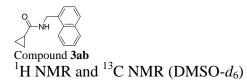
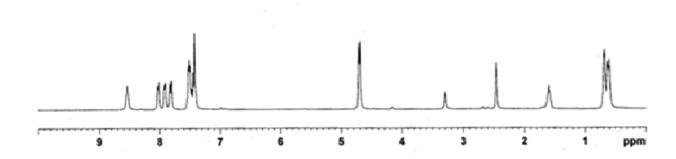
Direct amide bond formation from carboxylic acids and amines using activated alumina balls as a new, convenient, clean, reusable and low cost heterogeneous catalyst

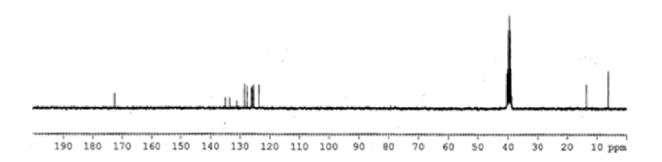
Sabari Ghosh, Asim Bhaumik, John Mondal, Amit Mallik, Sumita Sengupta (Bandyopadhyay) and Chhanda Mukhopadhyay*

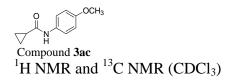
Supplementary Information Part 2

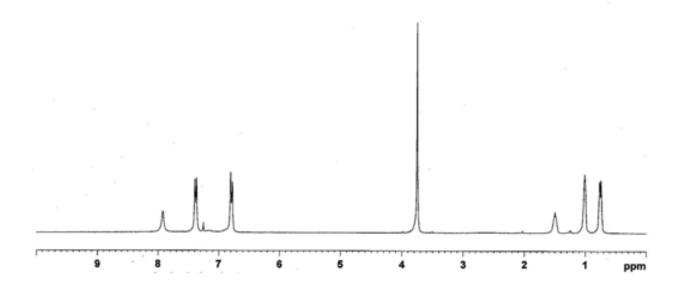
Copy of all NMR spectra

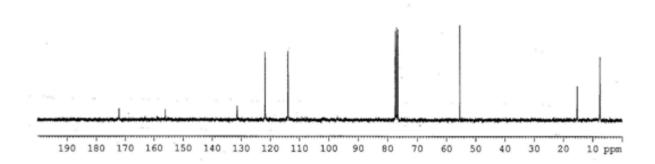


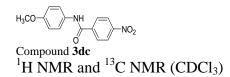


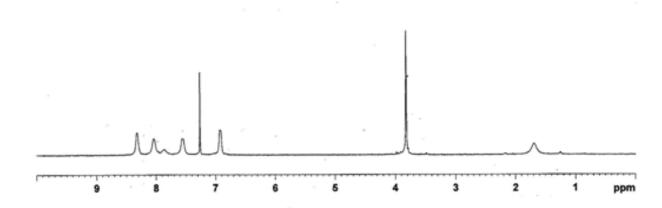


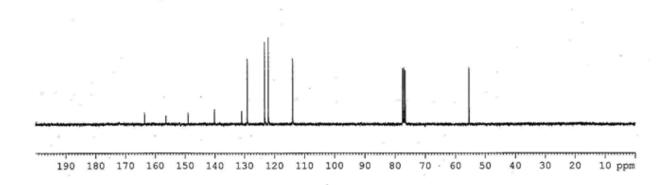


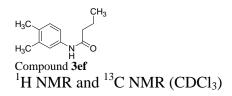


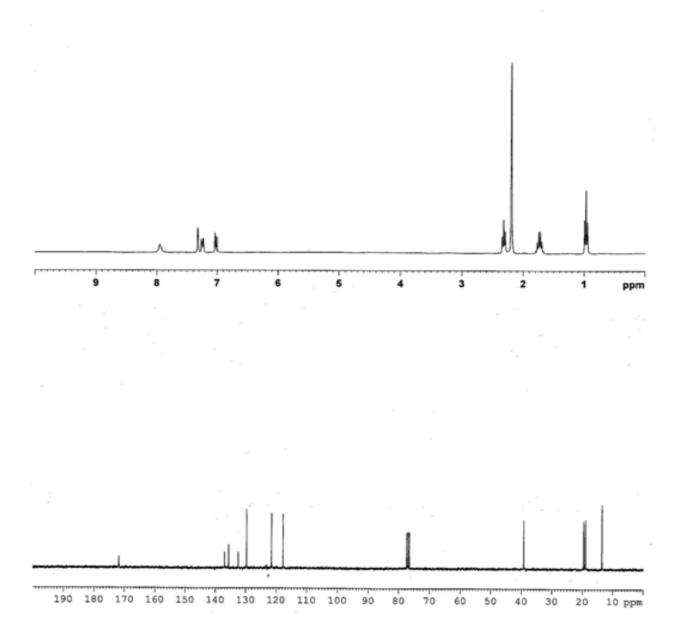


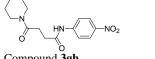




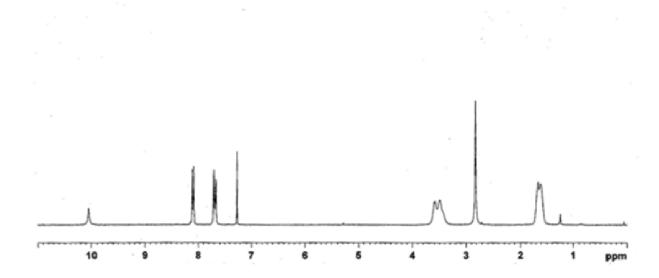


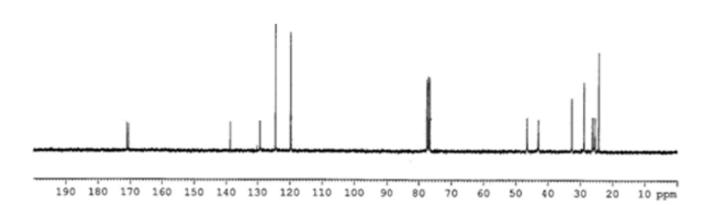


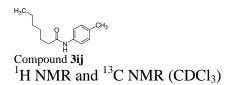


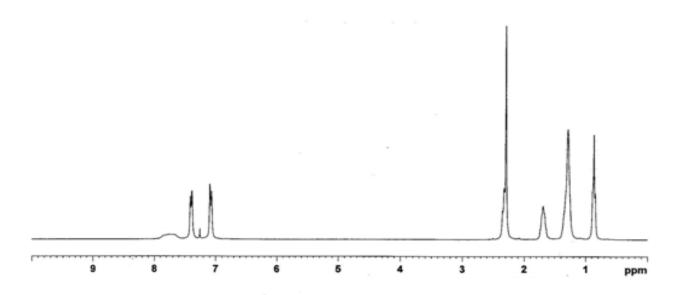


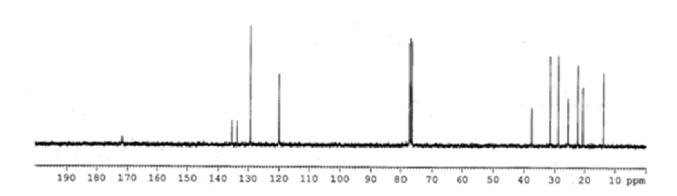
Compound **3gh** ¹H NMR and ¹³C NMR (CDCl₃)

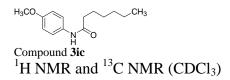


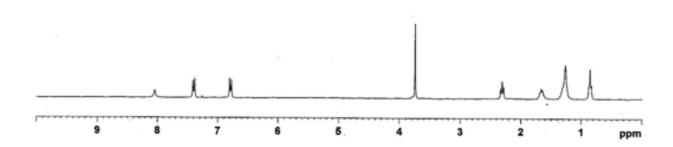


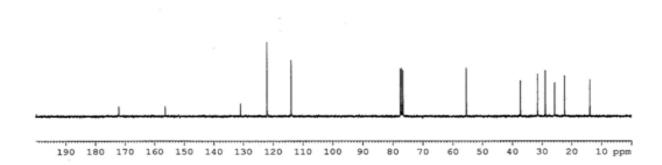


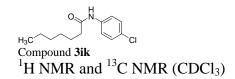


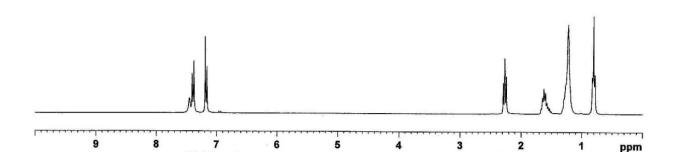


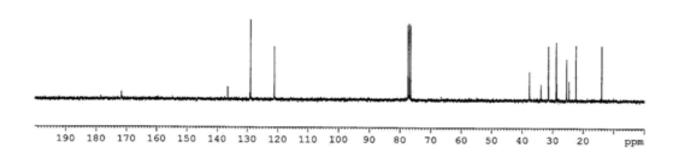


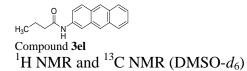


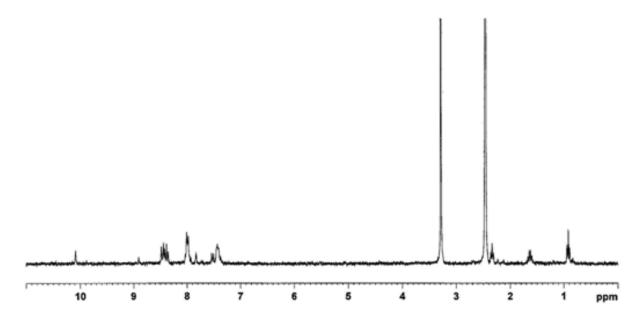


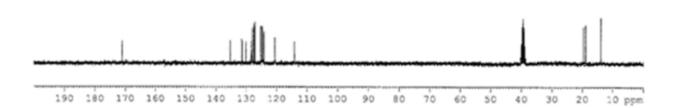


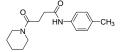




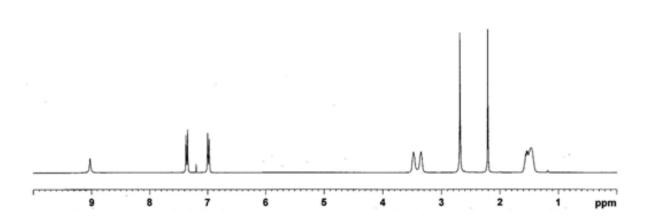


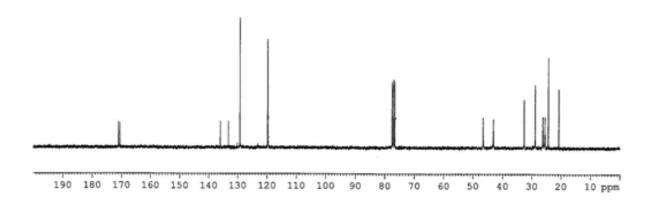






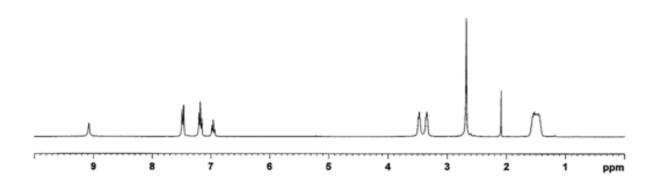
Compound **3gj** ¹H NMR and ¹³C NMR (CDCl₃)

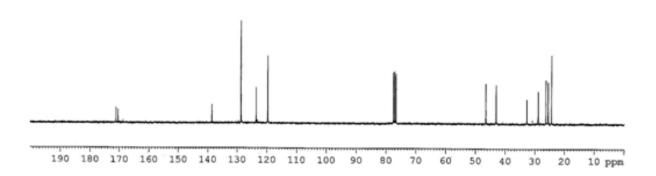


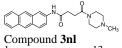




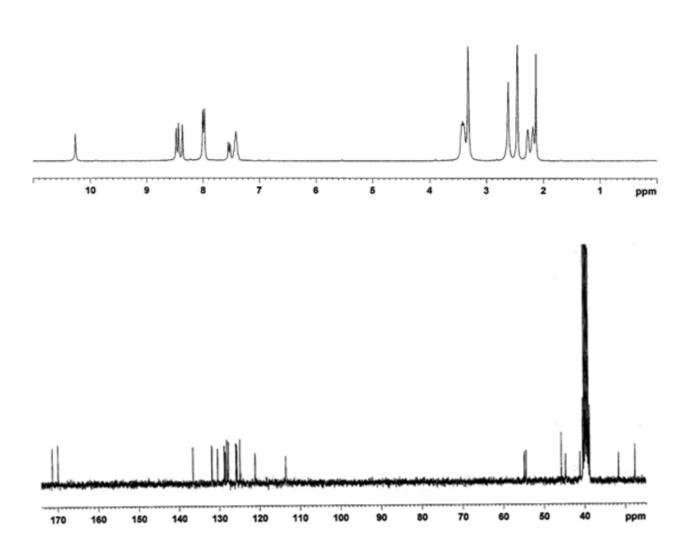
Compound **3gm**¹H NMR and ¹³C NMR (CDCl₃)



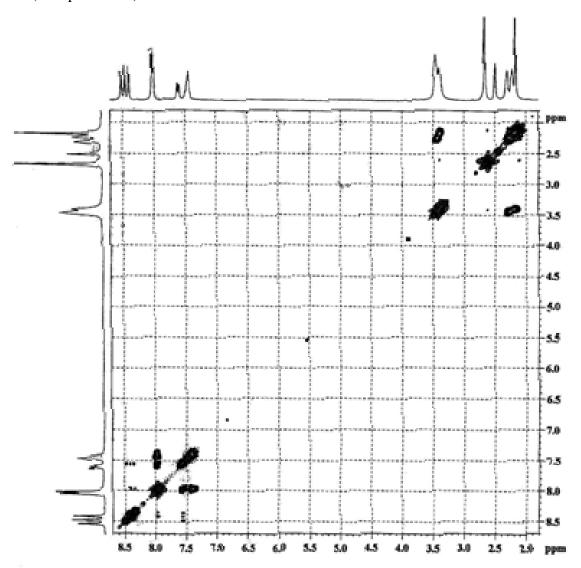




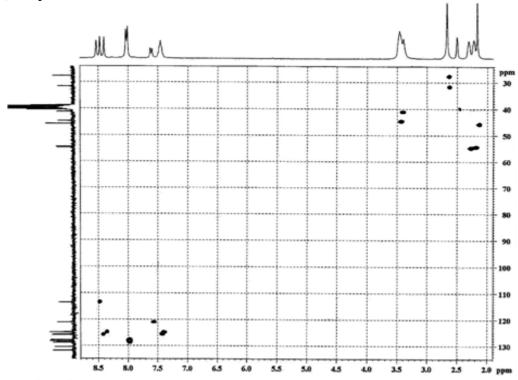
¹H NMR and ¹³C NMR (DMSO-*d*₆)



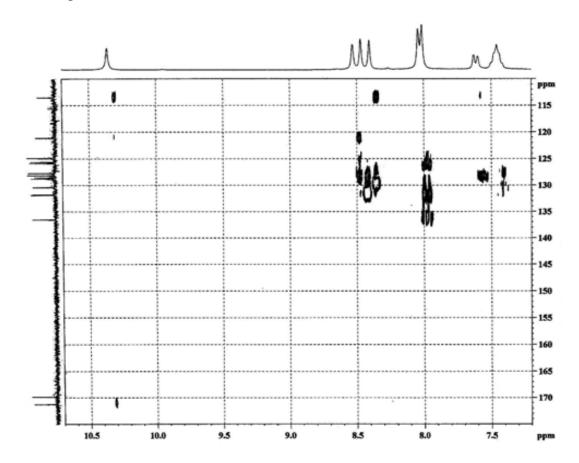
COSY (Compound 3nl)



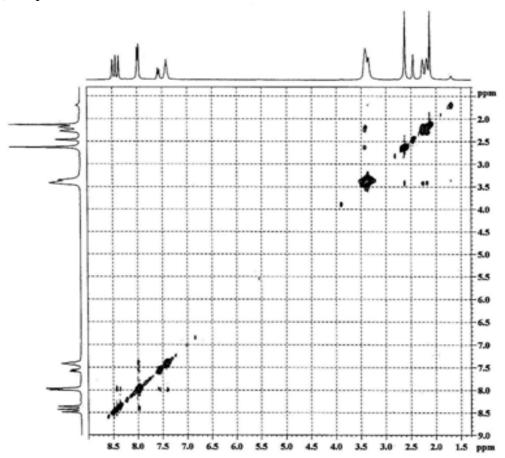
HSQC (Compound 3nl)

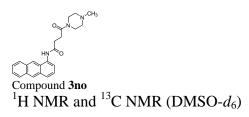


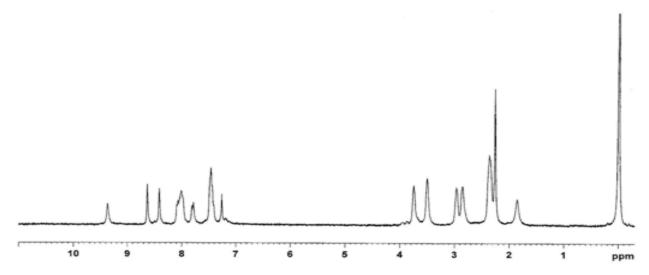
HMBC (Compound 3nl)

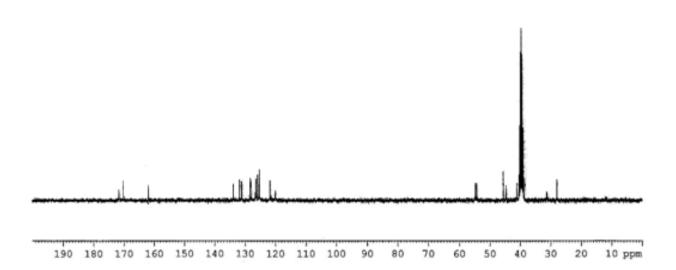


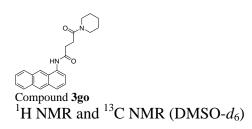
NOESY (Compound 3nl)

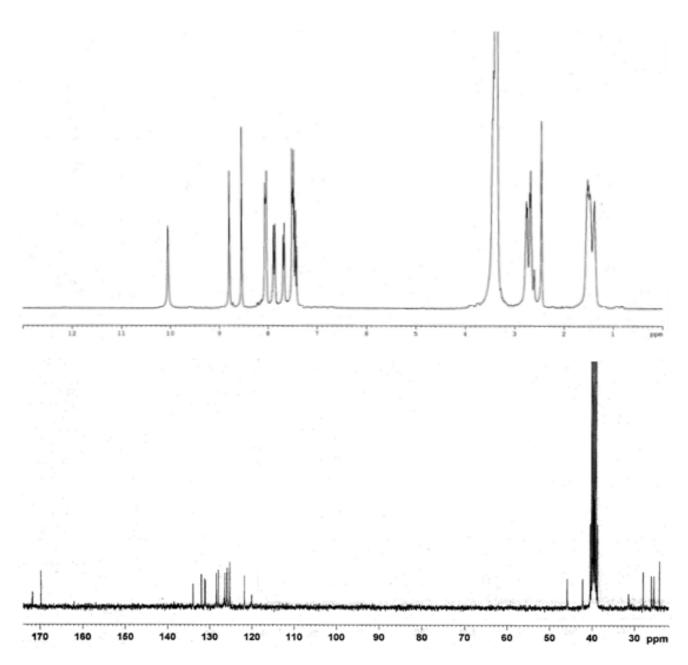




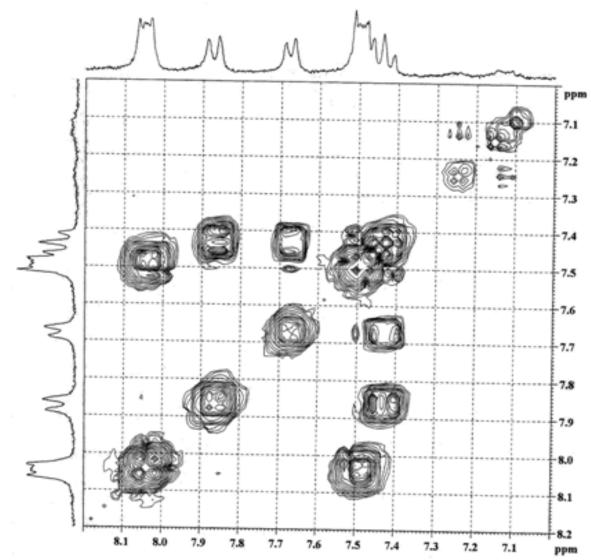




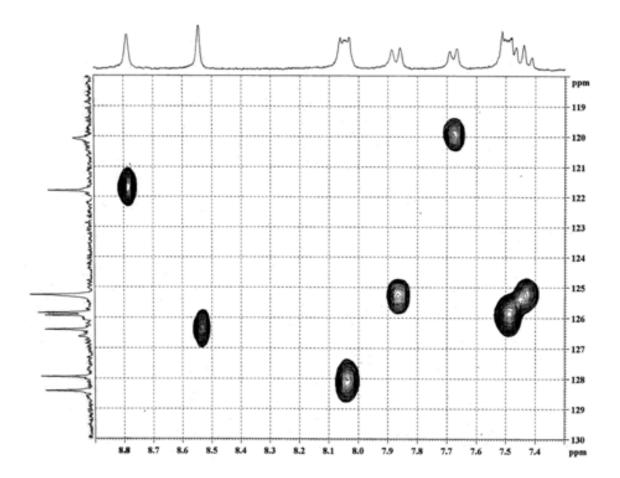




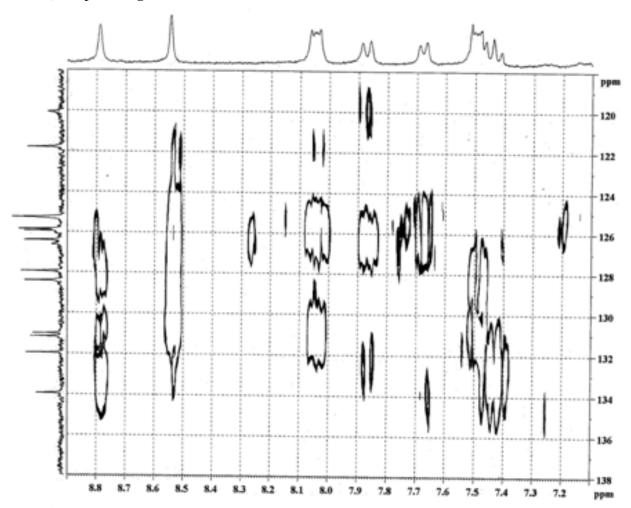
COSY (Compound 3go)



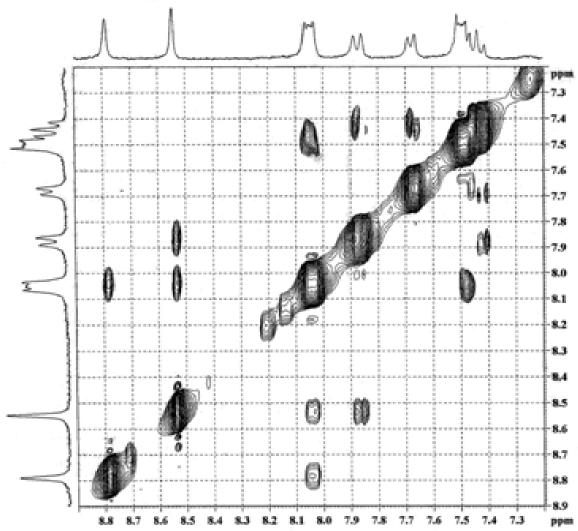
HSQC (Compound 3go)

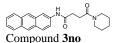


HMBC (Compound 3go)

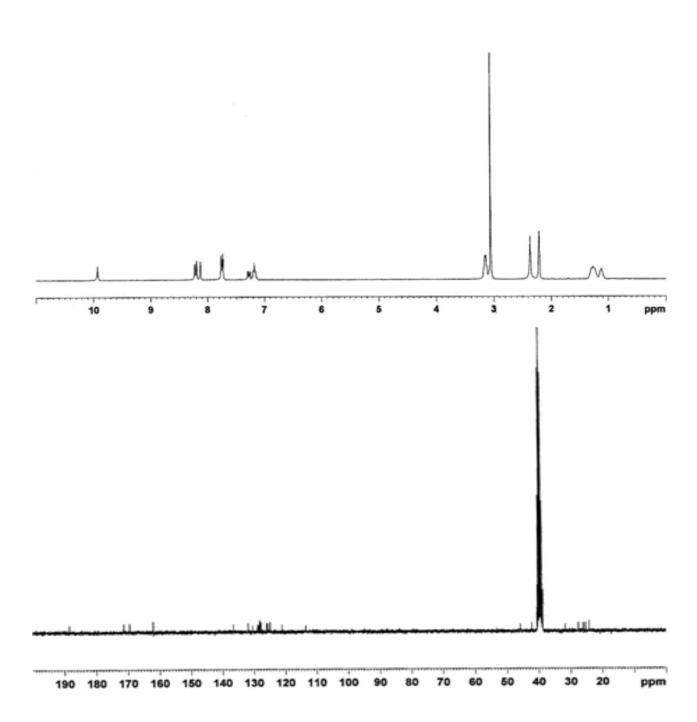


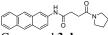




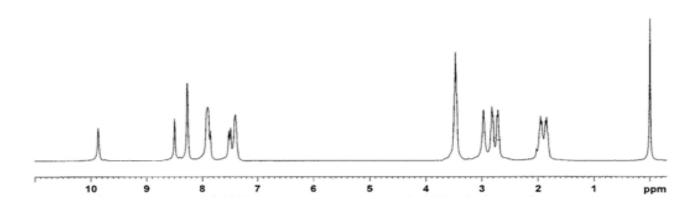


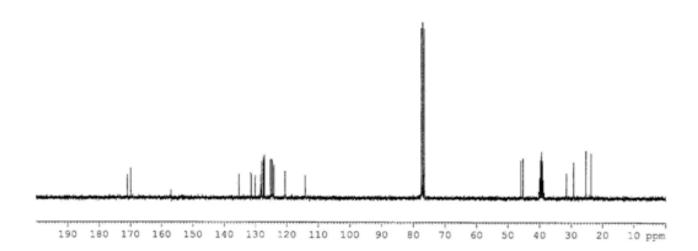
Compound **3no** ¹H NMR and ¹³C NMR (DMSO-*d*₆)

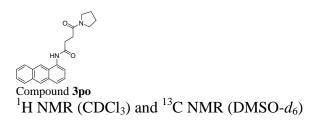


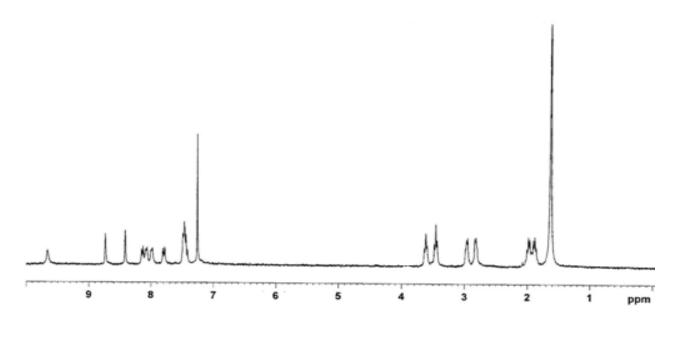


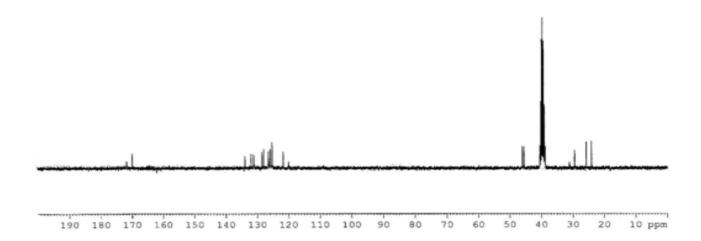
Compound **3pl** ¹H NMR and ¹³C NMR (CDCl₃)

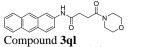




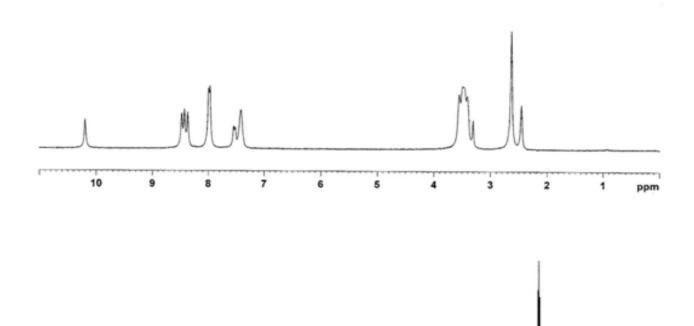


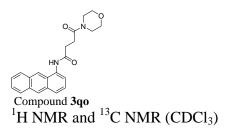


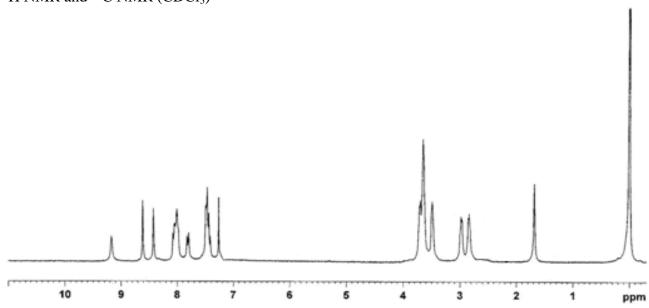


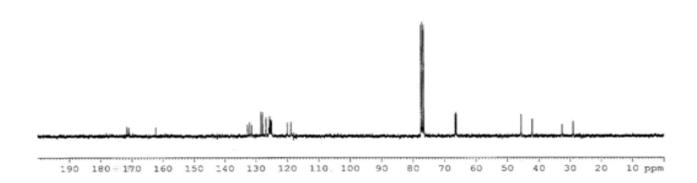


¹H NMR and ¹³C NMR (DMSO-*d*₆)

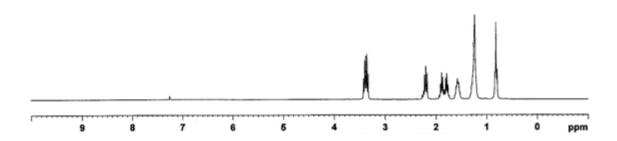


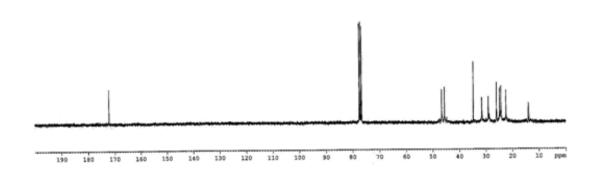


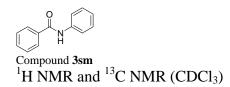


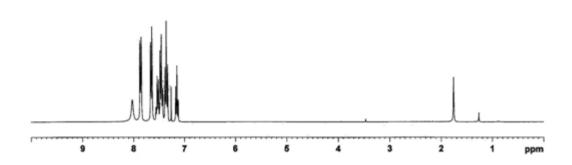


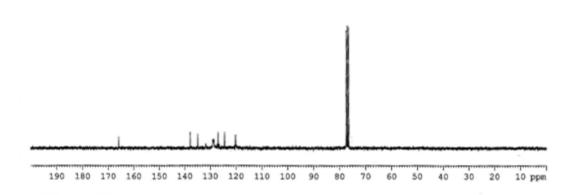
Compound **3ir**¹H NMR and ¹³C NMR (CDCl₃)

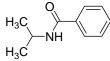




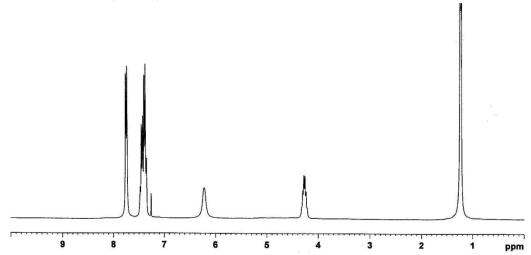


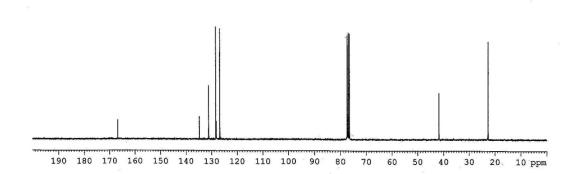


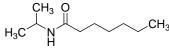




Compound **3st**¹H NMR and ¹³C NMR (CDCl₃)







Compound **3it** ¹H NMR and ¹³C NMR (CDCl₃)

