

Organocatalytic asymmetric cyanation of isatin derived *N*-Boc ketoimines

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Supporting Information

(Part II)

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¹H and ¹³C NMR spectra of product 10, 13, 14b, 8c, 9c, spirohydantoin I	38-51

¹H, ¹³C NMR and ¹⁹F NMR spectra were recorded on 400 MHz. Chemical shifts are reported in ppm from CDCl₃, (CD₃)₂SO or D₂O with the solvent resonance as the internal standard. The following abbreviations were used to designate chemical shift multiplicities: s = singlet, d = doublet, t = triplet, q = quartet, h = heptet, m = multiplet, br = broad. Coupling constants, *J*, are reported in Hertz.

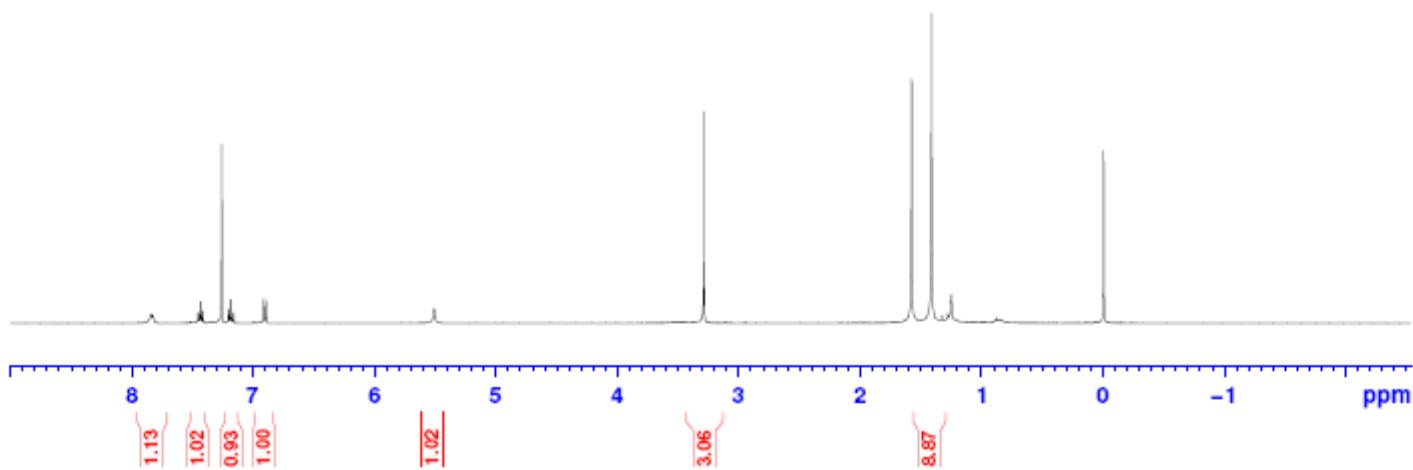
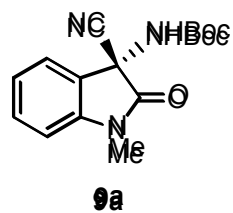
7.846
7.829
7.456
7.453
7.436
7.434
7.417
7.414
7.260
7.204
7.202
7.185
7.183
7.166
7.164
6.913
6.893
— 5.510

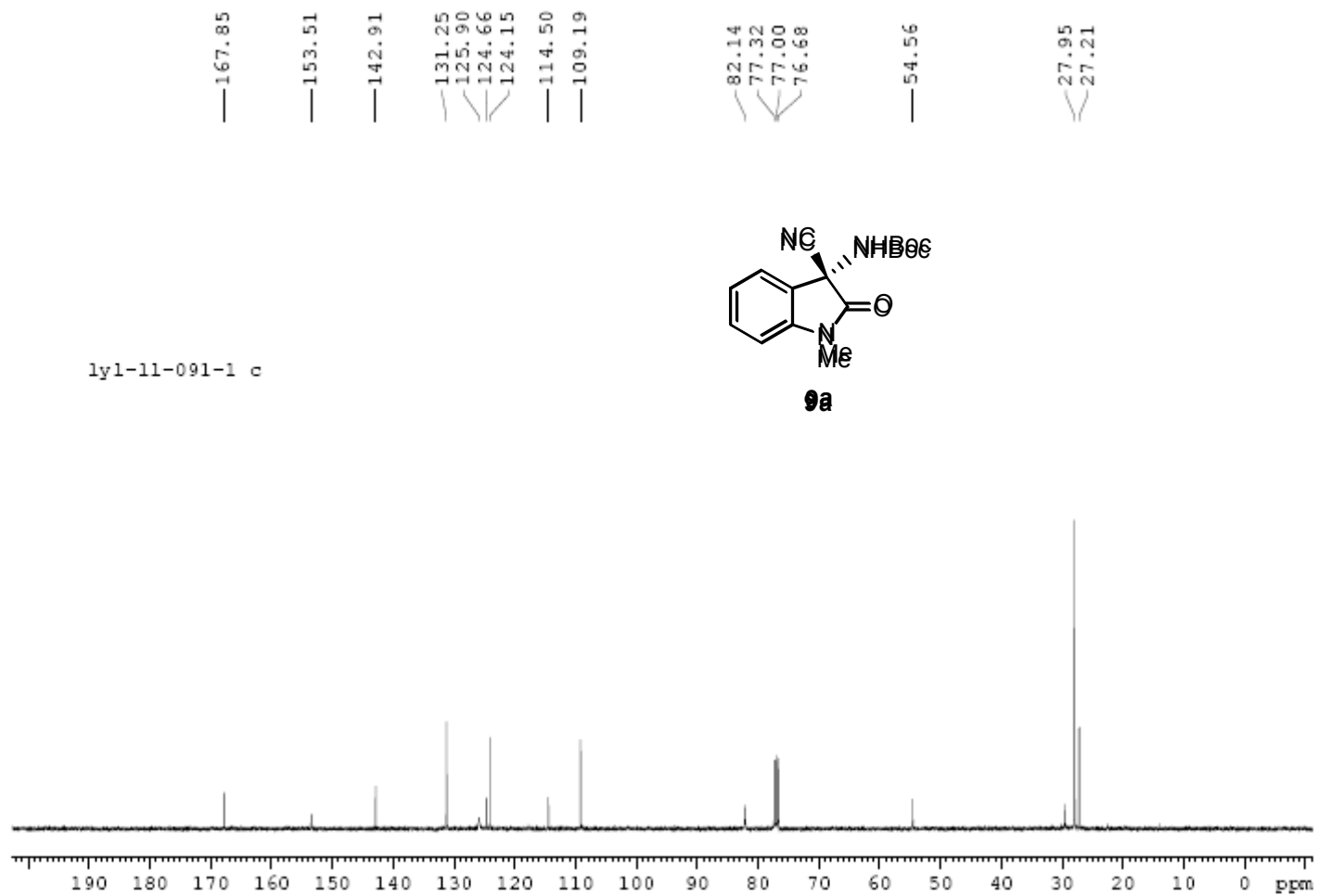
— 3.287

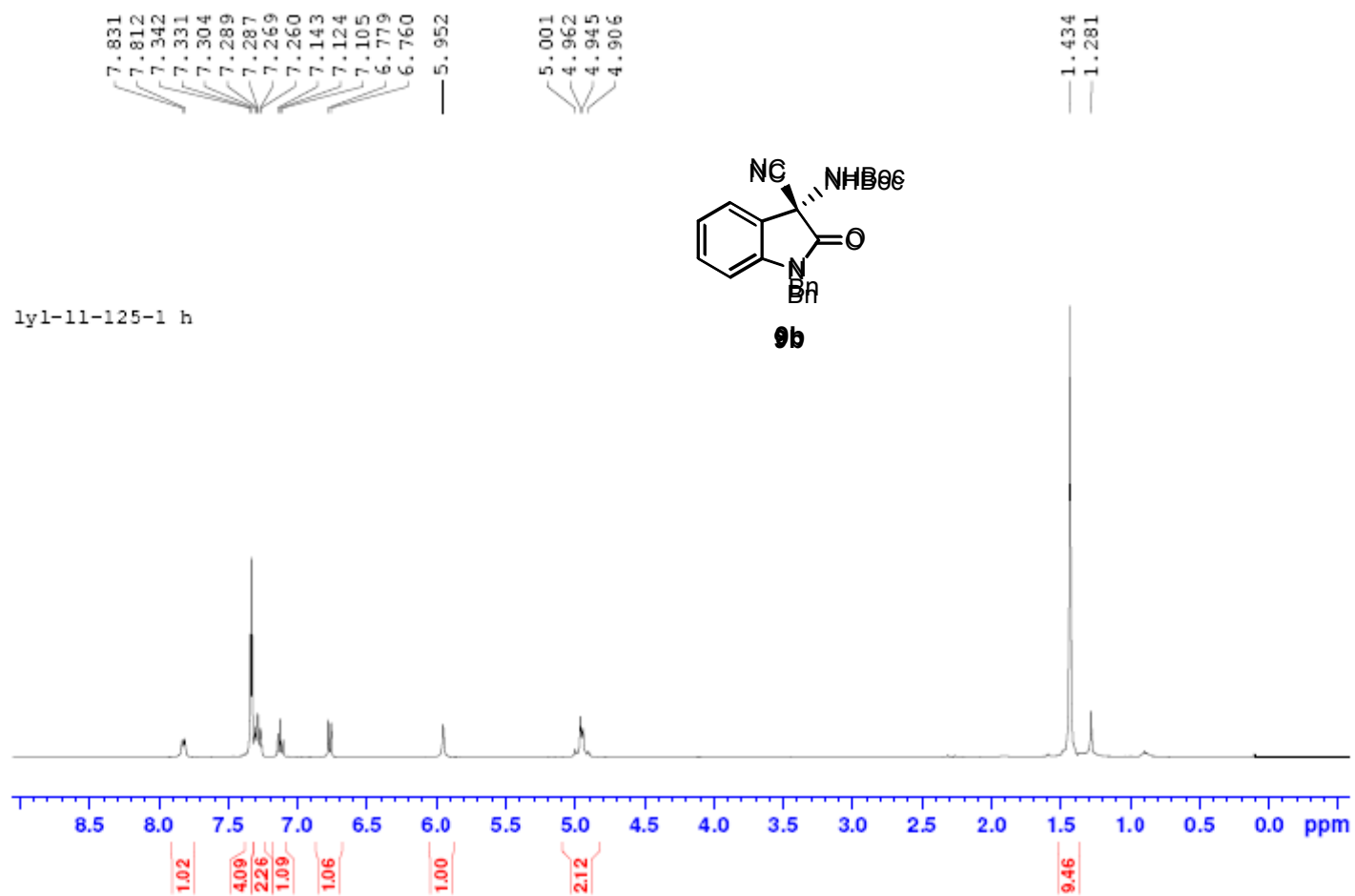
1.579
1.415
1.251

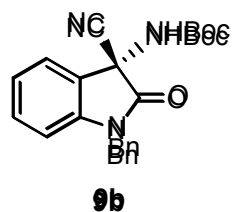
— -0.003

1y1-11-091 h

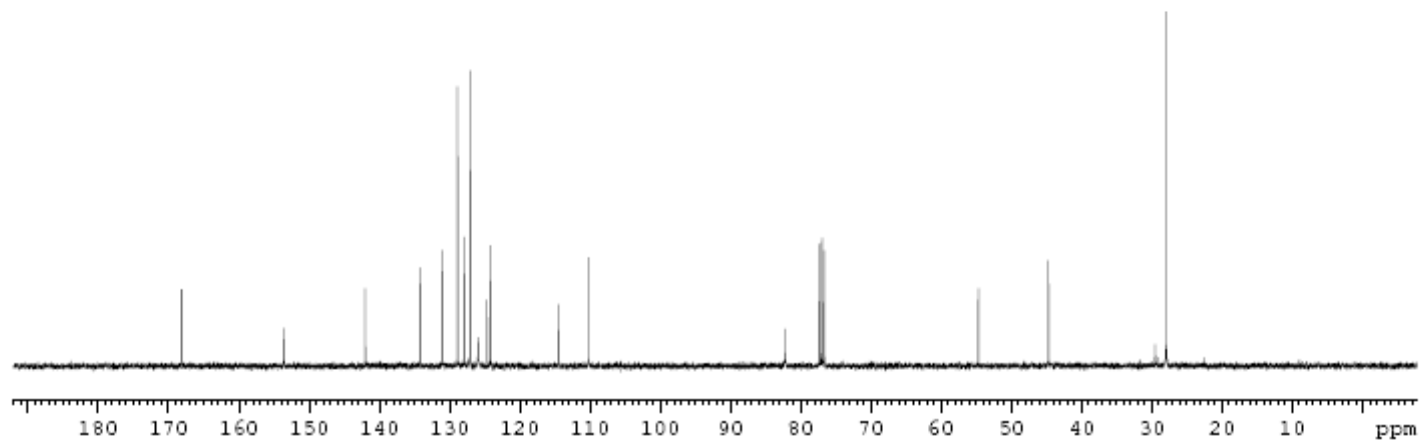


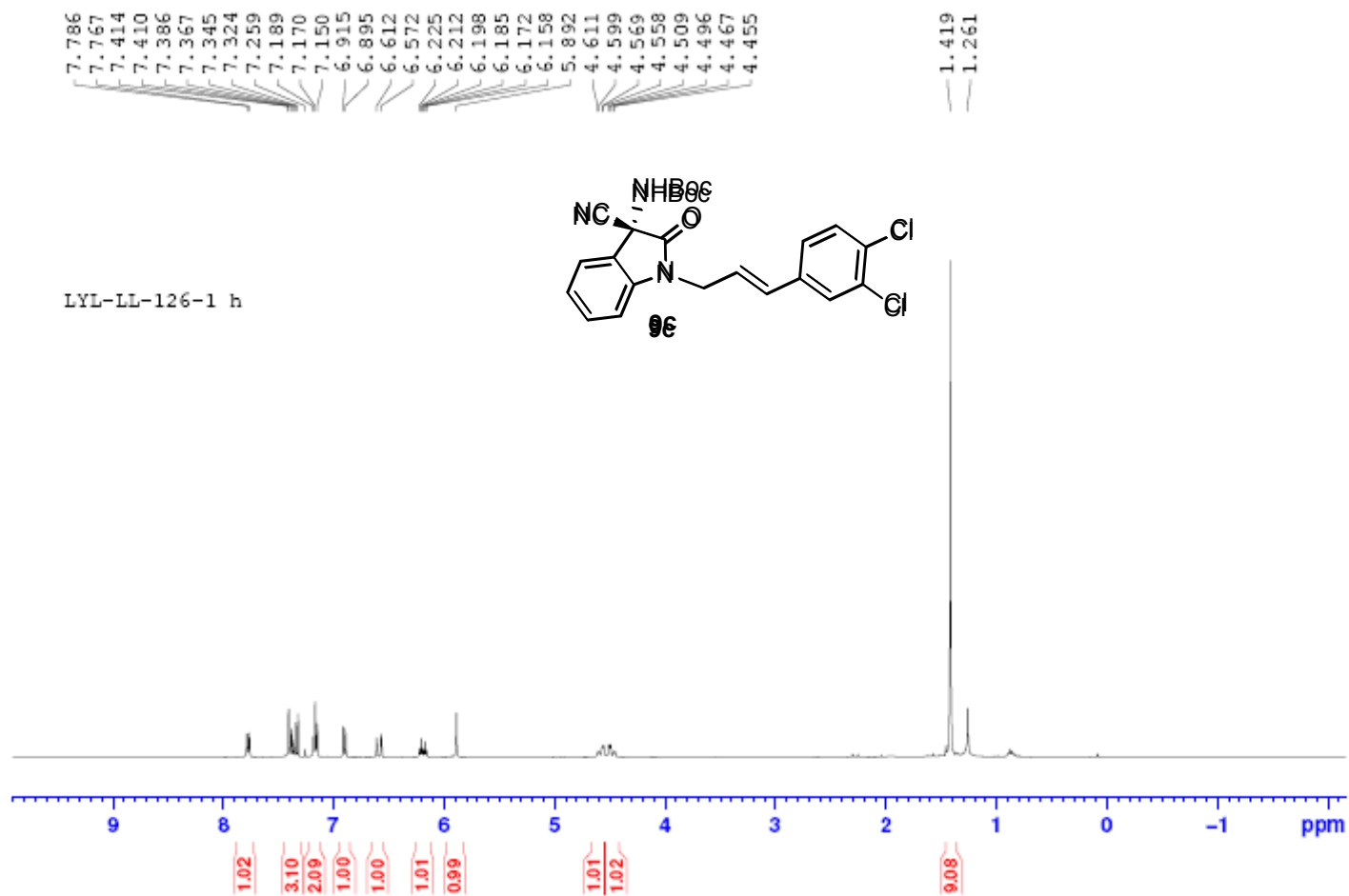


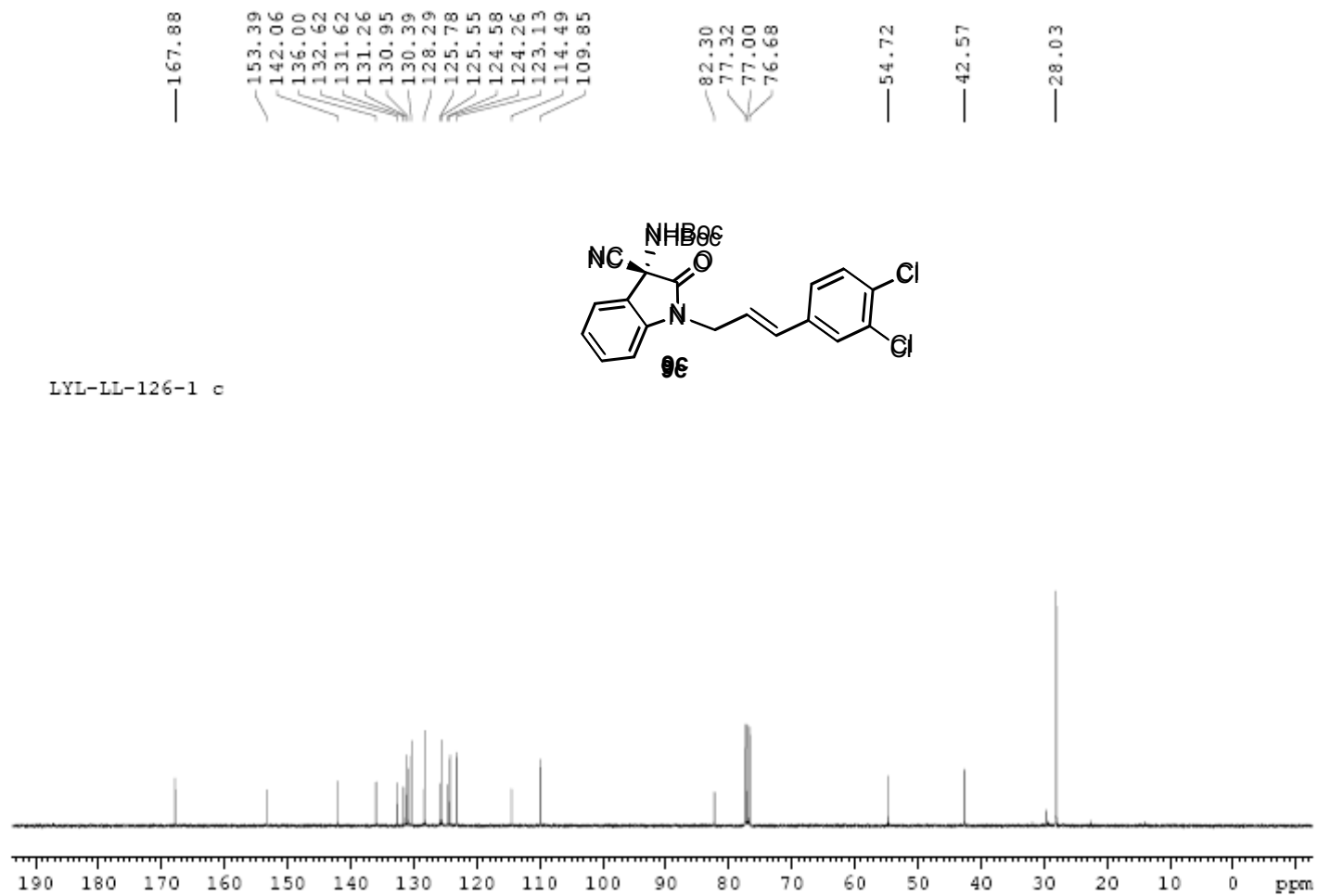


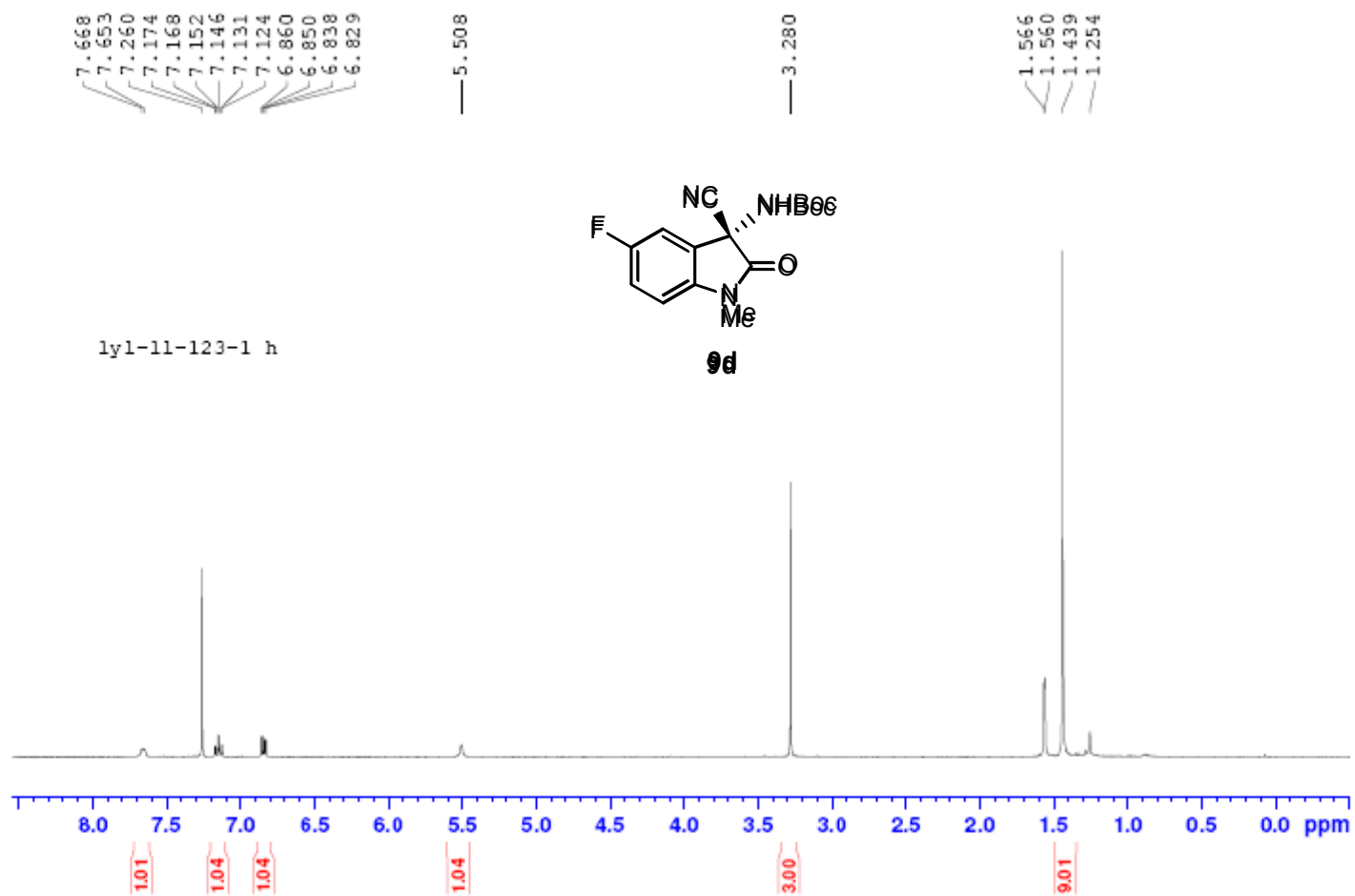


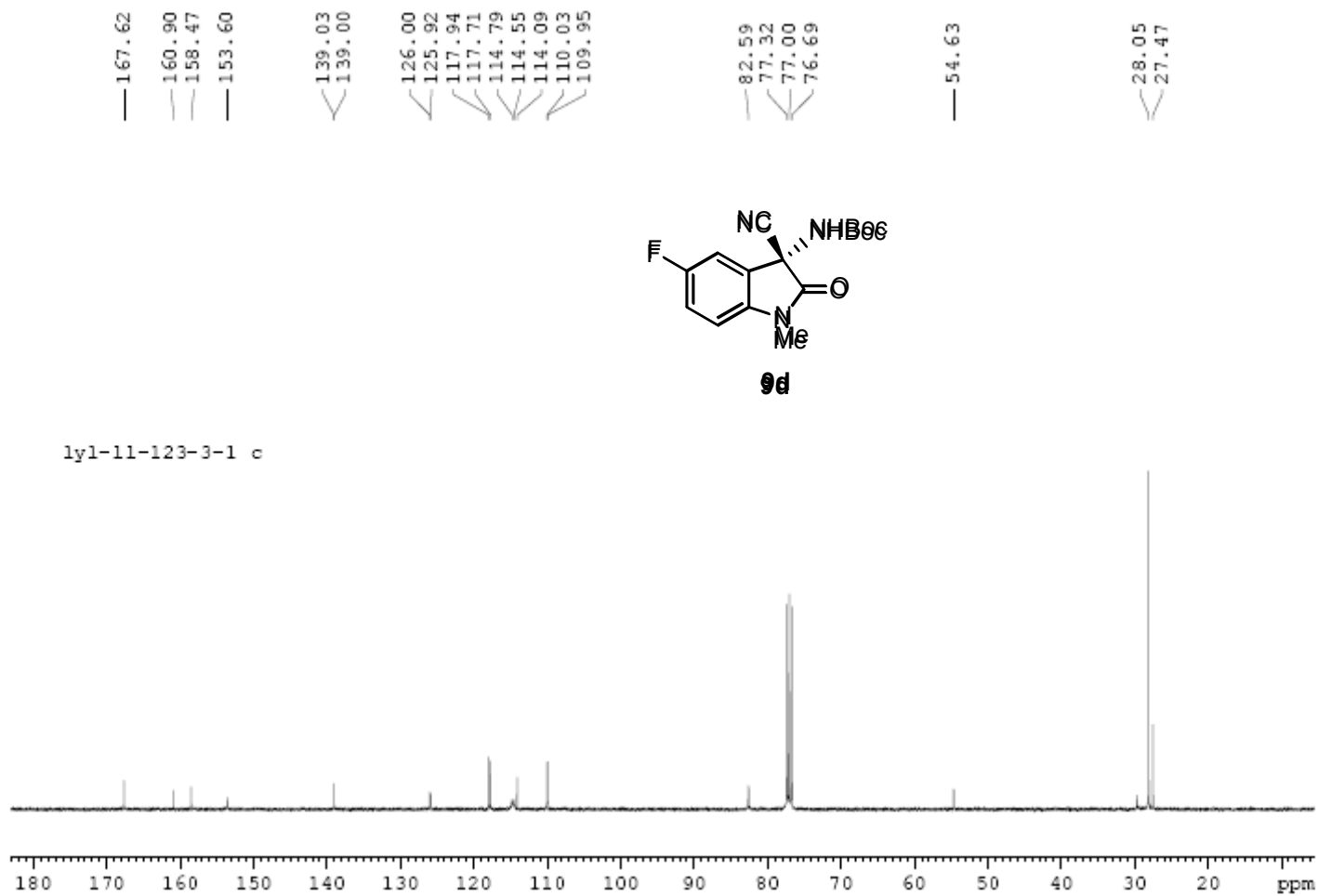
ly1-11-125-1 c

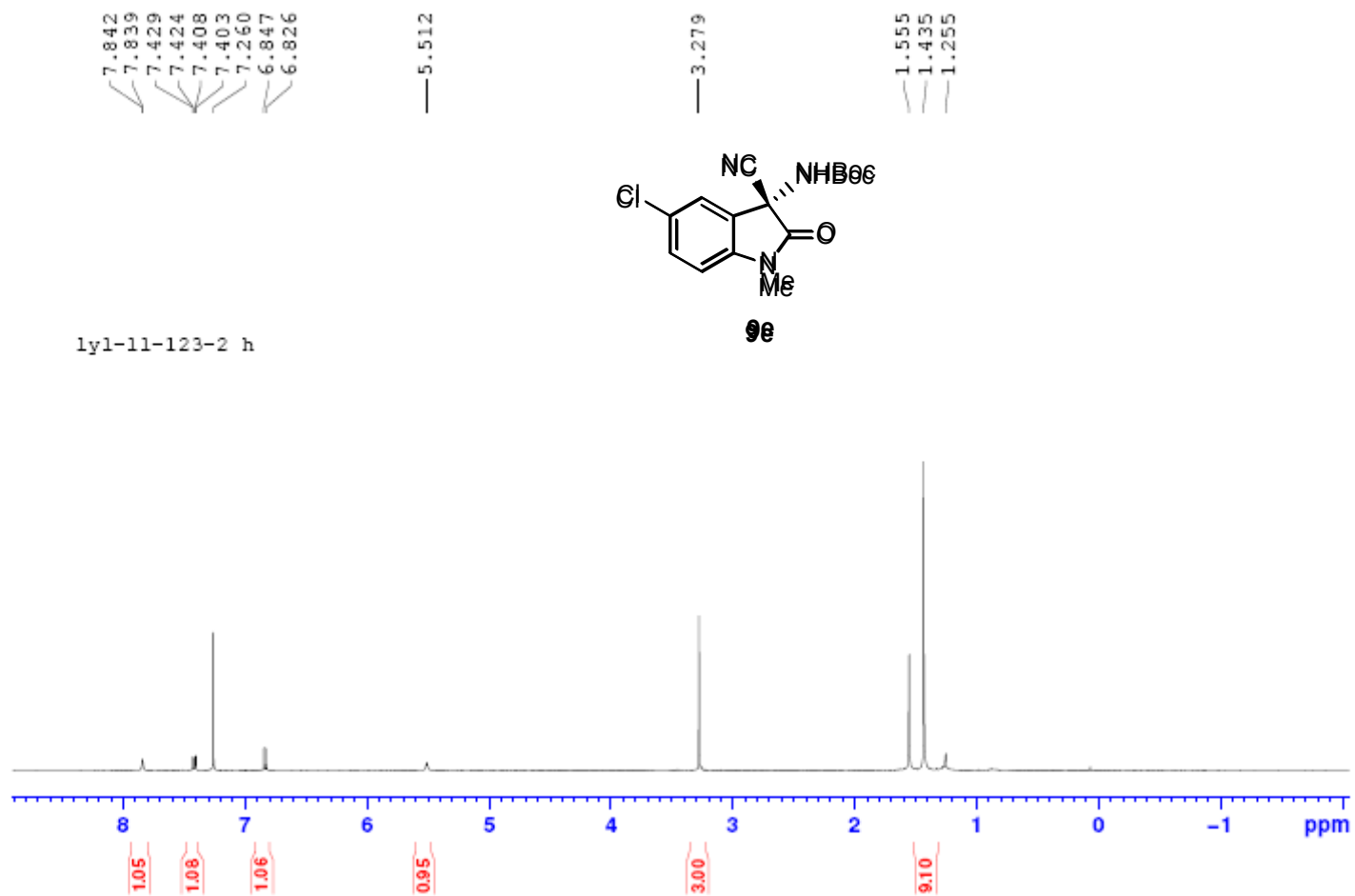


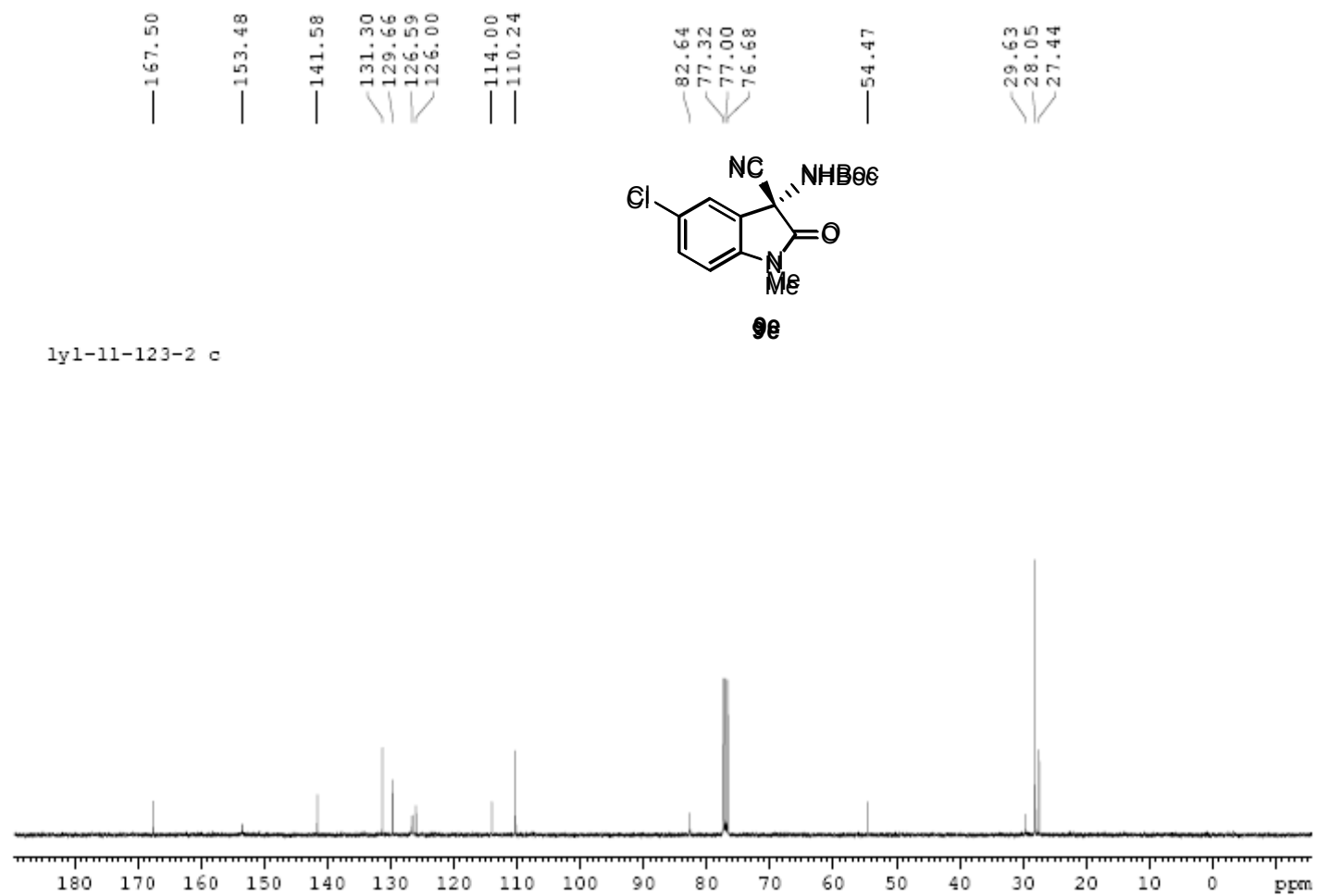


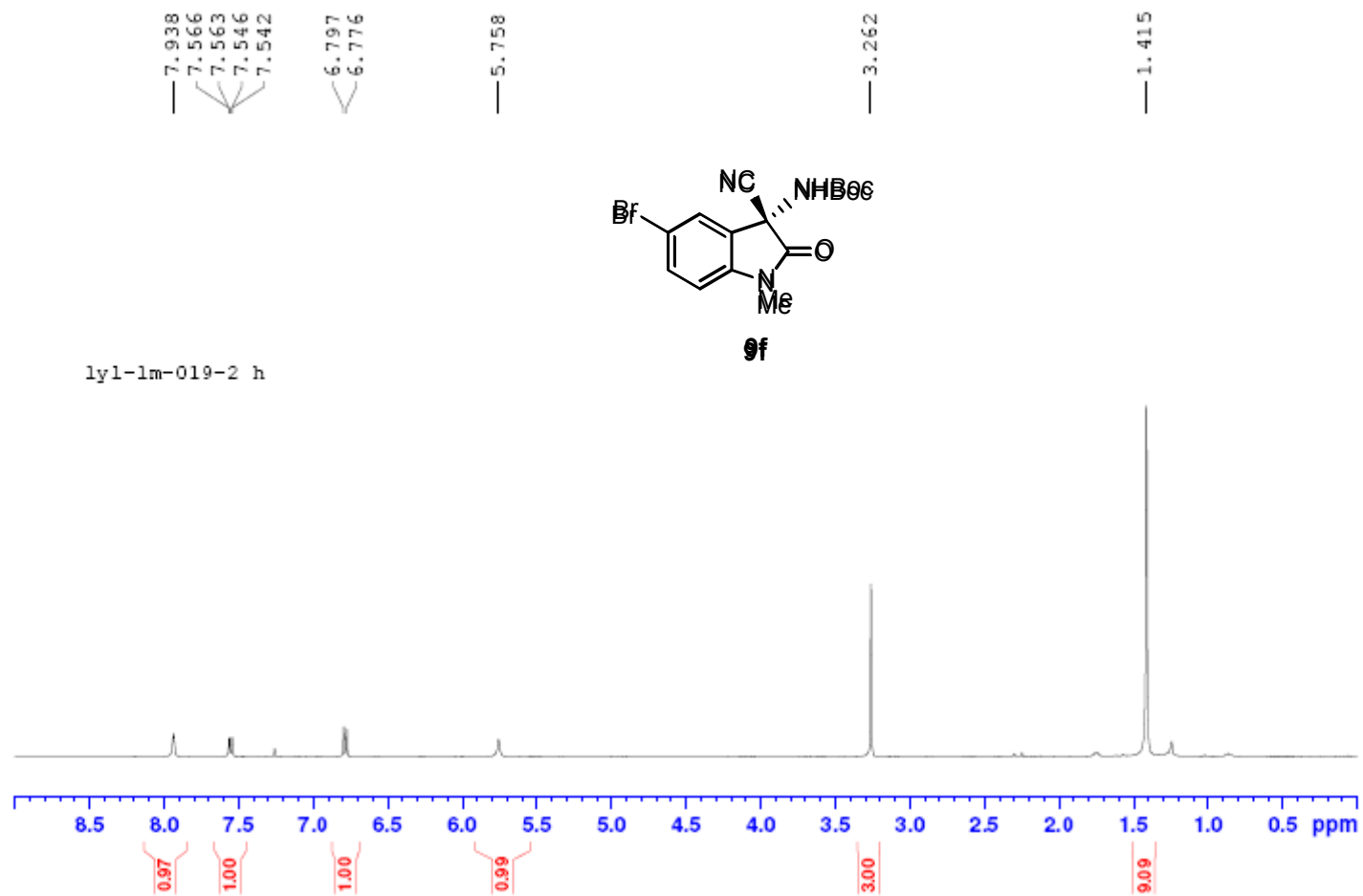


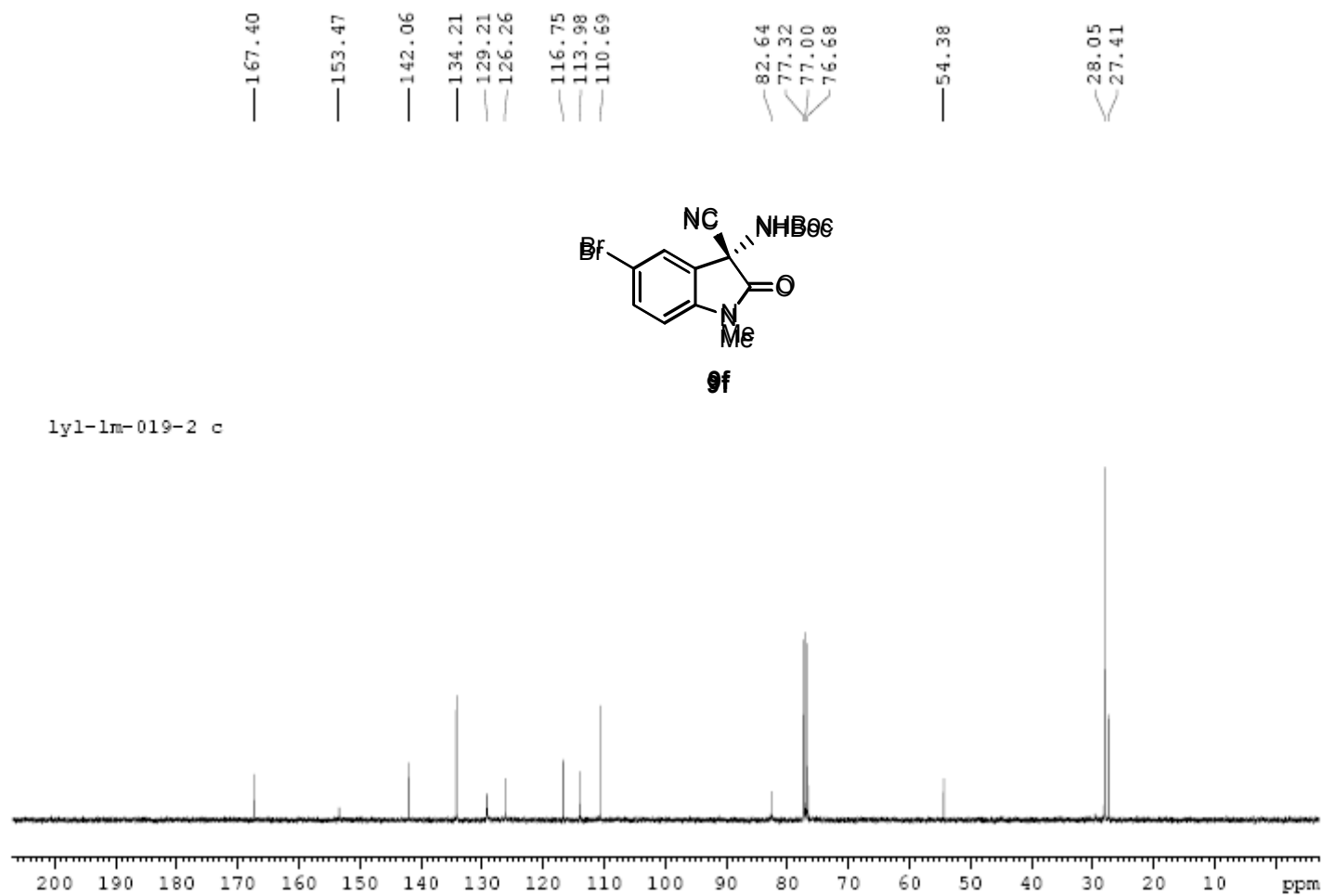


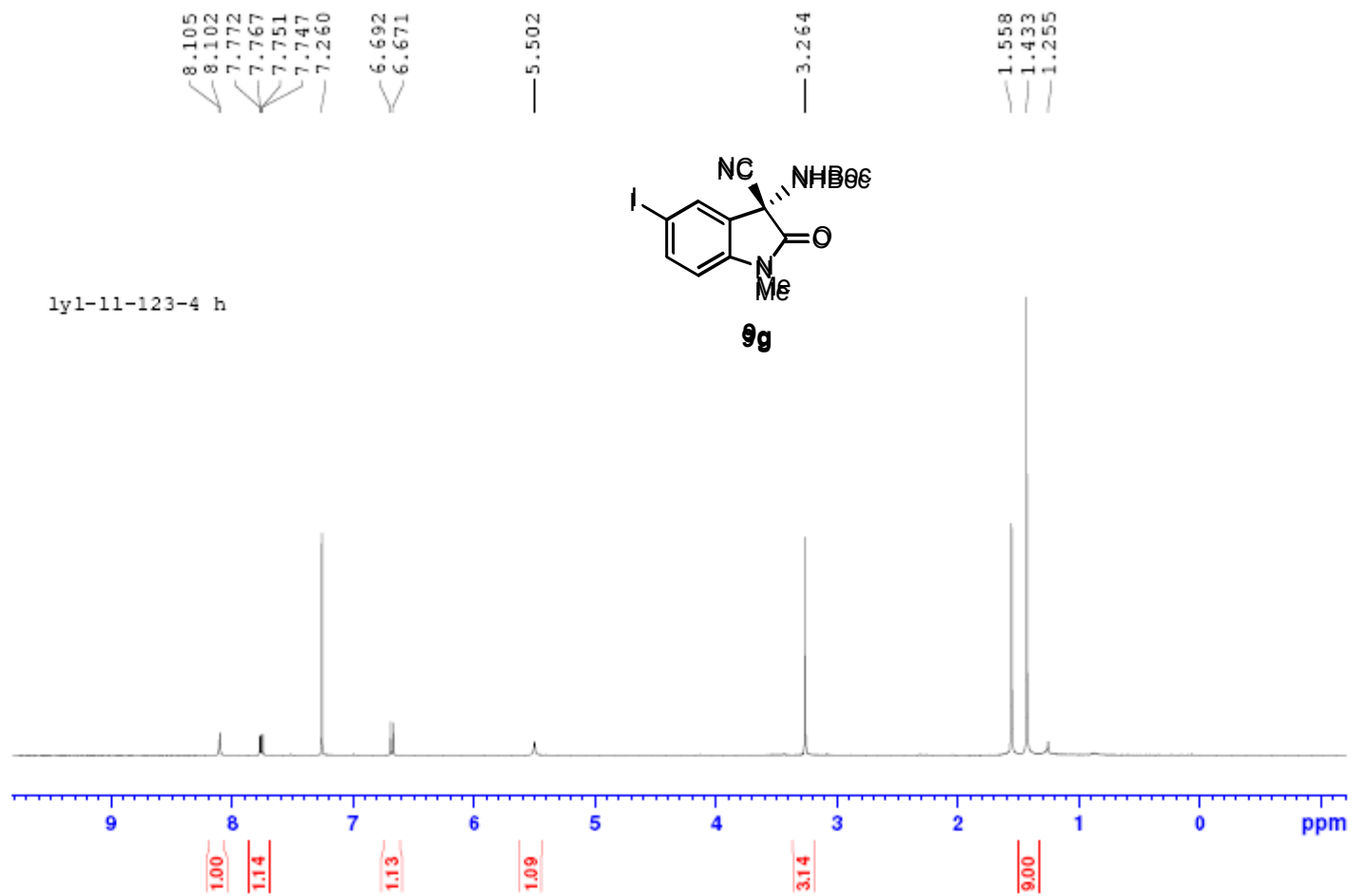


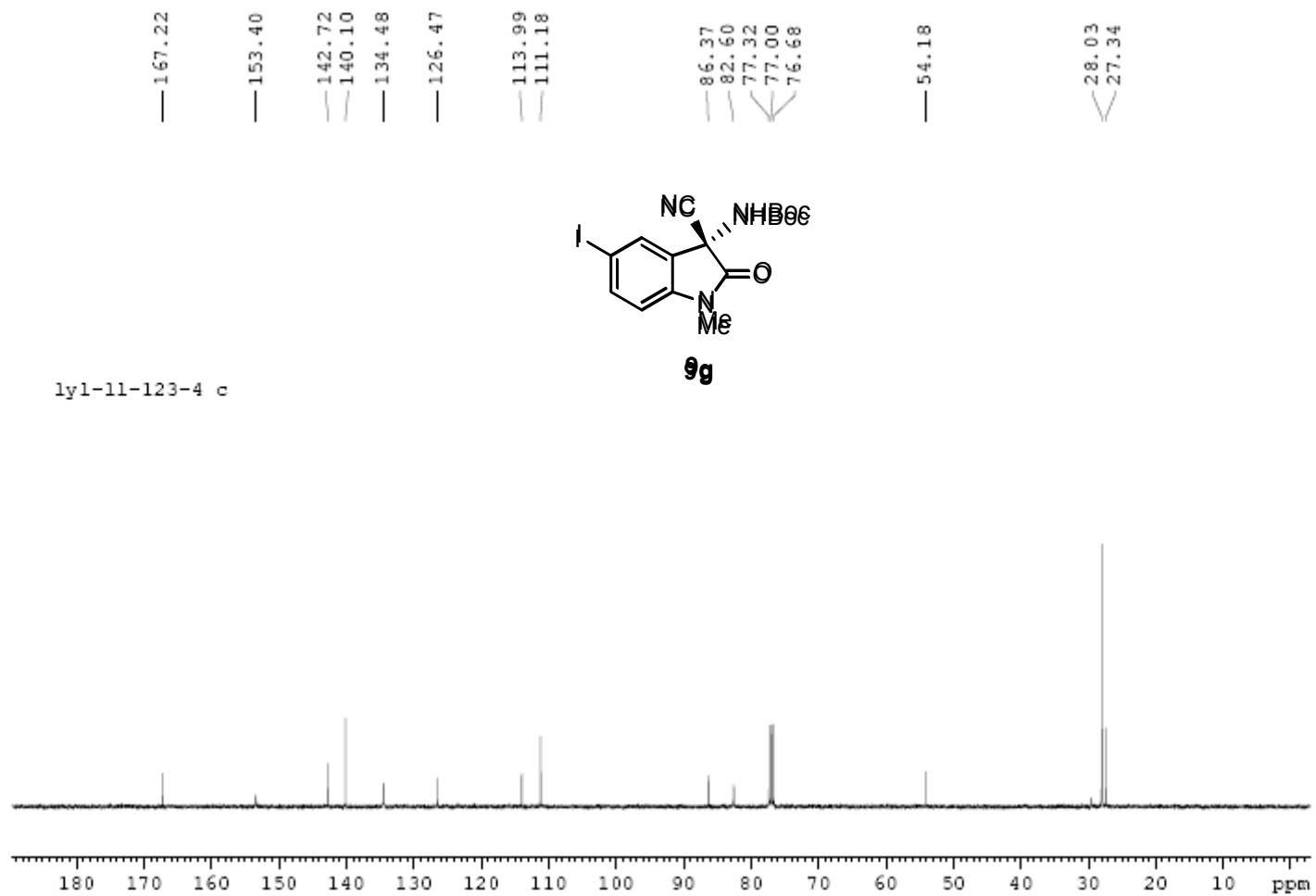


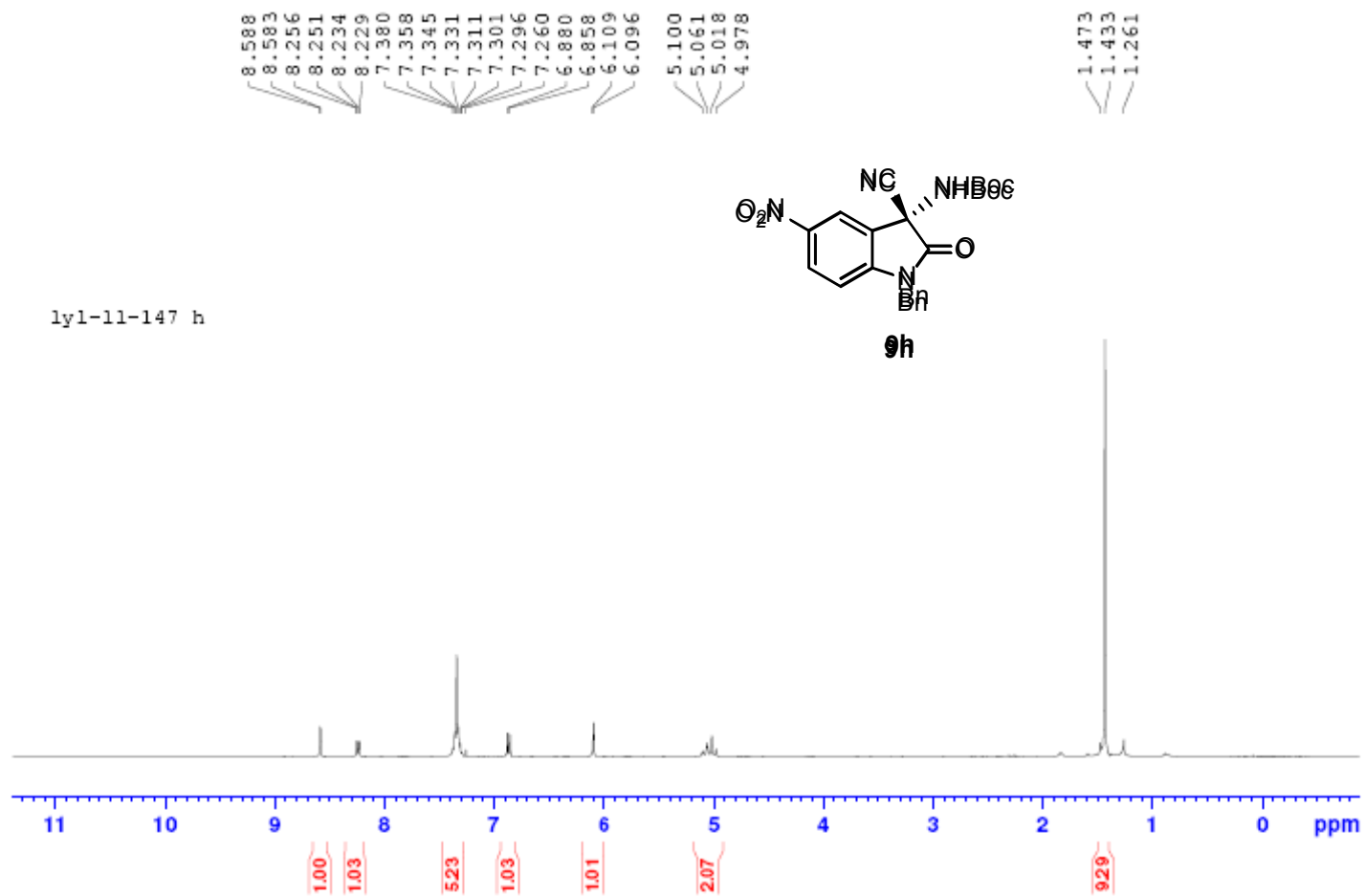


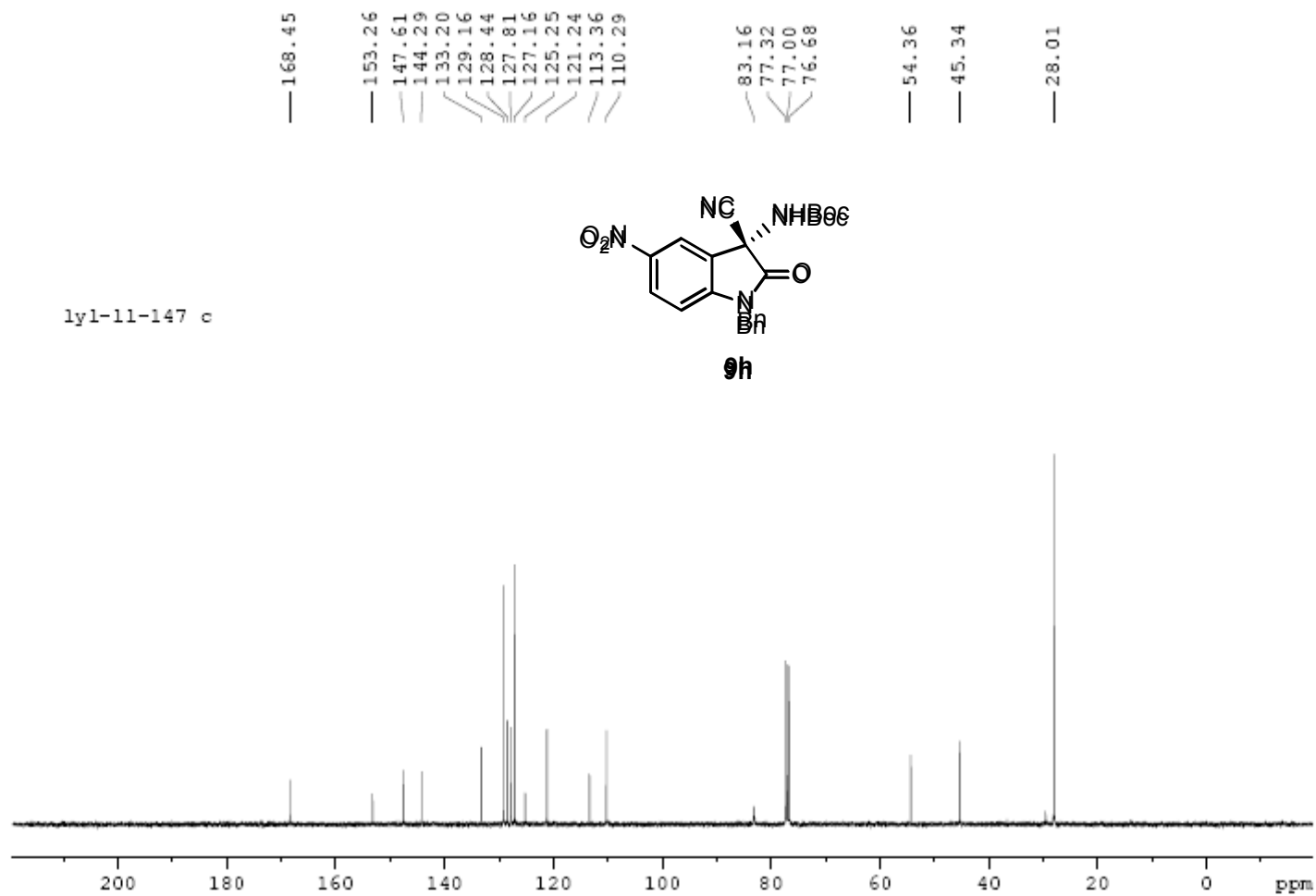


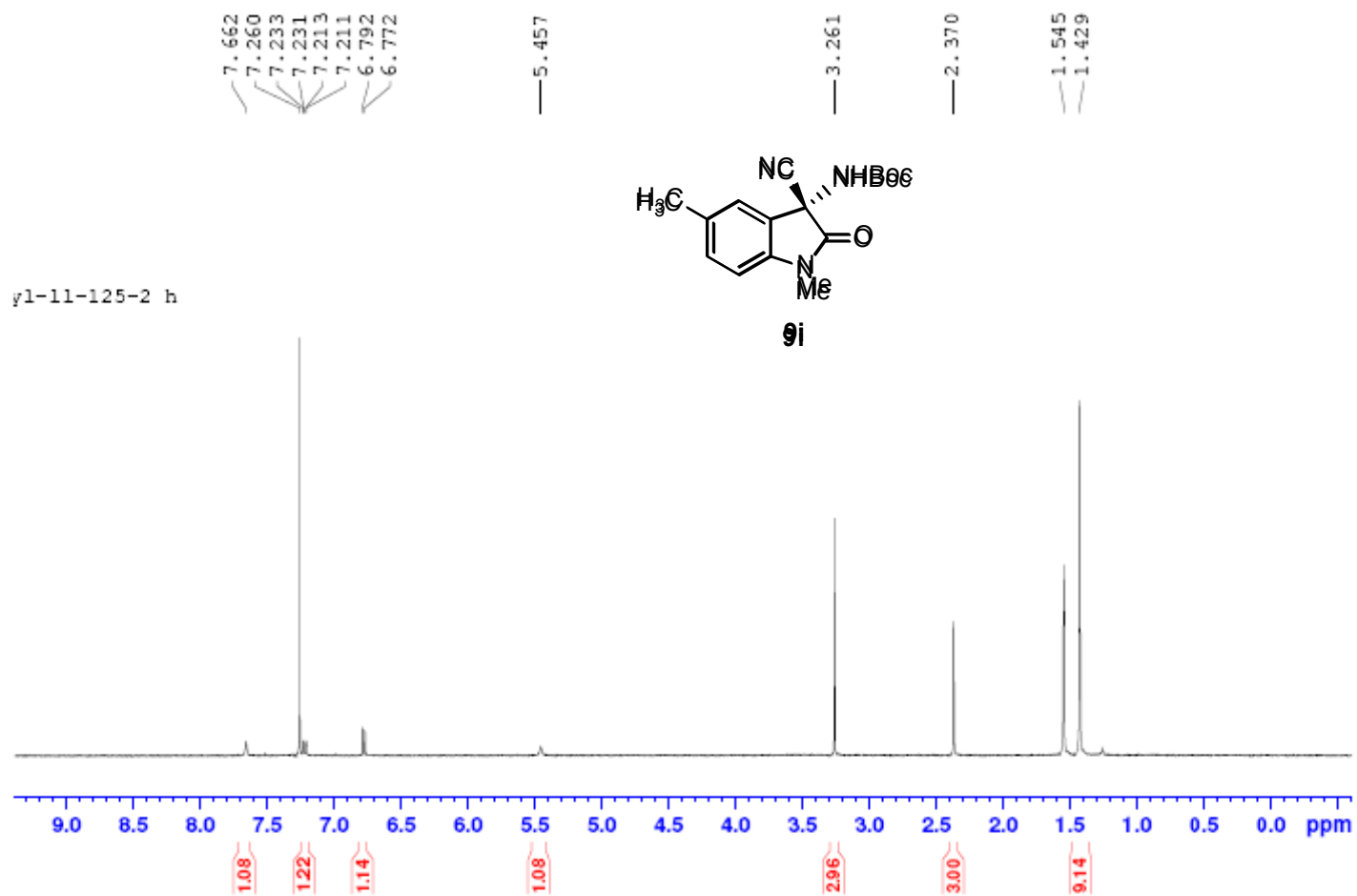


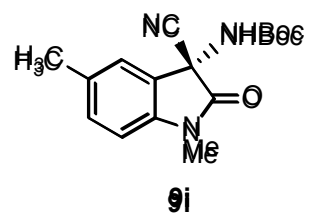




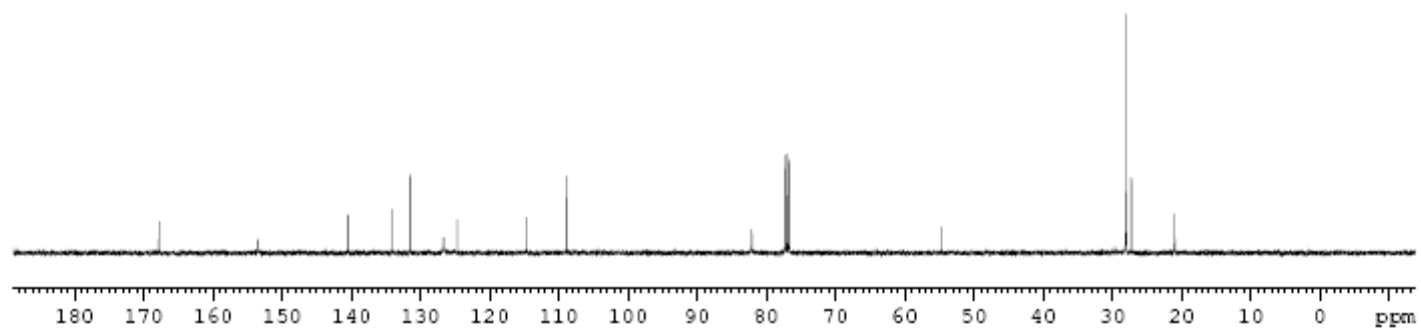


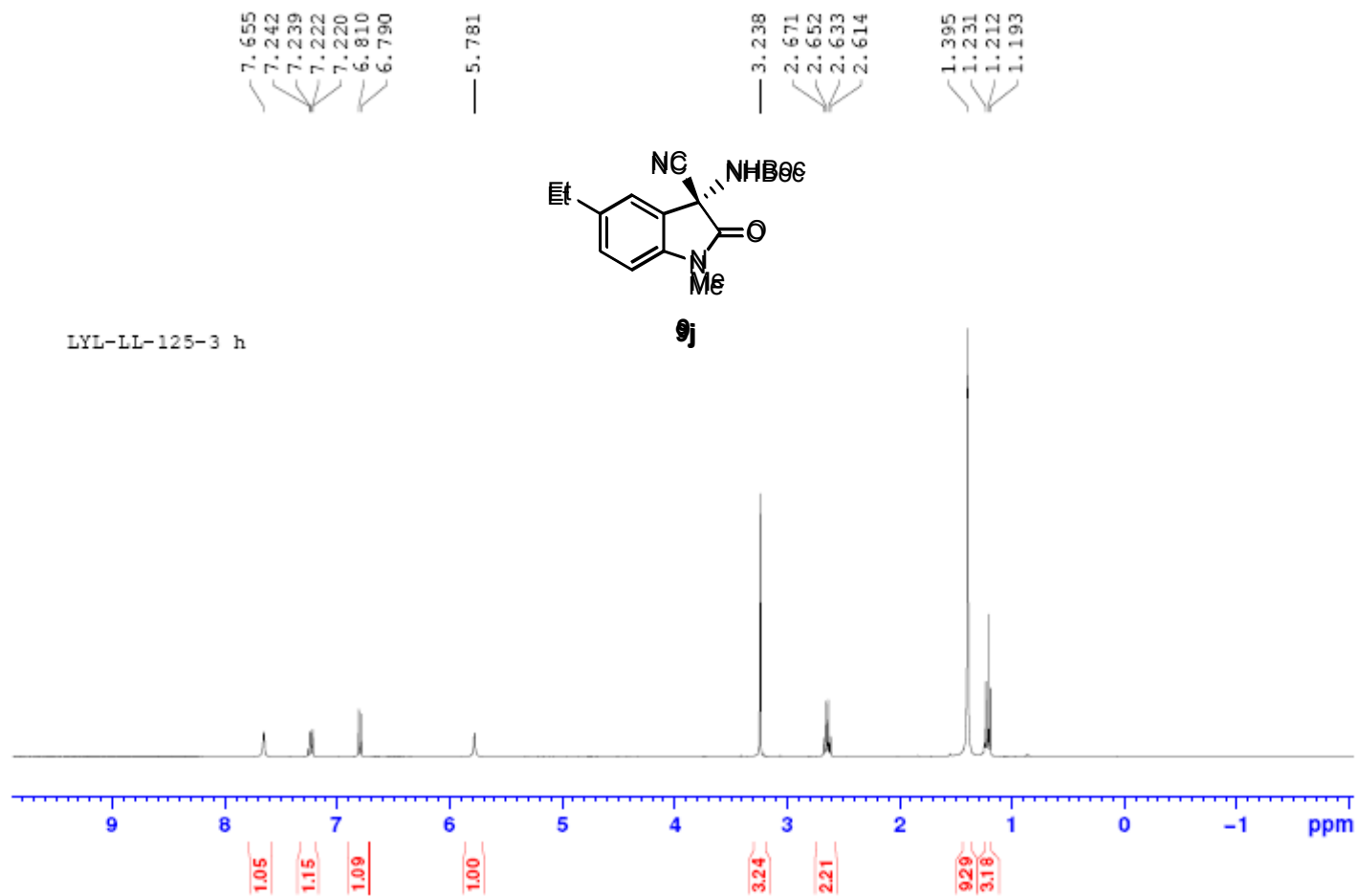


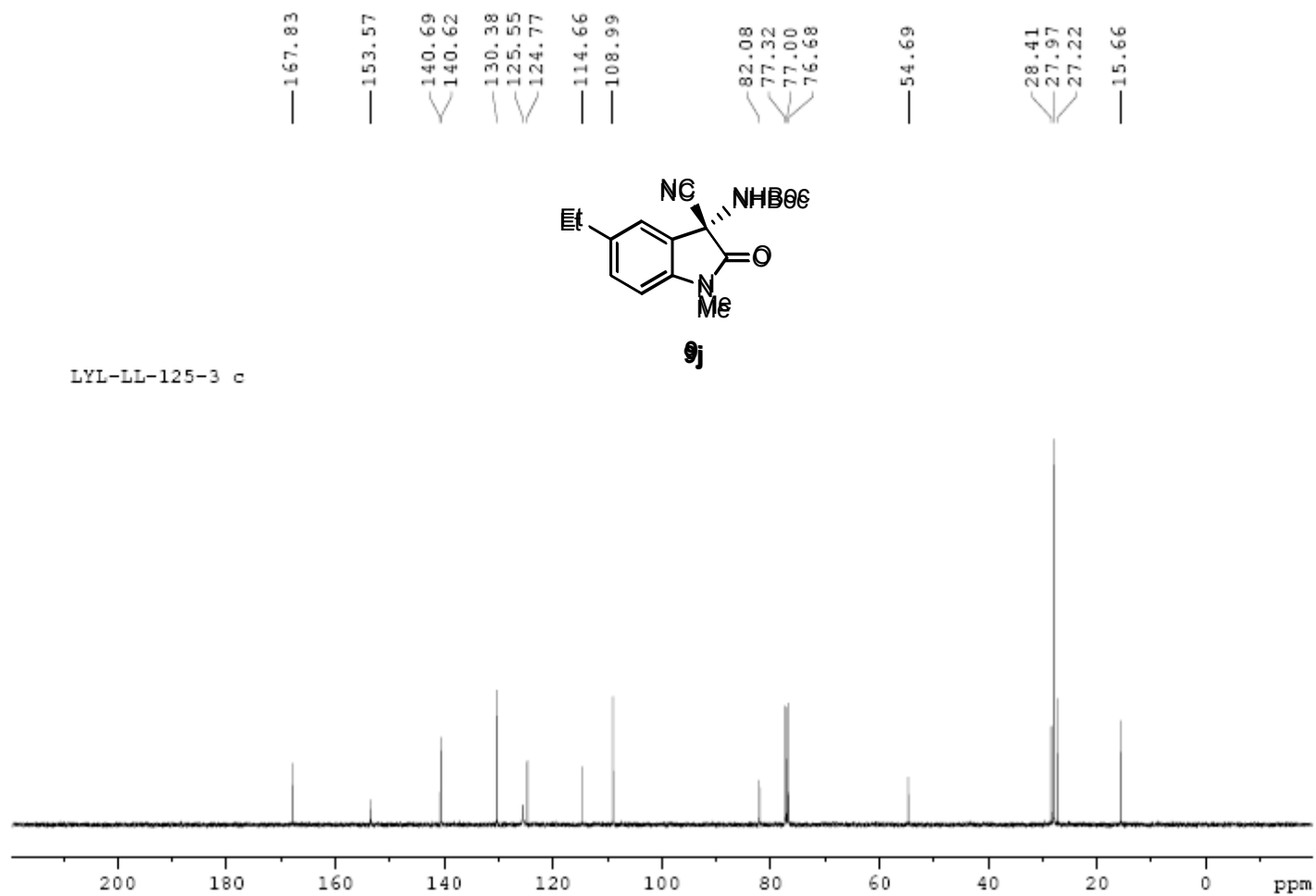


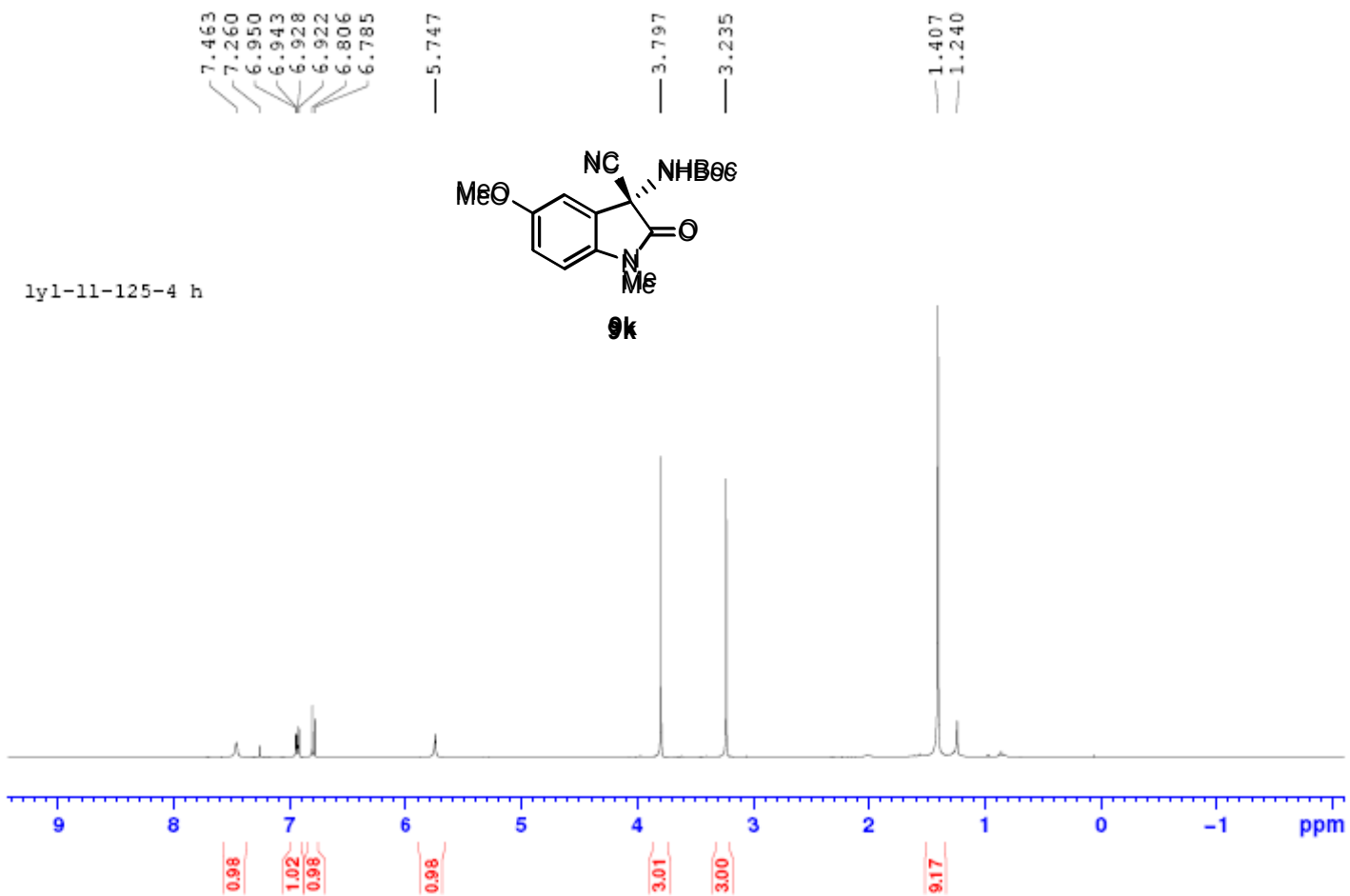


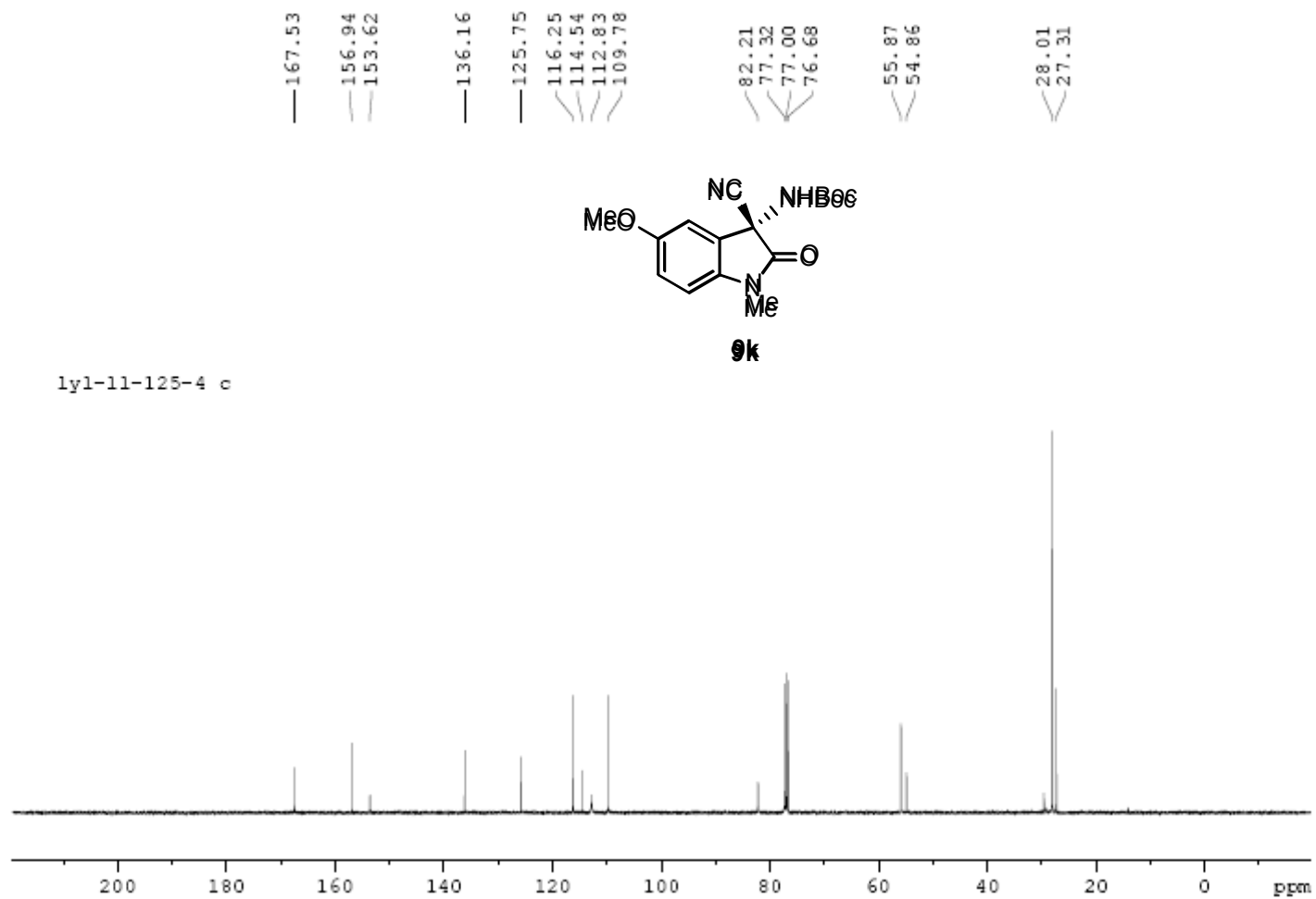
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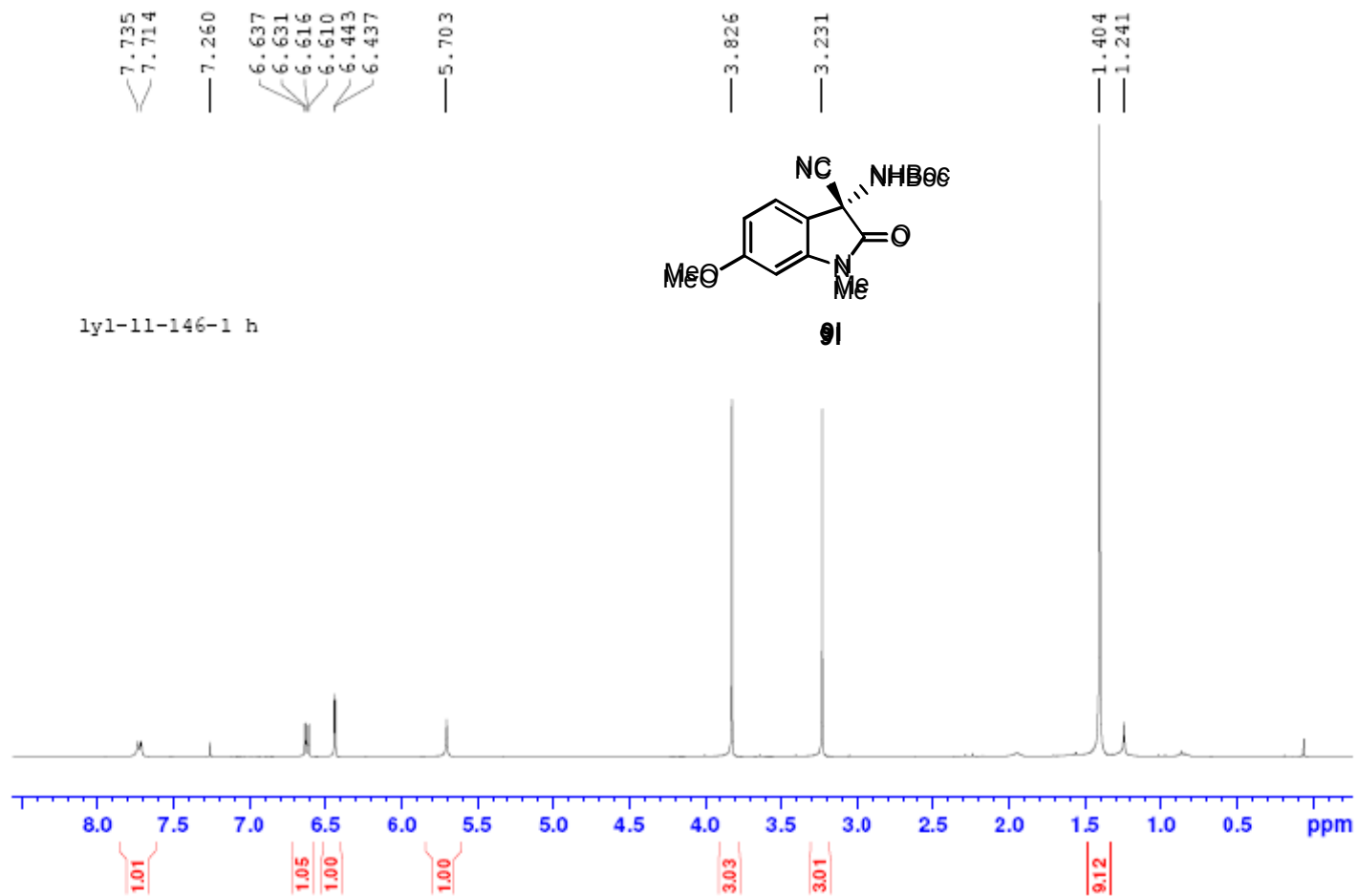












—168.38
—162.32
—153.63
—144.41

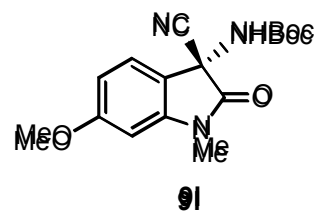
—127.32
116.53
114.79
—107.80

—97.12

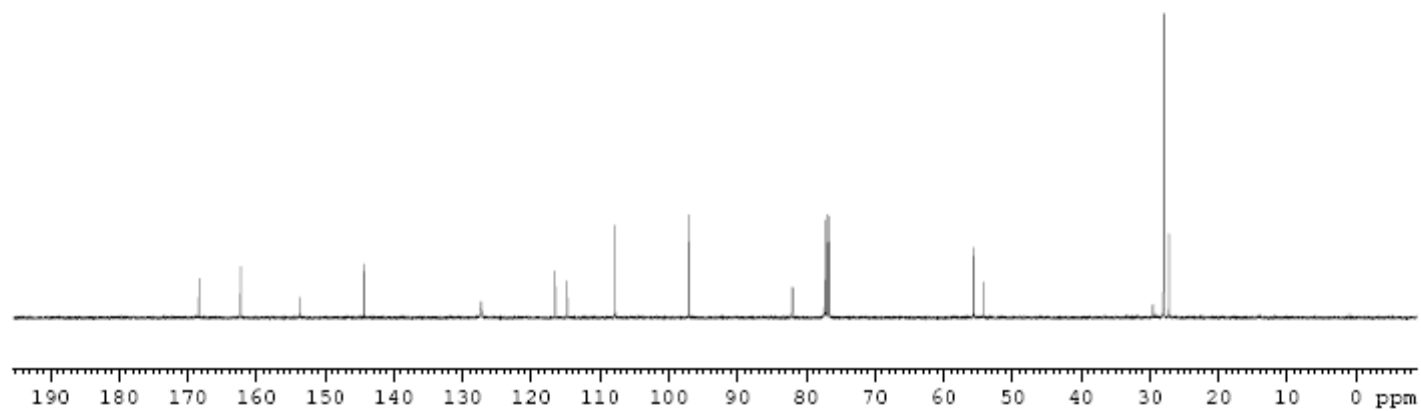
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77.32
77.00
76.68

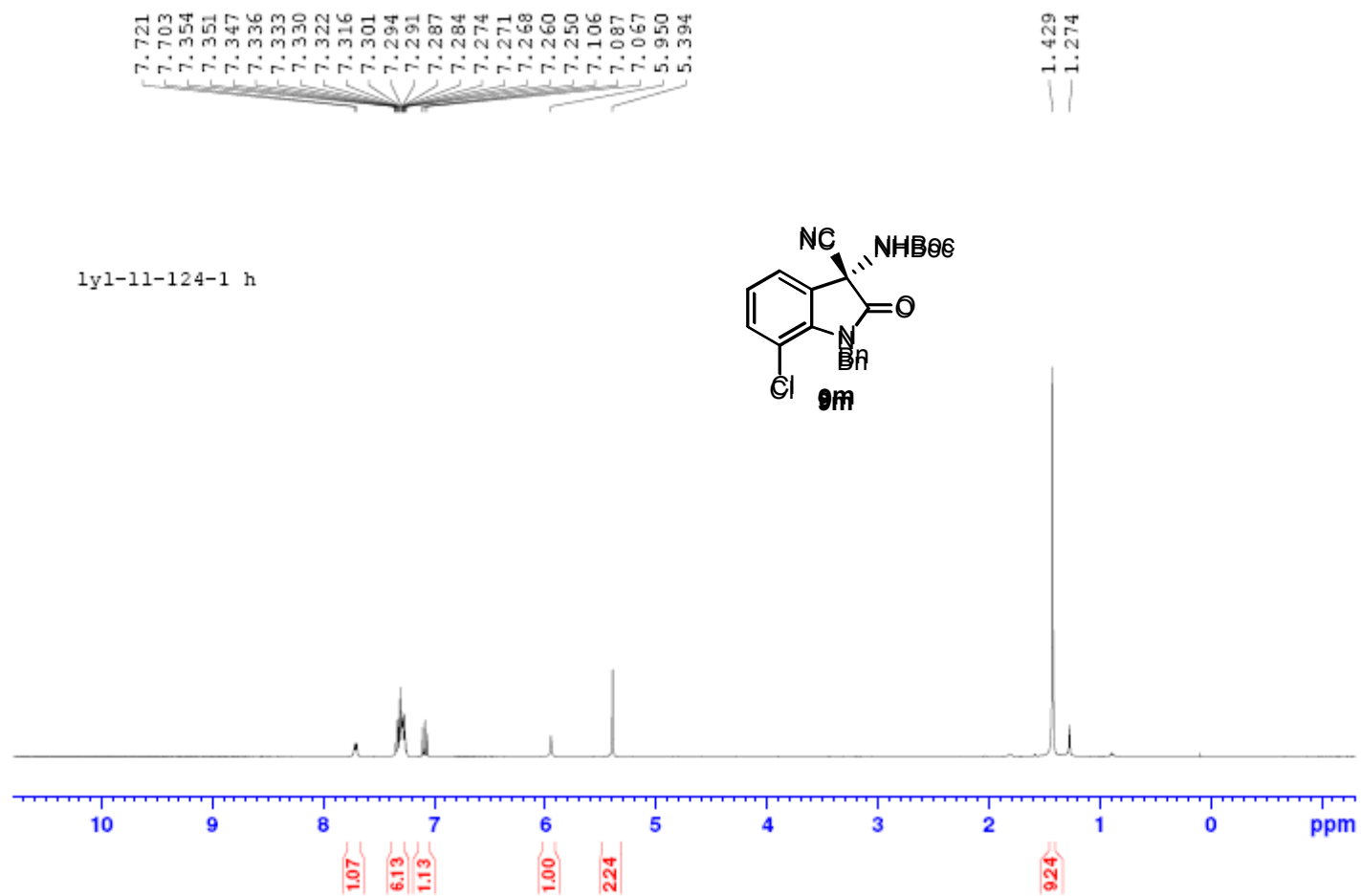
55.62
54.26

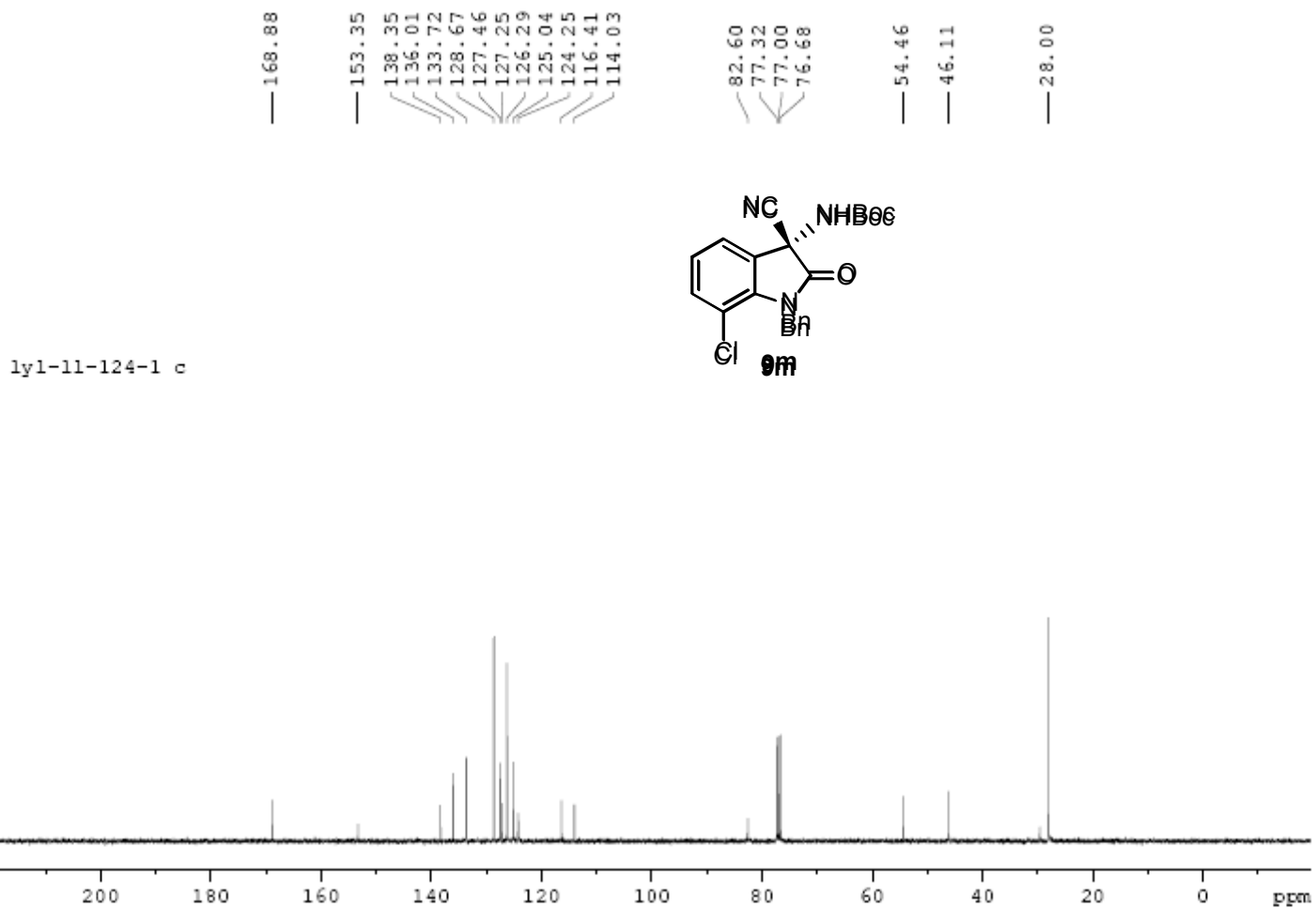
28.02
27.22

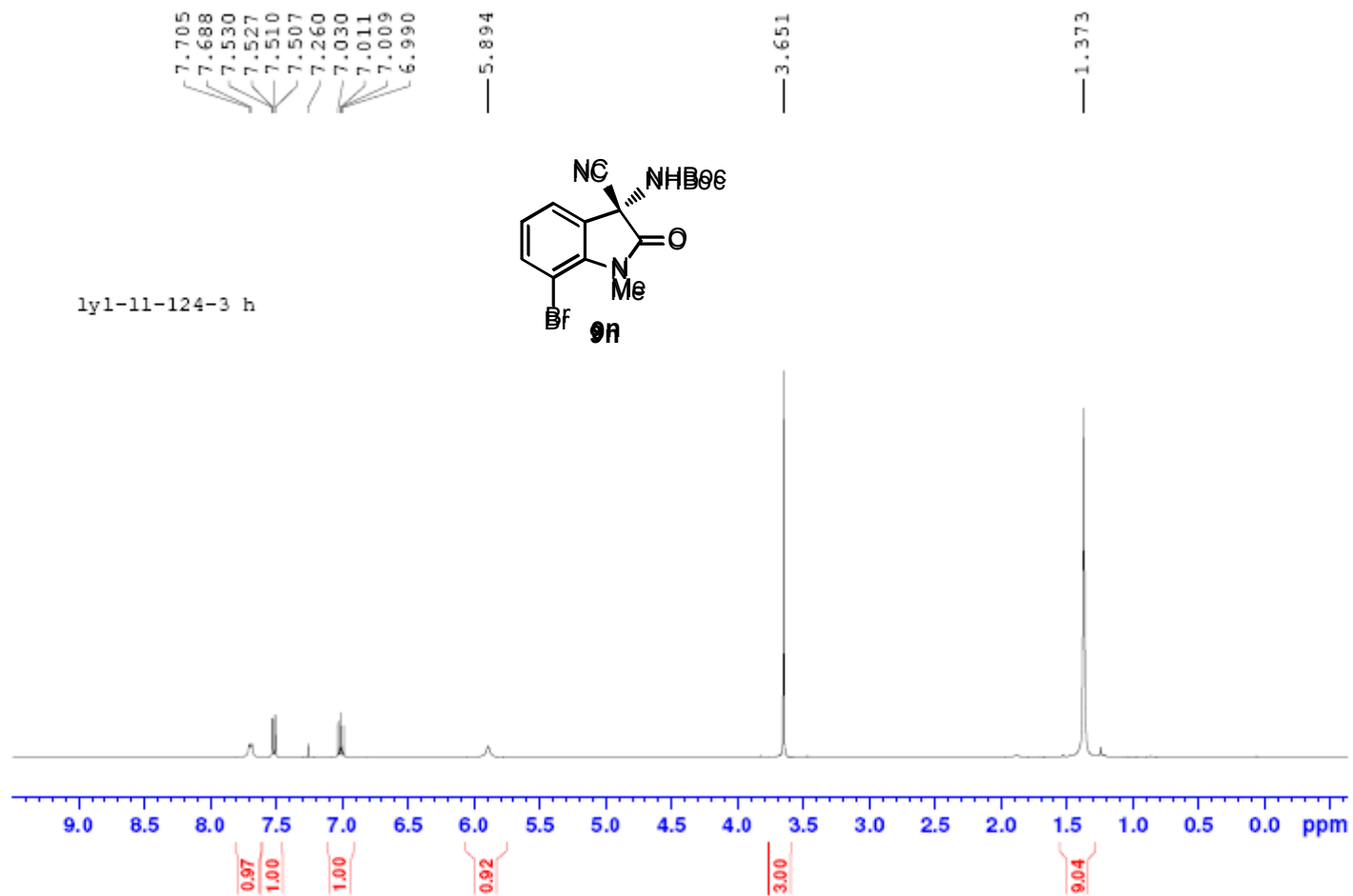


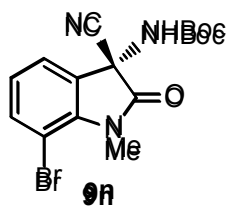
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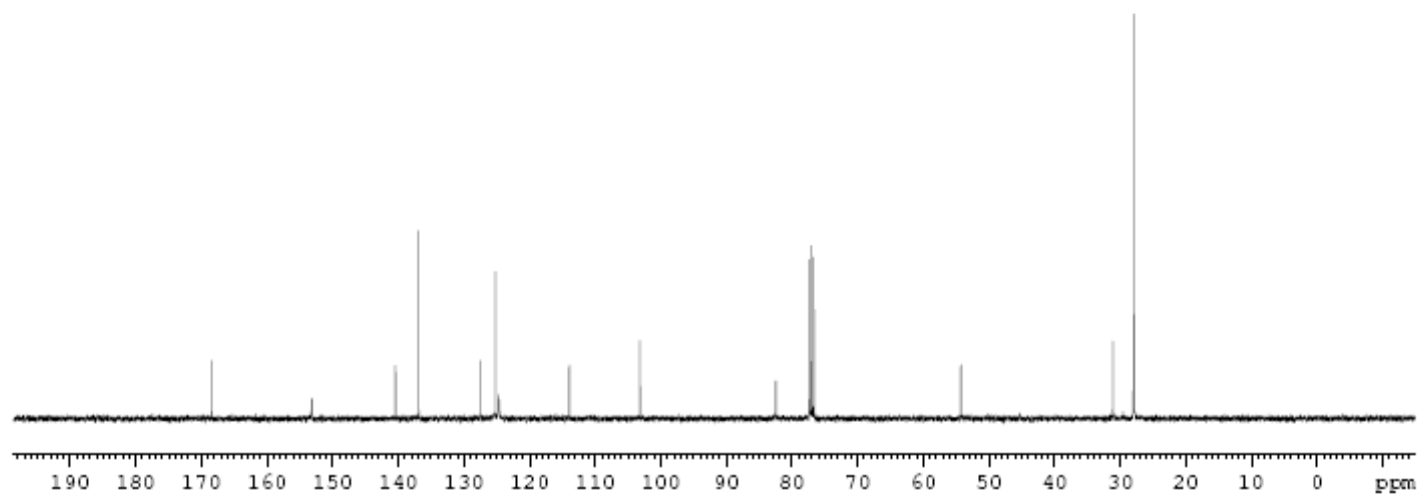


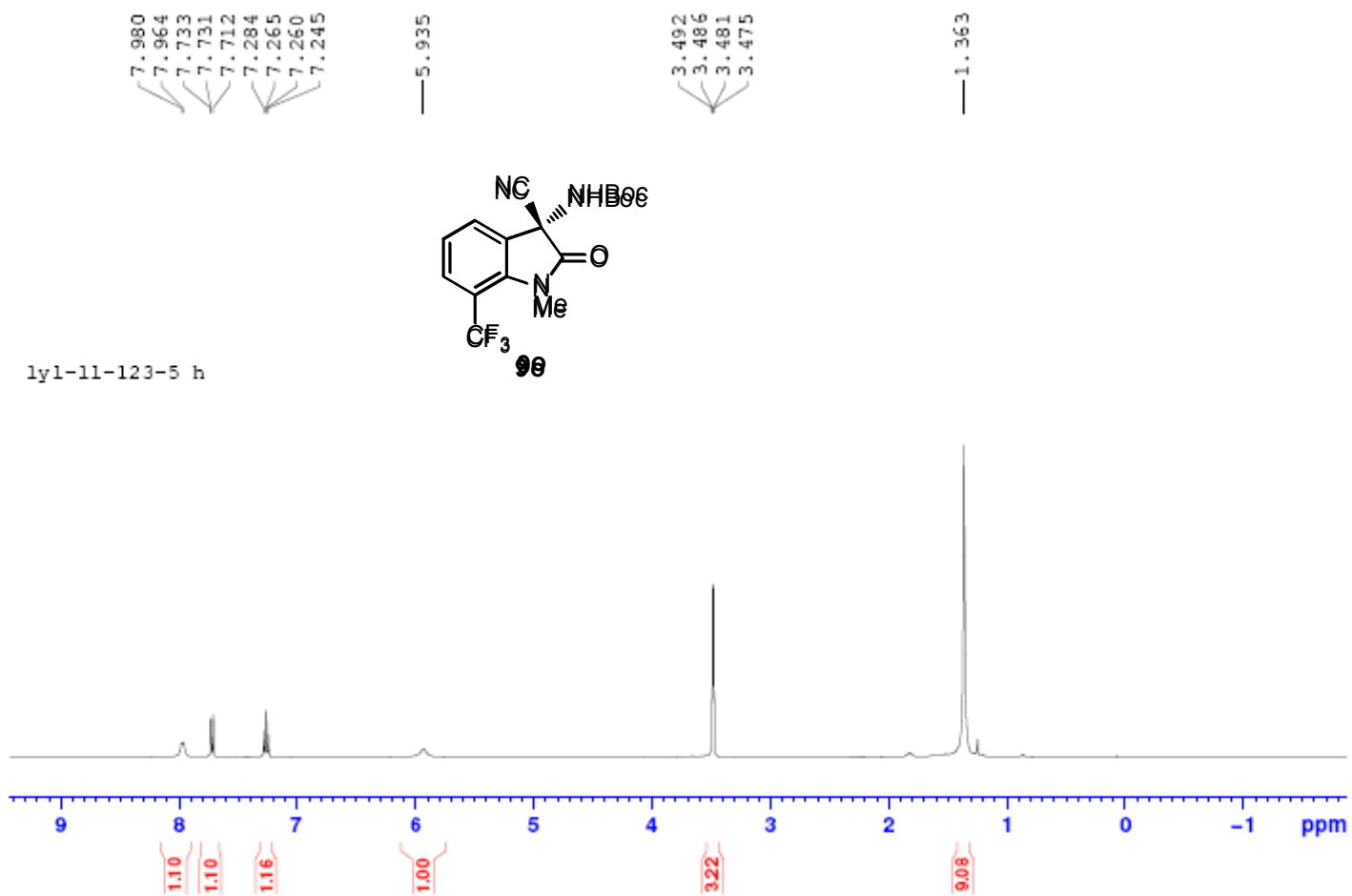


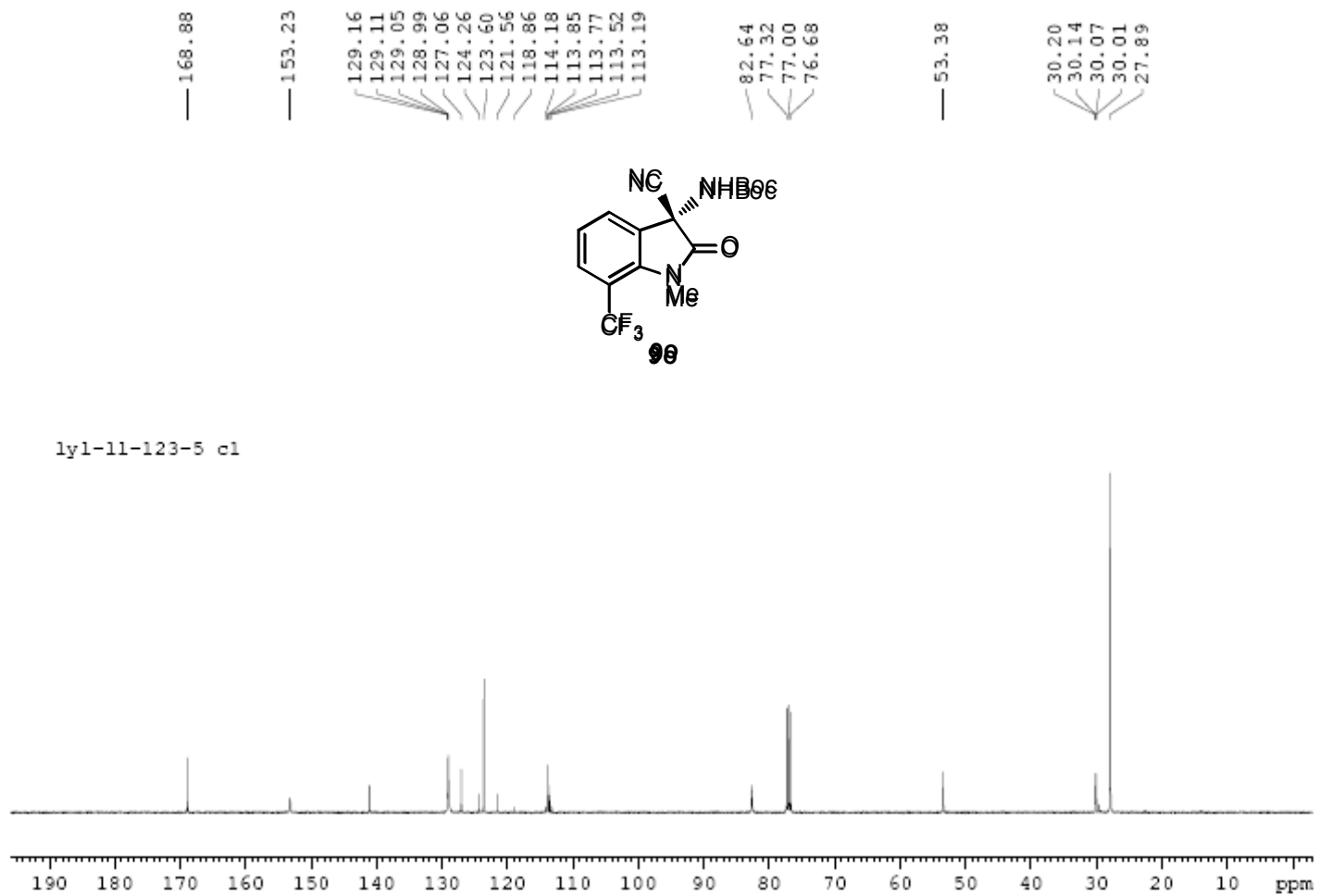


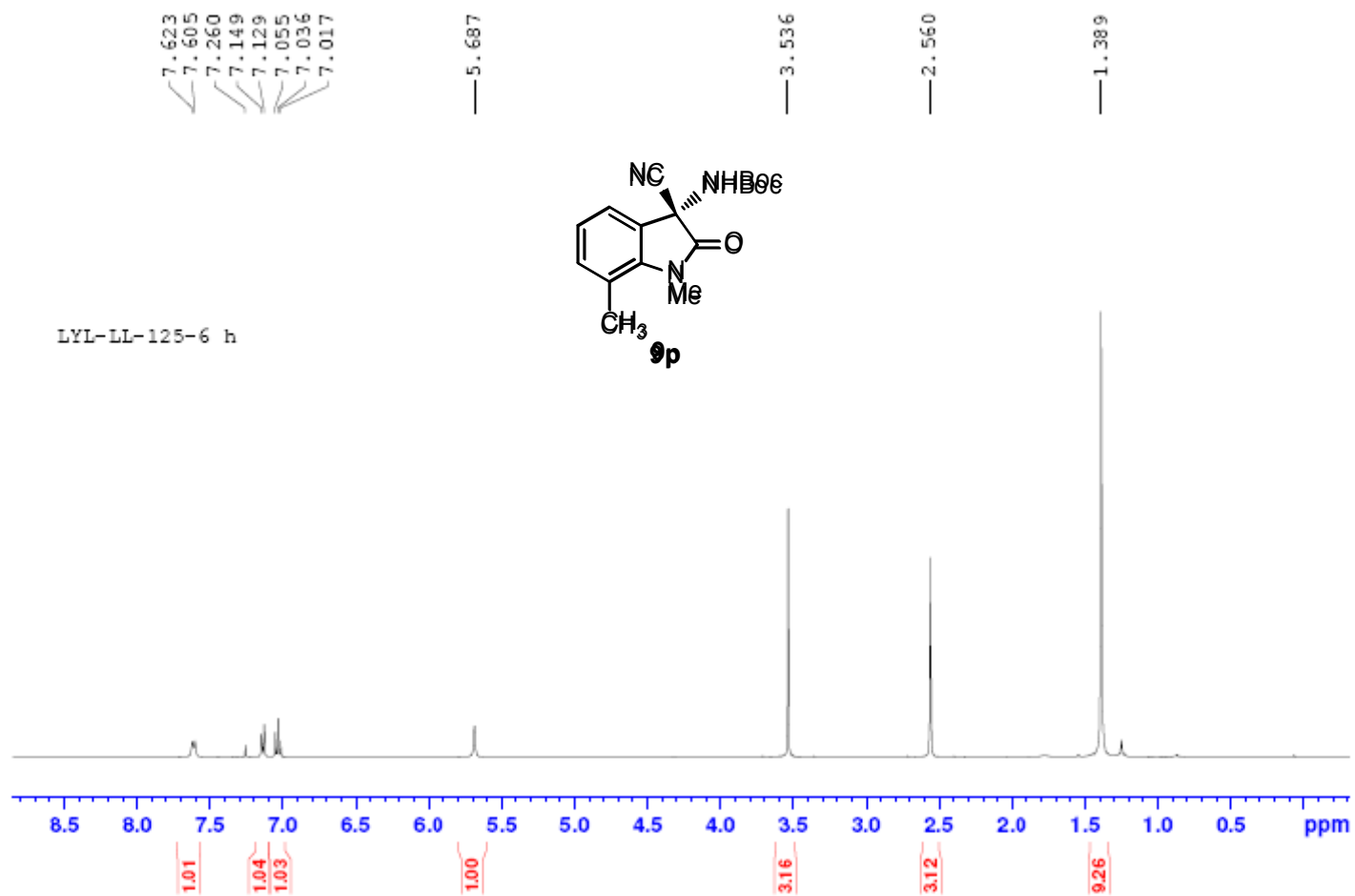


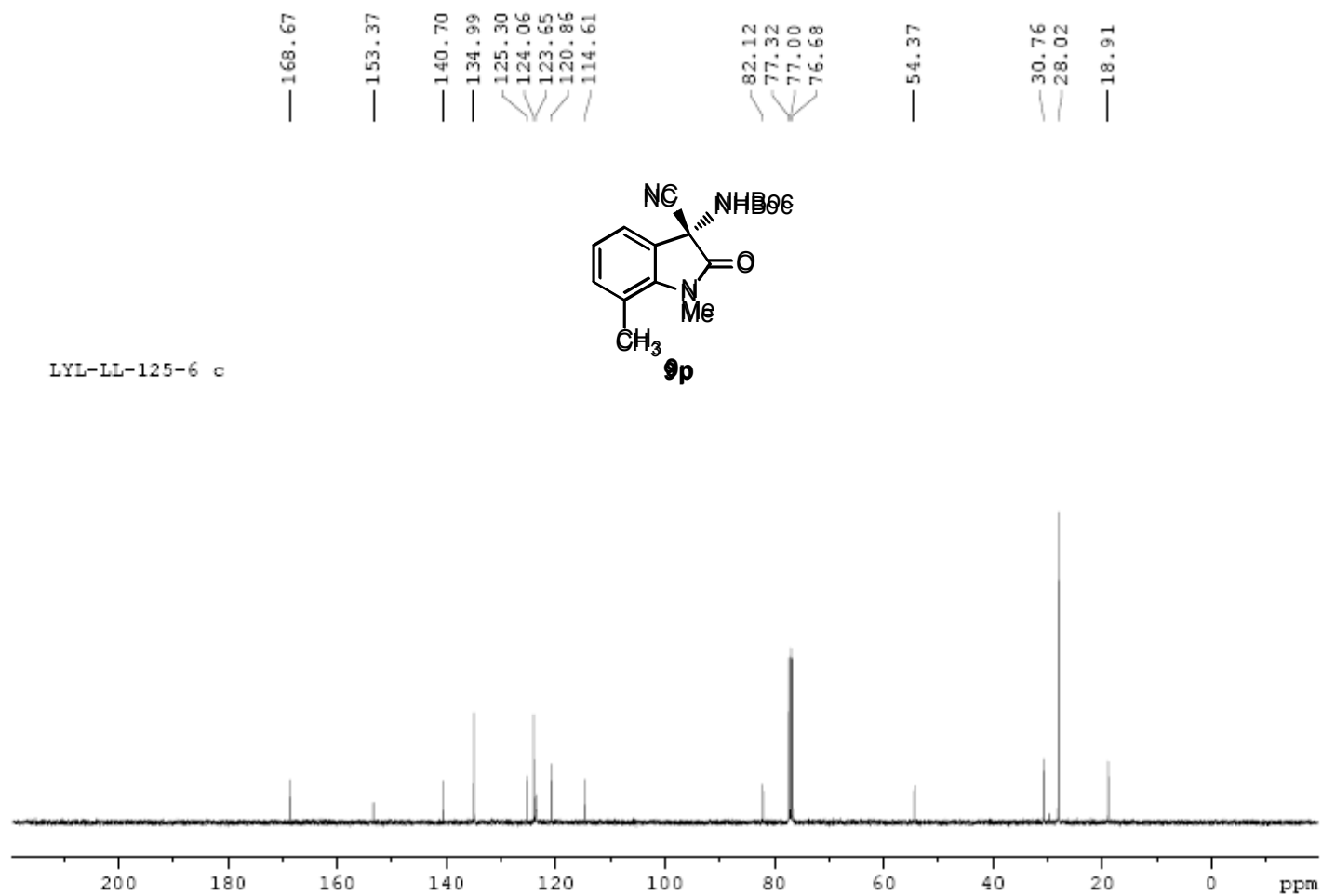
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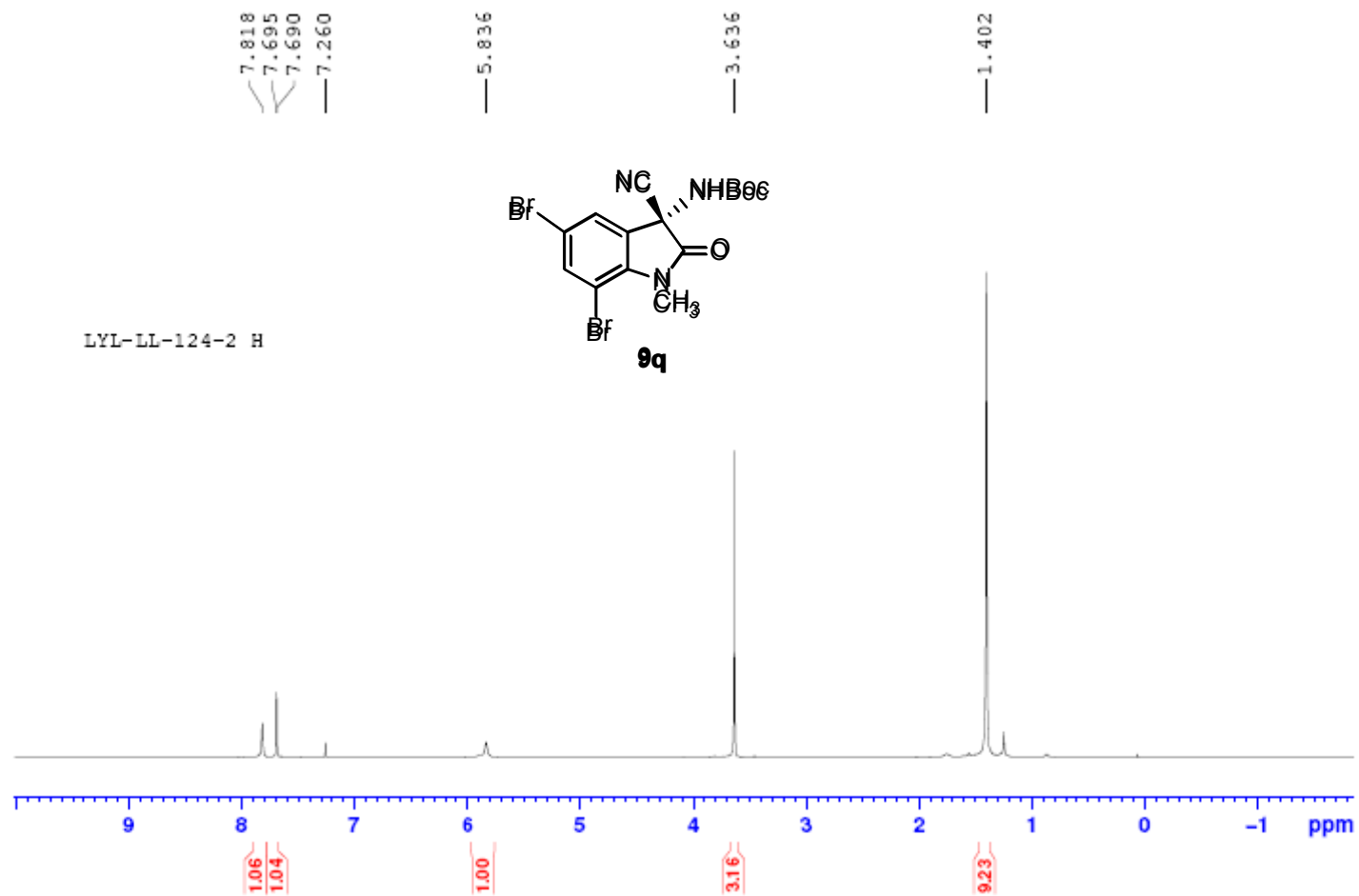


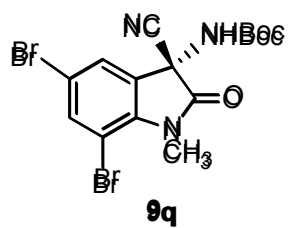
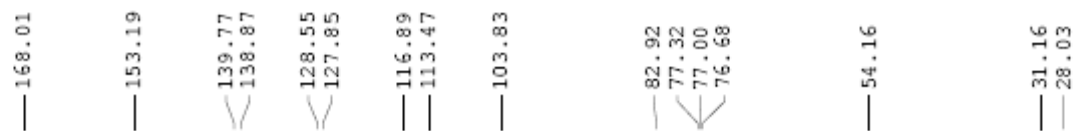




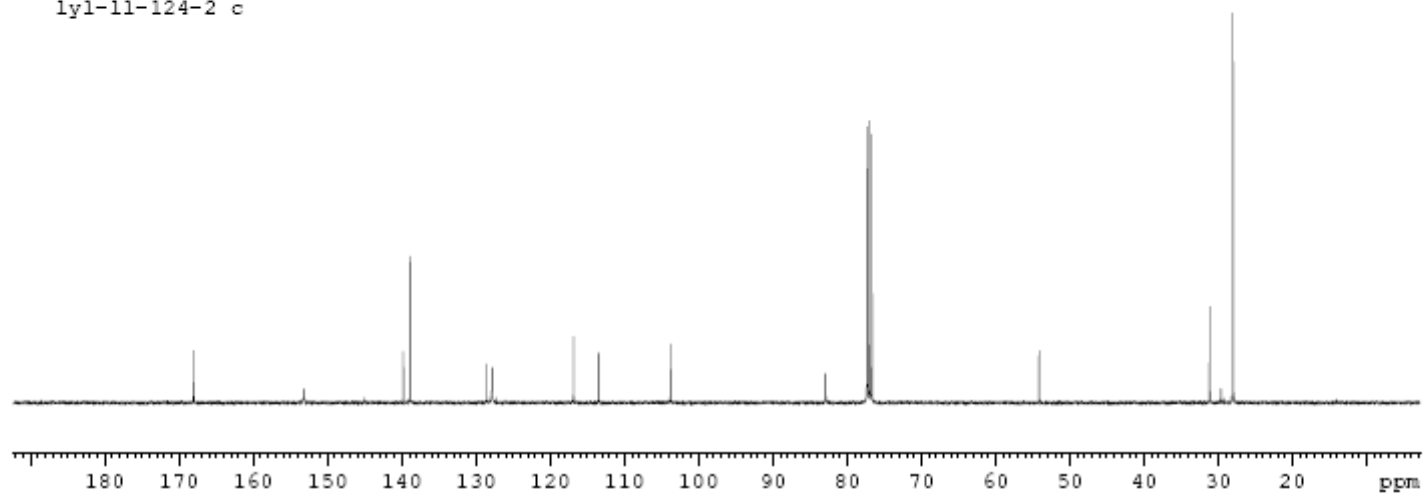


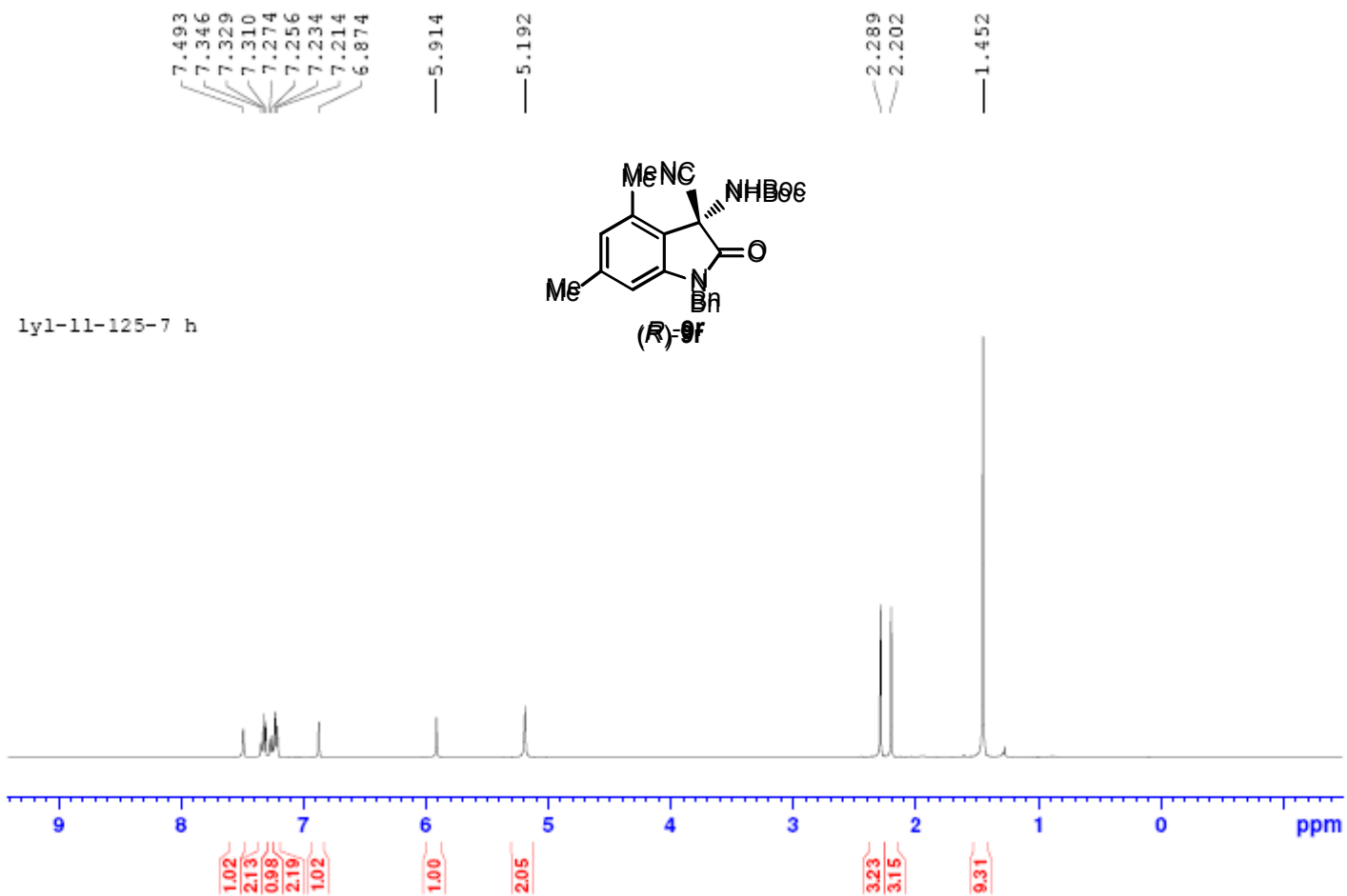


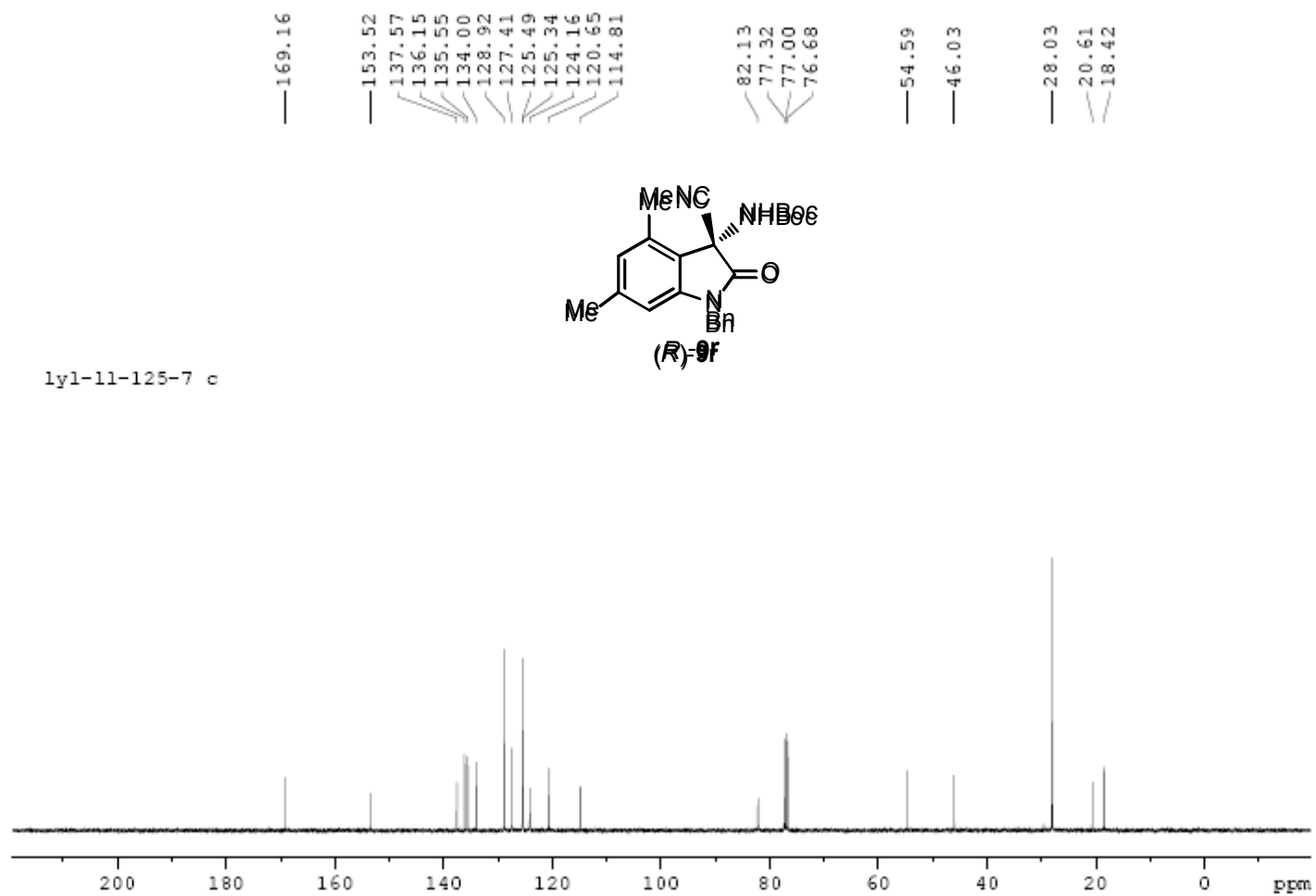


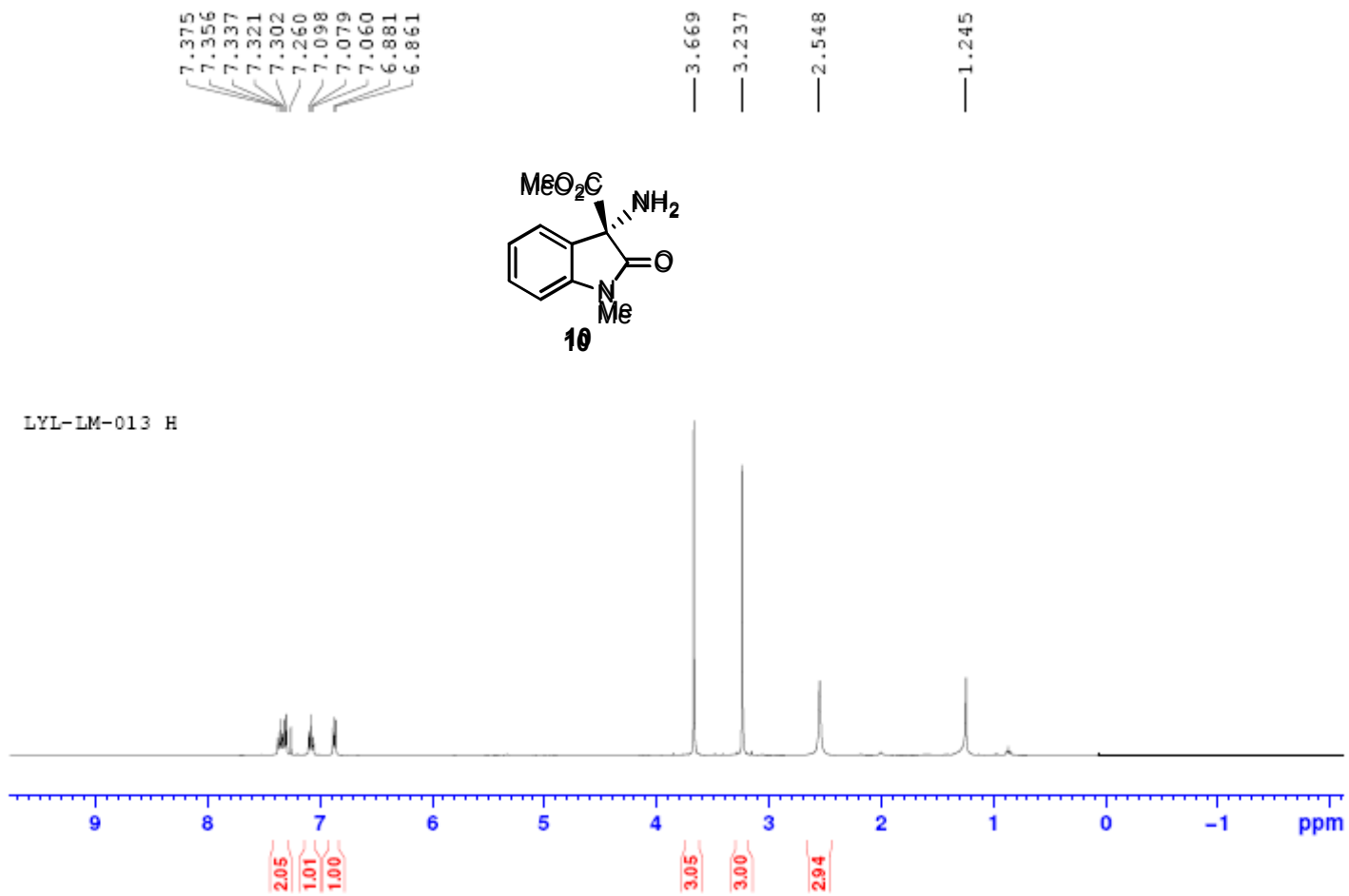


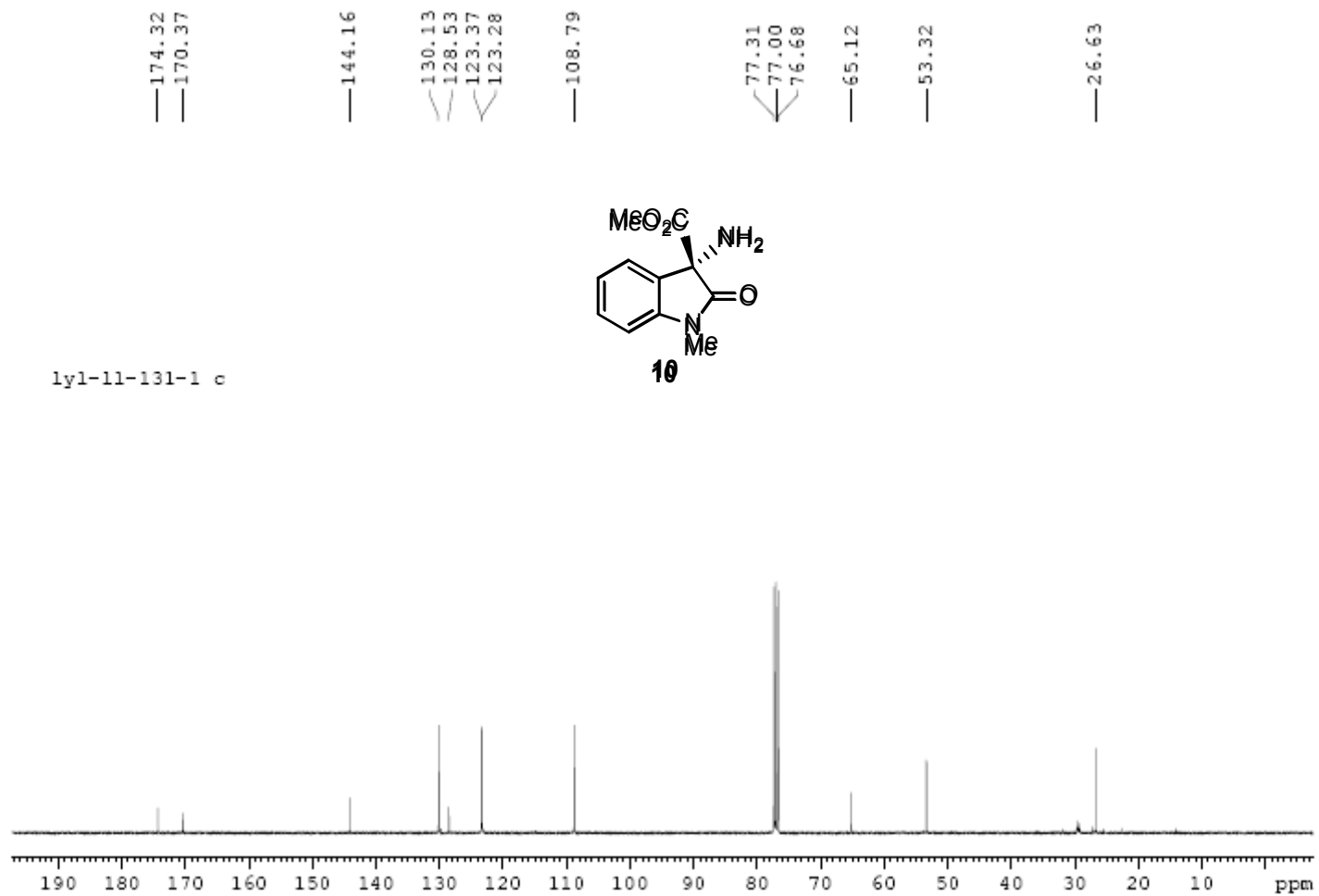
1y1-11-124-2 c











1y1-11-060-1 h

