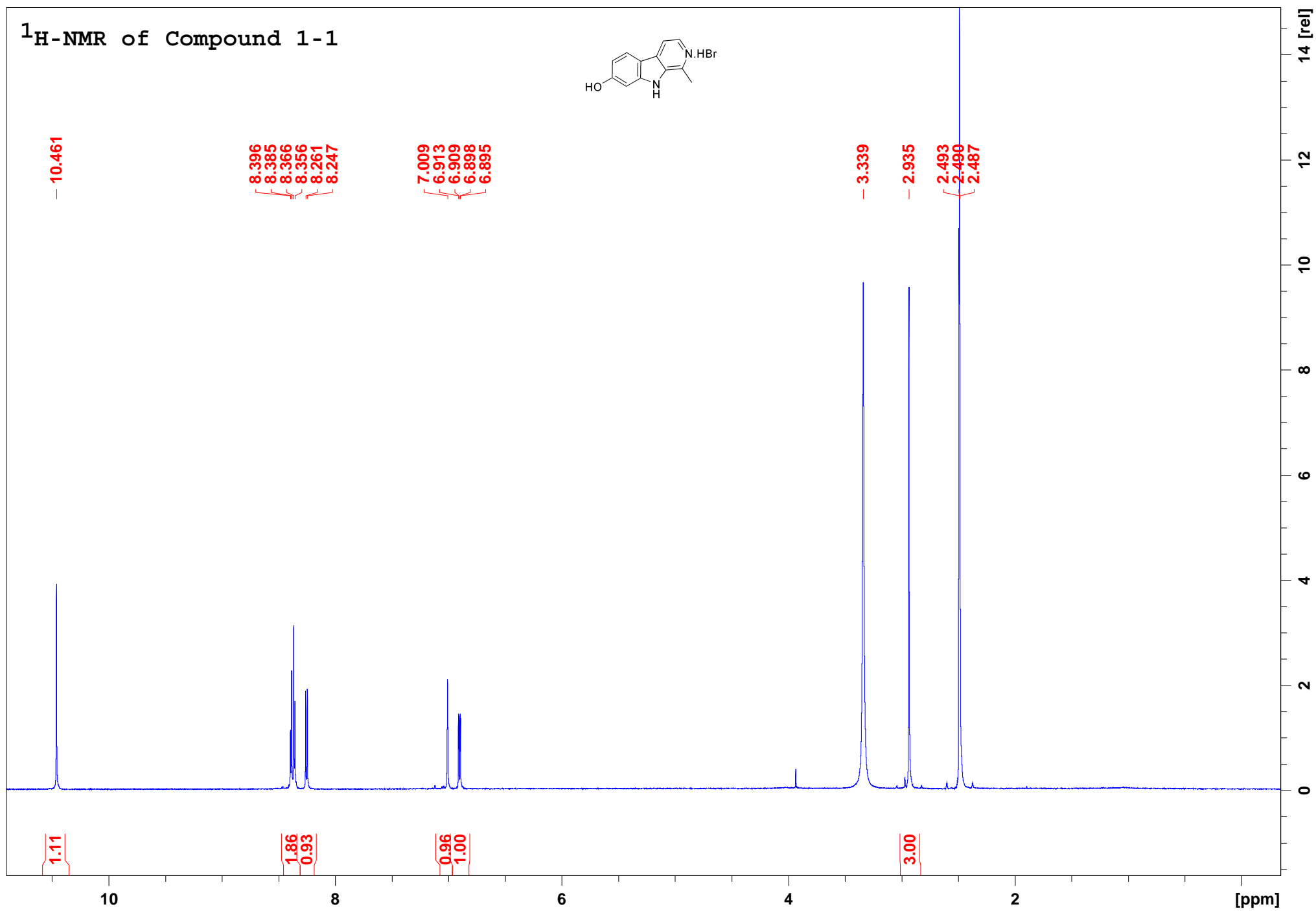
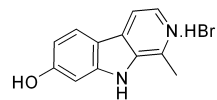
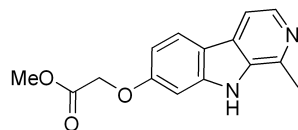


¹H-NMR of Compound 1-1



¹H-NMR of Compound 1-2a



8.085
8.076
7.978
7.963
7.774
7.765

6.971
6.967
6.890
6.886
6.875
6.872

4.910
4.792

3.804

3.313
3.310
3.308

2.735

0.88
0.82
0.91

0.84
0.80

1.61

2.22

3.20

8

6

4

2

[ppm]

[rel]

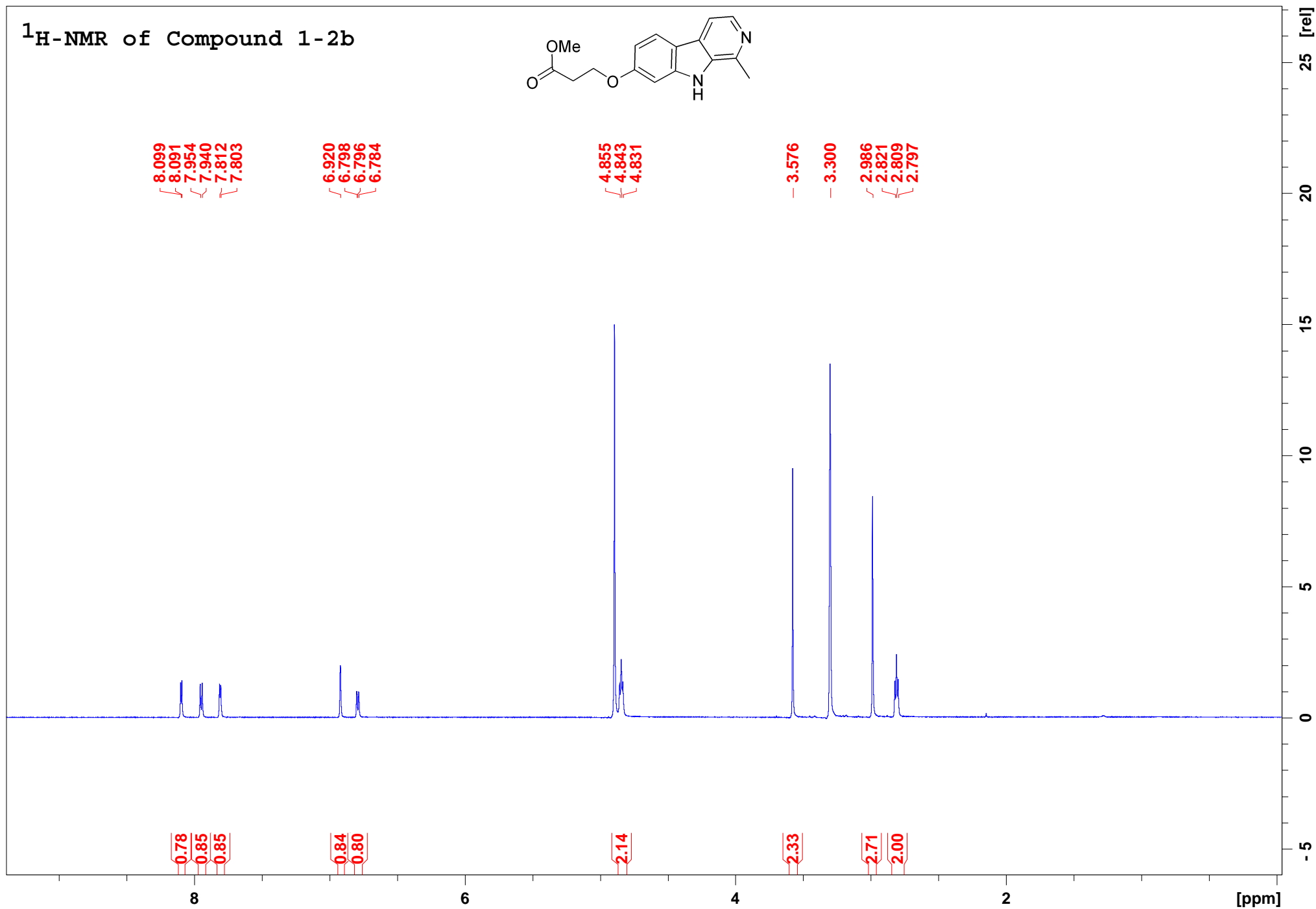
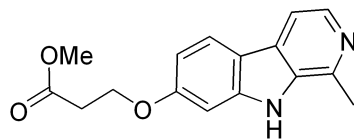
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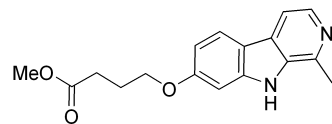
10

0

¹H-NMR of Compound 1-2b



¹H-NMR of Compound 1-2c



8.094
8.085
7.986
7.972
7.795
7.786

7.024
6.860
6.845

4.894

4.129
4.119
4.109

3.684

3.300

2.756
2.581
2.569
2.557

2.148
2.137
2.126

0.79
0.84
0.84

0.85
0.86

2.00

2.33

2.60
1.85

1.97

[ppm]

[rel]

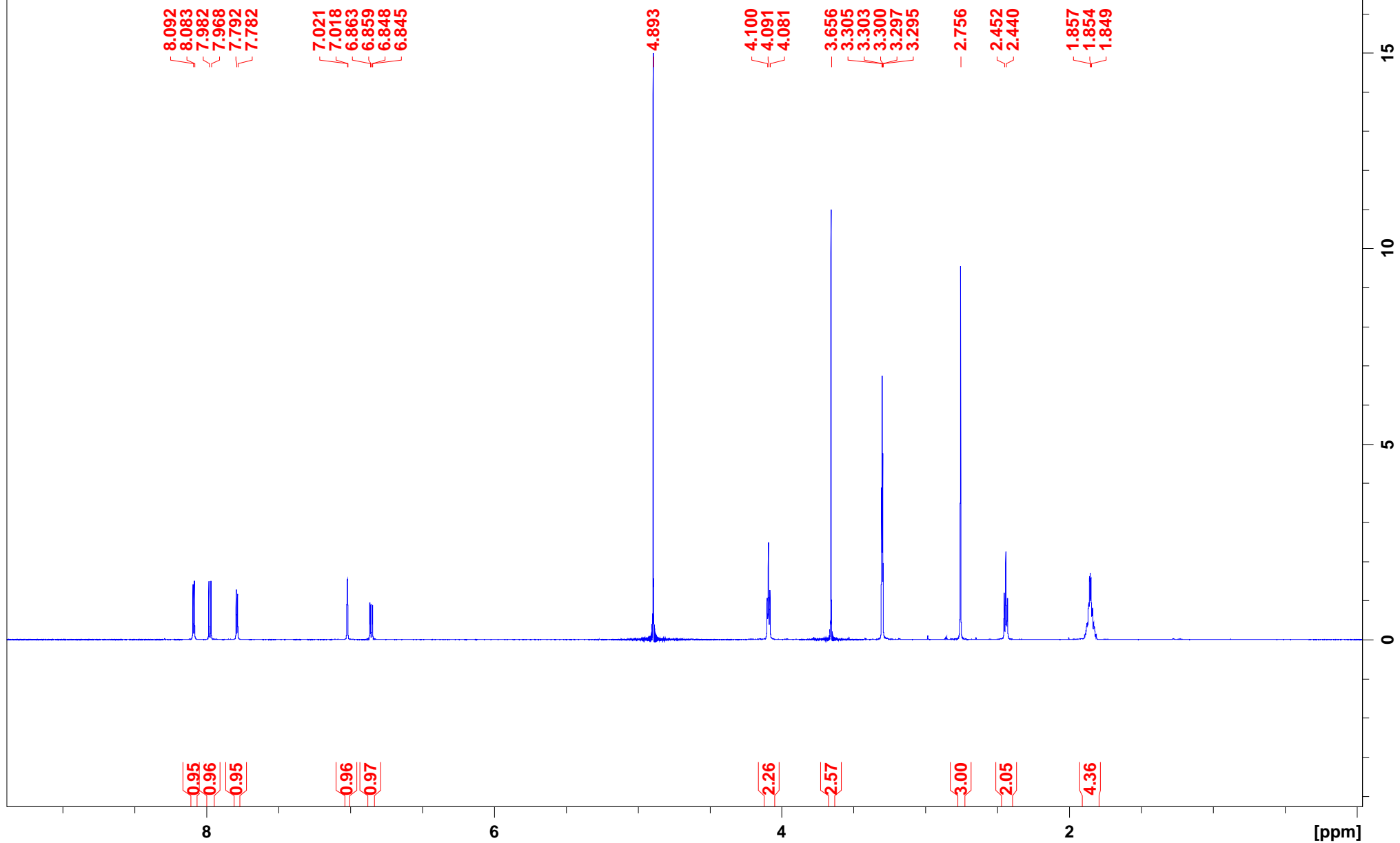
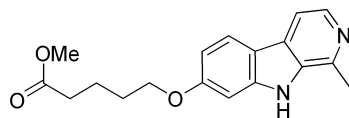
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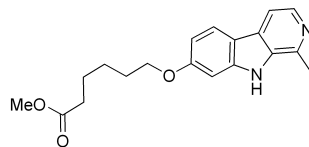
10

0

¹H-NMR of Compound 1-2d



¹H-NMR of Compound 1-2e



8.088
8.079
7.971
7.956
7.783
7.774

7.009
7.006
6.852
6.848
6.837
6.834

4.891

4.078
4.067
4.057

3.650

3.303
3.300
3.297

2.751

2.385
2.373
2.360

1.855
1.842
1.829
1.718

1.705
1.692
1.554
1.542

1.528

1.00
0.88
0.88

0.89
0.90

2.14

2.34

3.00

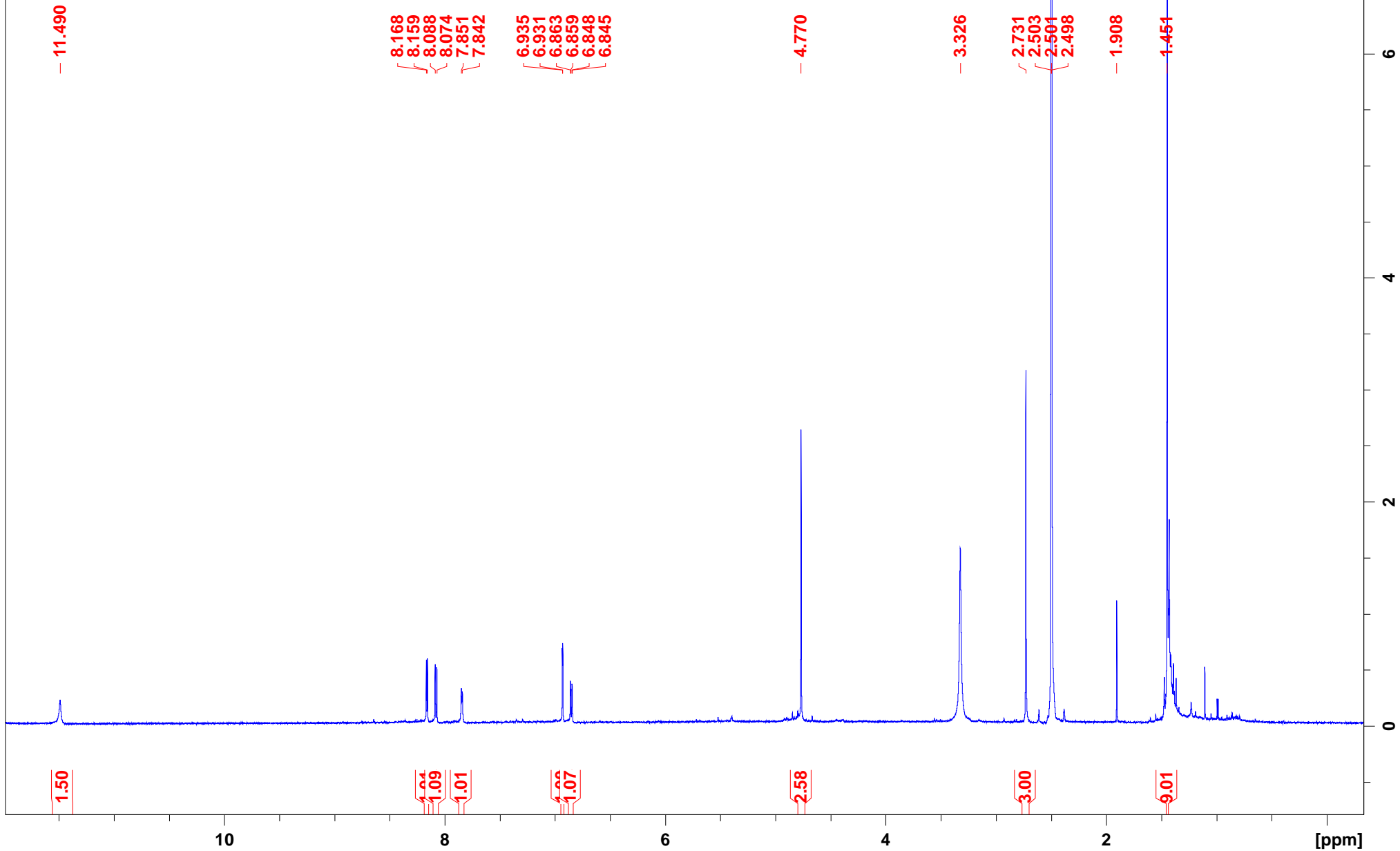
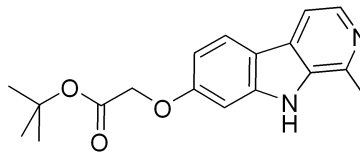
1.91

2.08
2.04
2.07

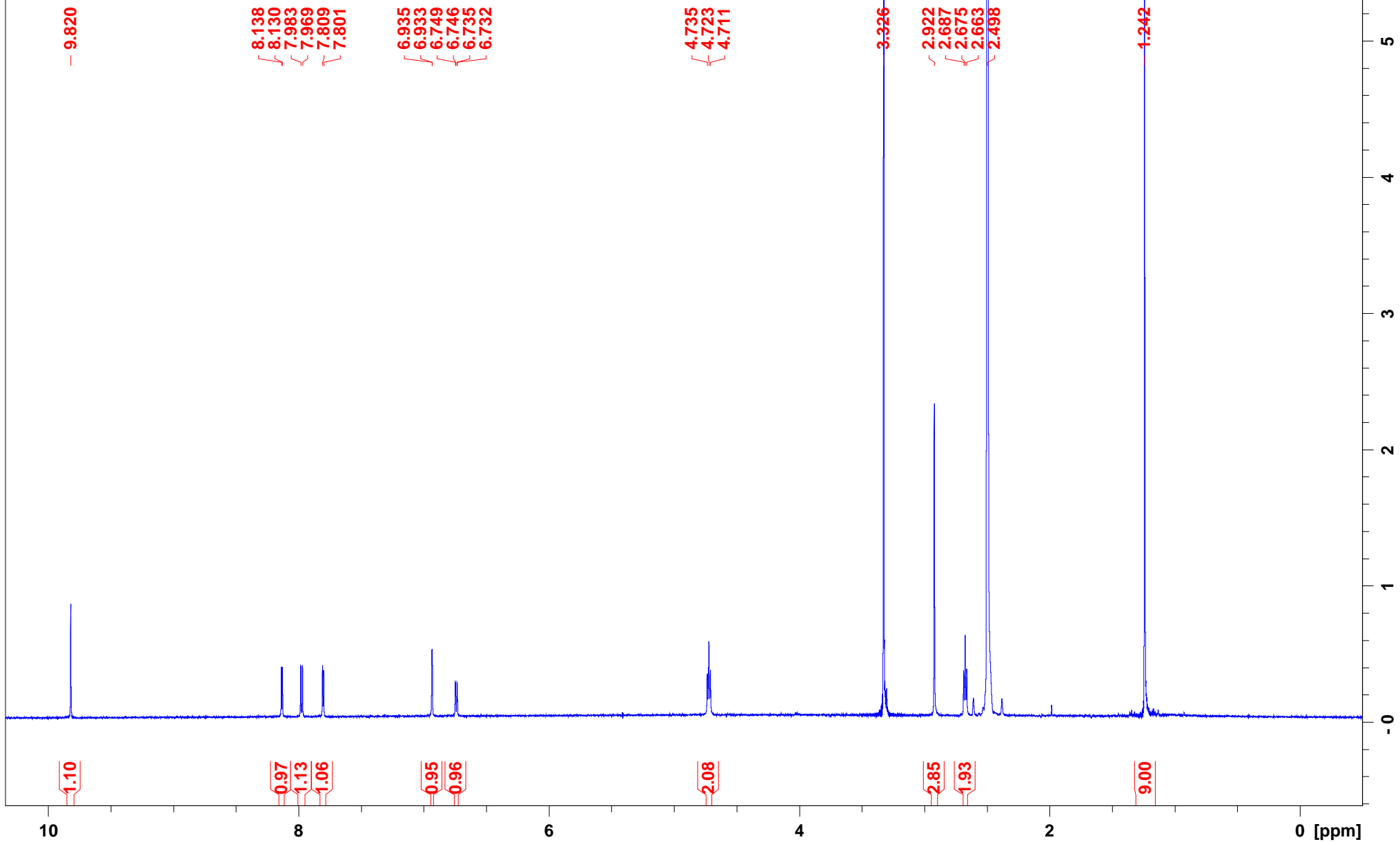
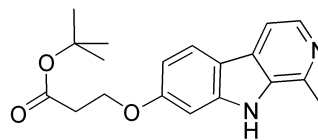
[ppm]

[rel]

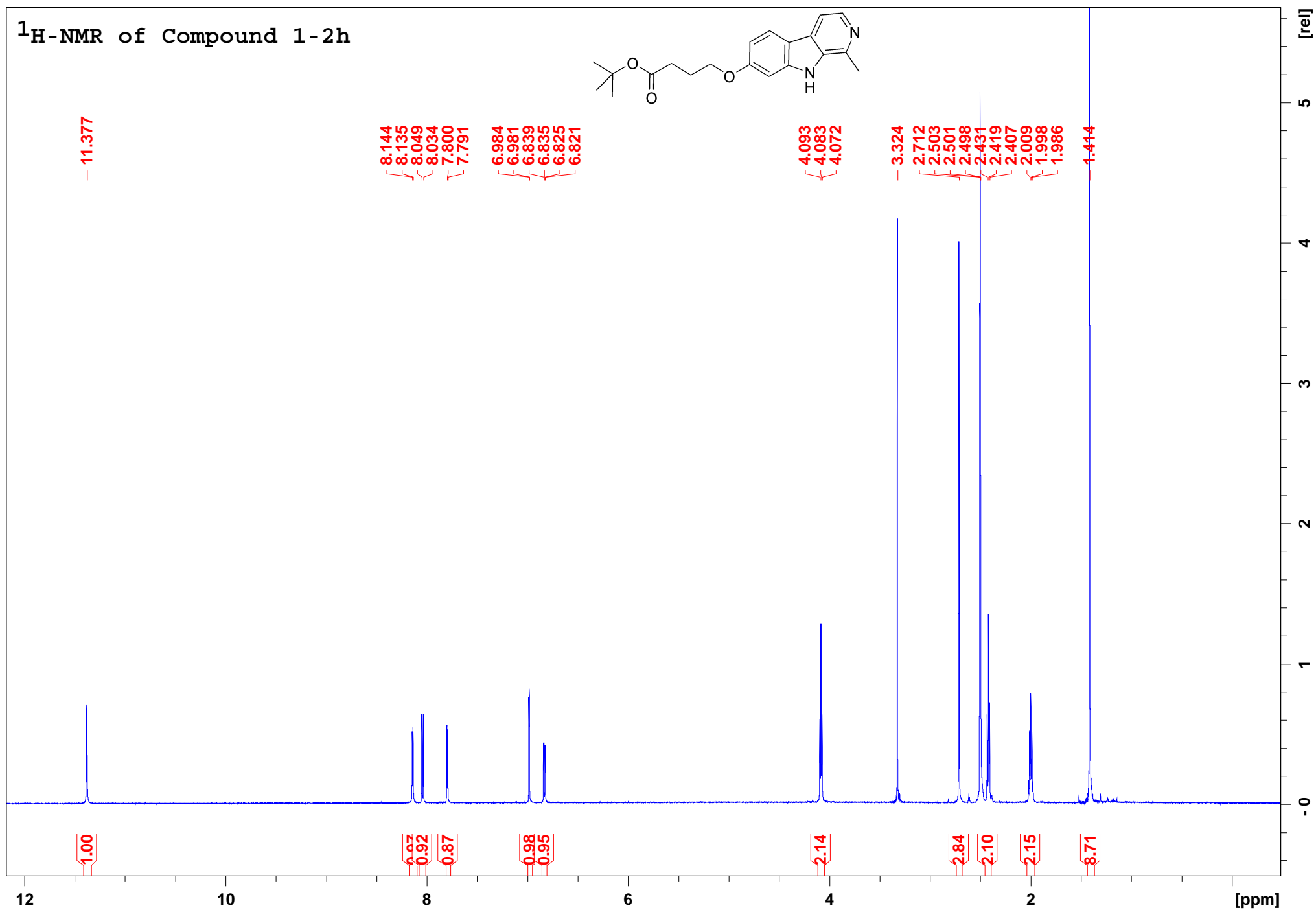
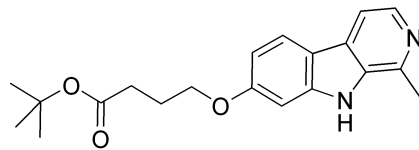
¹H-NMR of Compound 1-2f



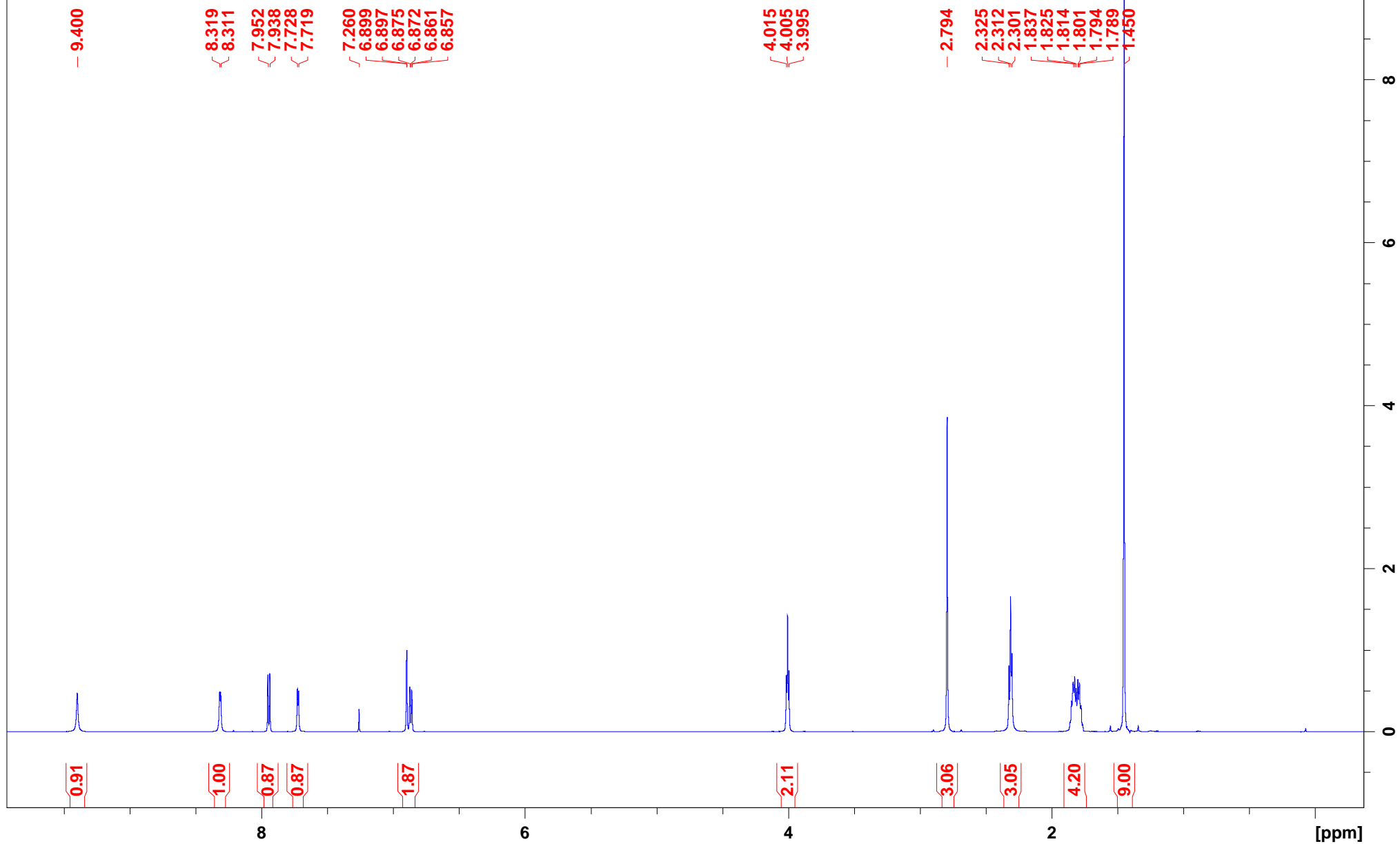
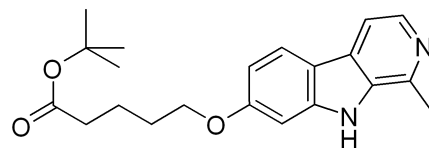
¹H-NMR of Compound 1-2g



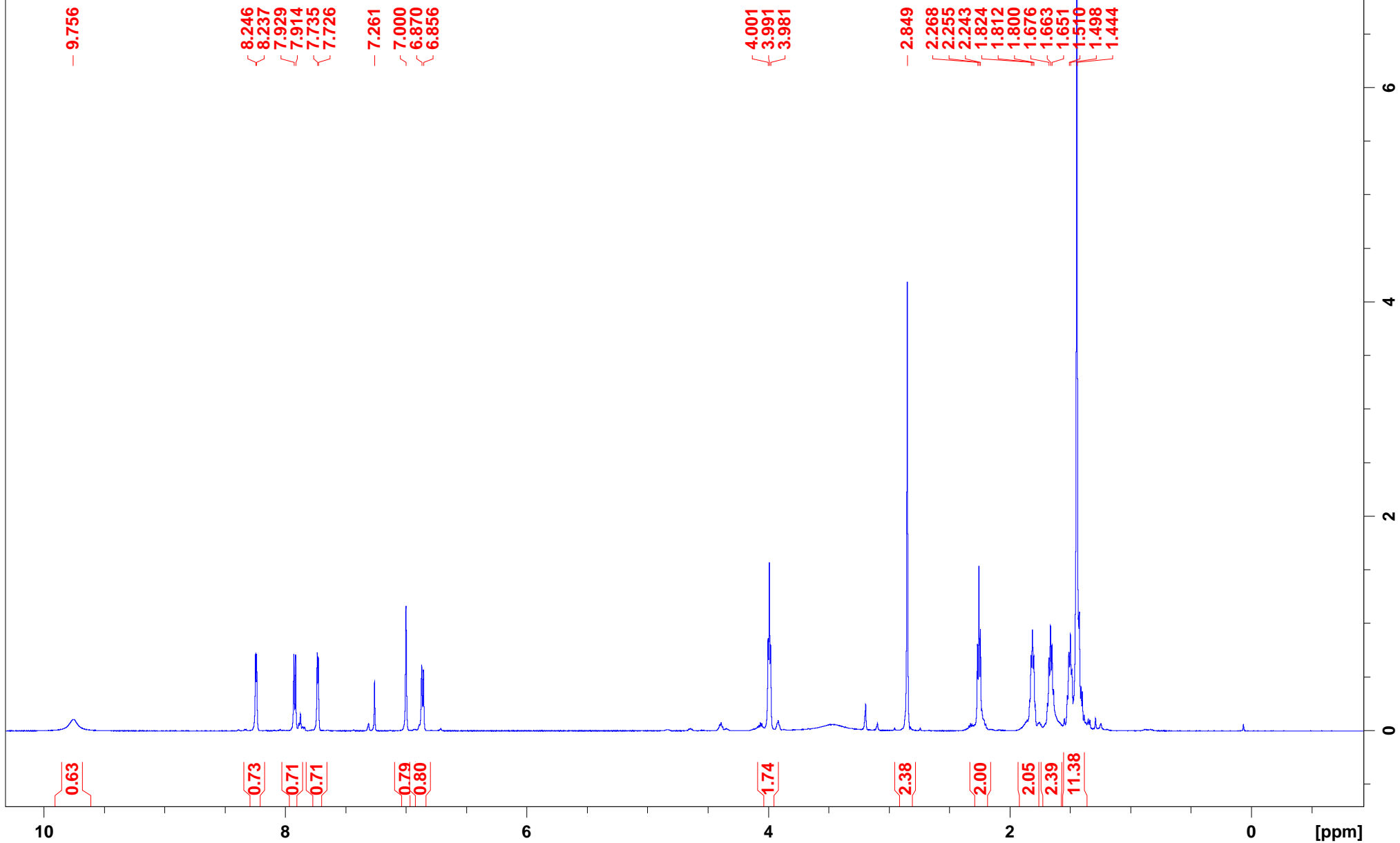
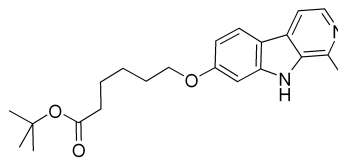
¹H-NMR of Compound 1-2h



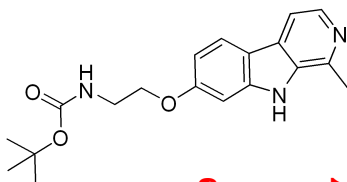
¹H-NMR of Compound 1-2i



¹H-NMR of Compound 1-2j



¹H-NMR of Compound 1-2k



8.098
8.089
7.995
7.981
7.800
7.791

7.054
7.051
6.898
6.895
6.884
6.880

4.859

4.117
4.108
4.099

3.497
3.488
3.478
3.305
3.303
3.300
3.297
3.295

2.758

0.80
0.82
0.82

0.82
0.86

2.06

2.01

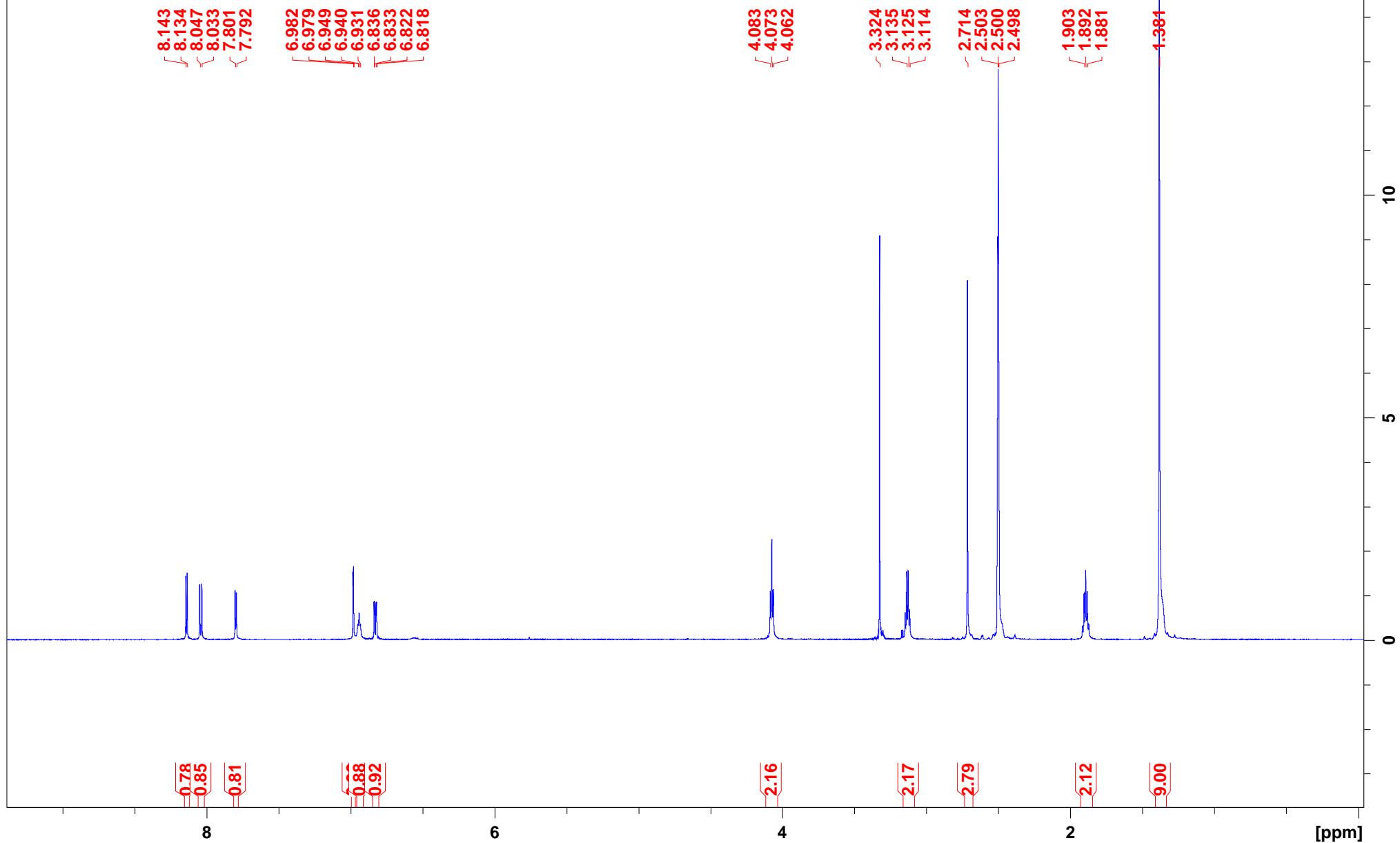
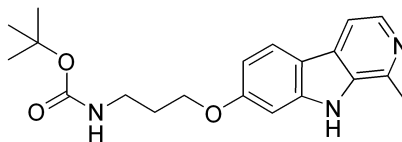
2.74

9.00

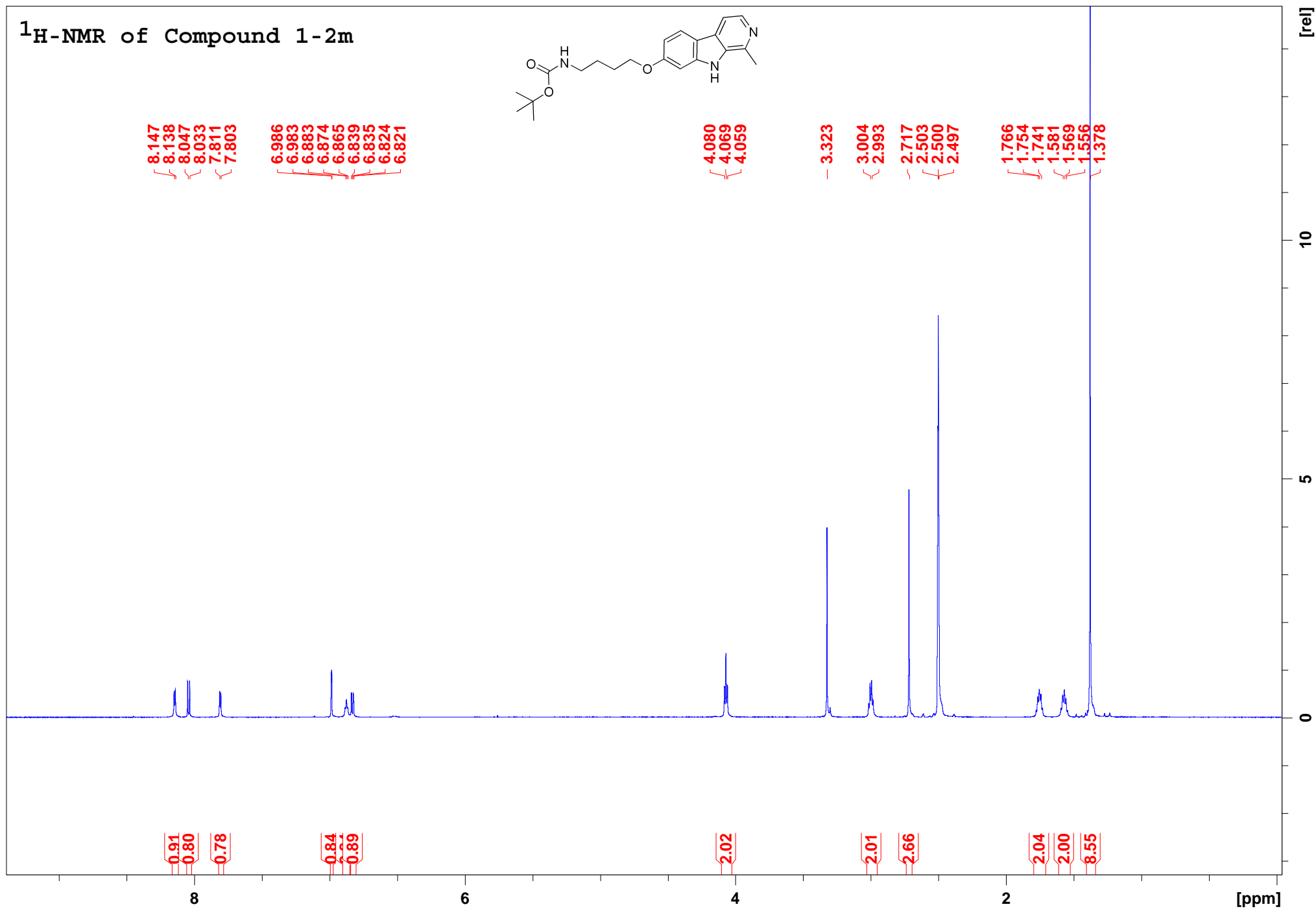
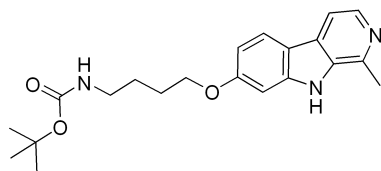
[ppm]

[rel]

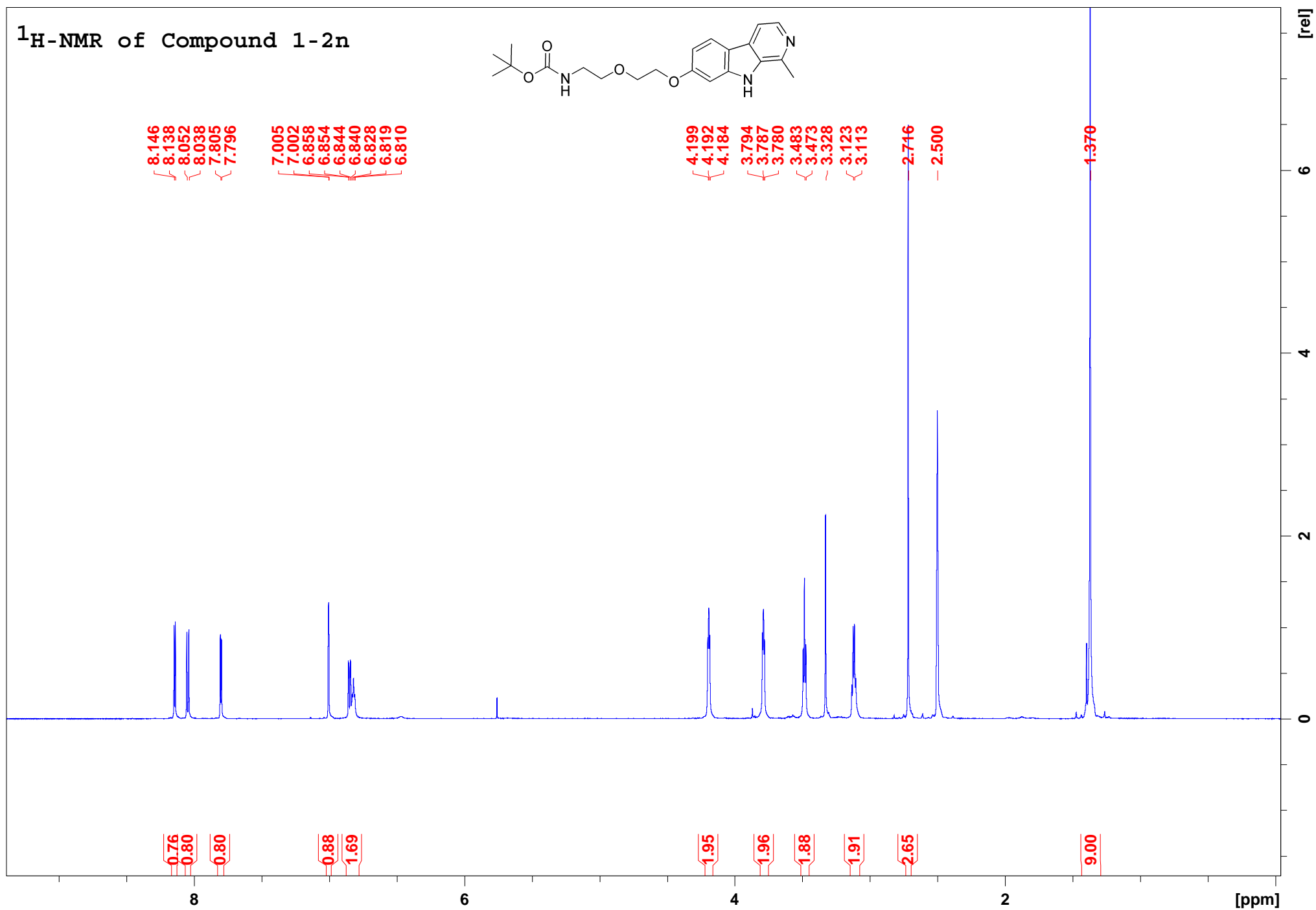
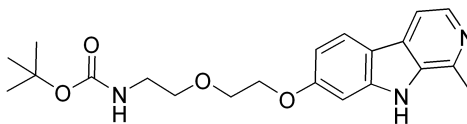
¹H-NMR of Compound 1-21



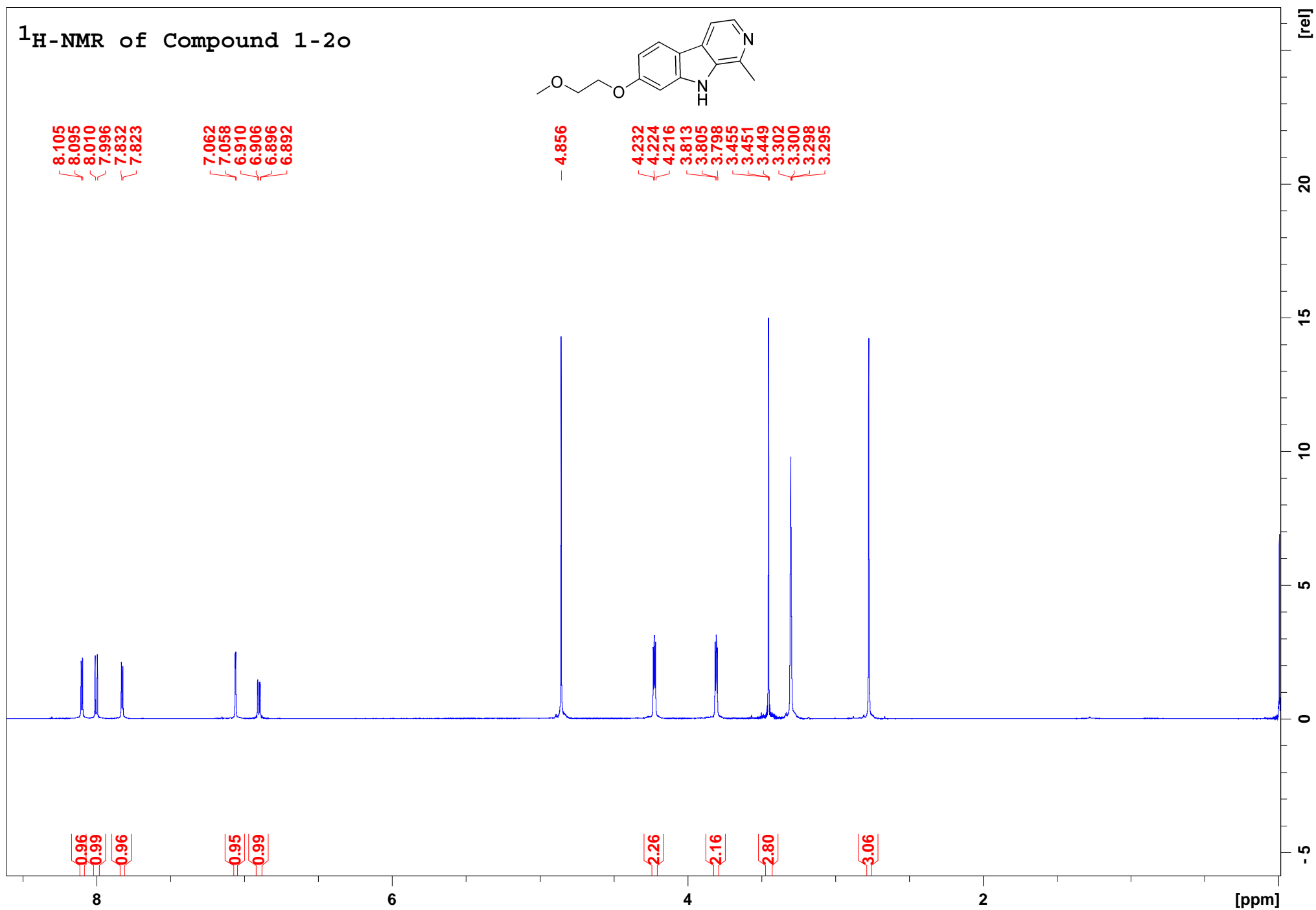
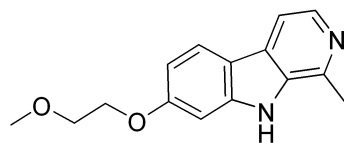
¹H-NMR of Compound 1-2m



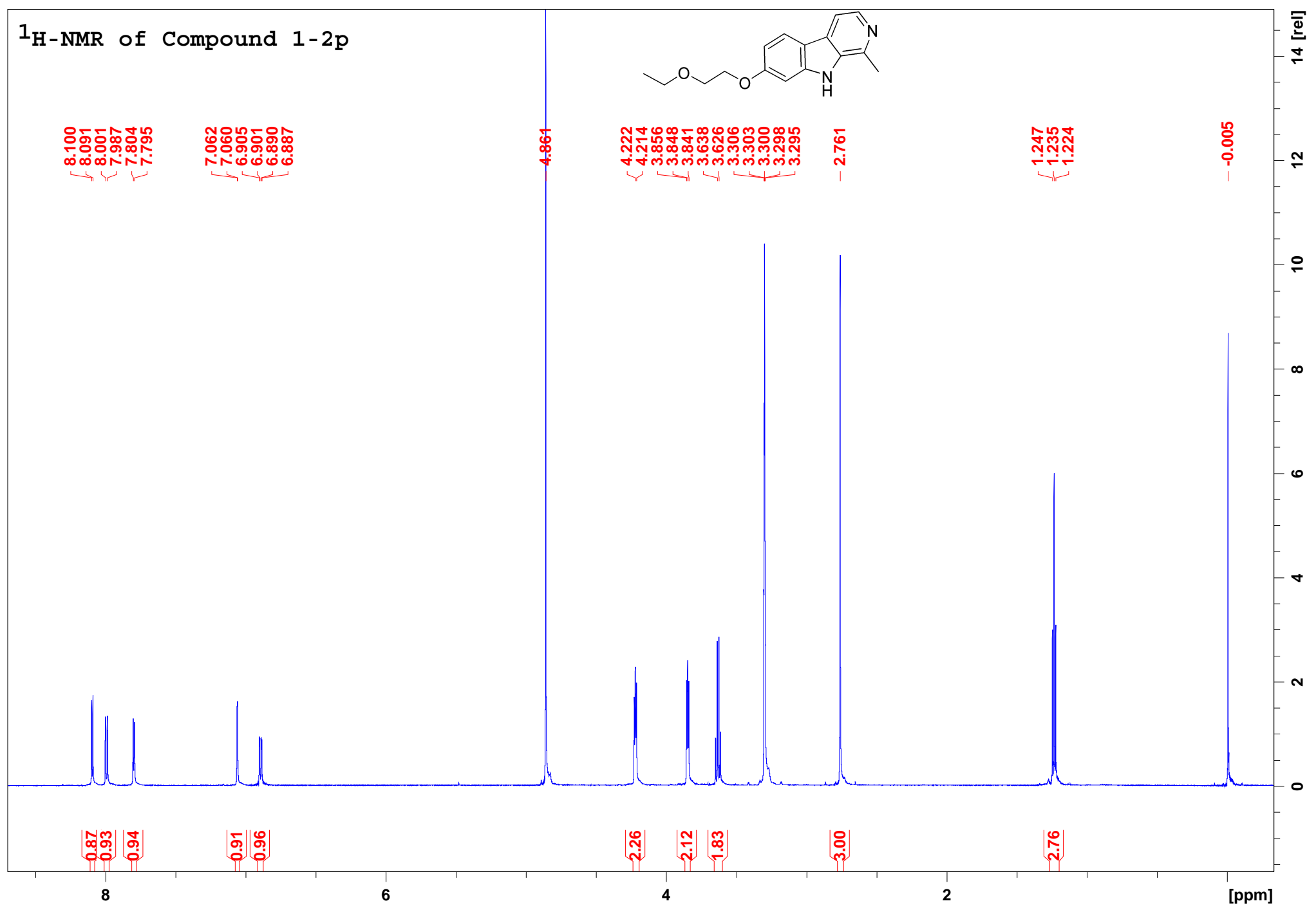
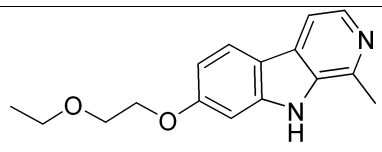
¹H-NMR of Compound 1-2n



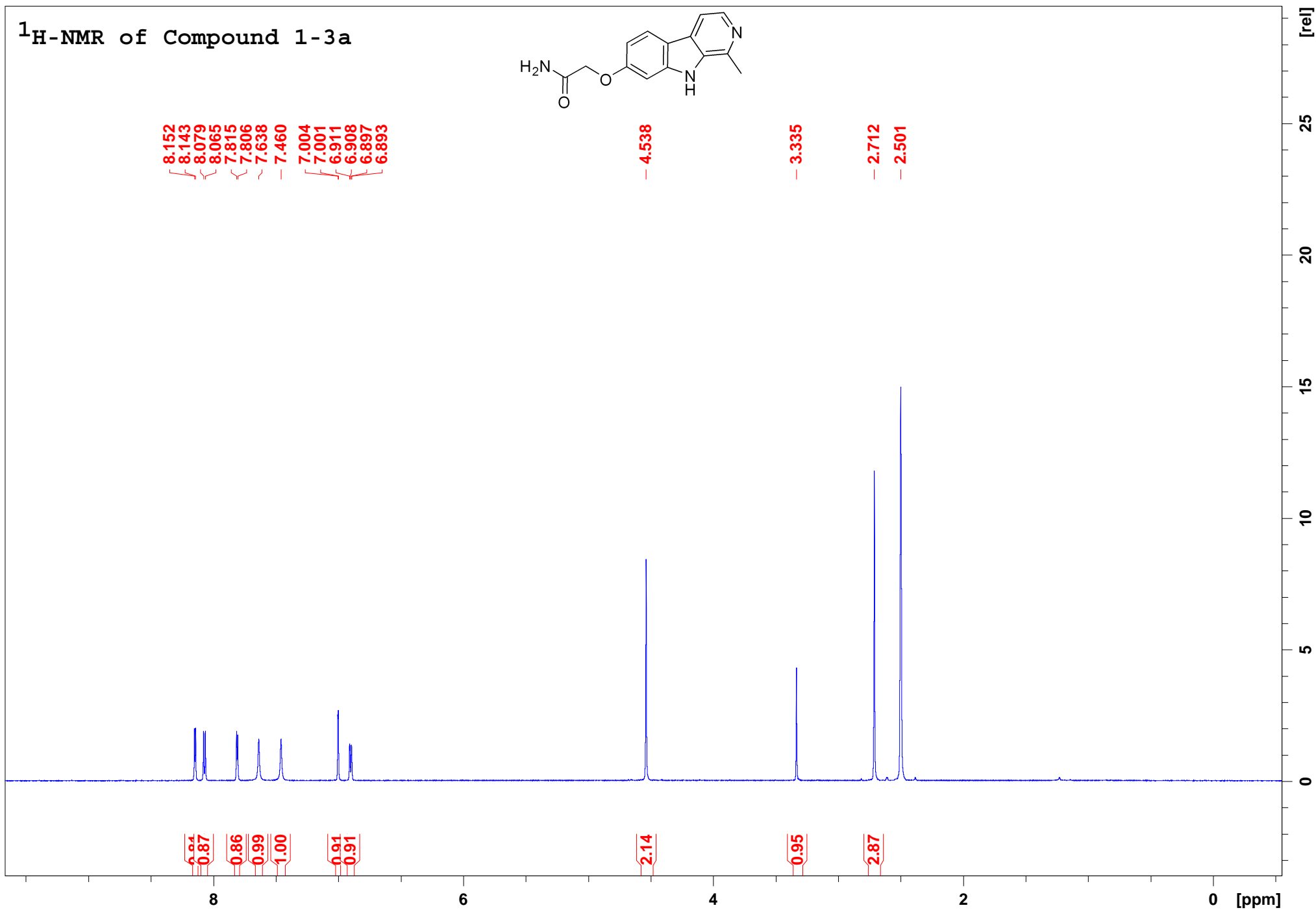
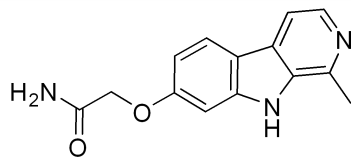
¹H-NMR of Compound 1-2o



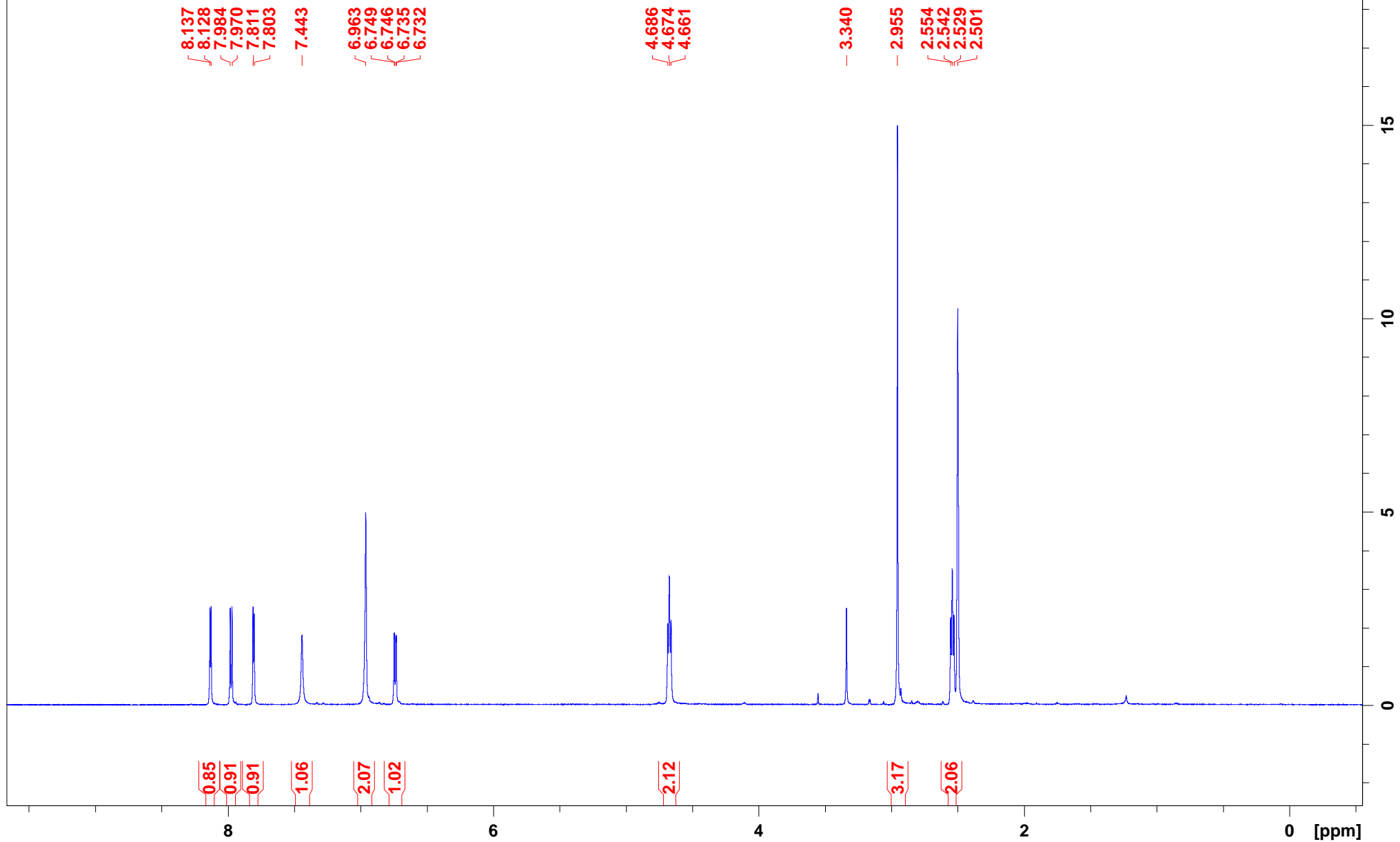
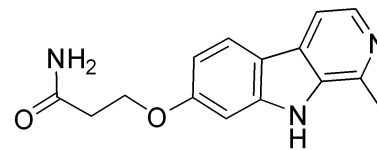
¹H-NMR of Compound 1-2p



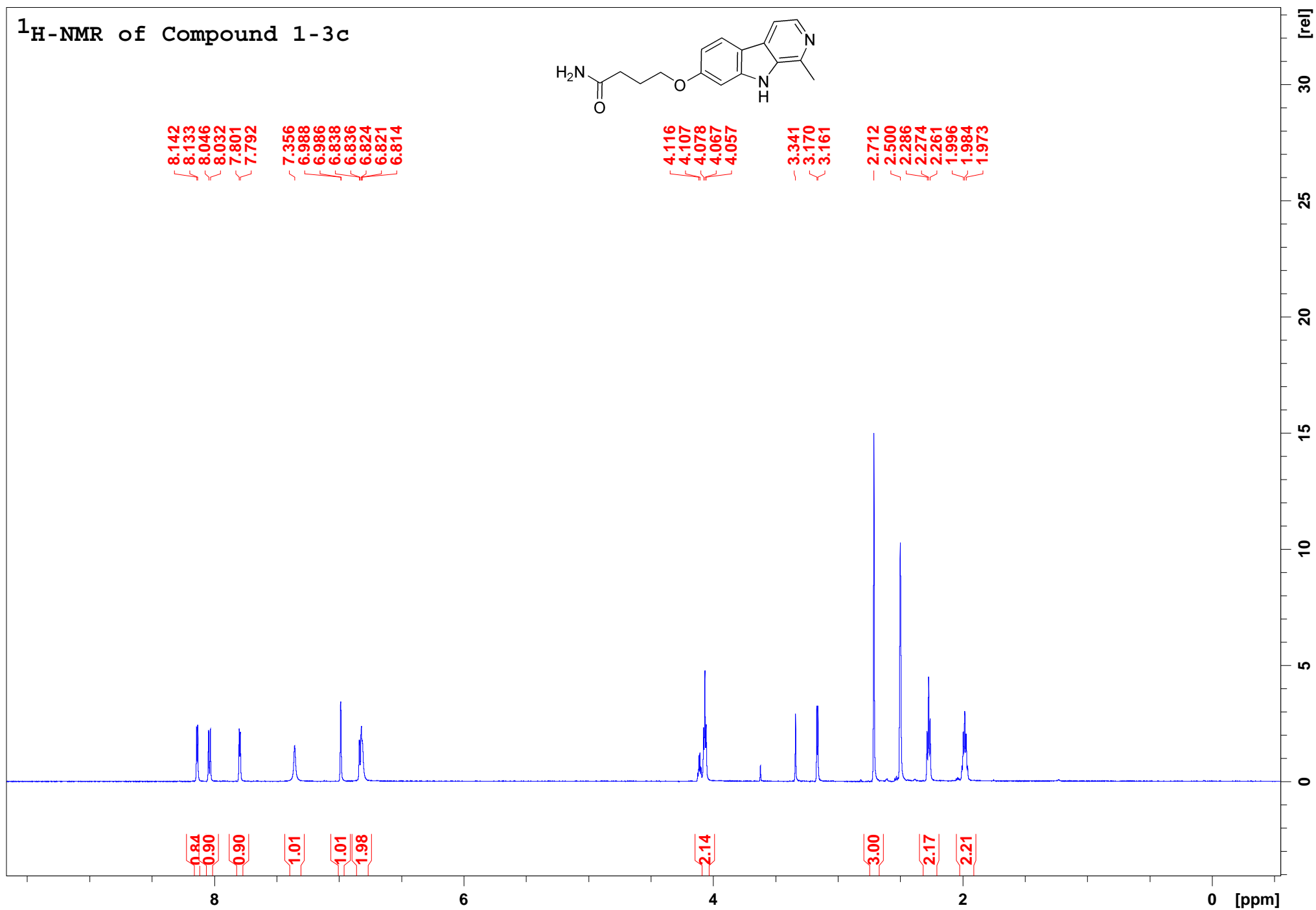
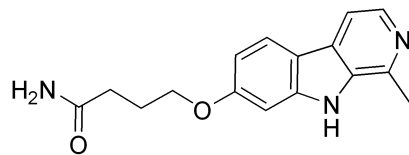
¹H-NMR of Compound 1-3a



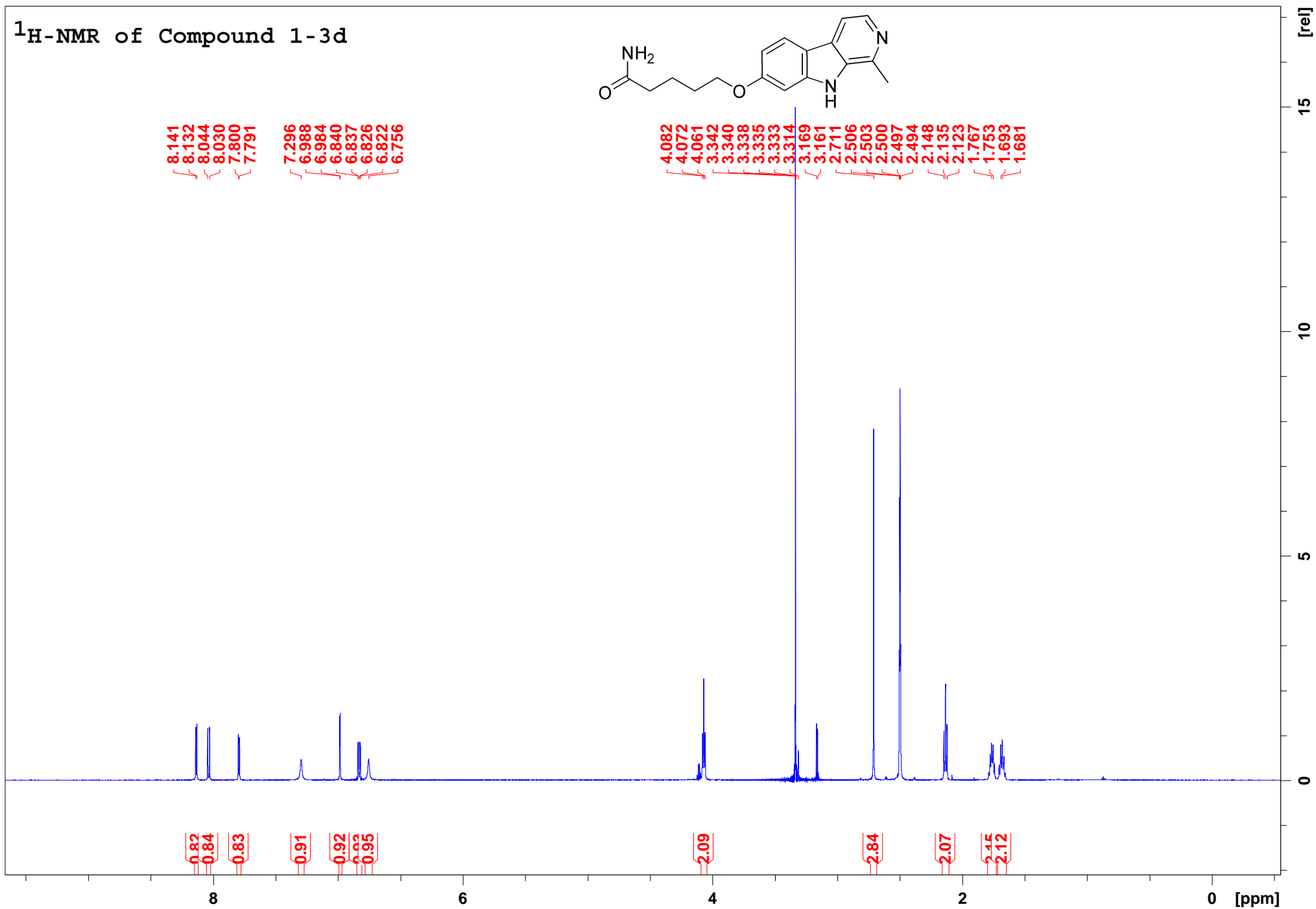
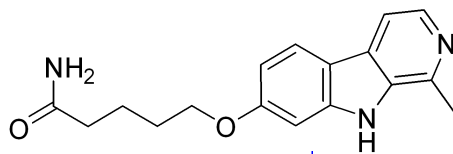
¹H-NMR of Compound 1-3b



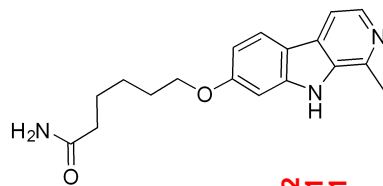
¹H-NMR of Compound 1-3c



¹H-NMR of Compound 1-3d



¹H-NMR of Compound 1-3e



8.141
8.132
8.040
8.026
7.799
7.791

7.268
6.986
6.982
6.835
6.831
6.820
6.817
6.727

4.072
4.061
4.051

3.339
3.170
3.161

2.712
2.503
2.500
2.497

2.093
2.081
2.069
1.786
1.774
1.762

1.585
1.572
1.559
1.455
1.443

0.78
0.84
0.84

1.01

0.96
0.93
0.97

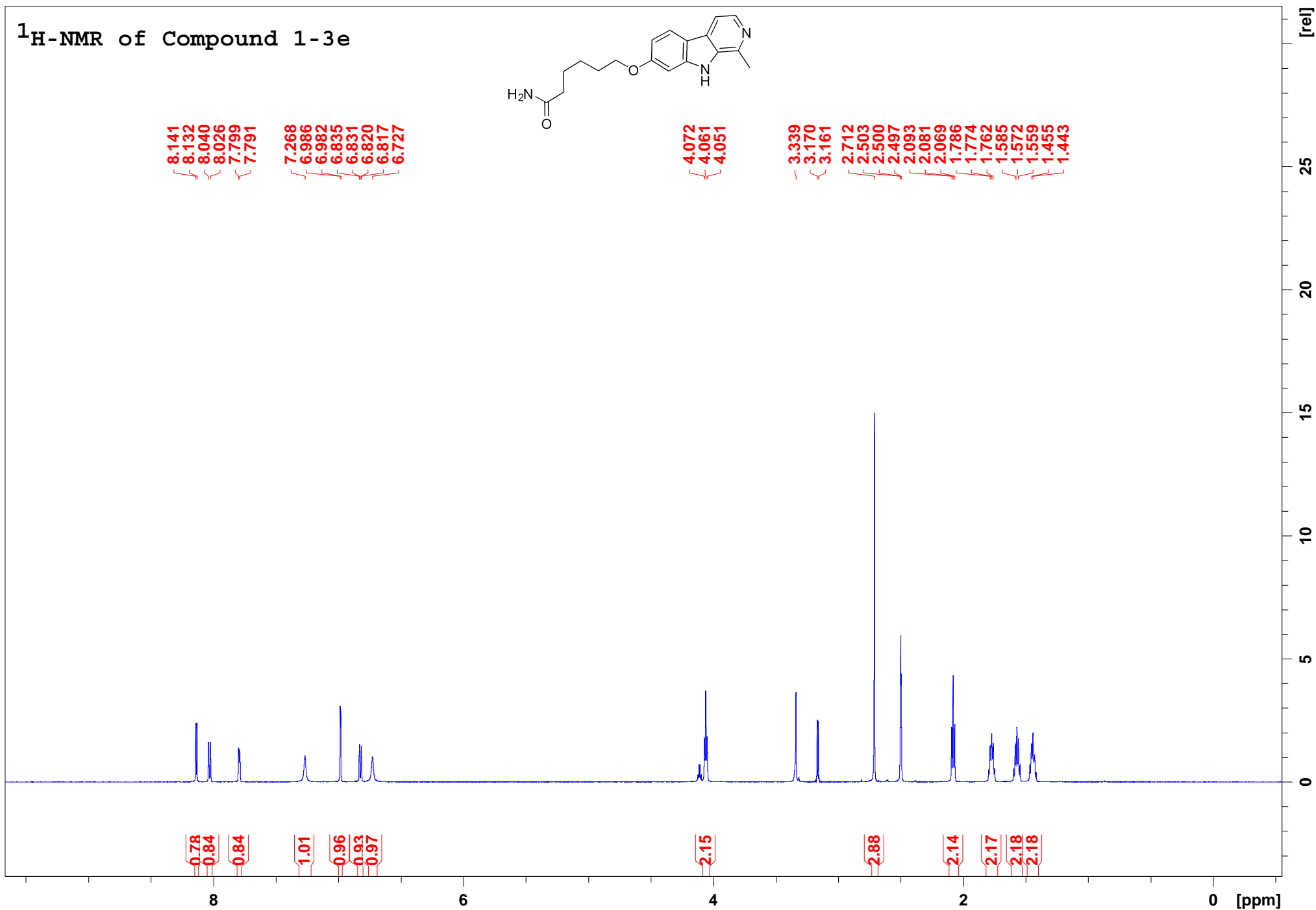
2.15

2.88

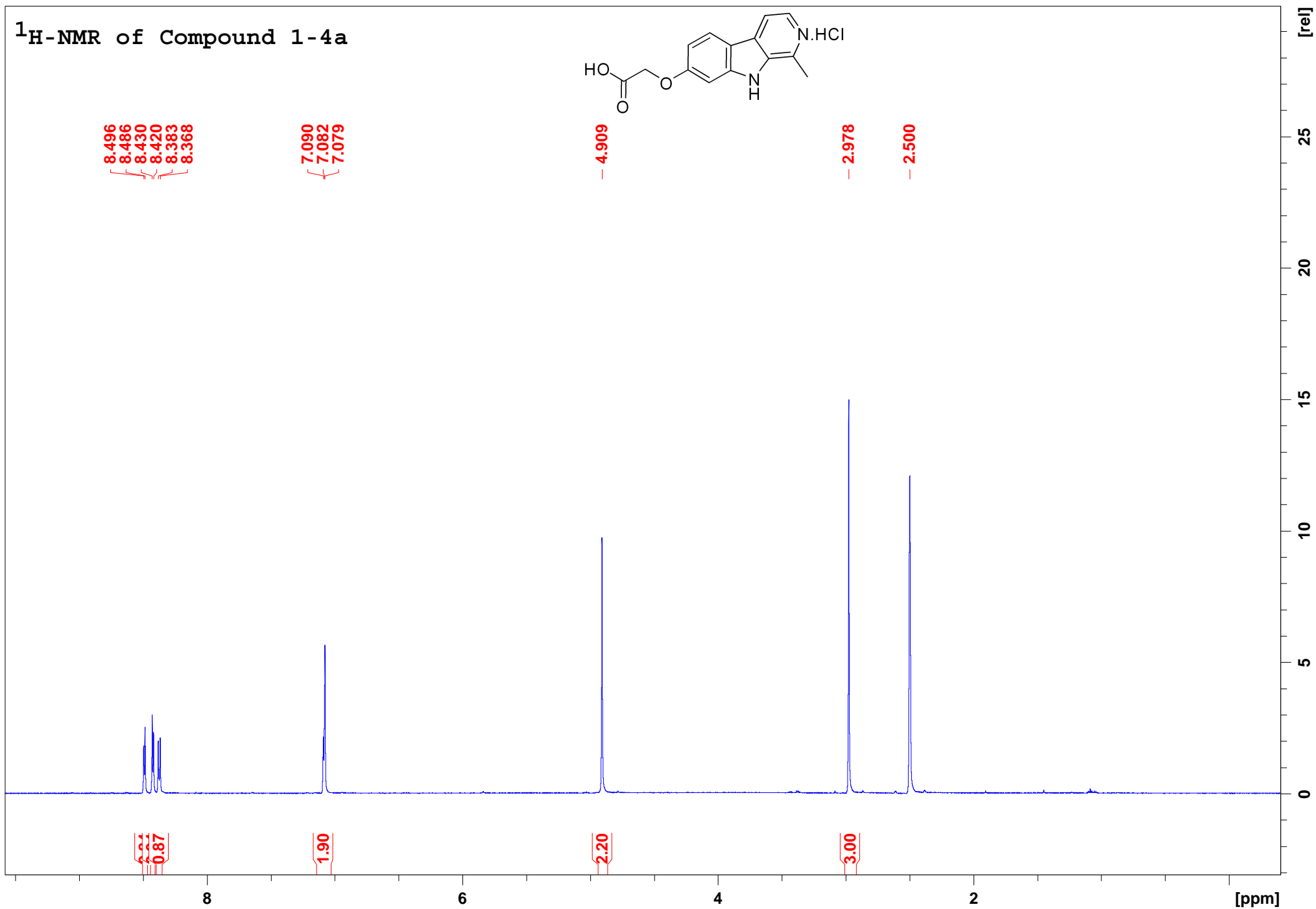
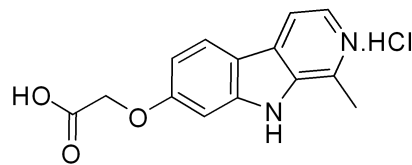
2.14

2.17

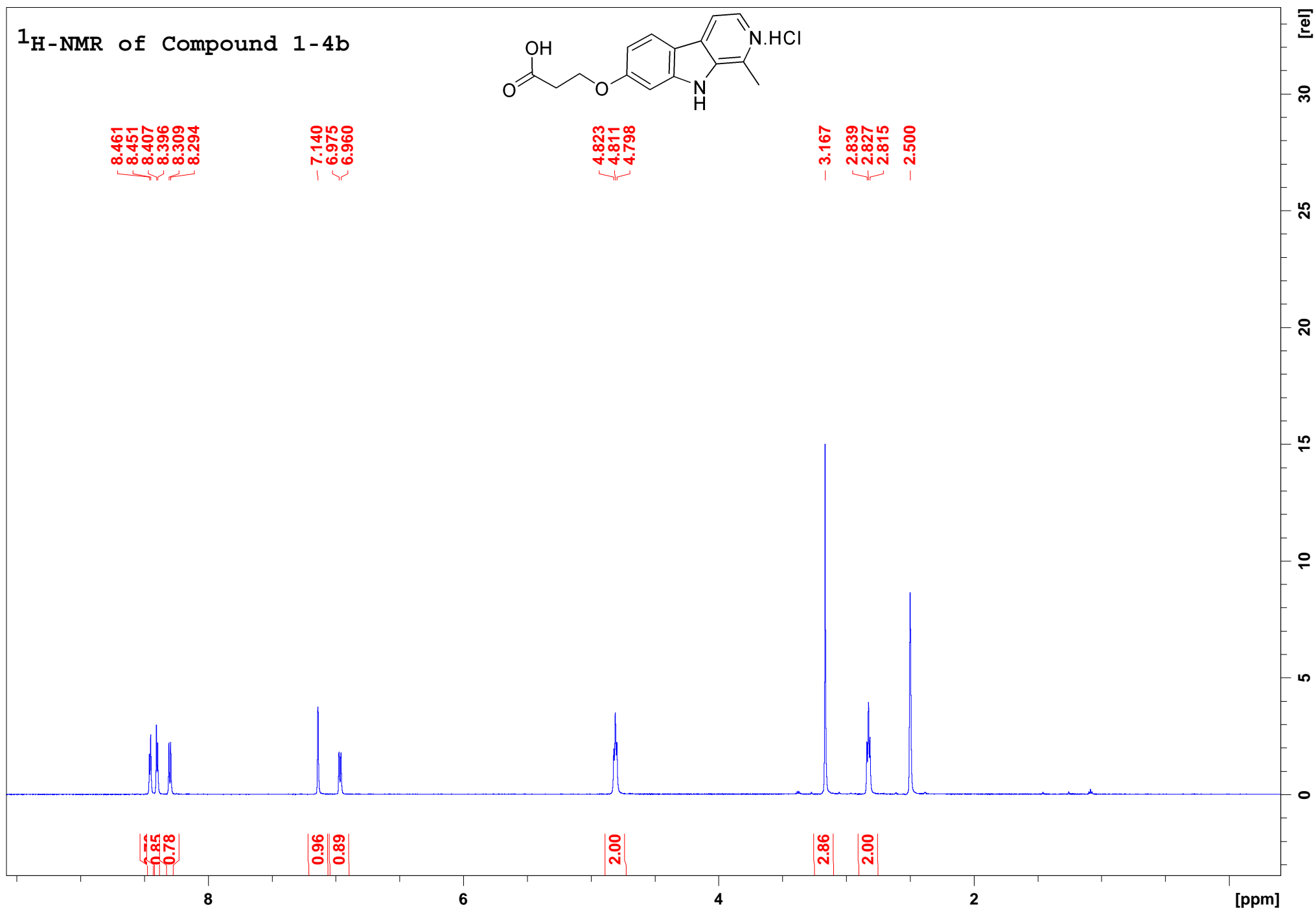
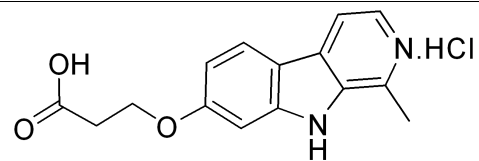
2.18
2.18



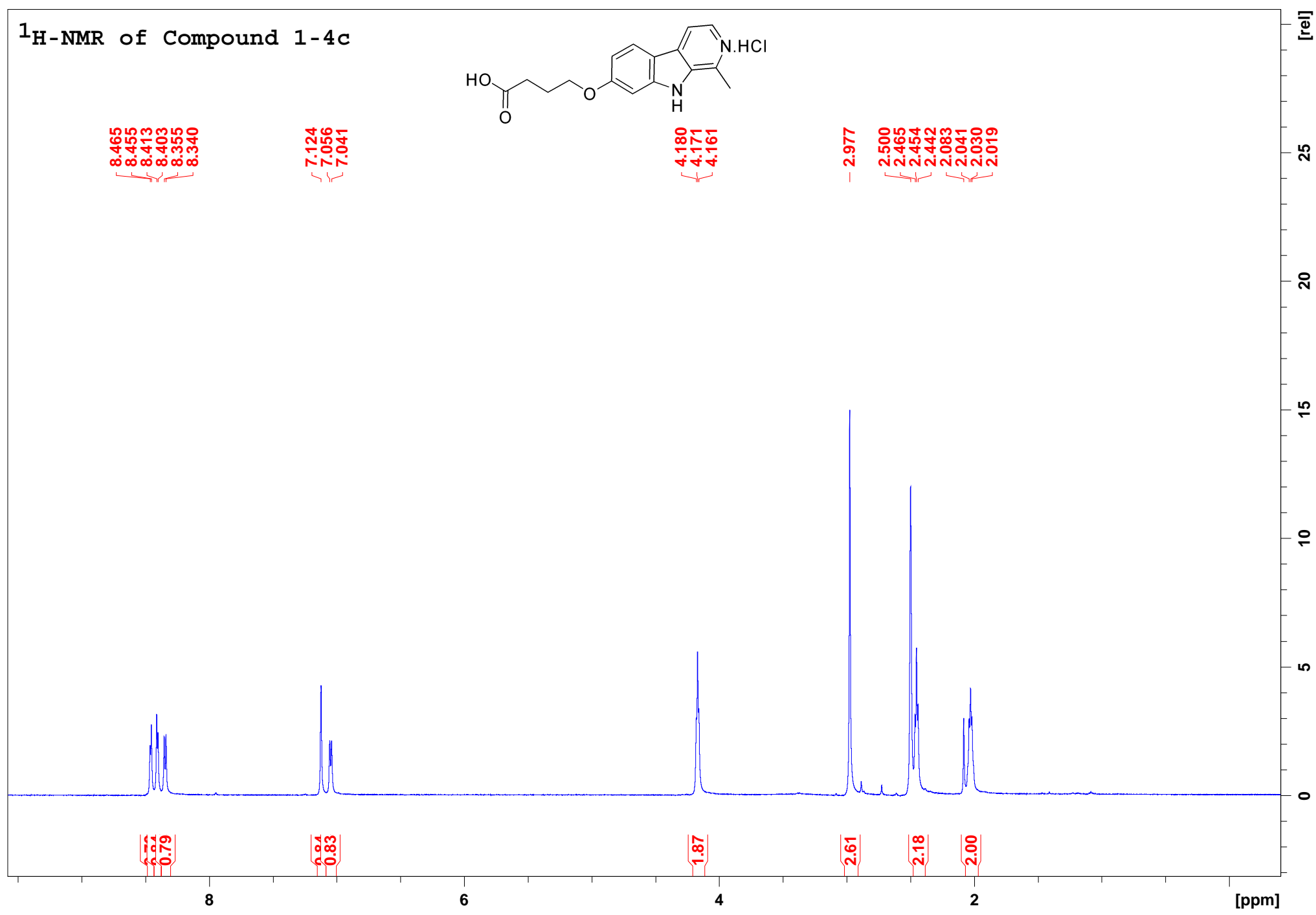
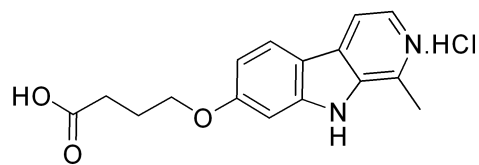
¹H-NMR of Compound 1-4a



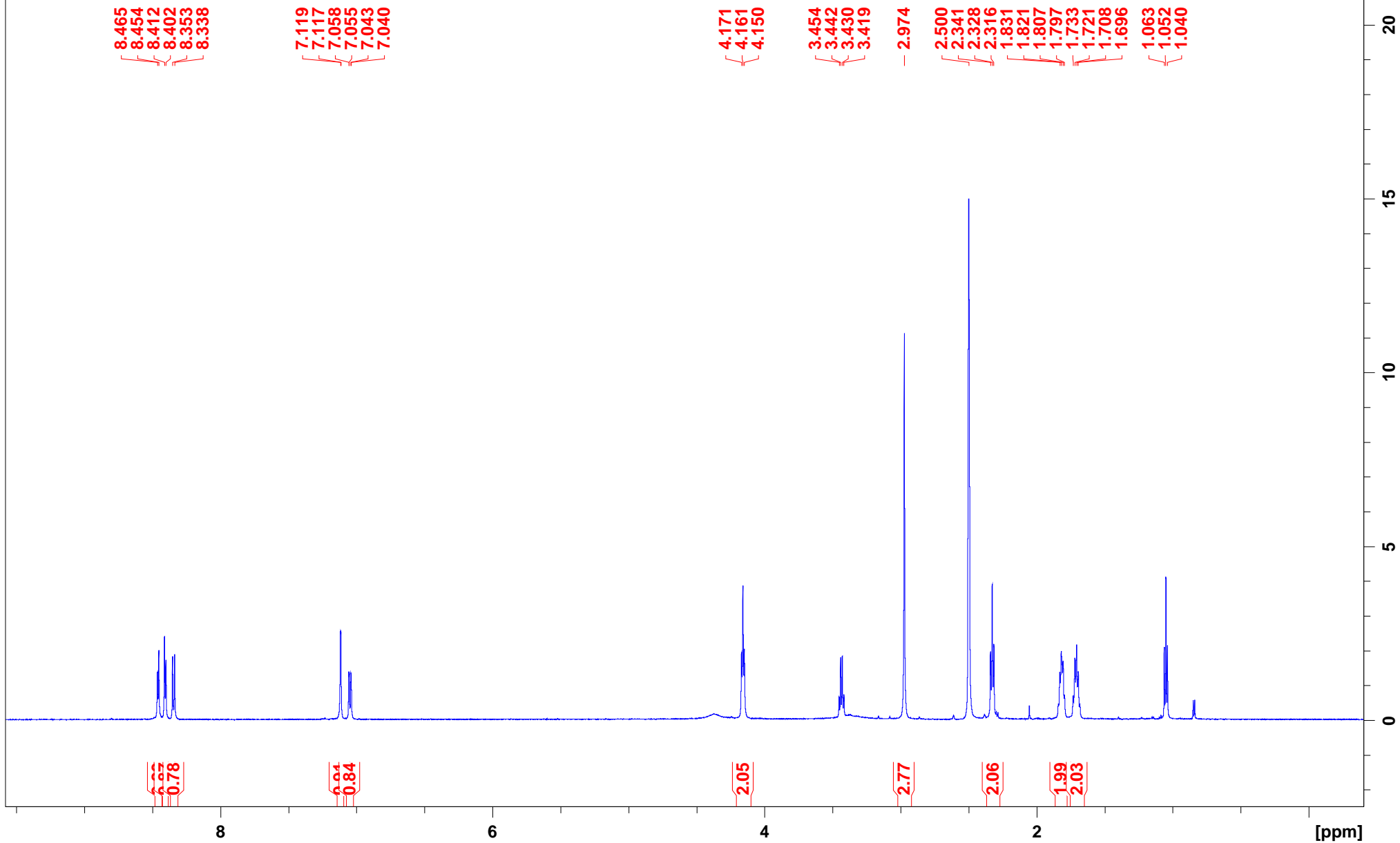
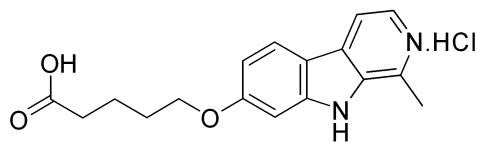
¹H-NMR of Compound 1-4b



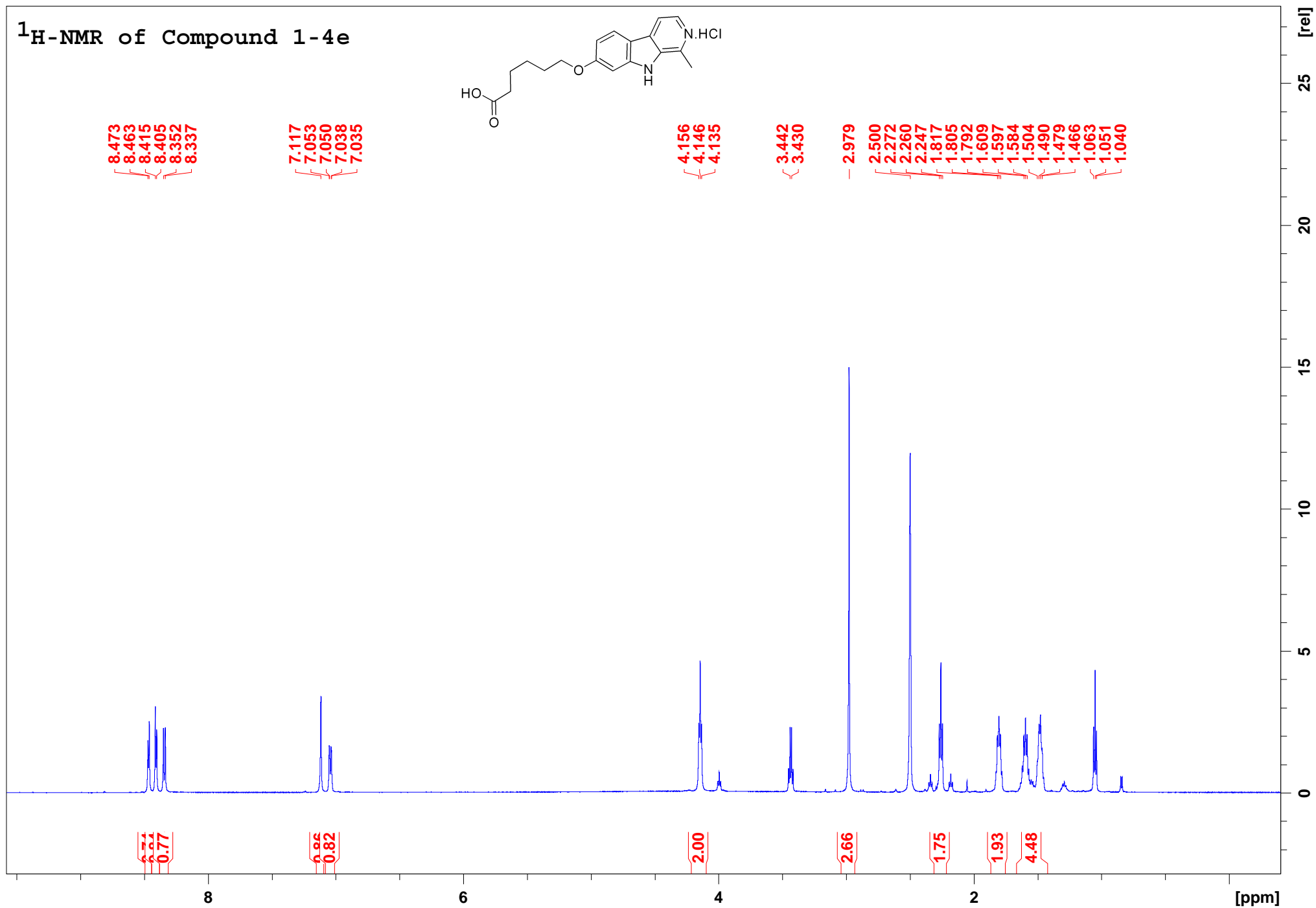
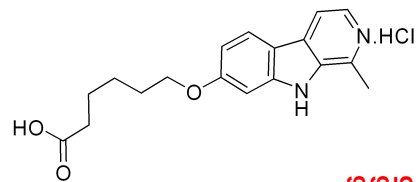
¹H-NMR of Compound 1-4c



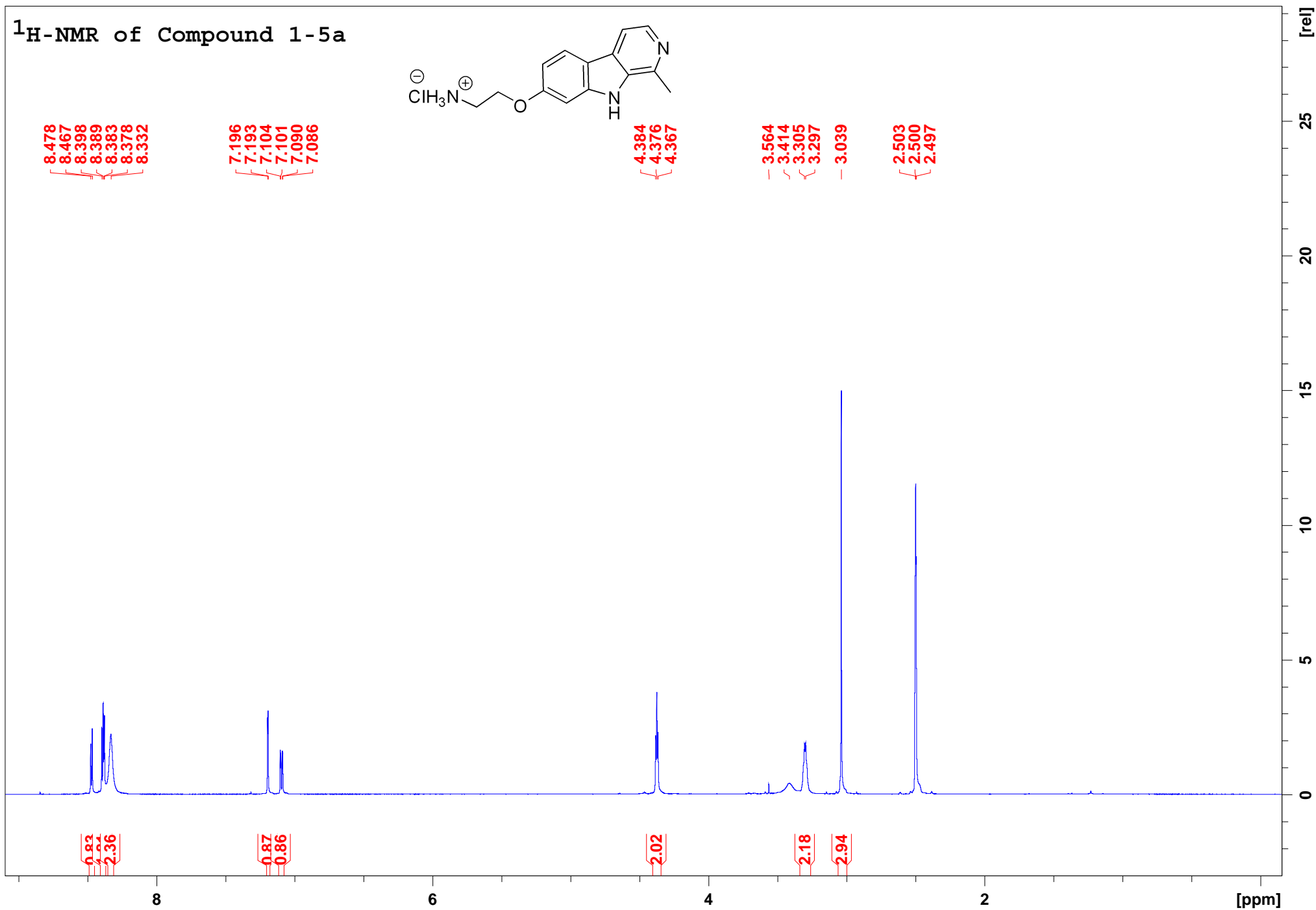
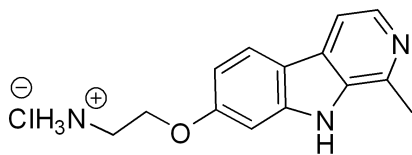
¹H-NMR of Compound 1-4d



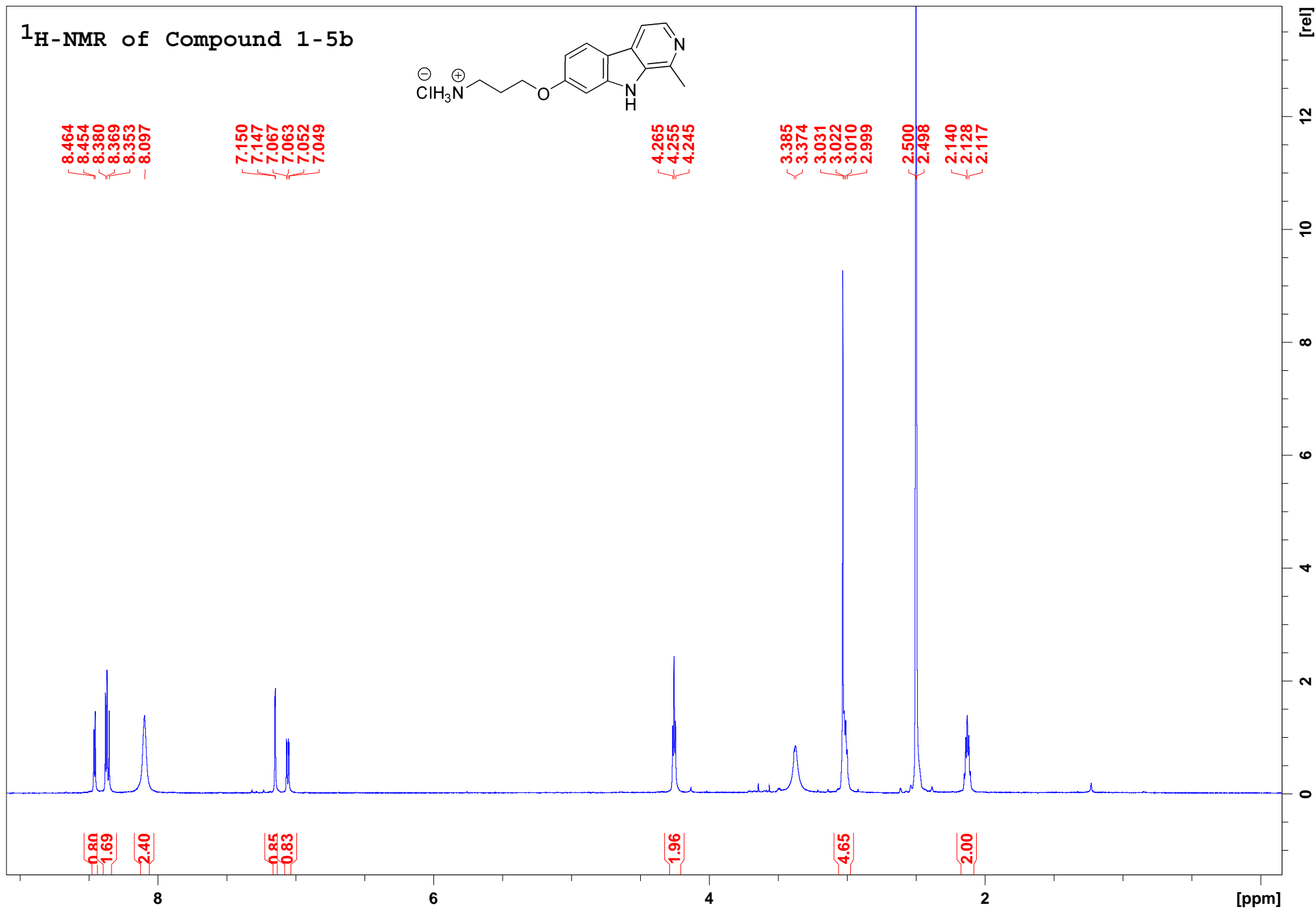
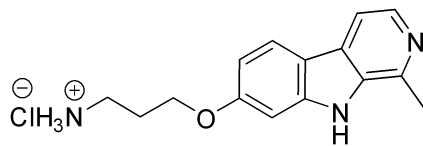
¹H-NMR of Compound 1-4e



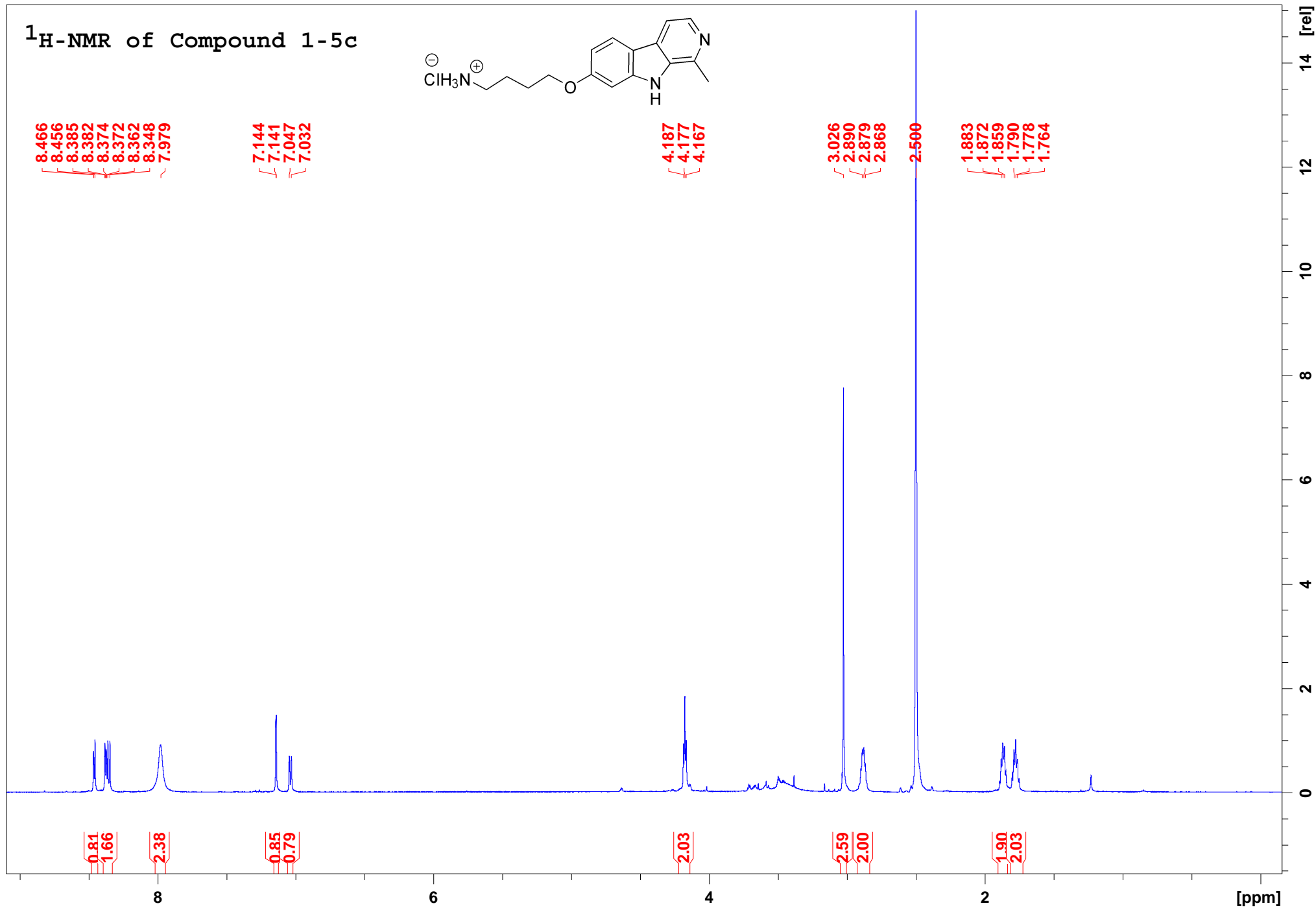
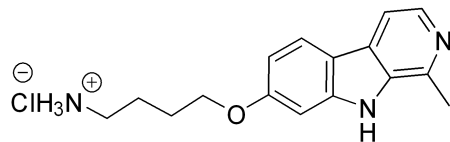
¹H-NMR of Compound 1-5a



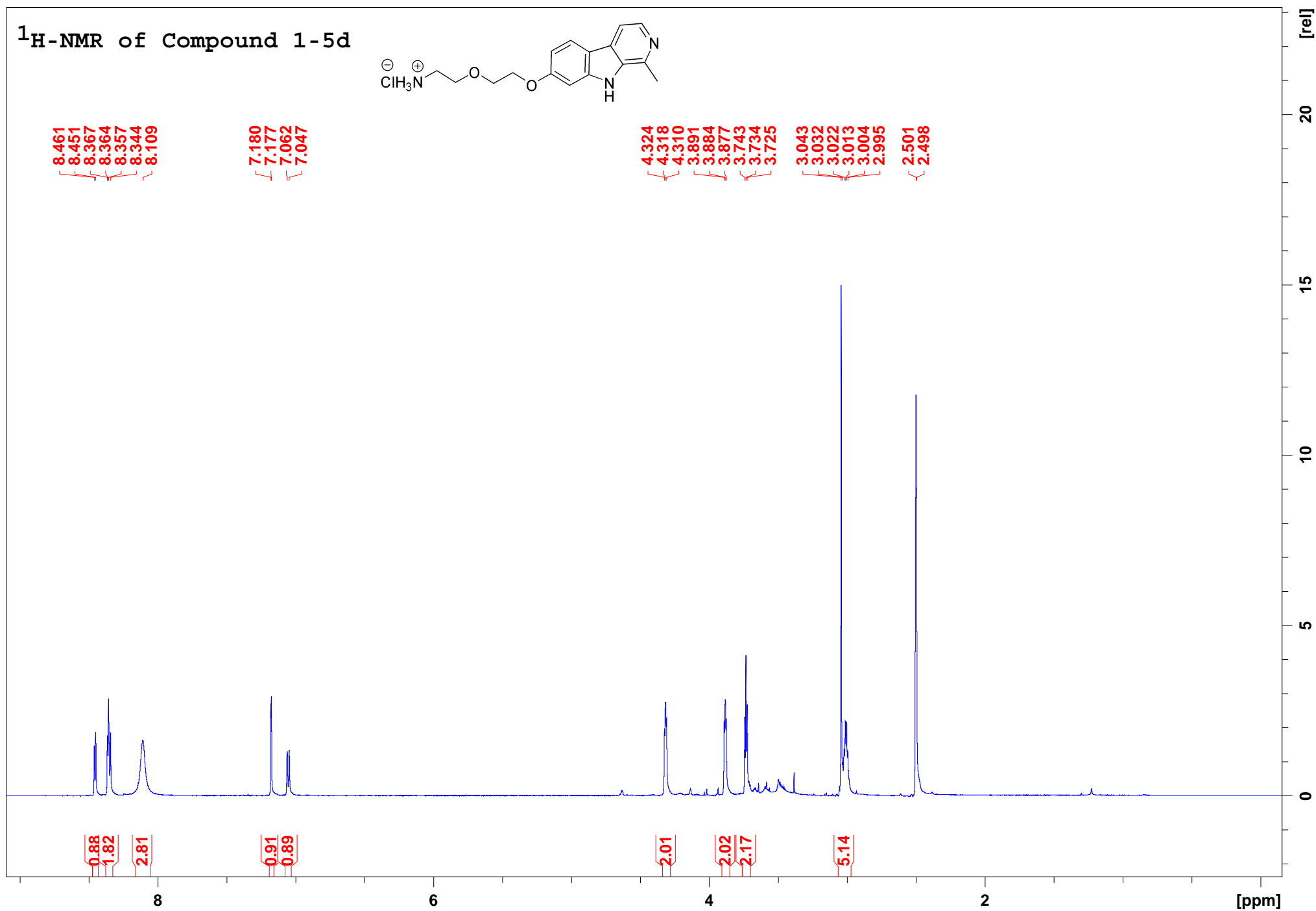
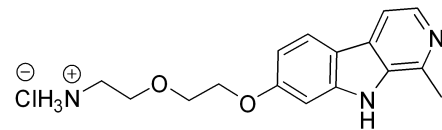
¹H-NMR of Compound 1-5b



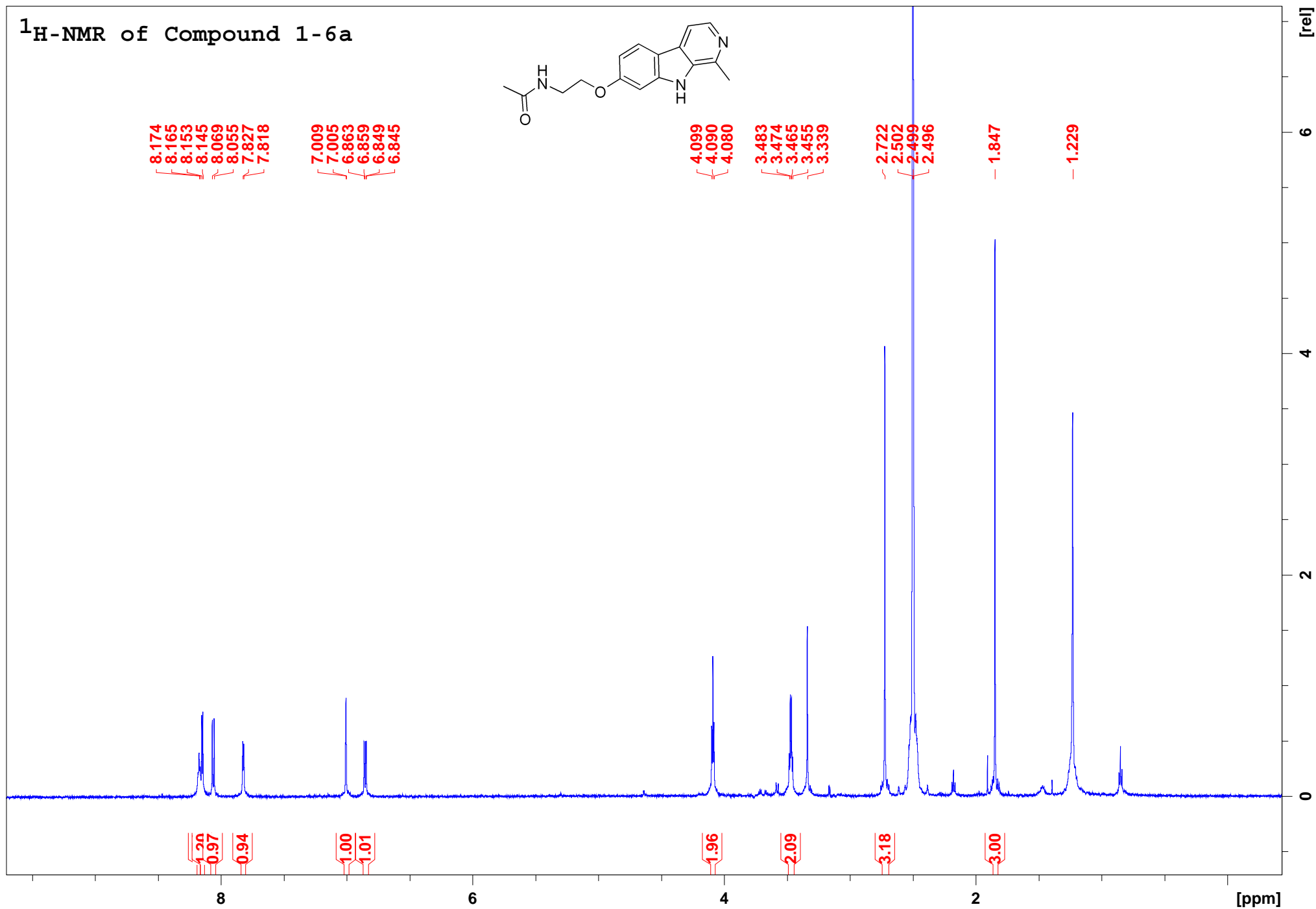
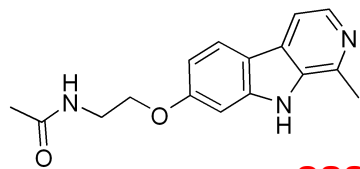
¹H-NMR of Compound 1-5c



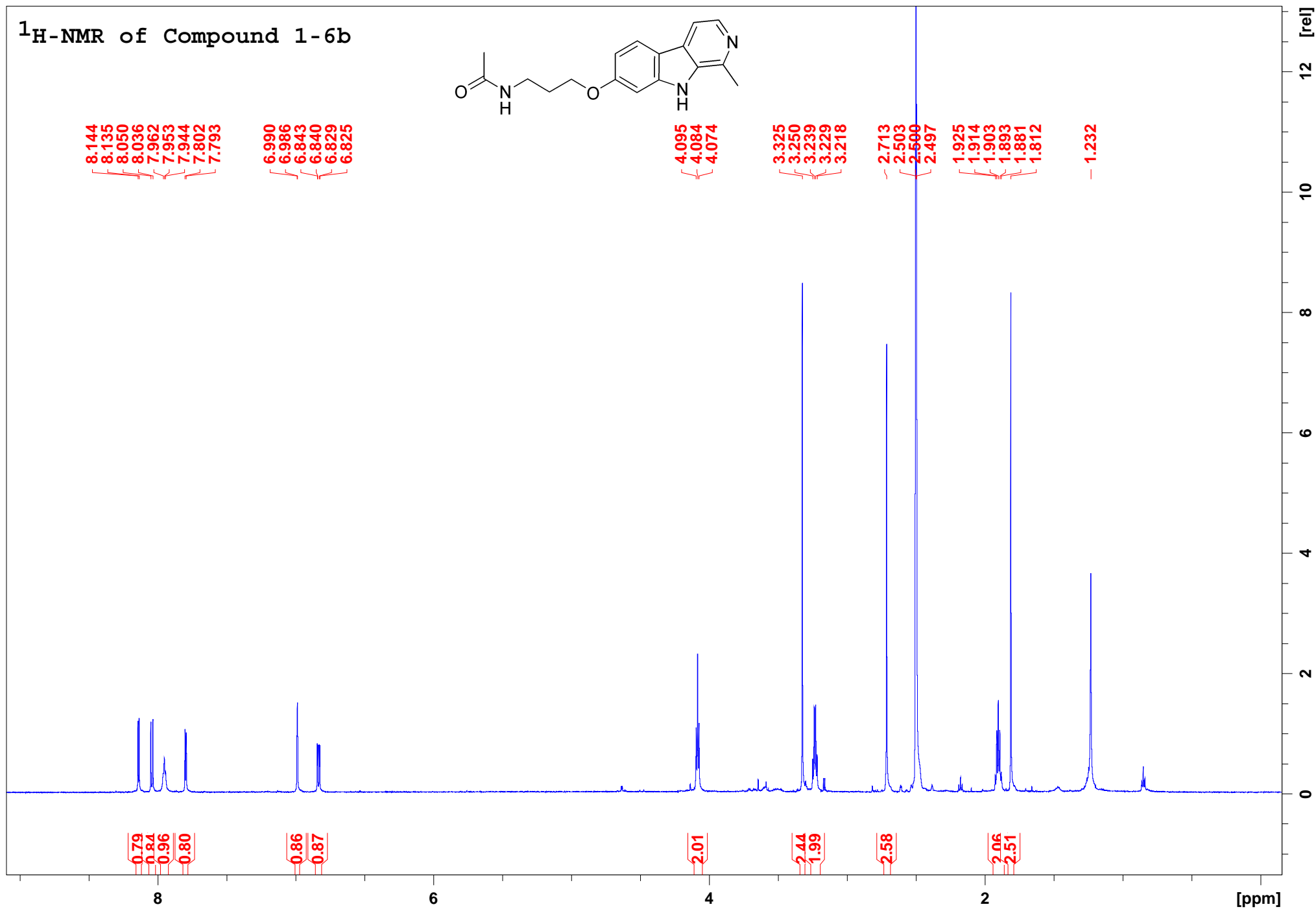
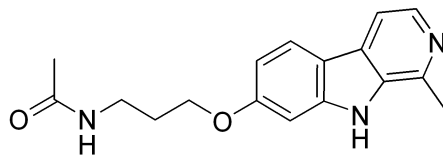
$^1\text{H-NMR}$ of Compound 1-5d



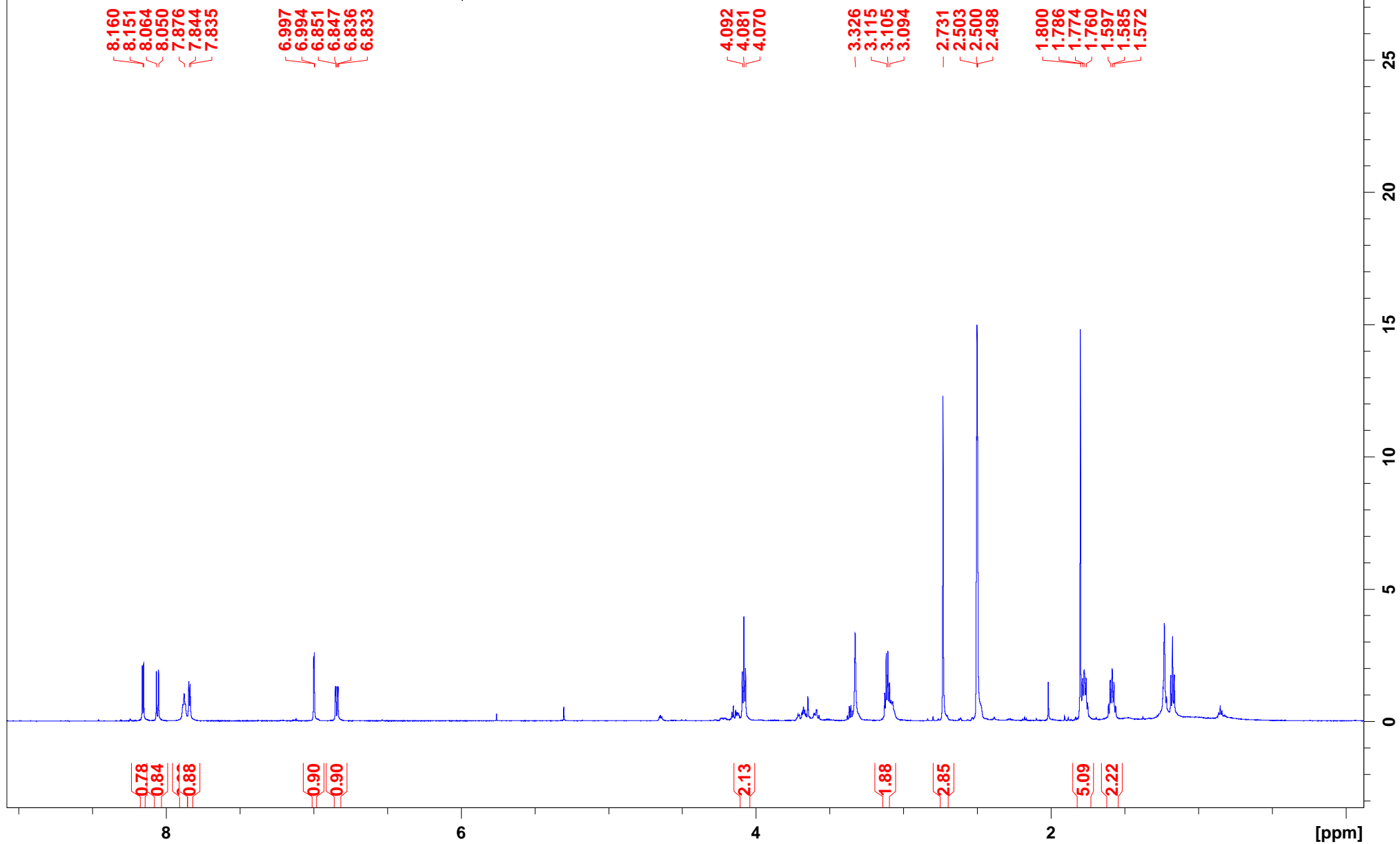
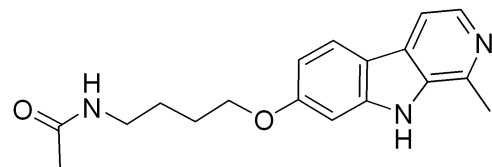
¹H-NMR of Compound 1-6a



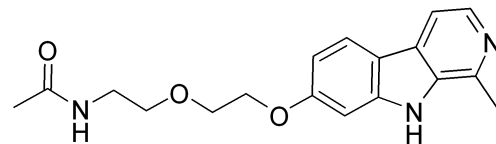
¹H-NMR of Compound 1-6b



¹H-NMR of Compound 1-6c



¹H-NMR of Compound 1-6d



8.147
8.138
8.055
8.040
7.939
7.804
7.796

7.011
7.007
6.860
6.857
6.846
6.842

4.209
4.202
4.194
3.804
3.796
3.789
3.514
3.505
3.495
3.333
3.247
3.237
3.228
3.218
2.716
2.503
2.500
2.498

1.798

0.75
0.83
0.91
0.80

0.91
0.87

2.10

2.07

2.12

2.16

2.88

2.71

[ppm]

20 [rel]

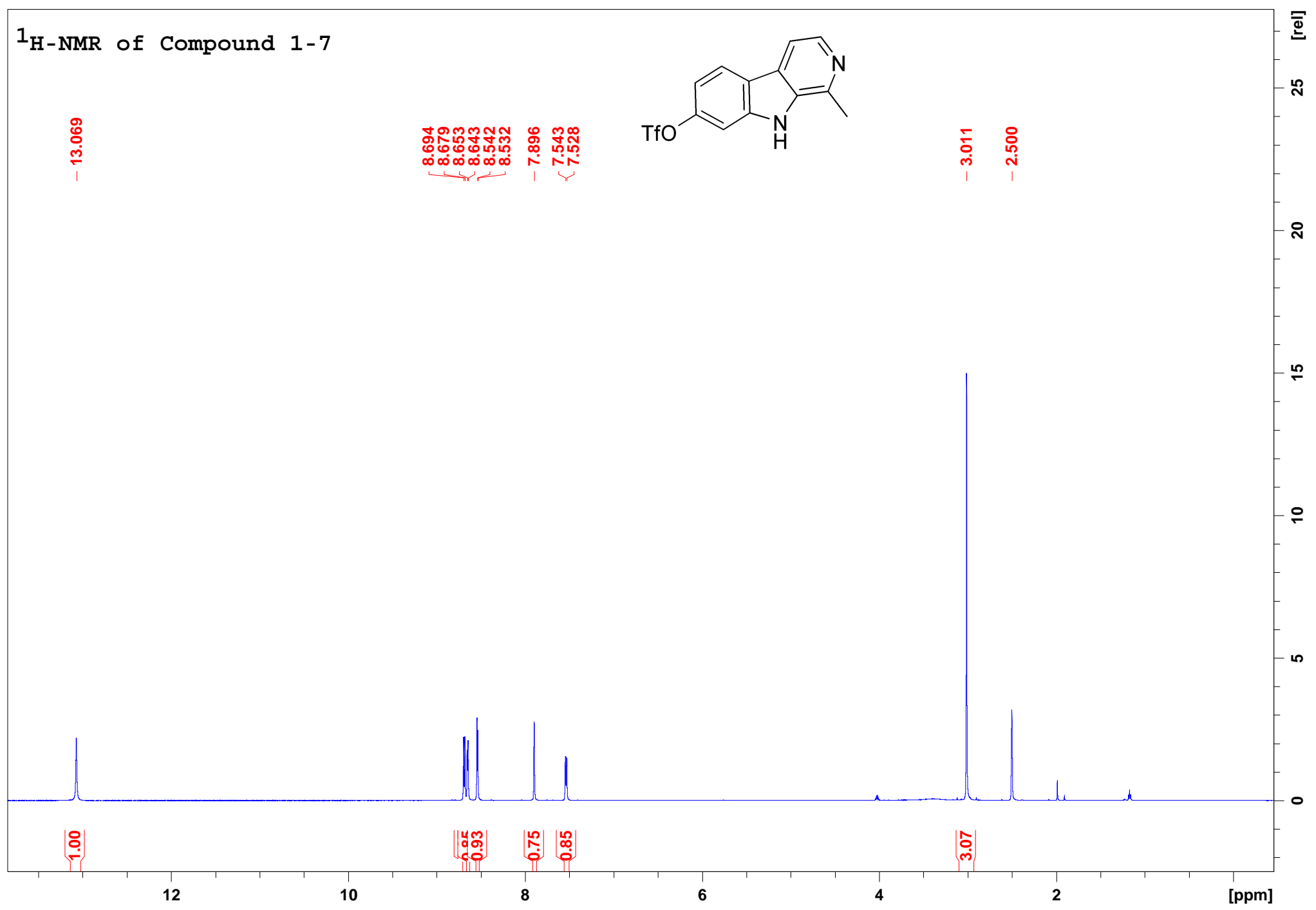
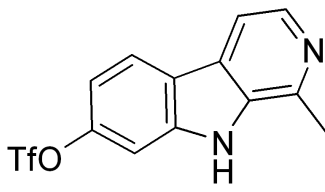
15

10

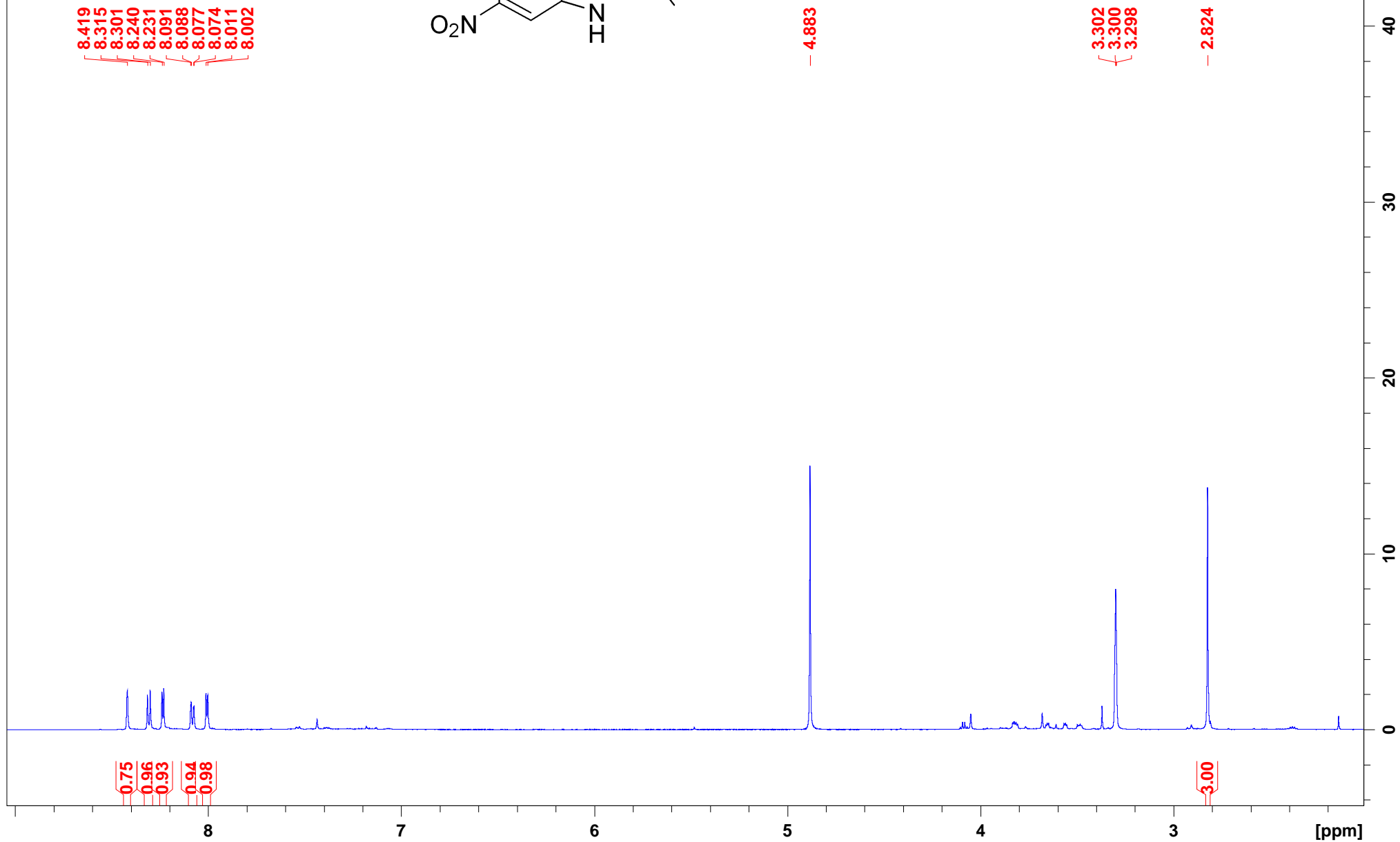
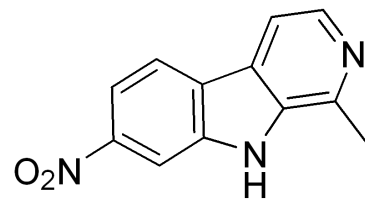
5

0

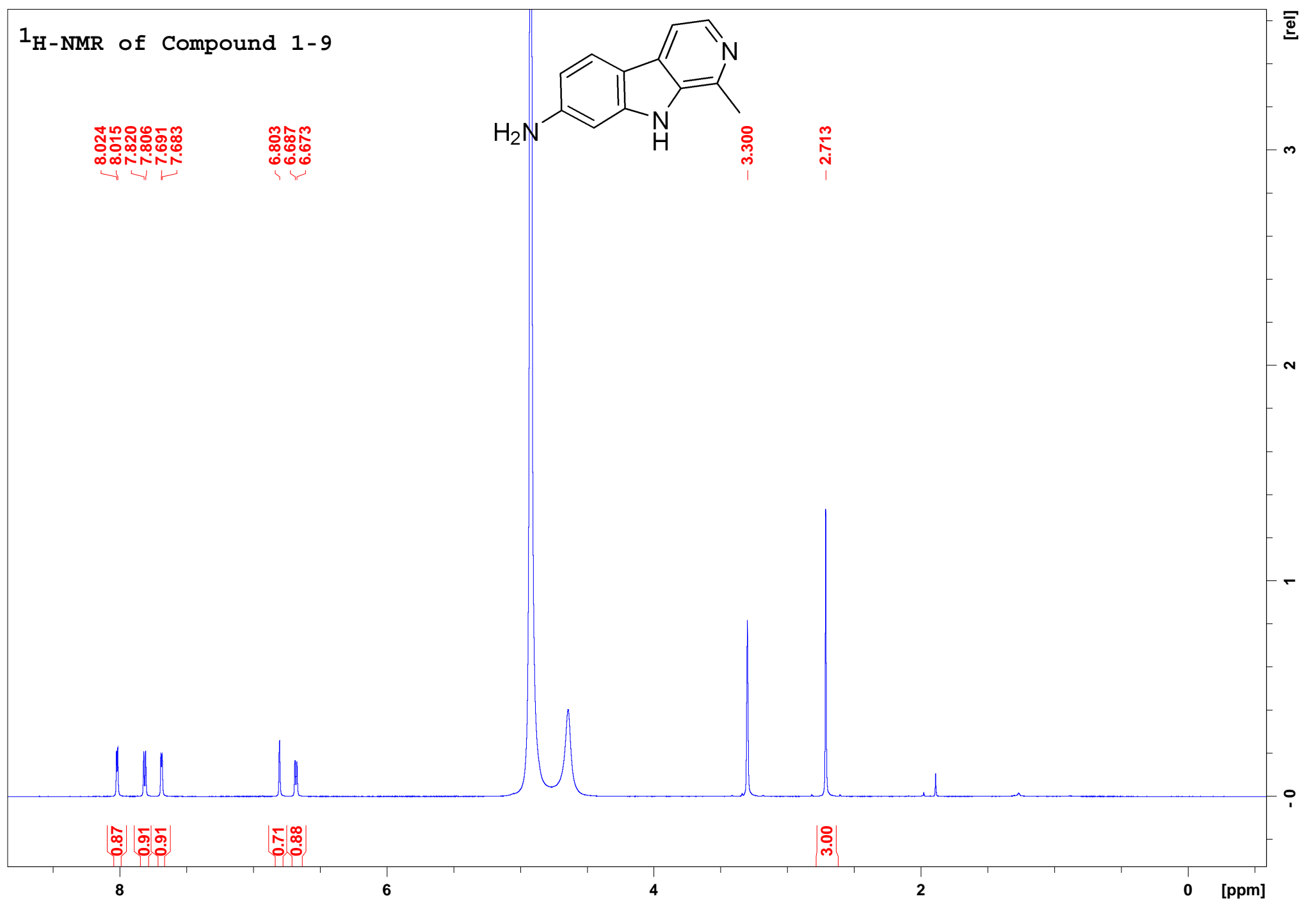
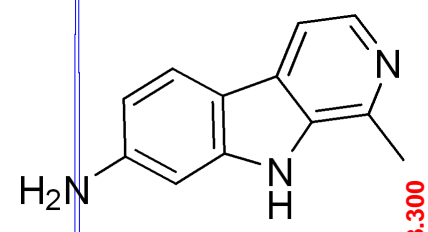
¹H-NMR of Compound 1-7



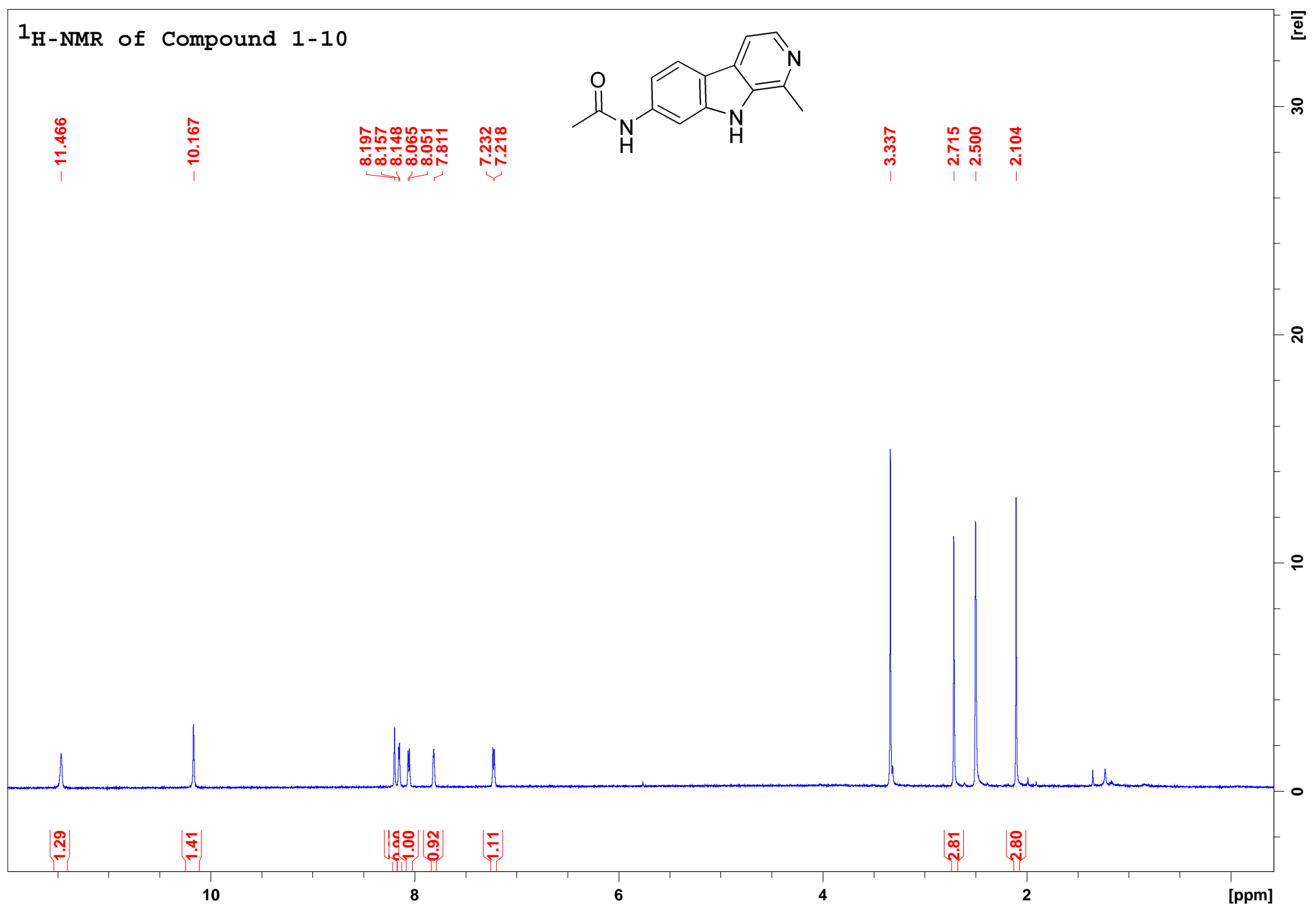
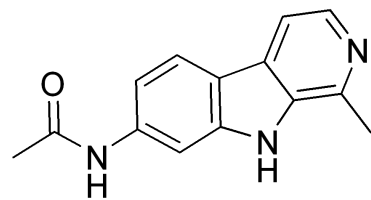
¹H-NMR of Compound 1-8



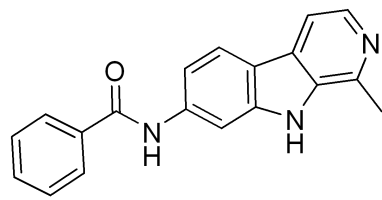
¹H-NMR of Compound 1-9



¹H-NMR of Compound 1-10



¹H-NMR of Compound 1-11



8.134
8.120
8.005
7.993
7.852
7.843
7.617
7.604
7.573
7.561
7.556
7.552
7.549
7.541
7.539

— 3.338

— 2.742

— 2.500

0.82
0.91
0.91
1.81
0.88
0.97
2.73

3.00

[rel]

60

40

20

0

8

6

4

2

[ppm]

¹H-NMR of Compound 1-12

