

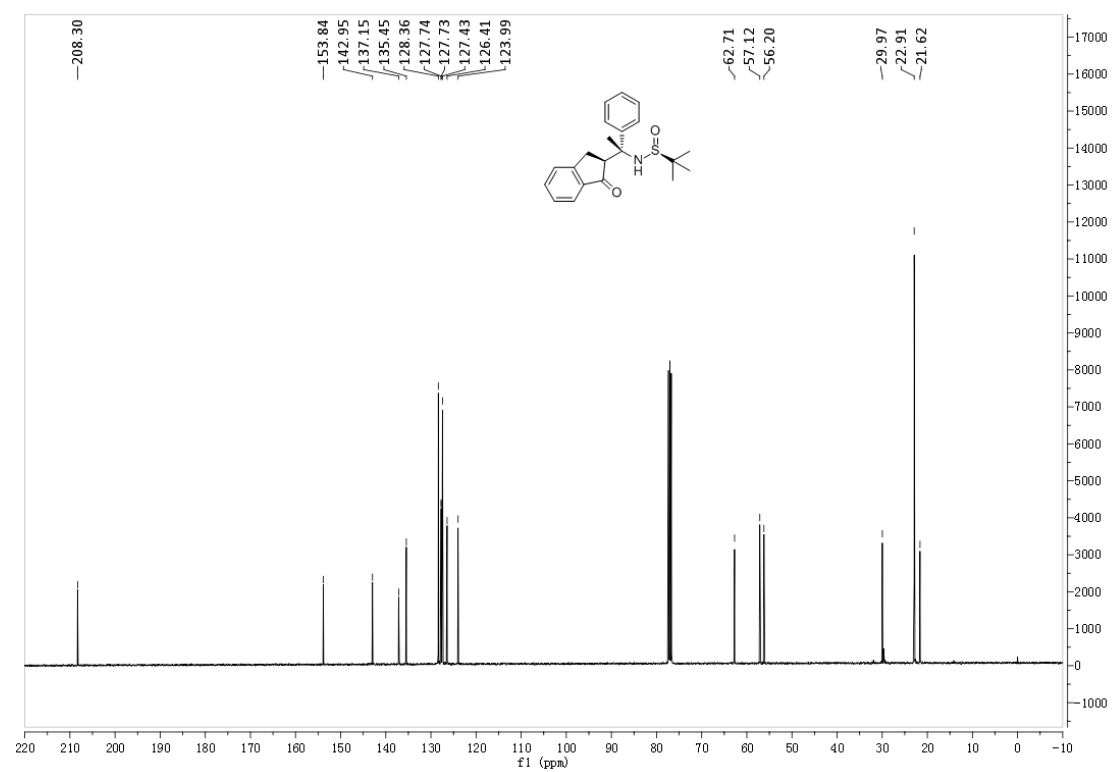
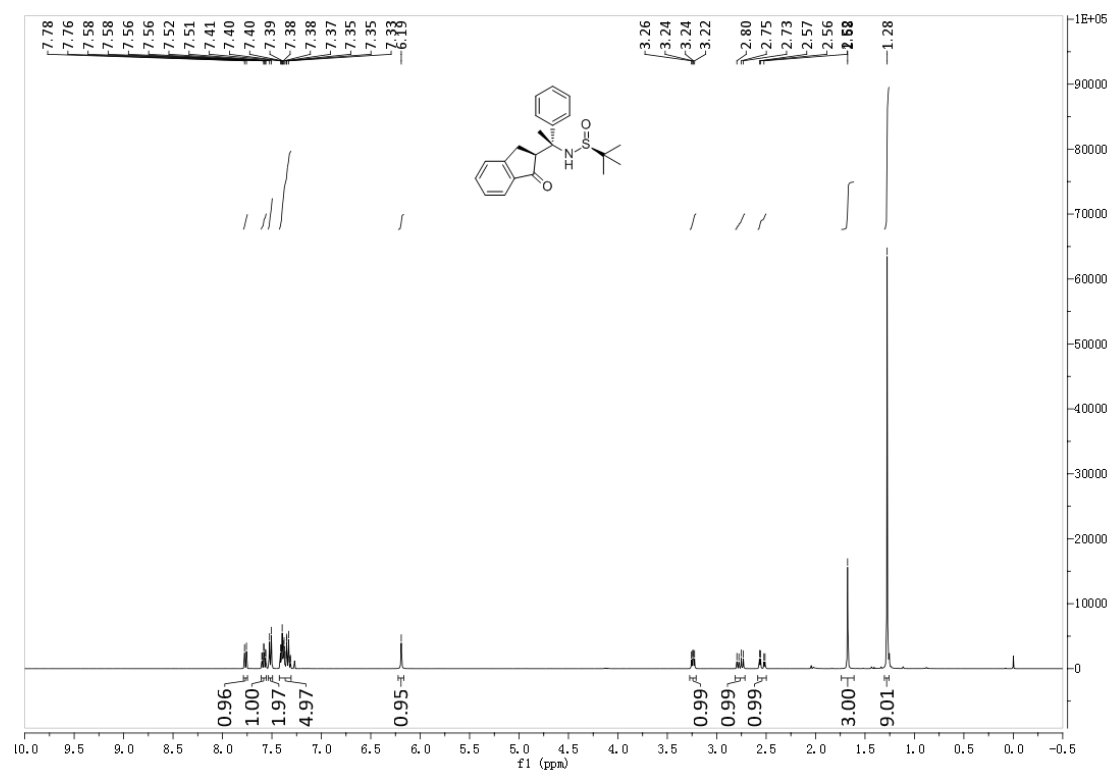
Supporting Information

**Highly efficient and generalized asymmetric synthesis of quaternary
stereogenic carbon-containing β -amino indanones/indanoles *via*
Mannich-type additions between 1-indanones and
N-*tert*-butanesulfinylketimines**

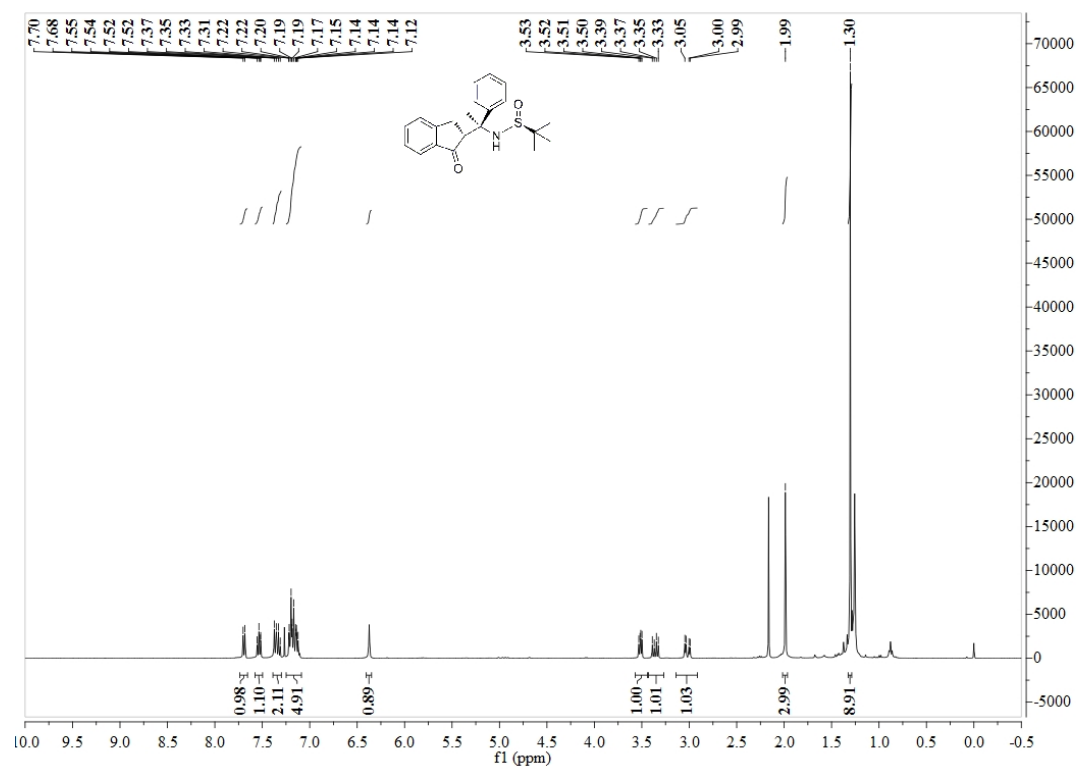
**Lingmin Wu,^a Chen Xie,^a Haibo Mei,^a Jianlin Han,^{*a} Vadim A. Soloshonok^{b,c}
and Yi Pan^a**

NMR spectra of compounds 3, 4 and 5

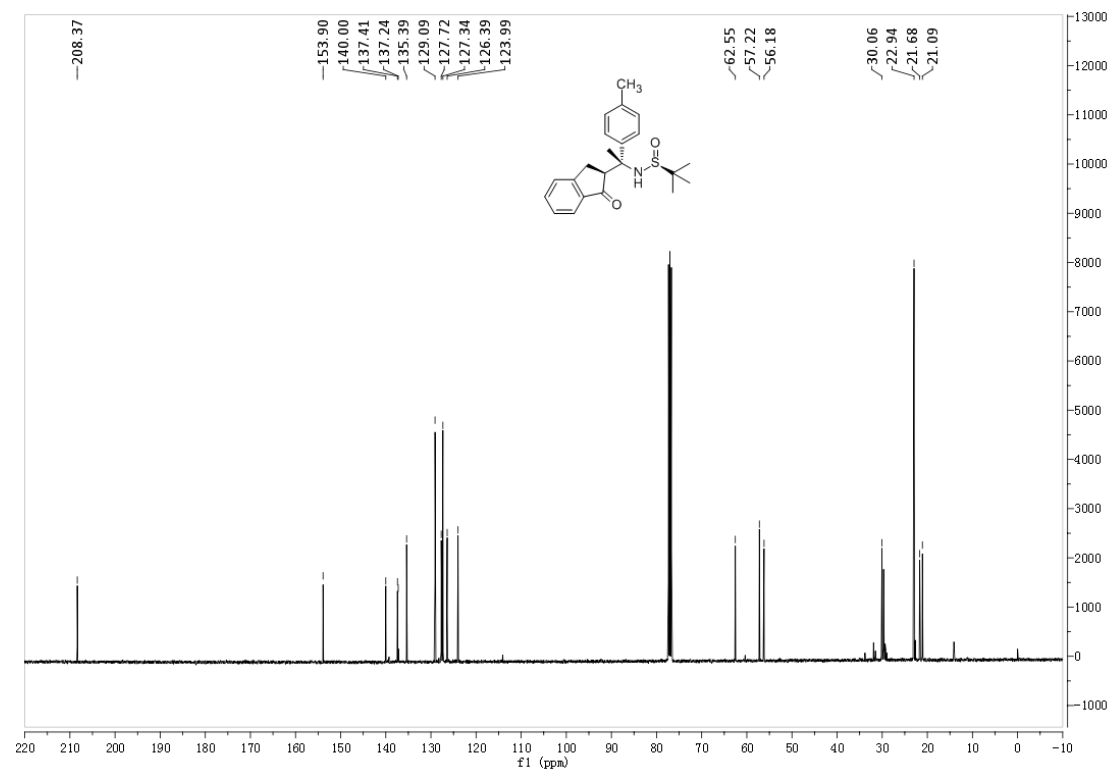
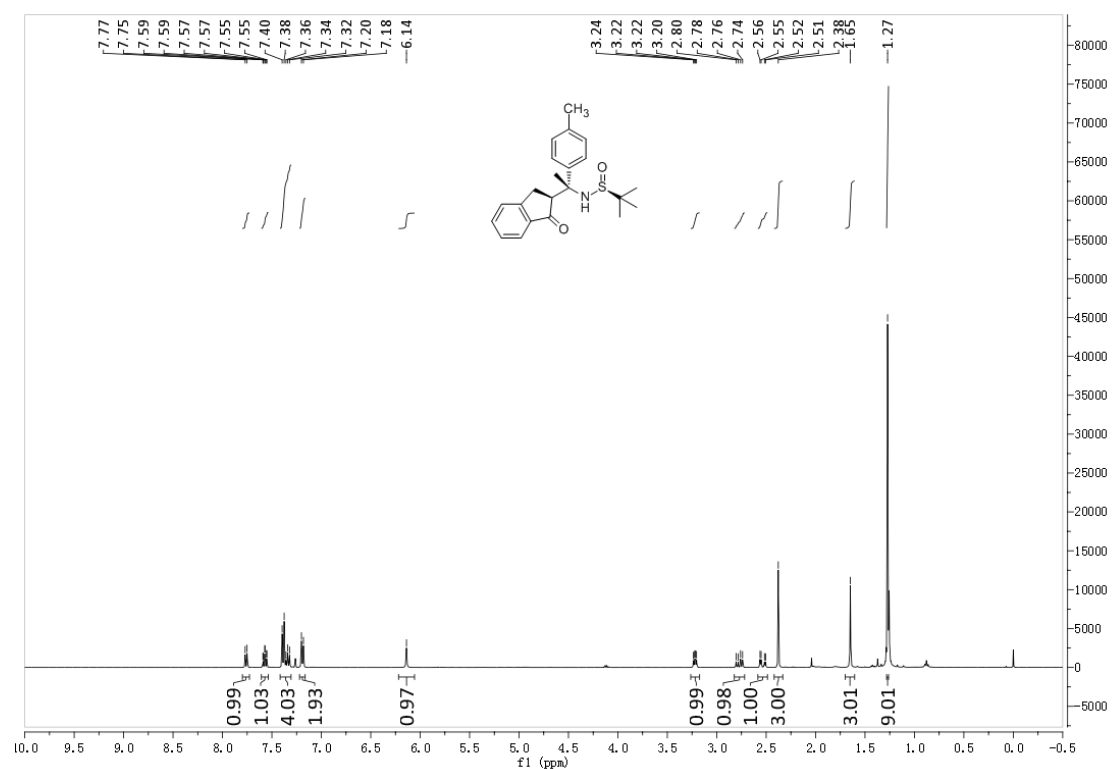
^1H NMR and ^{13}C NMR spectrum of 3a



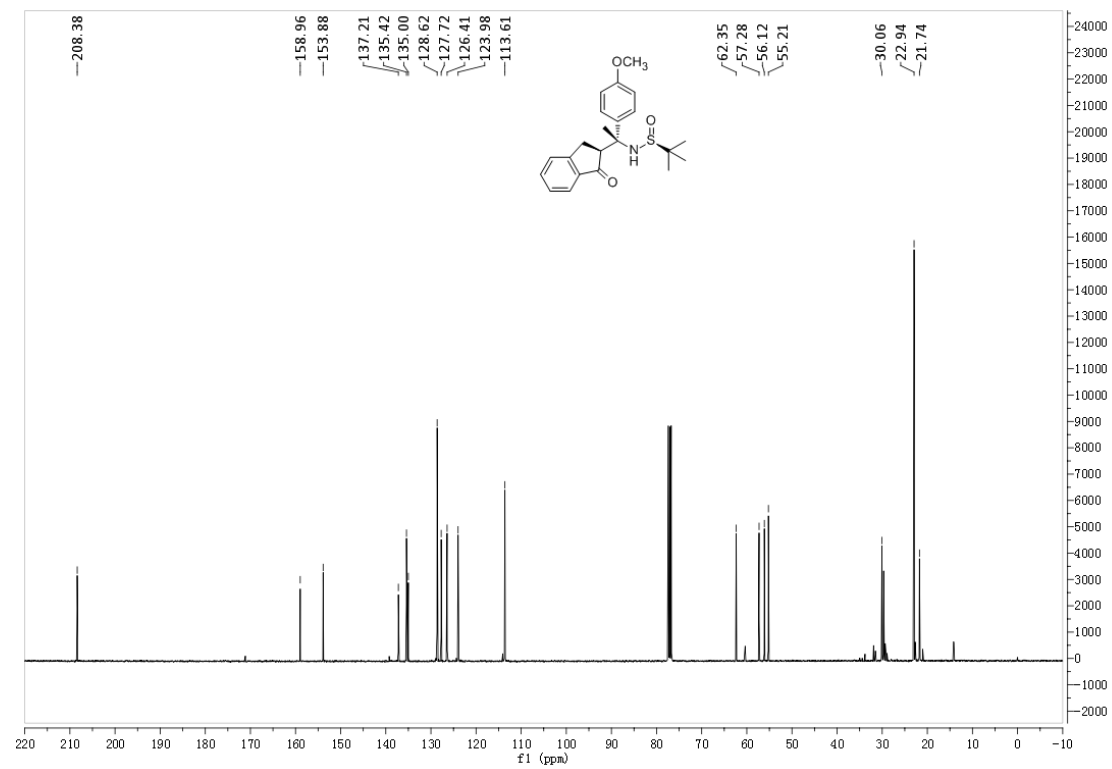
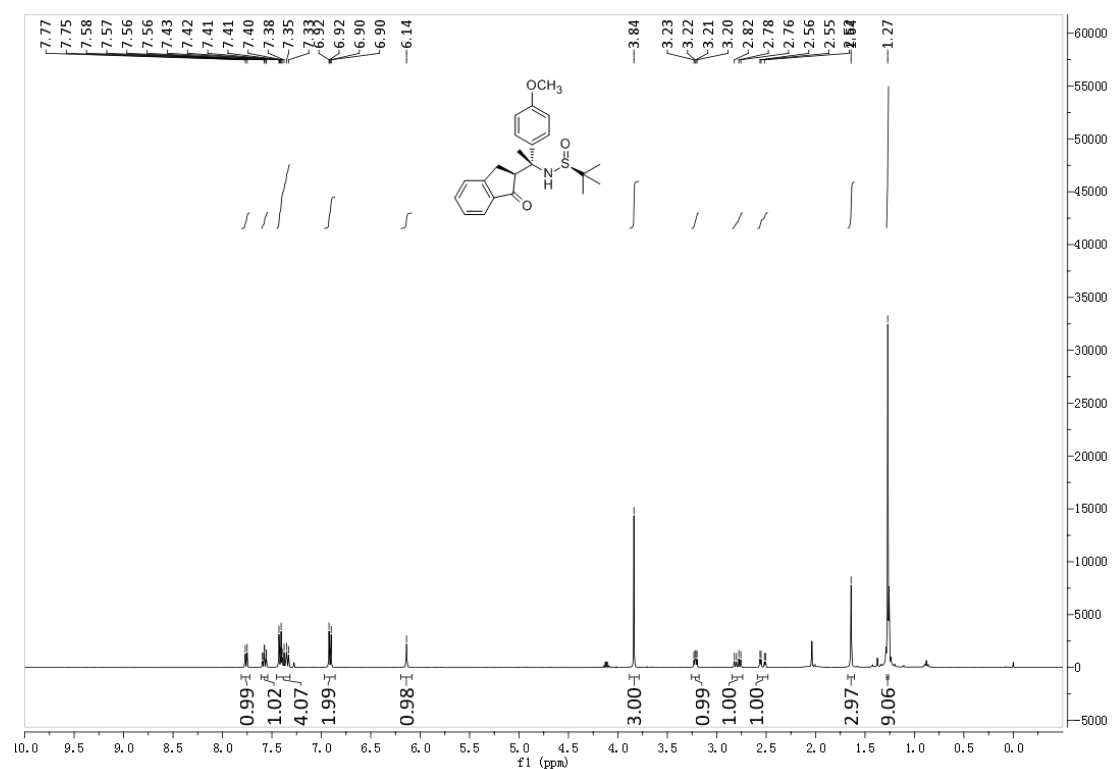
^1H NMR and ^{13}C NMR spectrum of **3a'**



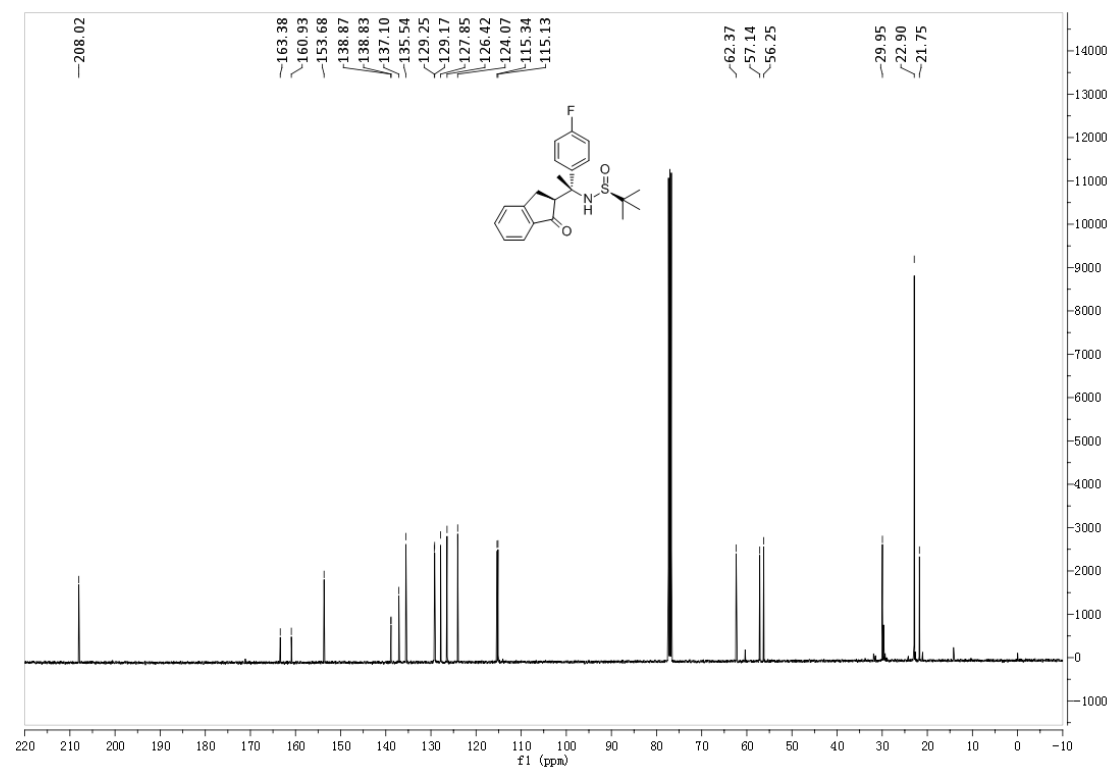
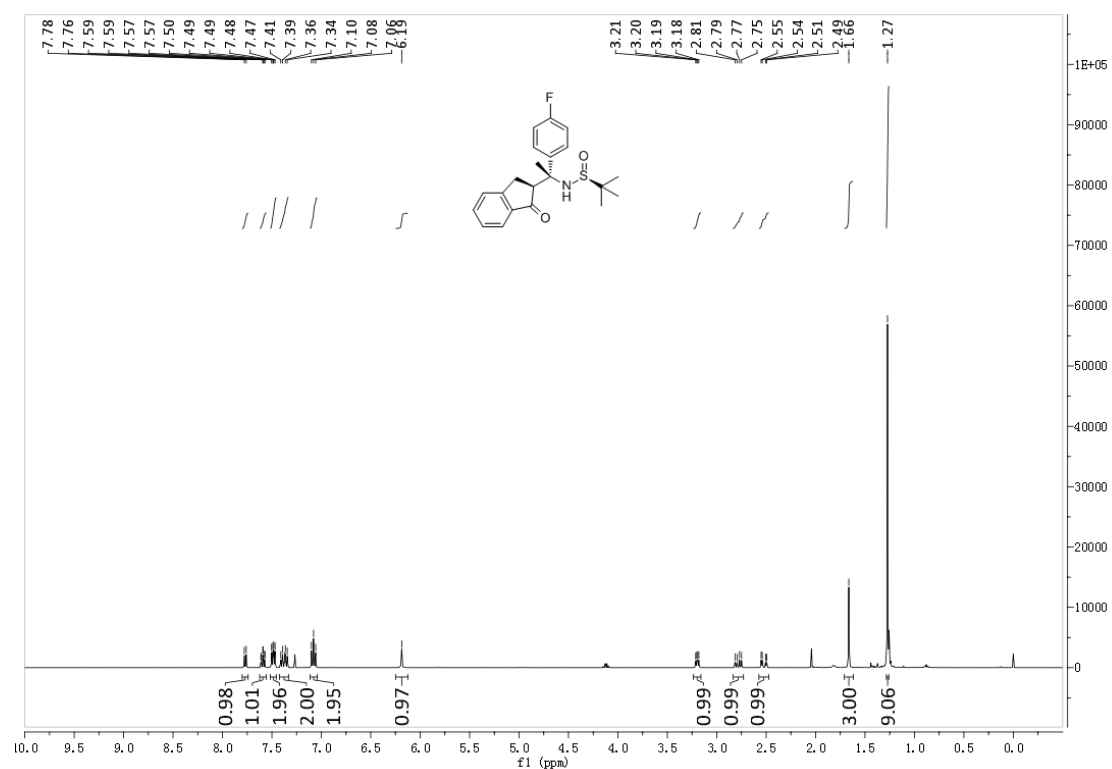
^1H NMR and ^{13}C NMR spectrum of **3b**



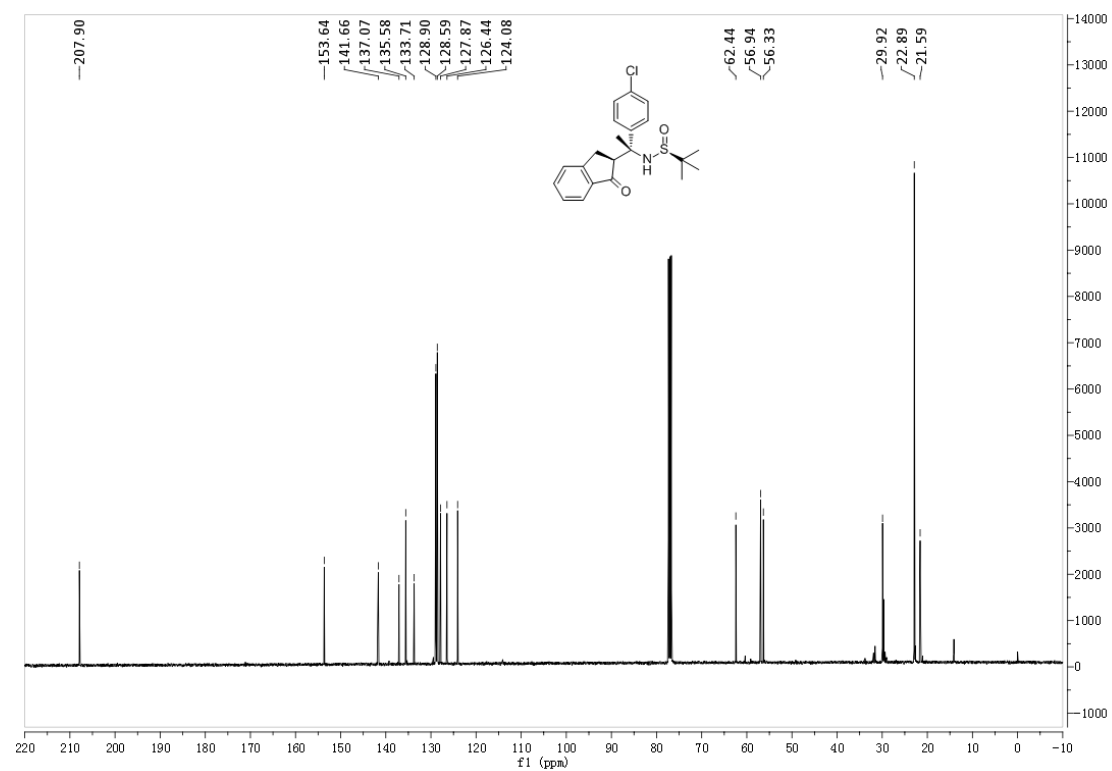
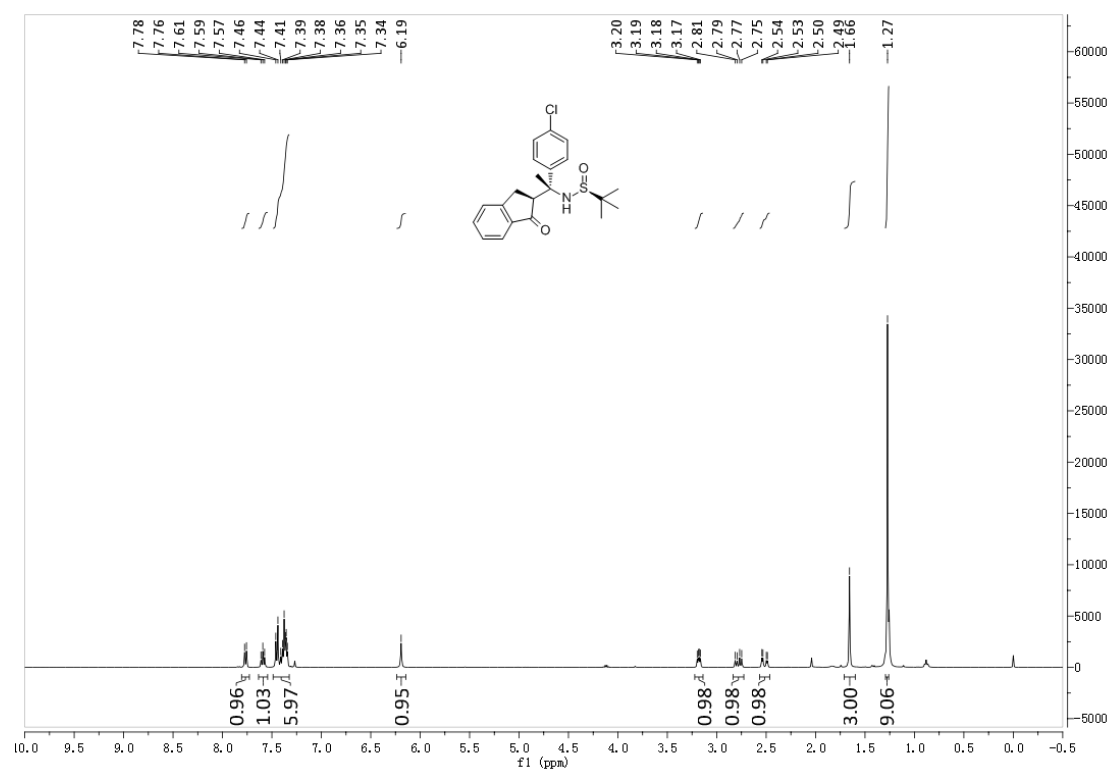
^1H NMR and ^{13}C NMR spectrum of **3c**



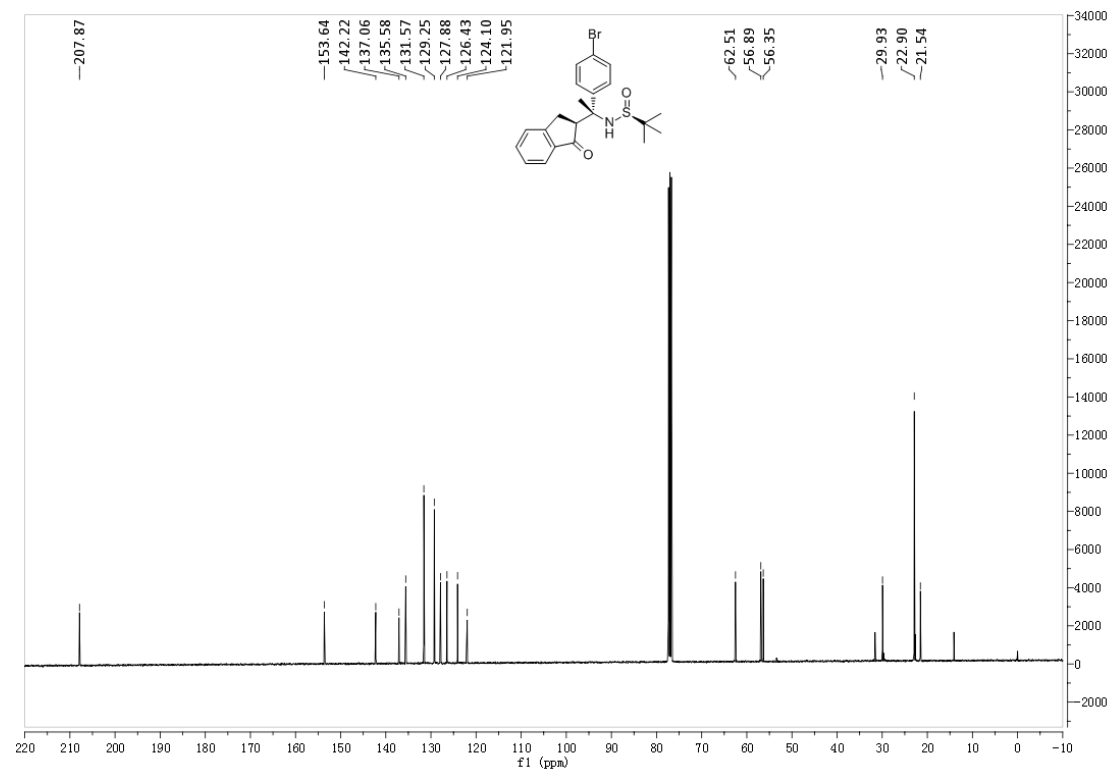
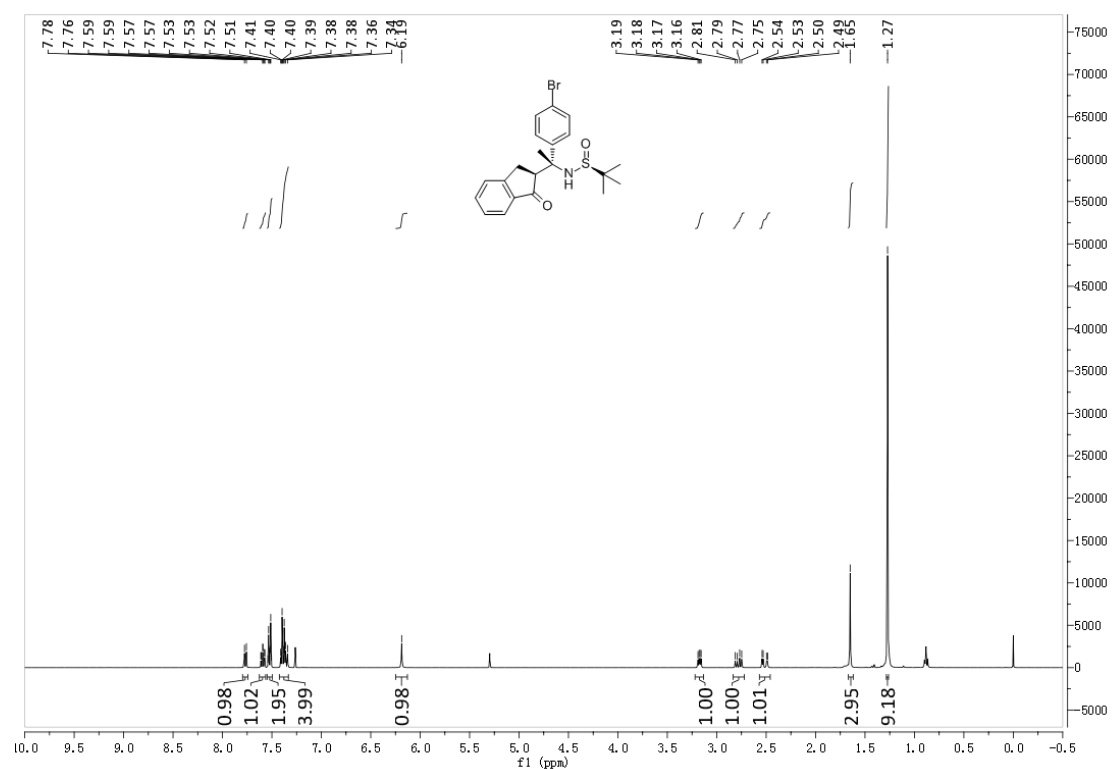
^1H NMR and ^{13}C NMR spectrum of **3d**



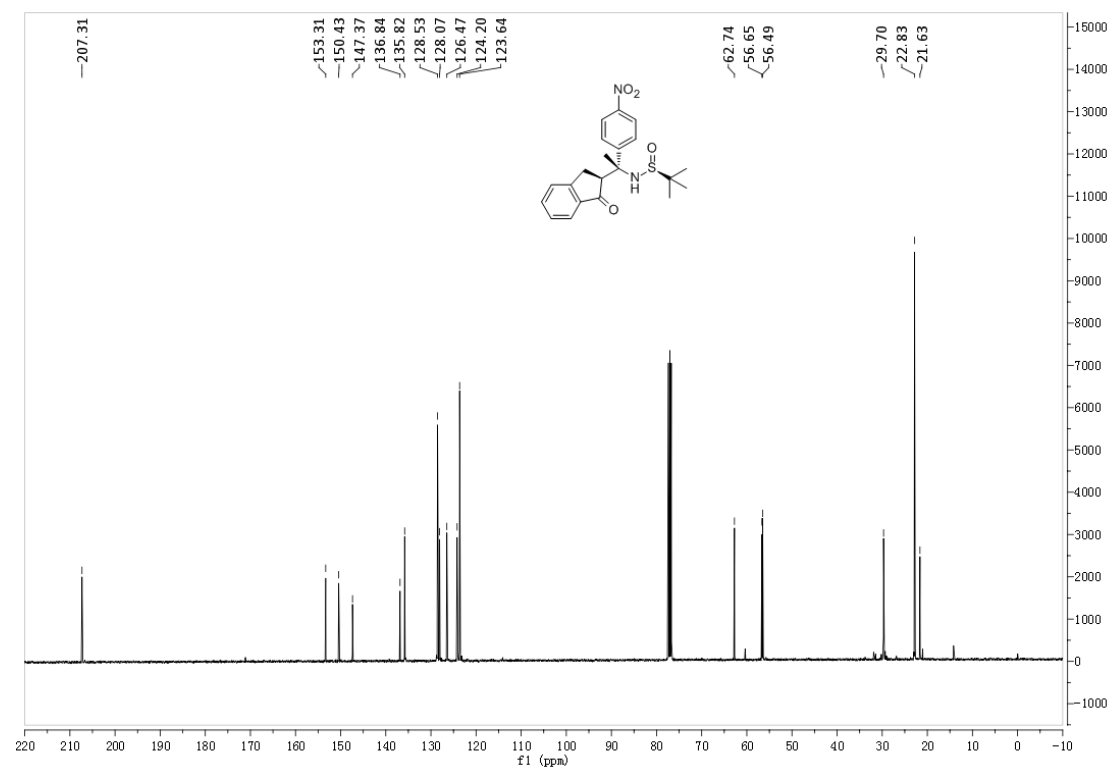
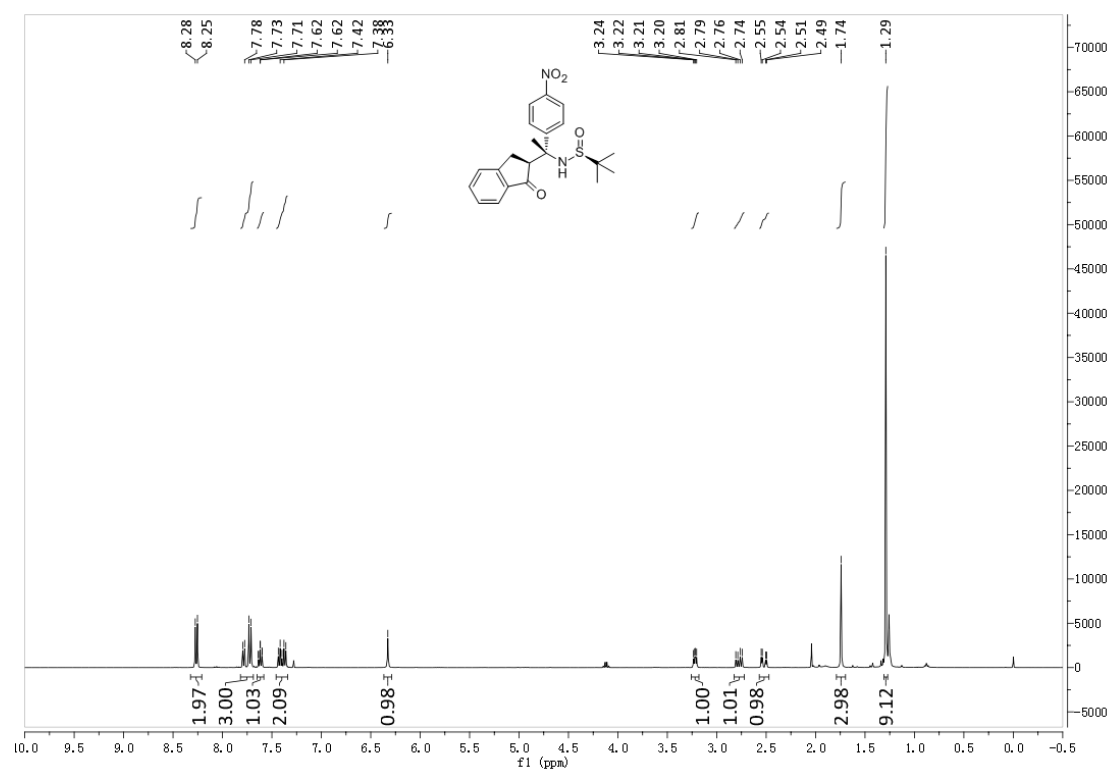
^1H NMR and ^{13}C NMR spectrum of **3e**



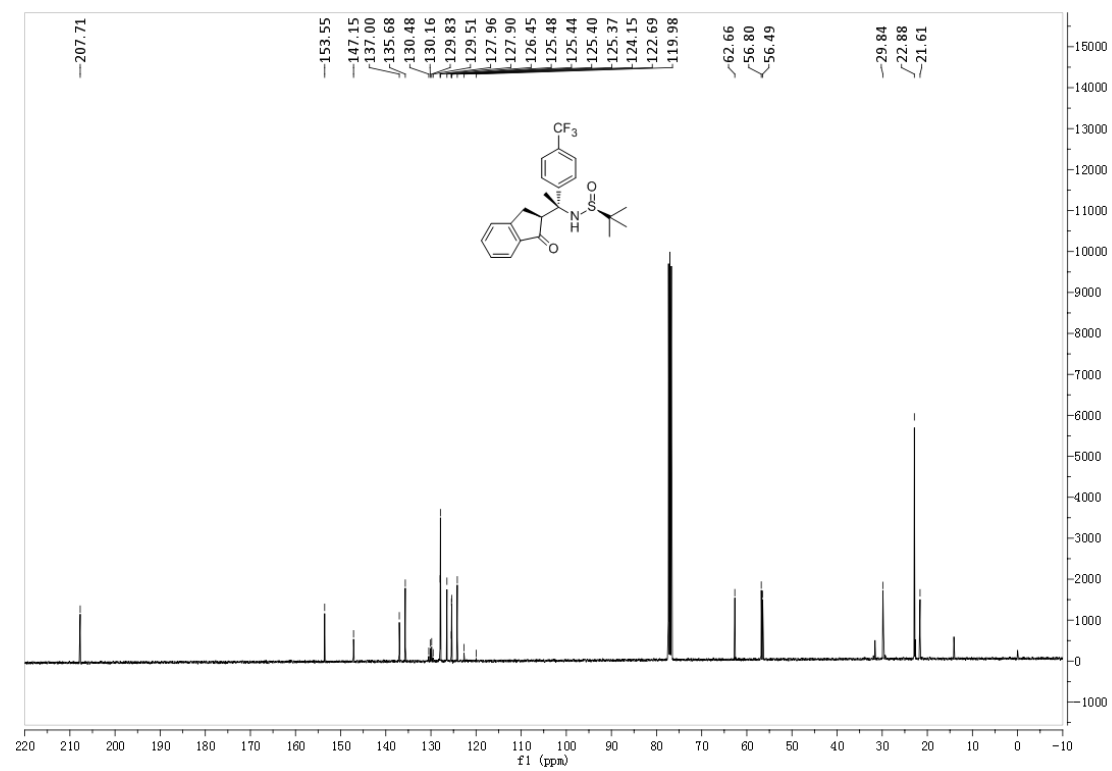
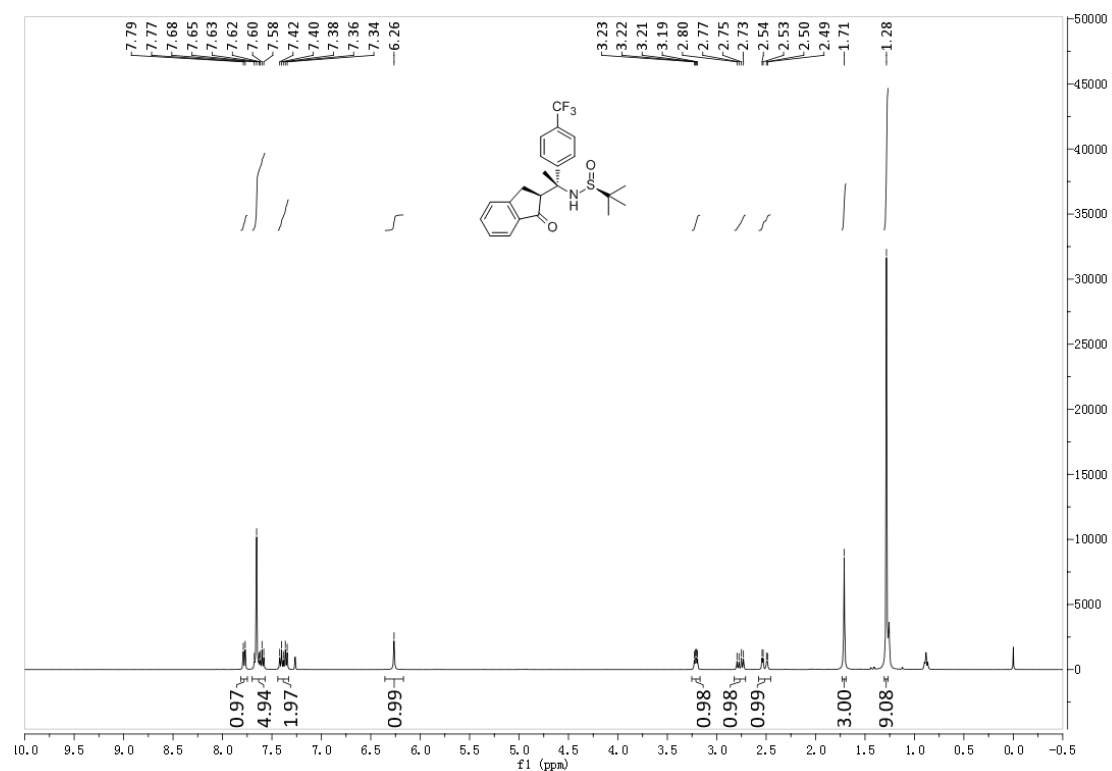
^1H NMR and ^{13}C NMR spectrum of **3f**



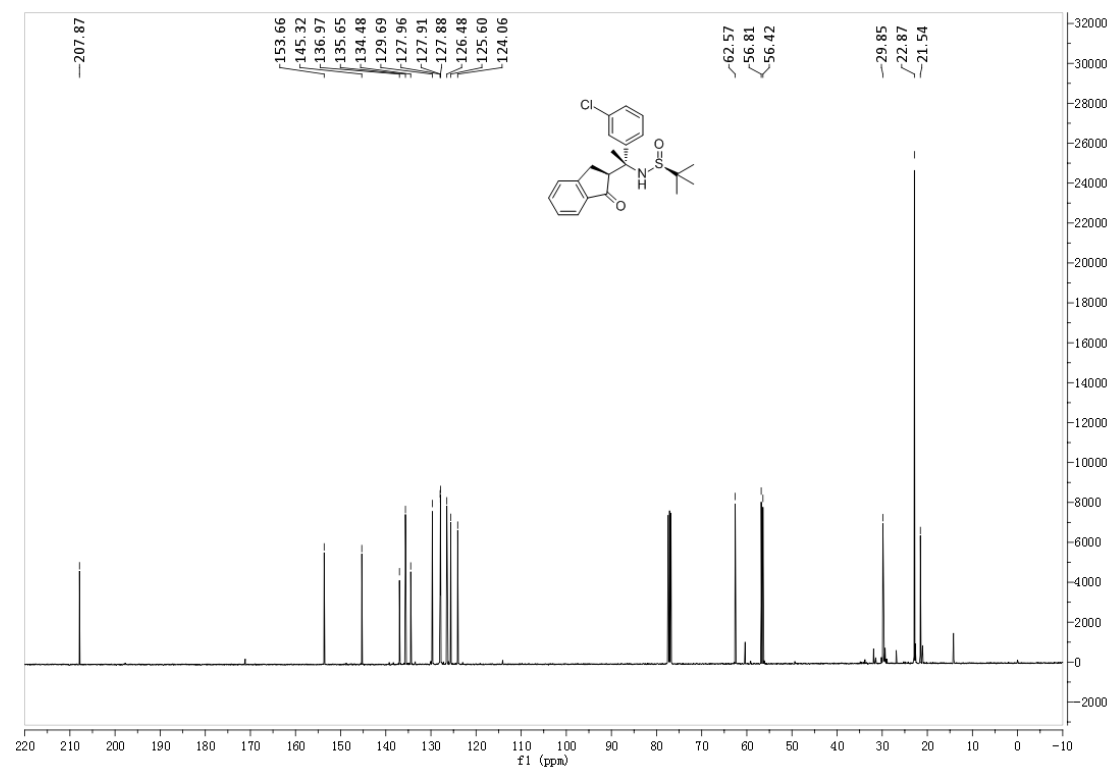
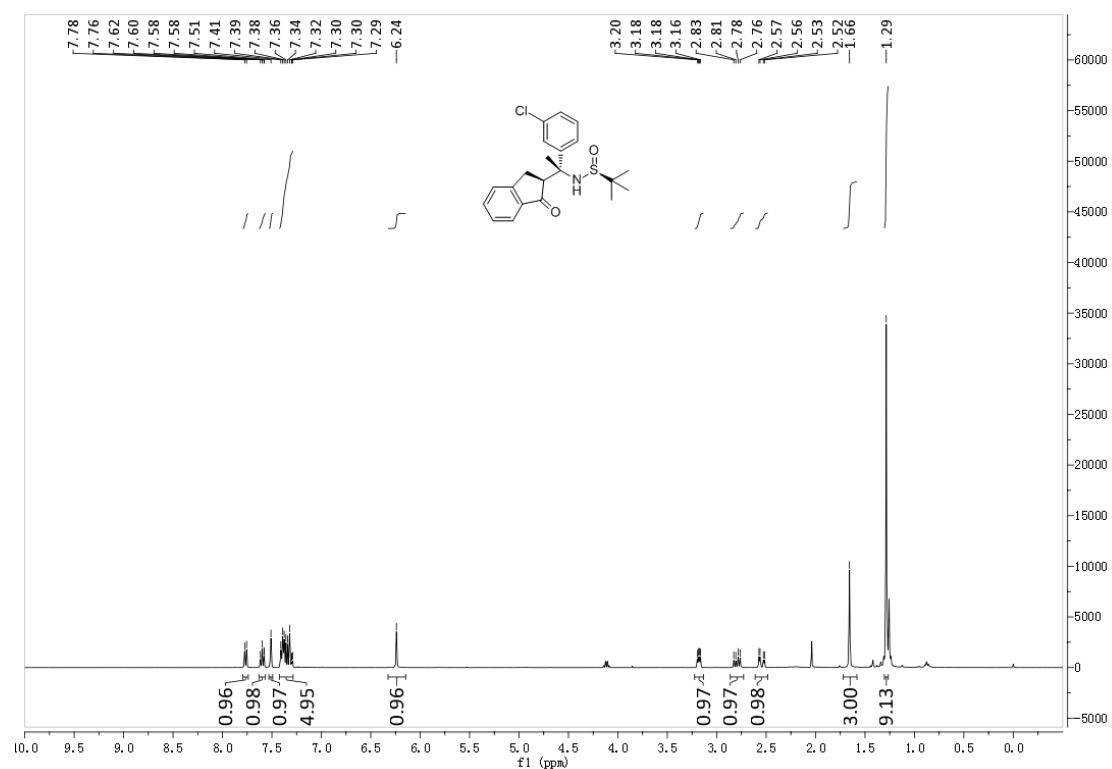
^1H NMR and ^{13}C NMR spectrum of **3g**



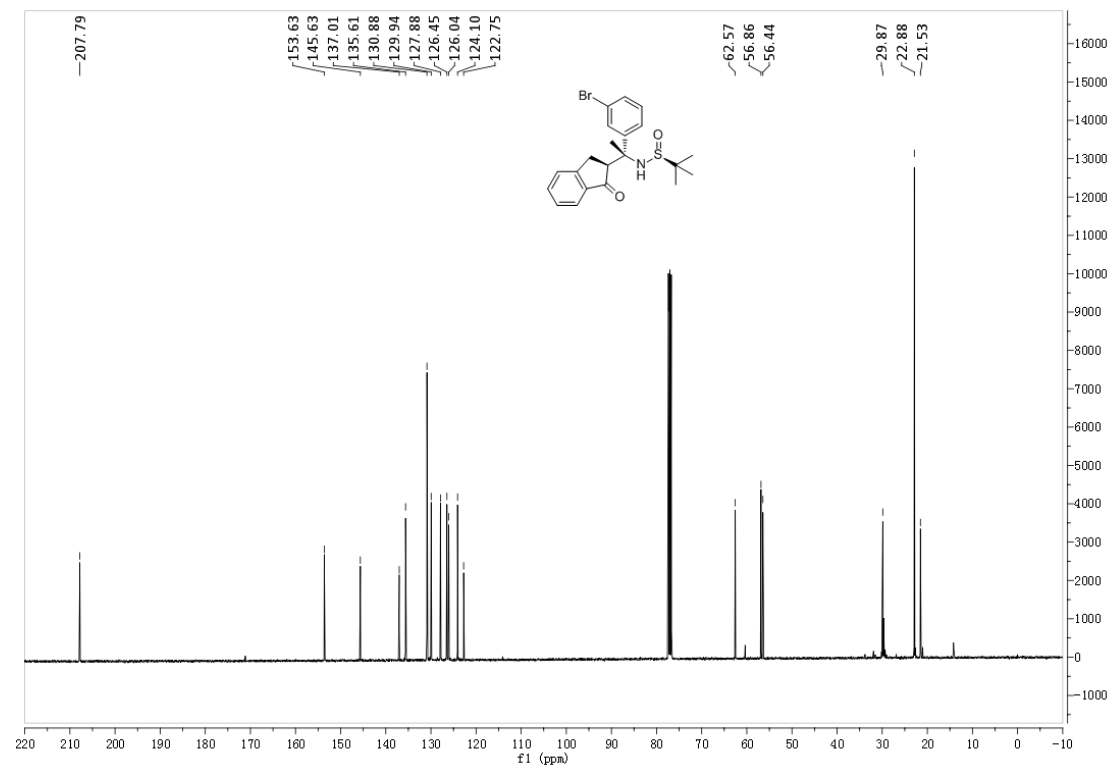
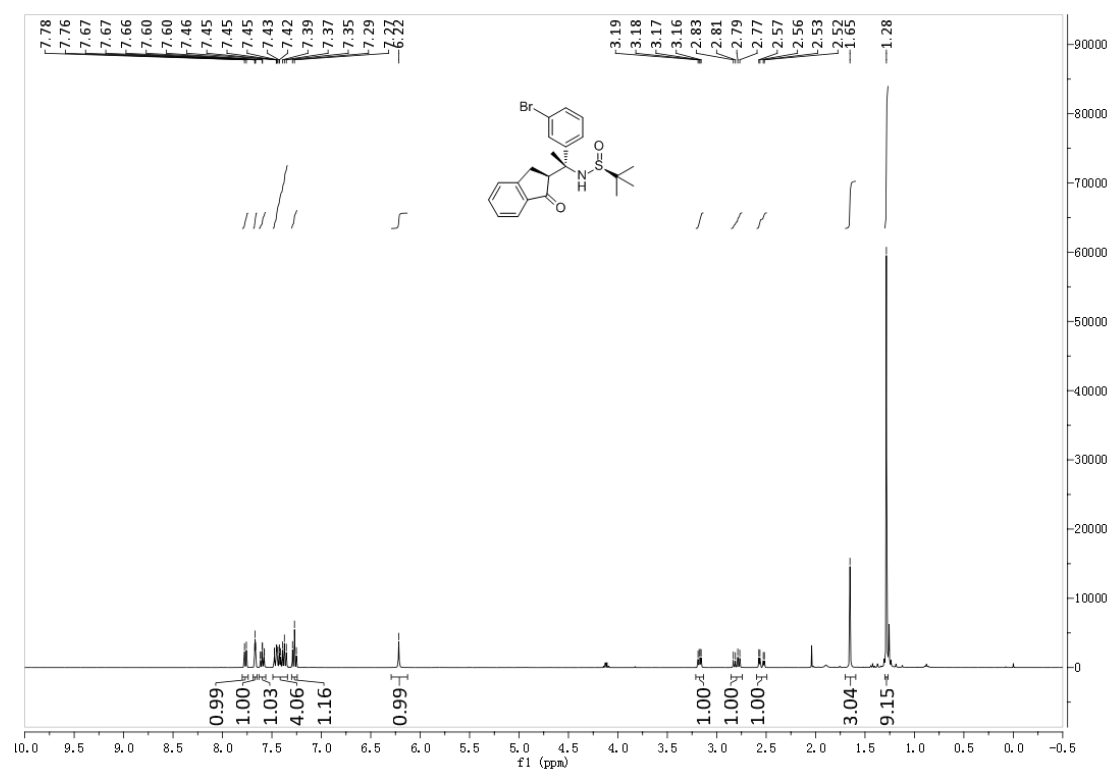
^1H NMR and ^{13}C NMR spectrum of **3h**



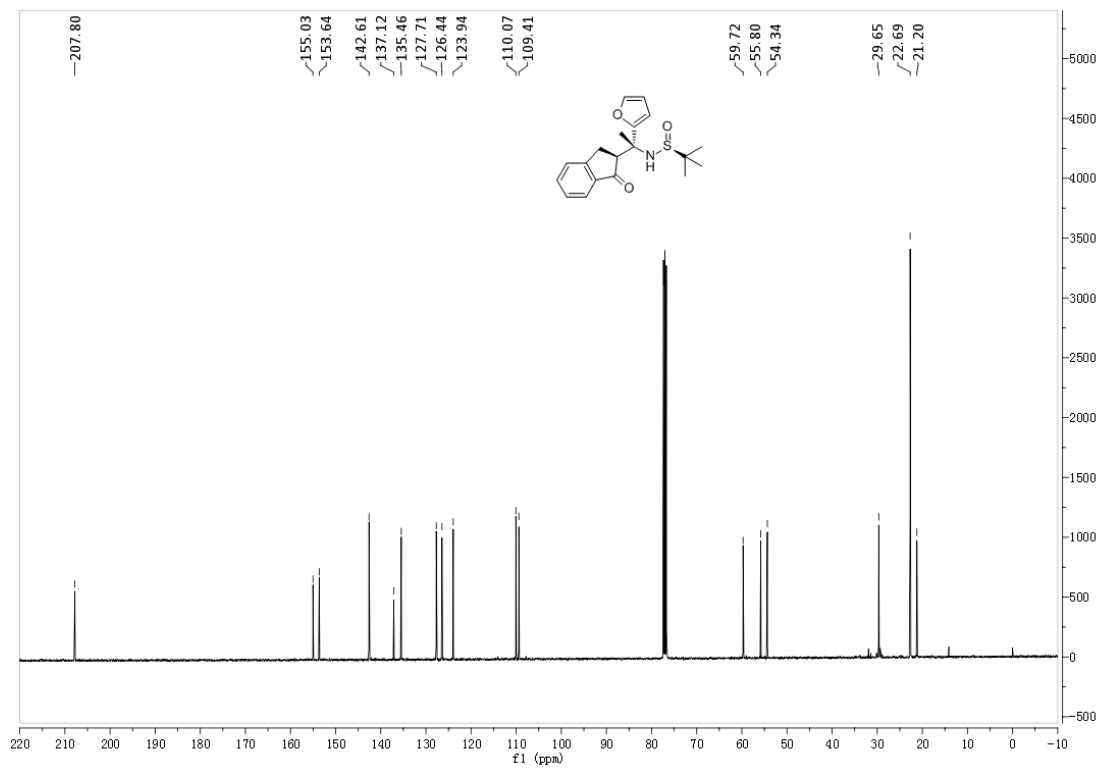
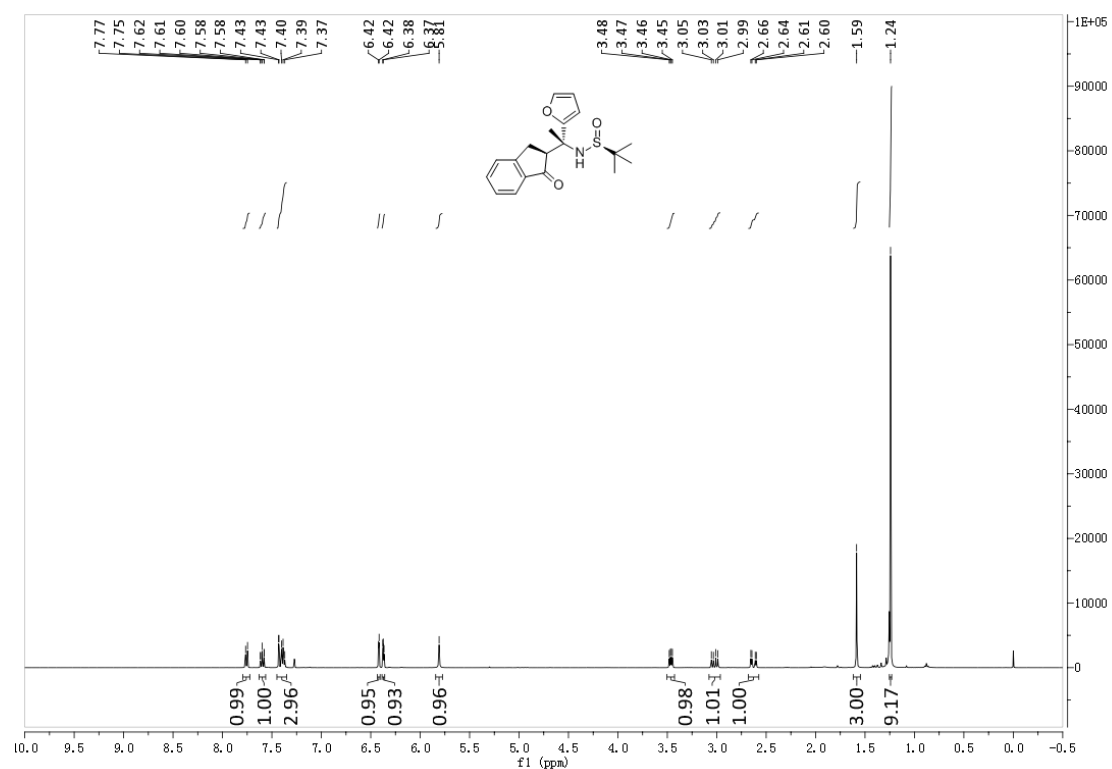
^1H NMR and ^{13}C NMR spectrum of **3i**



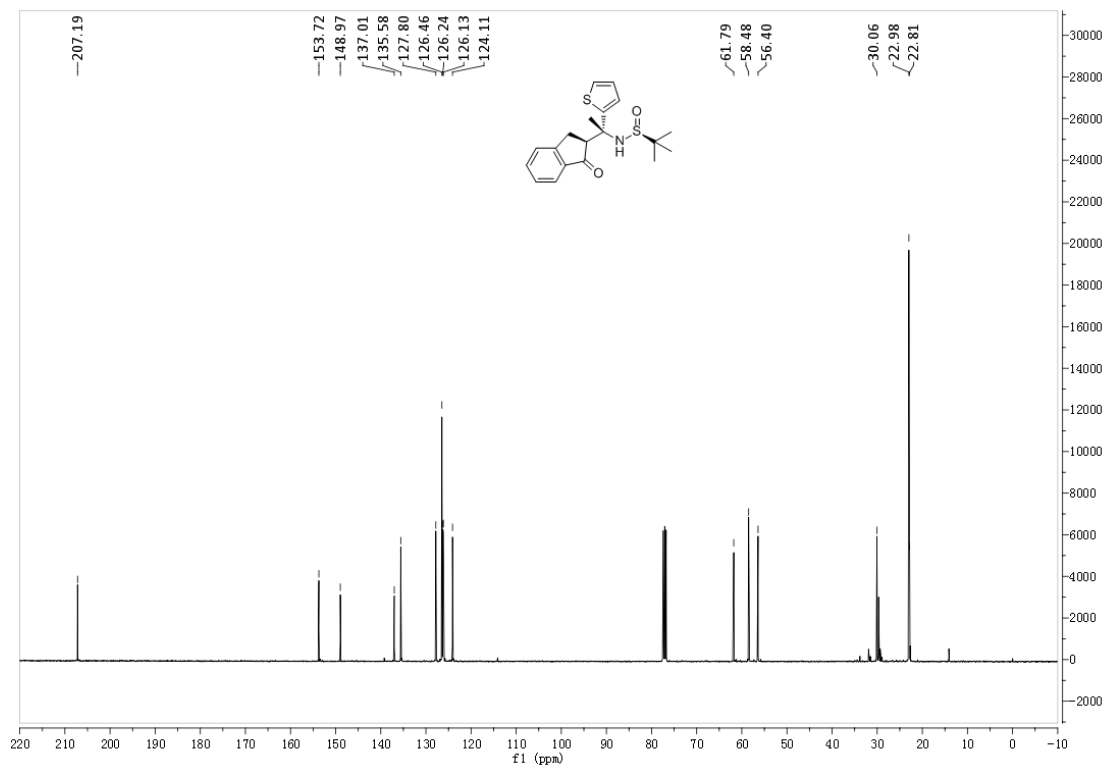
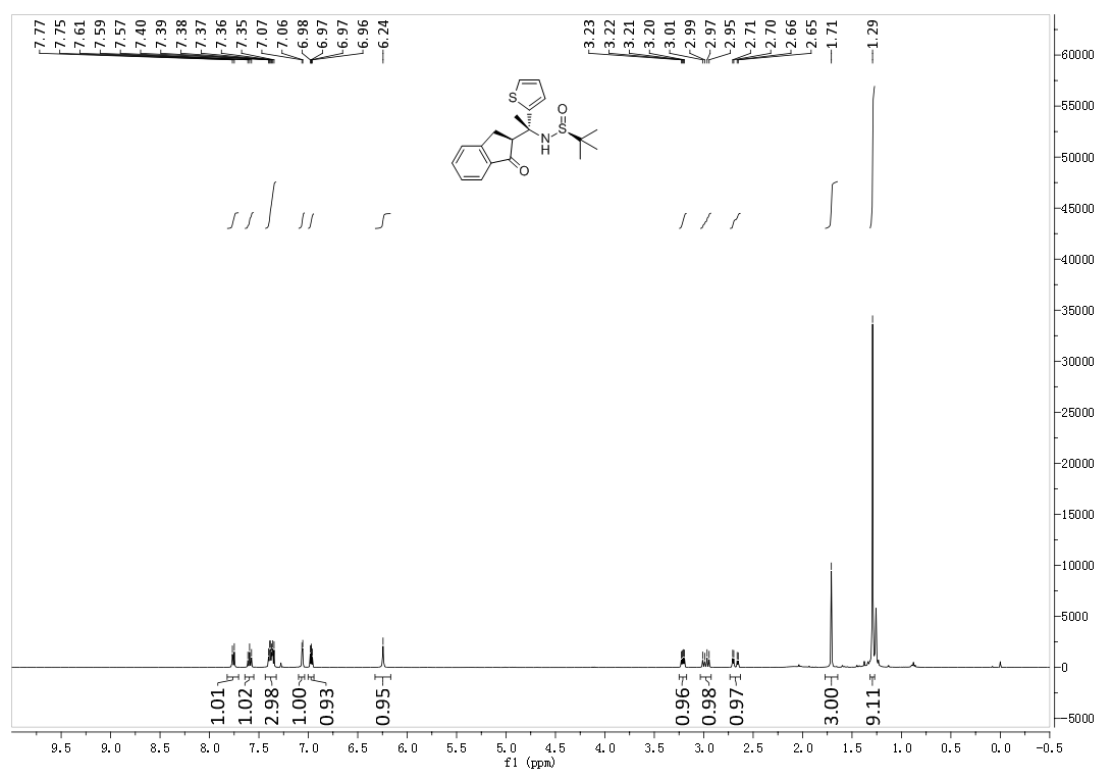
^1H NMR and ^{13}C NMR spectrum of **3j**



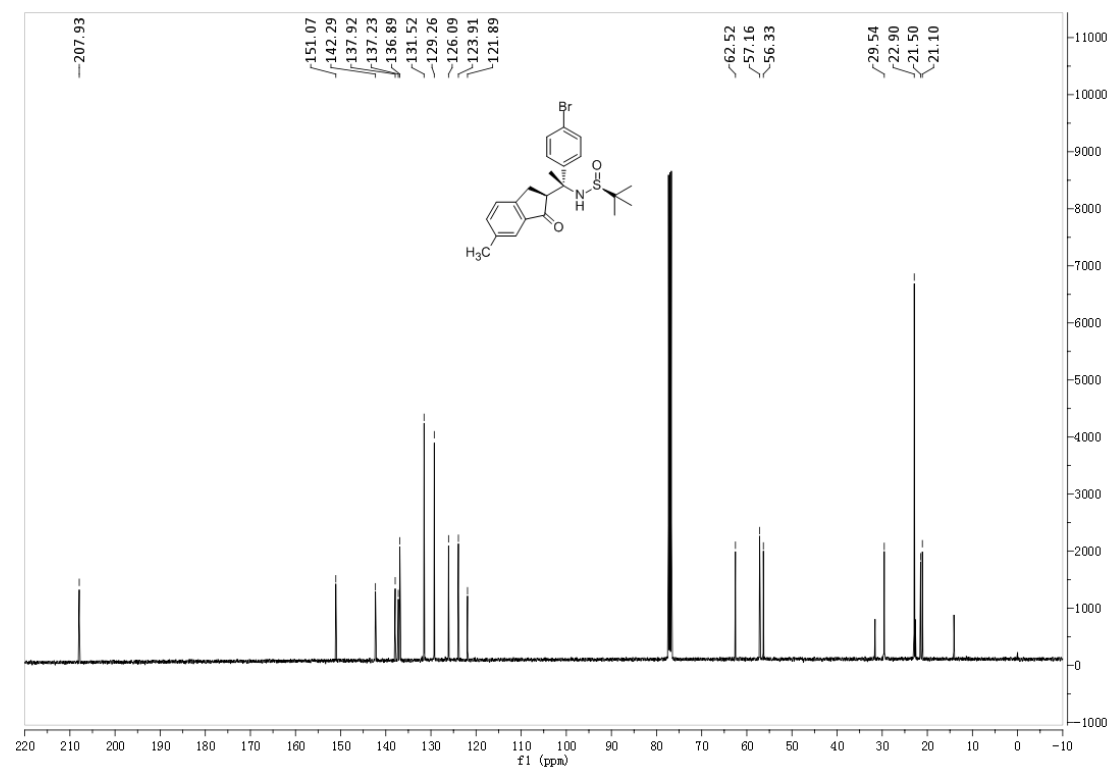
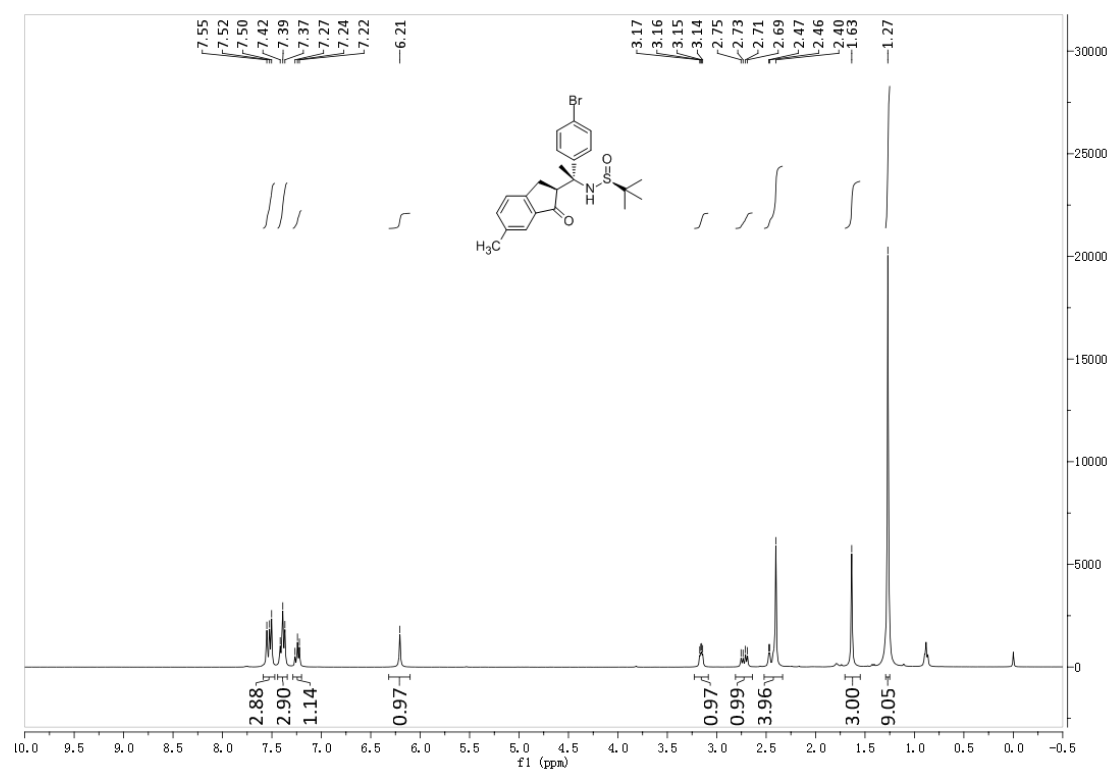
^1H NMR and ^{13}C NMR spectrum of **3k**



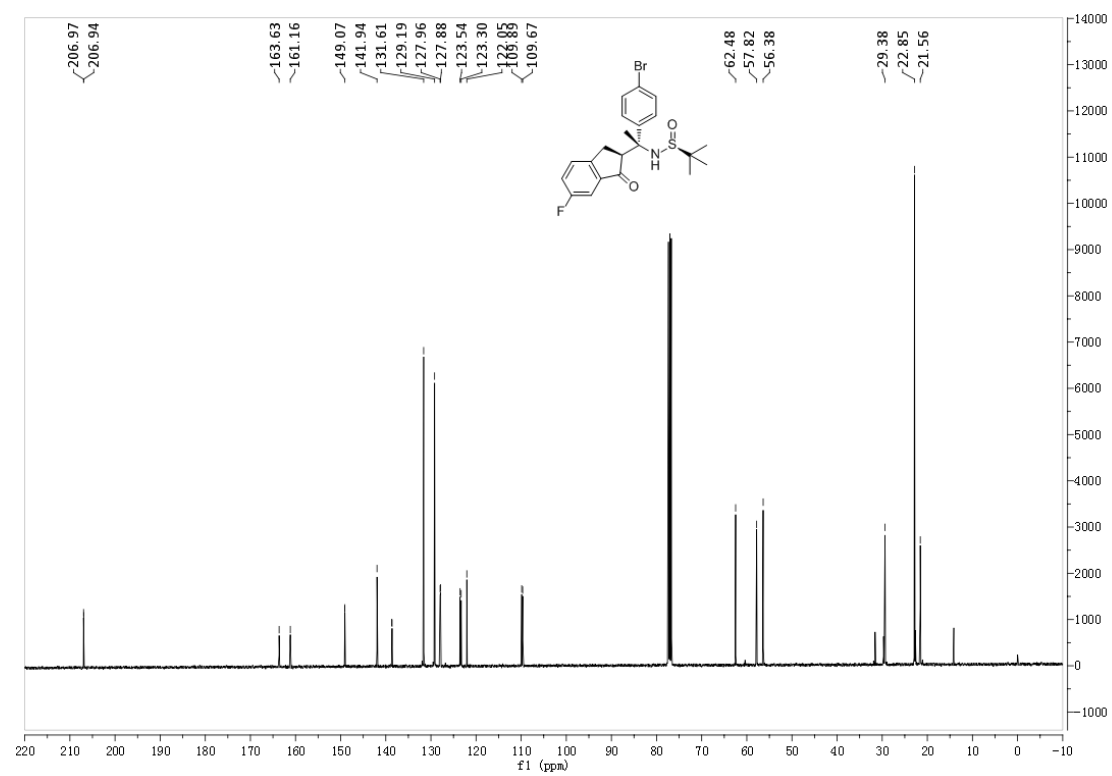
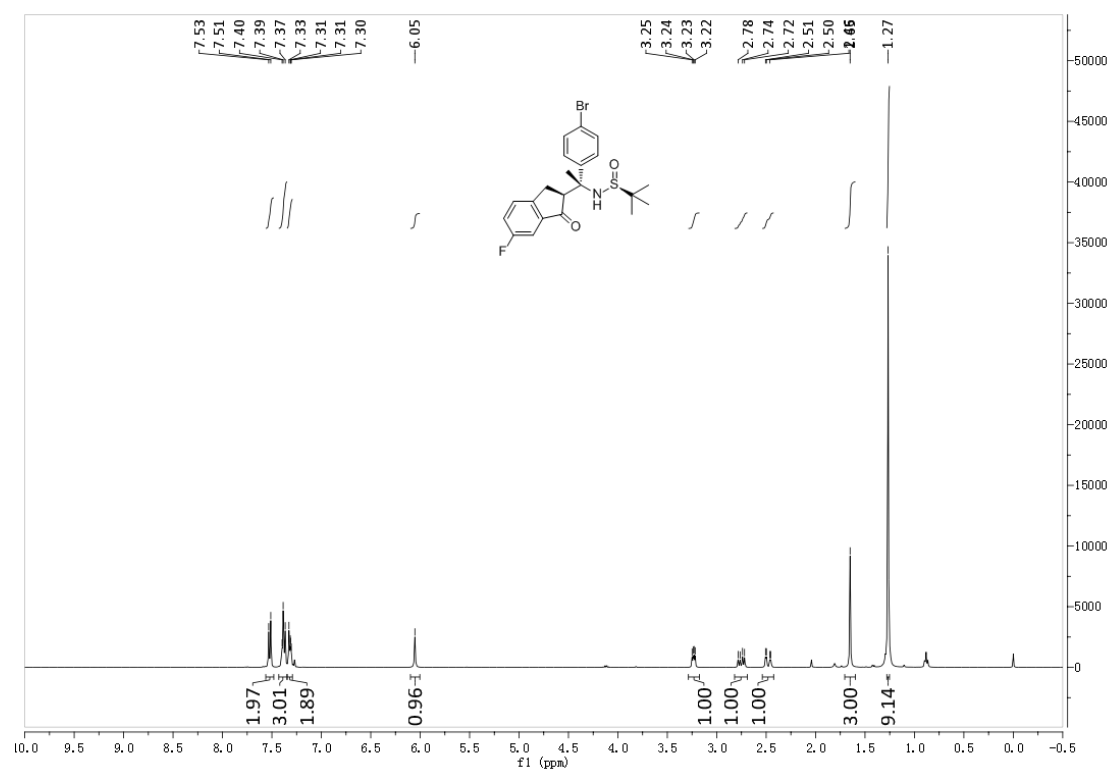
^1H NMR and ^{13}C NMR spectrum of **31**



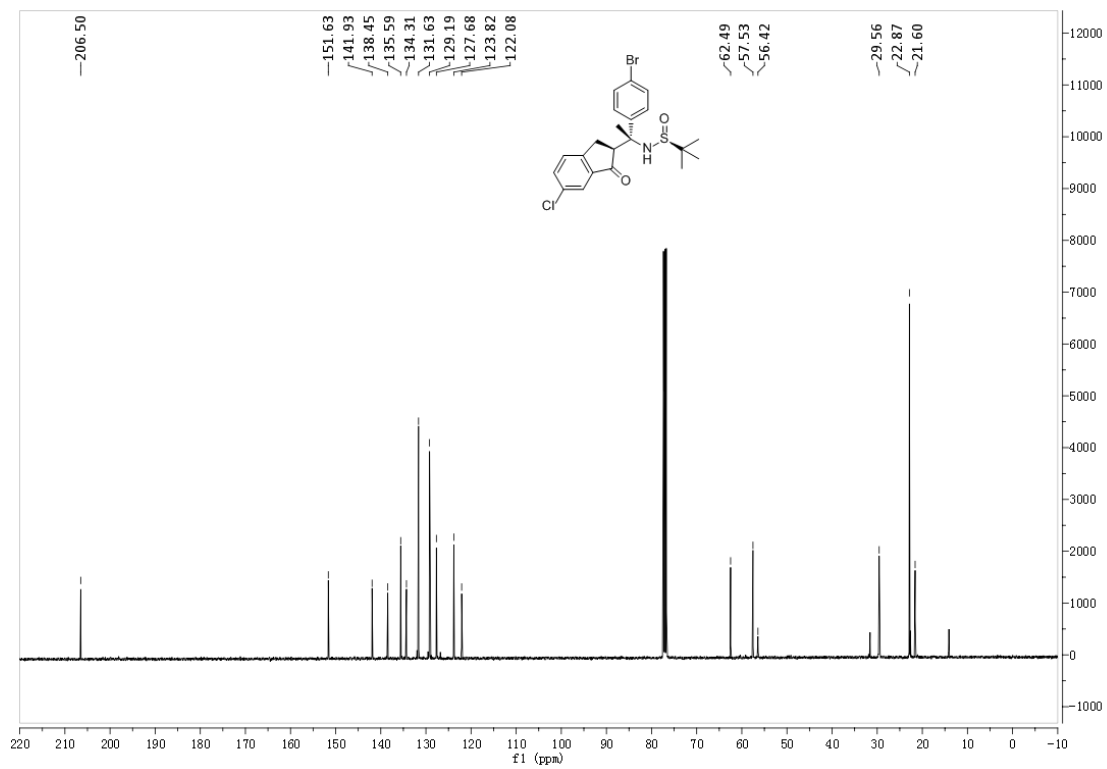
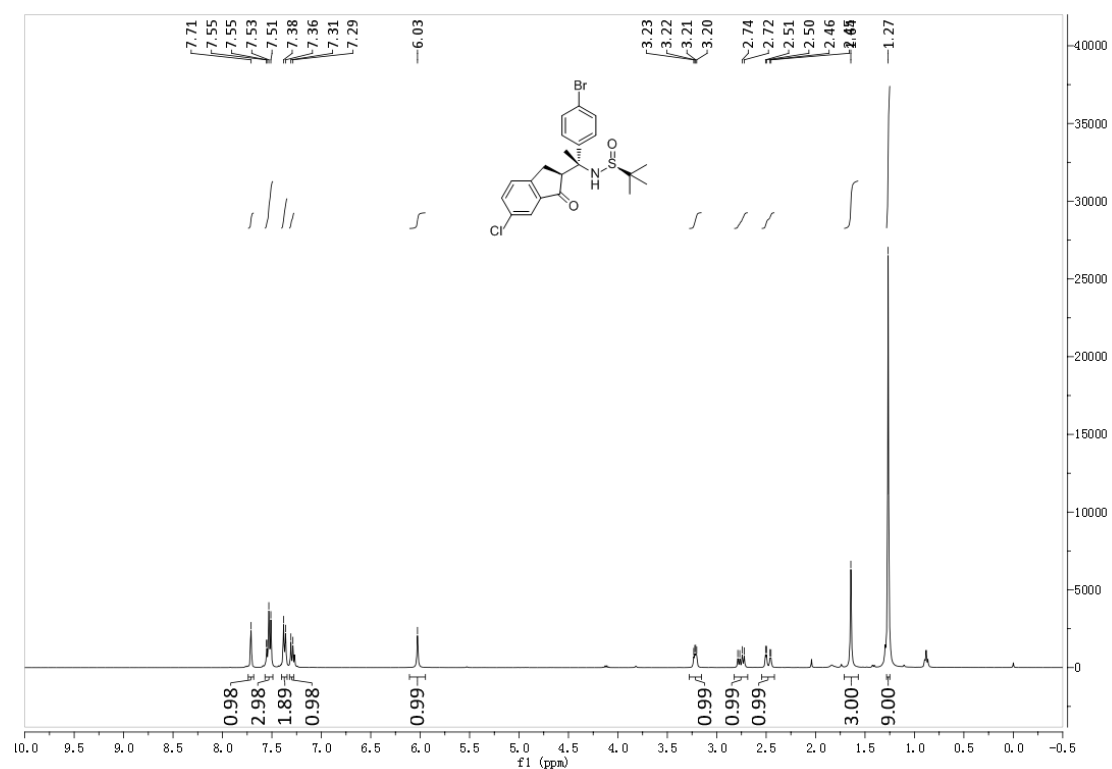
^1H NMR and ^{13}C NMR spectrum of **3m**



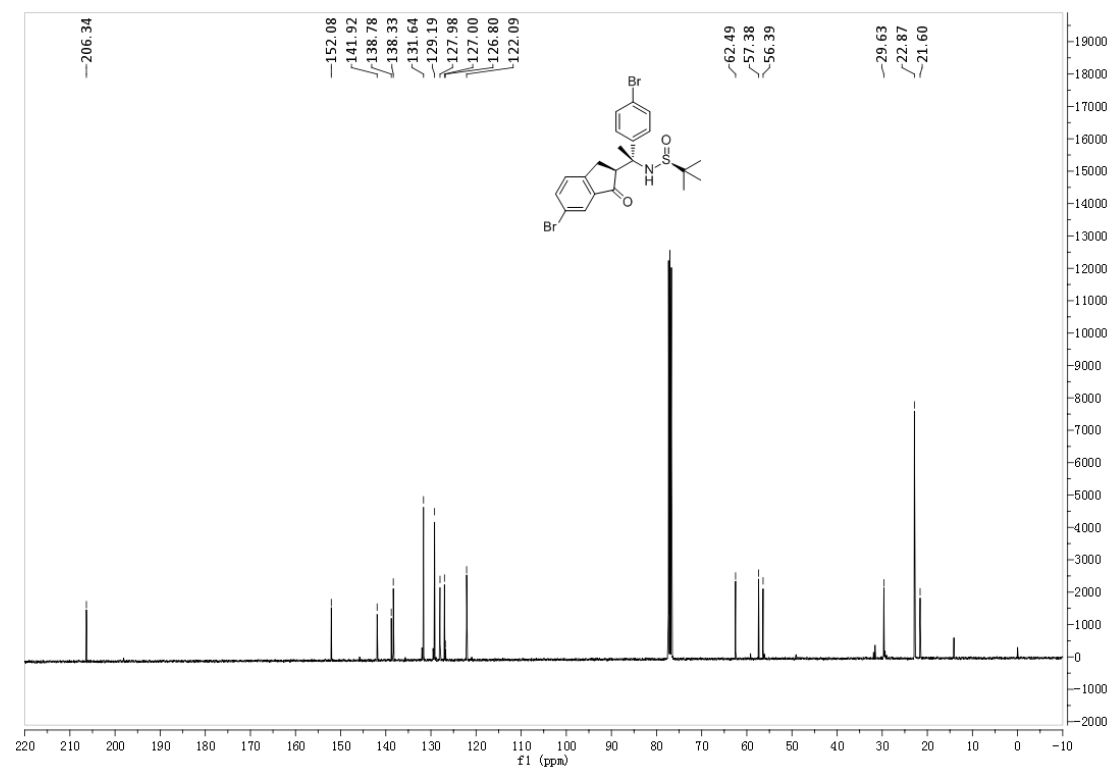
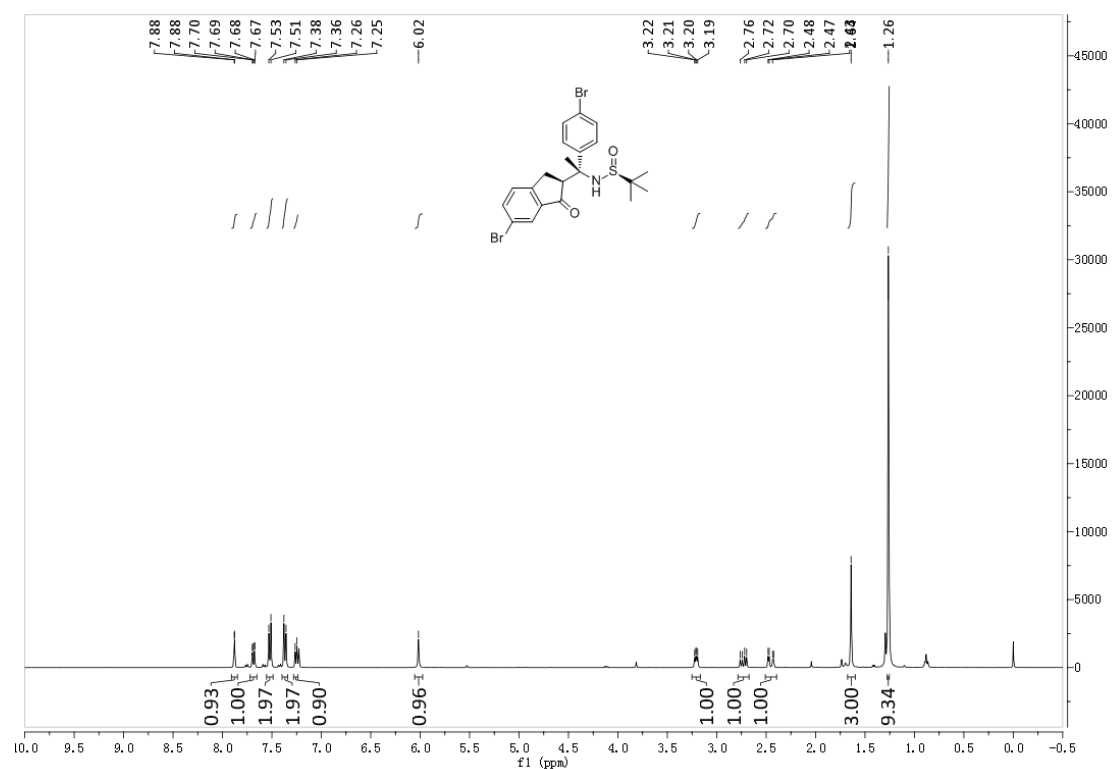
^1H NMR and ^{13}C NMR spectrum of **3n**



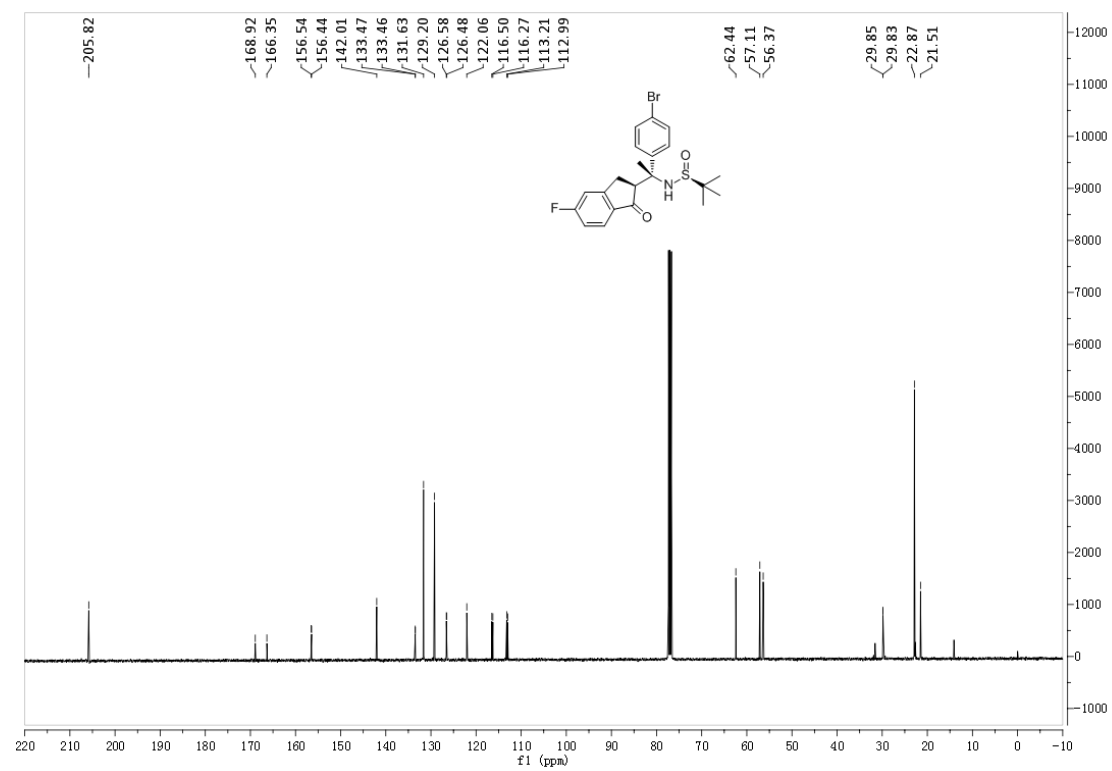
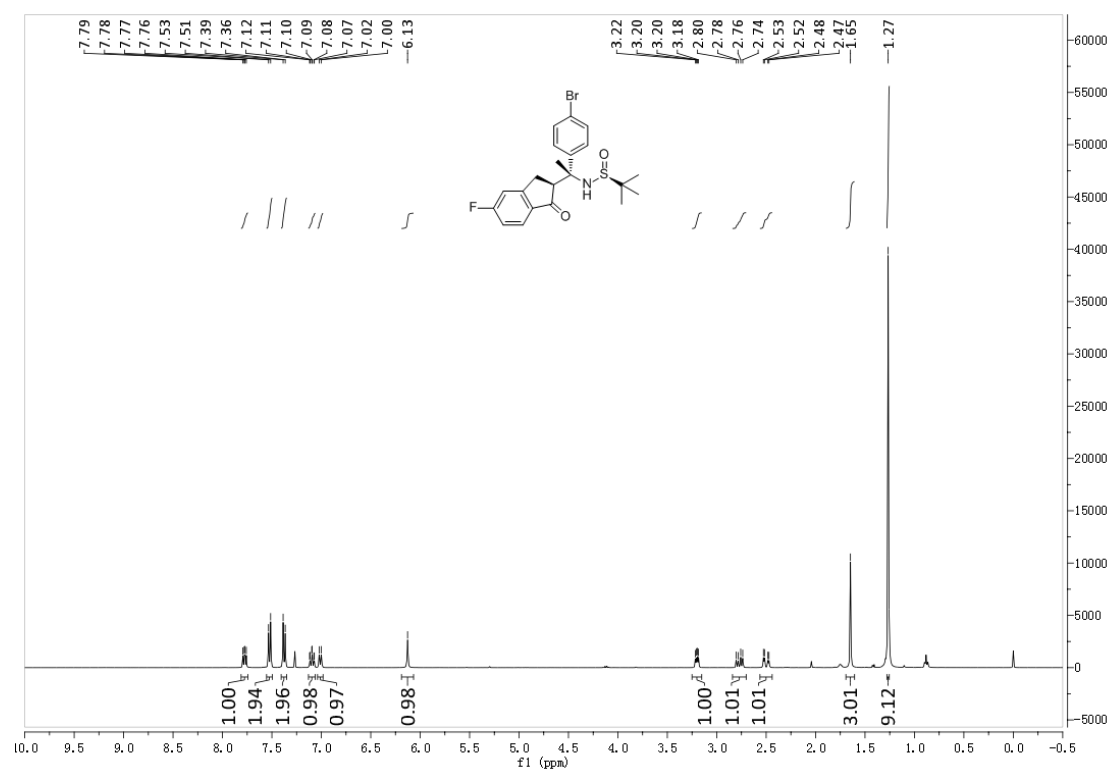
^1H NMR and ^{13}C NMR spectrum of **30**



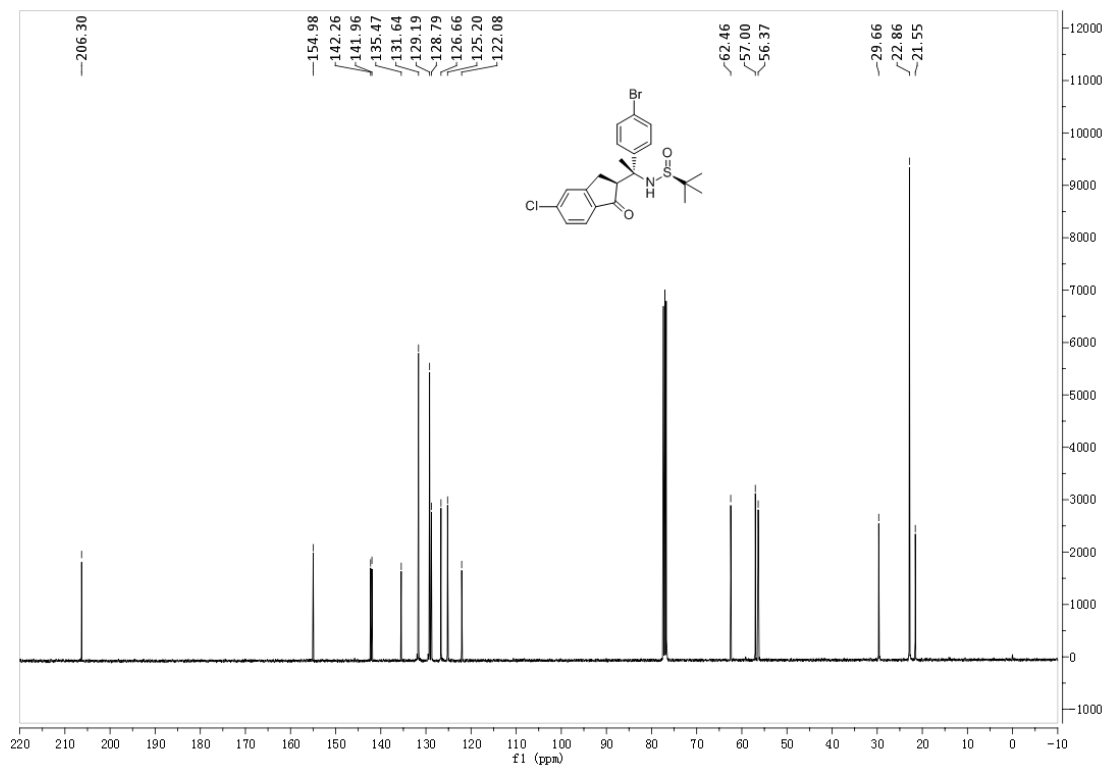
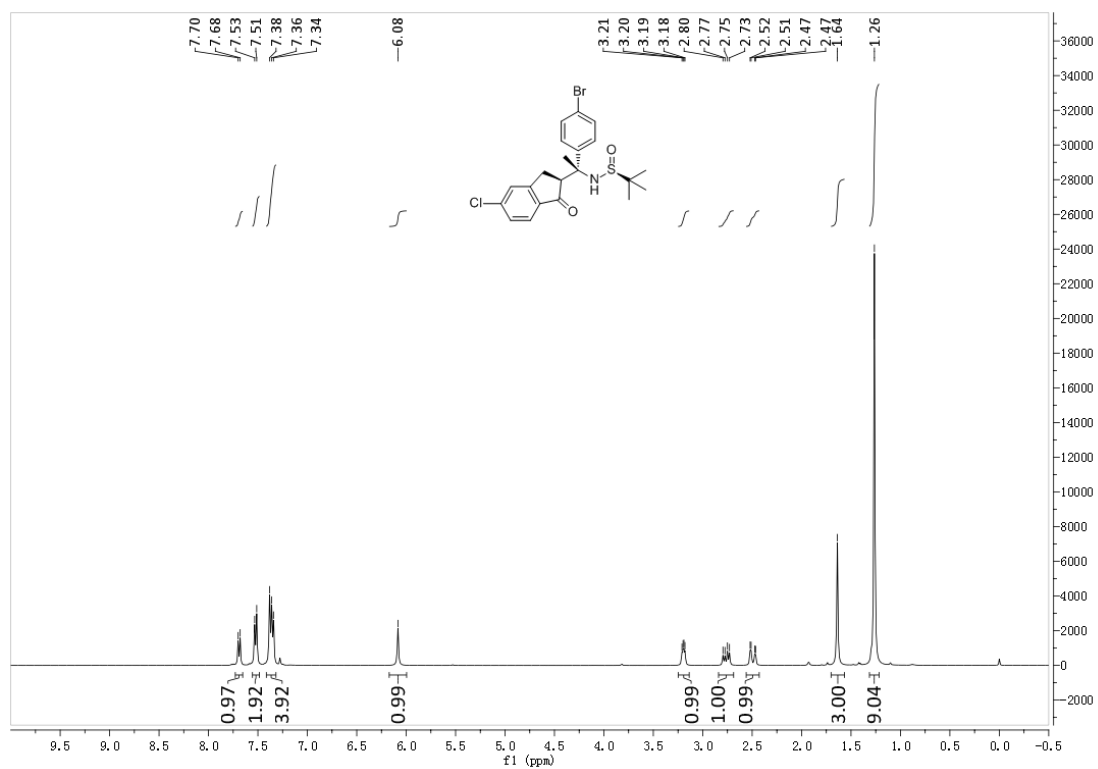
^1H NMR and ^{13}C NMR spectrum of **3p**



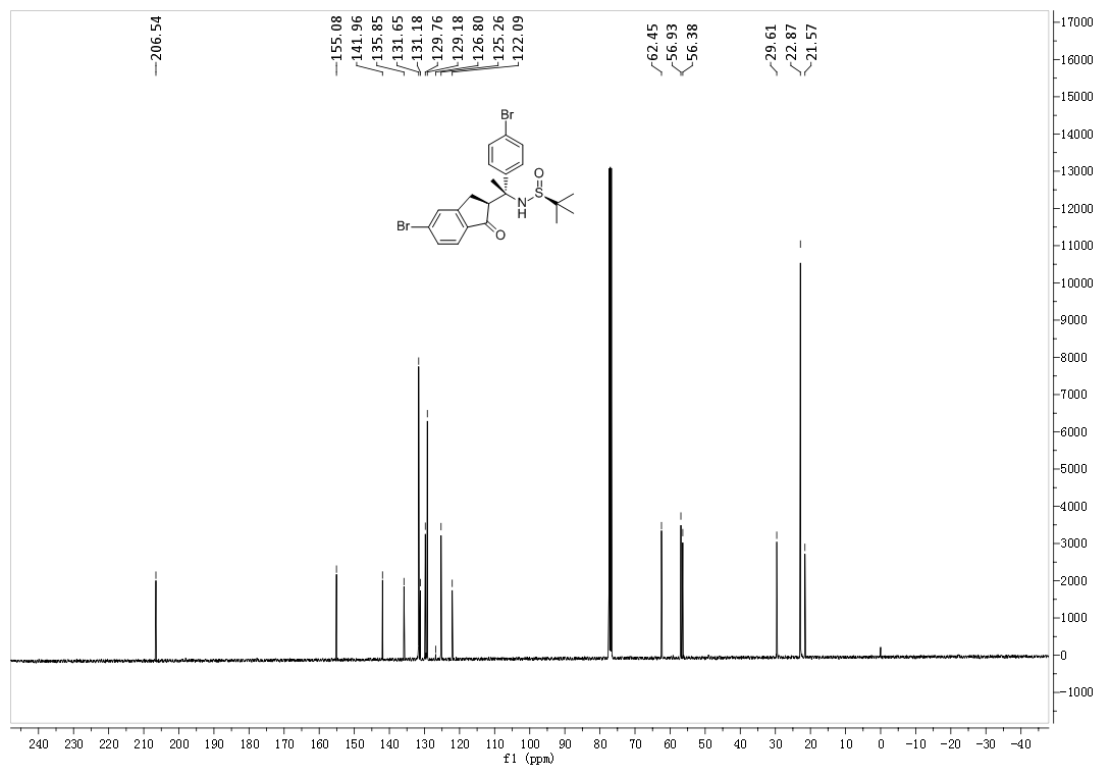
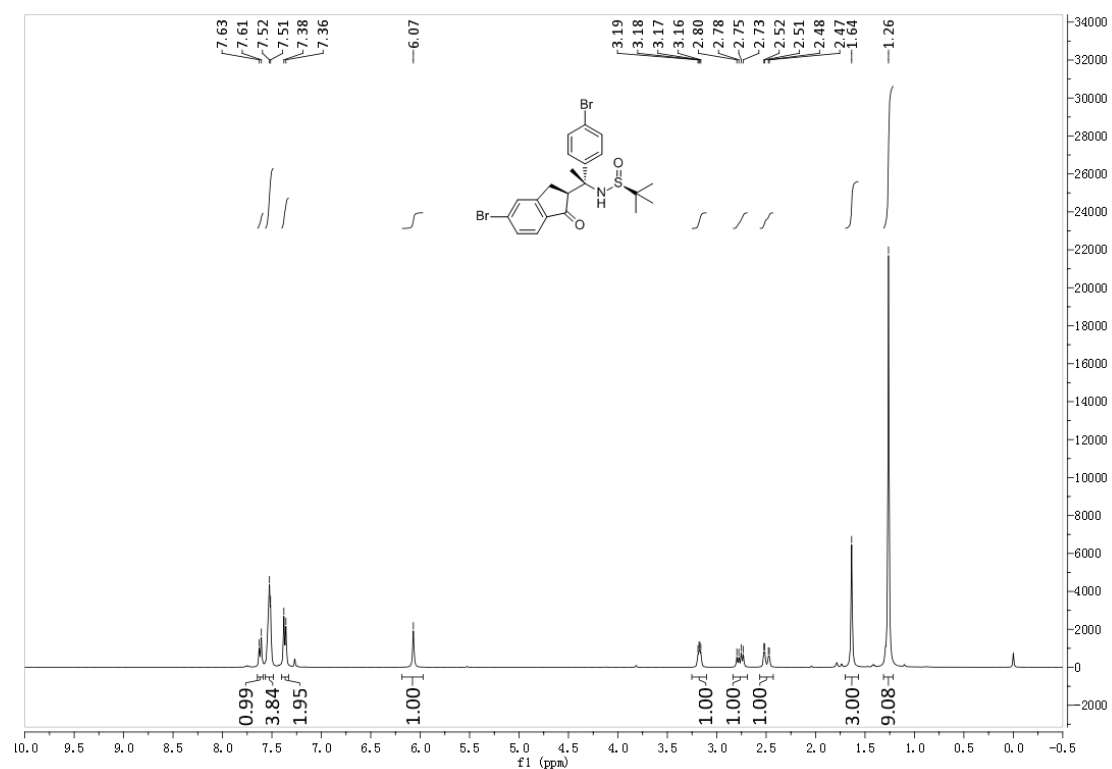
^1H NMR and ^{13}C NMR spectrum of **3q**



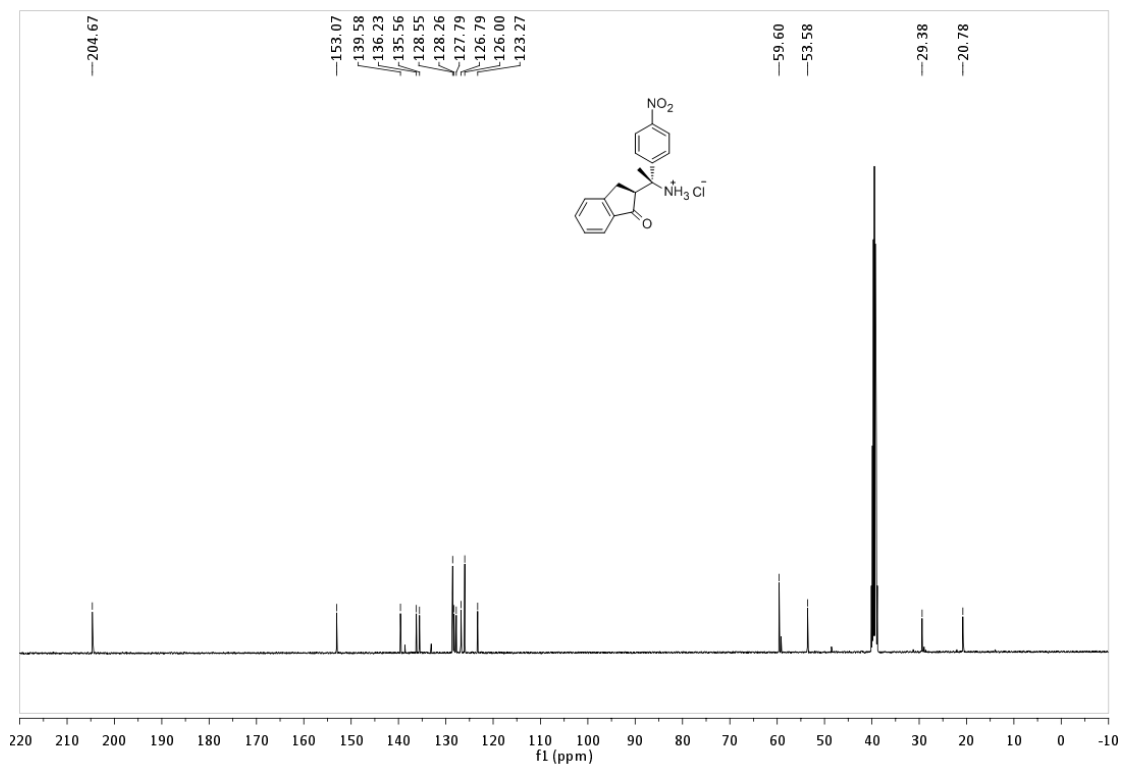
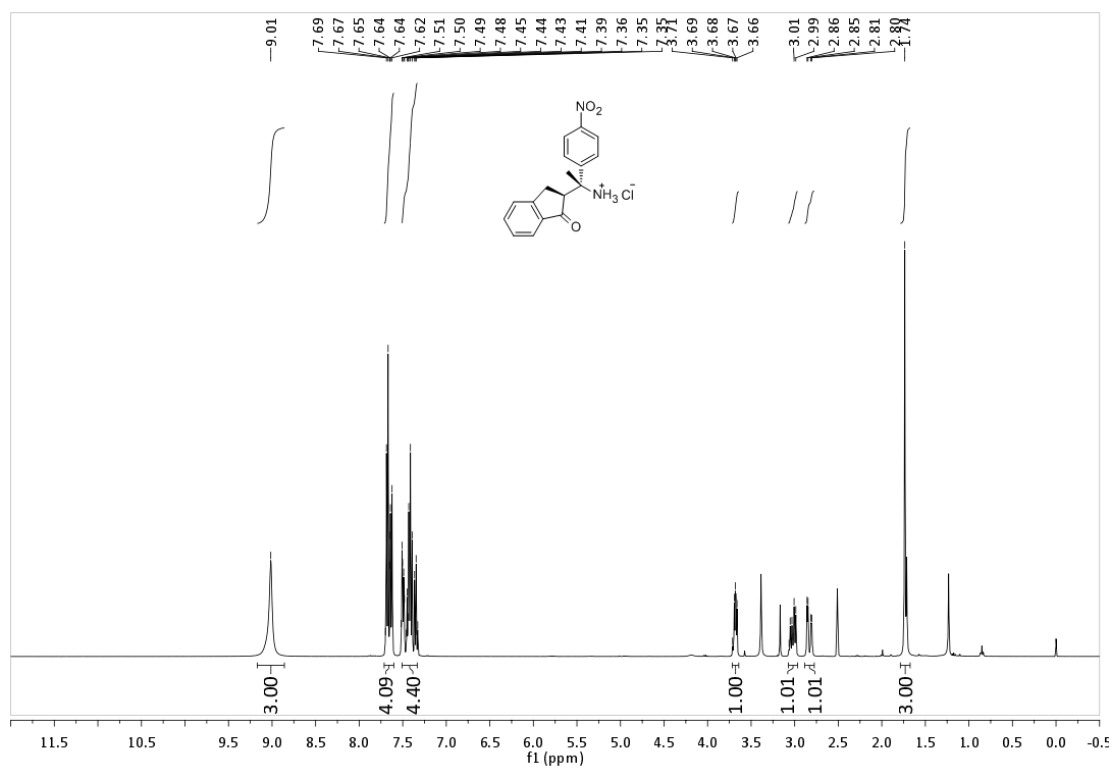
^1H NMR and ^{13}C NMR spectrum of **3r**



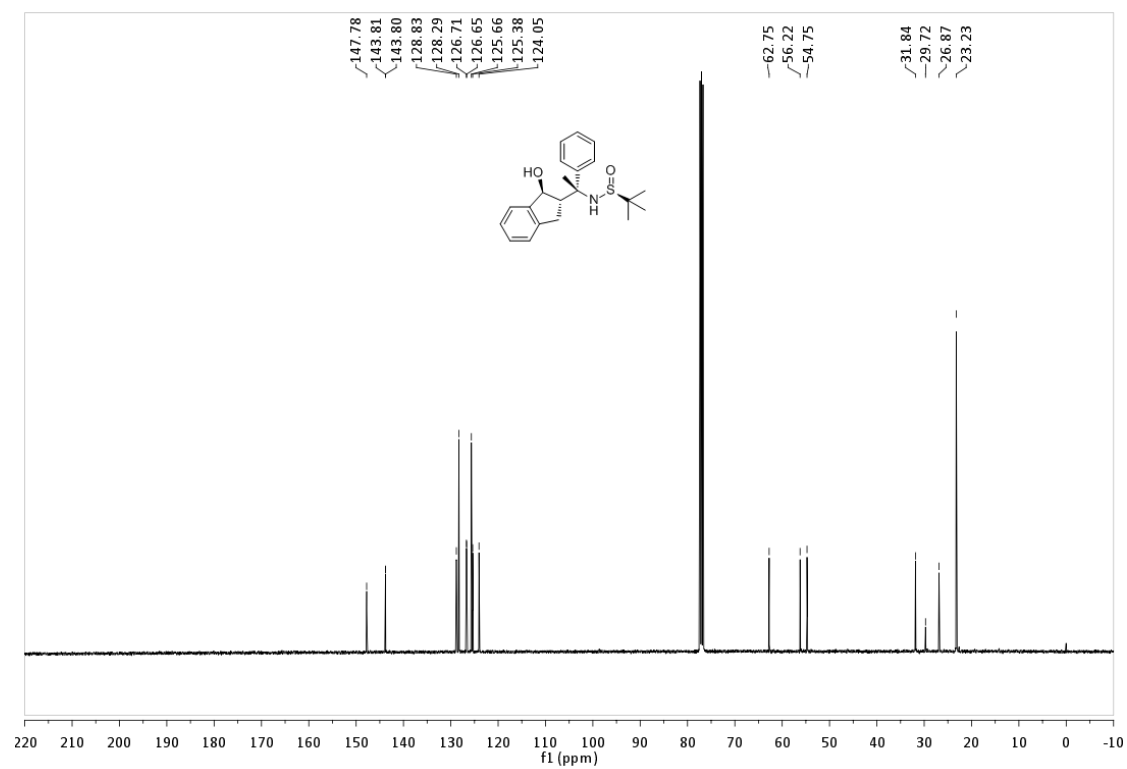
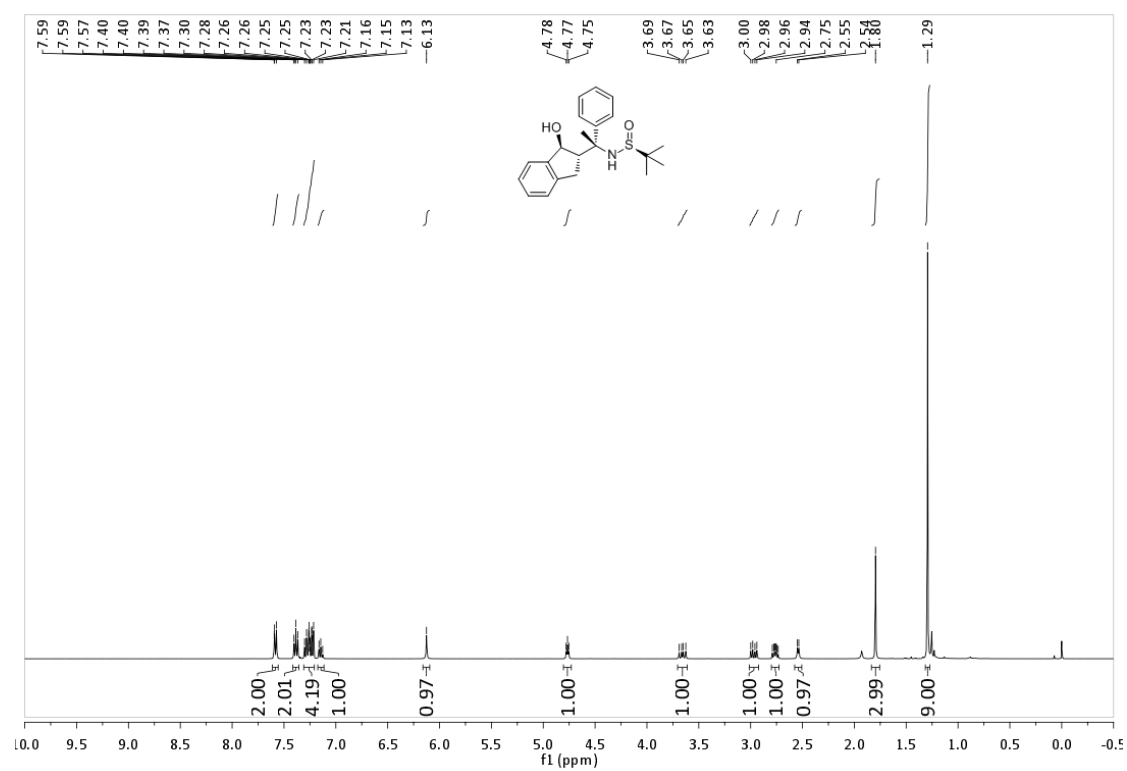
^1H NMR and ^{13}C NMR spectrum of **3s**



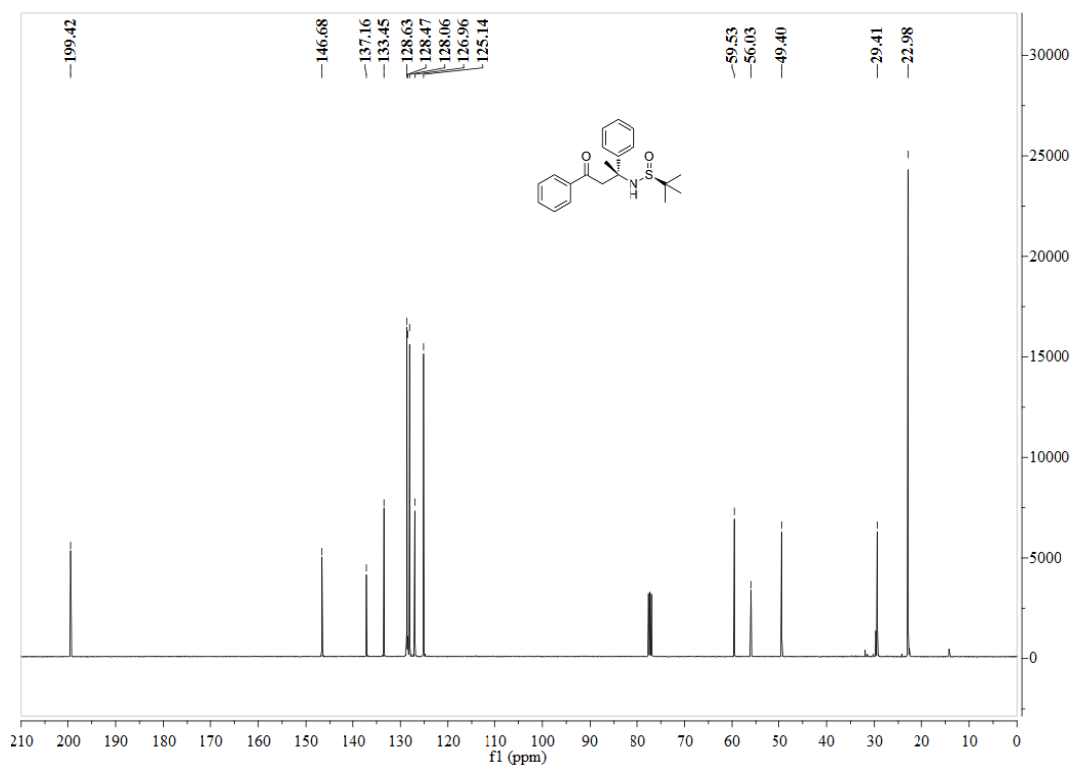
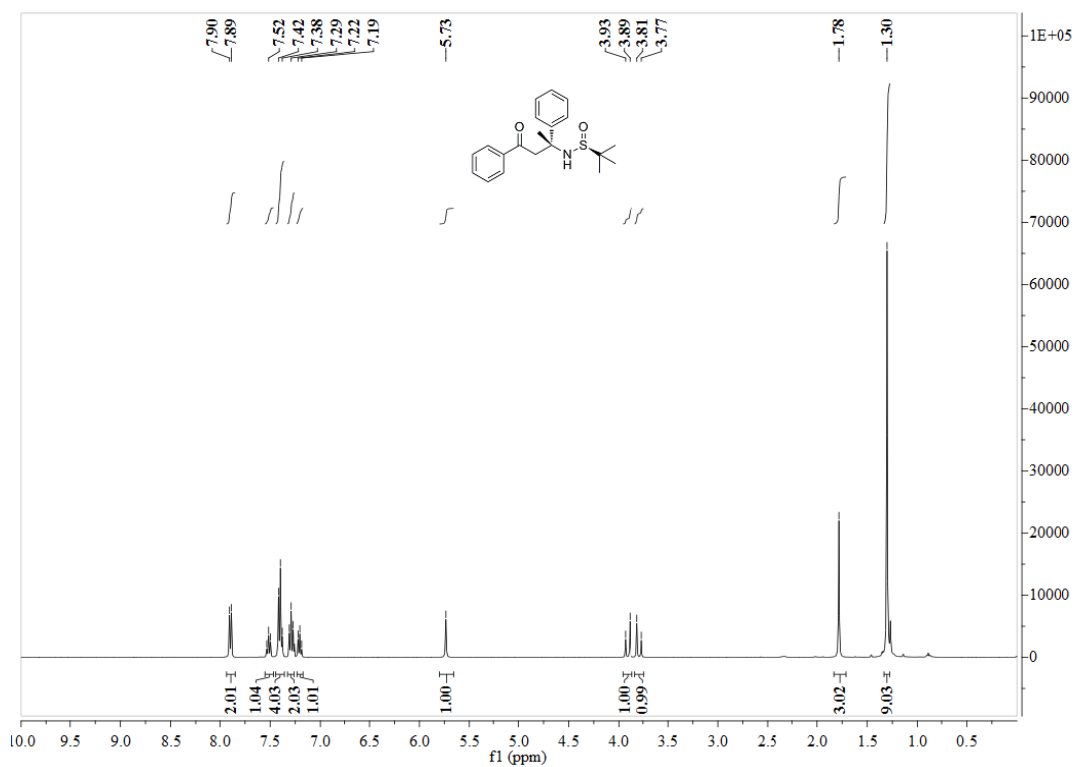
^1H NMR and ^{13}C NMR spectrum of **4**



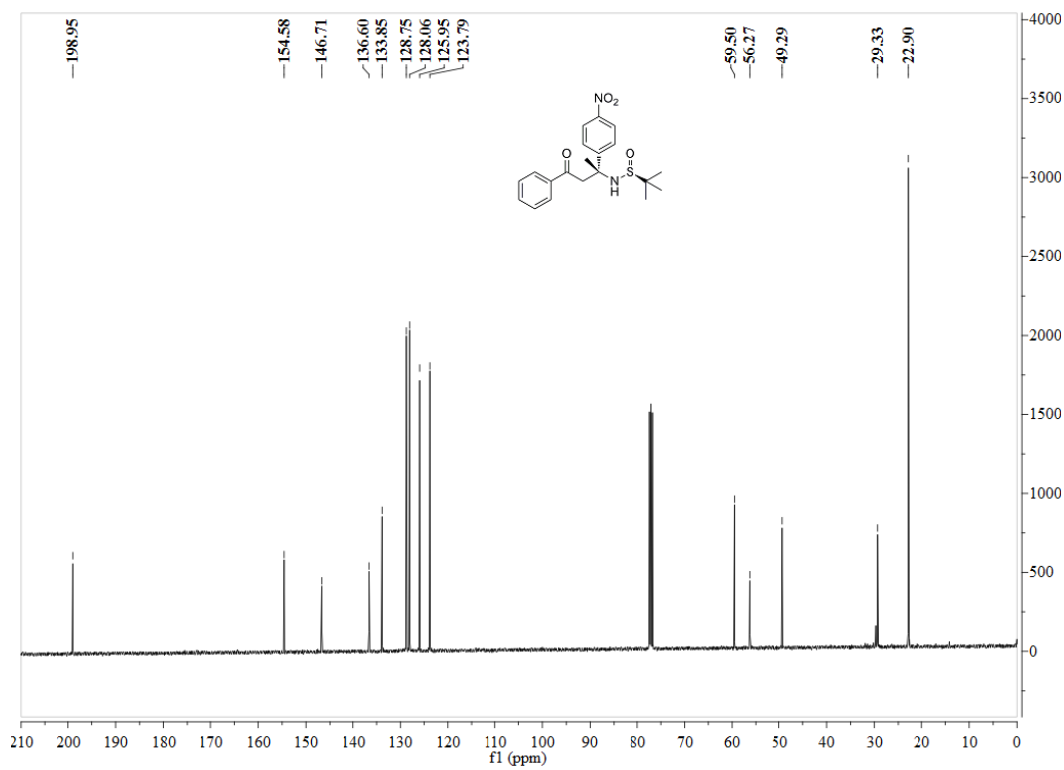
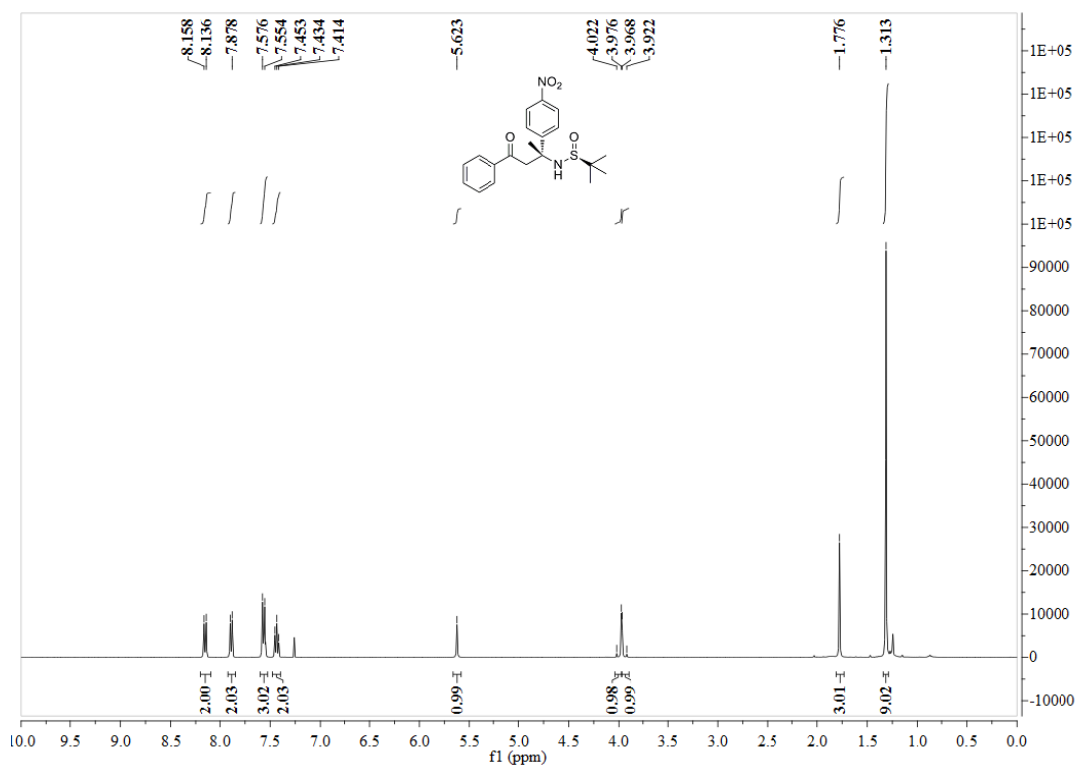
^1H NMR and ^{13}C NMR spectrum of **5**



^1H NMR and ^{13}C NMR spectrum of **7a**



^1H NMR and ^{13}C NMR spectrum of **7b**



^1H NMR and ^{13}C NMR spectrum of 7c

