

Synthesis of 2-alkyl substituted benzimidazoles under microwave irradiation: Anti-proliferative effect of some representative compounds on human histiocytic lymphoma cell U937

Chhanda Mukhopadhyay,^{*a} Sabari Ghosh,^a Sumita Sengupta (Bandyopadhyay)^b and Soumasree De^b

^aDepartment of Chemistry, University of Calcutta, 92 APC Road, Kolkata-700009, India; Tel: +91 9433019610; E-mail: cmukhop@yahoo.co.in

^b Department of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta, 92 APC Road, Kolkata-700009, India

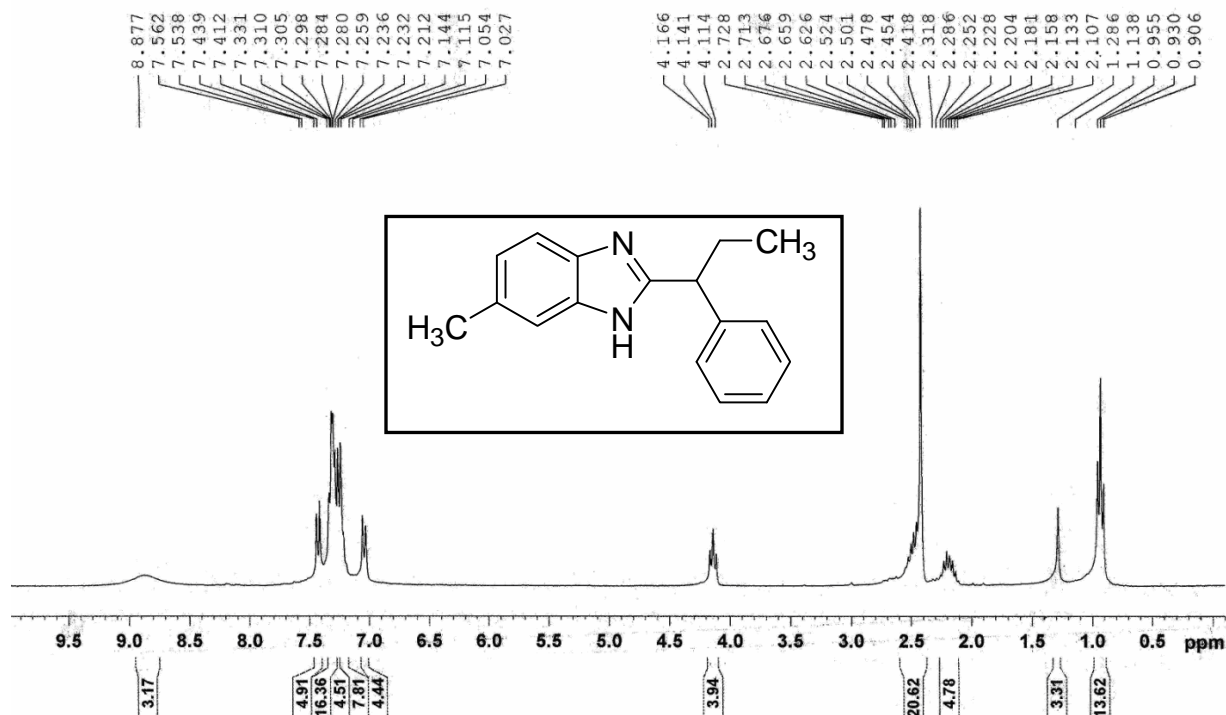
Supplementary Information

Part 5

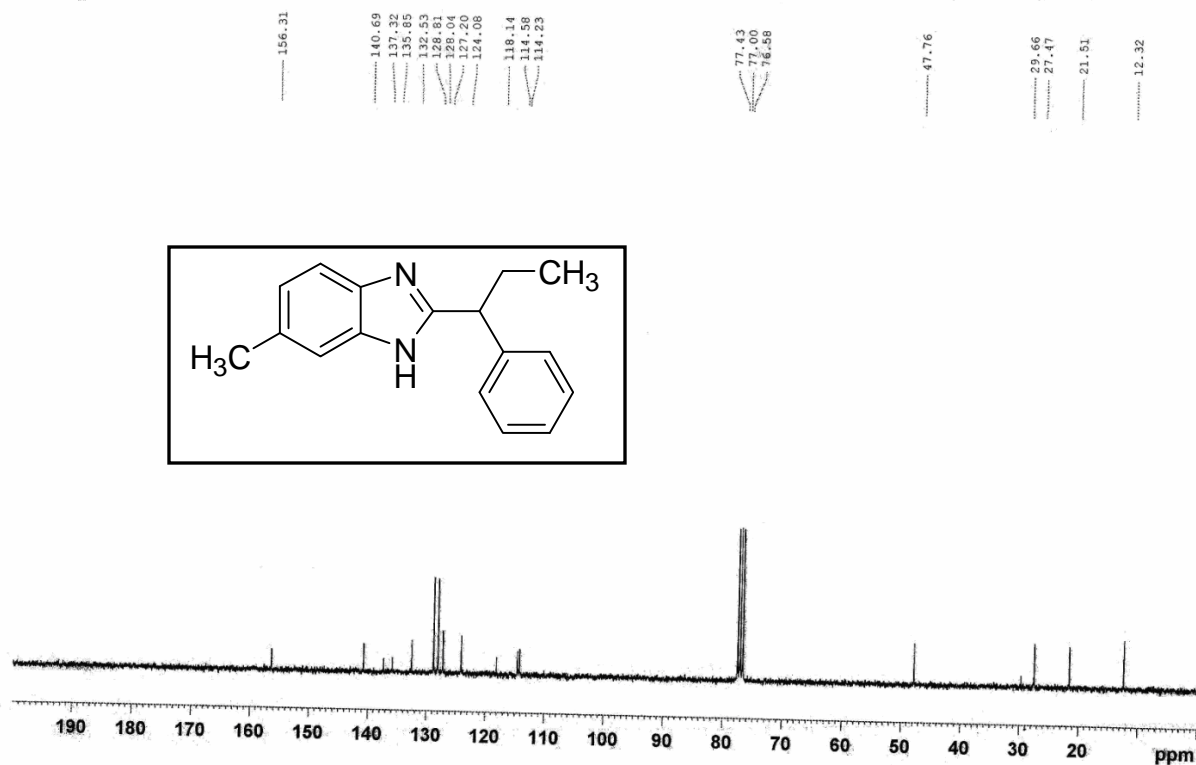
Copy of NMR spectra for compounds 3j – 3r.

Compound 3j

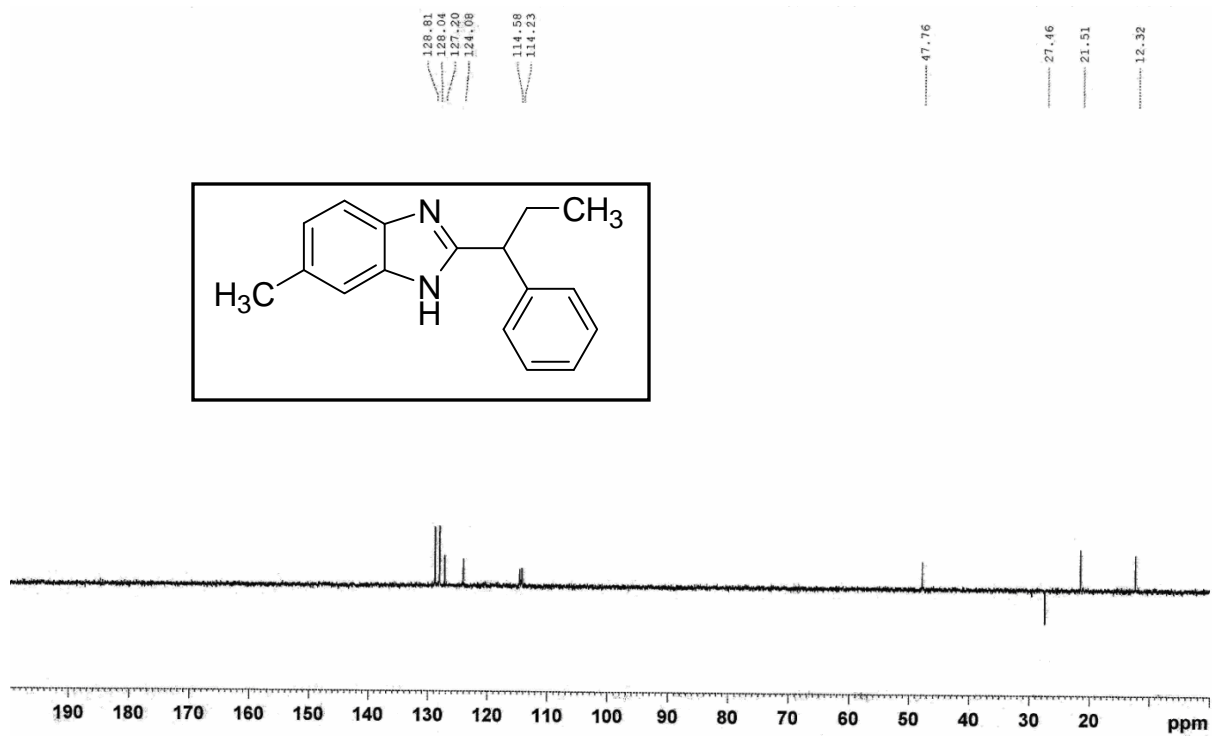
¹H-NMR



¹³C-NMR (Compound **3j**)

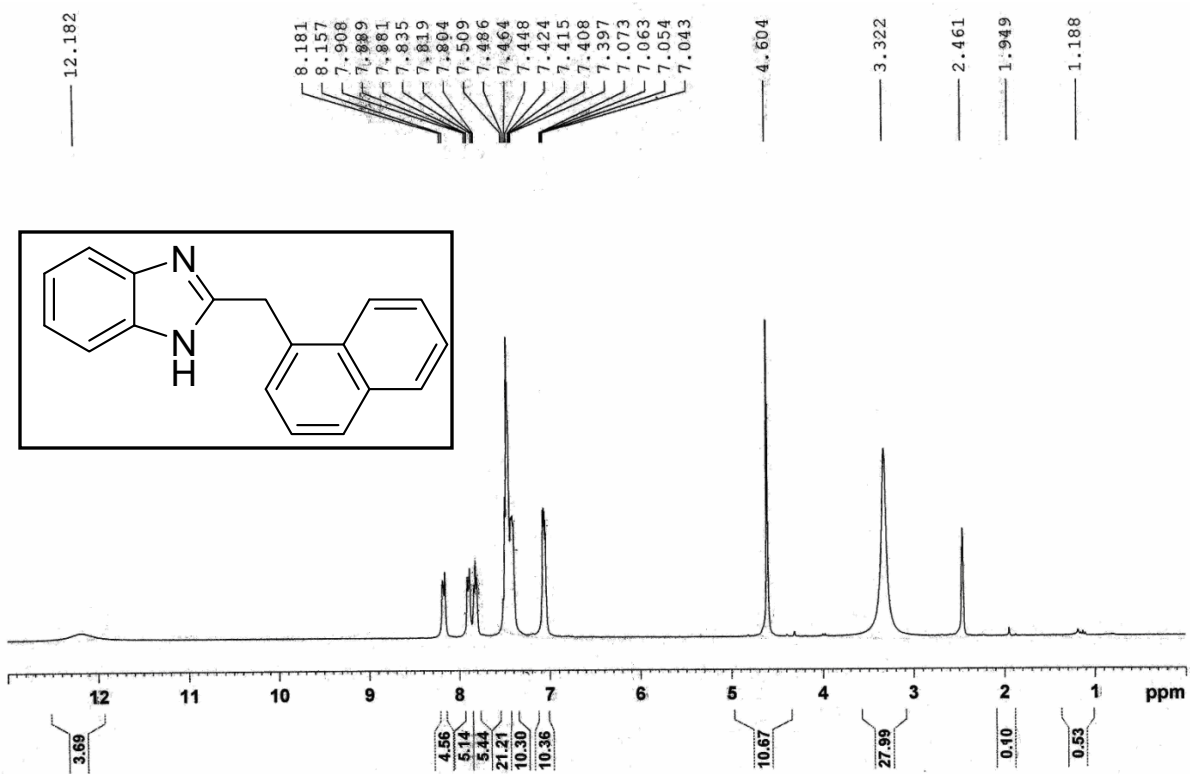


DEPT-135 (Compound **3j**)

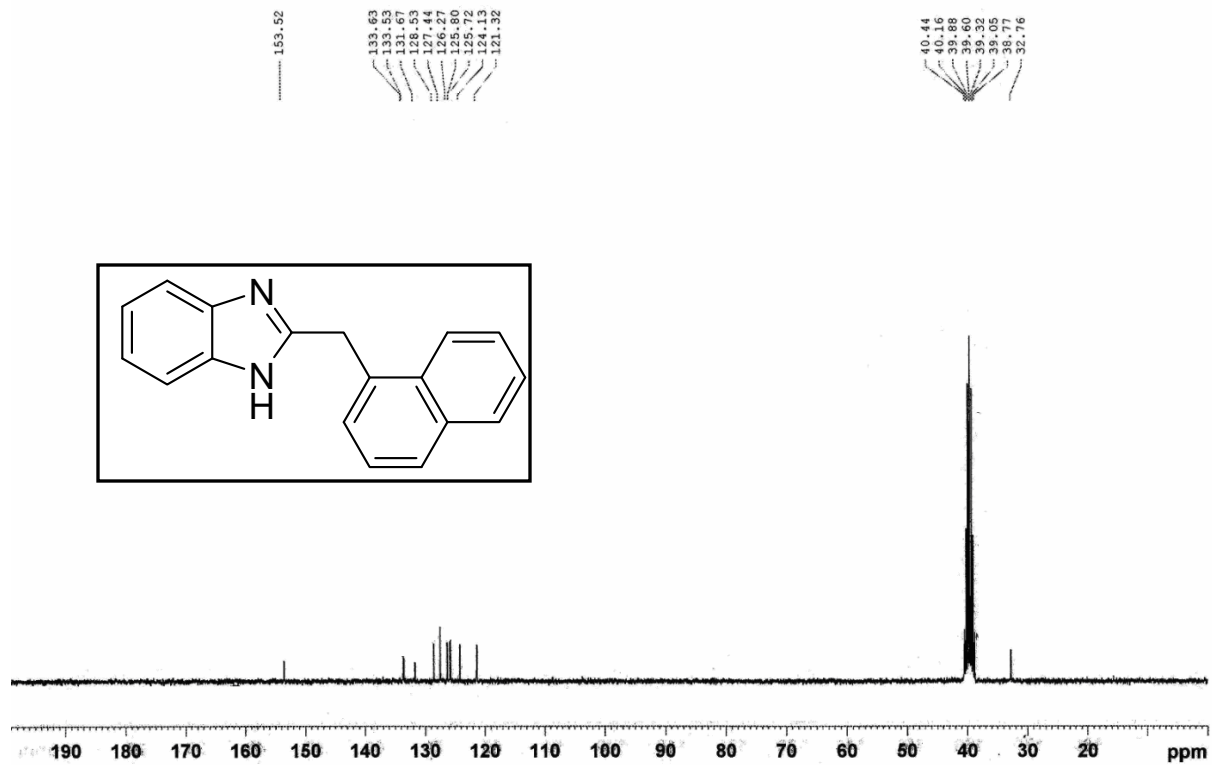


Compound 3k

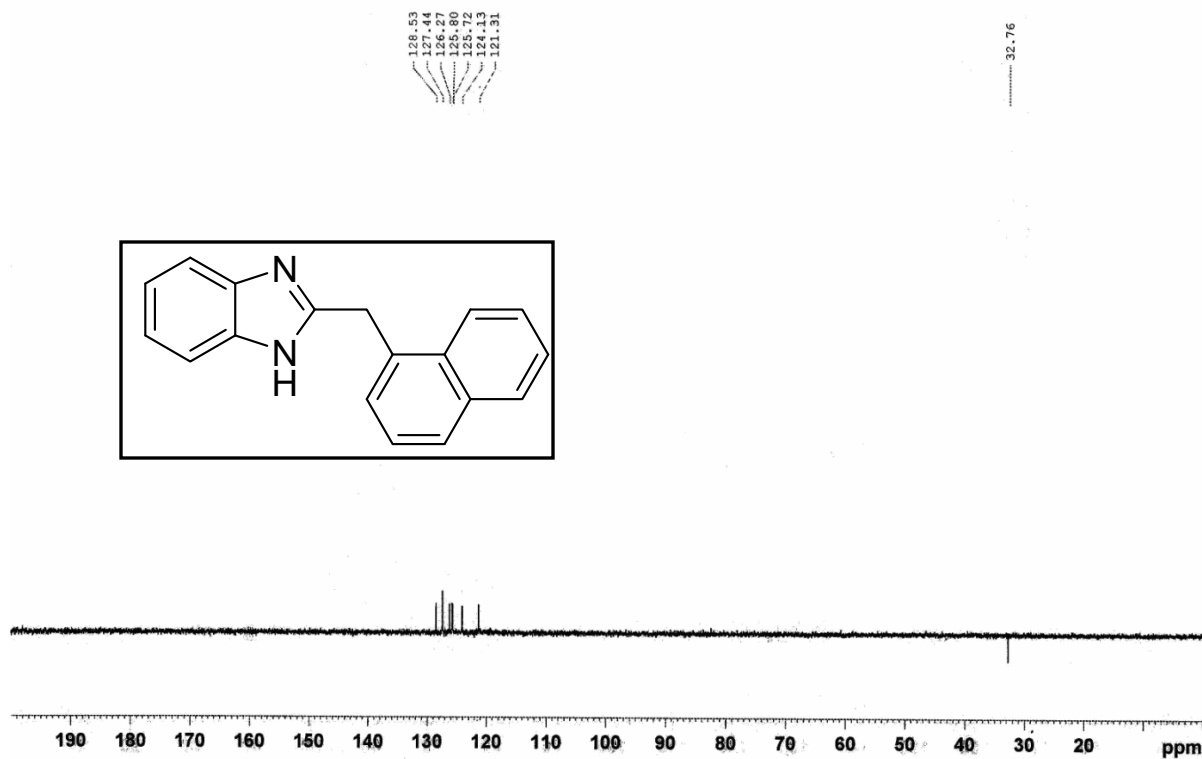
¹H-NMR



^{13}C -NMR (Compound **3k**)

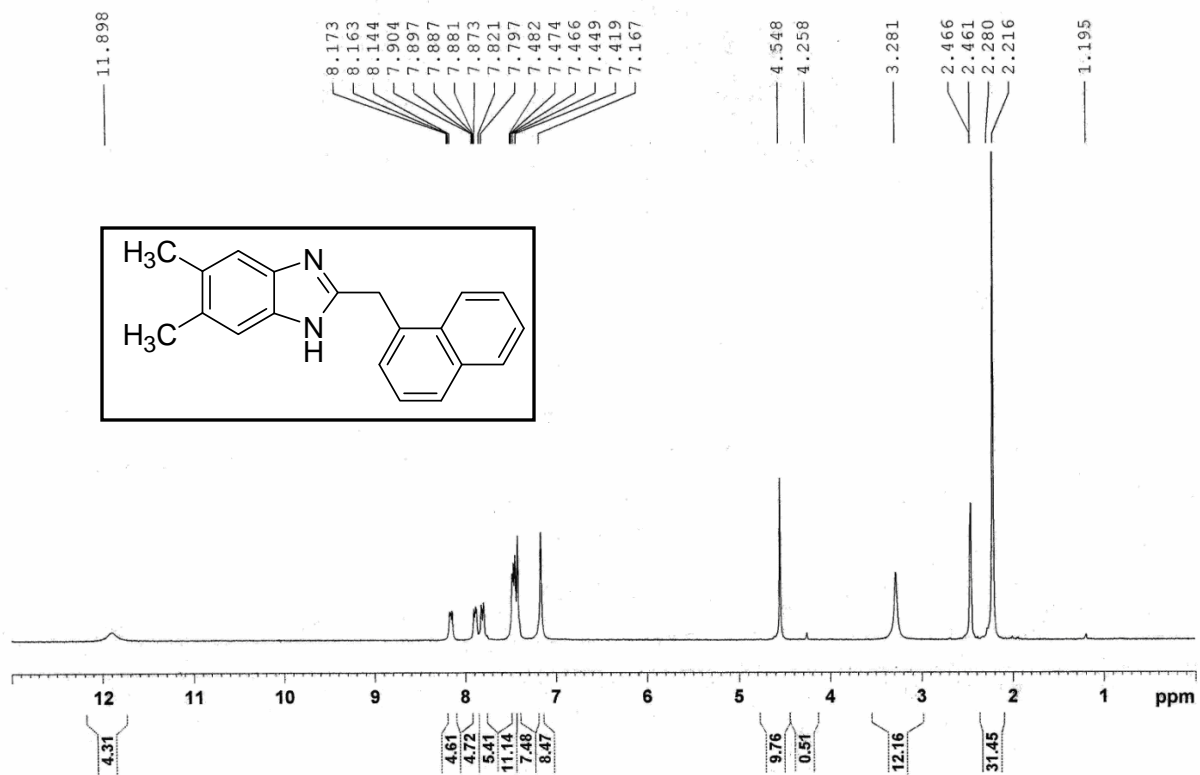


DEPT-135 (Compound **3k**)

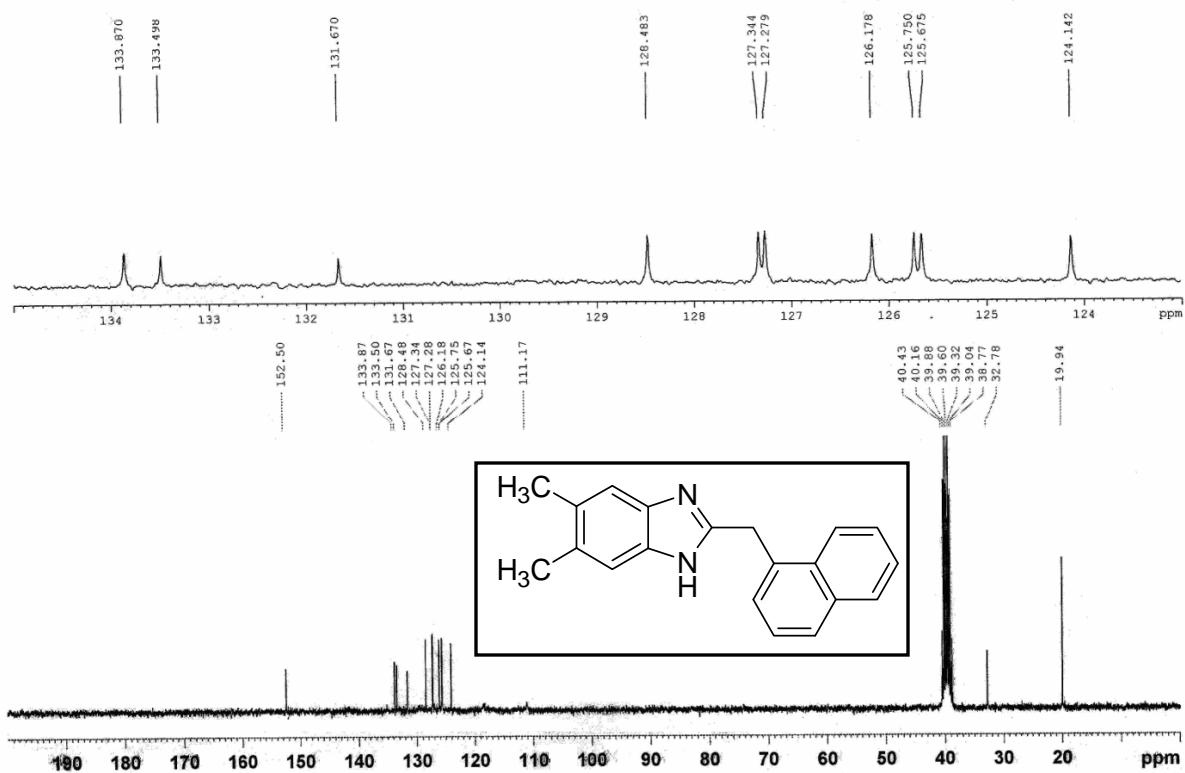


Compound 31

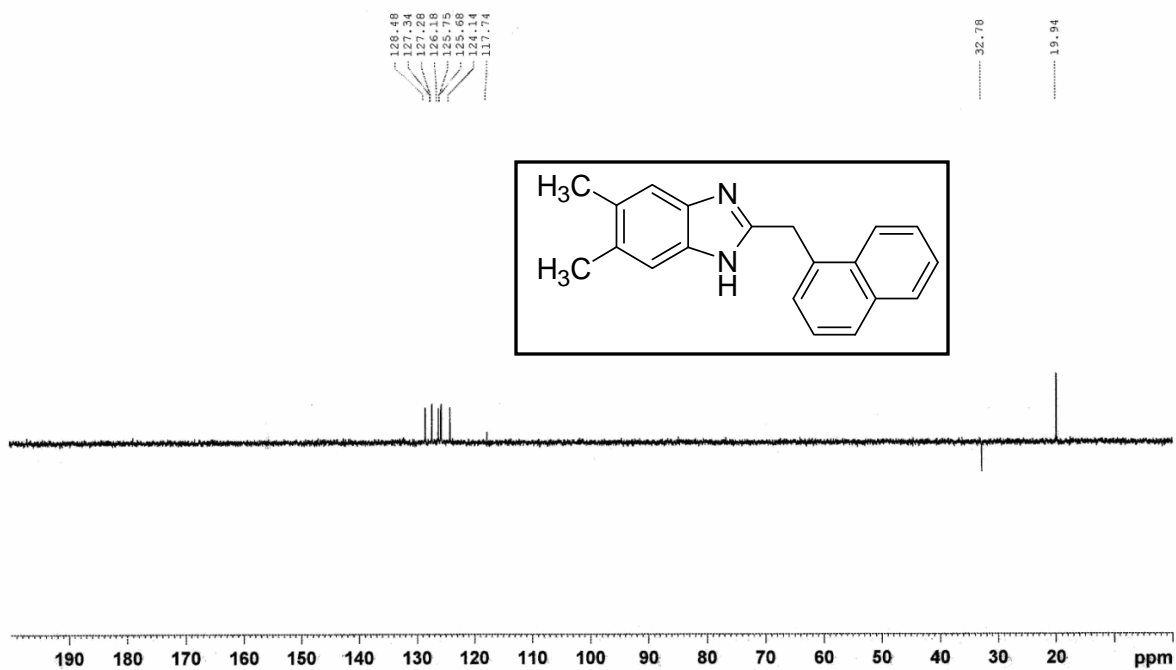
¹H-NMR



^{13}C -NMR (Compound **31**)

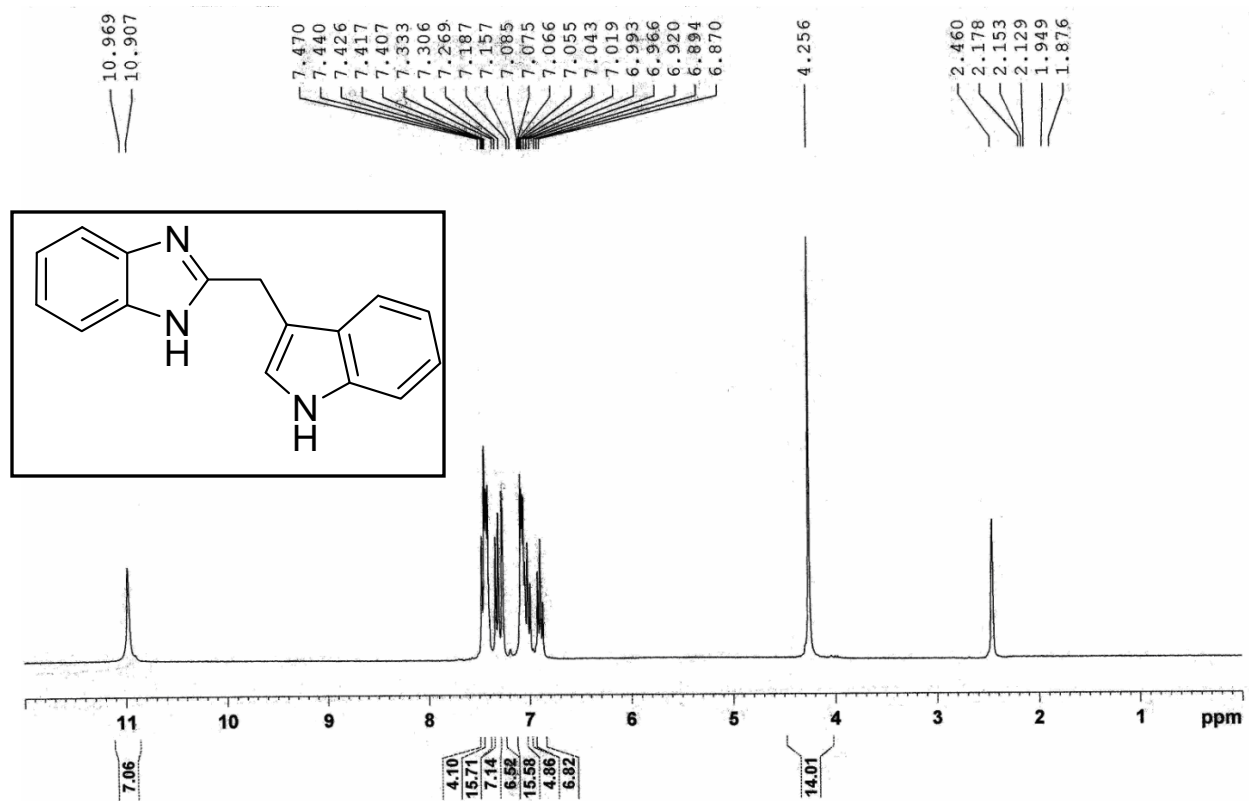


DEPT-135 (Compound **3I**)

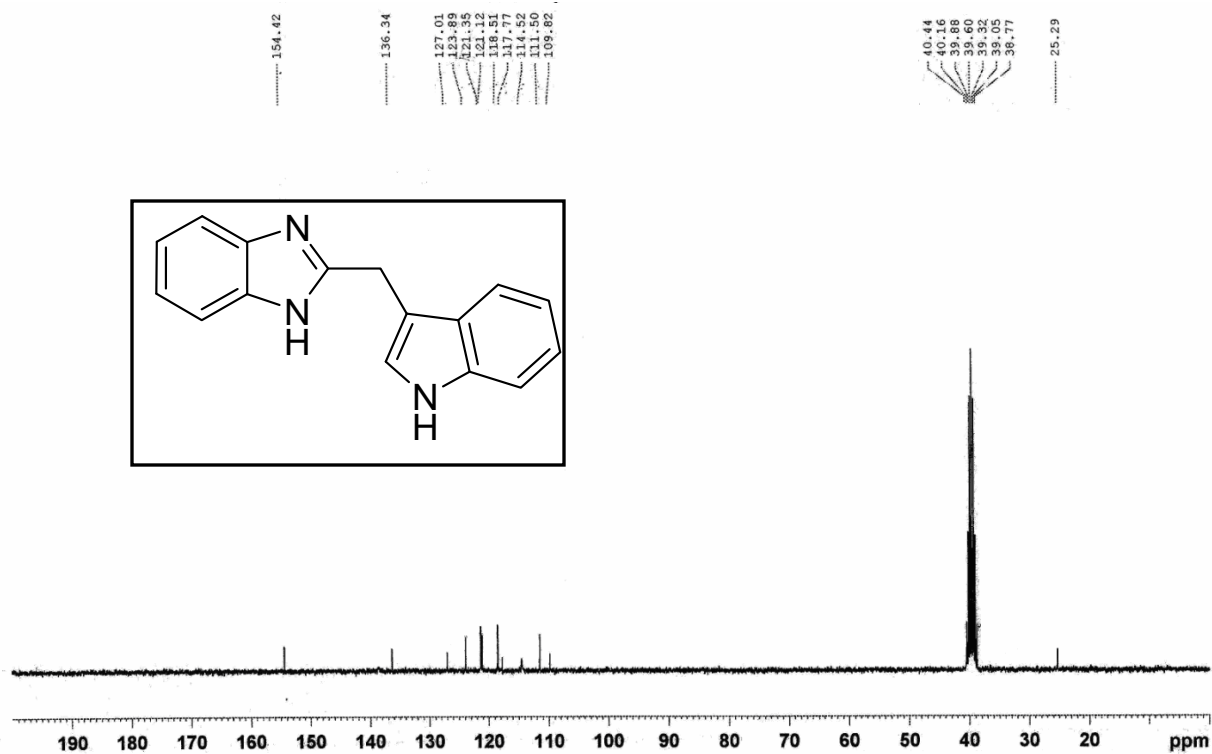


Compound **3m**

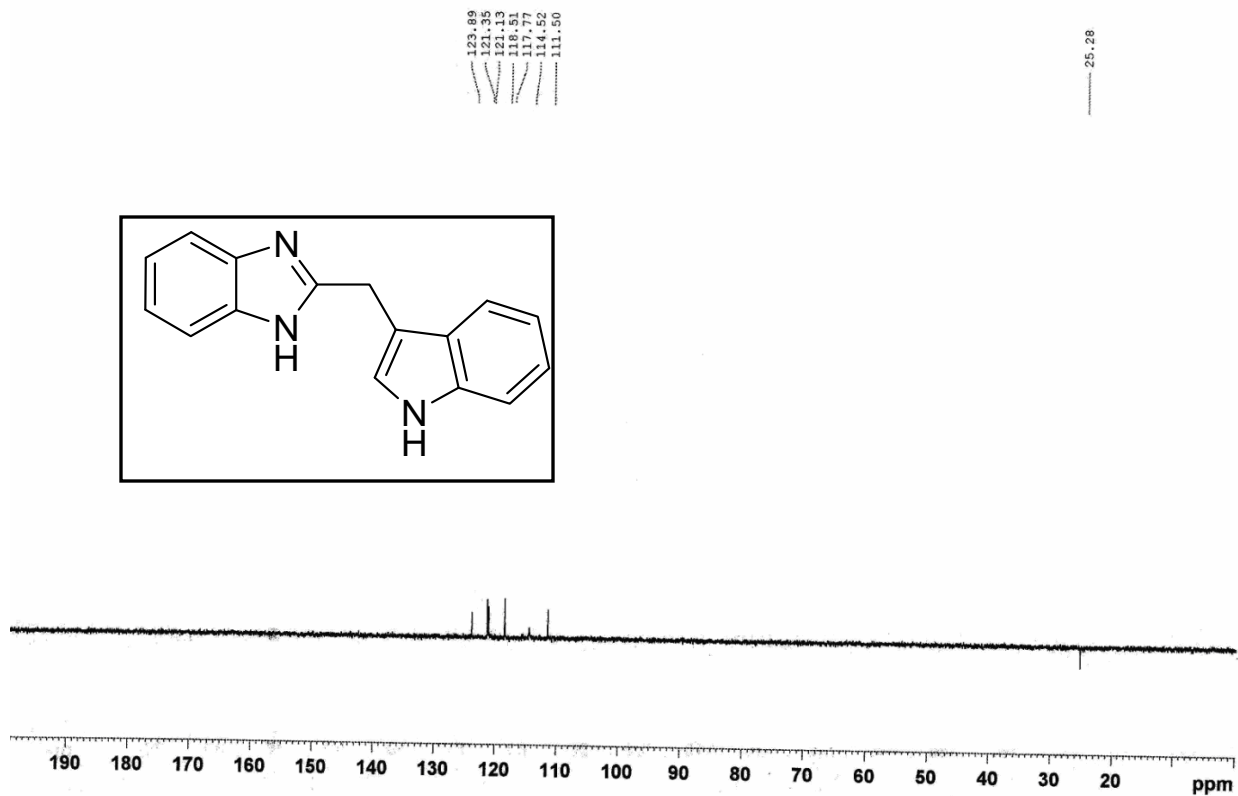
¹H-NMR



^{13}C -NMR (Compound **3m**)

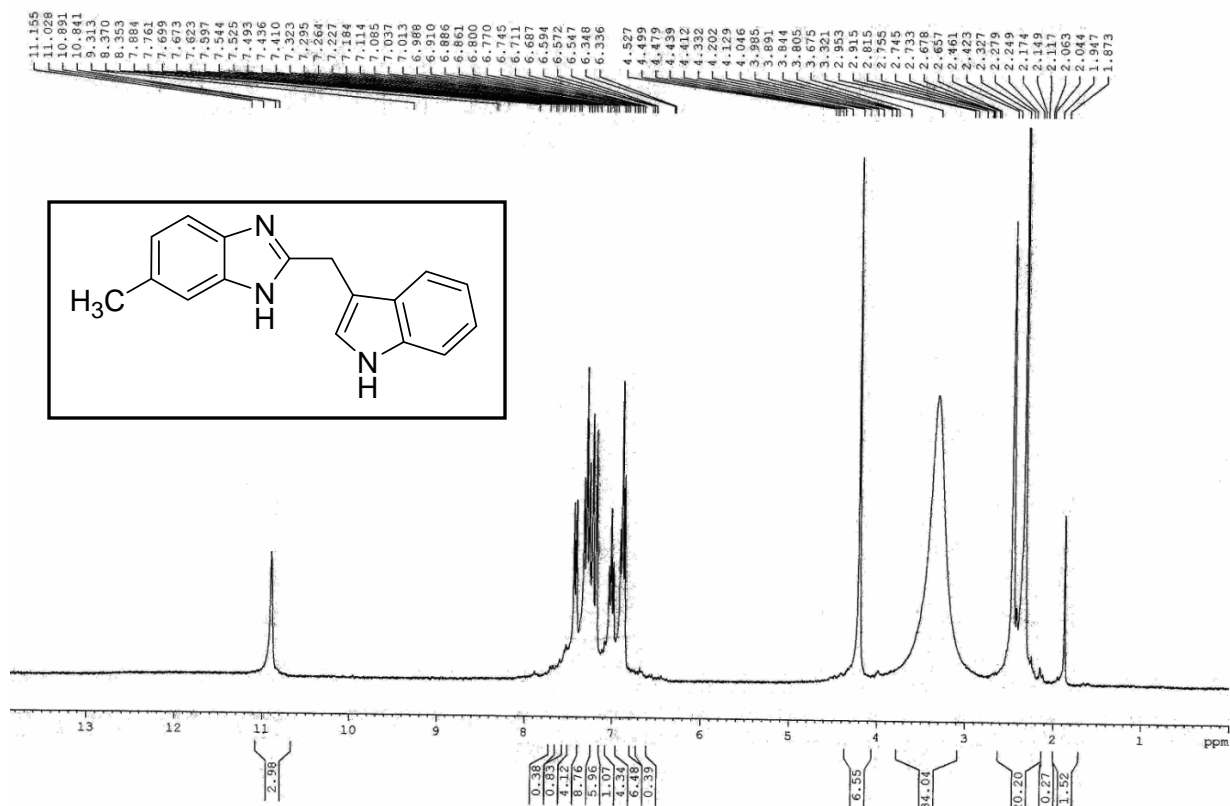


DEPT-135 (Compound **3m**)

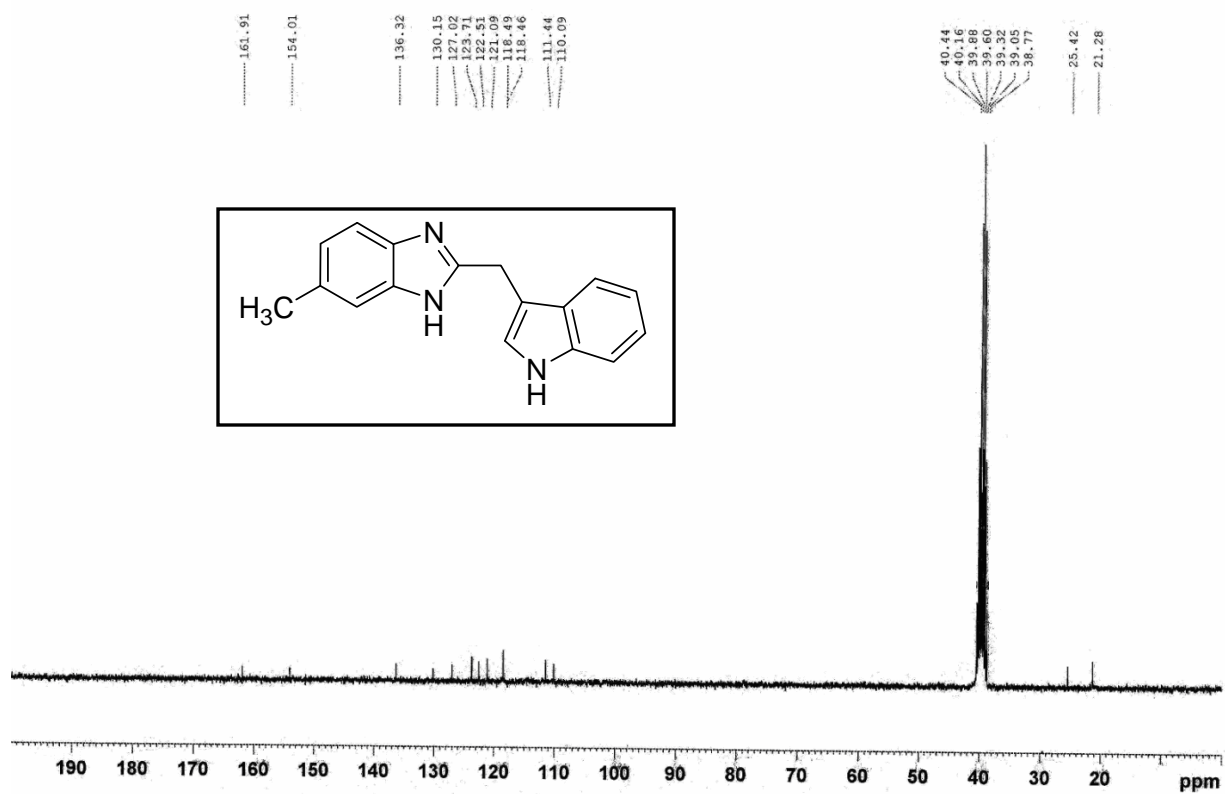


Compound 3n

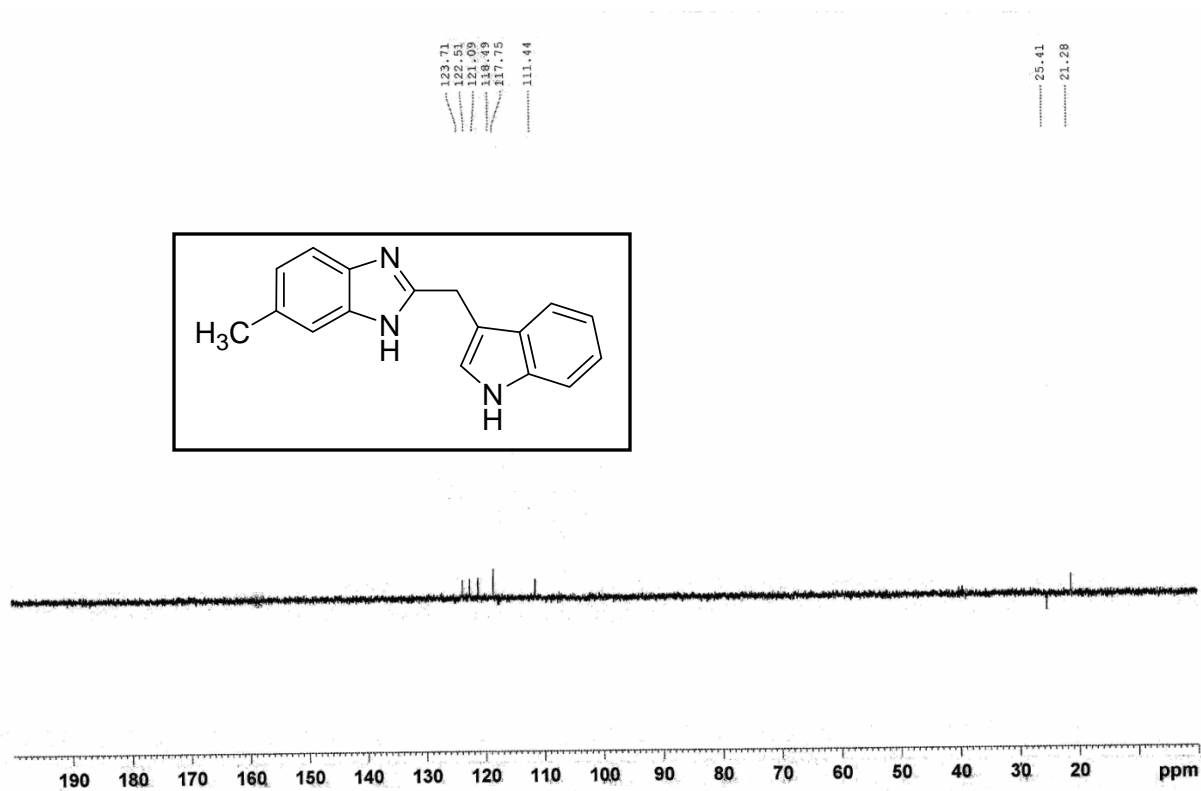
¹H-NMR



^{13}C -NMR (Compound **3n**)

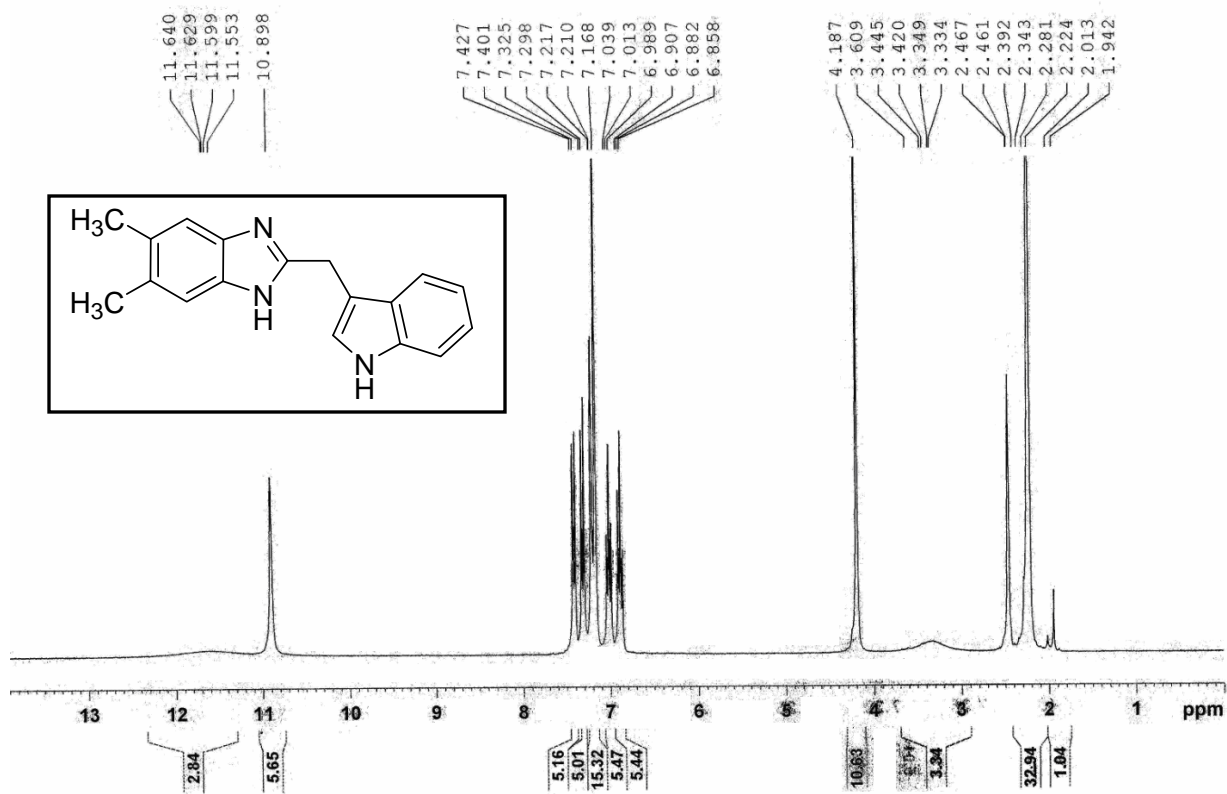


DEPT-135 (Compound **3n**)

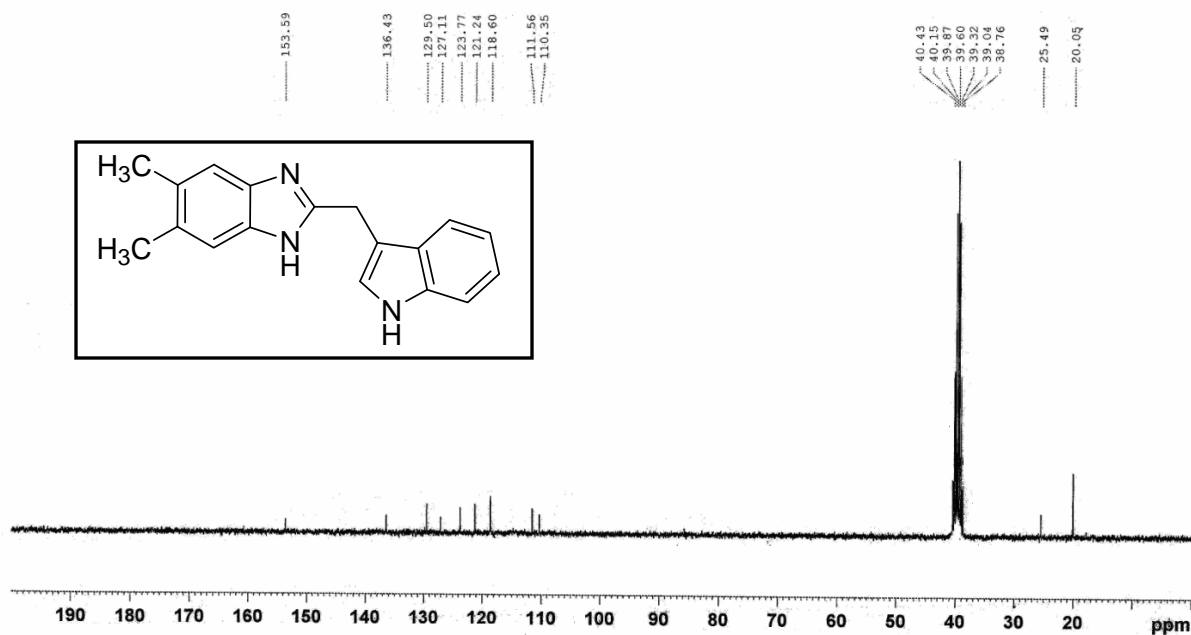


Compound 30

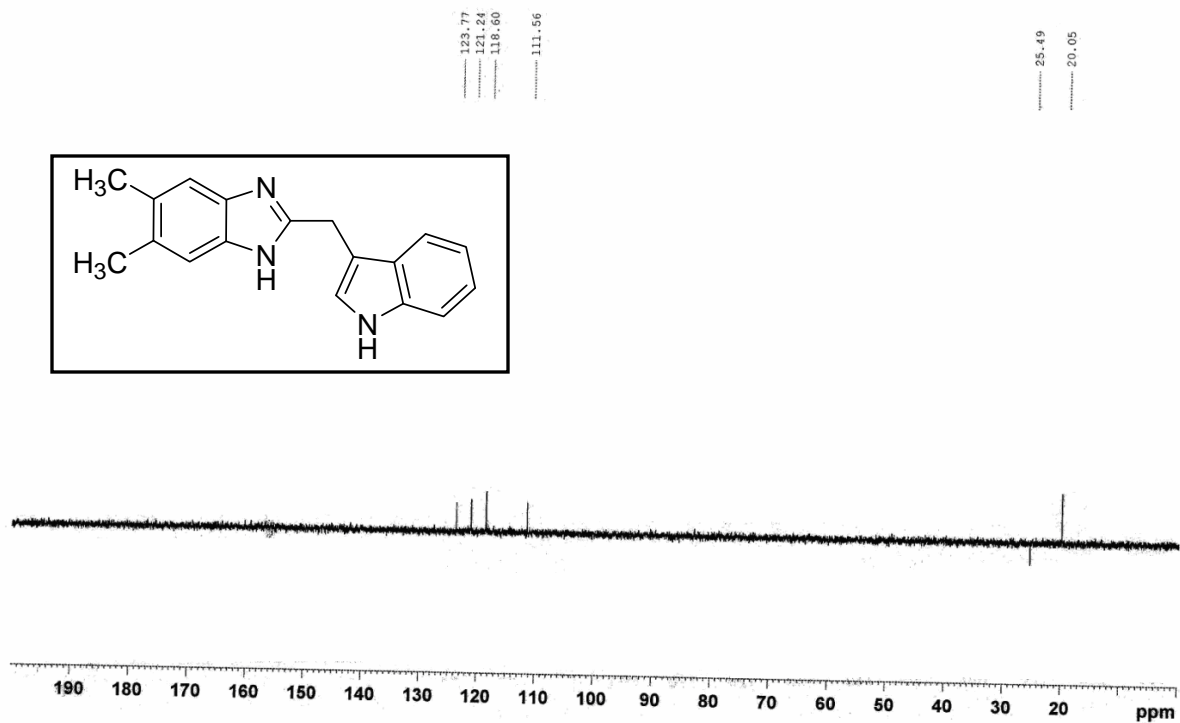
¹H-NMR



¹³C-NMR (Compound **30**)

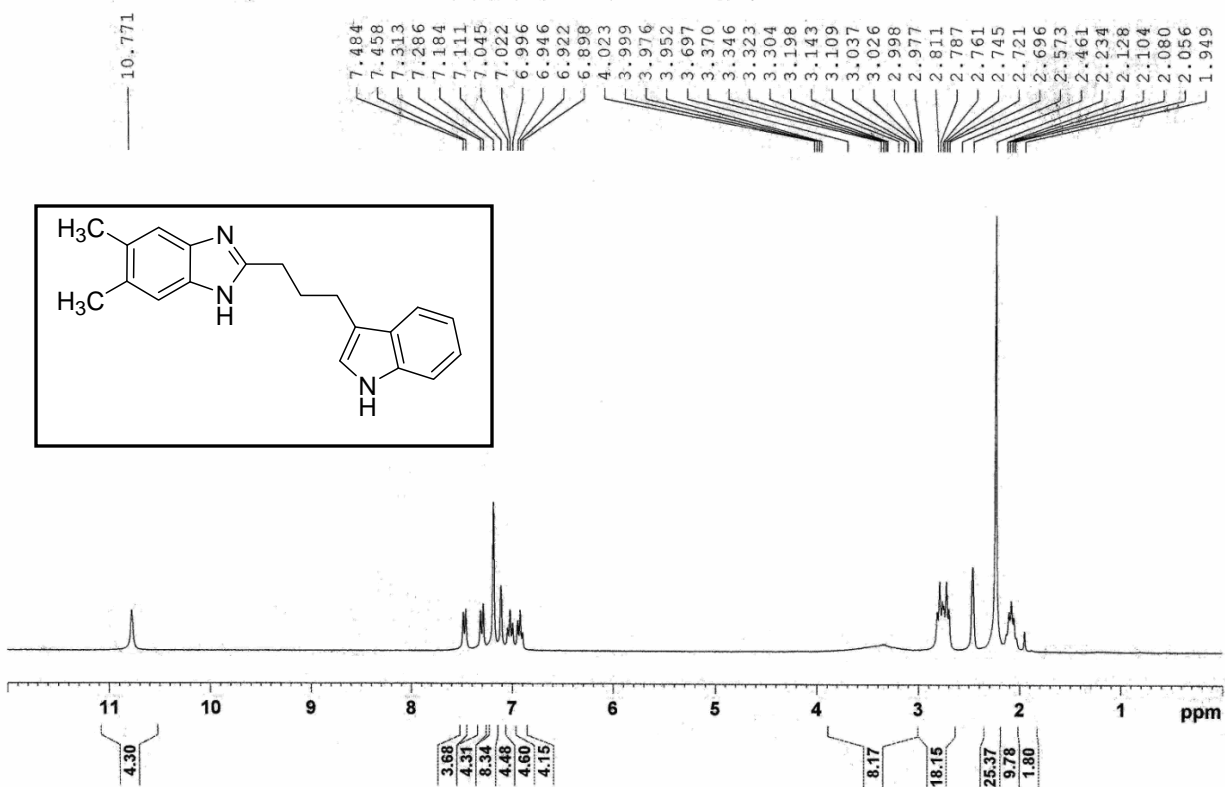


DEPT-135 (Compound **30**)

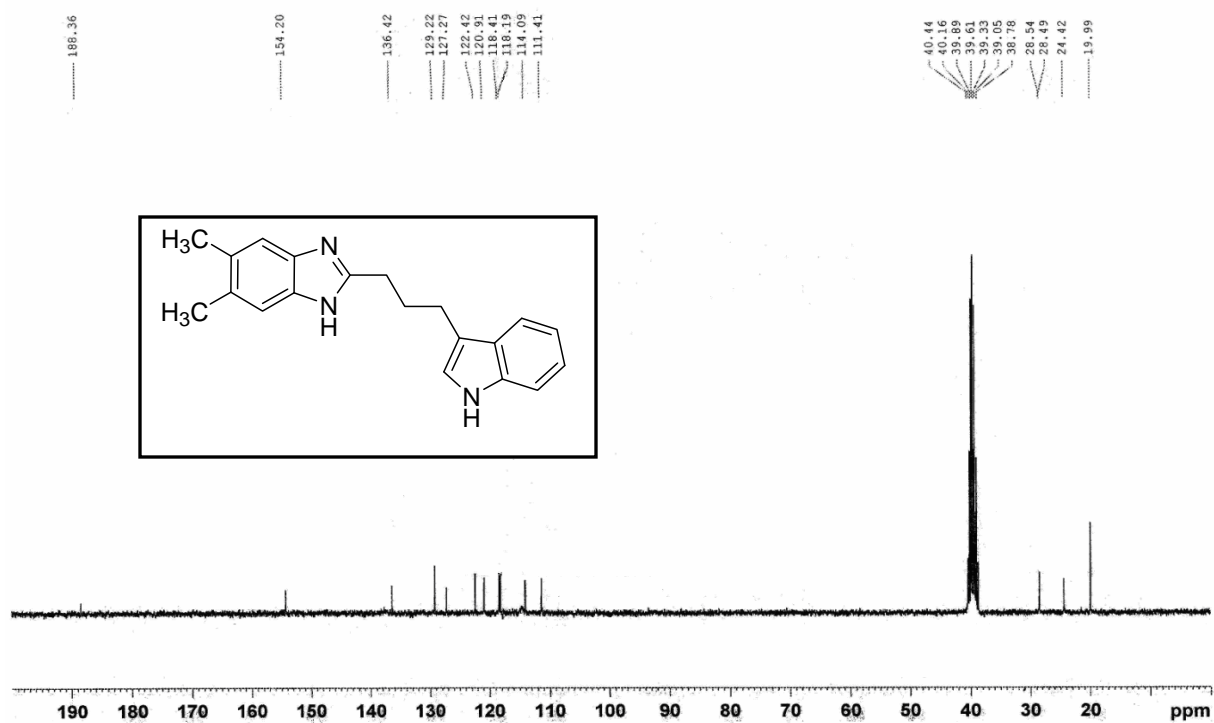


Compound 3p

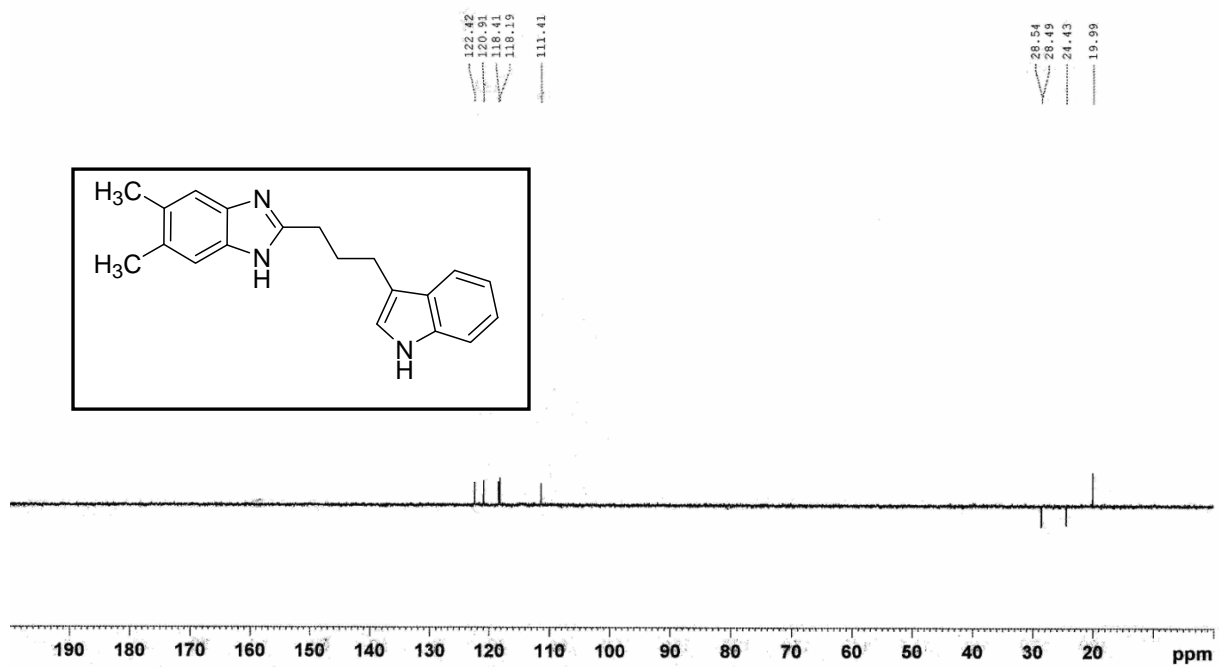
¹H-NMR



^{13}C -NMR (Compound **3p**)

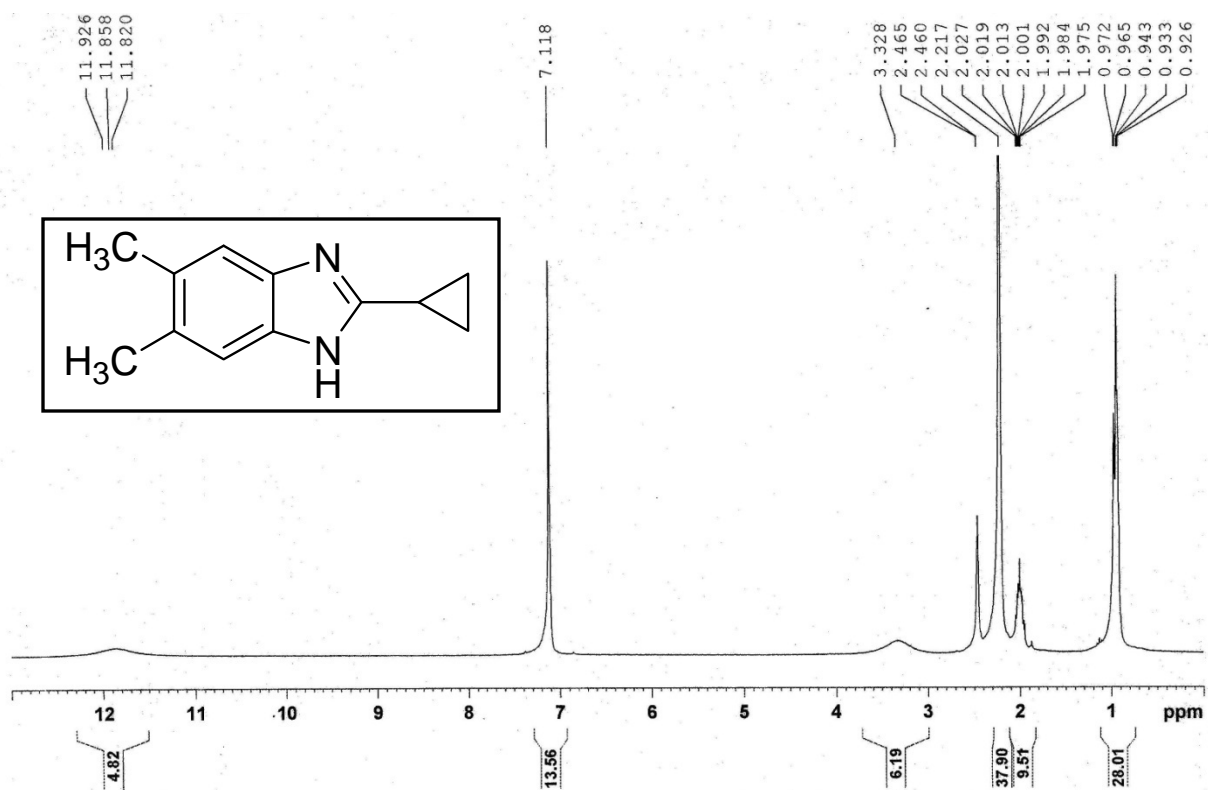


DEPT-135 (Compound **3p**)

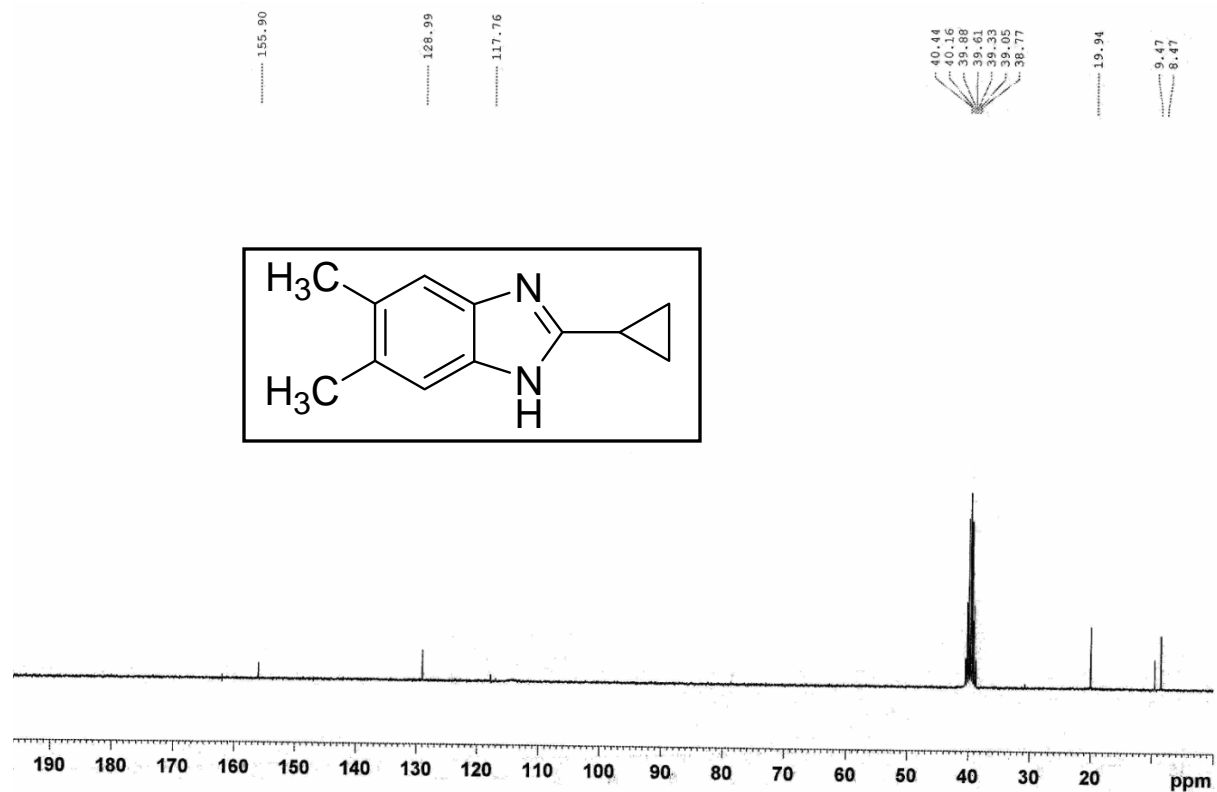


Compound 3q

¹H-NMR

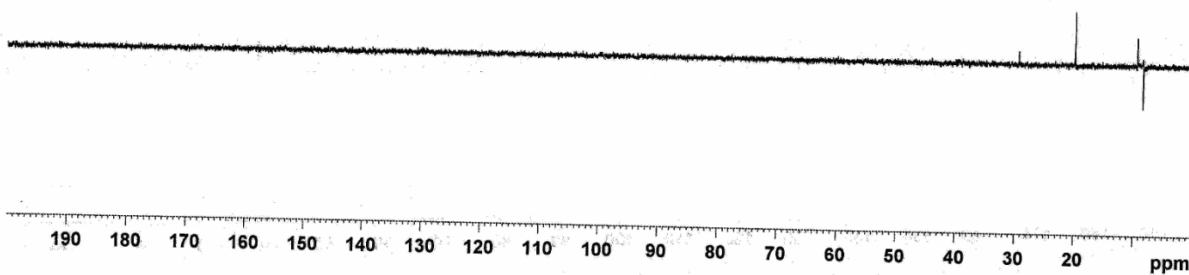
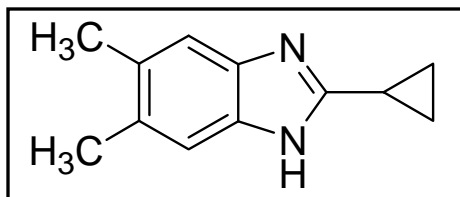


^{13}C -NMR (Compound **3q**)



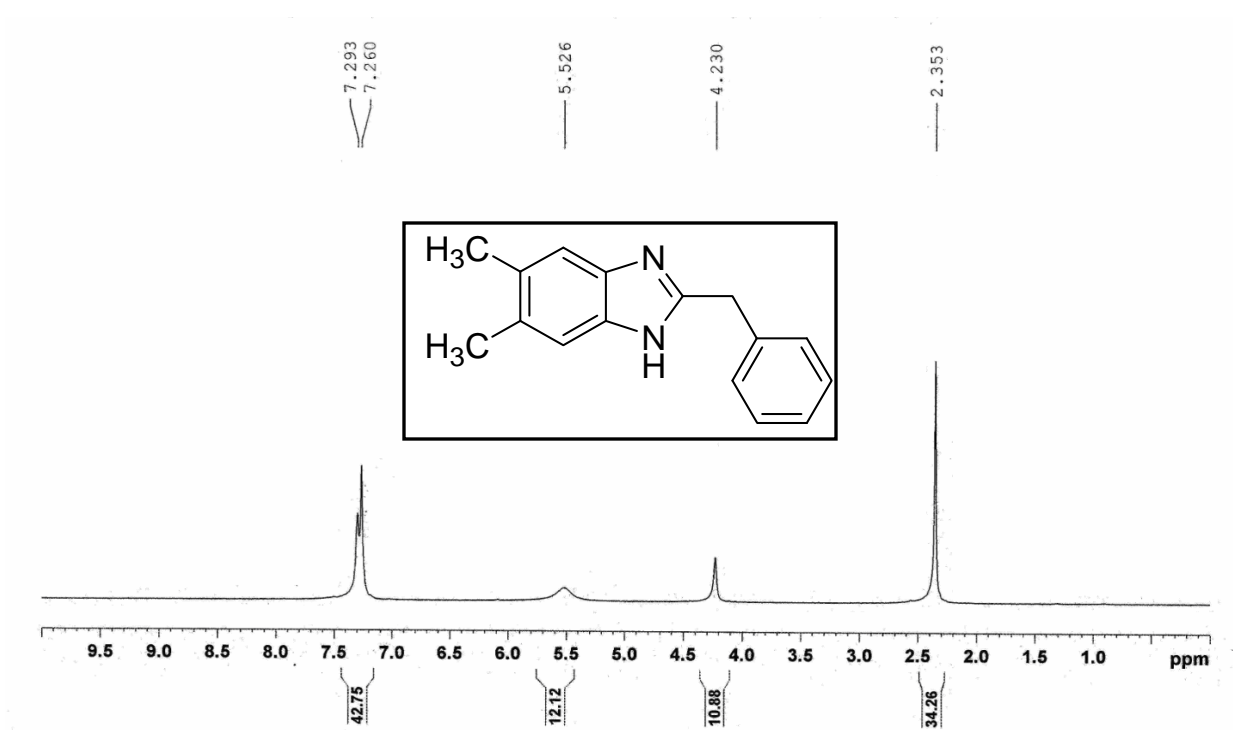
DEPT-135 (Compound **3q**)

29.42
19.95
9.47
8.46

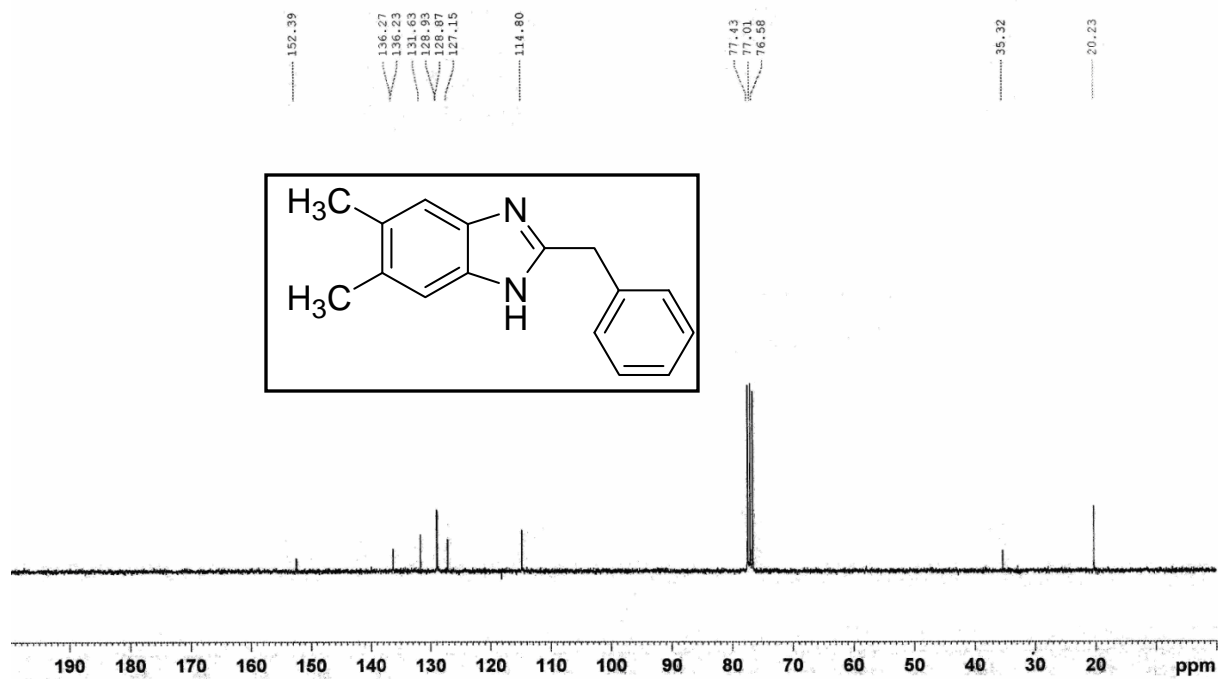


Compound 3r

¹H-NMR



^{13}C -NMR (Compound **3r**)



DEPT-135 (Compound **3r**)

