Supplementary Information

Synthesis of novel indole substituted heterocyclics

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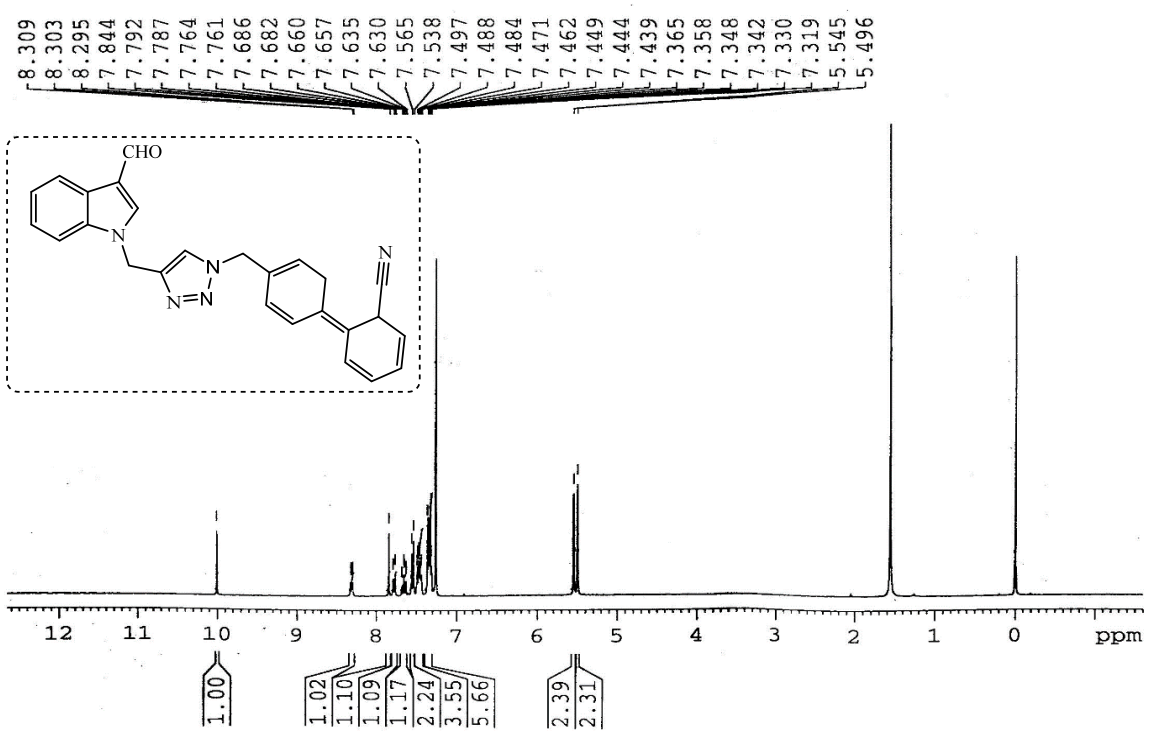

Fig. S1 - ^{1}H NMR spectra of **3a** (300 MHz, $CDCl_3$)

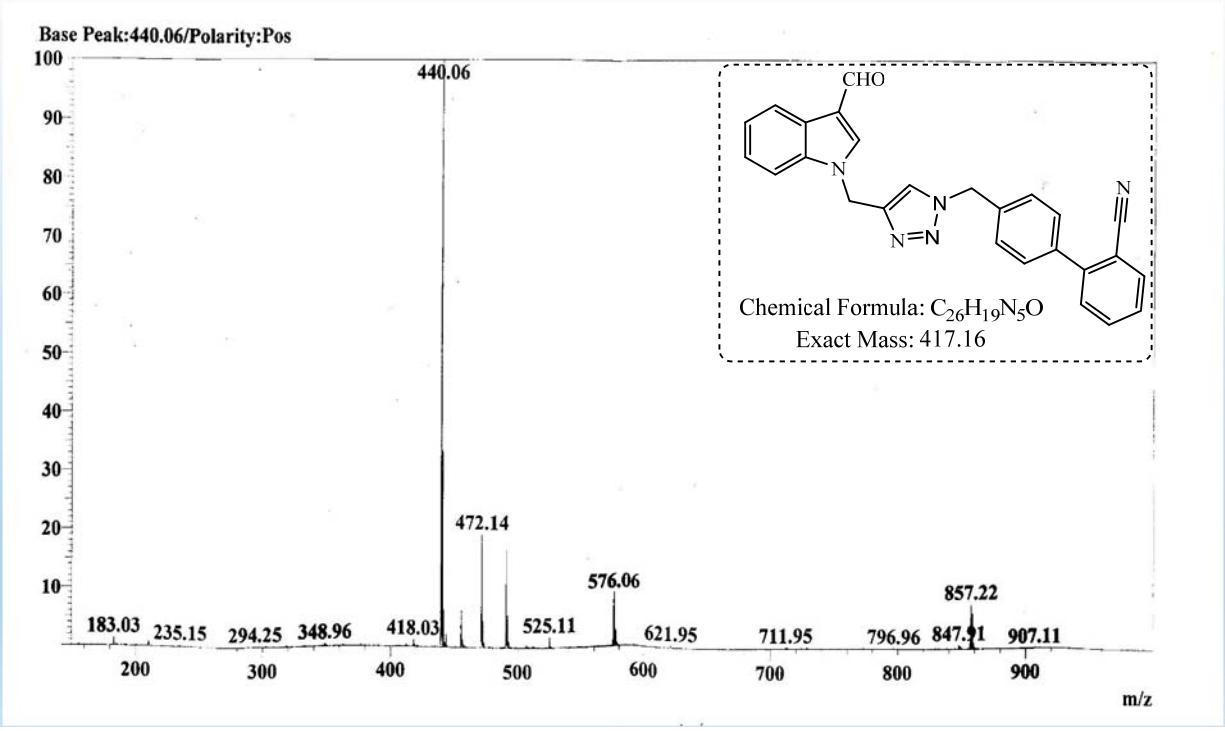

Fig. S2 - Mass spectra of **3a** (ESI-MS, positive)

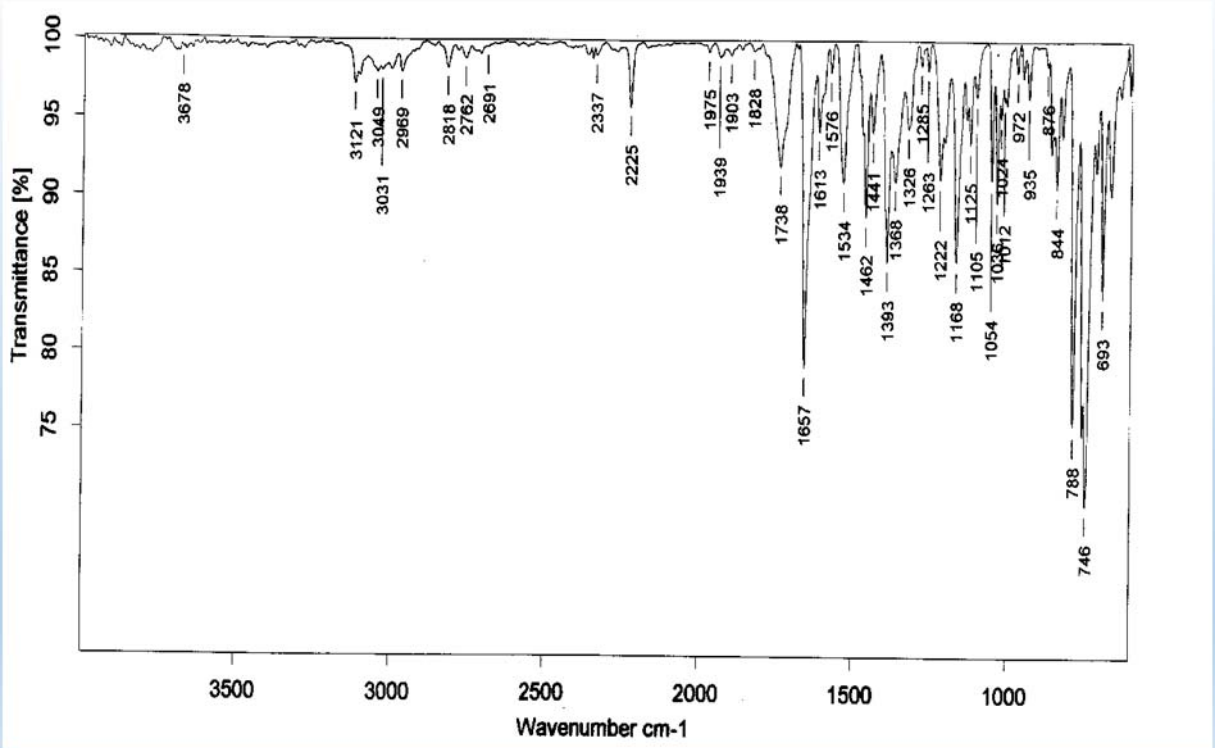

Fig. S3- IR (KBr) spectra of **3a**

Fig. S4 - ^{1}H NMR spectra of **3b** (300 MHz, $CDCl_3$)

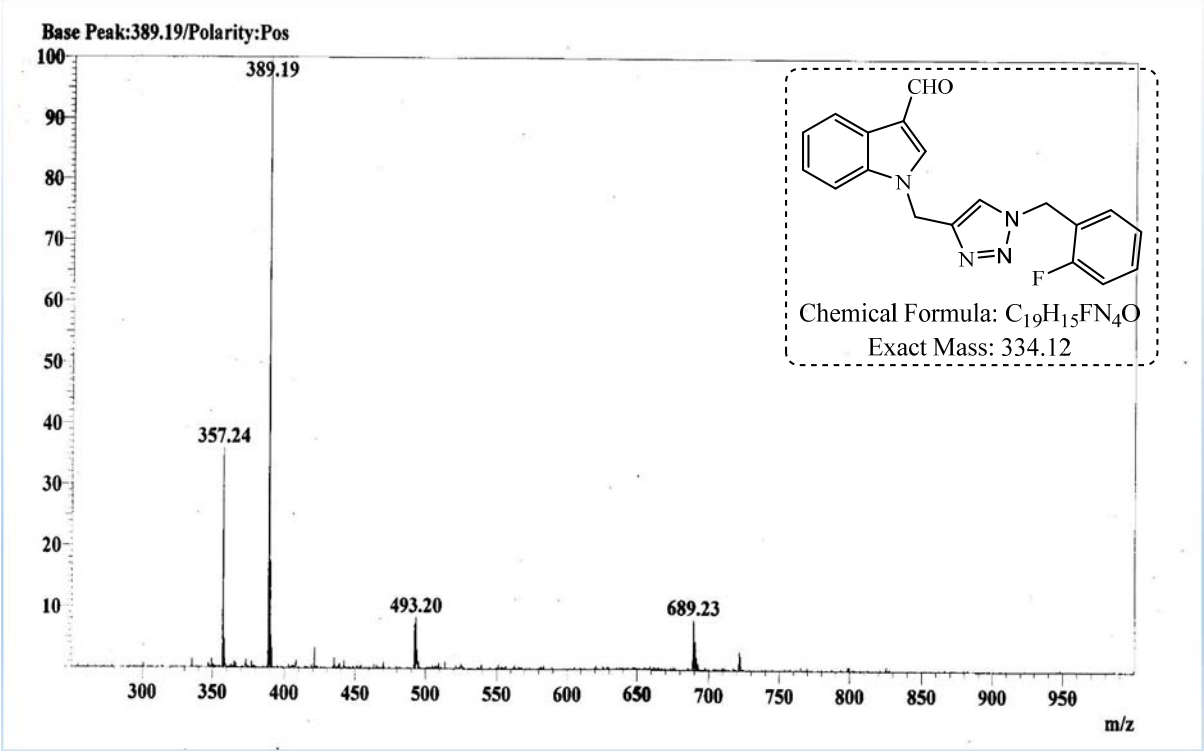

Fig. S5 - Mass spectra of **3b** (ESI-MS, positive)

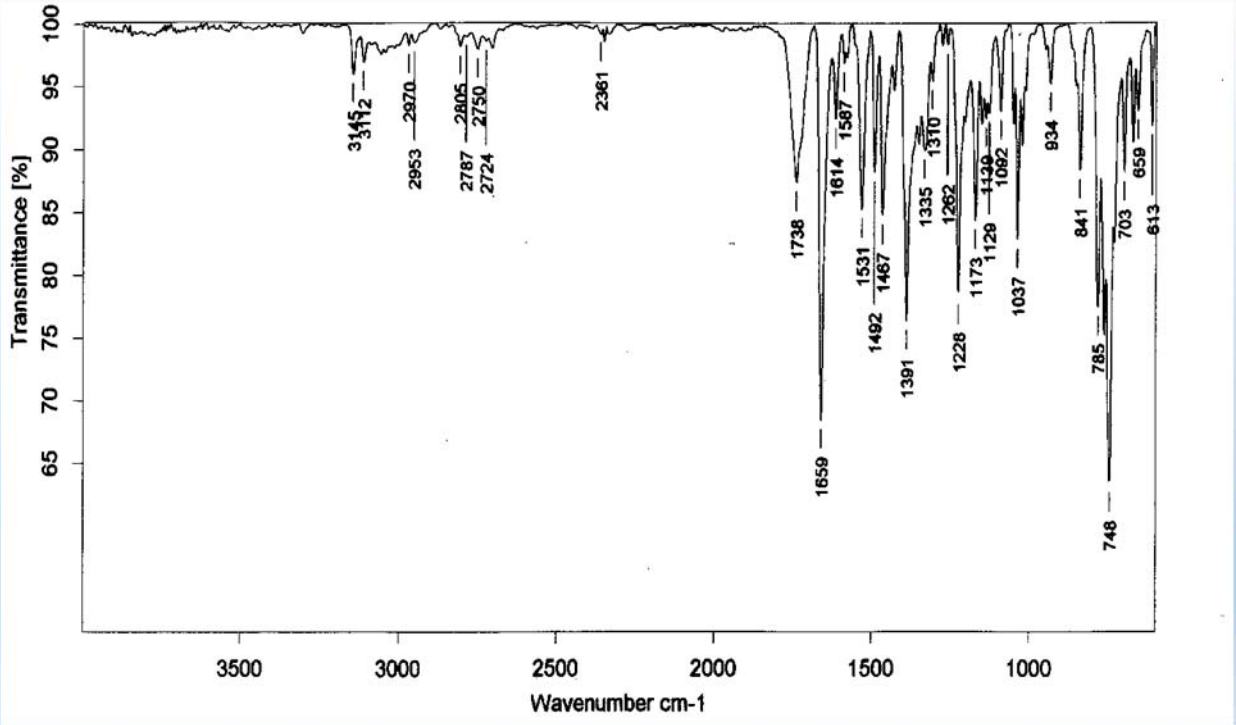

Fig. S6 - IR (KBr) spectra of **3b**

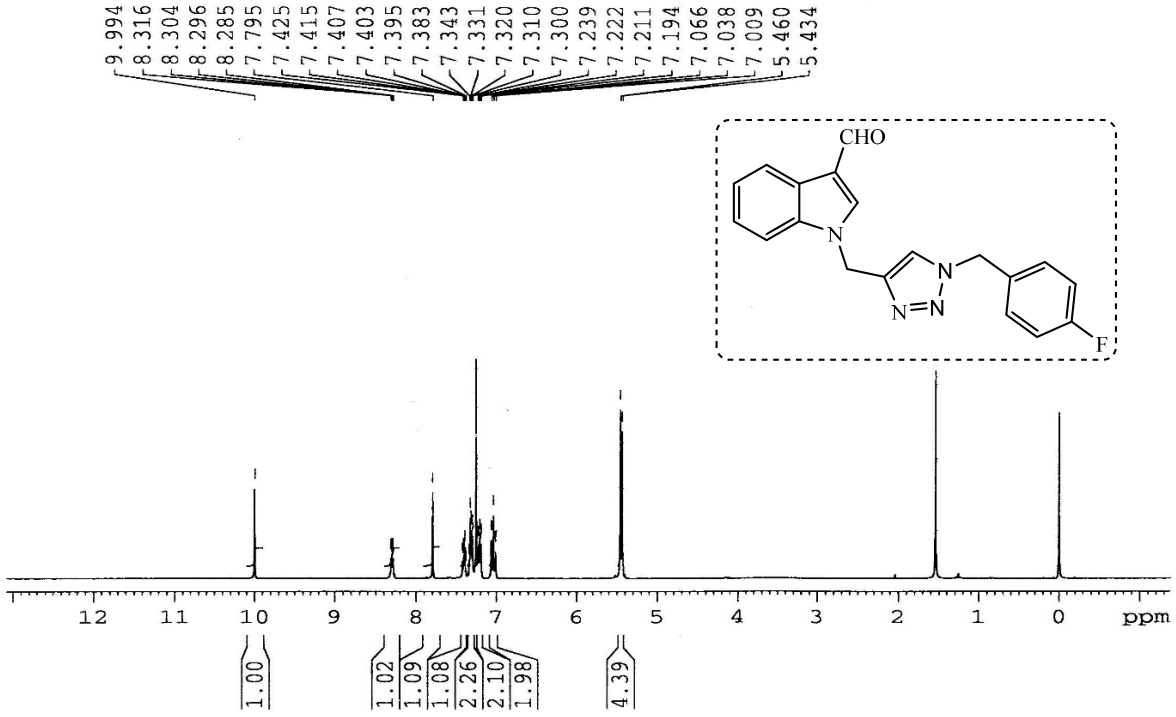

Fig. S7 - ^{1}H NMR spectra of **3c** (300 MHz, $CDCl_3$)

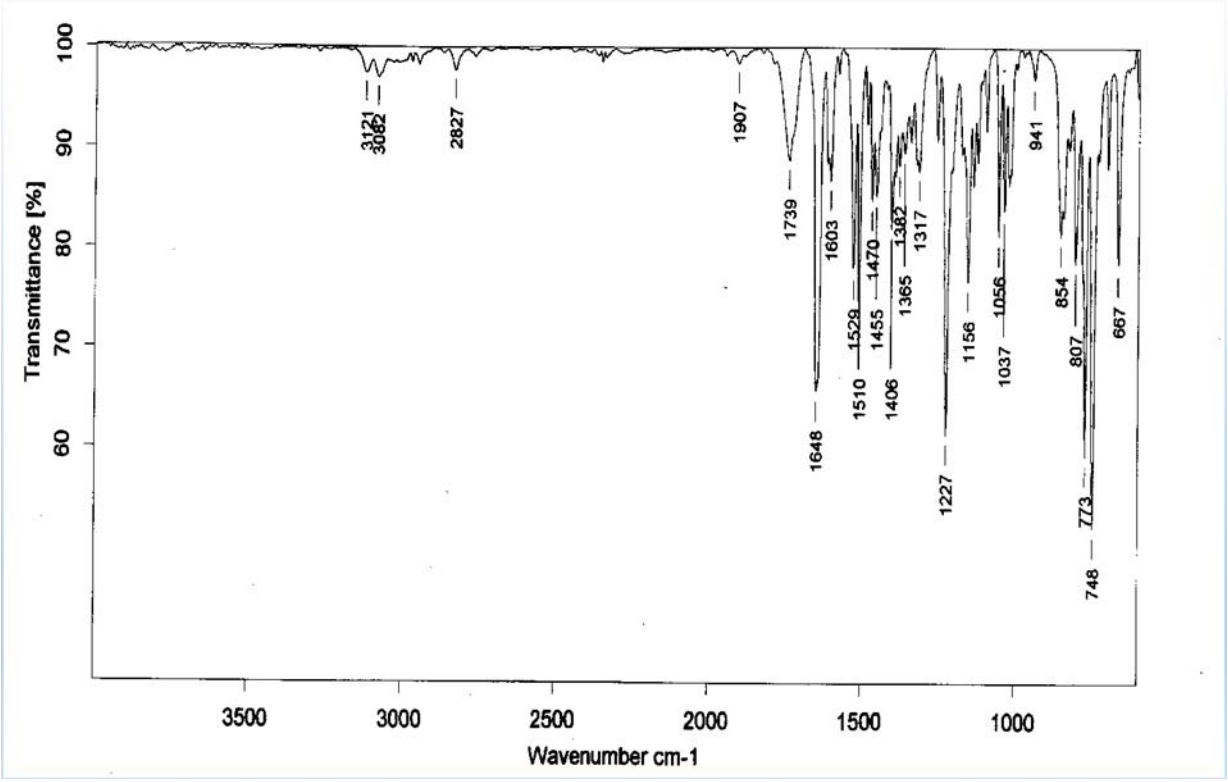

Fig. S8 - IR (KBr) spectra of **3c**

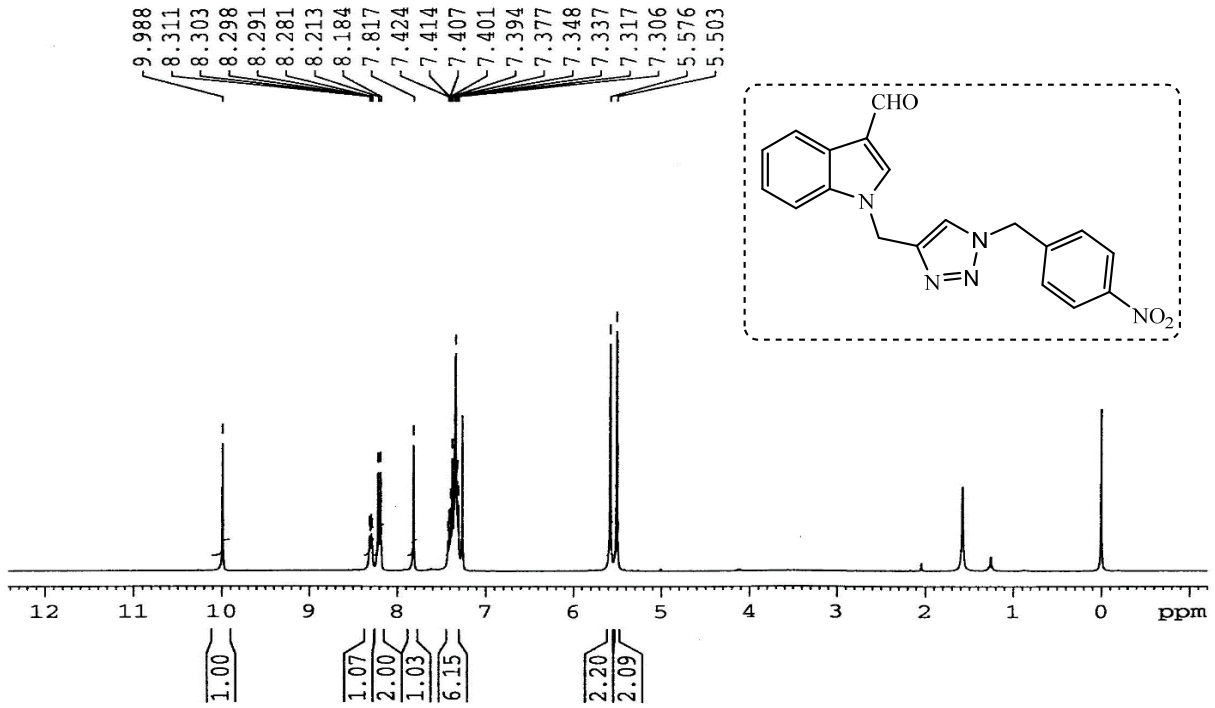

Fig. S9 - ^{1}H NMR spectra of **3d** (300 MHz, $CDCl_3$)

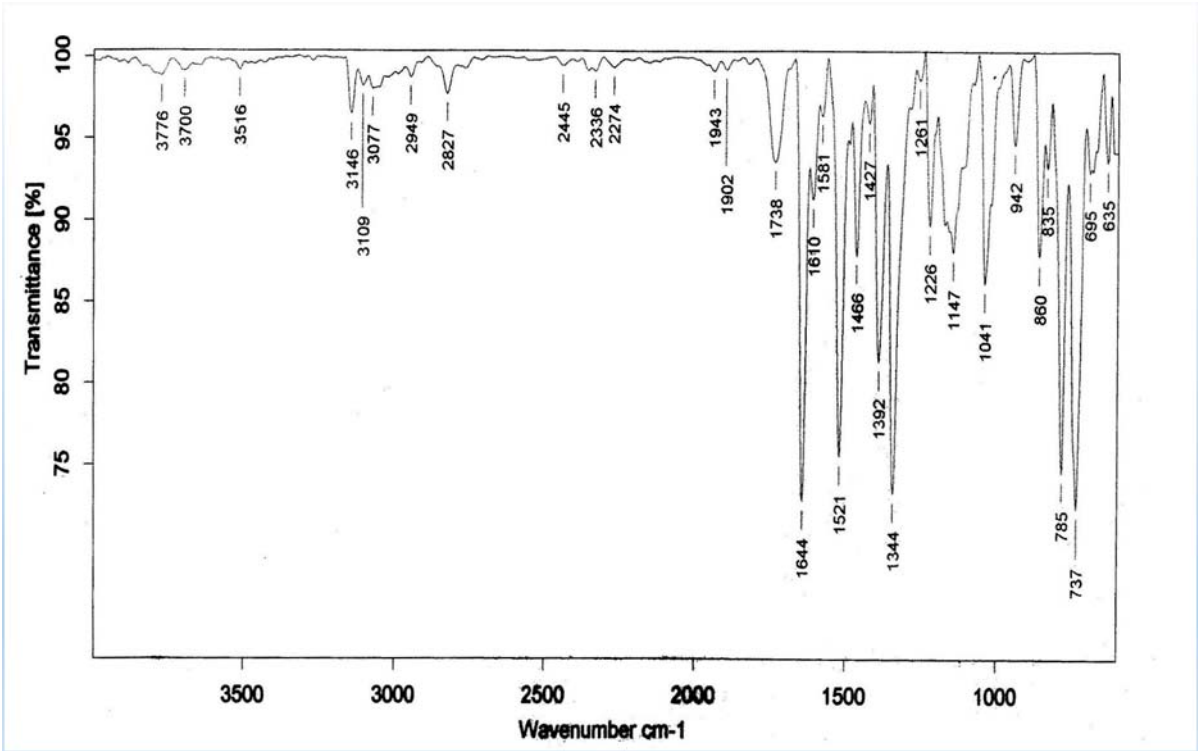

Fig. S10 - IR (KBr) spectra of **3d**

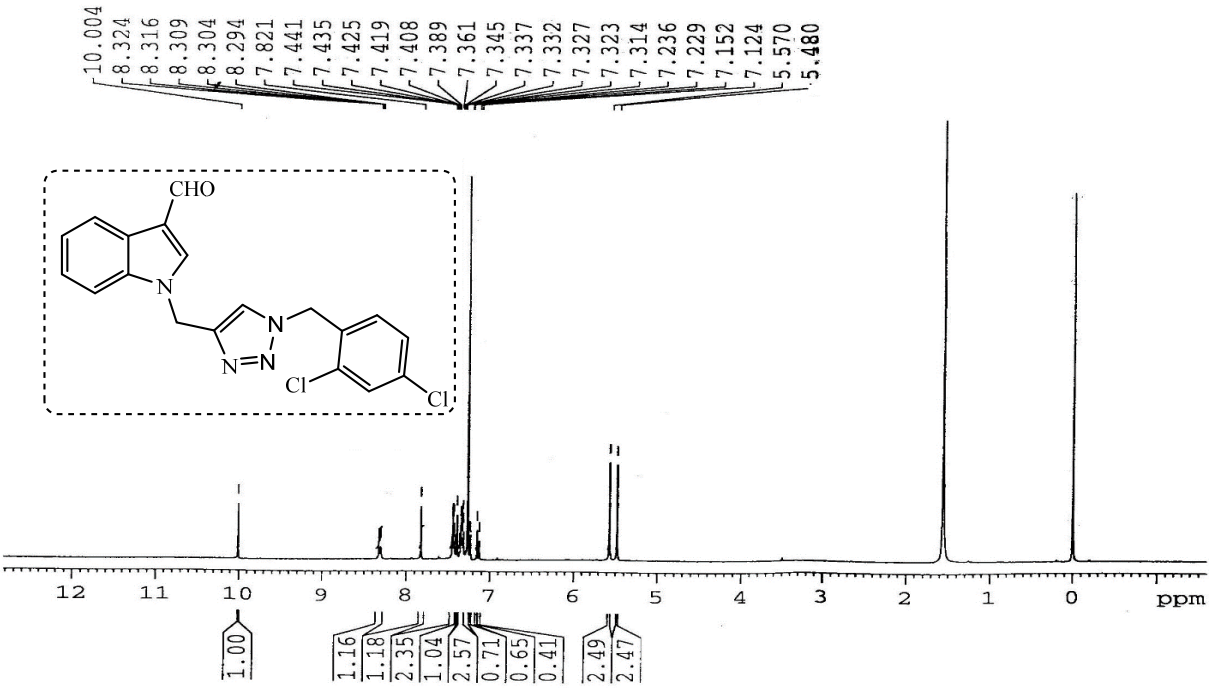

Fig. S11 - ^{1}H NMR spectra of **3e** (300 MHz, $CDCl_3$)

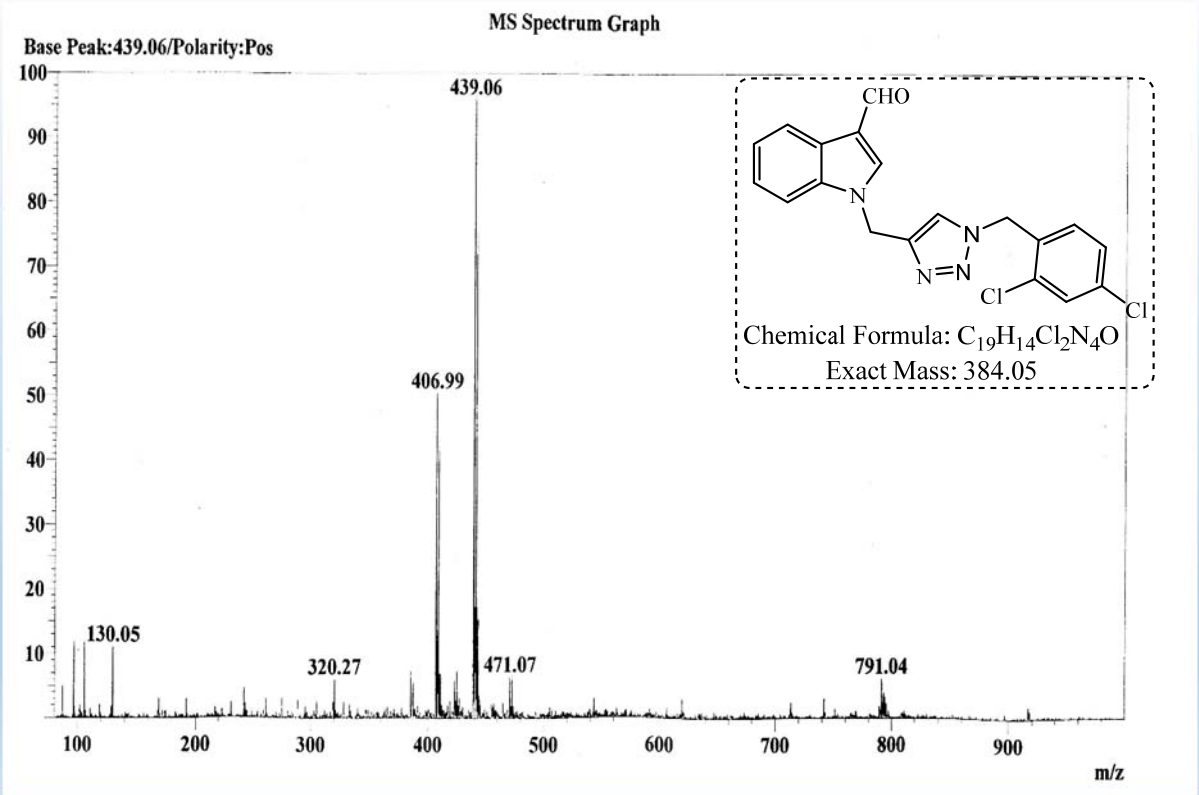

Fig. S12 - Mass spectra of **3e** (ESI-MS, positive)

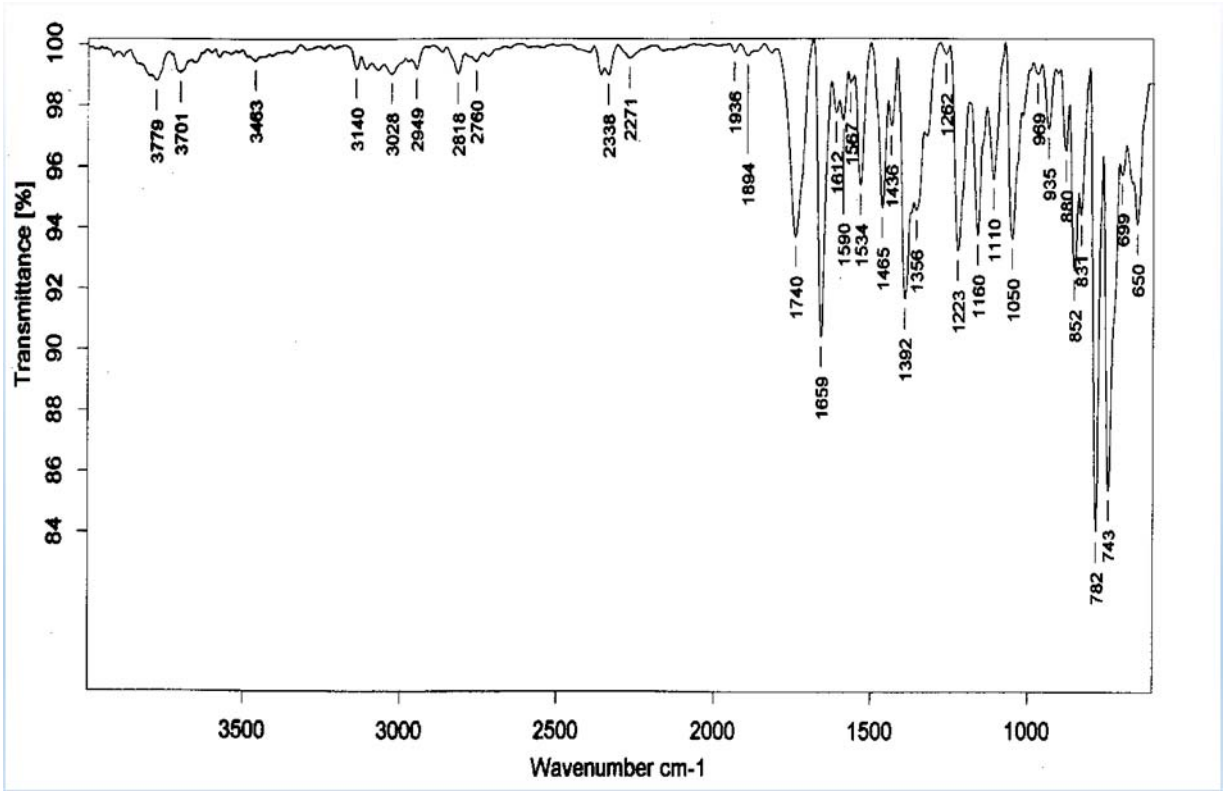

Fig. S13 - IR (KBr) spectra of **3e**

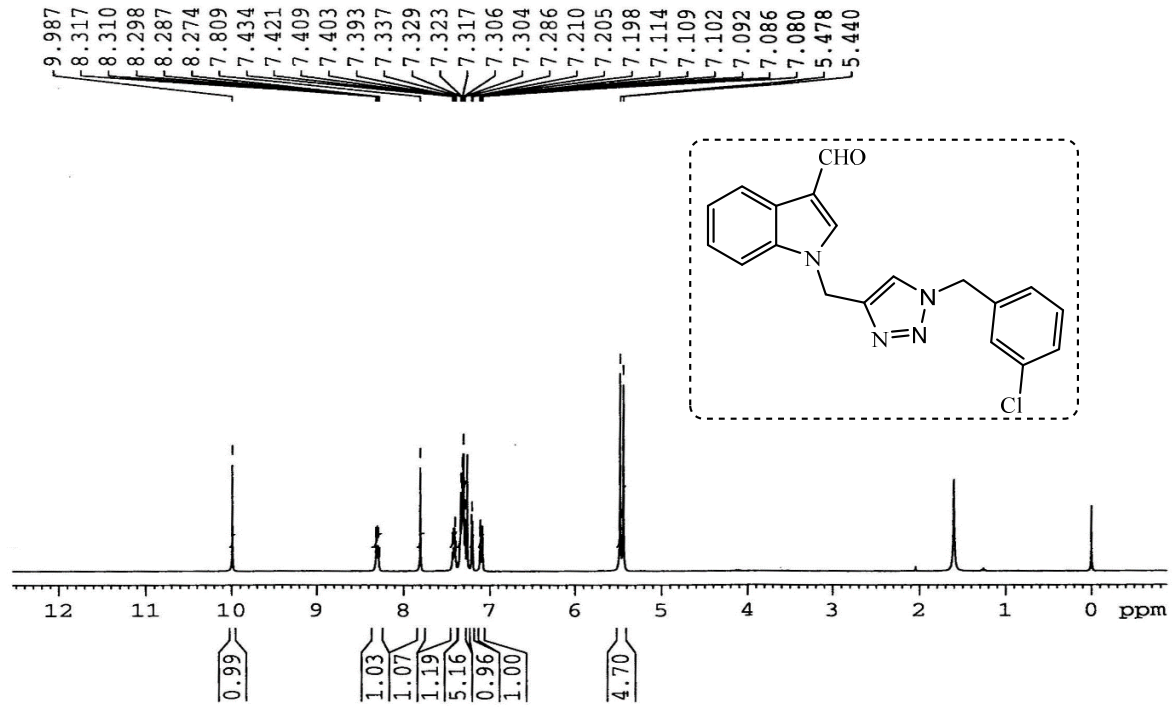

Fig. S14 - ^{1}H NMR spectra of **3f** (300 MHz, $CDCl_3$)

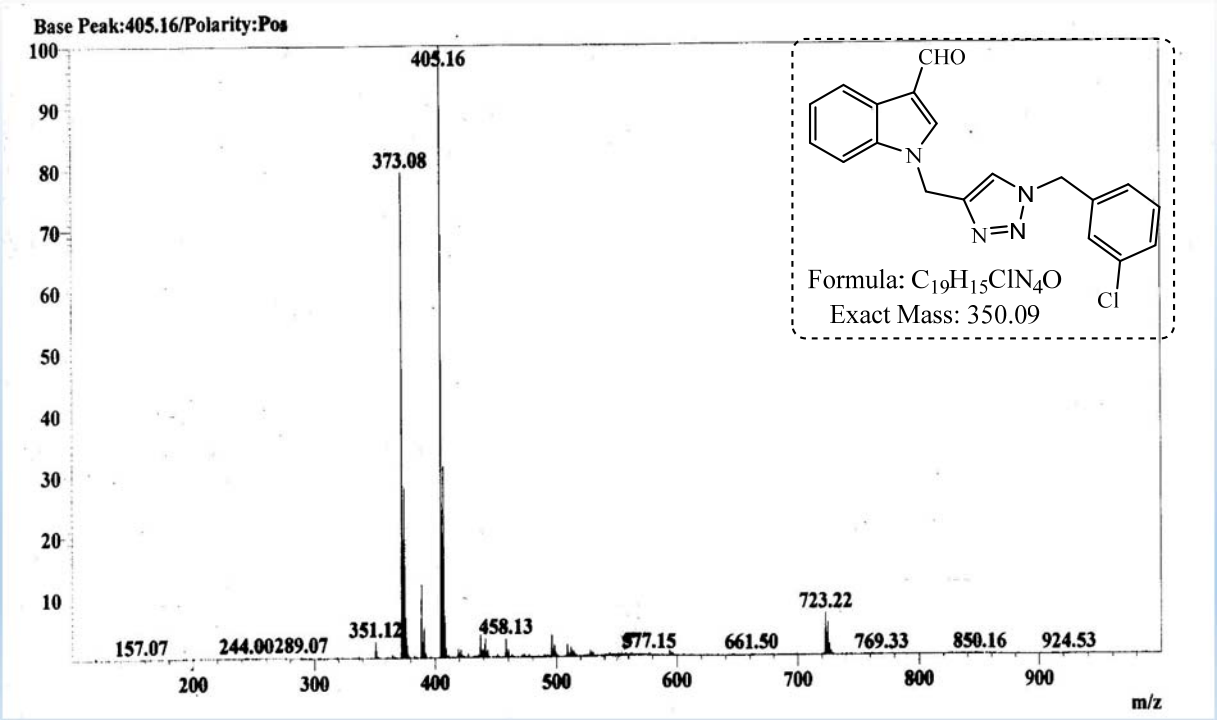

Fig. S15 - Mass spectra of **3f** (ESI-MS, positive)

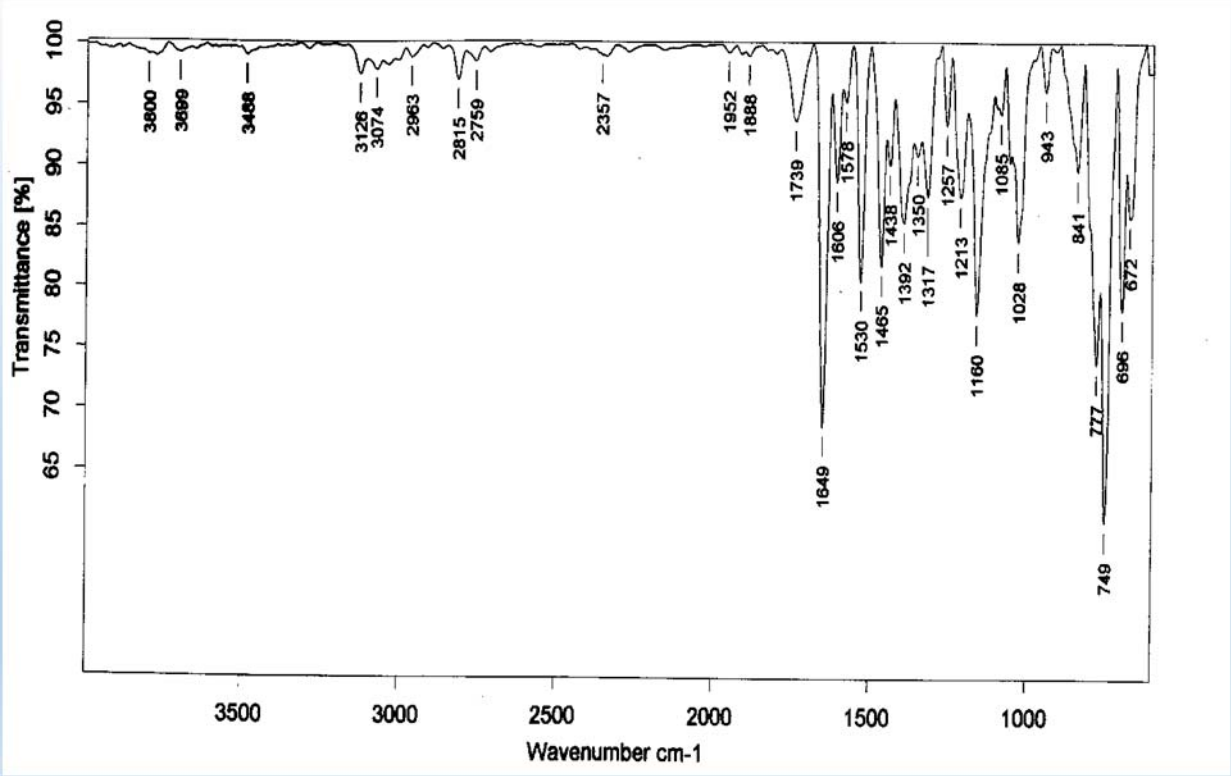

Fig. S16 - IR (KBr) spectra of **3f**

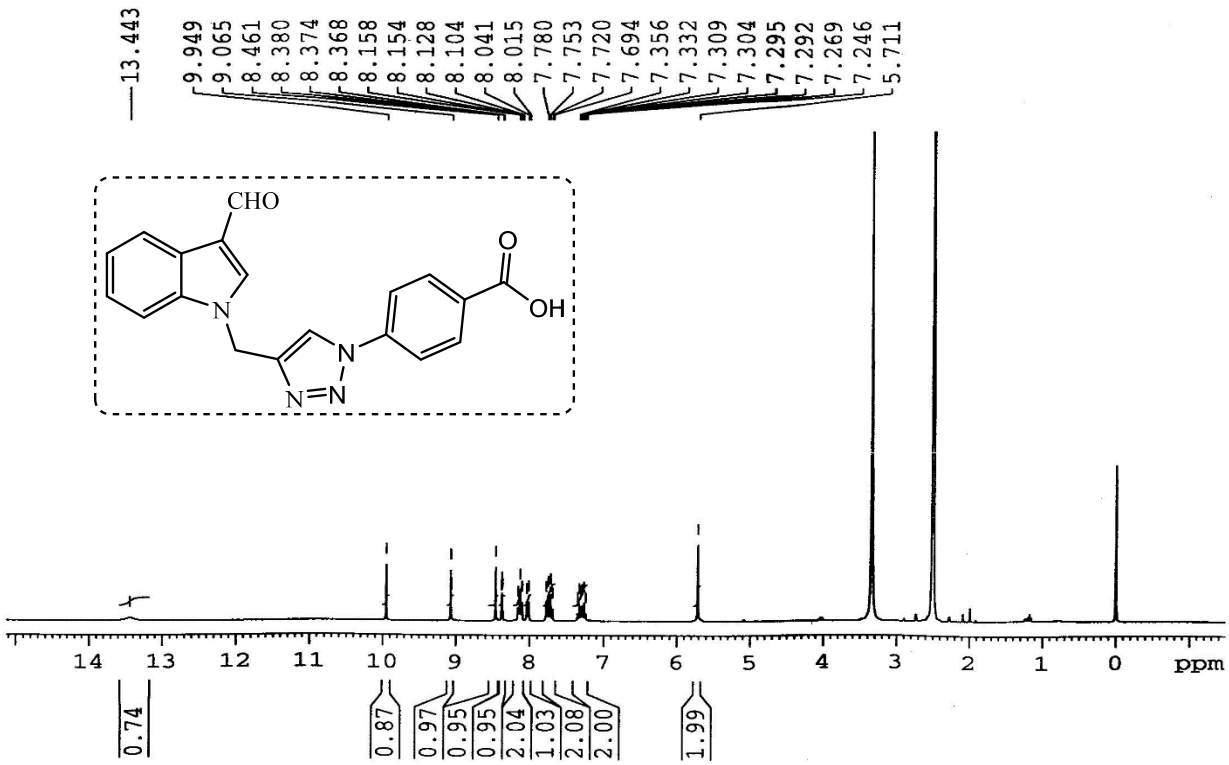

Fig. S17 - ^{1}H NMR spectra of **3g** (300 MHz, $CDCl_3$)

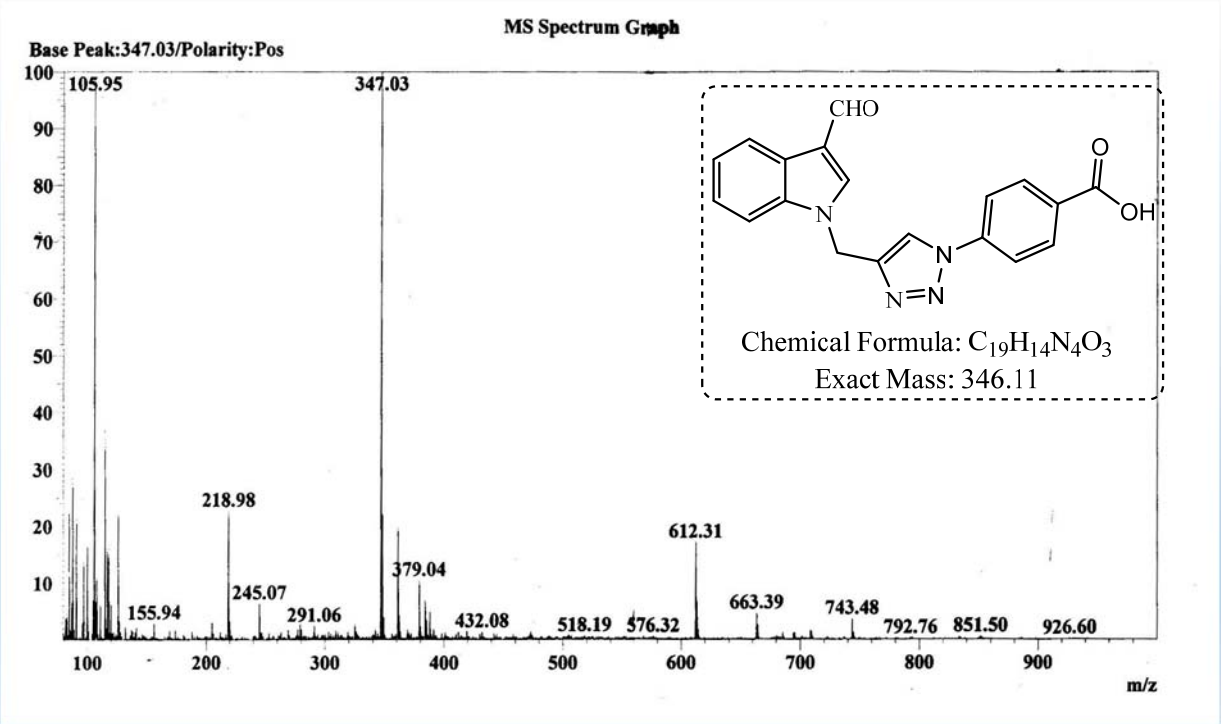

Fig. S18 - Mass spectra of **3g** (ESI-MS, positive)

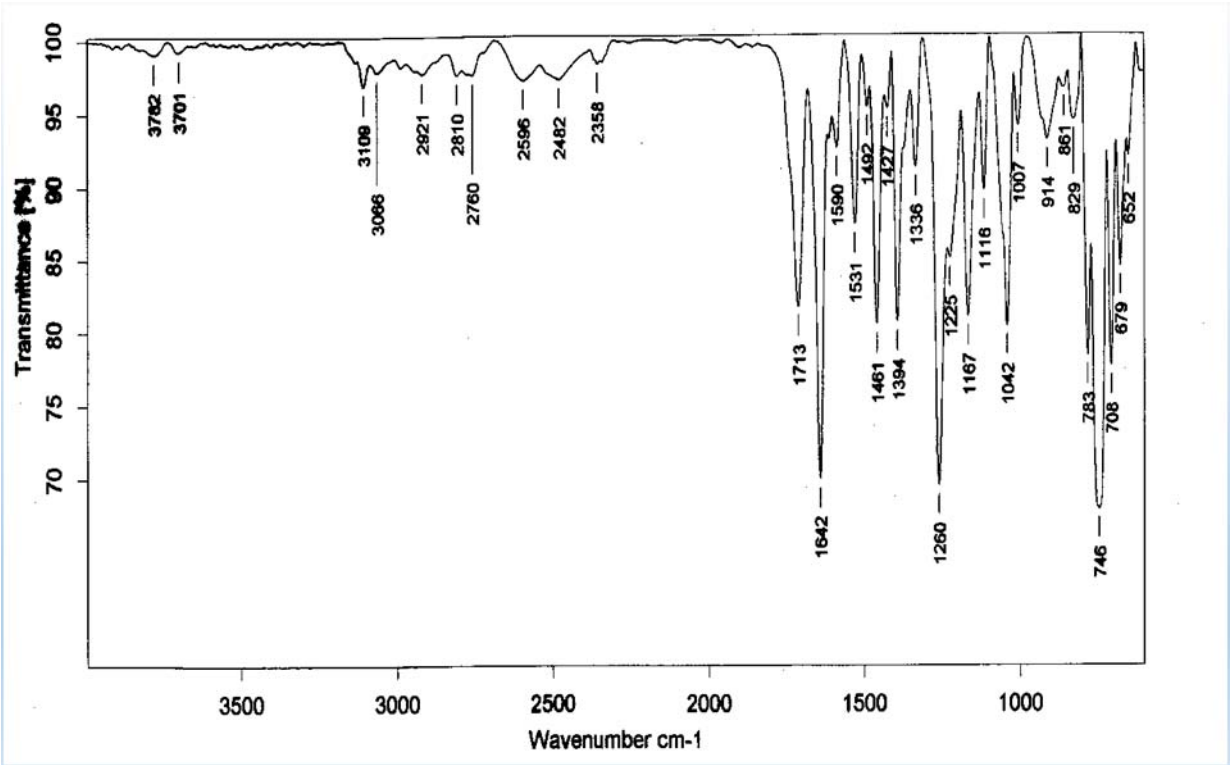

Fig. S19 - IR (KBr) spectra of **3g**

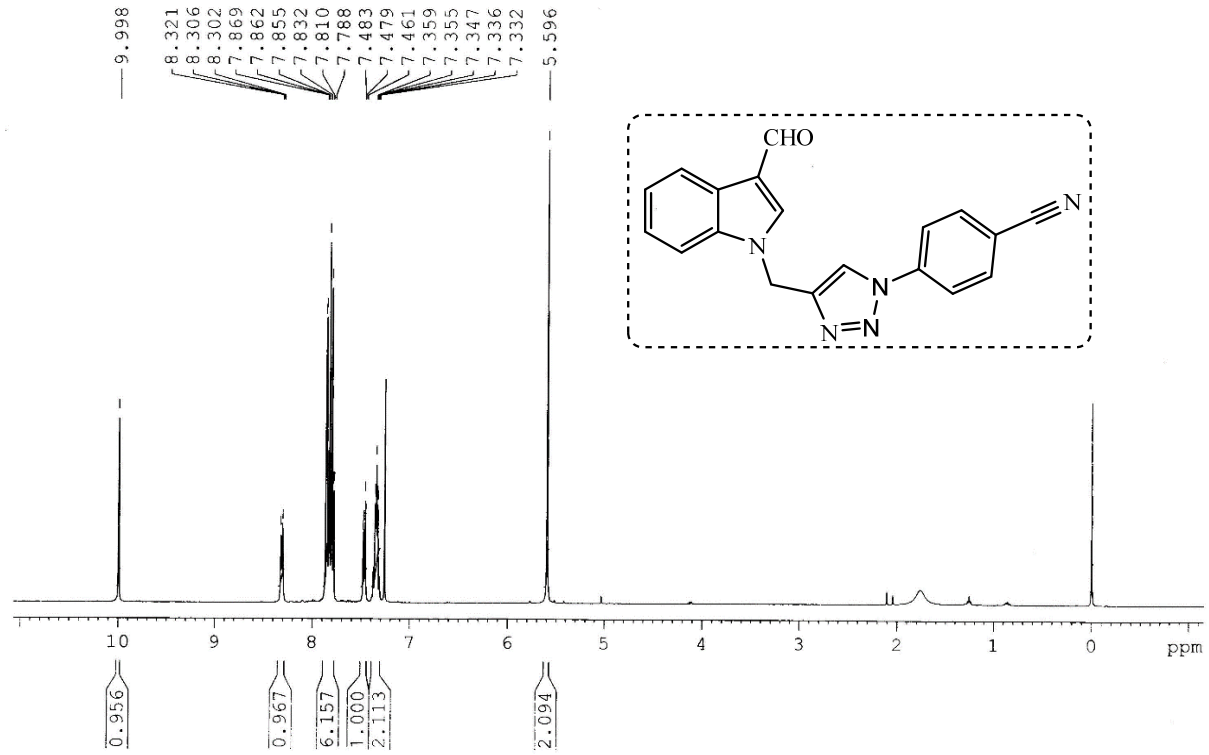

Fig. S20 - ^{1}H NMR spectra of **3h** (300 MHz, $CDCl_3$)

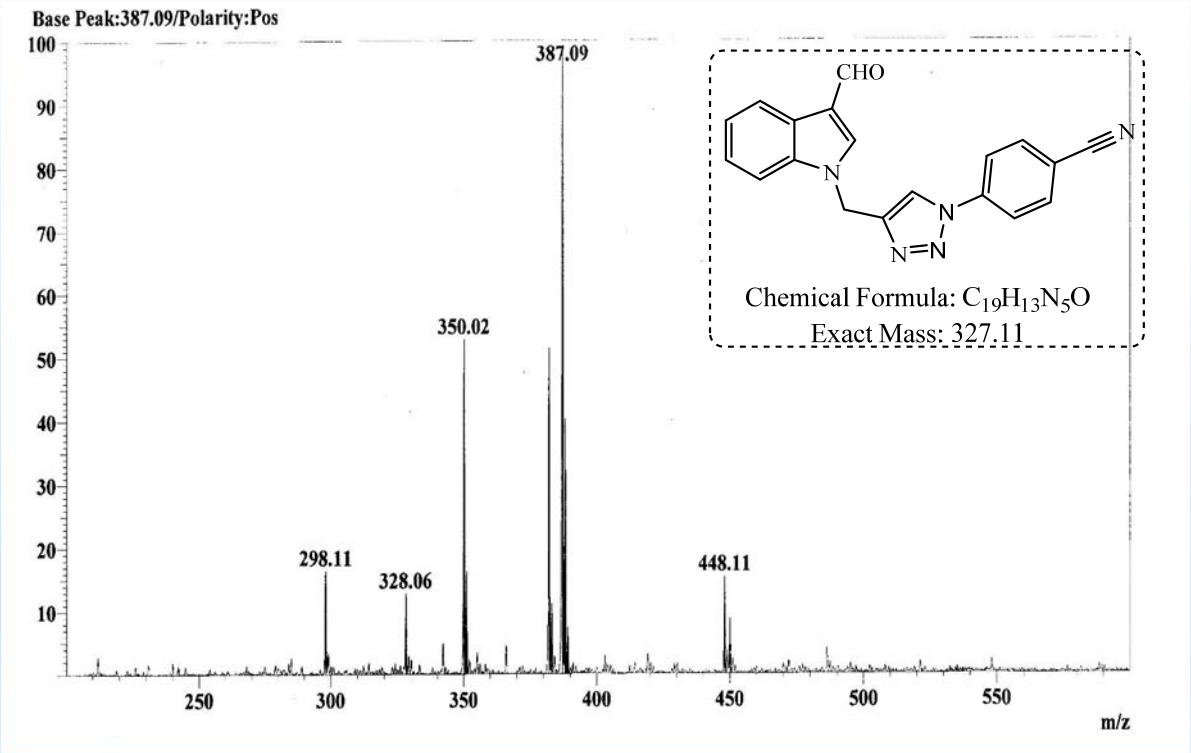

Fig. S21 - Mass spectra of **3h** (ESI-MS, positive)

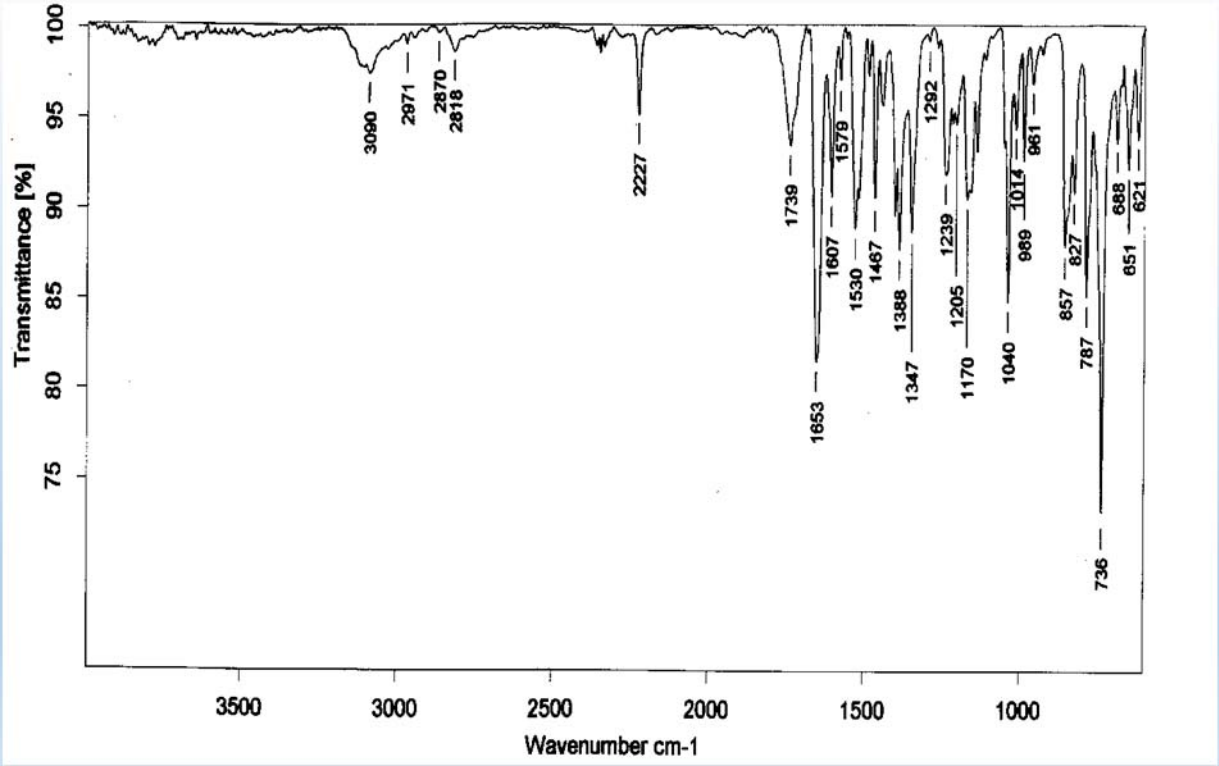

Fig. S22- IR (KBr) spectra of **3h**

Fig. S23 - ^{1}H NMR spectra of **3i** (300 MHz, $CDCl_3$)

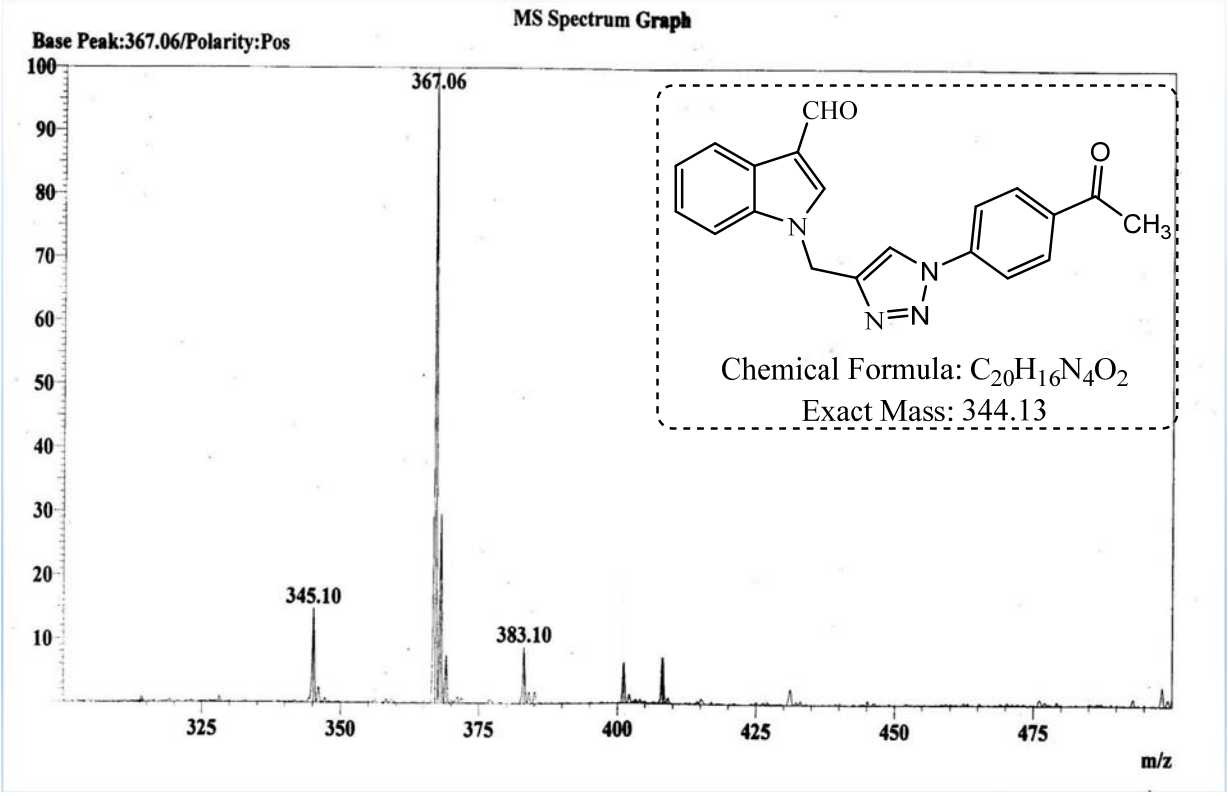

Fig. S24 - Mass spectra of **3i** (ESI-MS, positive)

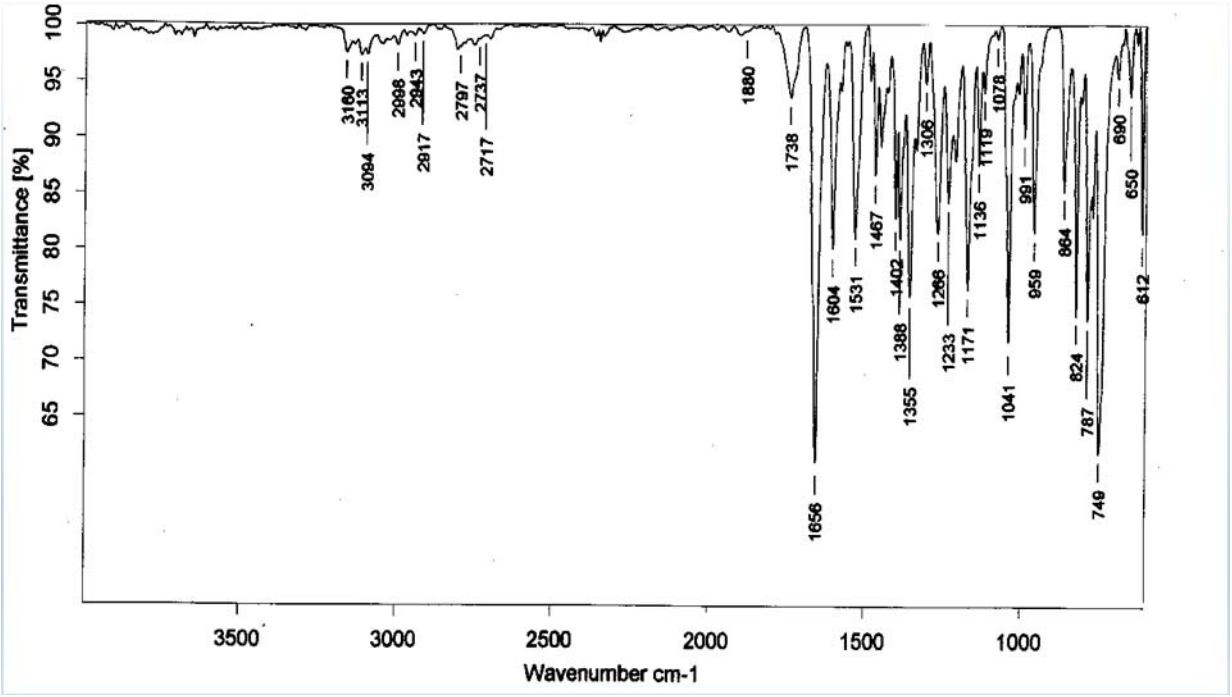

Fig. S25 - IR (KBr) spectra of **3i**

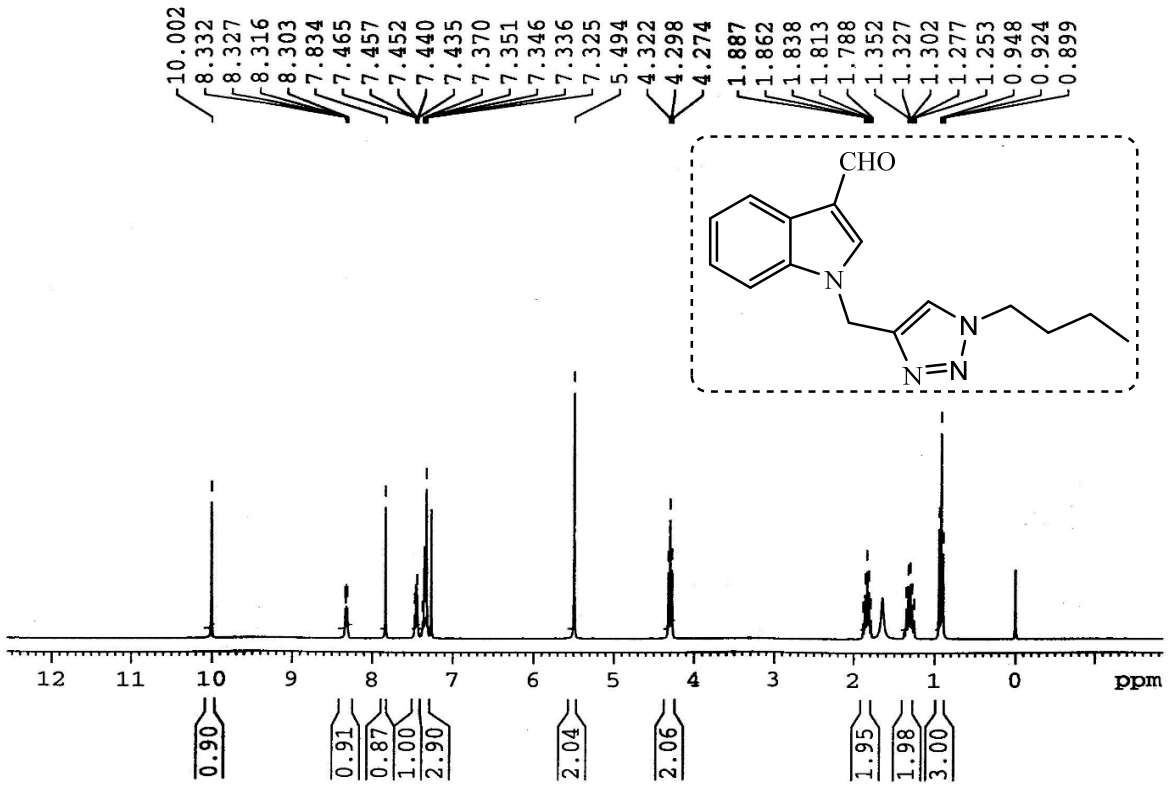

Fig. S26 - ^{1}H NMR spectra of **3j** (300 MHz, $CDCl_3$)

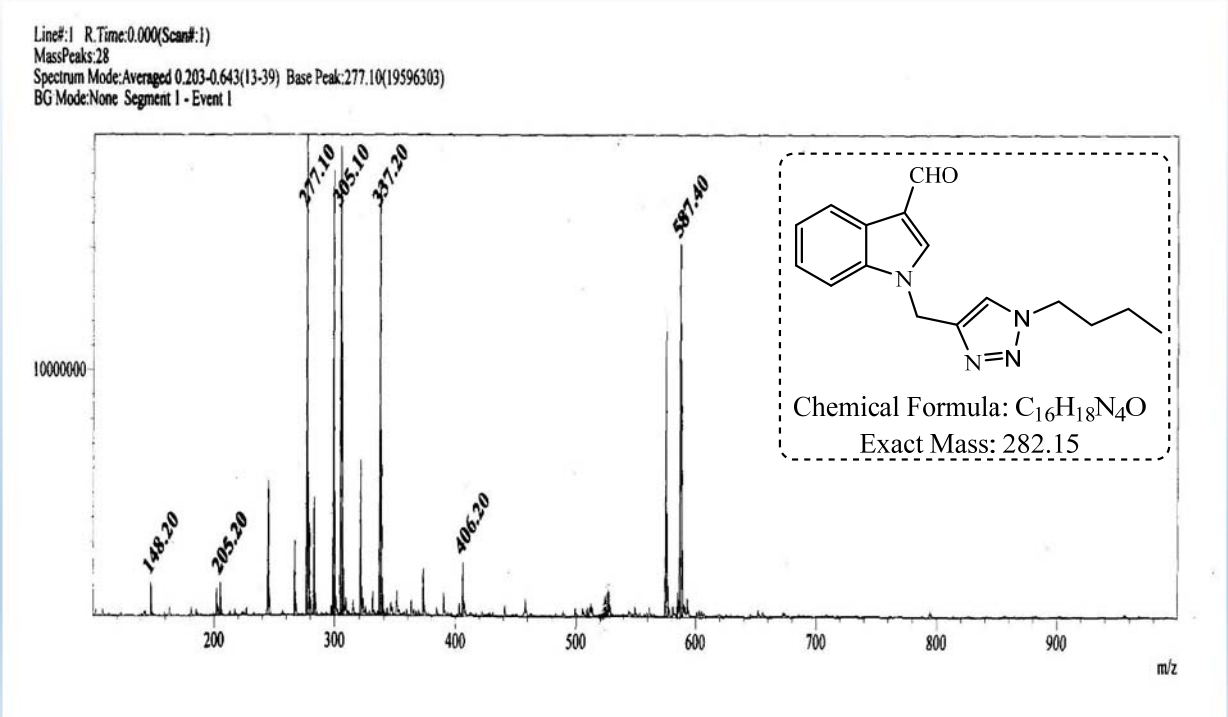

Fig. S27 - Mass spectra of **3j** (ESI-MS, positive)

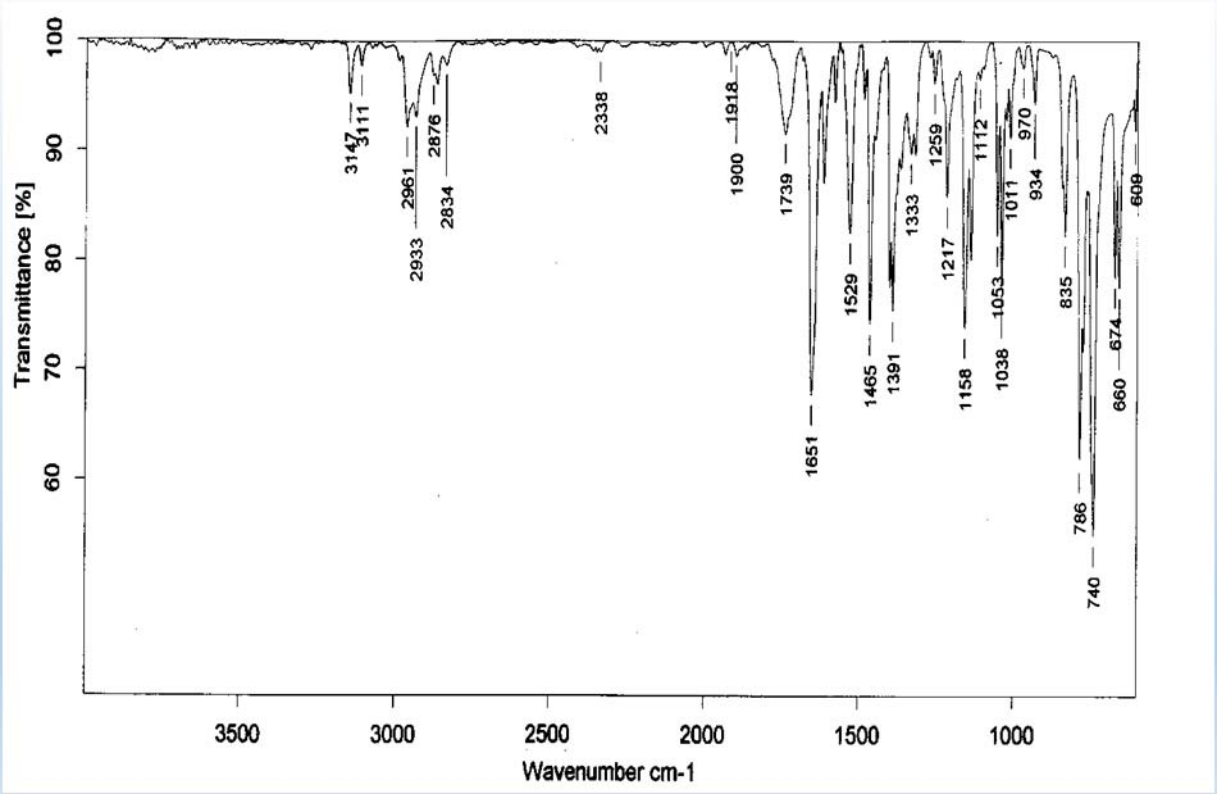

Fig. S28 - IR (KBr) spectra of **3j**

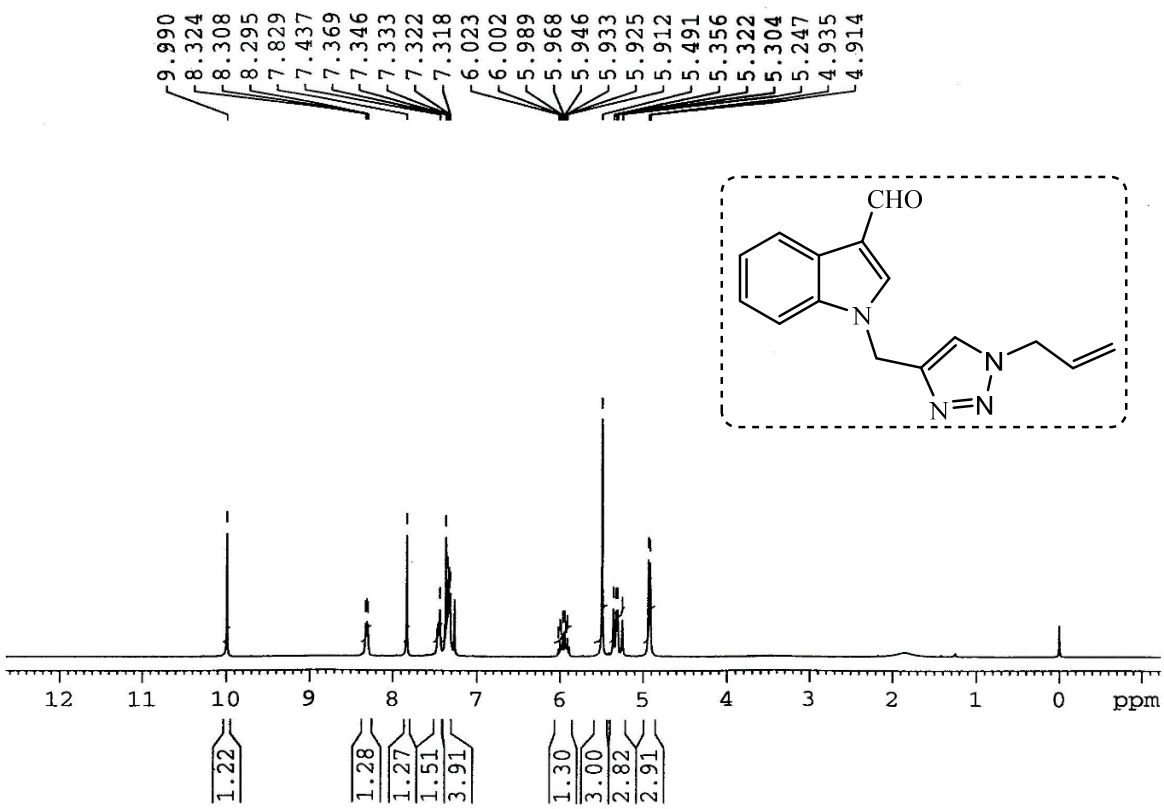

Fig. S29 - ^{1}H NMR spectra of **3k** (300 MHz, $CDCl_3$)

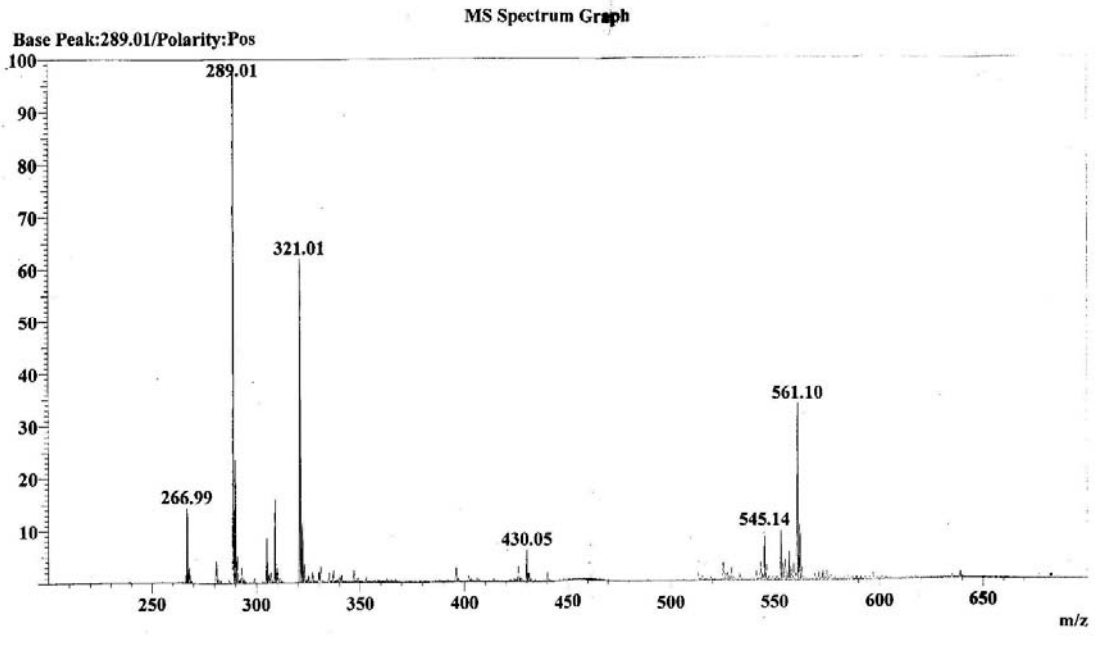

Fig. S30 - Mass spectra of **3k** (ESI-MS, positive)

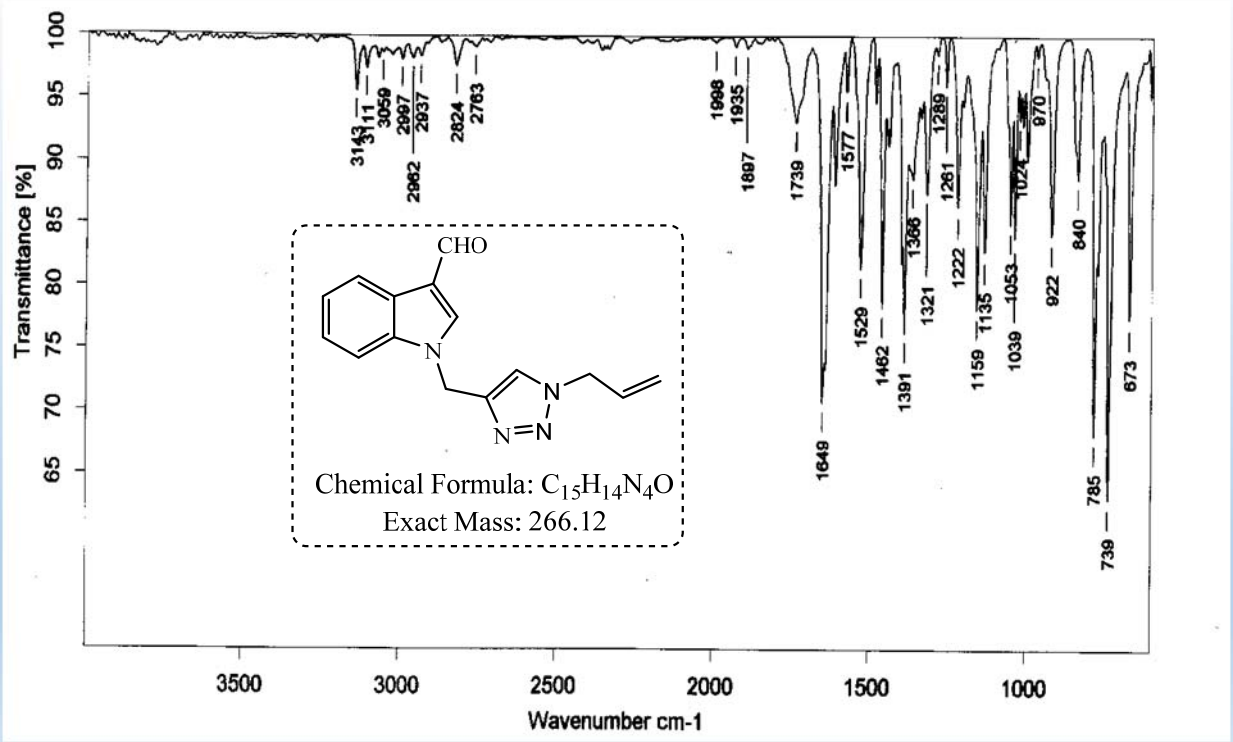

Fig. S31 - IR (KBr) spectra of **3k**

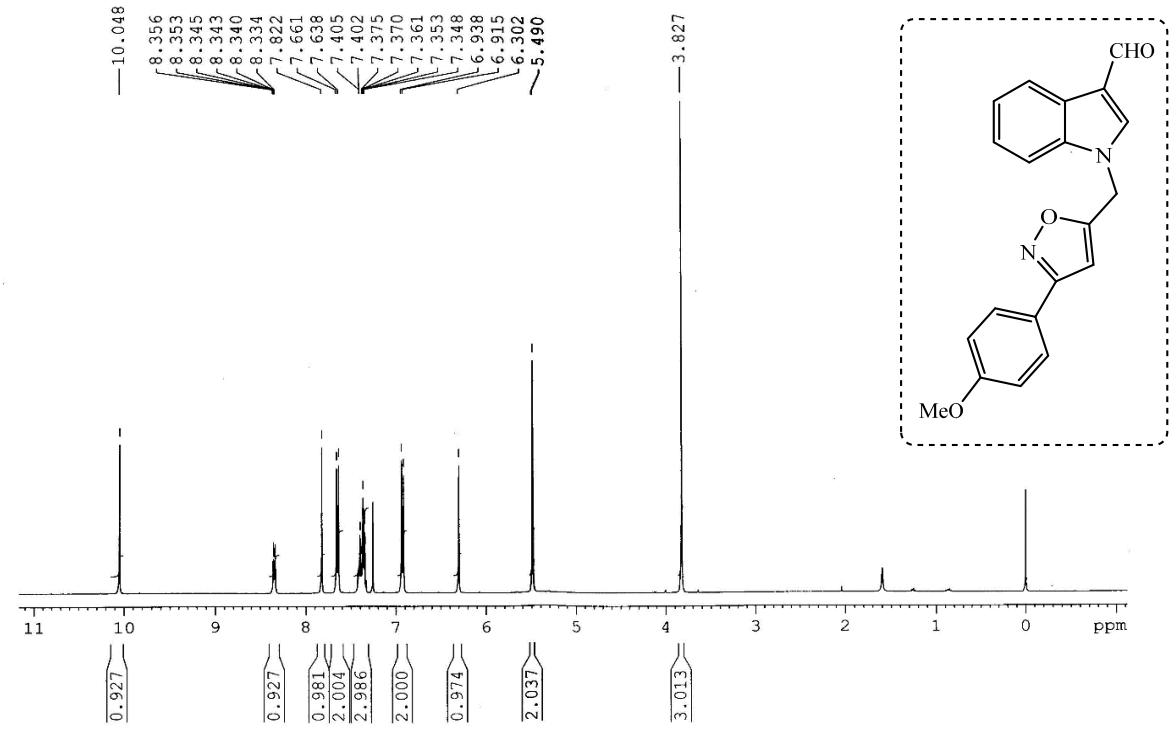

Fig. S32 - ^{1}H NMR spectra of ***4l*** (300 MHz, $CDCl_3$)

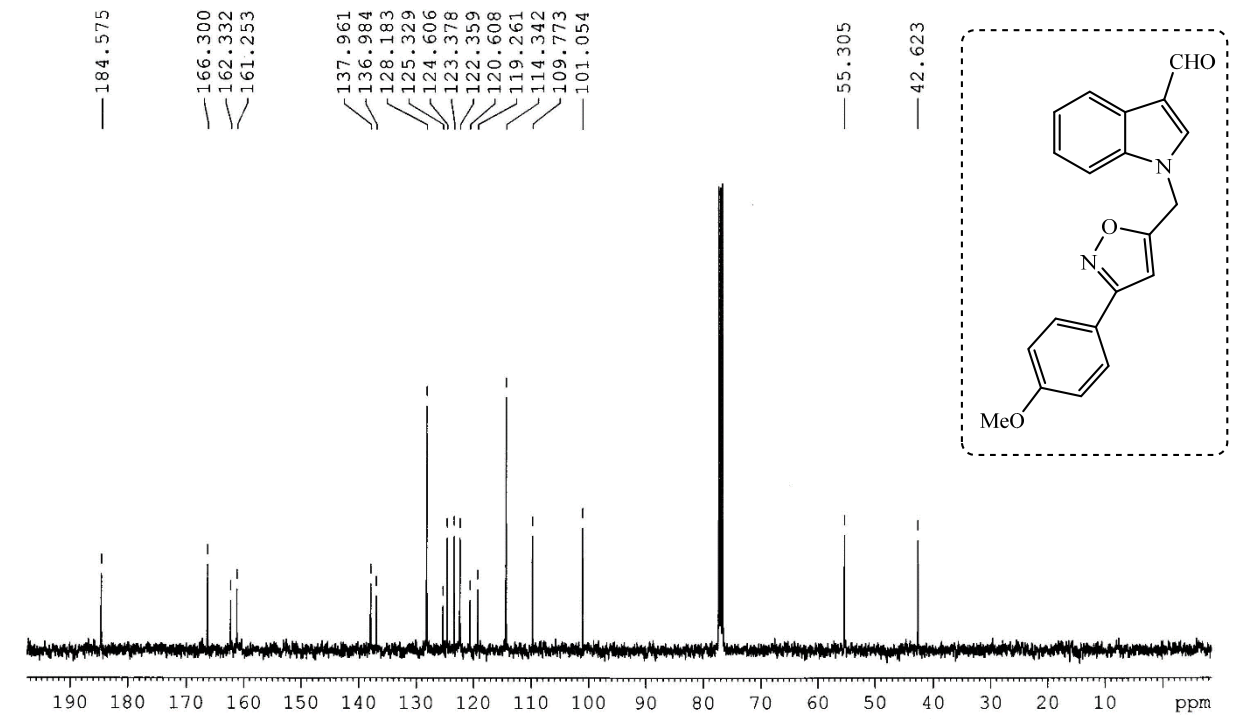

Fig. S33 - ^{13}C NMR spectra of ***4l*** (75 MHz, $CDCl_3$)

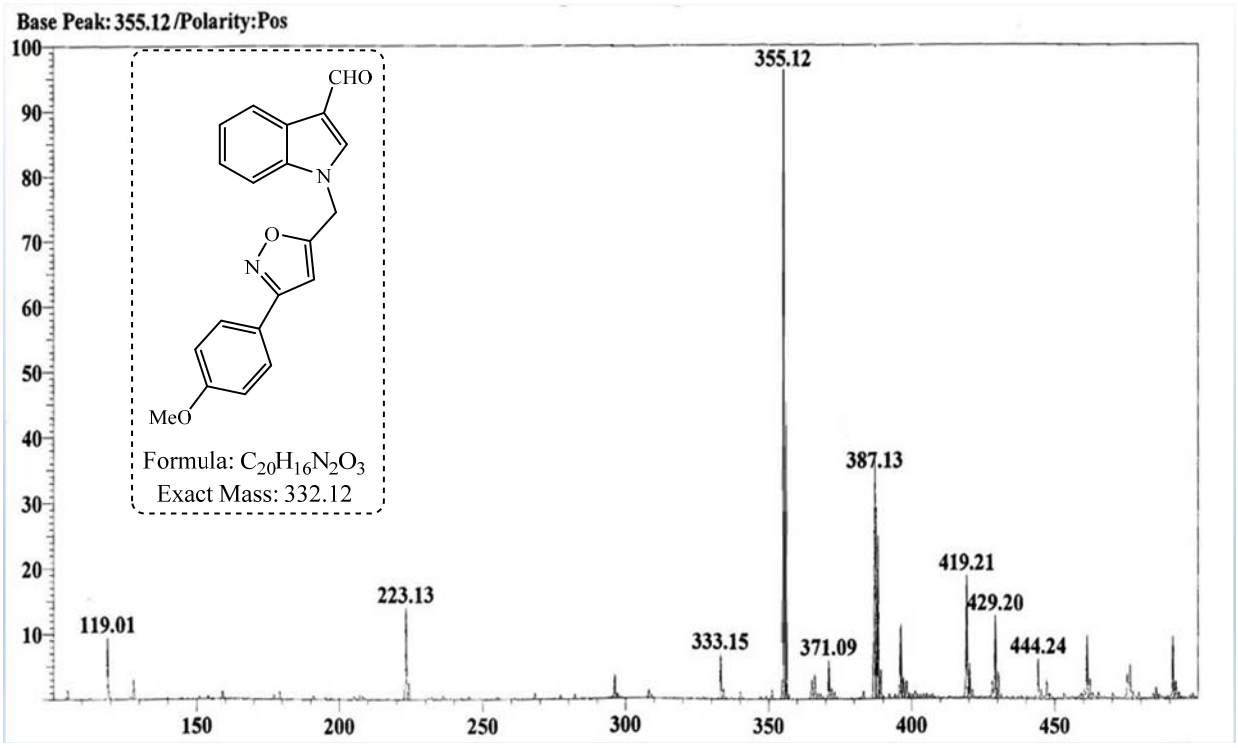

Fig. S34 - Mass spectra of ***4l*** (ESI-MS, positive)

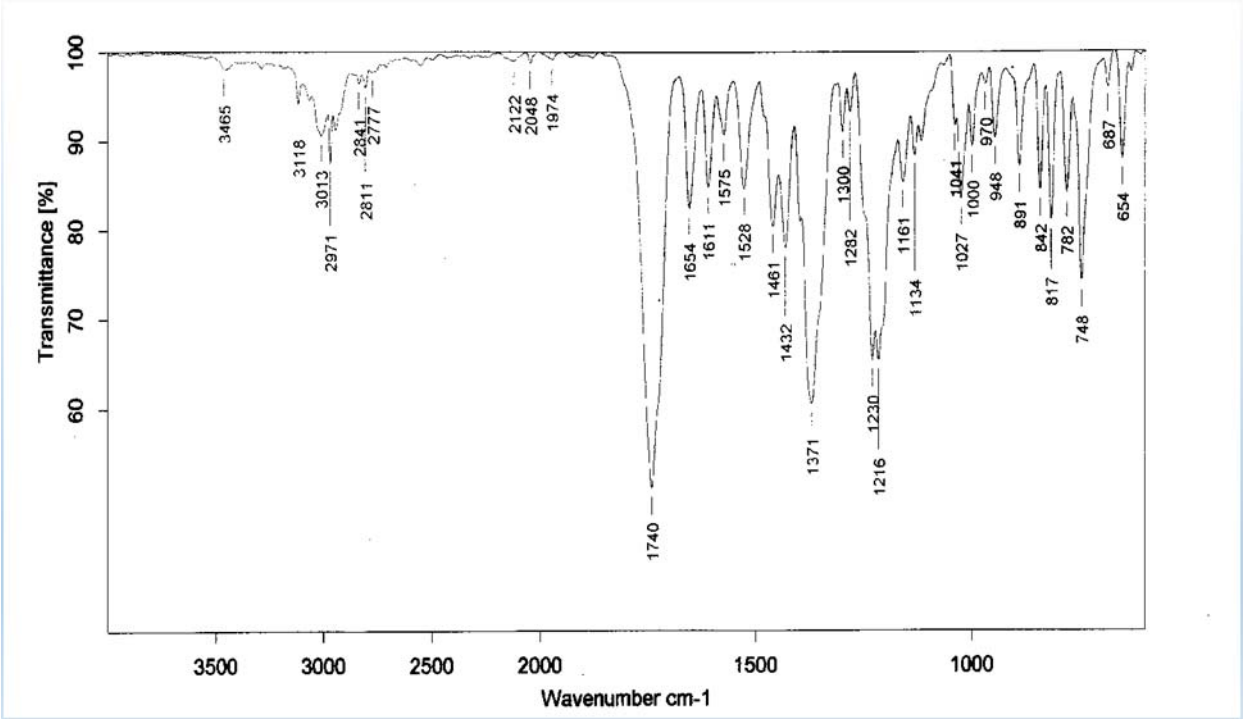

Fig. S35 - IR (KBr) spectra of ***4l***

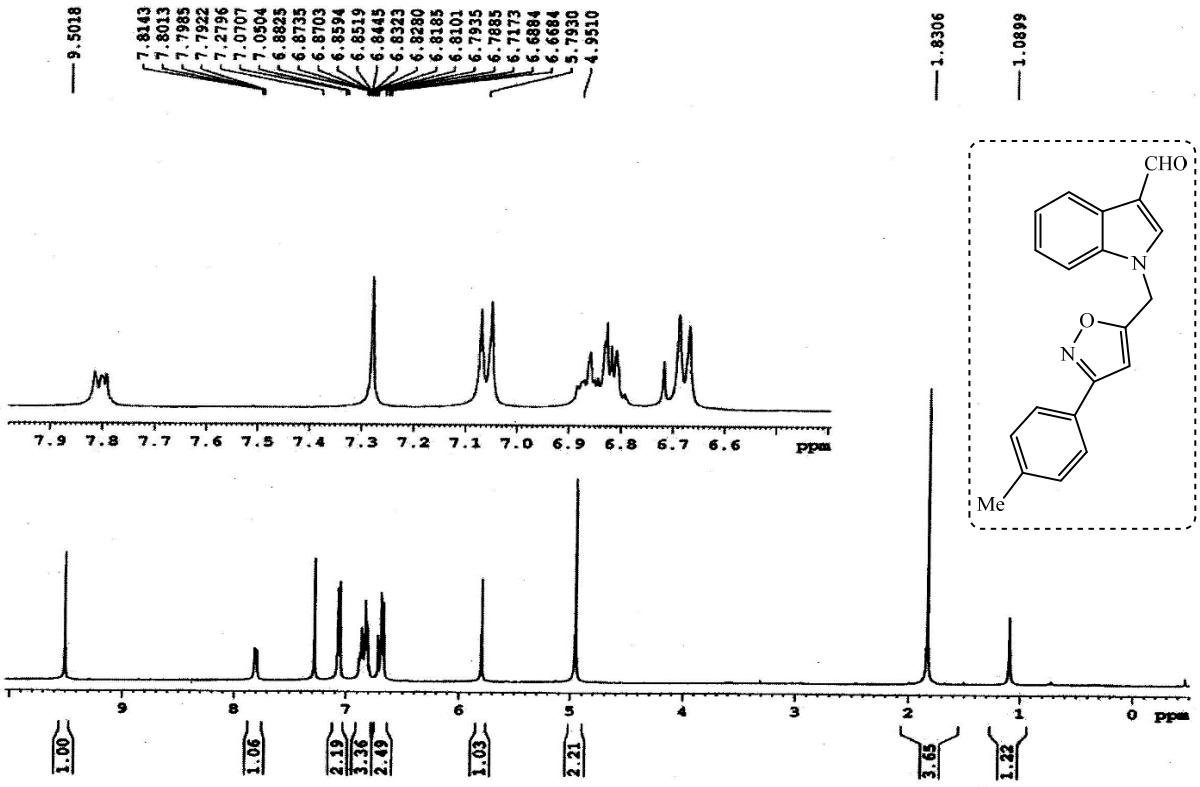

Fig. S36 - ^{1}H NMR spectra of **4m** (400 MHz, $CDCl_3$)

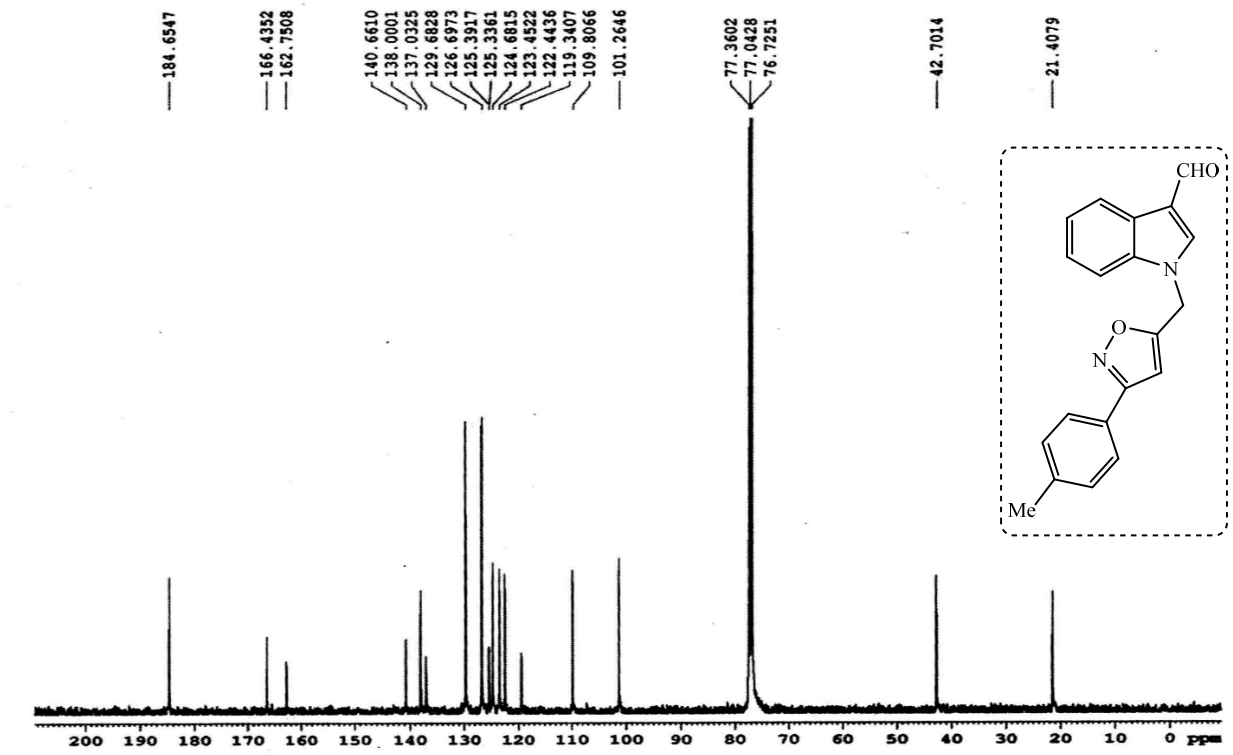

Fig. S37 - ^{13}C NMR spectra of **4m** (100 MHz, $CDCl_3$)

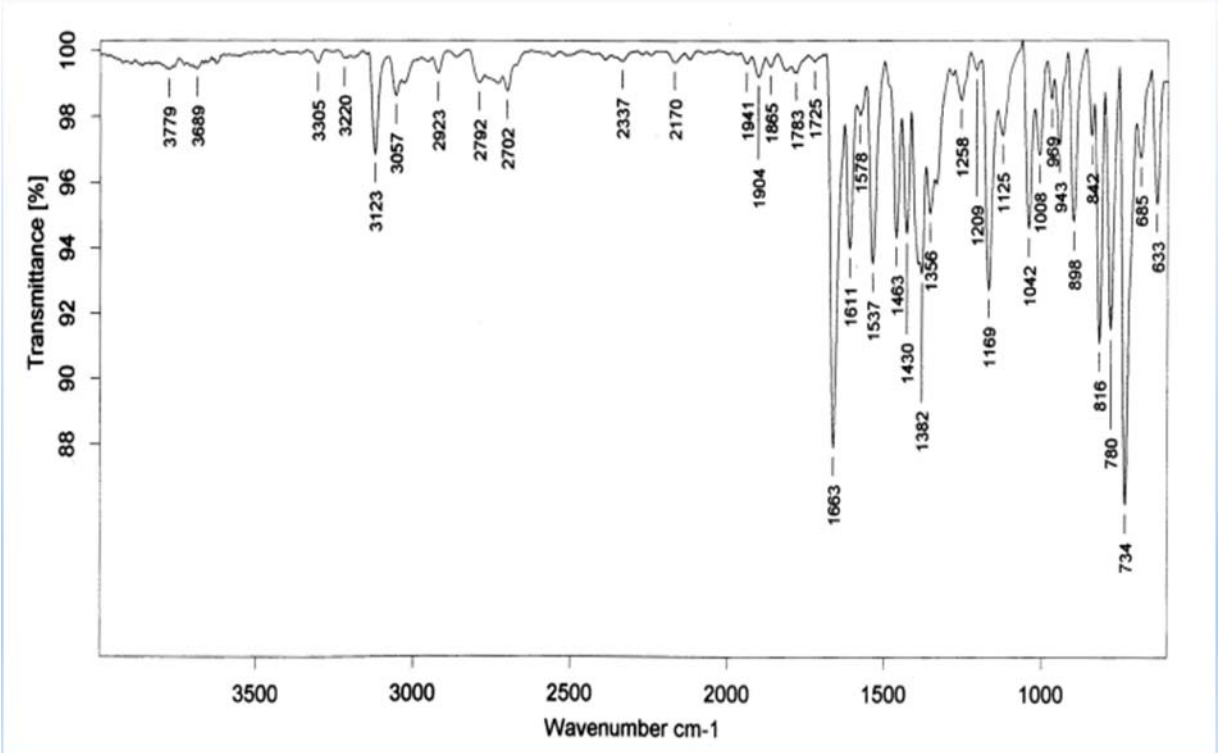

Fig. S38 - IR (KBr) spectra of **4m**

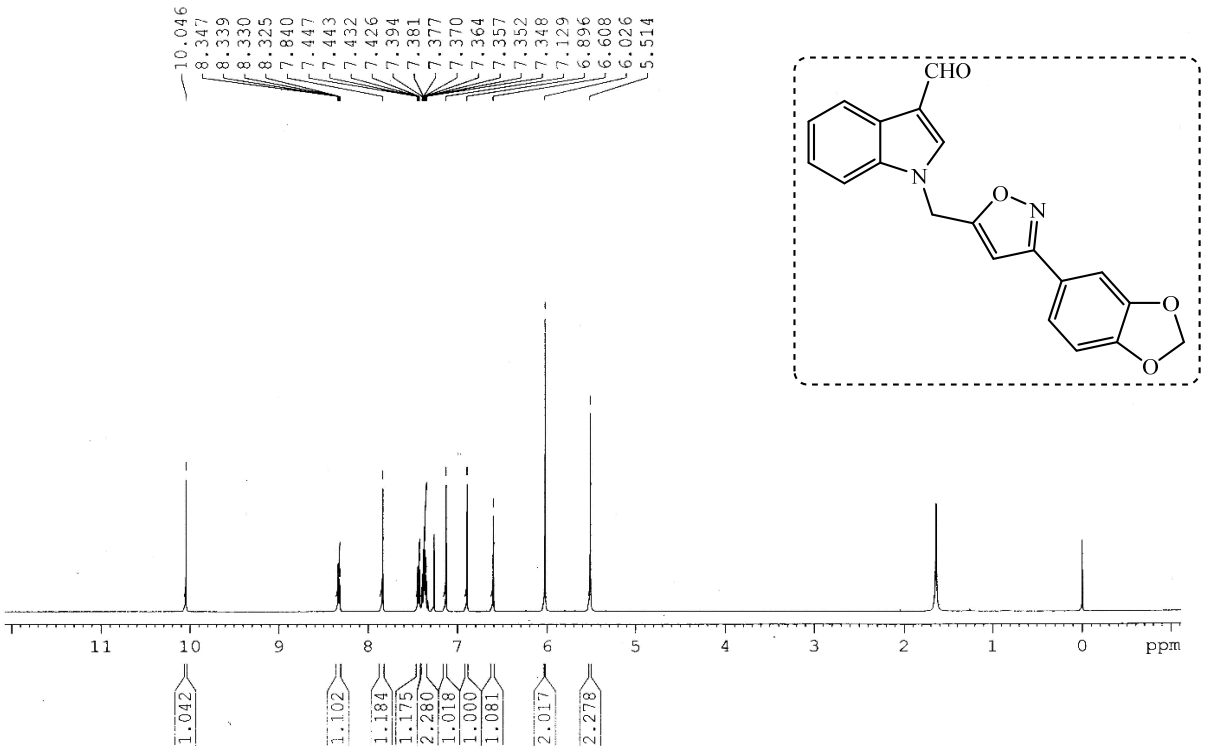

Fig. S39 - ^{1}H NMR spectra of **4n** (400 MHz, $CDCl_3$)

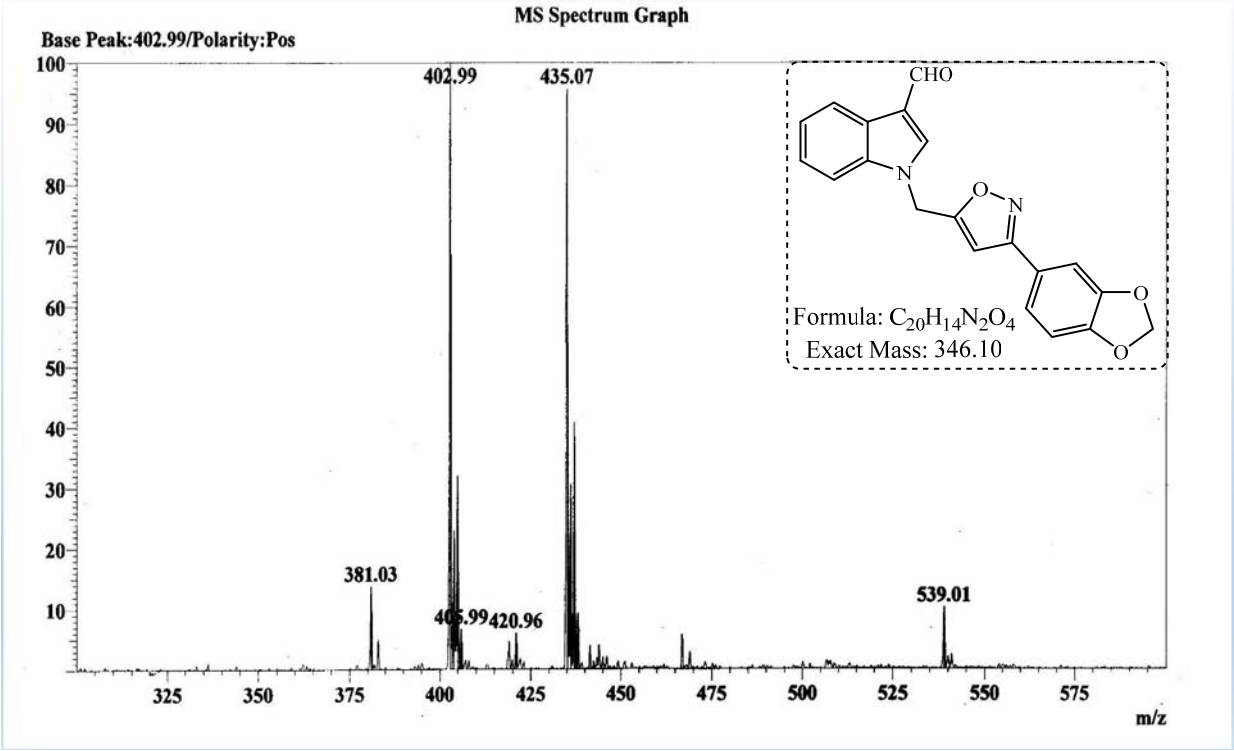

Fig. S40 - Mass spectra of **4n** (ESI-MS, positive)

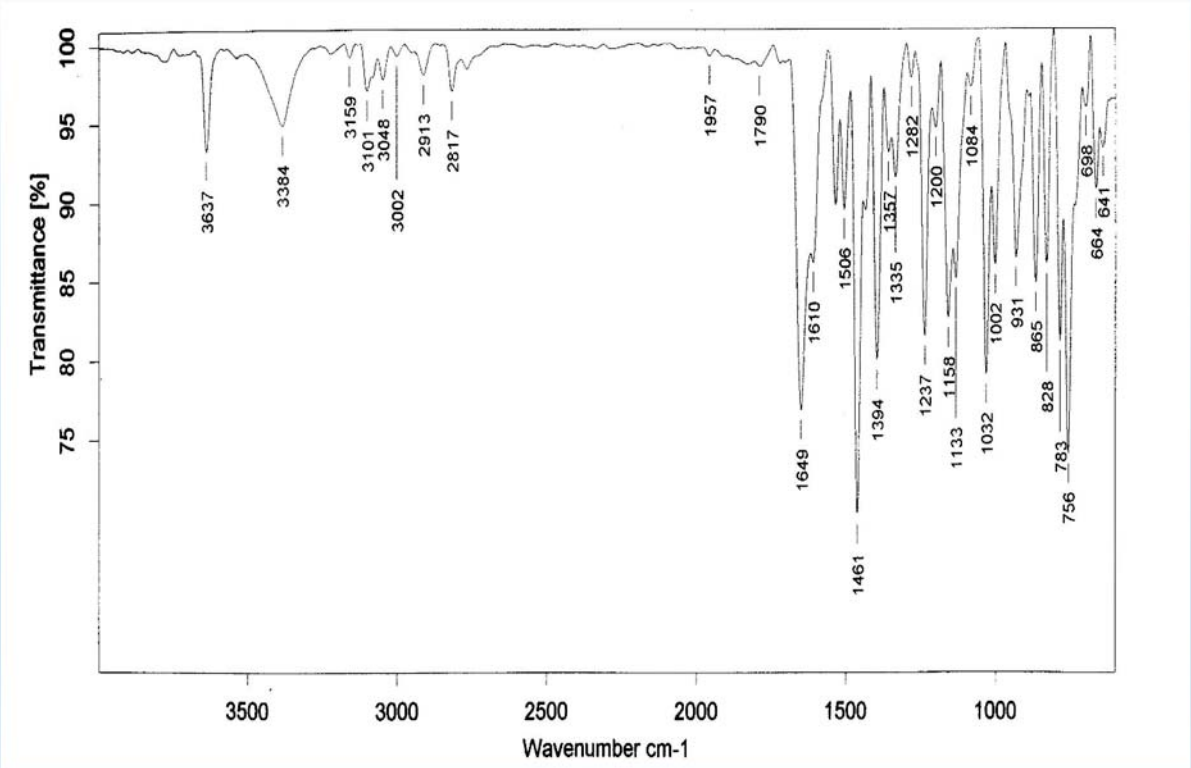

Fig. S41 - IR (KBr) spectra of **4n**

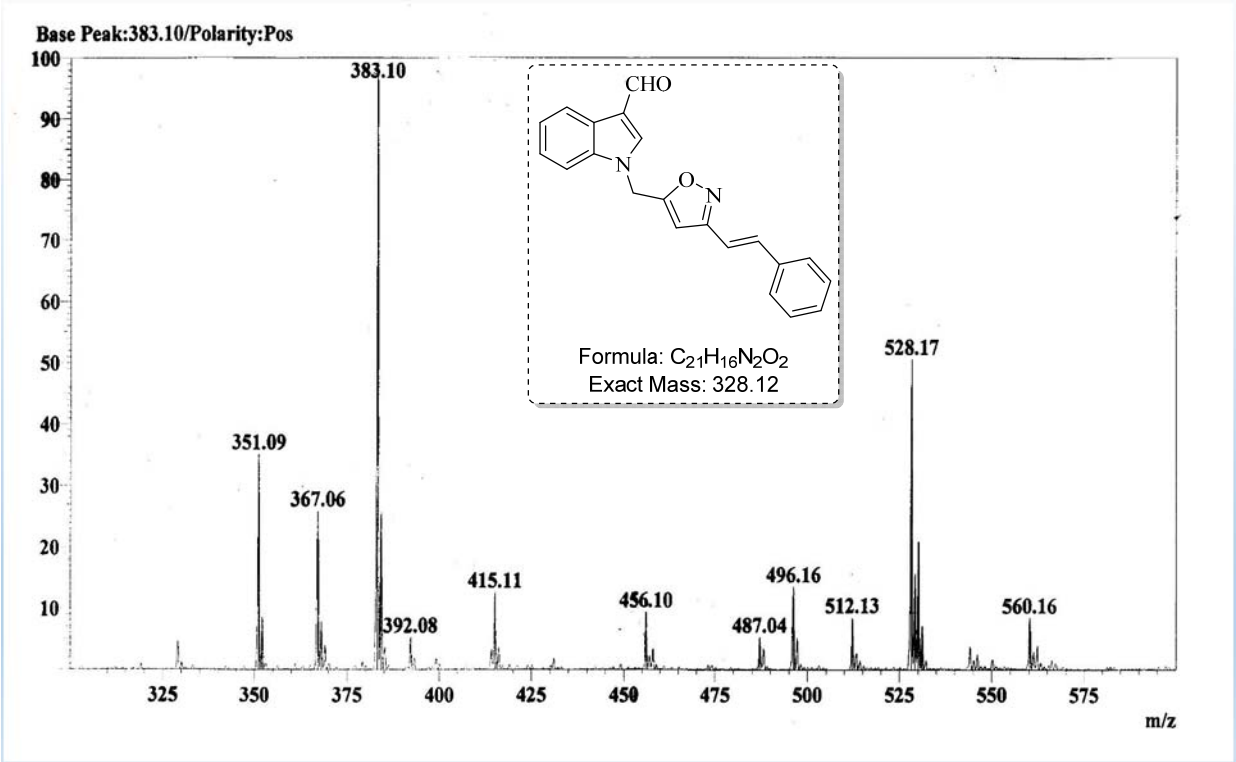

Fig. S42- Mass spectra of **4o** (ESI-MS, positive)

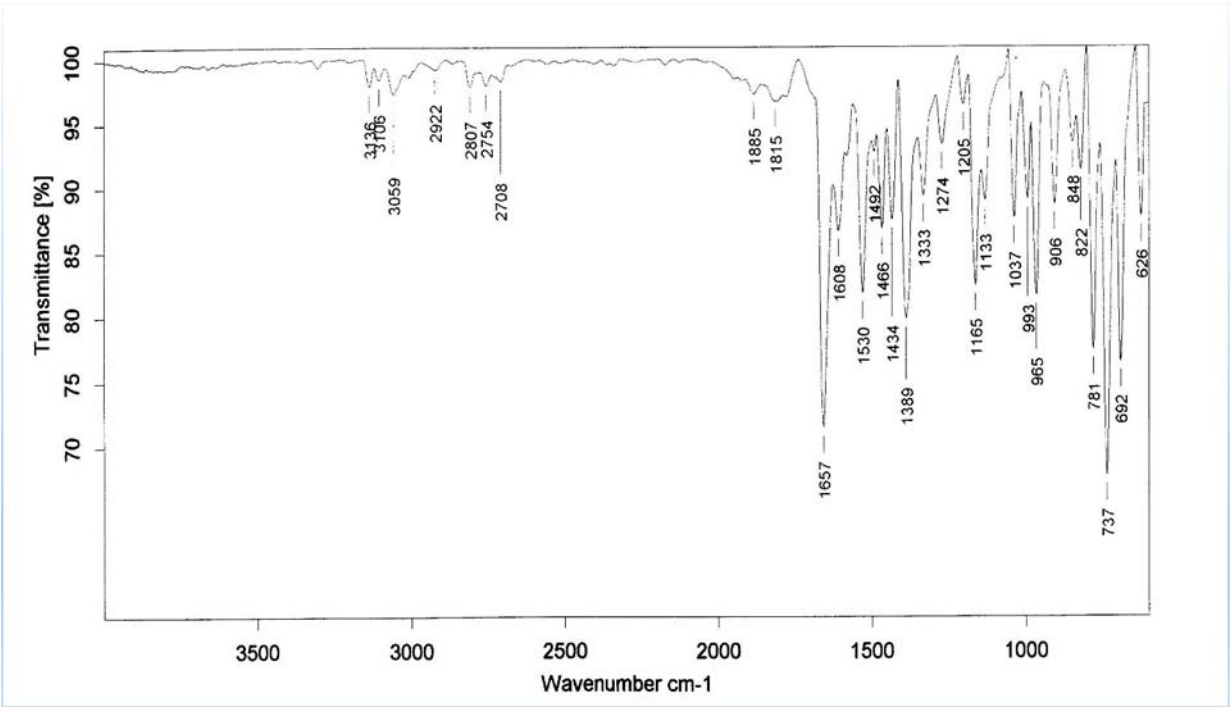

Fig. S43- IR spectra of **4*o*** (KBr)

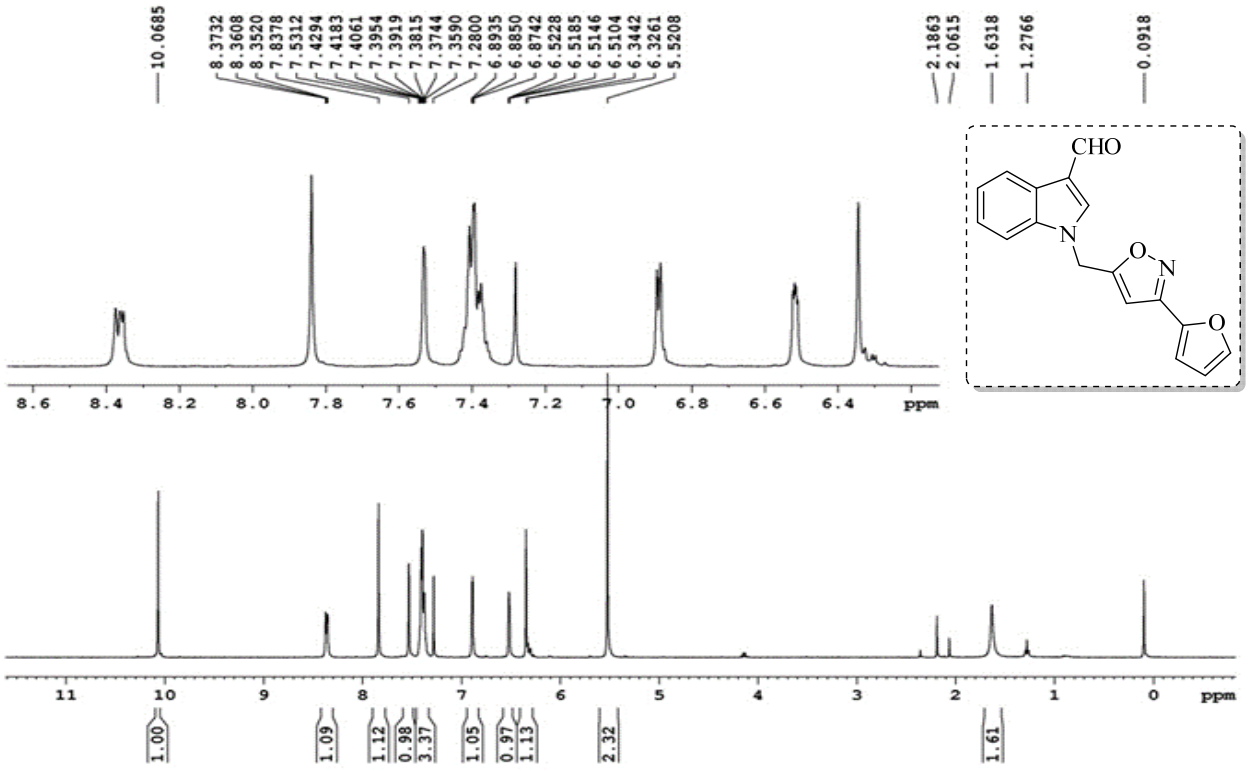

Fig. S44- ^{1}H NMR spectra of ***4p***(400 MHz, $CDCl_3$)

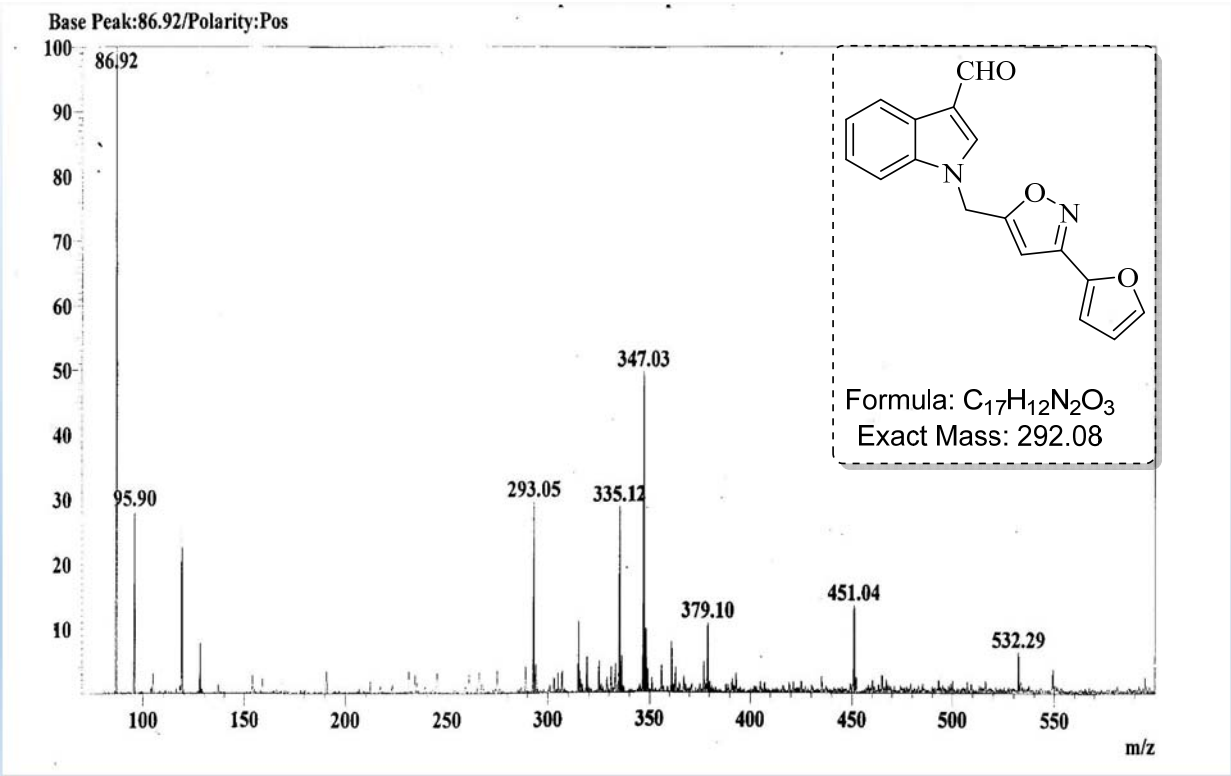

Fig. S45- Mass spectra of ***4p*** (ESI-MS, positive)

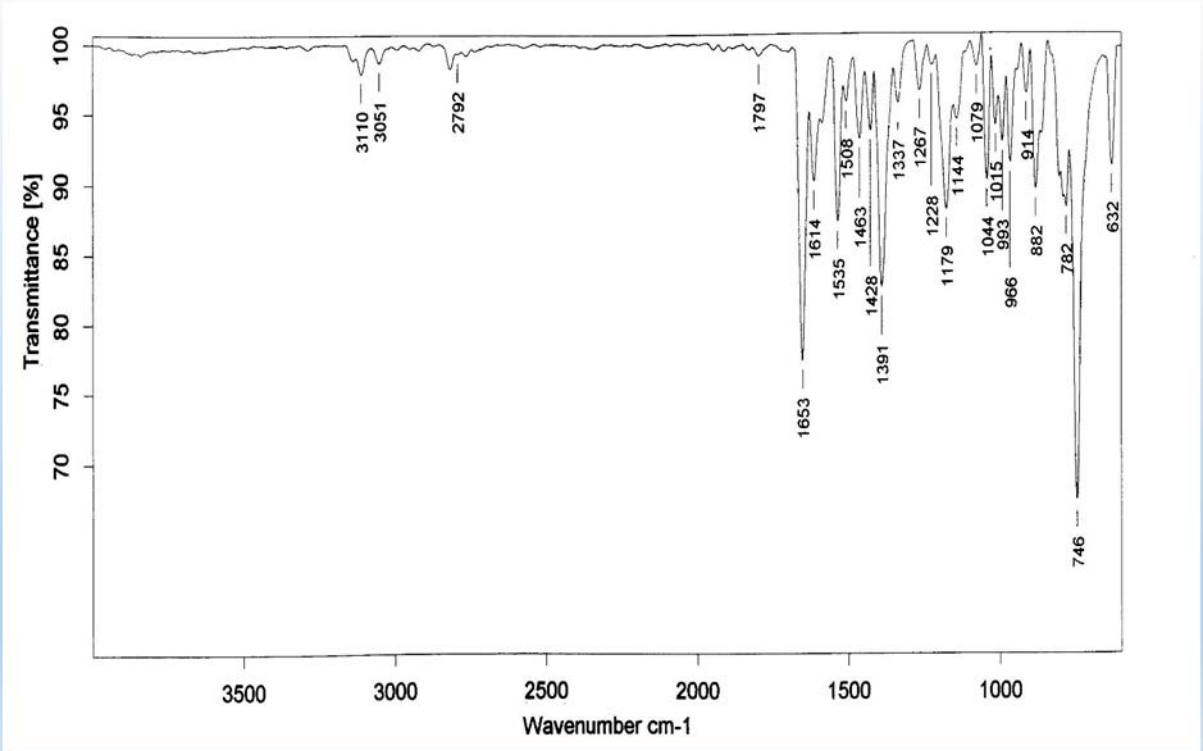

Fig. S46- IR (KBr) spectra of **4p**

Fig. S47- ^{1}H NMR spectra of **6*l*** (400 MHz, $CDCl_3$)

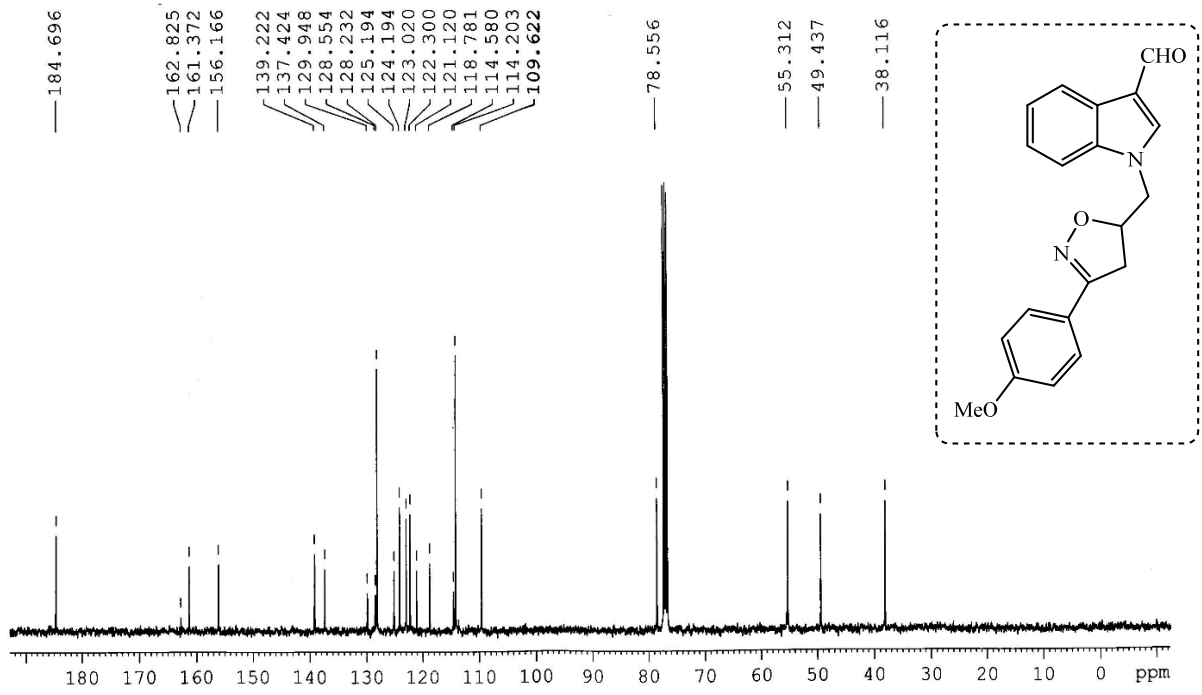

Fig. S48- ^{13}C NMR spectra of **6*l*** (75 MHz, $CDCl_3$)

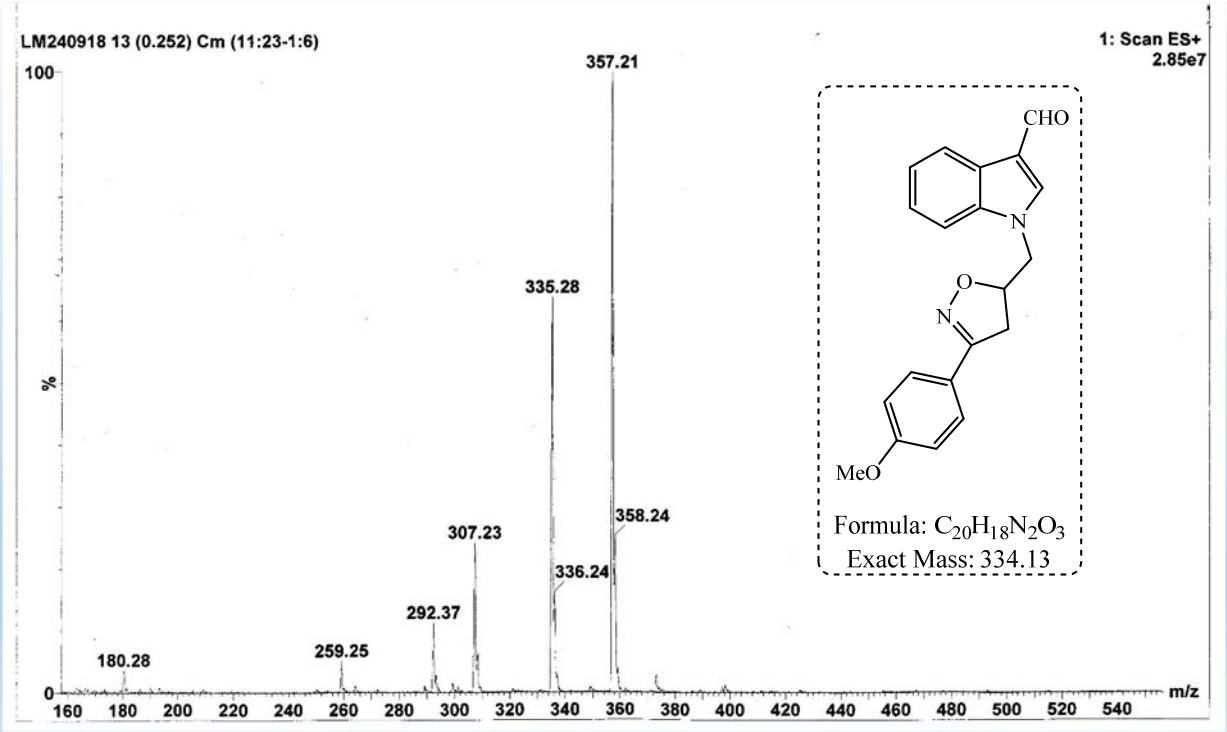

Fig. S49- Mass spectra of 6*l* (ESI-MS, positive)

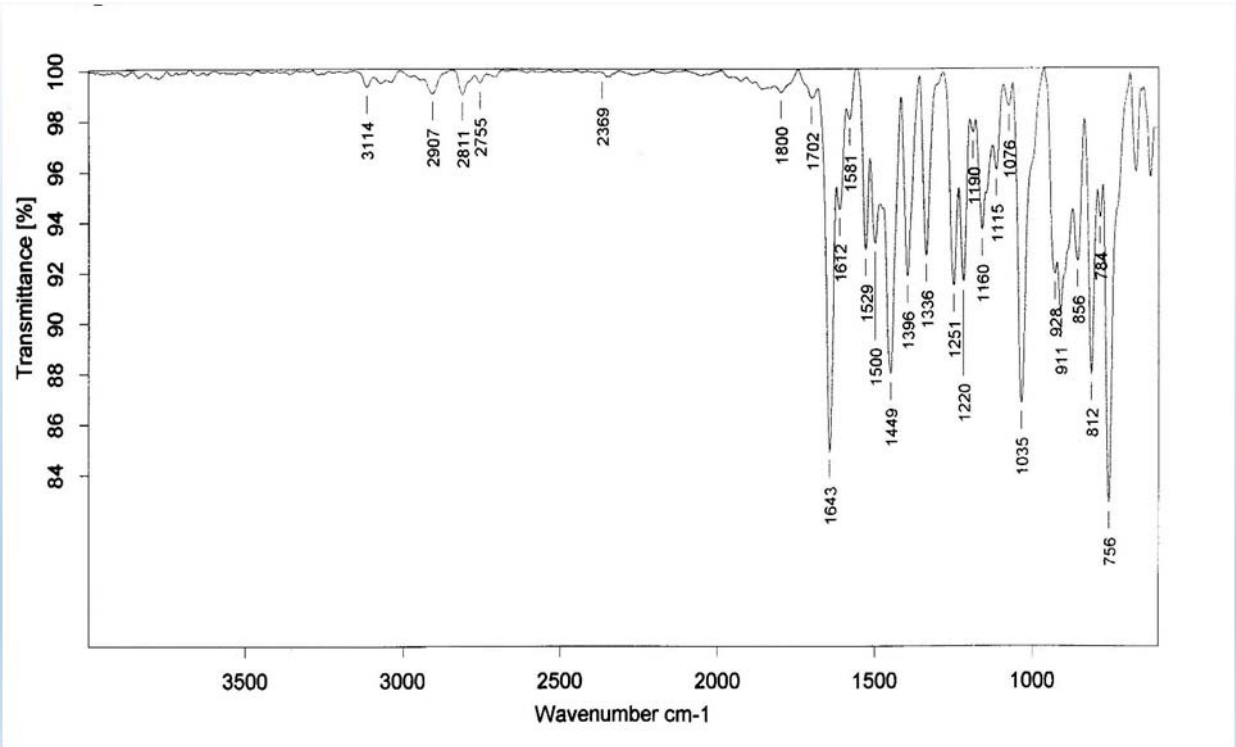

Fig. S50- IR (KBr) spectra of **6*l***

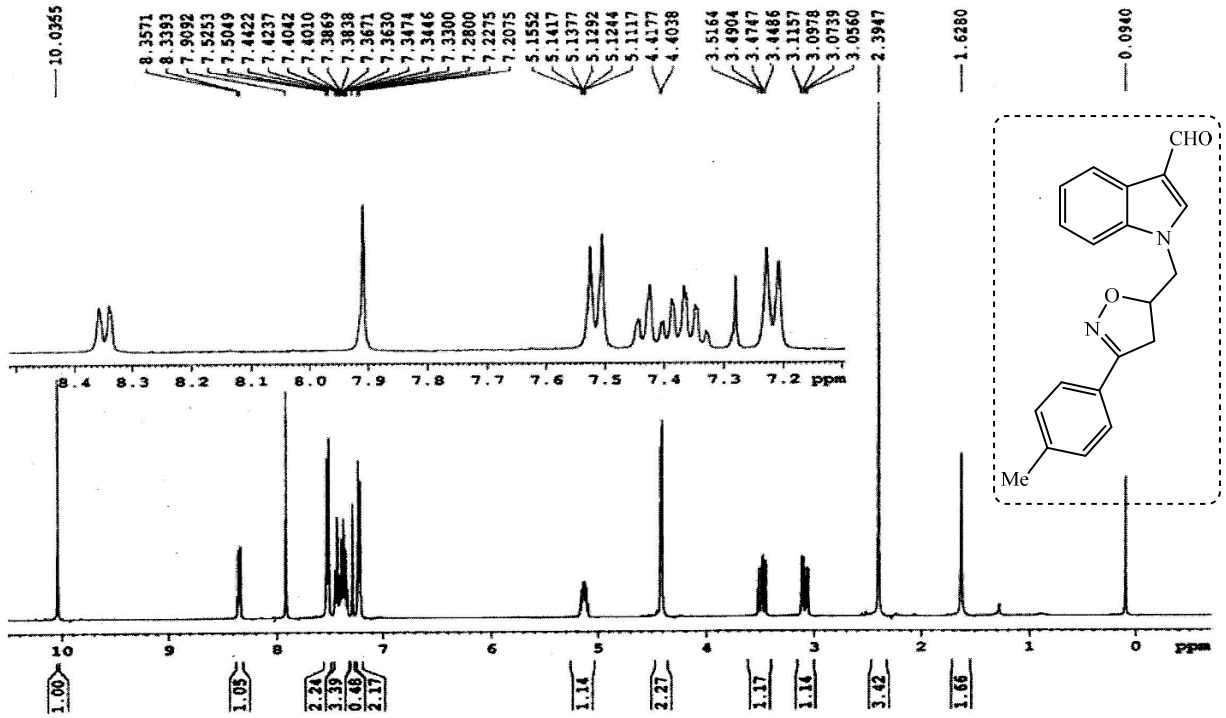

Fig. S51- ^{1}H NMR spectra of **6m** (400 MHz, $CDCl_3$)

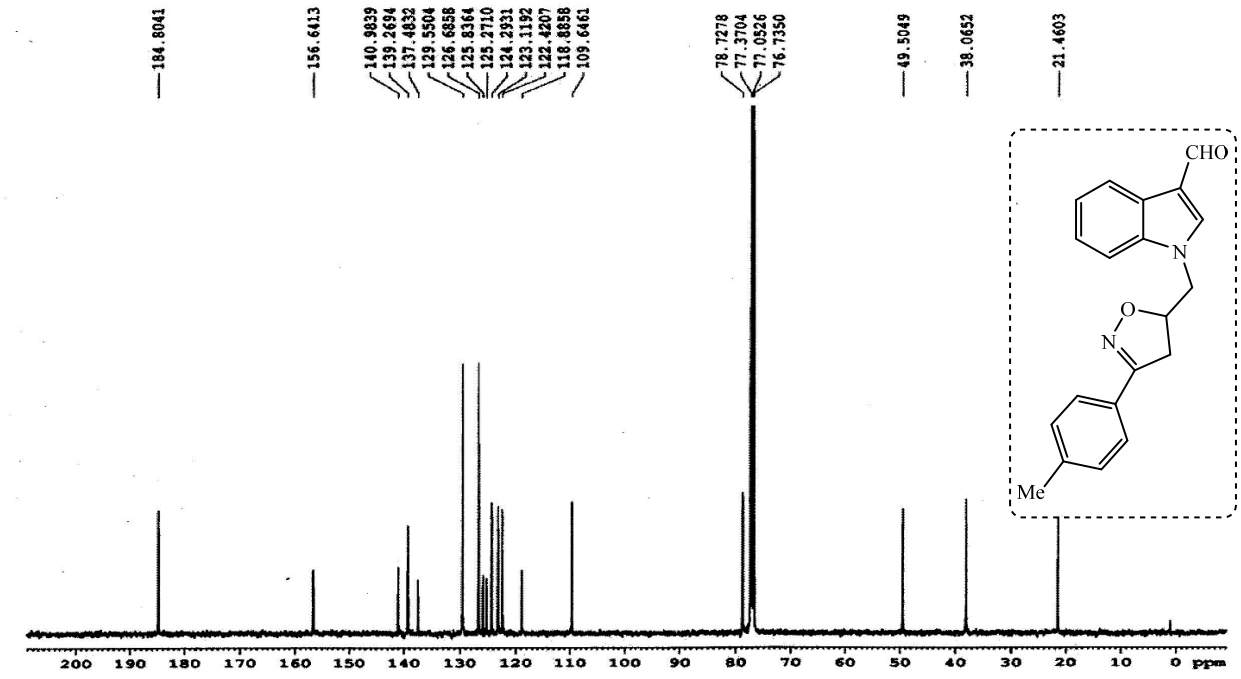

Fig. S52- ^{13}C NMR spectra of **6m** (100 MHz, $CDCl_3$)

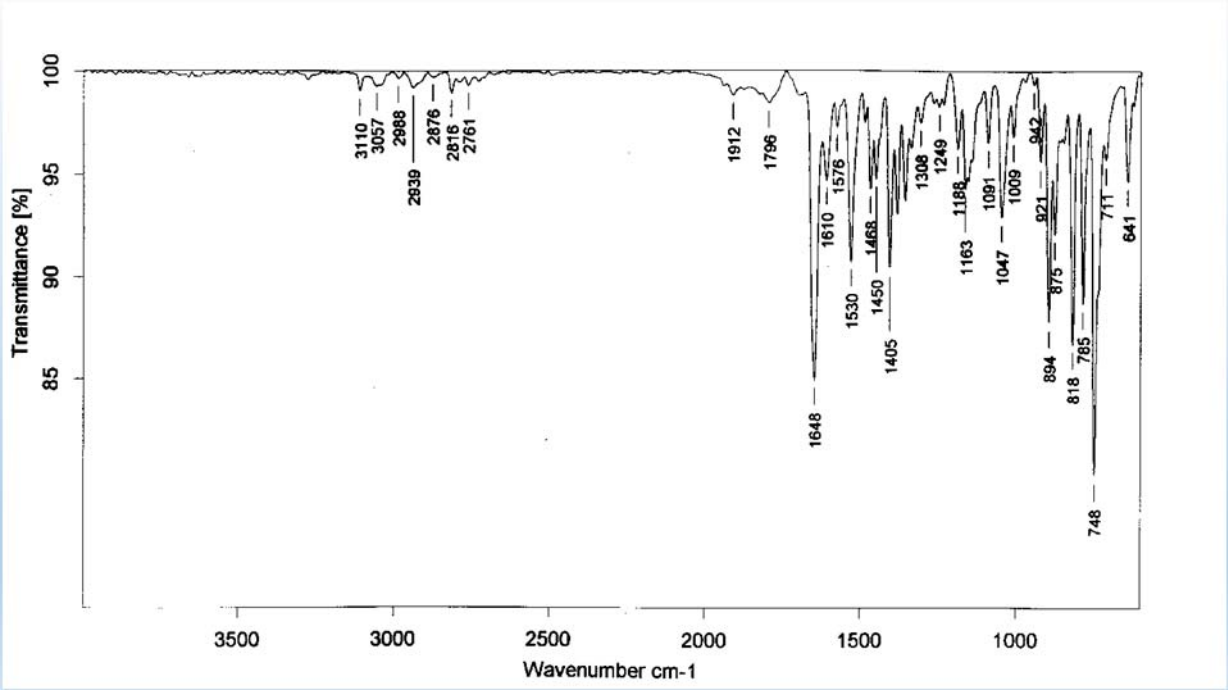

Fig. S53- IR (KBr) spectra of **6m**

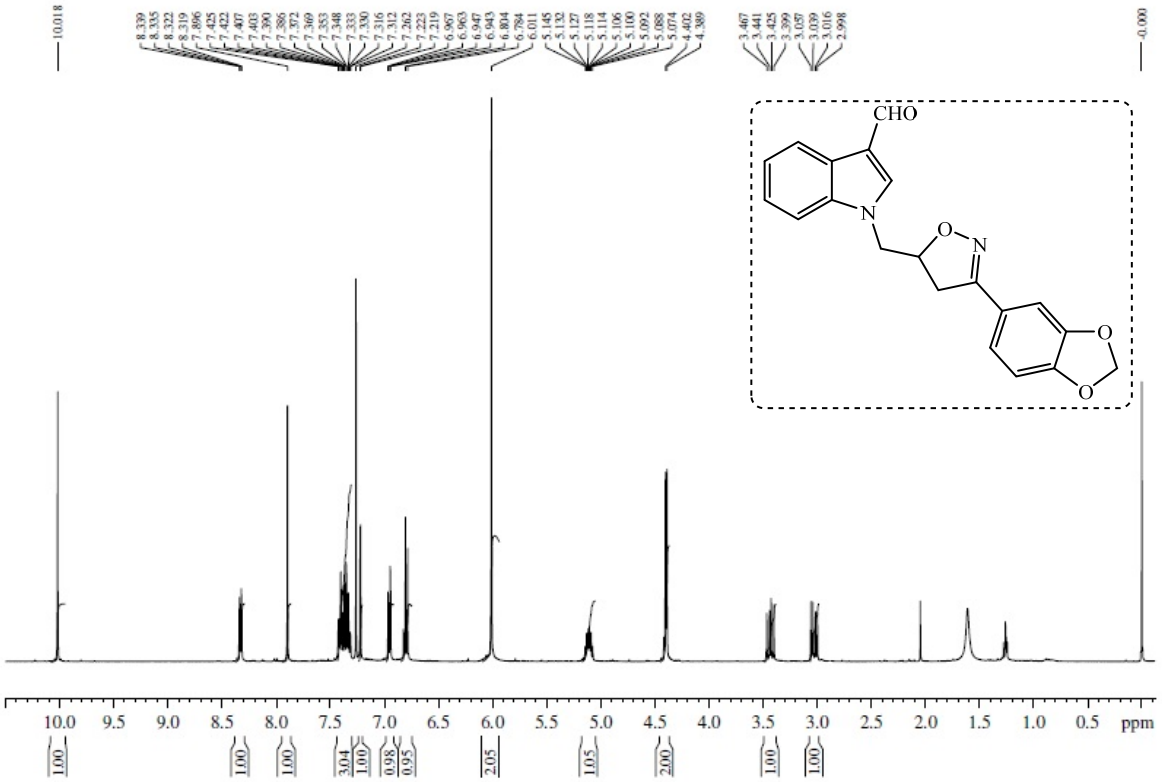

Fig. S54- ^{1}H NMR spectra of **6n** (400 MHz, $CDCl_3$)

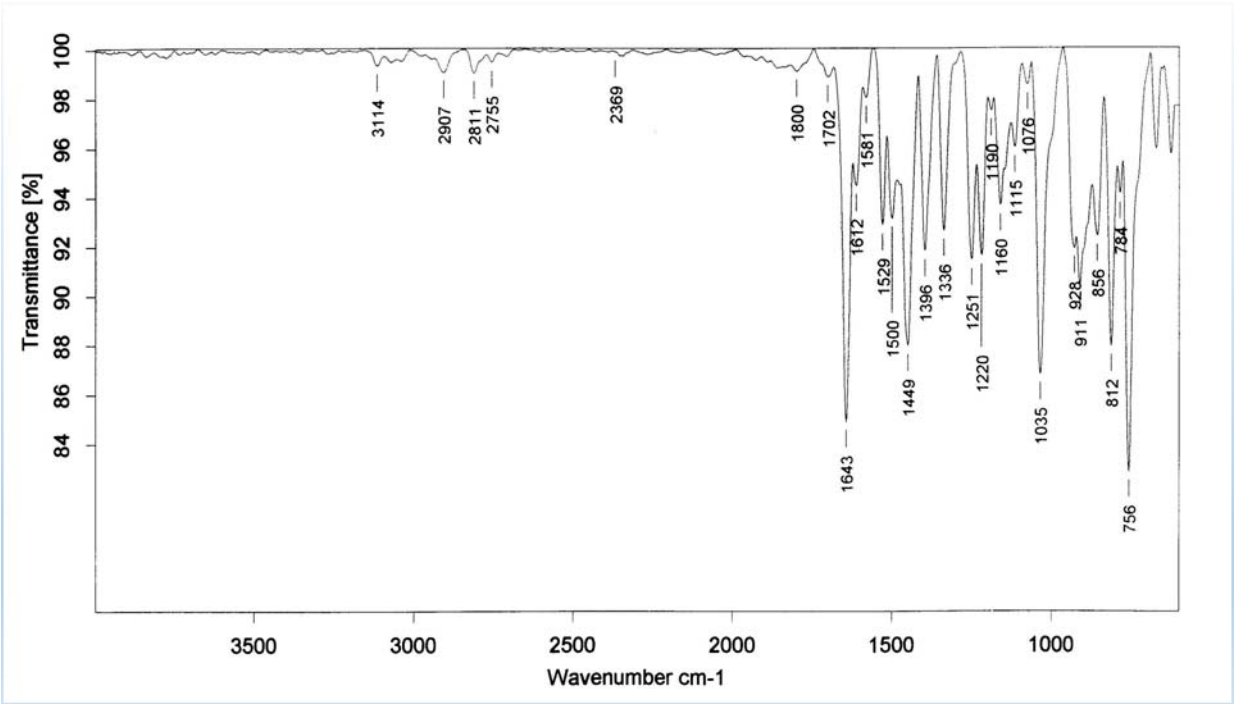

Fig. S55- IR (KBr) spectra of **6n**

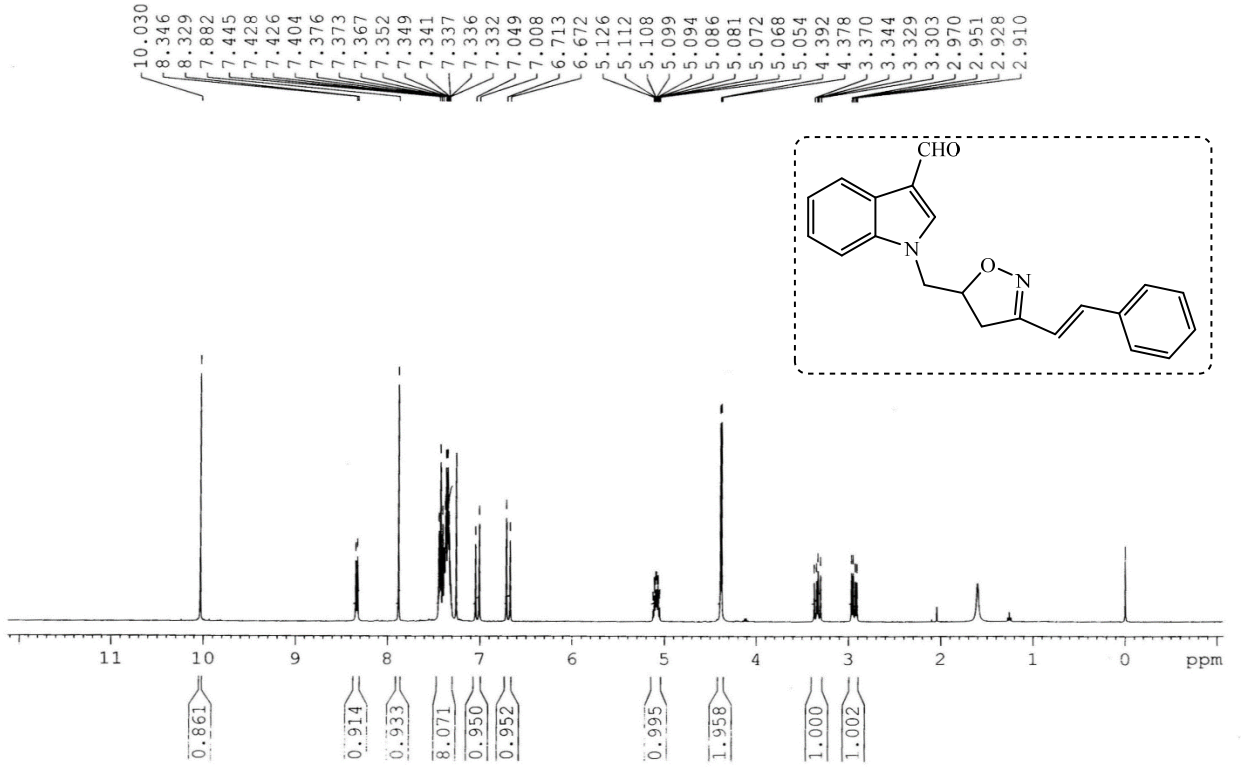

Fig. S56- ^{1}H NMR spectra of **6*o***(400 MHz, $CDCl_3$)

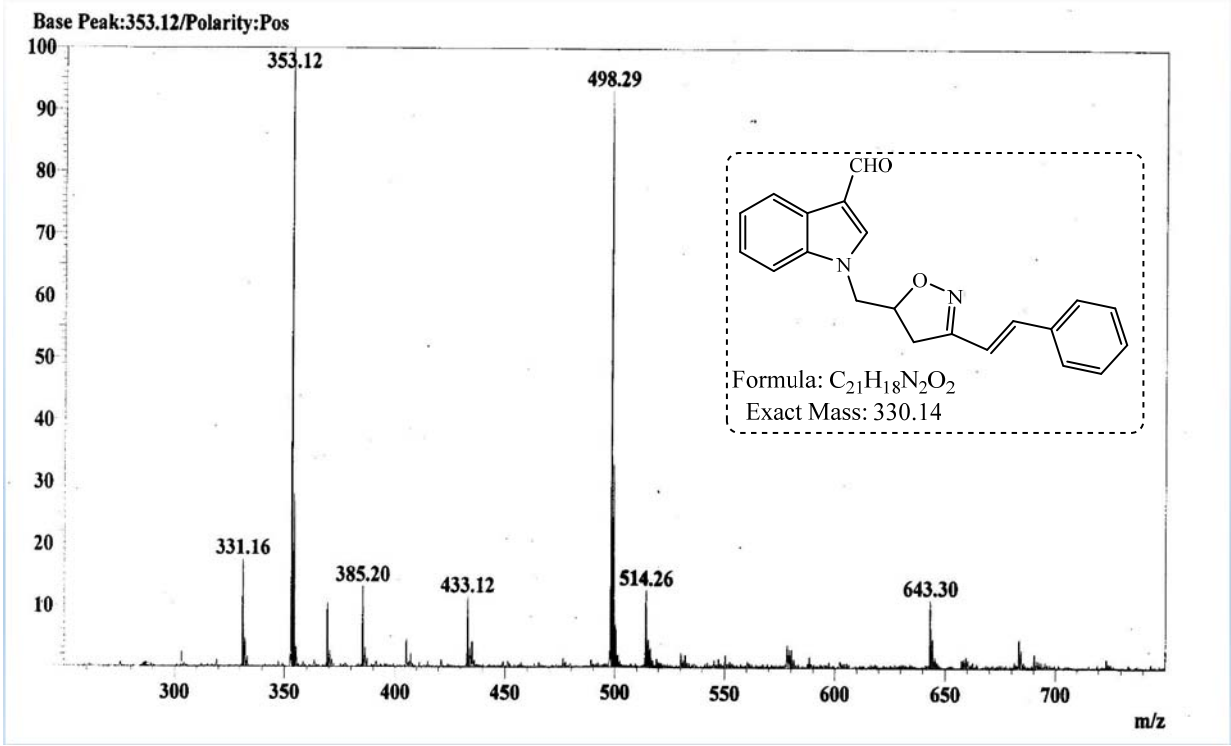

Fig. S57- Mass spectra of ***6o*** (ESI-MS, positive)

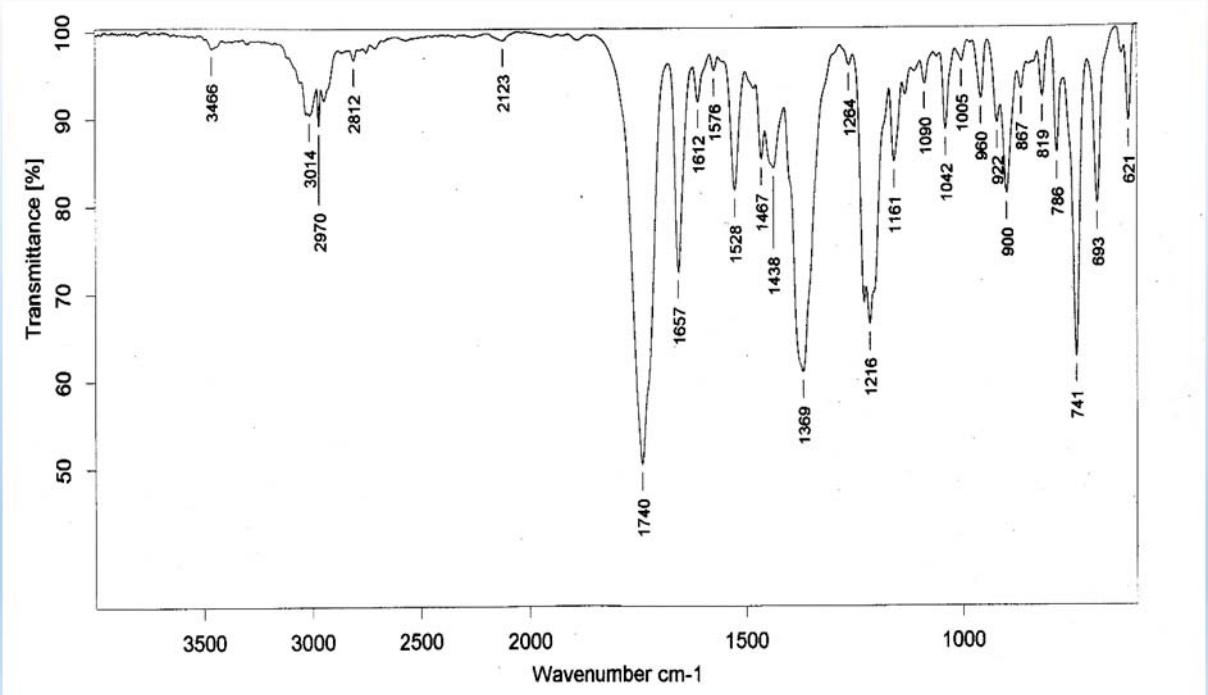

Fig. S58- IR (KBr) spectra of **6*o***

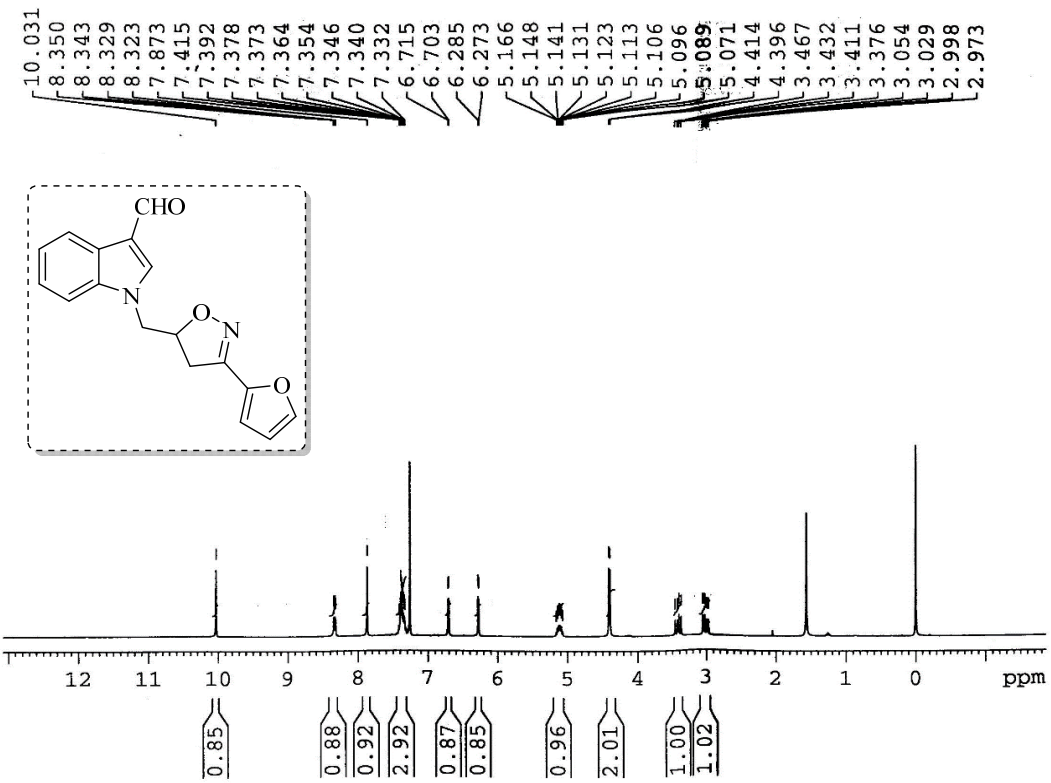

Fig. S59- ^{1}H NMR spectra of **6*p***(300 MHz, $CDCl_3$)

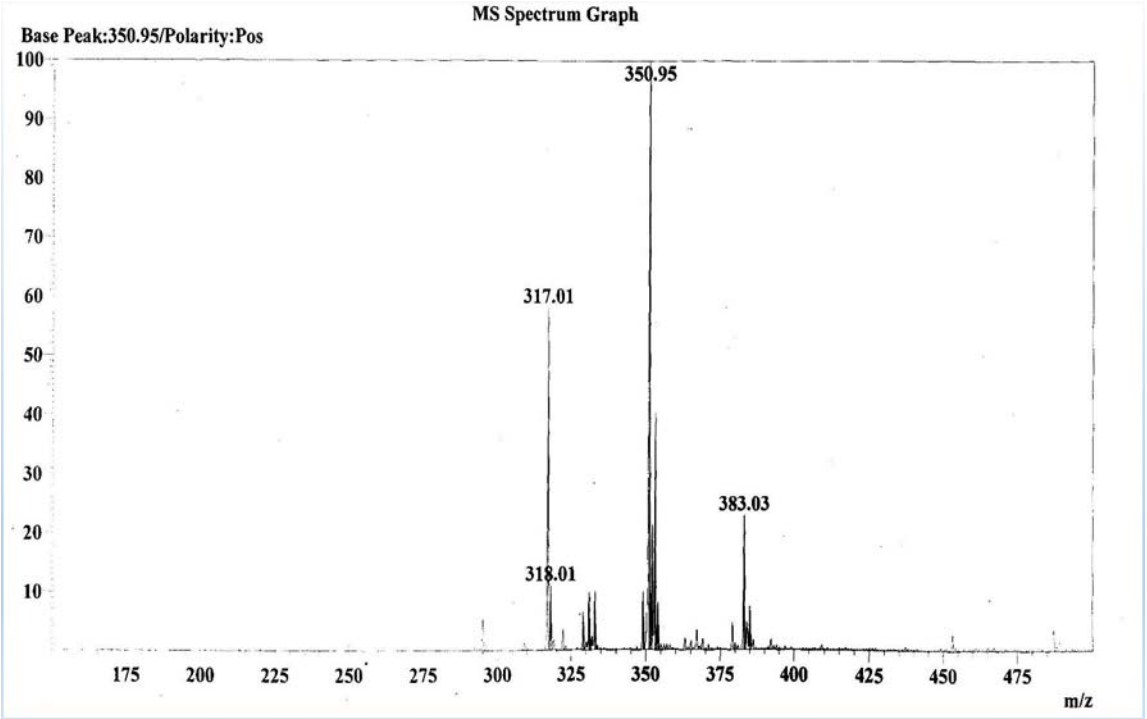

Fig. S60- Mass spectra of ***6p*** (ESI-MS, positive)