Electronic Supplementary Material (ESI) for RSC Advances.

Supporting information

for

Pd-Catalyzed direct C2-acylation and C2,C7-diacylation of indoles: Pyrimidine as easily removable C-H directing group

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Content

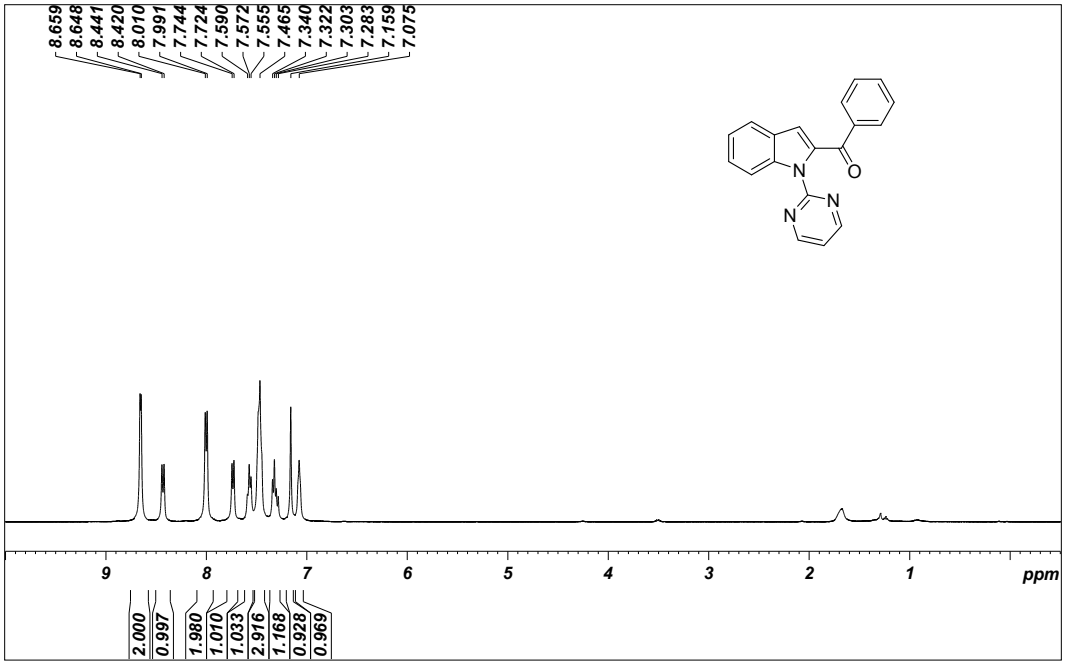

Figure 1: 400 MHz ^{1}H NMR spectrum of **3a** in $CDCl_3$

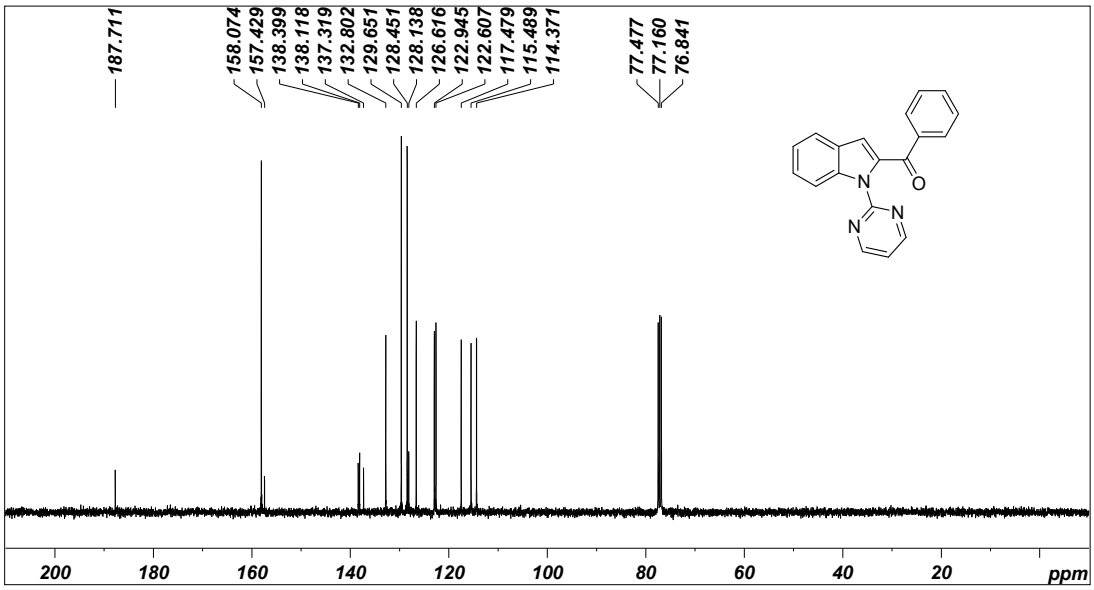

Figure 2: 100 MHz ^{13}C NMR spectrum of **3a** in $CDCl_3$

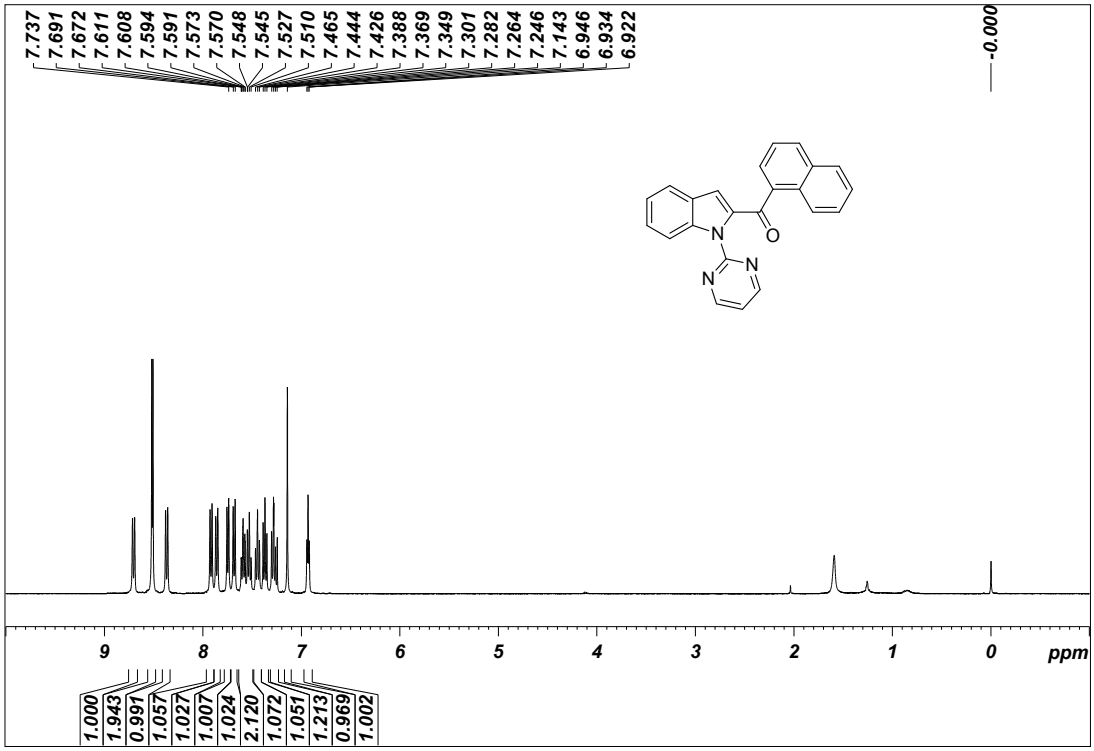

Figure 3: 400 MHz 1H NMR spectrum of **3b** in $CDCl_3$

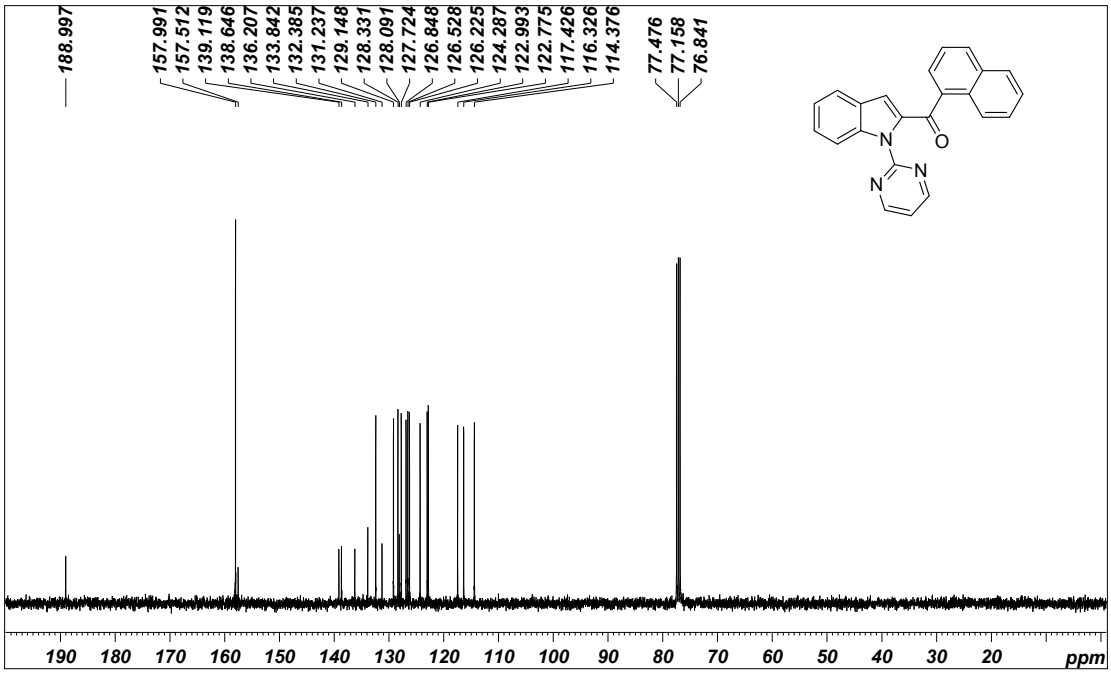

Figure 4: 100 MHz ^{13}C NMR spectrum of **3b** in $CDCl_3$

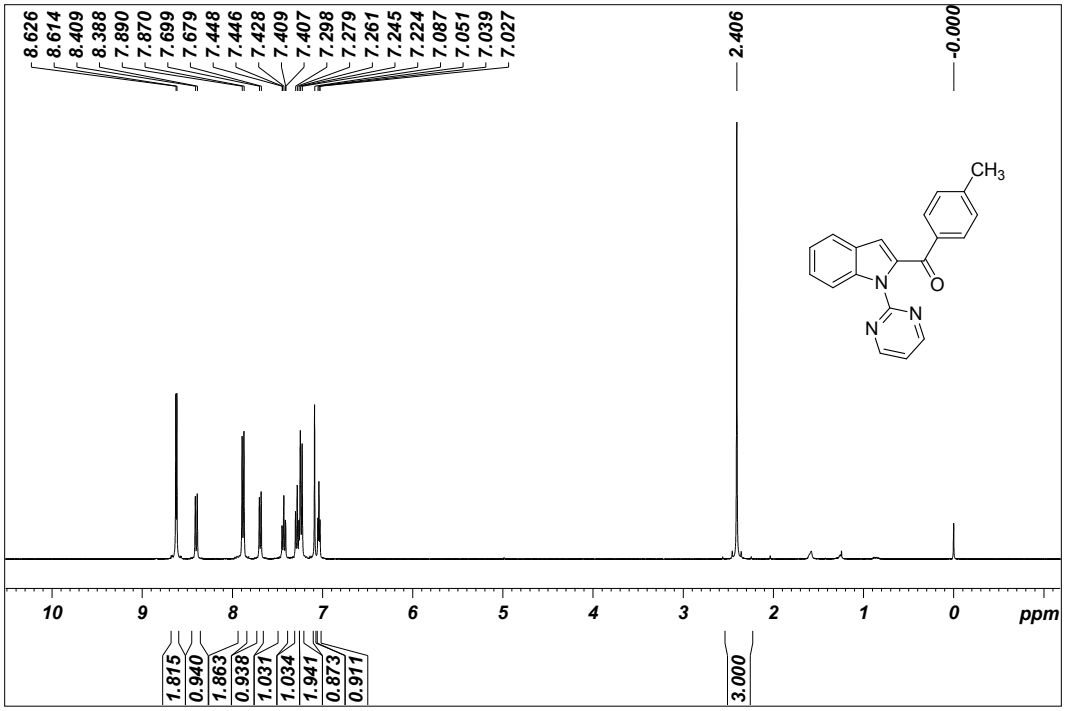

Figure 5: 100 MHz ^{13}C NMR spectrum of **3c** in $CDCl_3$

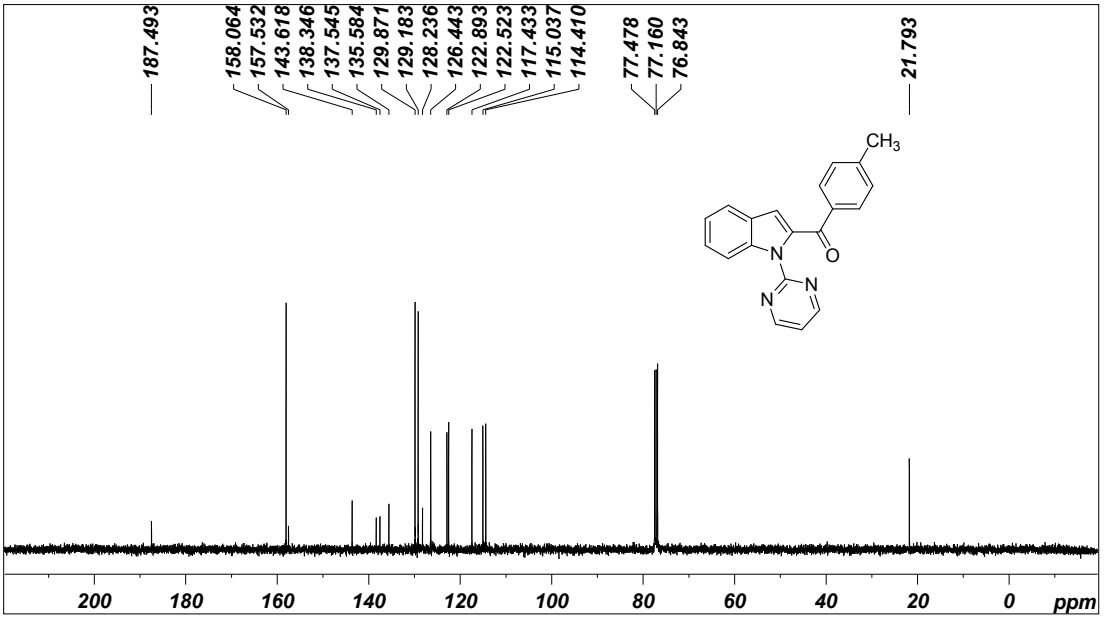

Figure 6: 100 MHz ^{13}C NMR spectrum of **3c** in $CDCl_3$

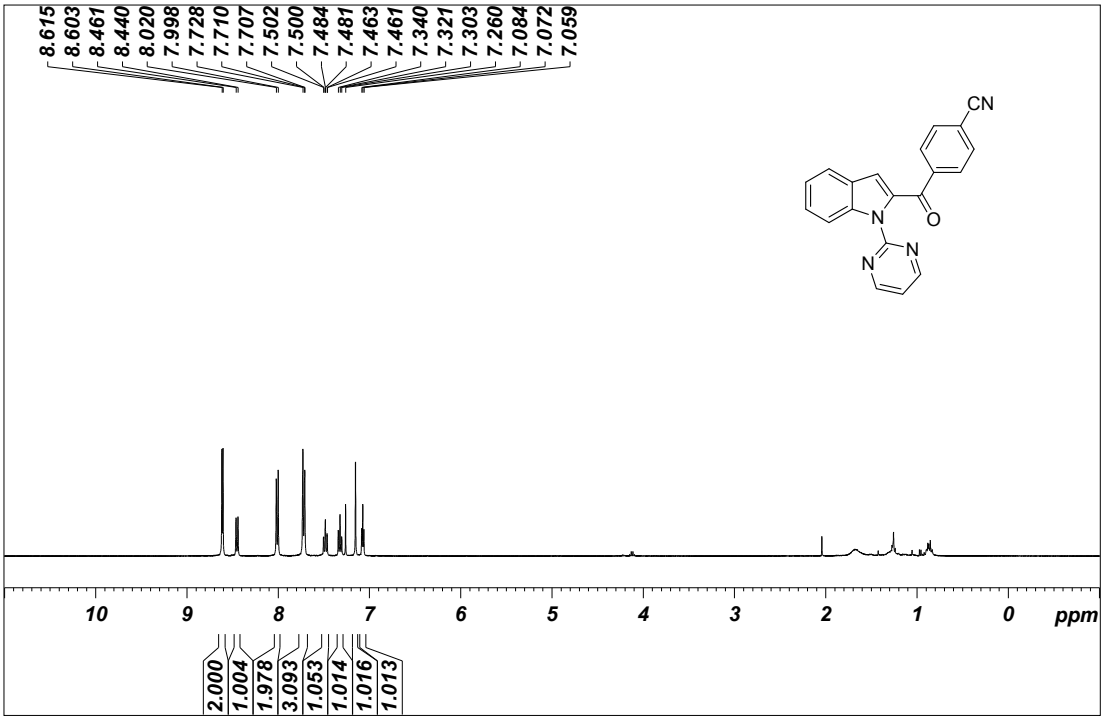

Figure 7 : 400 MHz ^{1}H NMR spectrum of **3d** in $CDCl_3$

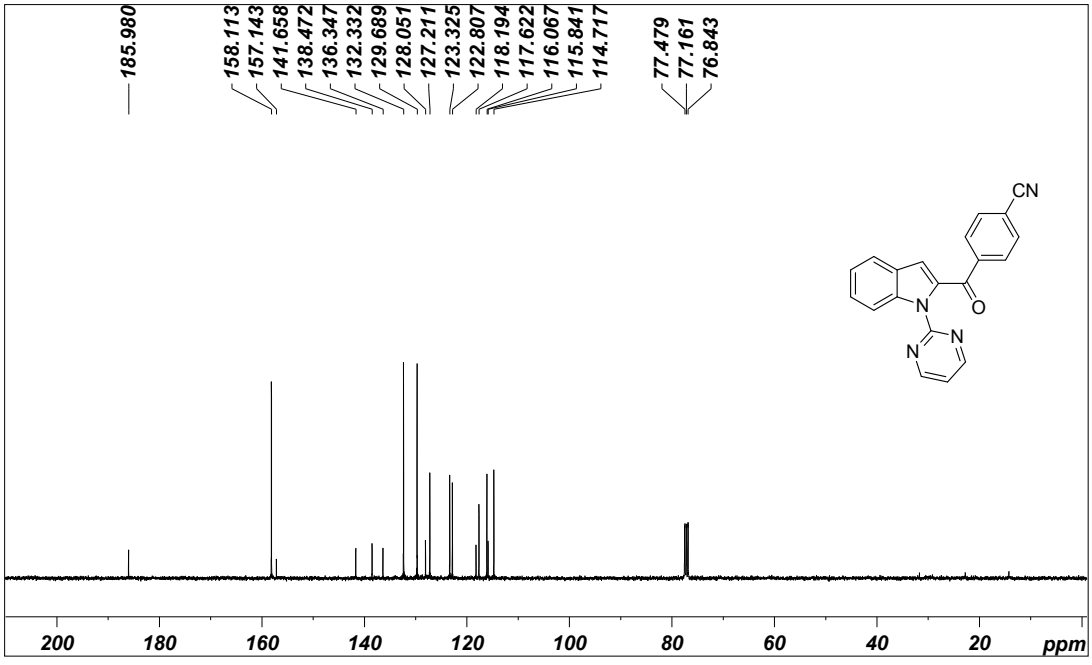

Figure 8 : 100 MHz ^{13}C NMR spectrum of **3d** in $CDCl_3$

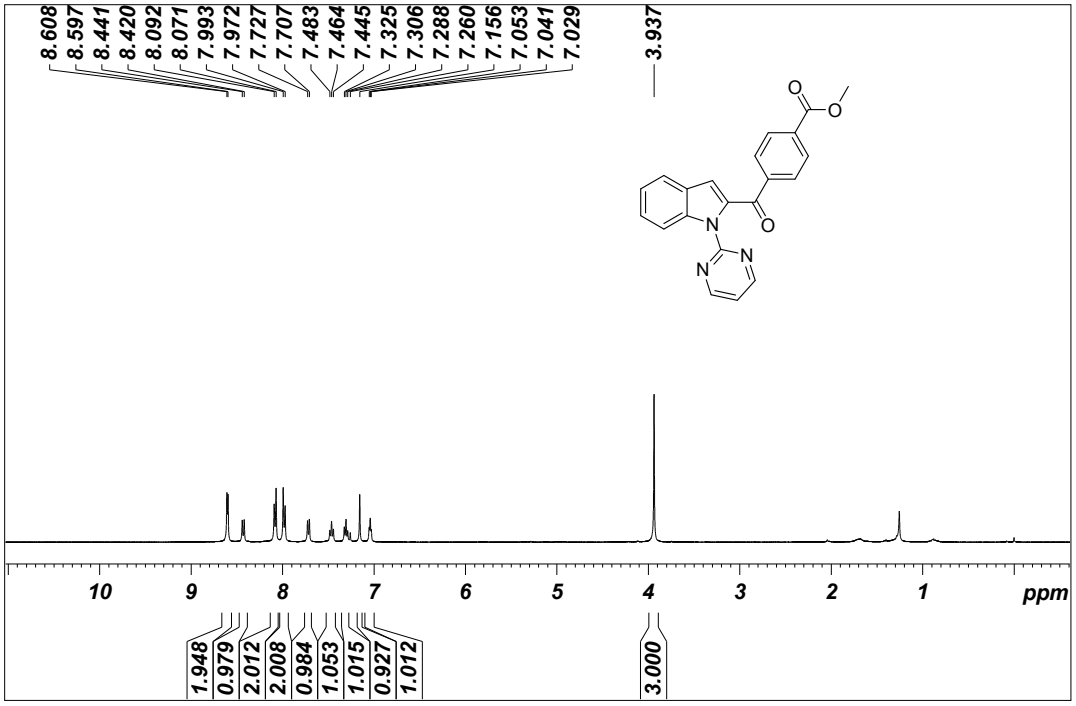

Figure 9 : 400 MHz ^{1}H NMR spectrum of **3e** in $CDCl_3$

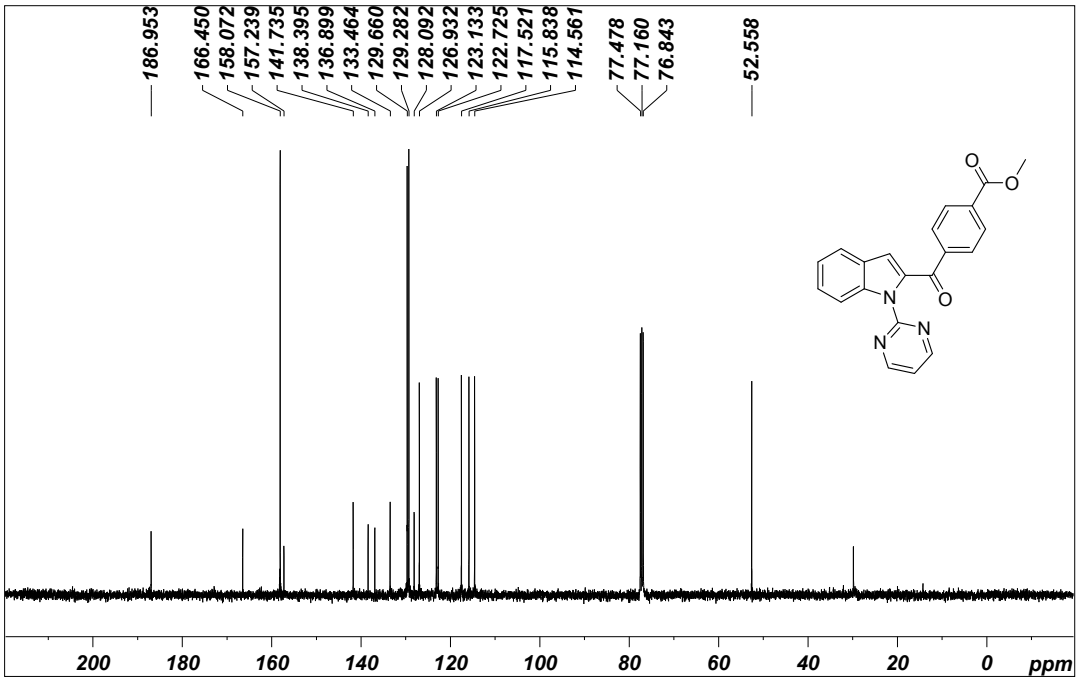

Figure 10 : 100 MHz ^{13}C NMR spectrum of **3e** in $CDCl_3$

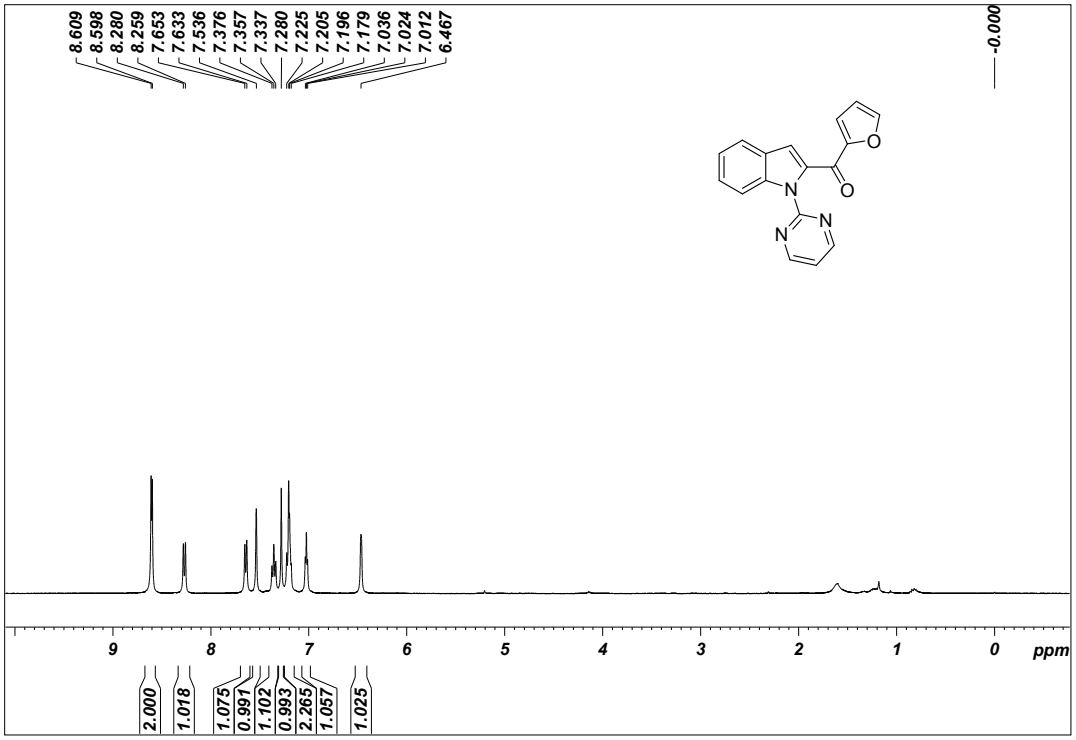

Figure 11 : 400 MHz ^{1}H NMR spectrum of **3f** in $CDCl_3$

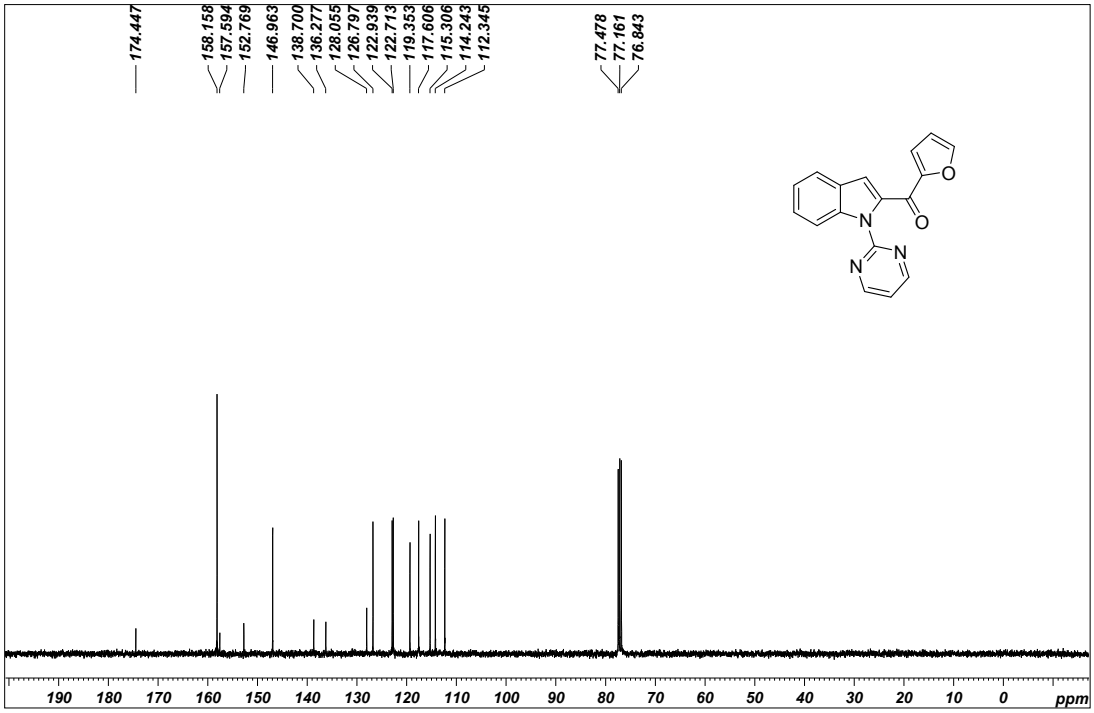

Figure 12 : 100 MHz ^{13}C NMR spectrum of **3f** in $CDCl_3$

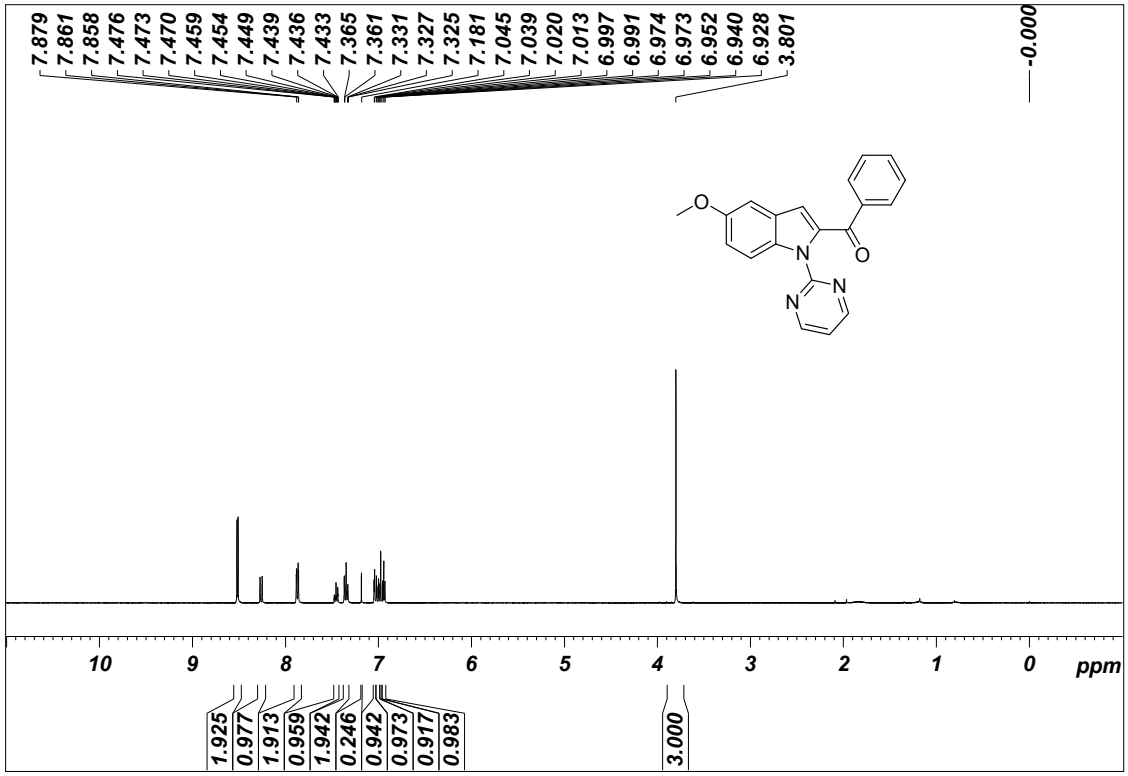

Figure 13 : 400 MHz ^{1}H NMR spectrum of **3g** in $CDCl_3$

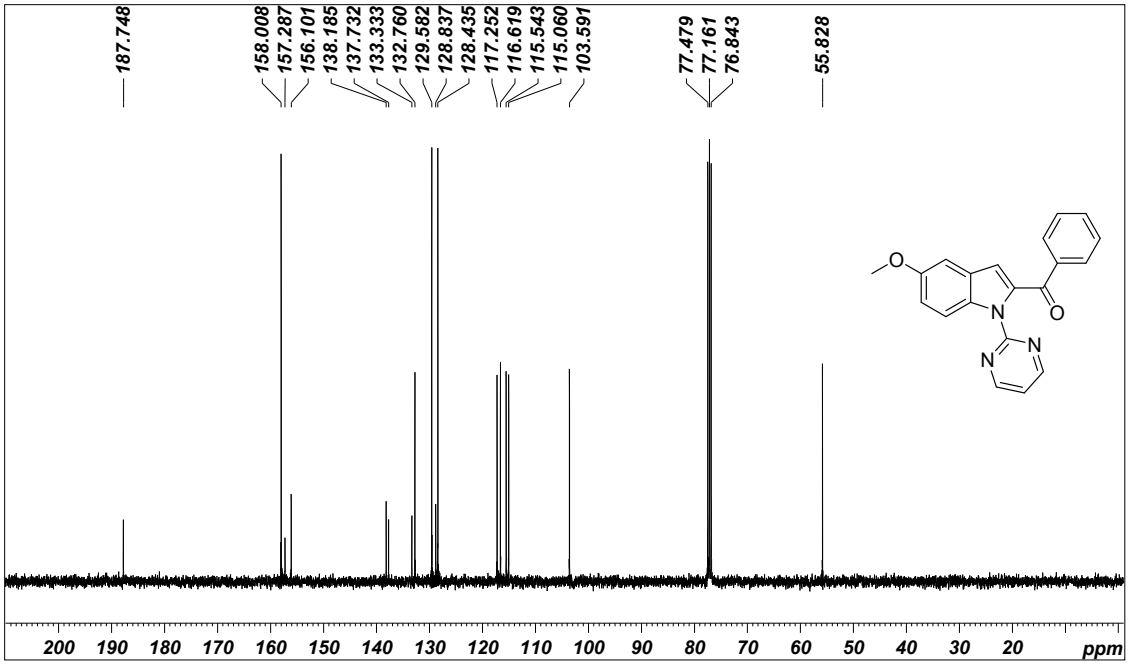

Figure 14 : 100 MHz ^{13}C NMR spectrum of **3g** in $CDCl_3$

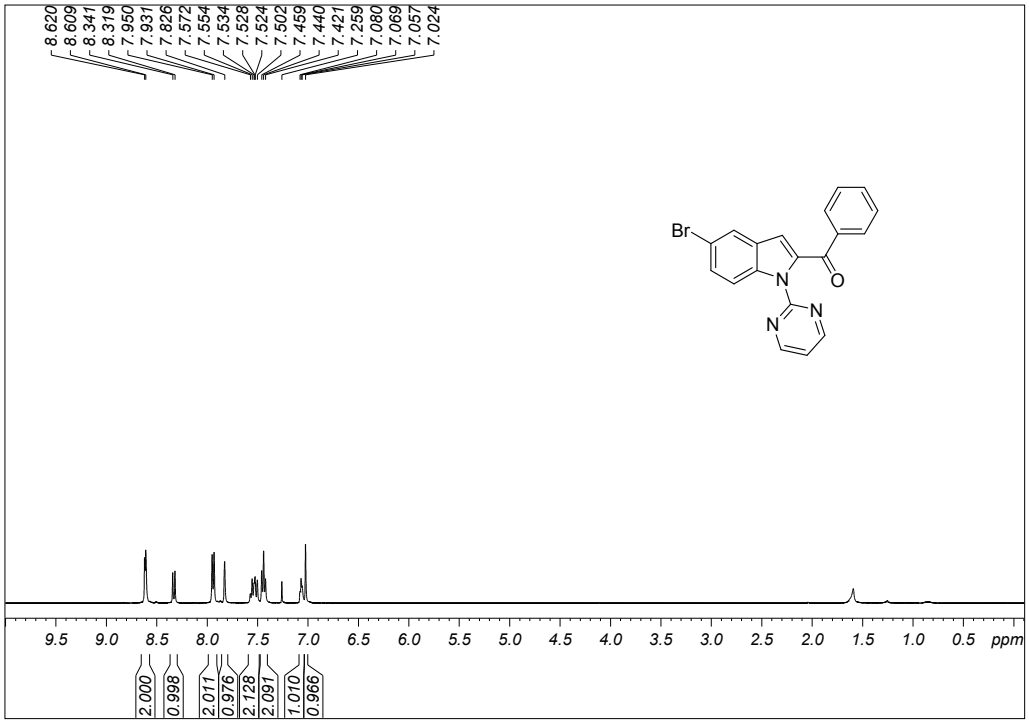

Figure 15 : 400 MHz ^{1}H NMR spectrum of **3h** in $CDCl_3$

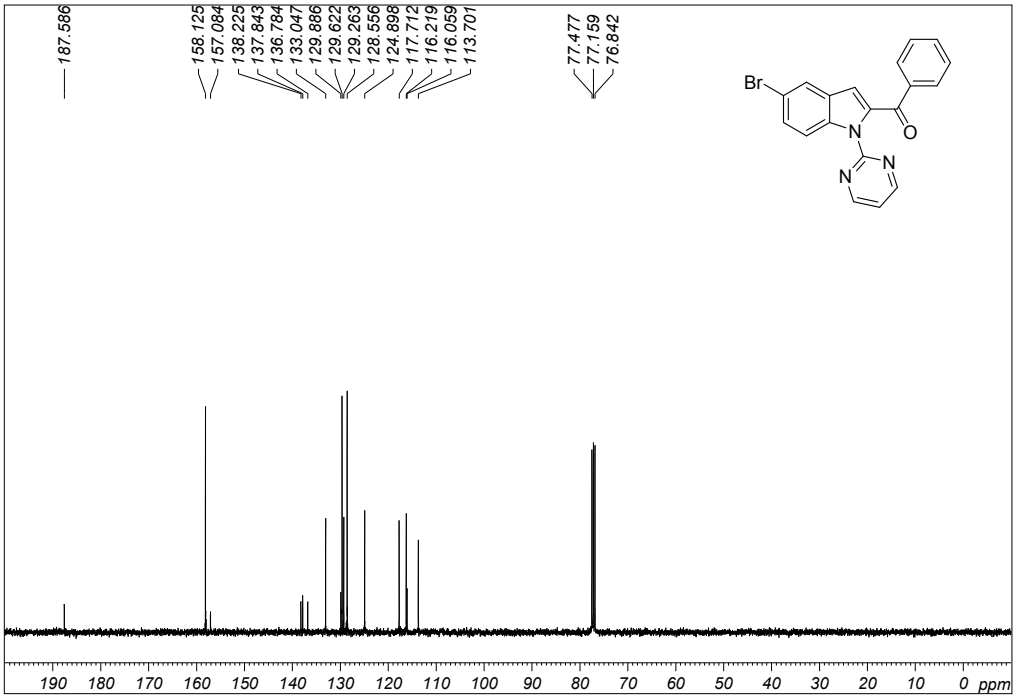

Figure 16: 100 MHz ^{13}C NMR spectrum of **3h** in $CDCl_3$

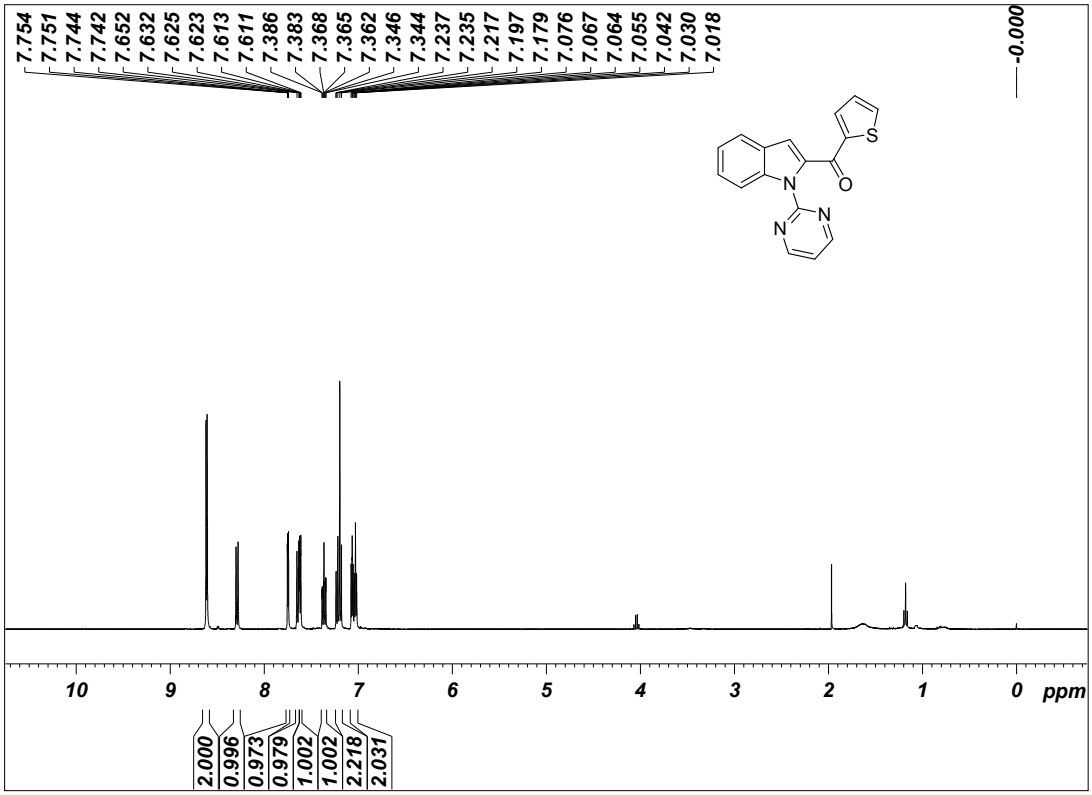

Figure 17 : 400 MHz 1H NMR spectrum of **3i** in $CDCl_3$

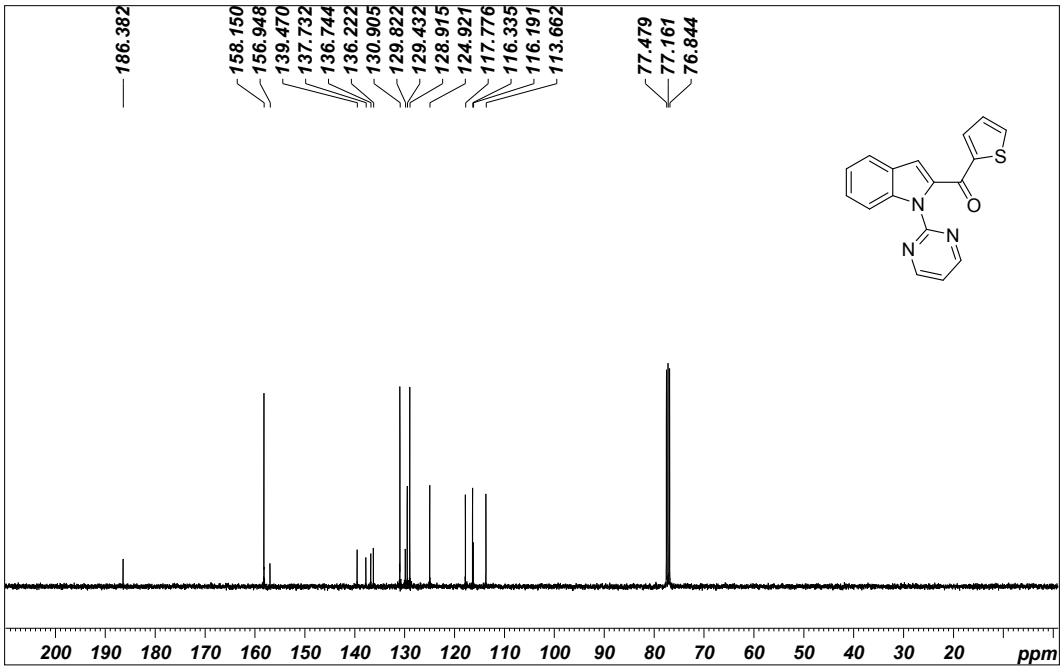

Figure 18 : 100 MHz ^{13}C NMR spectrum of **3i** in $CDCl_3$

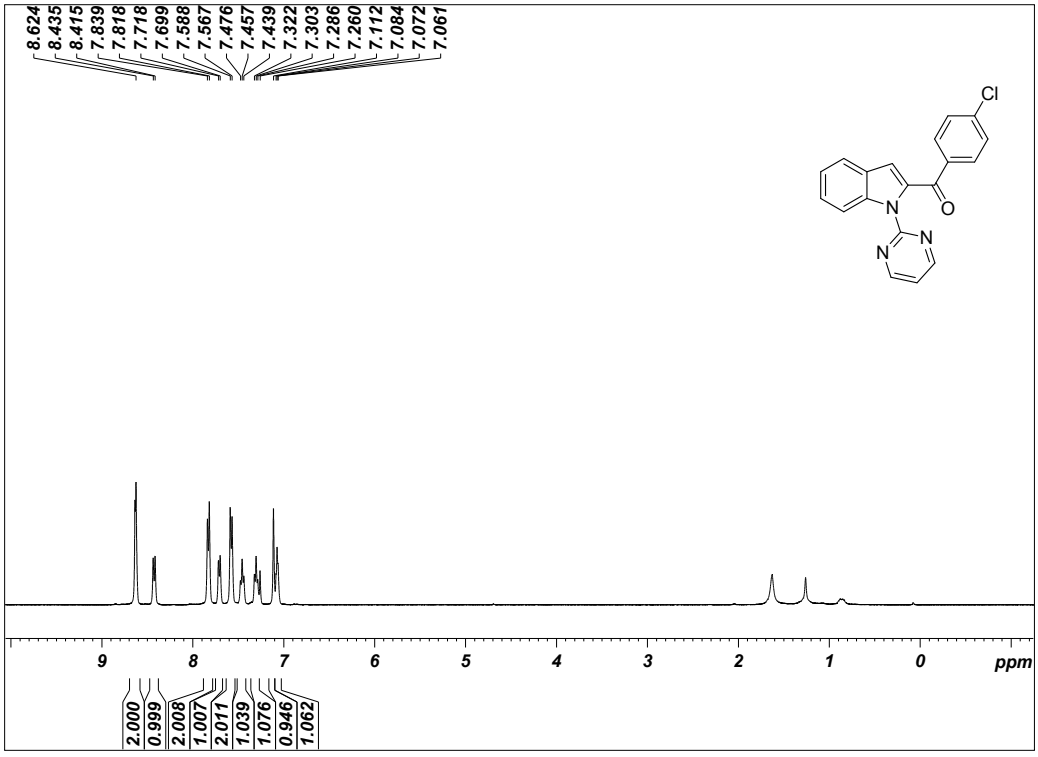

Figure 19 : 400 MHz ^{1}H NMR spectrum of **3j** in $CDCl_3$

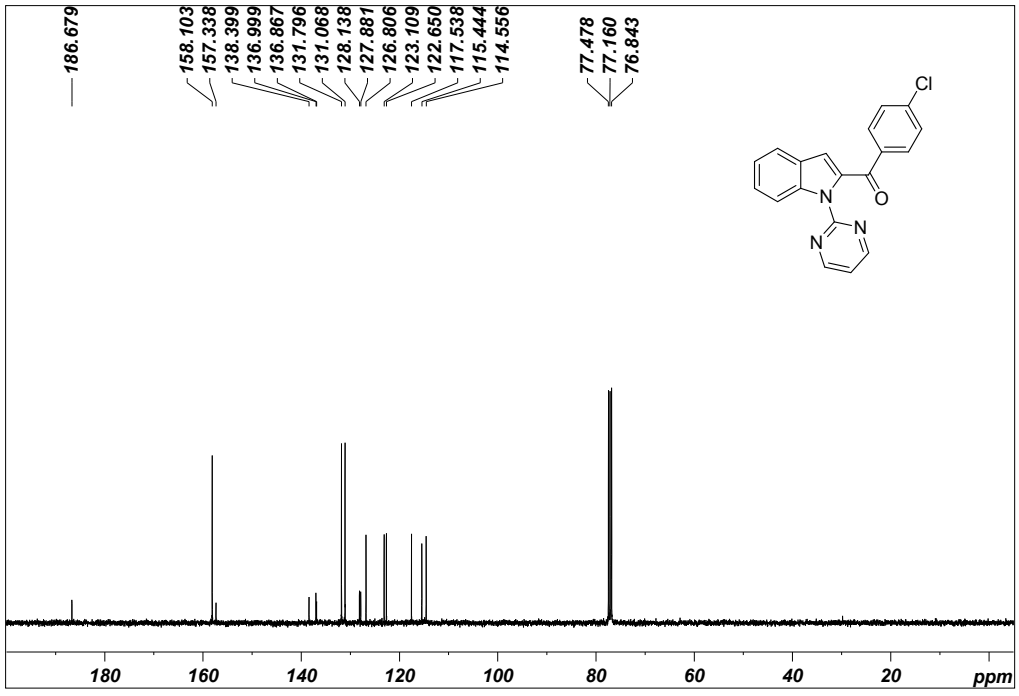

Figure 20 : 100 MHz ^{13}C NMR spectrum of **3j** in $CDCl_3$

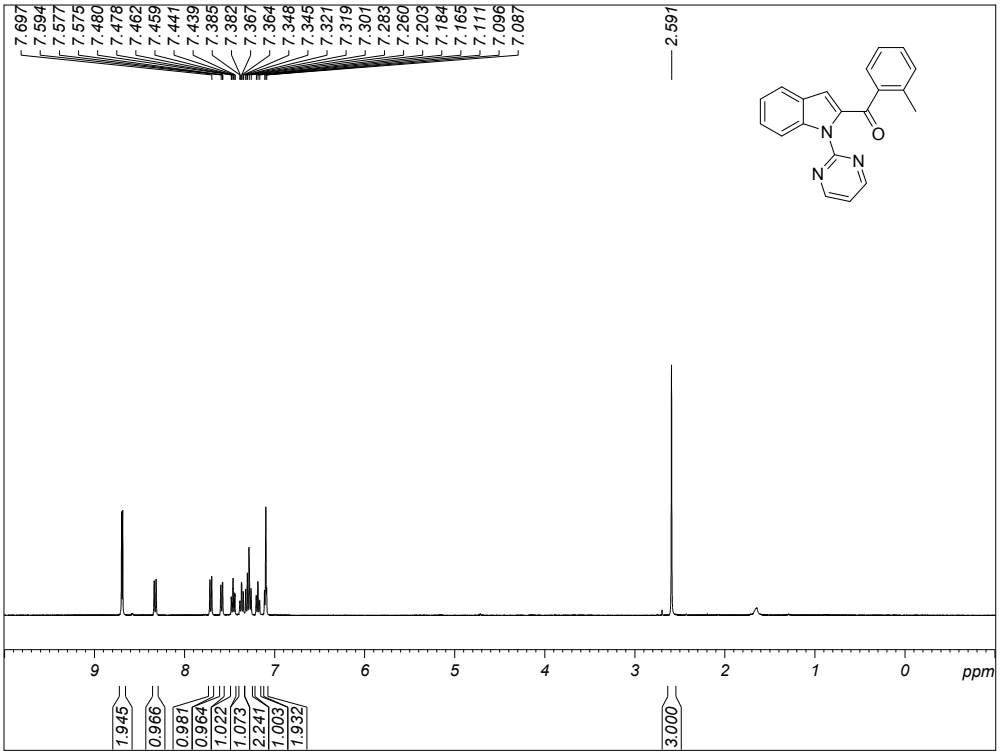

Figure 21 : 400 MHz ^{1}H NMR spectrum of **3k** in $CDCl_3$

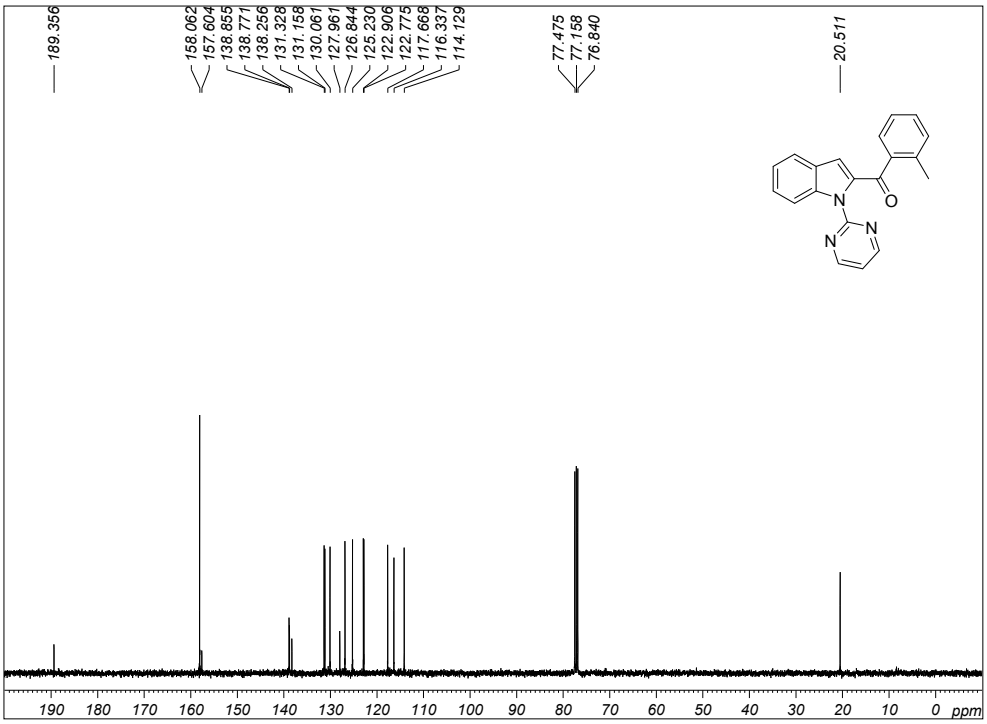

Figure 22 : 100 MHz ^{13}C NMR spectrum of **3k** in $CDCl_3$

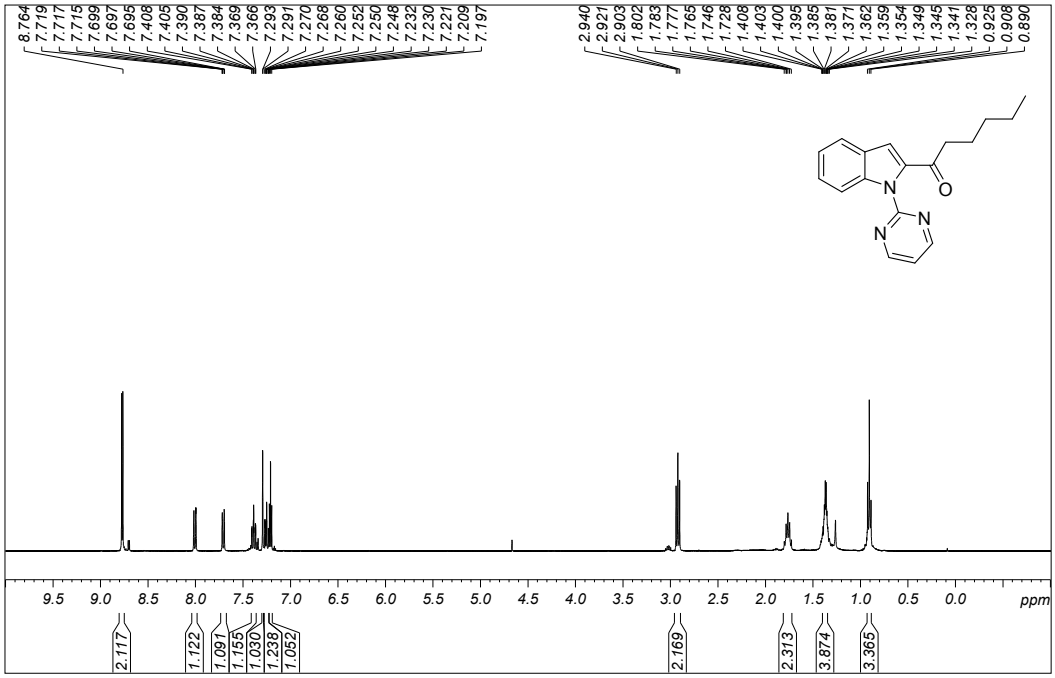

Figure 23 : 400 MHz ^{1}H NMR spectrum of **3l** in $CDCl_3$

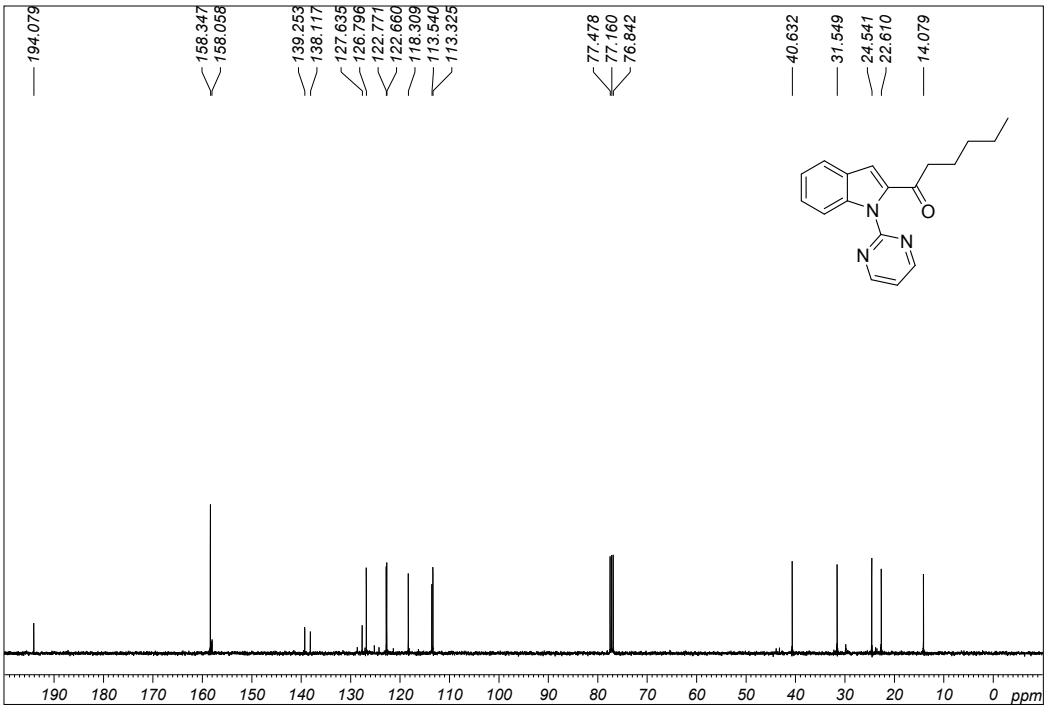

Figure 24 : 100 MHz ^{13}C NMR spectrum of **3l** in $CDCl_3$

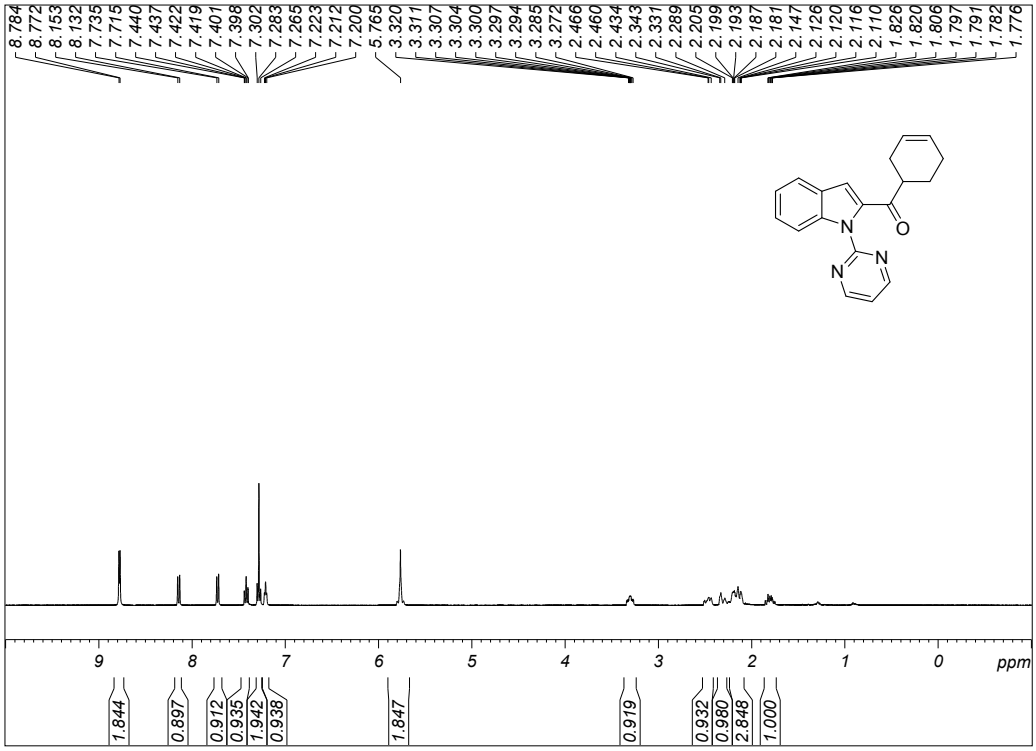

Figure 25 : 400 MHz ^{1}H NMR spectrum of **3m** in $CDCl_3$

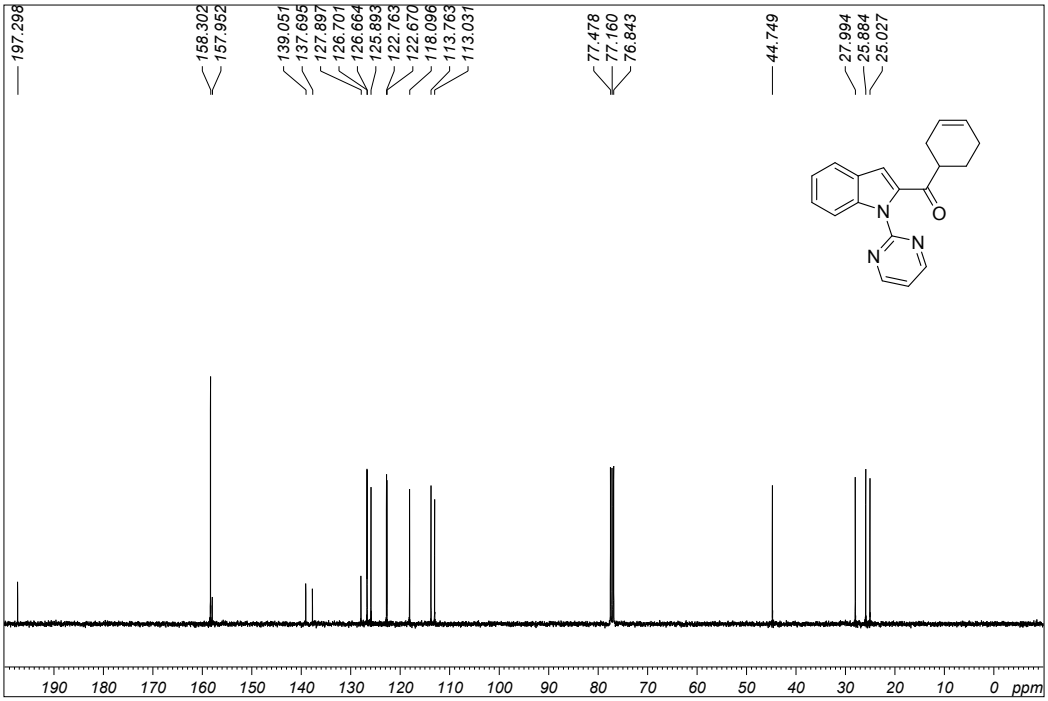

Figure 26 : 100 MHz ^{13}C NMR spectrum of **3m** in $CDCl_3$

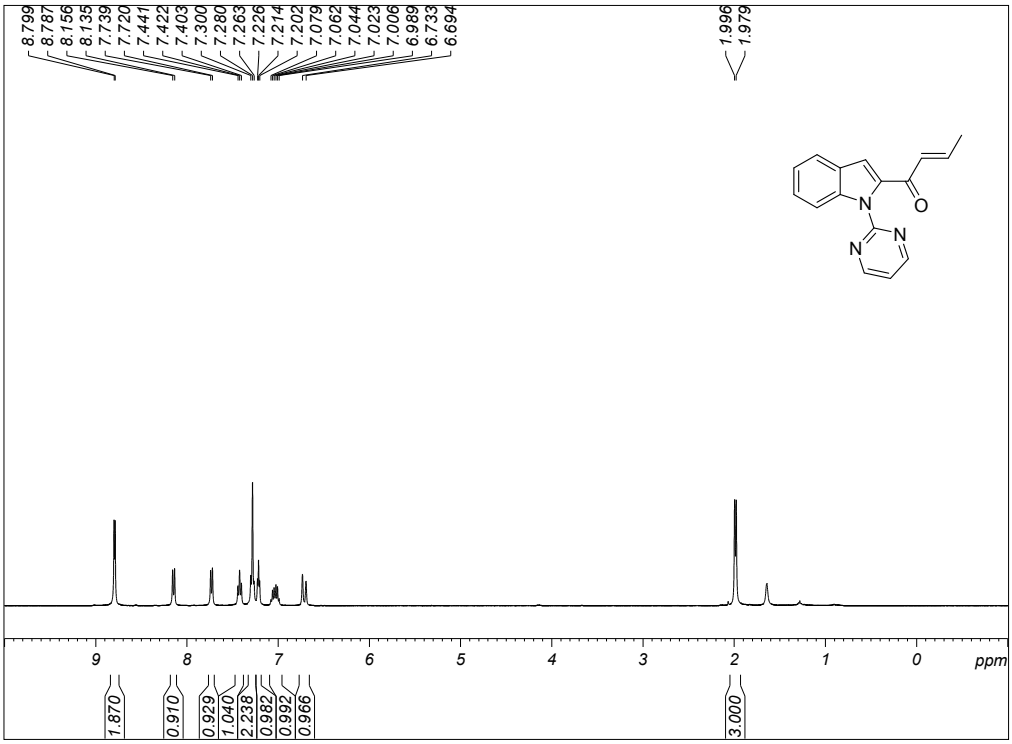

Figure 27 : 400 MHz ^{1}H NMR spectrum of **3n** in $CDCl_3$

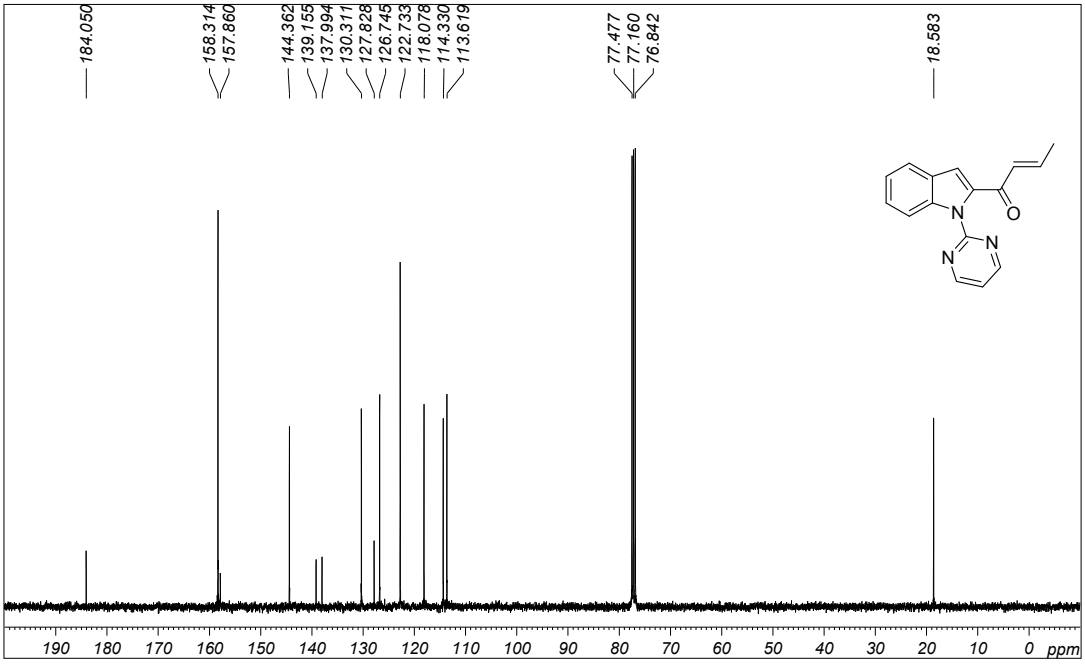

Figure 28 : 100 MHz ^{13}C NMR spectrum of **3n** in $CDCl_3$

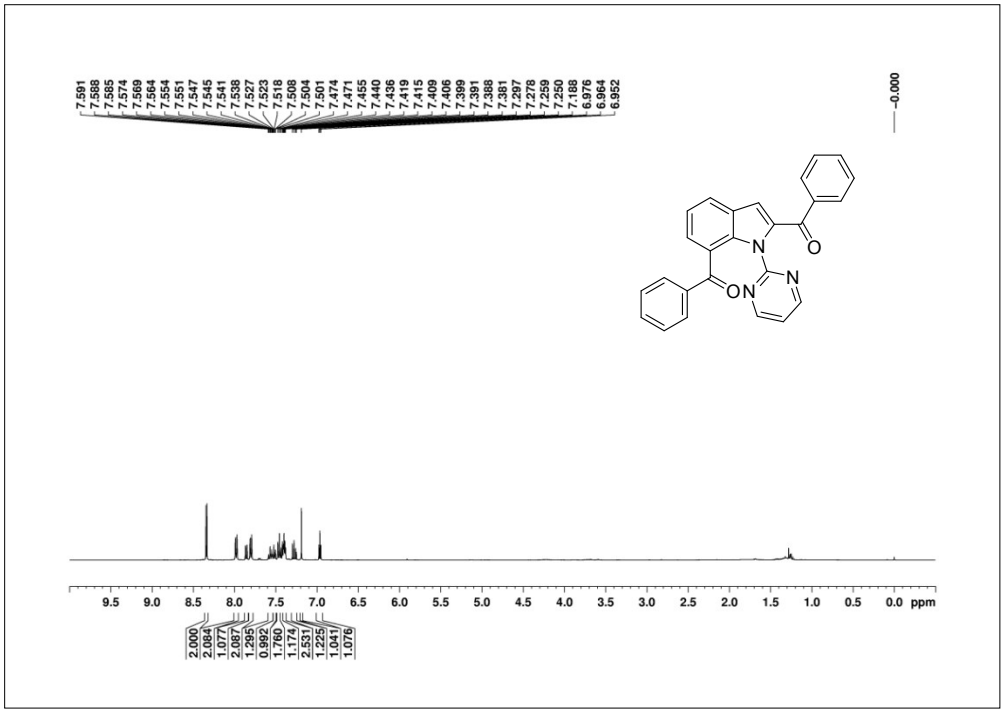

Figure 29 : 400 MHz ^{1}H NMR spectrum of **4a** in $CDCl_3$

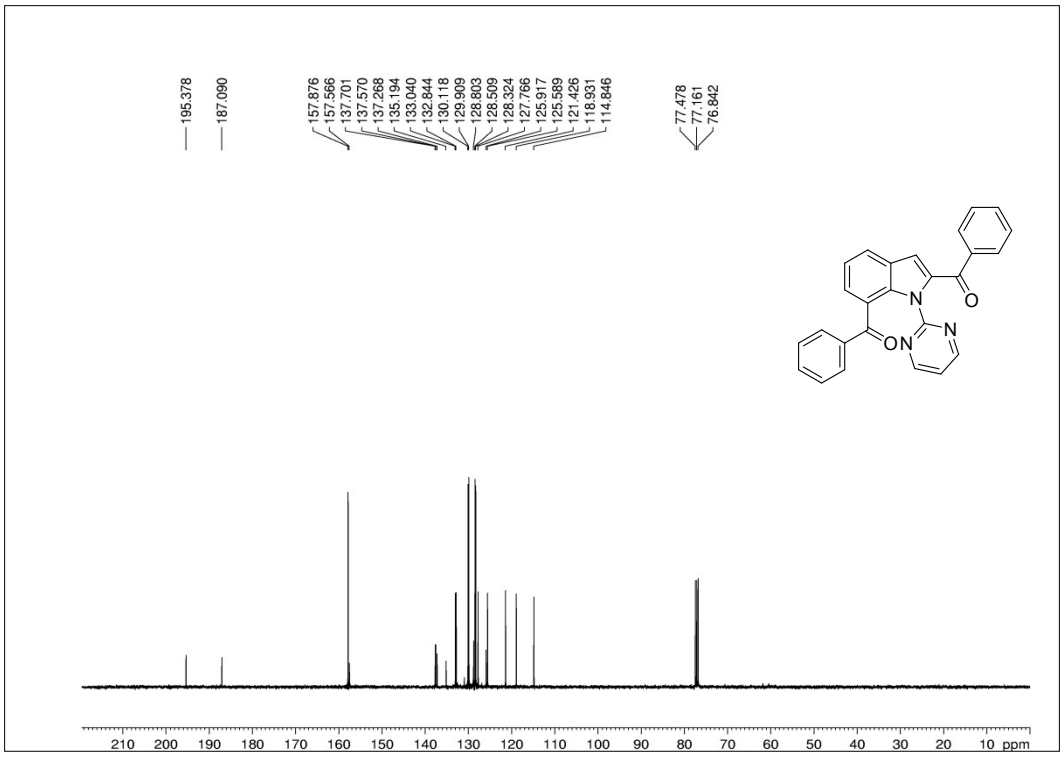

Figure 30 : 100 MHz ^{13}C NMR spectrum of **4a** in $CDCl_3$

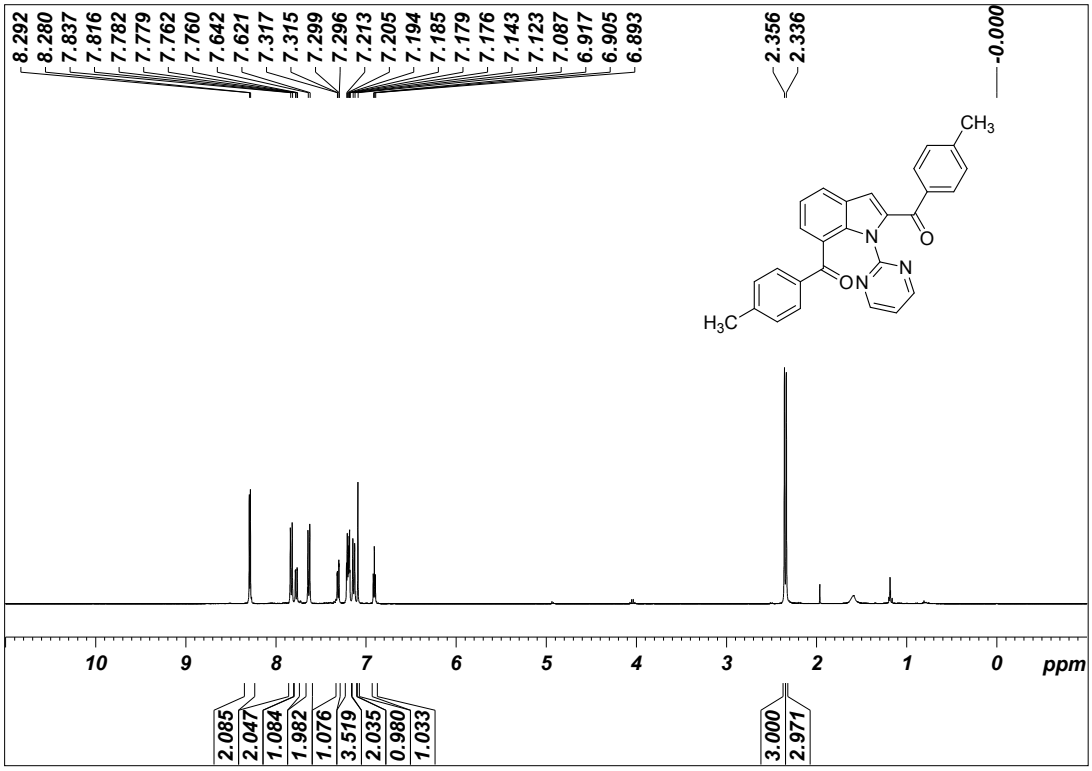

Figure 31 : 400 MHz ^{1}H NMR spectrum of **4b** in $CDCl_3$

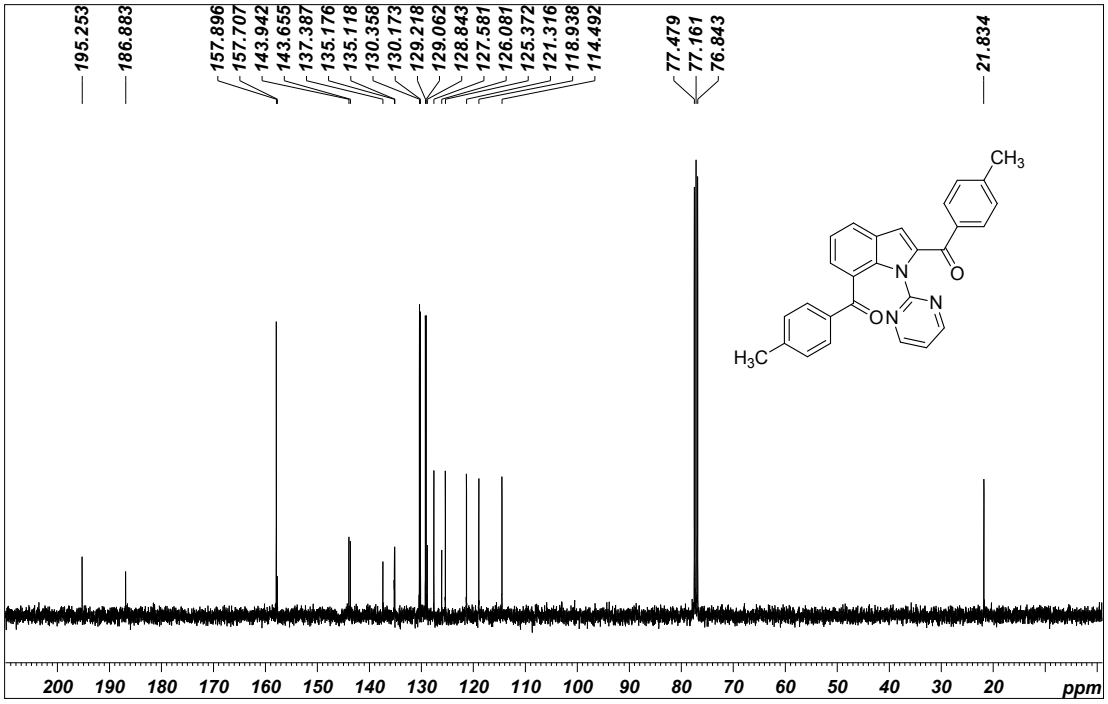

Figure 32 : 100 MHz ^{13}C NMR spectrum of **4b** in $CDCl_3$

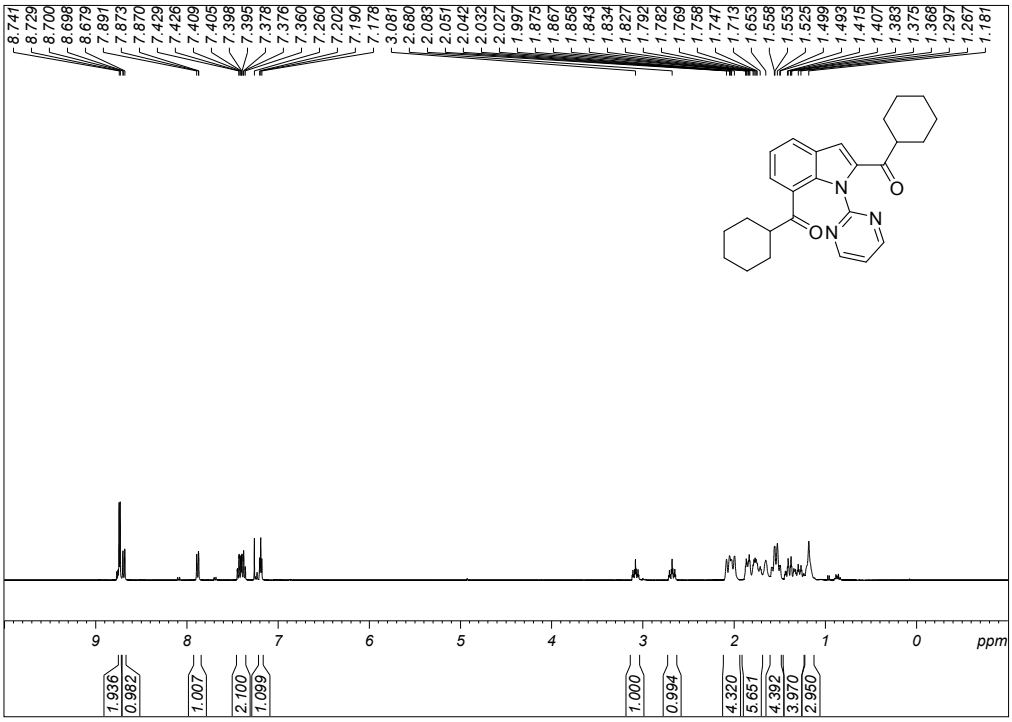

Figure 33 : 400 MHz ^{1}H NMR spectrum of **4c** in $CDCl_3$

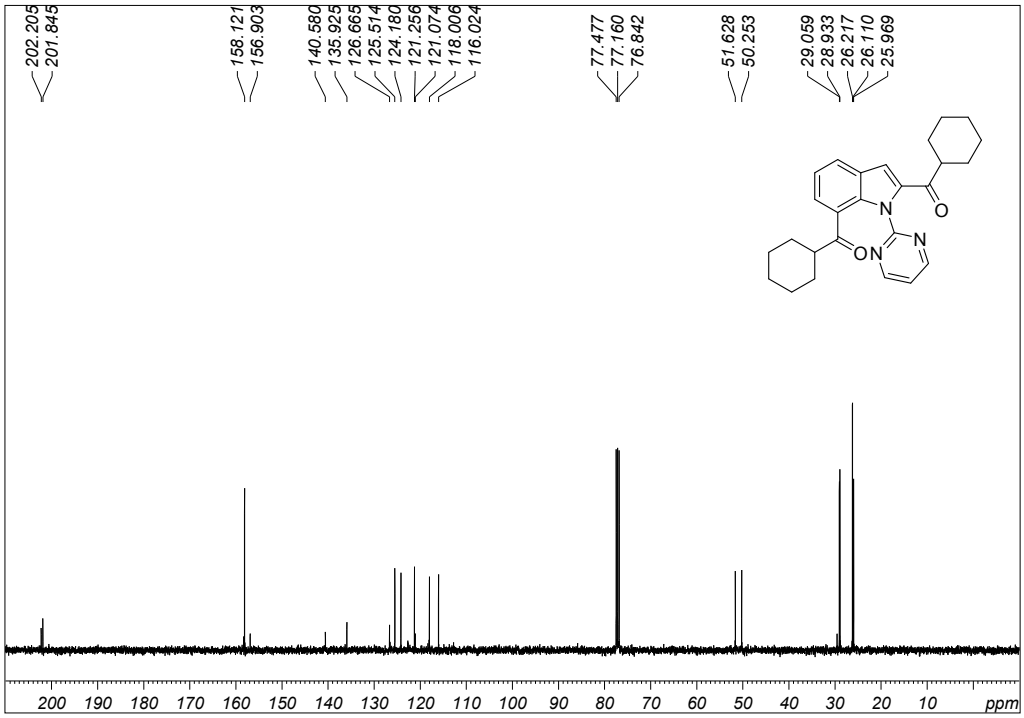

Figure 34: 100 MHz ^{13}C NMR spectrum of **4c** in $CDCl_3$

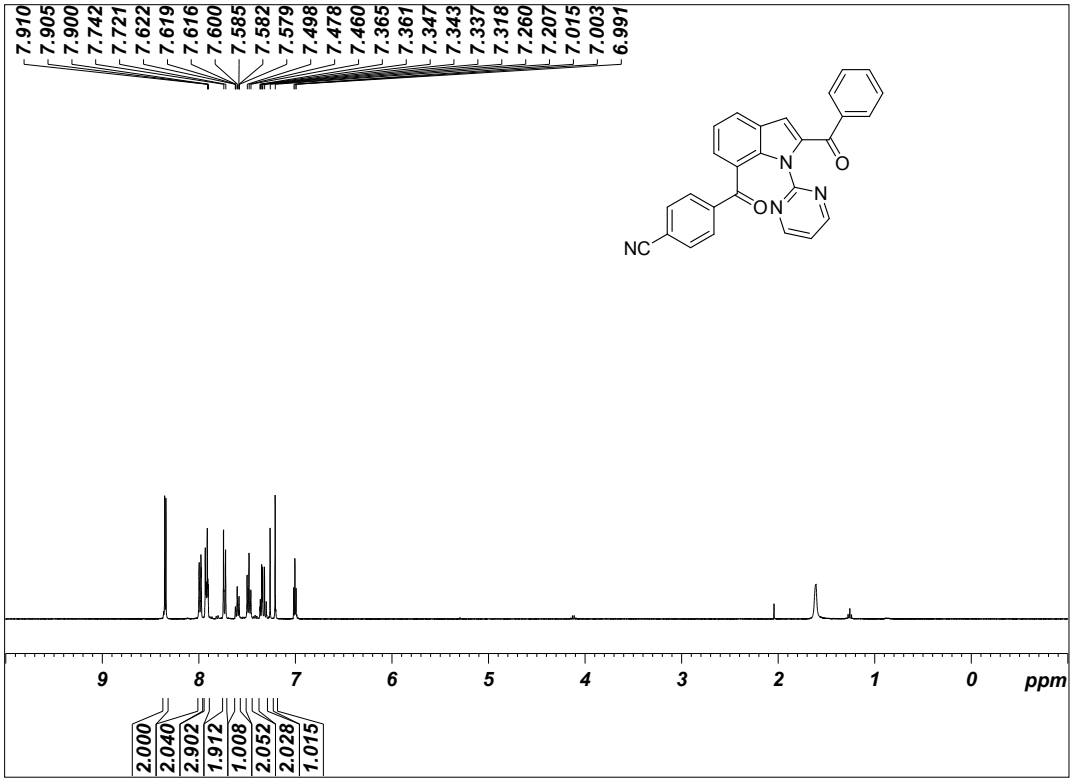

Figure 35 : 400 MHz ^{1}H NMR spectrum of **5a** in $CDCl_3$

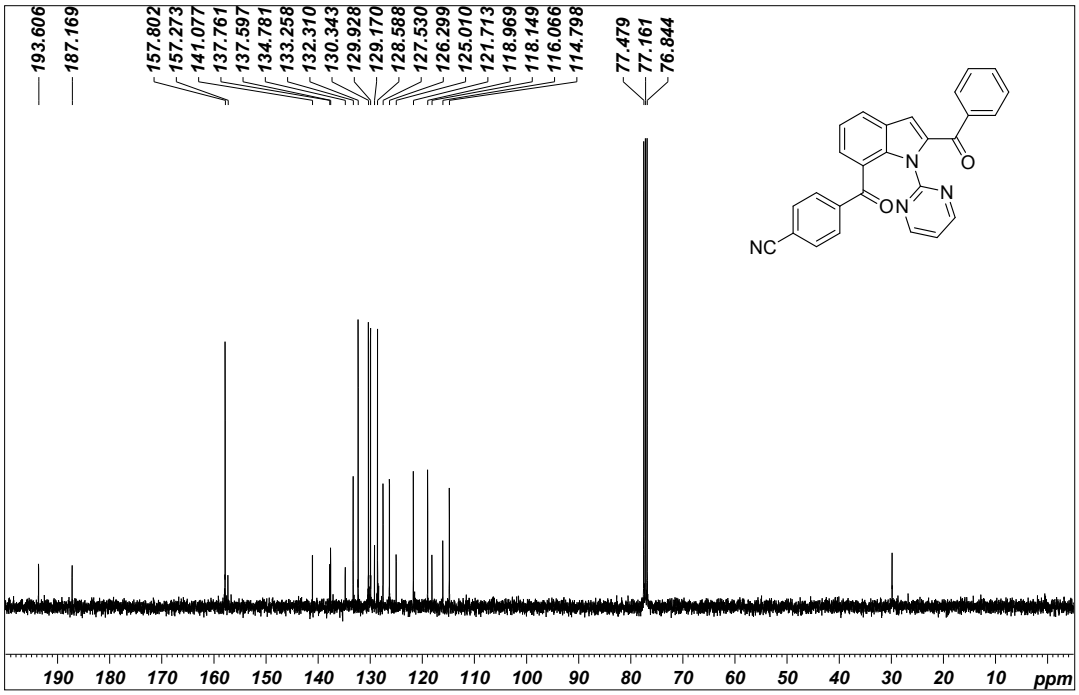

Figure 36 : 100 MHz ^{13}C NMR spectrum of **5a** in $CDCl_3$

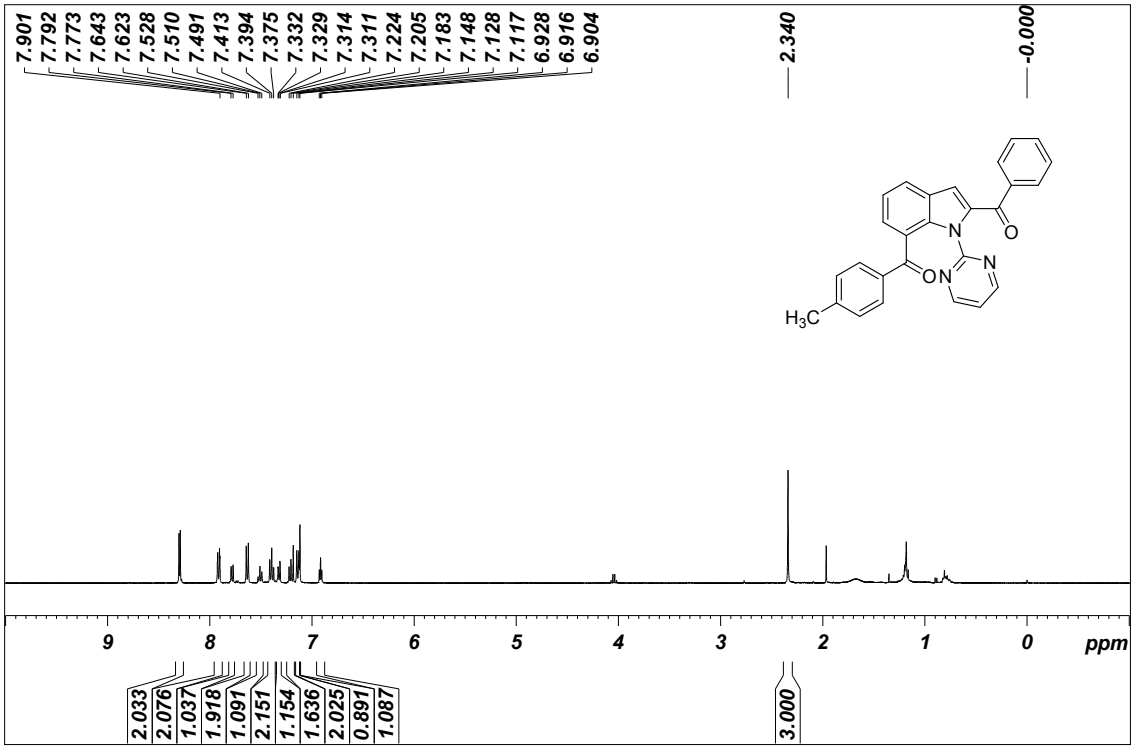

Figure 37 : 400 MHz ^{1}H NMR spectrum of **5b** in $CDCl_3$

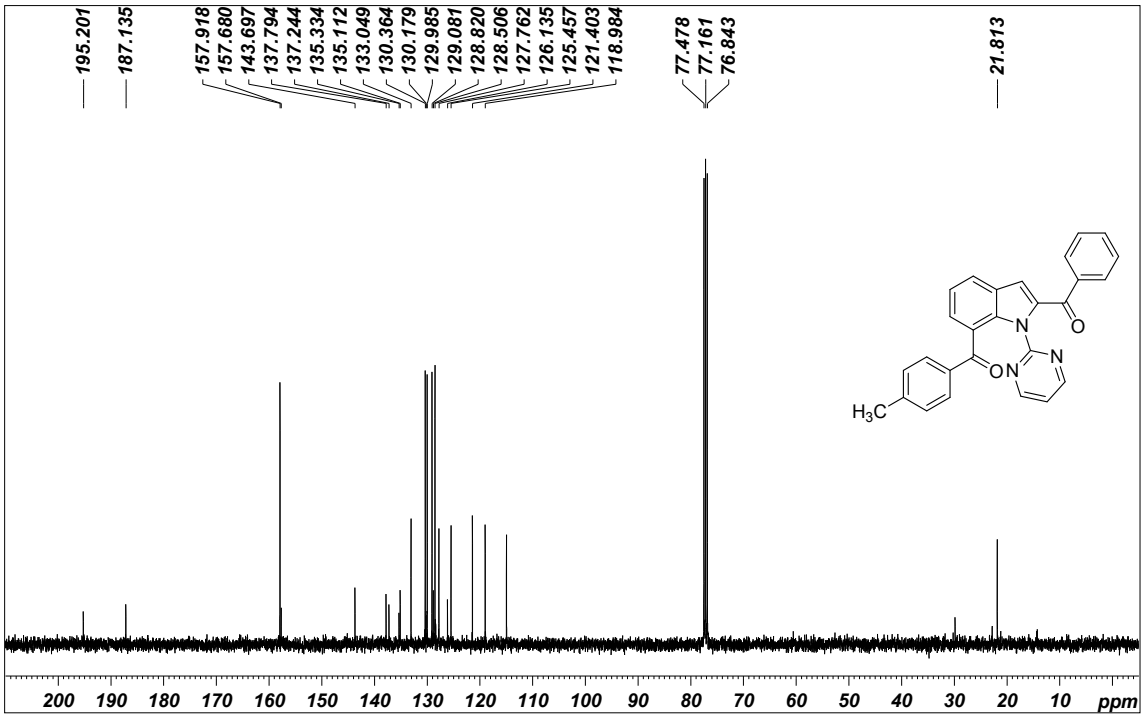

Figure 38 : 400 MHz ^{13}C NMR spectrum of **5b** in $CDCl_3$

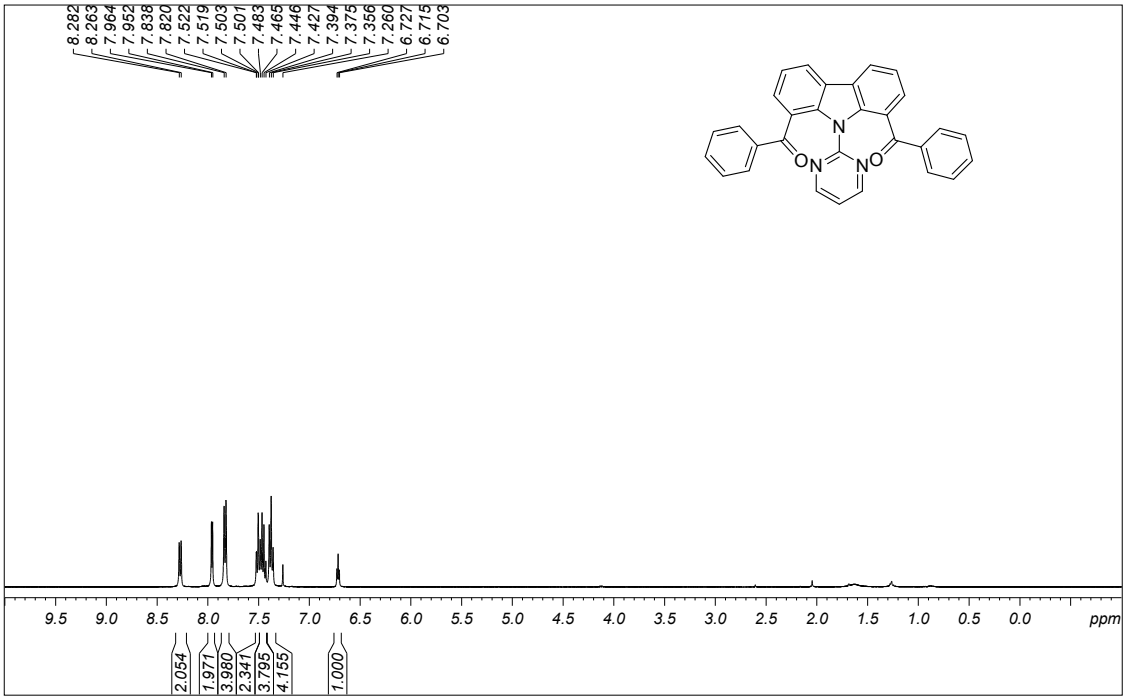

Figure 39 : 400 MHz ^{1}H NMR spectrum of **x** in $CDCl_3$

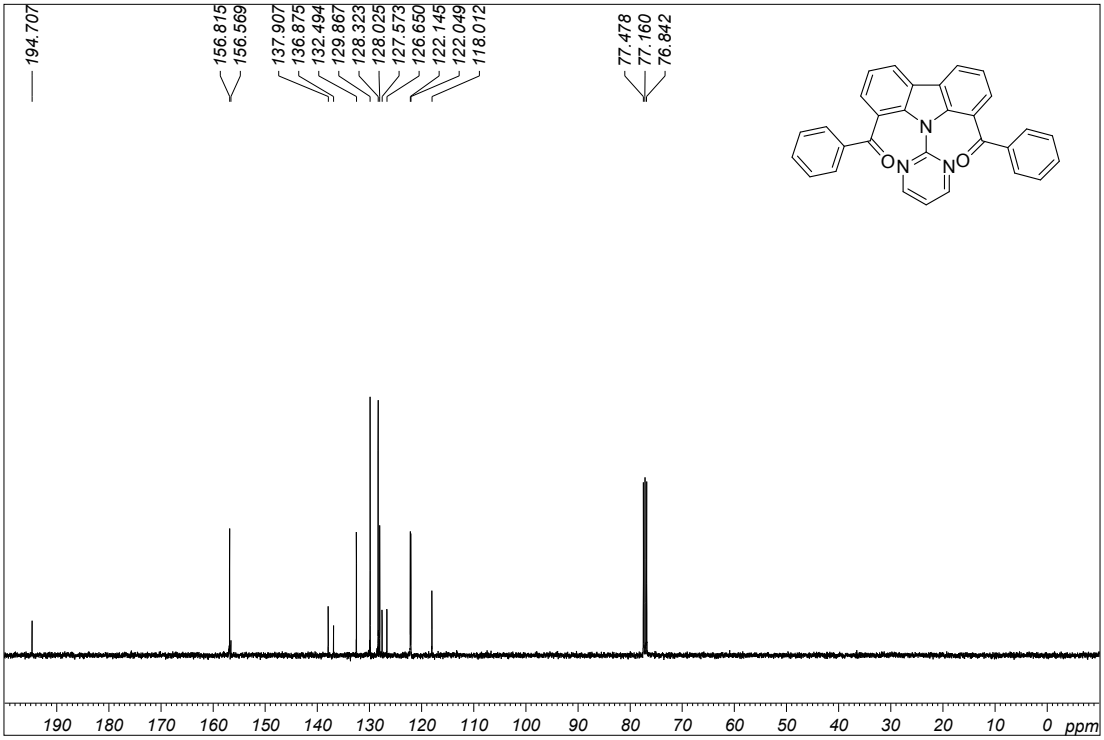

Figure 40 : 100 MHz ^{1}H NMR spectrum of **x** in $CDCl_3$

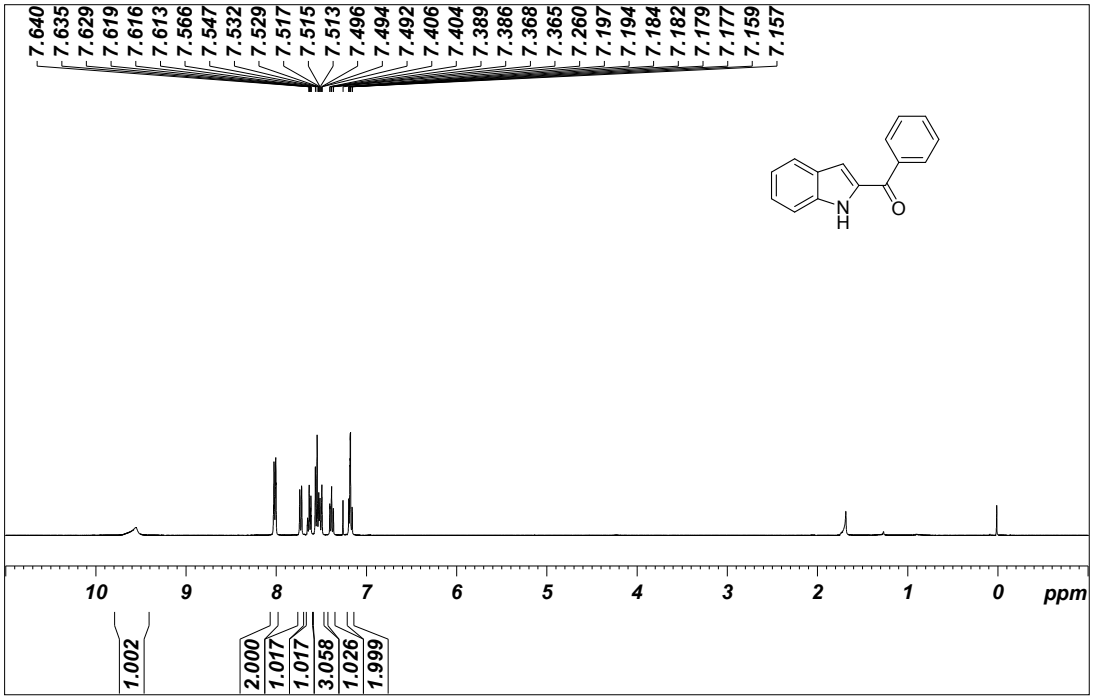

Figure 41 : 400 MHz ^{1}H NMR spectrum of **6a** in $CDCl_3$

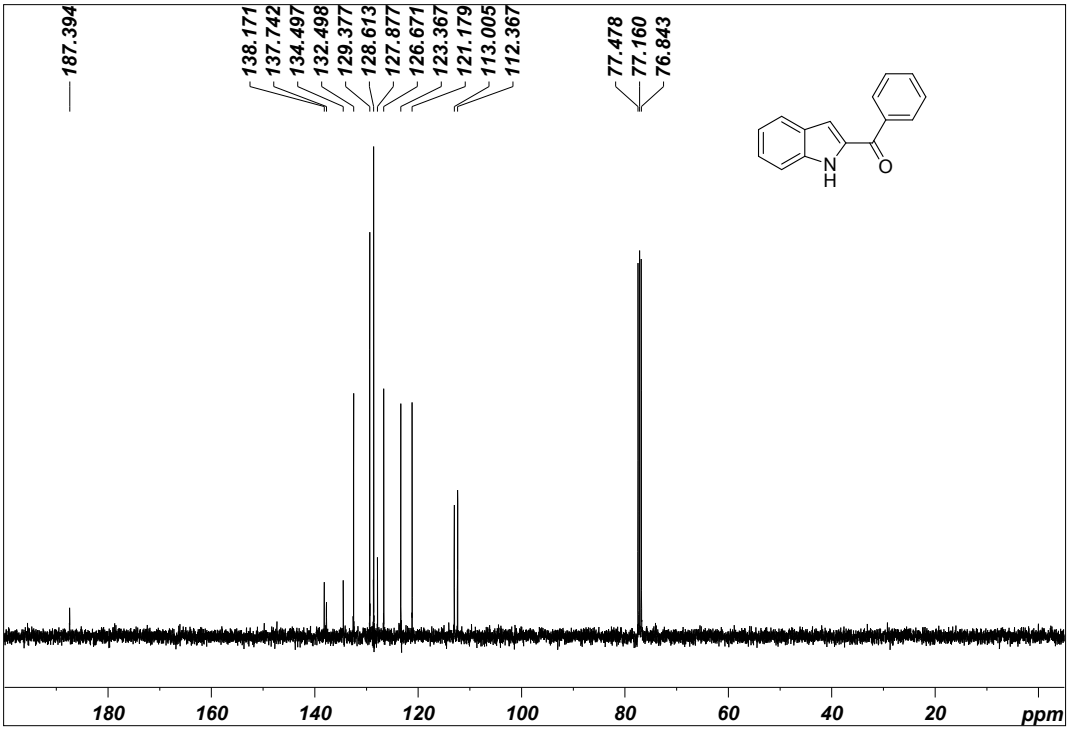

Figure 42 : 100 MHz ^{13}C NMR spectrum of **6a** in $CDCl_3$

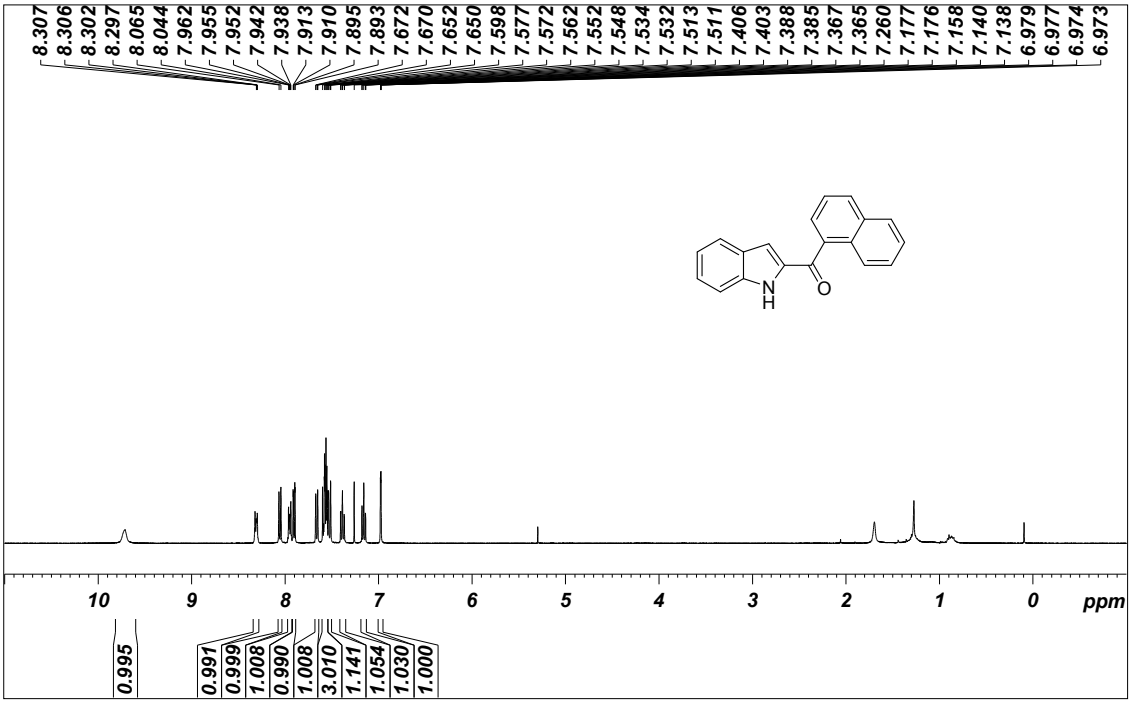

Figure 43 : 400 MHz ^{1}H NMR spectrum of **6b** in $CDCl_3$

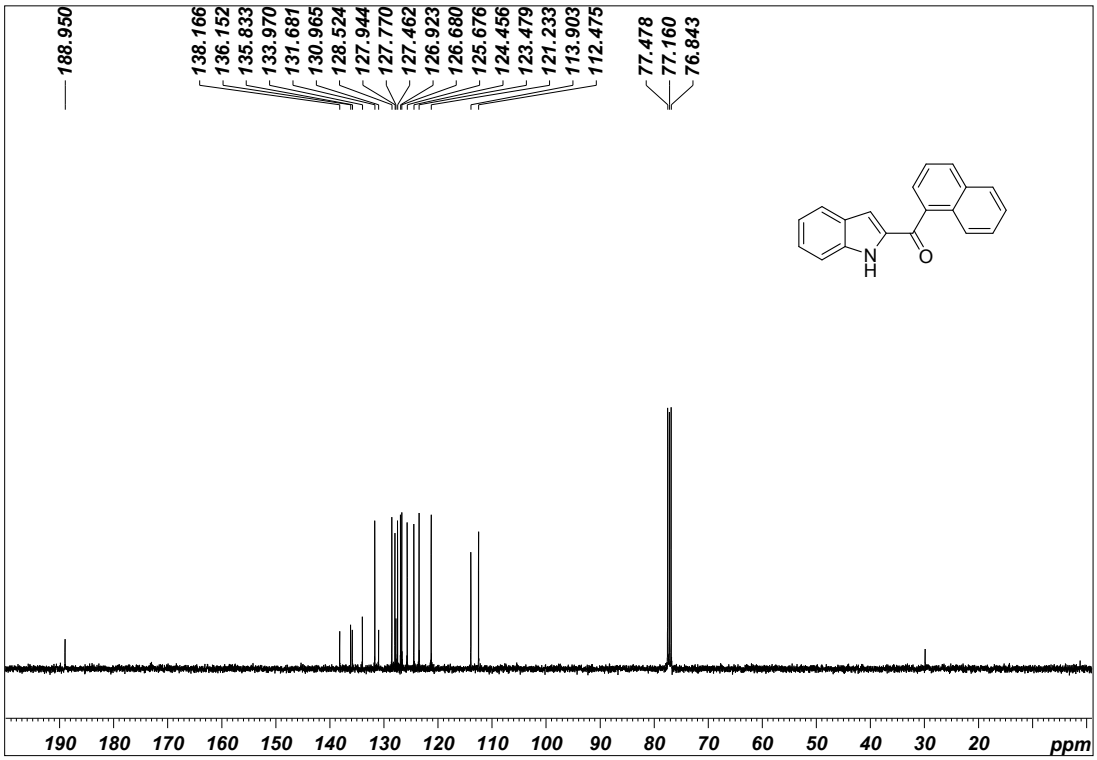

Figure 44 : 100 MHz ^{13}C NMR spectrum of **6b** in $CDCl_3$

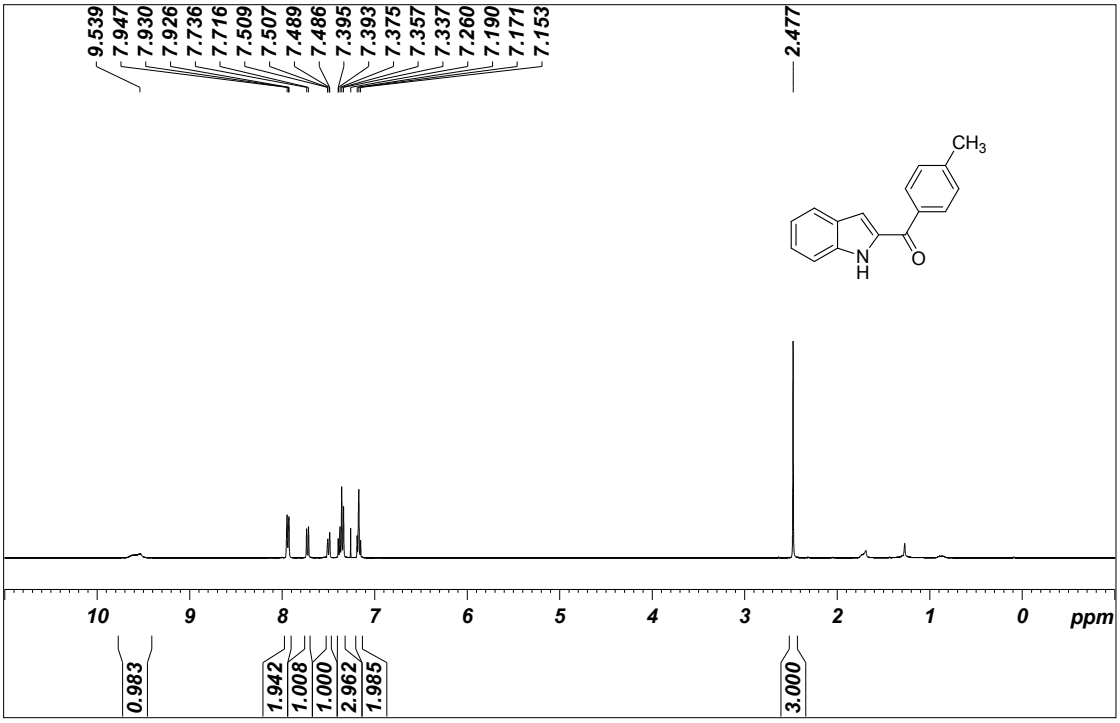

Figure 45 : 400 MHz ^{1}H NMR spectrum of **6c** in $CDCl_3$

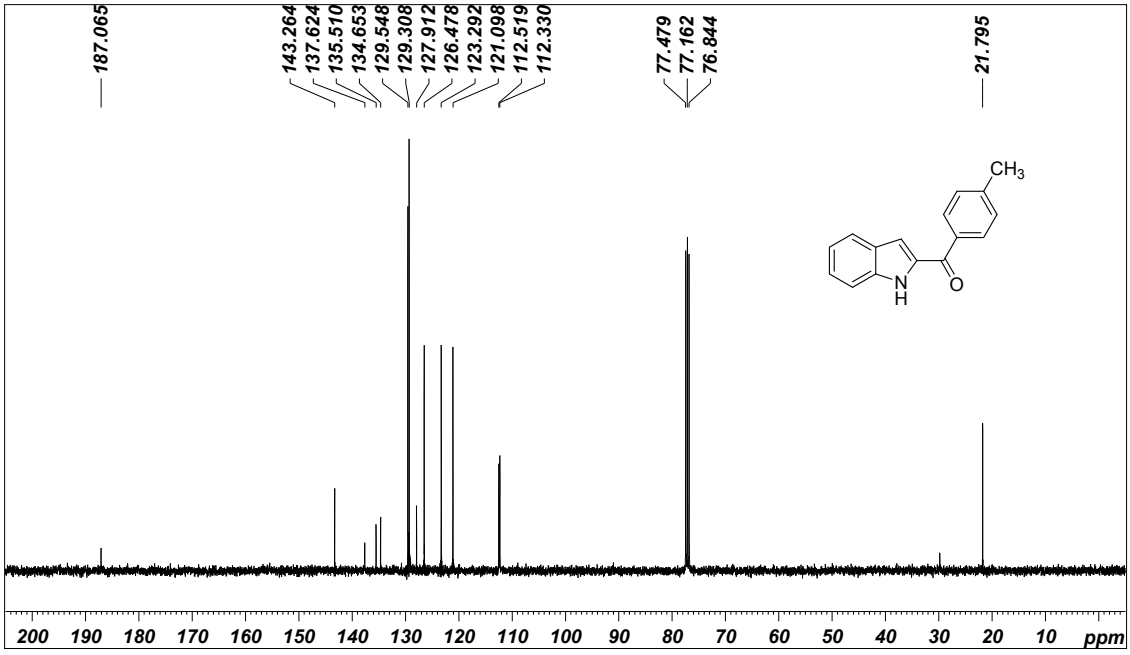

Figure 46 : 100 MHz ^{13}C NMR spectrum of **6c** in $CDCl_3$