

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086976.D
 Acq On : 12 Jun 2025 14:45
 Operator : JC\MD
 Sample : Q2280-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RT-4643

Quant Time: Jun 13 01:28:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

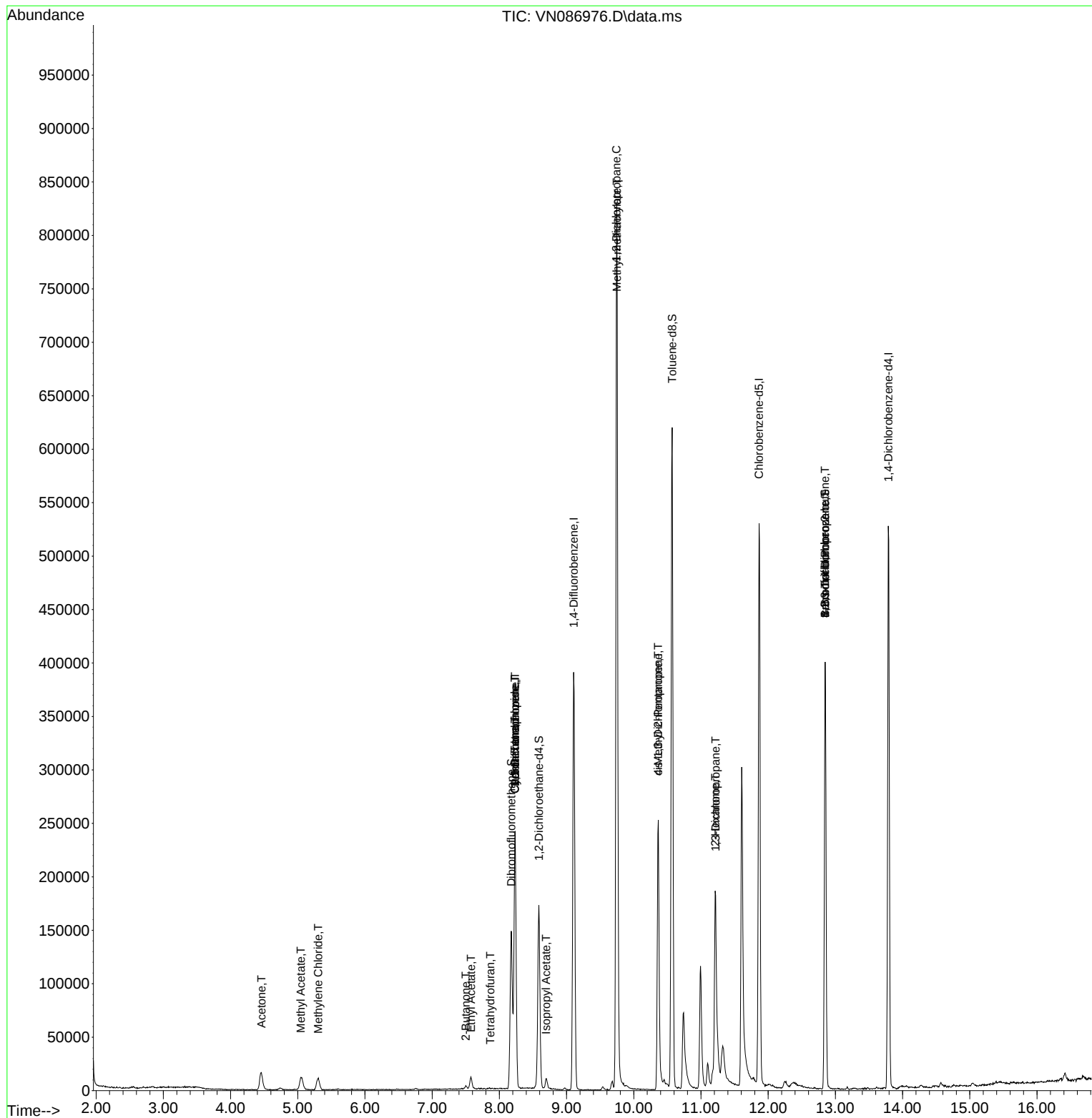
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	187546	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	366227	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	331625	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	155104	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	136177	54.231	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 108.460%		
35) Dibromofluoromethane	8.177	113	111986	51.598	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 103.200%		
50) Toluene-d8	10.571	98	451690	52.572	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.140%		
62) 4-Bromofluorobenzene	12.847	95	159349	49.920	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 99.840%		
Target Compounds						Qvalue
16) Acetone	4.459	43	32636	24.508	ug/l	99
18) Methyl Acetate	5.047	43	27184	7.005	ug/l	100
20) Methylene Chloride	5.306	84	9389	3.766	ug/l	99
25) 2-Butanone	7.500	43	4629	2.139	ug/l	94
29) Tetrahydrofuran	7.865	42	380	0.269	ug/l #	31
31) Cyclohexane	8.230	56	3423	0.840	ug/l #	1
36) 1,1-Dichloropropene	8.235	75	14230	4.400	ug/l #	46
37) Ethyl Acetate	7.577	43	16833	4.089	ug/l	98
38) Carbon Tetrachloride	8.230	117	18117	5.706	ug/l #	18
43) Isopropyl Acetate	8.694	43	11144	1.687	ug/l	93
45) 1,2-Dichloropropane	9.741	63	1233	0.479	ug/l #	43
48) Methyl methacrylate	9.747	41	70985	23.340	ug/l #	34
51) 4-Methyl-2-Pentanone	10.365	43	98406	24.738	ug/l #	45
54) cis-1,3-Dichloropropene	10.365	75	58865	13.993	ug/l #	55
57) 1,3-Dichloropropane	11.218	76	2998	0.695	ug/l #	43
59) 2-Hexanone	11.212	43	32090	12.524	ug/l #	52
71) Bromoform	12.847	173	855	0.491	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	74051	20.085	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	74051	46.235	ug/l #	16

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

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Quant Time: Jun 13 01:28:28 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

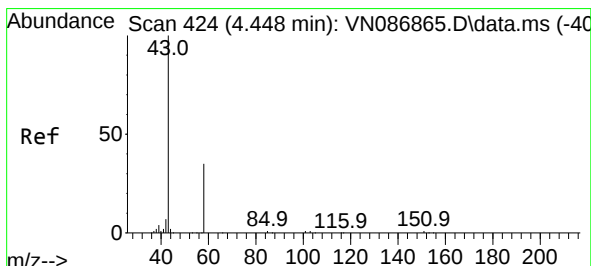
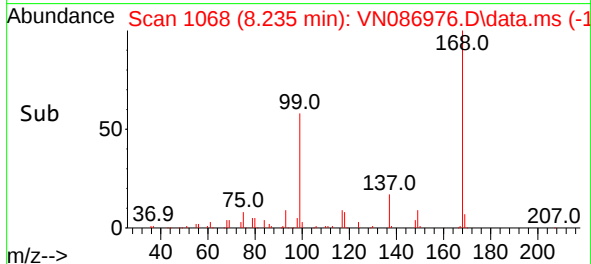
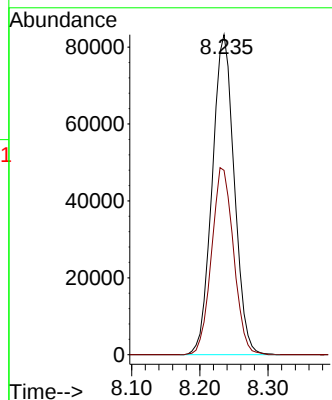
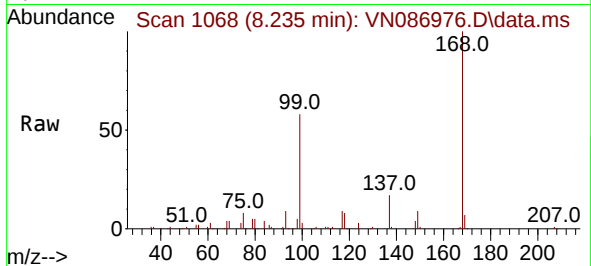




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

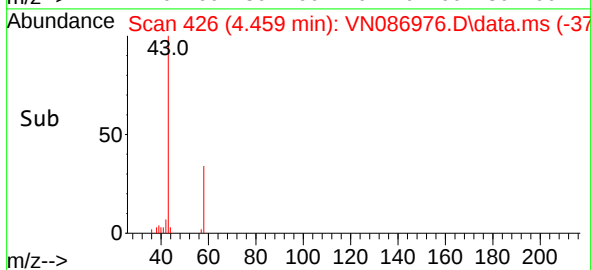
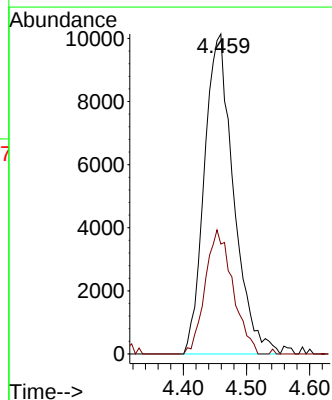
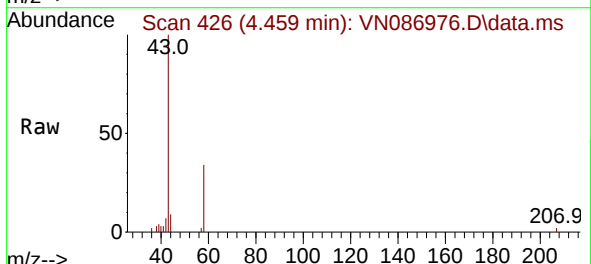
Instrument :
MSVOA_N
ClientSampleId :
RT-4643

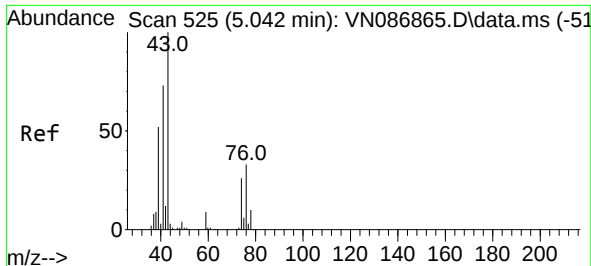
Tgt Ion:168 Resp: 187546
Ion Ratio Lower Upper
168 100
99 57.6 49.1 73.7



#16
Acetone
Concen: 24.508 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

Tgt Ion: 43 Resp: 32636
Ion Ratio Lower Upper
43 100
58 34.4 28.0 42.0

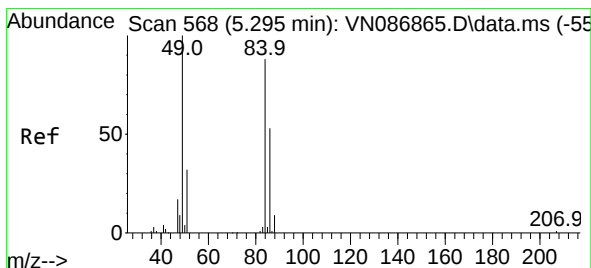
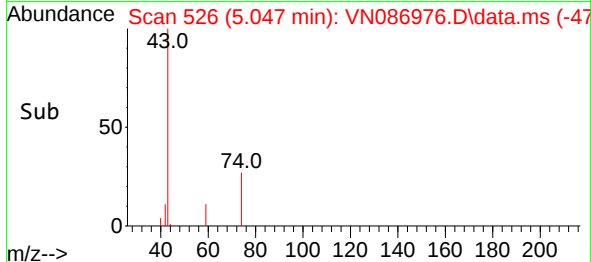
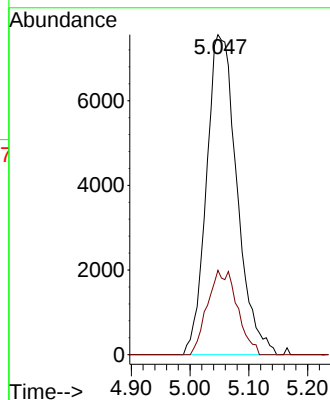
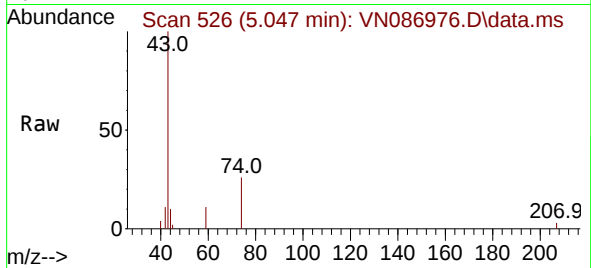




#18
Methyl Acetate
Concen: 7.005 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

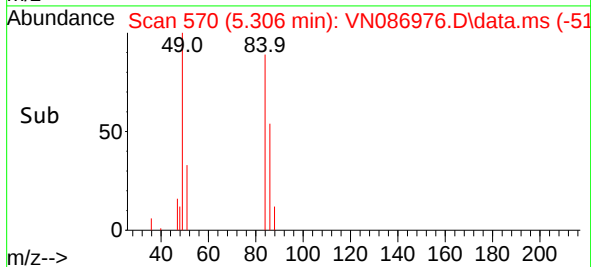
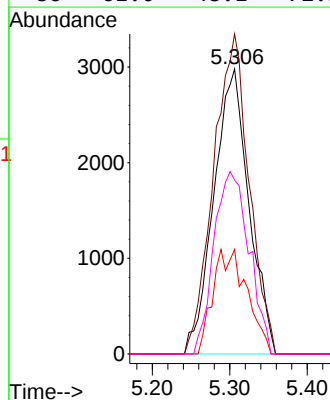
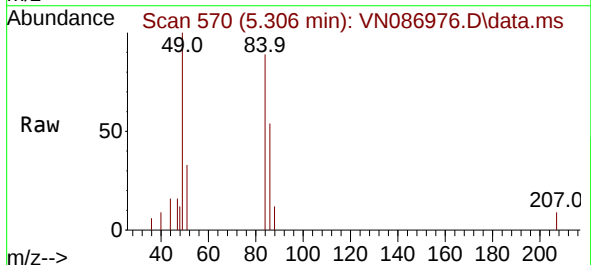
Instrument :
MSVOA_N
ClientSampleId :
RT-4643

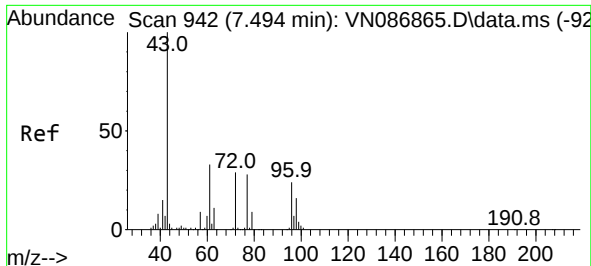
Tgt Ion: 43 Resp: 27184
Ion Ratio Lower Upper
43 100
74 25.8 20.7 31.1



#20
Methylene Chloride
Concen: 3.766 ug/l
RT: 5.306 min Scan# 570
Delta R.T. 0.012 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

Tgt Ion: 84 Resp: 9389
Ion Ratio Lower Upper
84 100
49 112.3 90.5 135.7
51 36.7 28.5 42.7
86 61.0 48.1 72.1

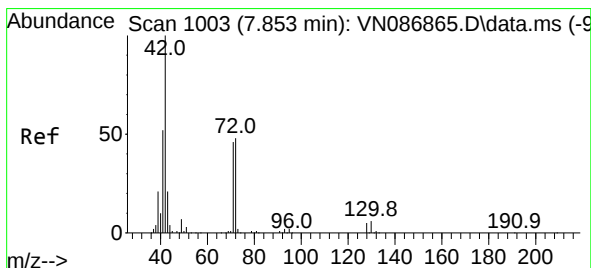
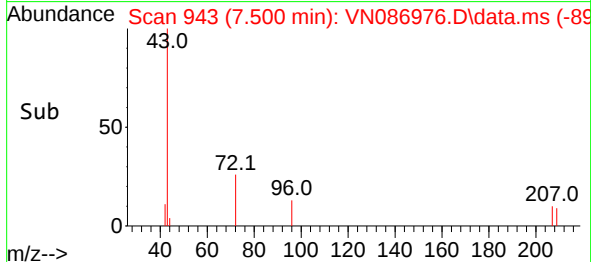
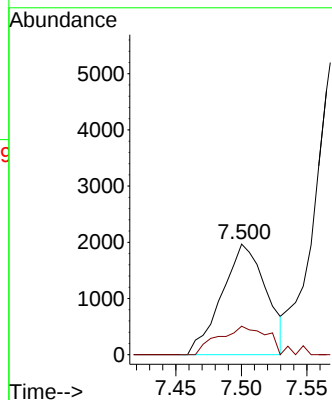
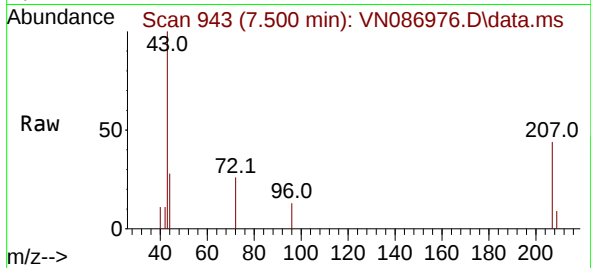




#25
2-Butanone
Concen: 2.139 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

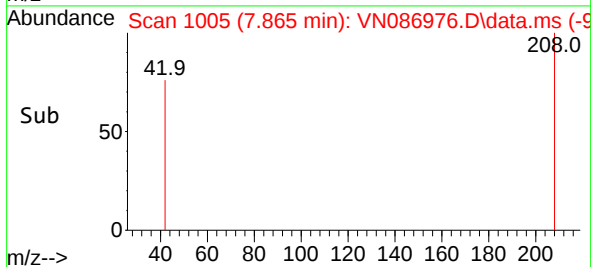
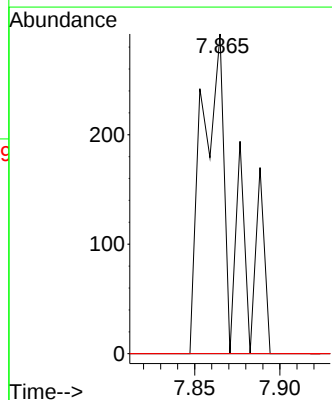
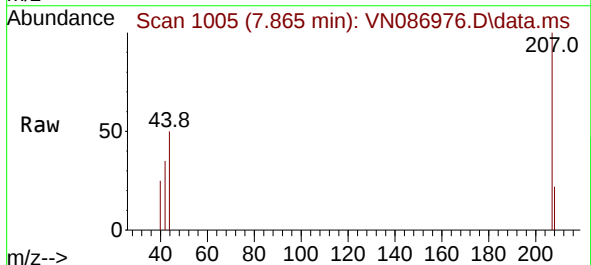
Instrument :
MSVOA_N
ClientSampleId :
RT-4643

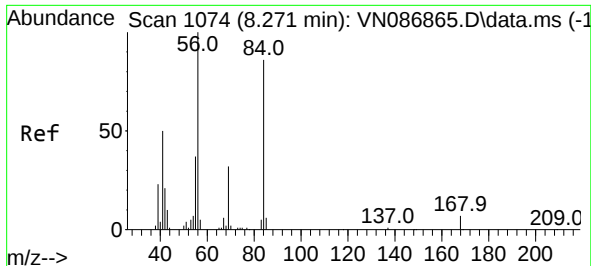
Tgt Ion: 43 Resp: 4629
Ion Ratio Lower Upper
43 100
72 25.8 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.269 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.012 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

Tgt Ion: 42 Resp: 380
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 0.0 35.6 53.4#

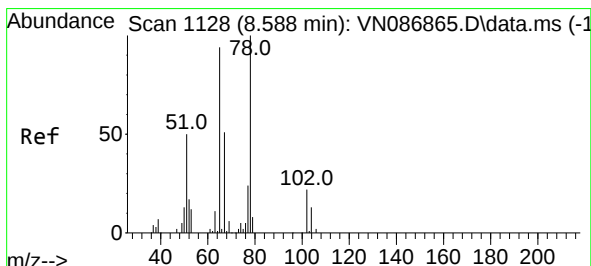
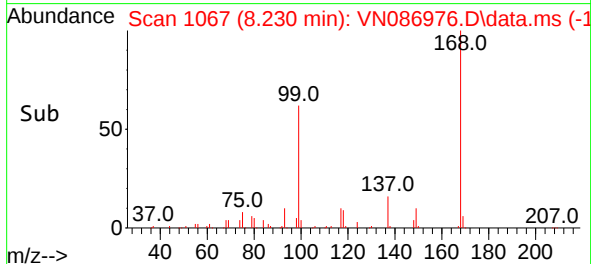
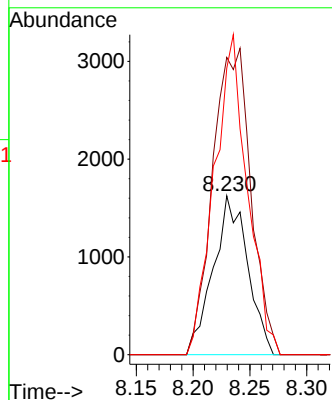
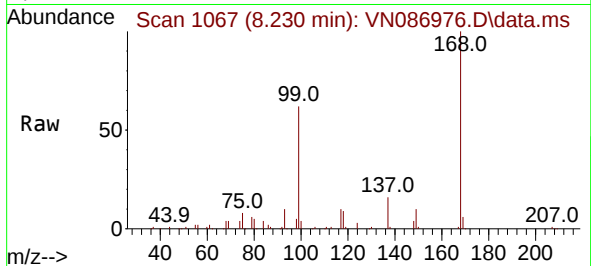




#31
Cyclohexane
Concen: 0.840 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

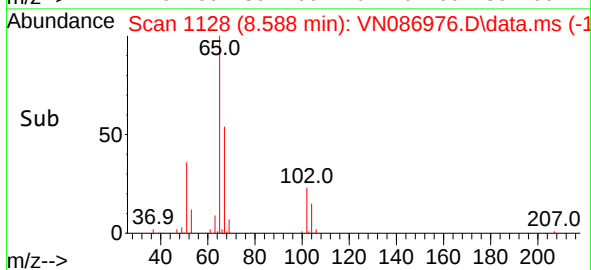
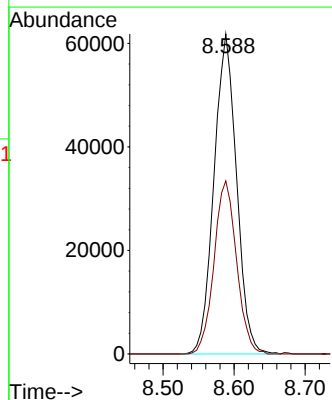
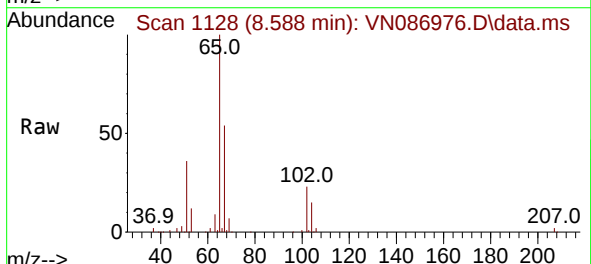
Instrument :
MSVOA_N
ClientSampleId :
RT-4643

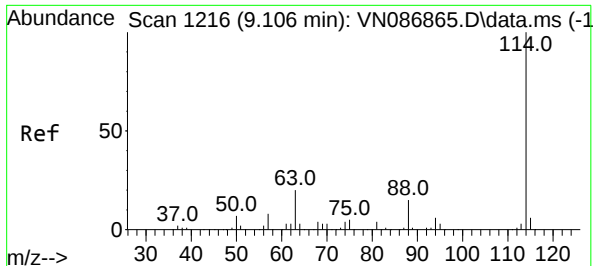
Tgt Ion: 56 Resp: 3423
Ion Ratio Lower Upper
56 100
69 187.0 25.4 38.0#
84 180.2 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 54.231 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

Tgt Ion: 65 Resp: 136177
Ion Ratio Lower Upper
65 100
67 54.0 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: VN086976.D

Acq: 12 Jun 2025 14:45

Instrument :

MSVOA_N

ClientSampleId :

RT-4643

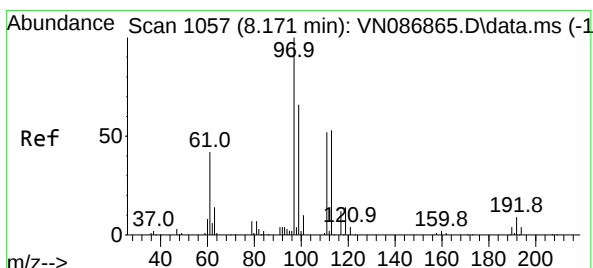
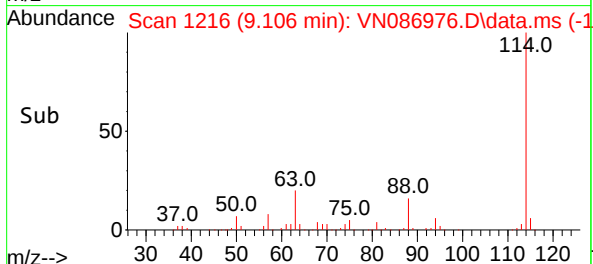
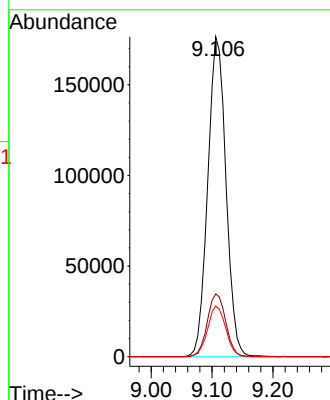
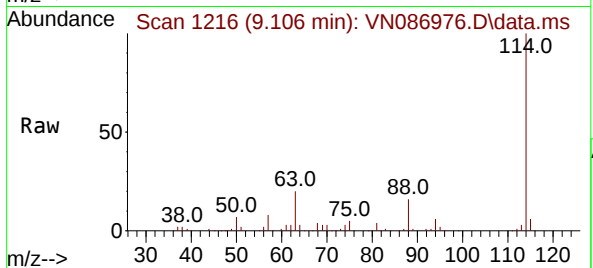
Tgt Ion:114 Resp: 366227

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 15.9 0.0 30.2



#35

Dibromofluoromethane

Concen: 51.598 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086976.D

Acq: 12 Jun 2025 14:45

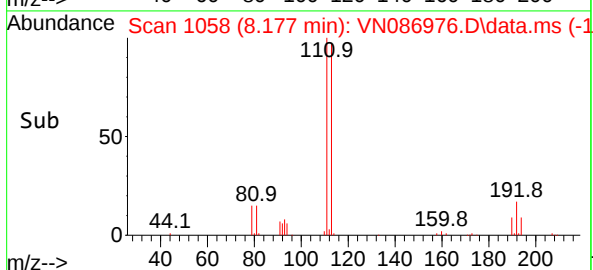
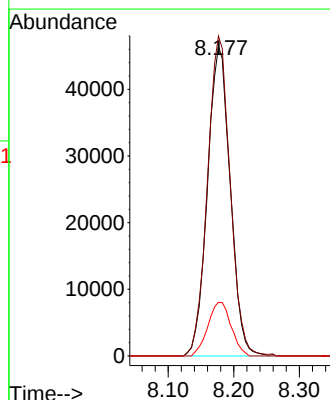
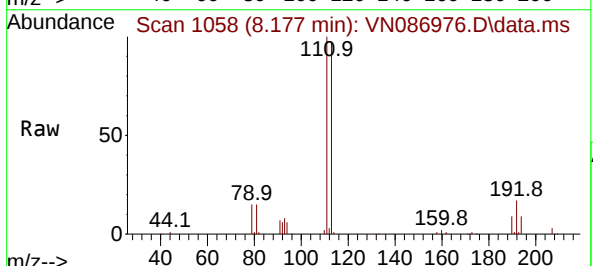
Tgt Ion:113 Resp: 111986

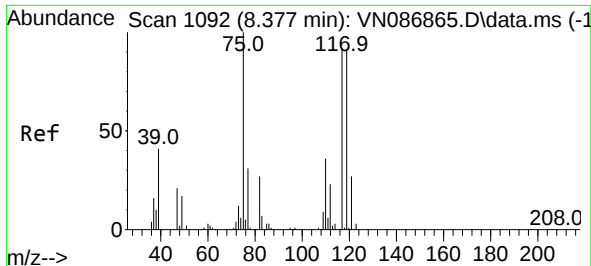
Ion Ratio Lower Upper

113 100

111 102.9 84.2 126.2

192 17.7 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.400 ug/l

RT: 8.235 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN086976.D

Acq: 12 Jun 2025 14:45

Instrument :

MSVOA_N

ClientSampleId :

RT-4643

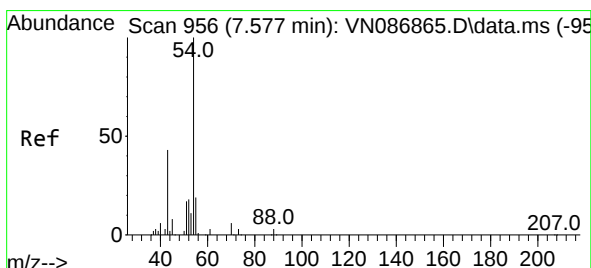
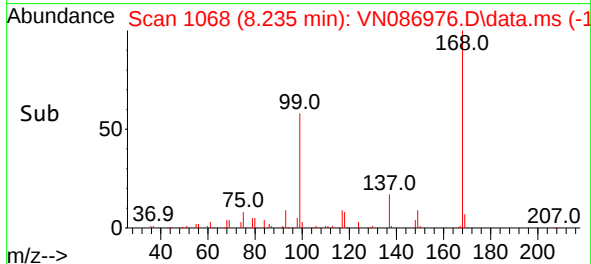
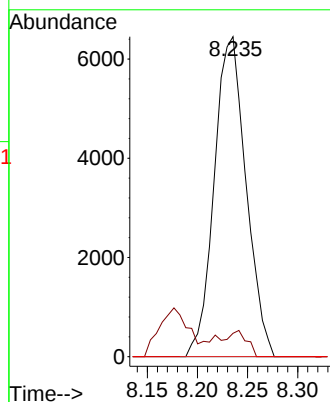
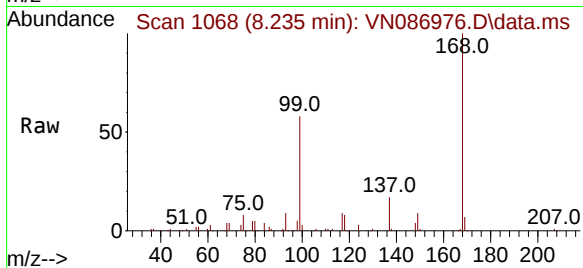
Tgt Ion: 75 Resp: 14230

Ion Ratio Lower Upper

75 100

110 4.9 17.6 52.9#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 4.089 ug/l

RT: 7.577 min Scan# 956

Delta R.T. -0.000 min

Lab File: VN086976.D

Acq: 12 Jun 2025 14:45

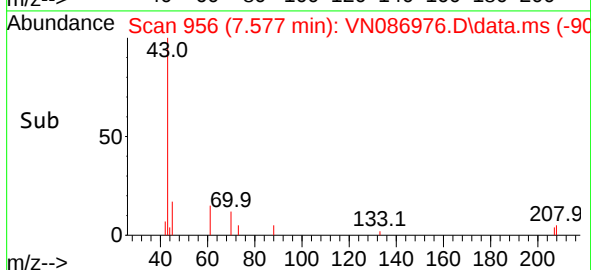
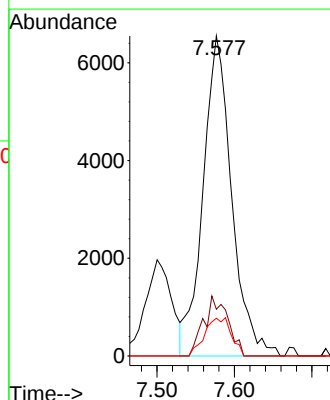
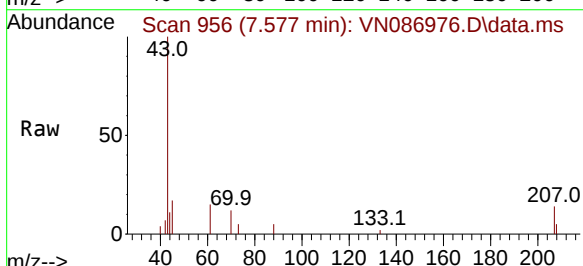
Tgt Ion: 43 Resp: 16833

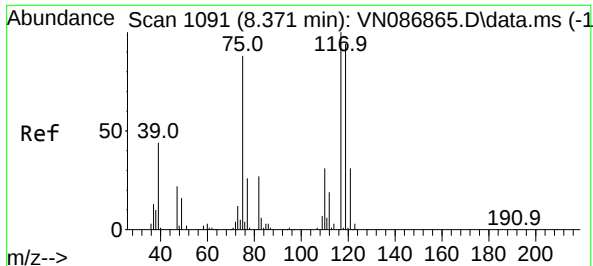
Ion Ratio Lower Upper

43 100

61 15.7 12.1 18.1

70 11.0 9.8 14.6

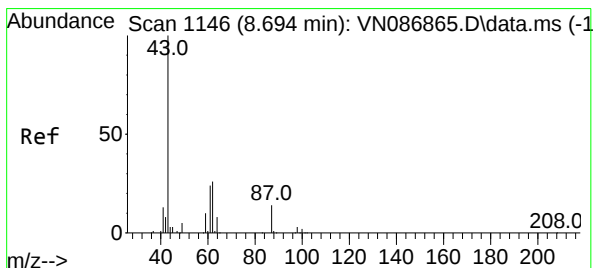
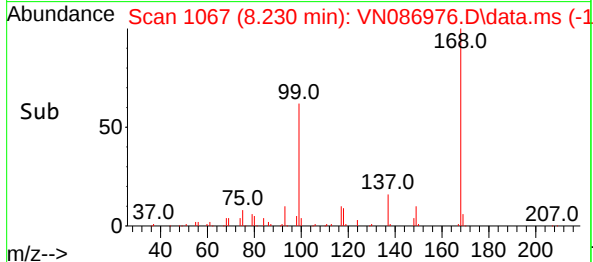
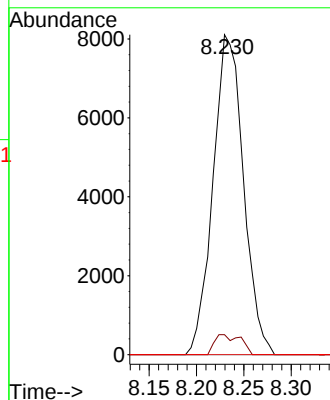
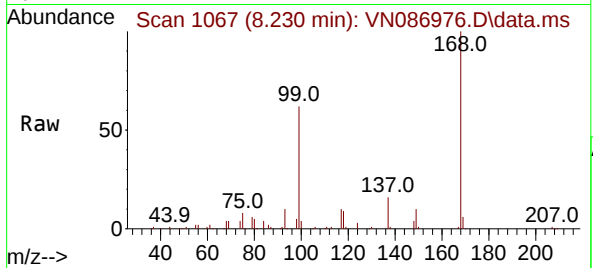




#38
Carbon Tetrachloride
Concen: 5.706 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

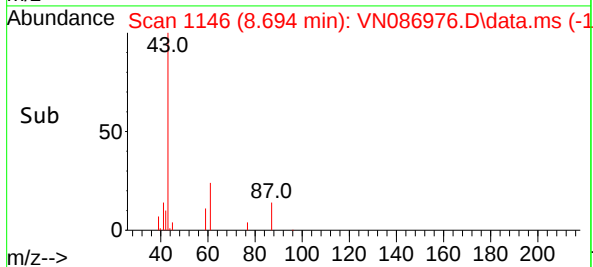
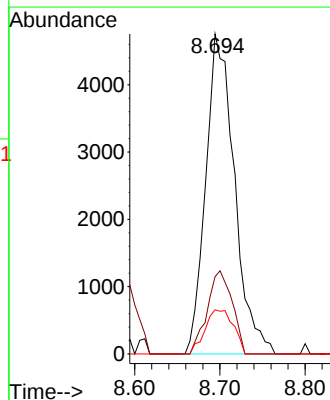
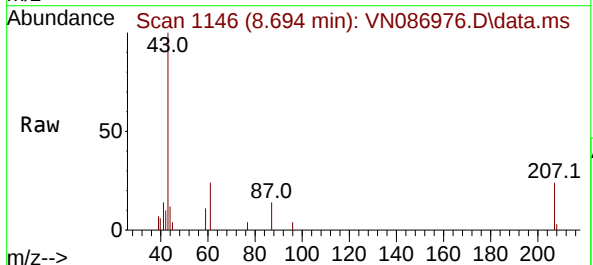
Instrument :
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ClientSampleId :
RT-4643

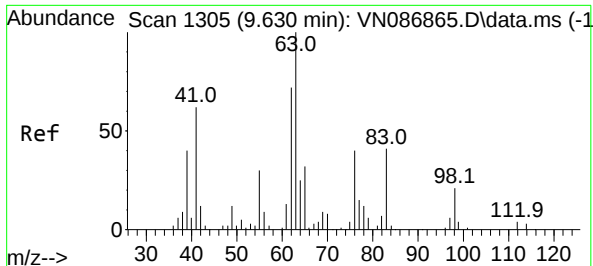
Tgt Ion:117 Resp: 18117
Ion Ratio Lower Upper
117 100
119 6.2 75.0 112.6#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.687 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

Tgt Ion: 43 Resp: 11144
Ion Ratio Lower Upper
43 100
61 22.6 22.1 33.1
87 13.6 11.8 17.6





#45

1,2-Dichloropropane

Concen: 0.479 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN086976.D

Acq: 12 Jun 2025 14:45

Instrument :

MSVOA_N

ClientSampleId :

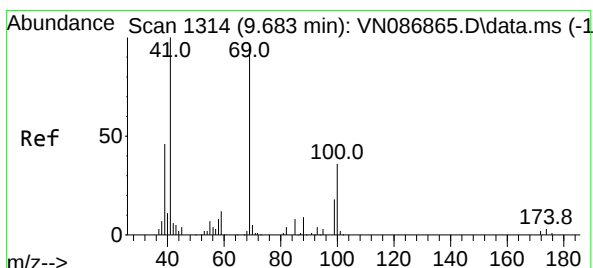
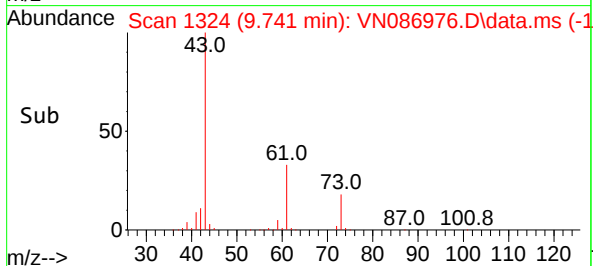
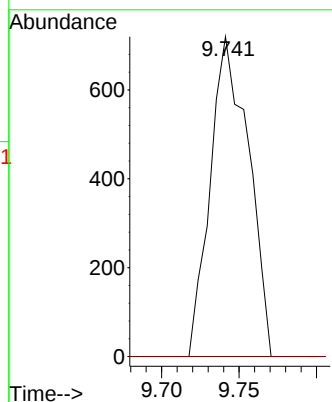
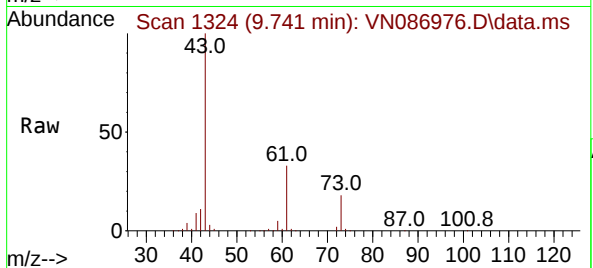
RT-4643

Tgt Ion: 63 Resp: 1233

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 23.340 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN086976.D

Acq: 12 Jun 2025 14:45

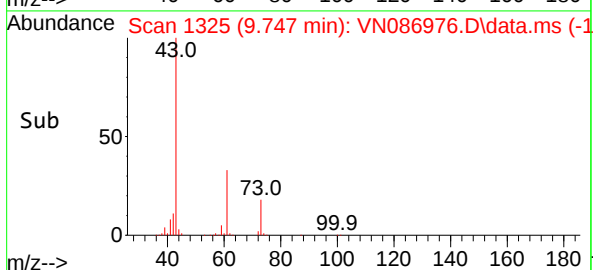
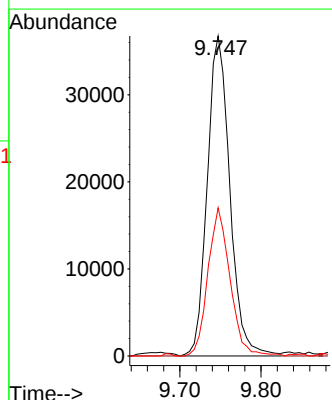
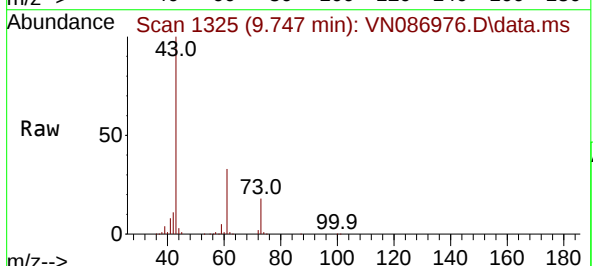
Tgt Ion: 41 Resp: 70985

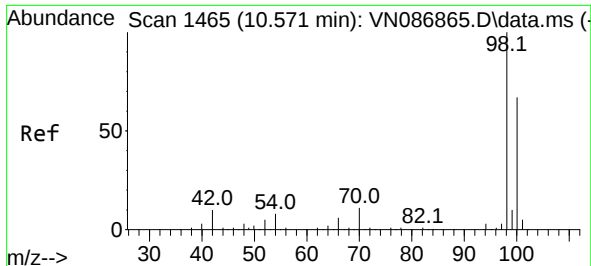
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 45.3 40.2 60.4

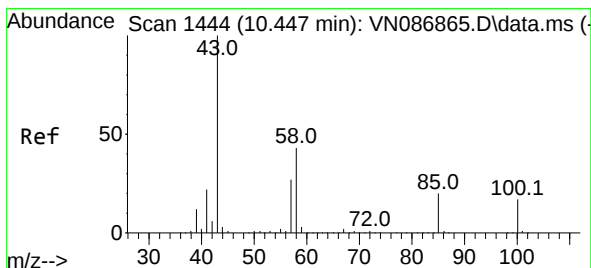
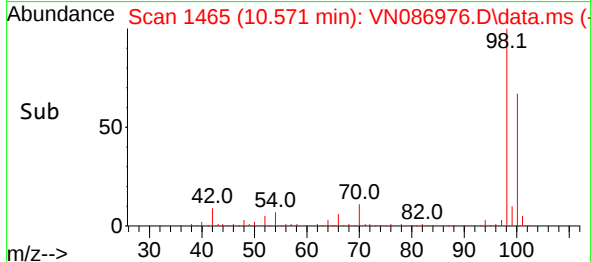
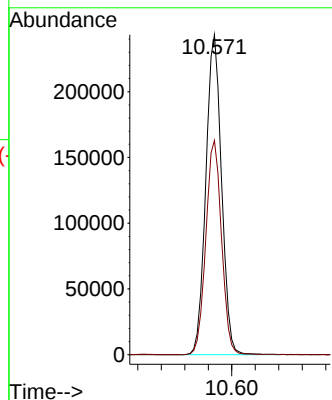
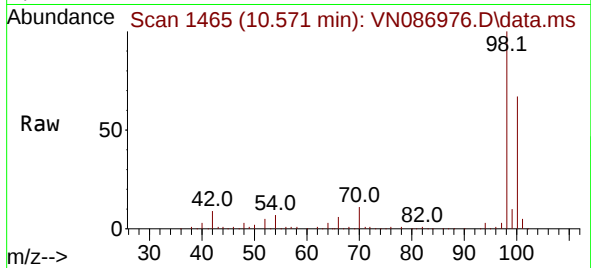




#50
Toluene-d8
Concen: 52.572 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

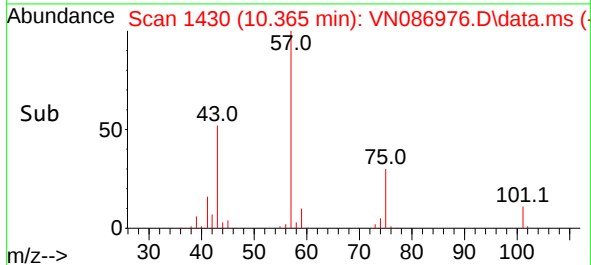
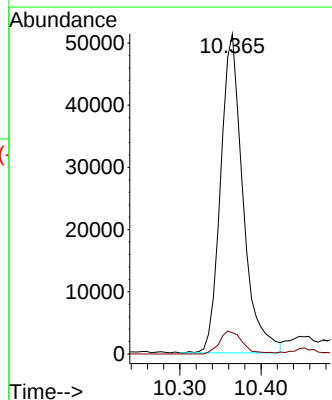
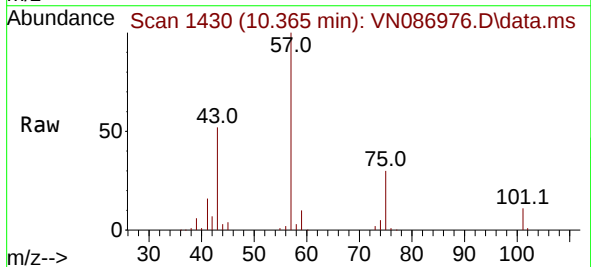
Instrument :
MSVOA_N
ClientSampleId :
RT-4643

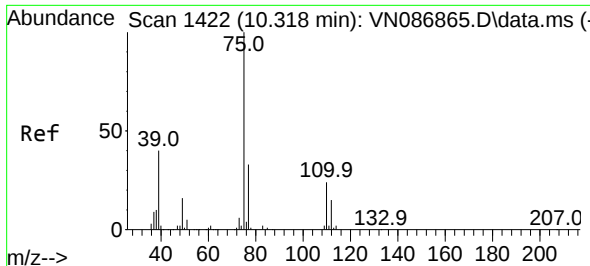
Tgt Ion: 98 Resp: 451690
Ion Ratio Lower Upper
98 100
100 67.0 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 24.738 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.083 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

Tgt Ion: 43 Resp: 98406
Ion Ratio Lower Upper
43 100
58 7.4 34.2 51.4#

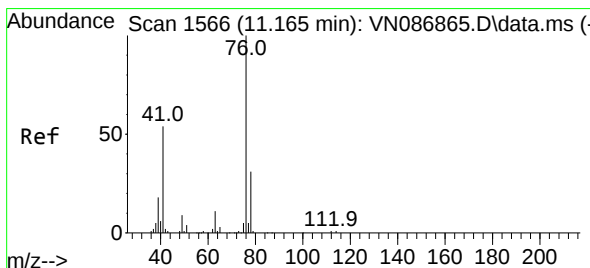
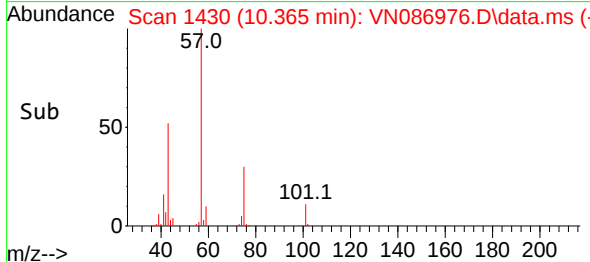
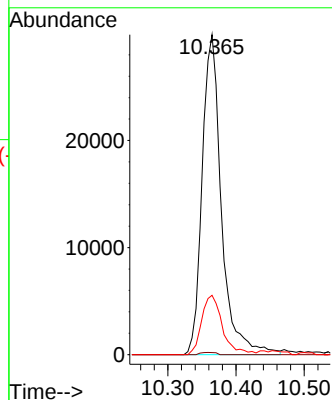
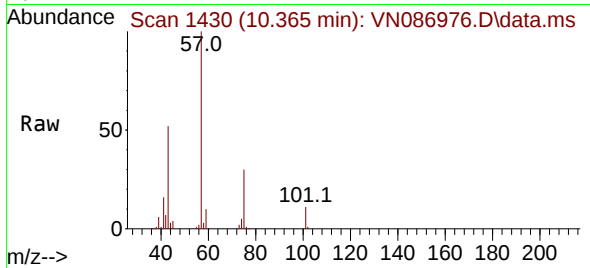




#54
cis-1,3-Dichloropropene
Concen: 13.993 ug/l
RT: 10.365 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

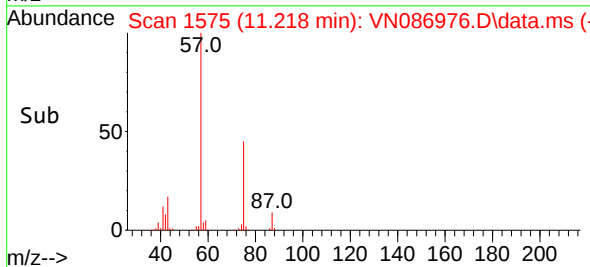
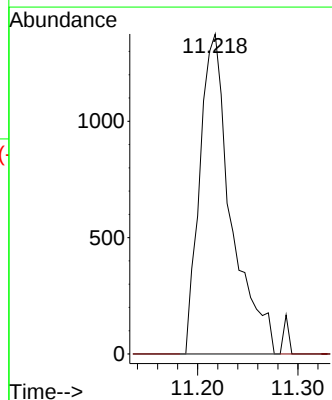
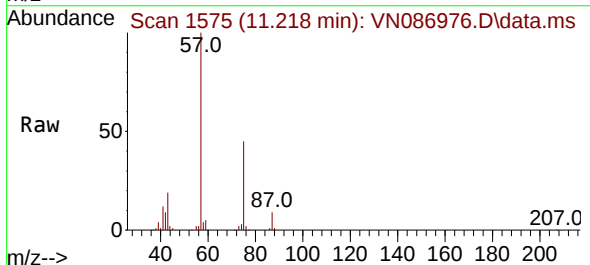
Instrument :
MSVOA_N
ClientSampleId :
RT-4643

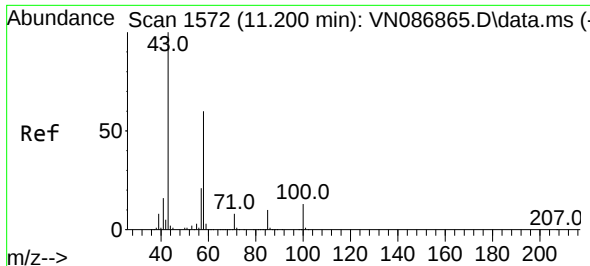
Tgt Ion: 75 Resp: 58865
Ion Ratio Lower Upper
75 100
77 0.7 26.2 39.4#
39 18.5 32.3 48.5#



#57
1,3-Dichloropropane
Concen: 0.695 ug/l
RT: 11.218 min Scan# 1575
Delta R.T. 0.053 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

Tgt Ion: 76 Resp: 2998
Ion Ratio Lower Upper
76 100
78 0.0 25.3 37.9#

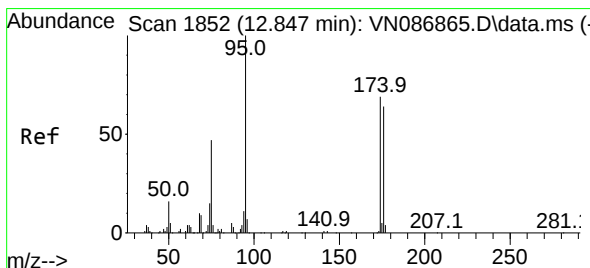
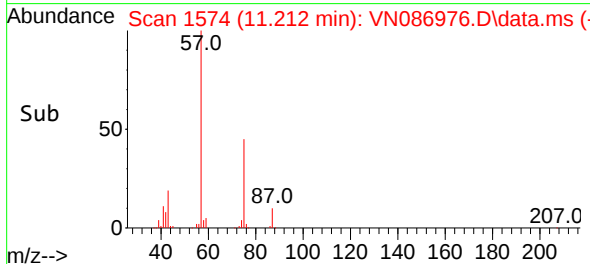
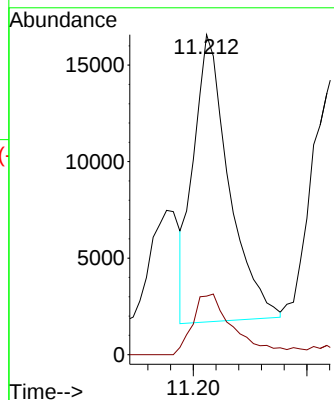
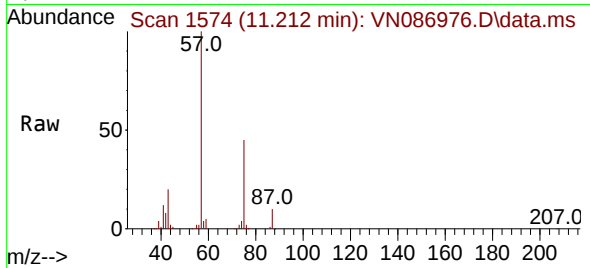




#59
2-Hexanone
Concen: 12.524 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

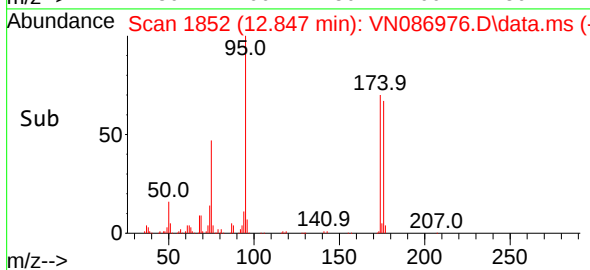
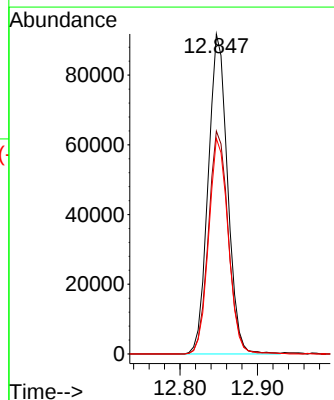
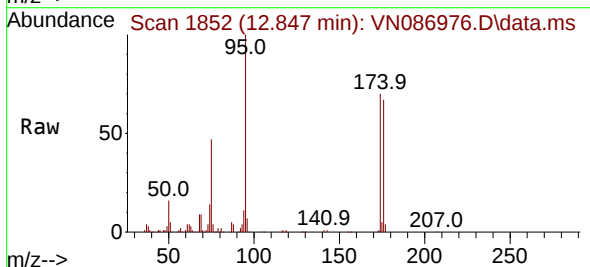
Instrument :
MSVOA_N
ClientSampleId :
RT-4643

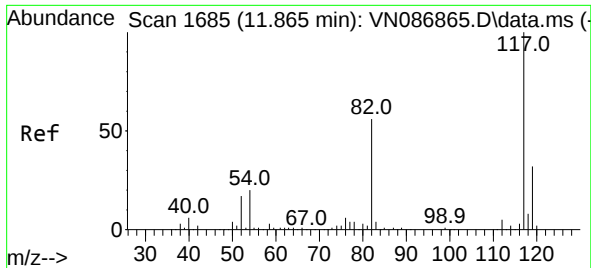
Tgt Ion: 43 Resp: 32090
Ion Ratio Lower Upper
43 100
58 24.3 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 49.920 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

Tgt Ion: 95 Resp: 159349
Ion Ratio Lower Upper
95 100
174 71.6 0.0 141.8
176 68.0 0.0 132.6

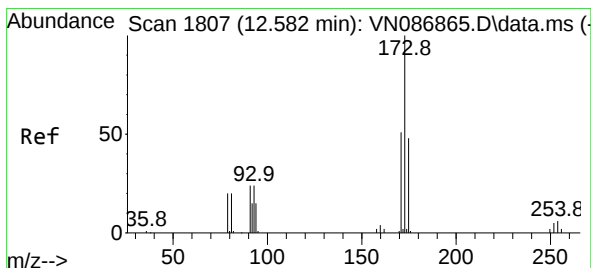
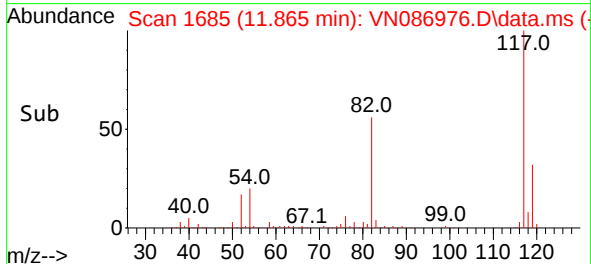
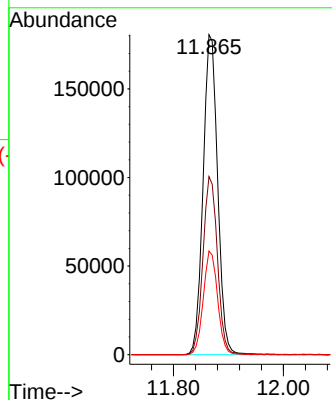
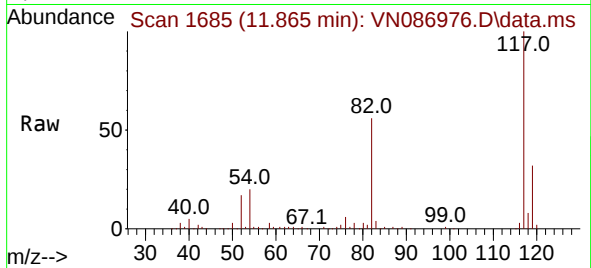




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

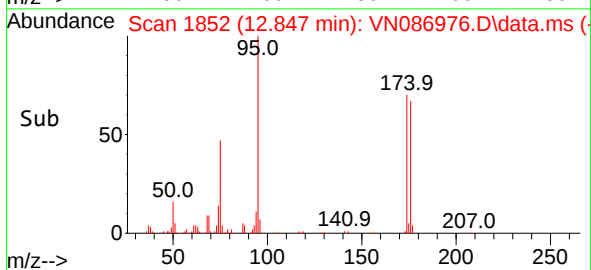
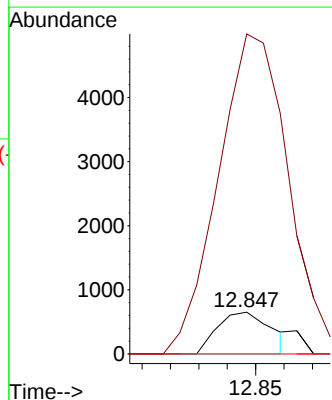
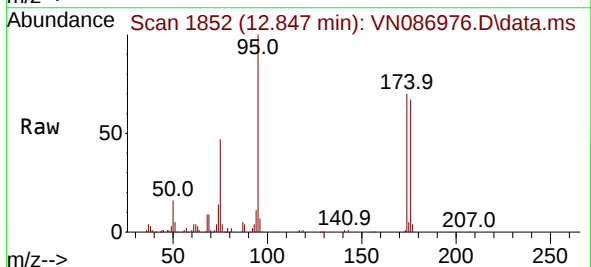
Instrument :
MSVOA_N
ClientSampleId :
RT-4643

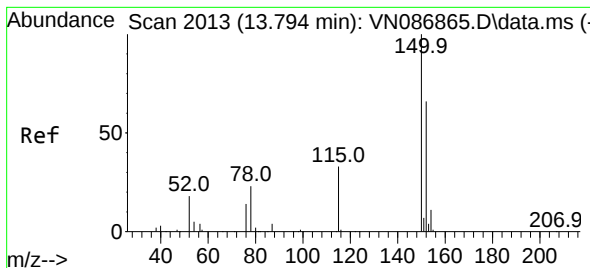
Tgt Ion:117 Resp: 331625
Ion Ratio Lower Upper
117 100
82 55.6 44.6 67.0
119 32.4 25.5 38.3



#71
Bromoform
Concen: 0.491 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.264 min
Lab File: VN086976.D
Acq: 12 Jun 2025 14:45

Tgt Ion:173 Resp: 855
Ion Ratio Lower Upper
173 100
175 873.5 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: VN086976.D

Acq: 12 Jun 2025 14:45

Instrument :

MSVOA_N

ClientSampleId :

RT-4643

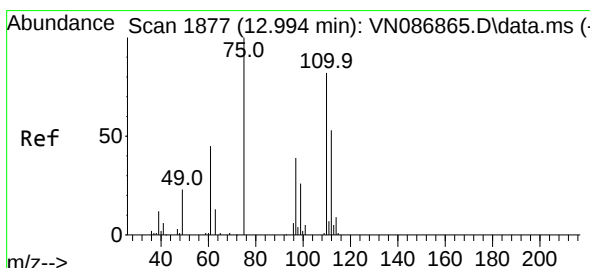
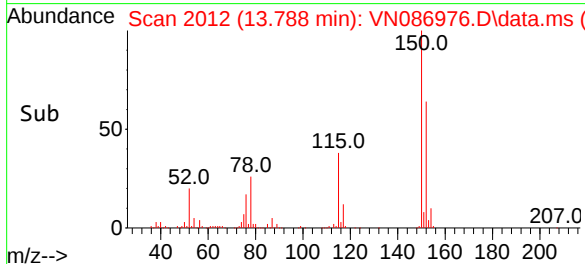
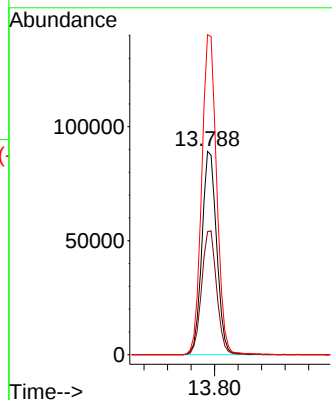
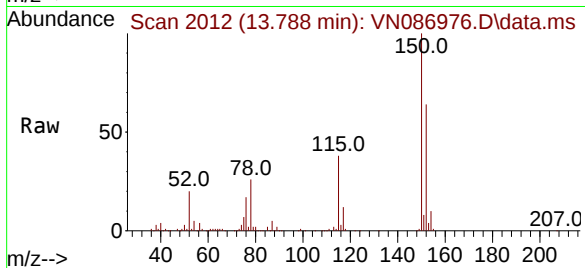
Tgt Ion:152 Resp: 155104

Ion Ratio Lower Upper

152 100

115 61.9 30.1 90.5

150 159.4 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 20.085 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN086976.D

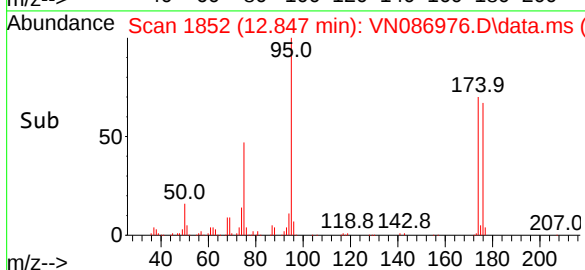
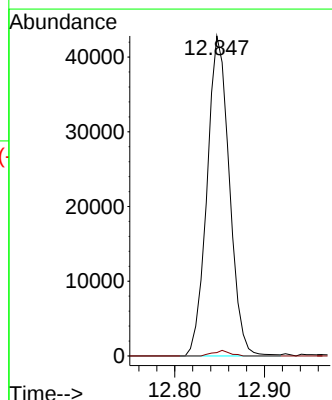
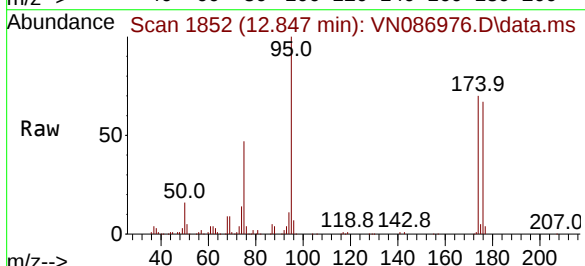
Acq: 12 Jun 2025 14:45

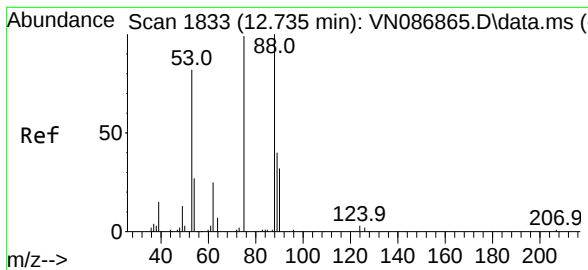
Tgt Ion: 75 Resp: 74051

Ion Ratio Lower Upper

75 100

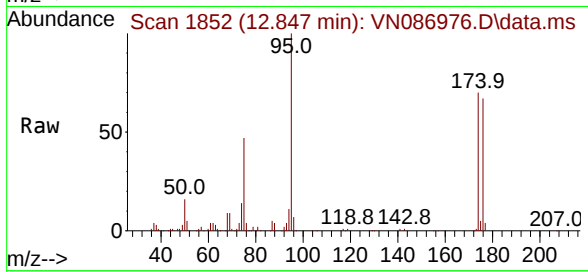
77 1.3 79.3 237.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 46.235 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086976.D
 Acq: 12 Jun 2025 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 RT-4643



Tgt Ion: 75 Resp: 74051
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.6 99.8#
 89 0.2 36.7 55.1#

