

## Supporting Information

*For*

### Copper-Catalyzed Multi-Component Synthesis of Acrylamidines and Benzoimidazoles

Jinjin Wang, Ping Lu\* and Yanguang Wang\*

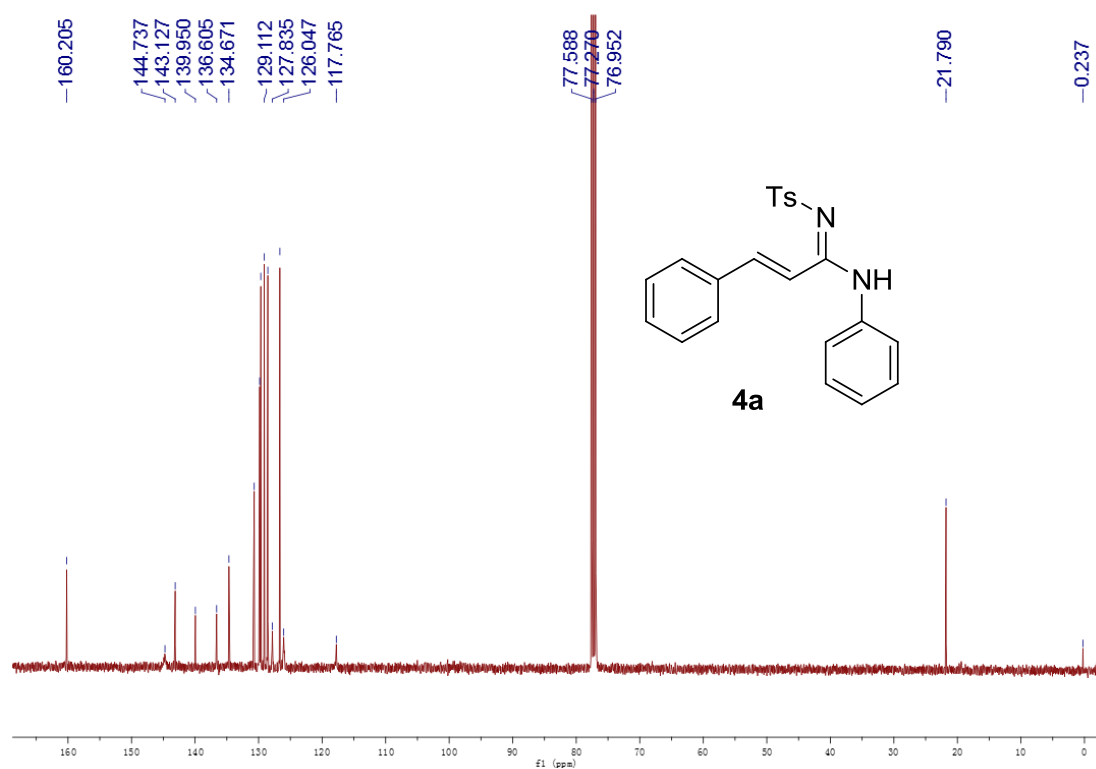
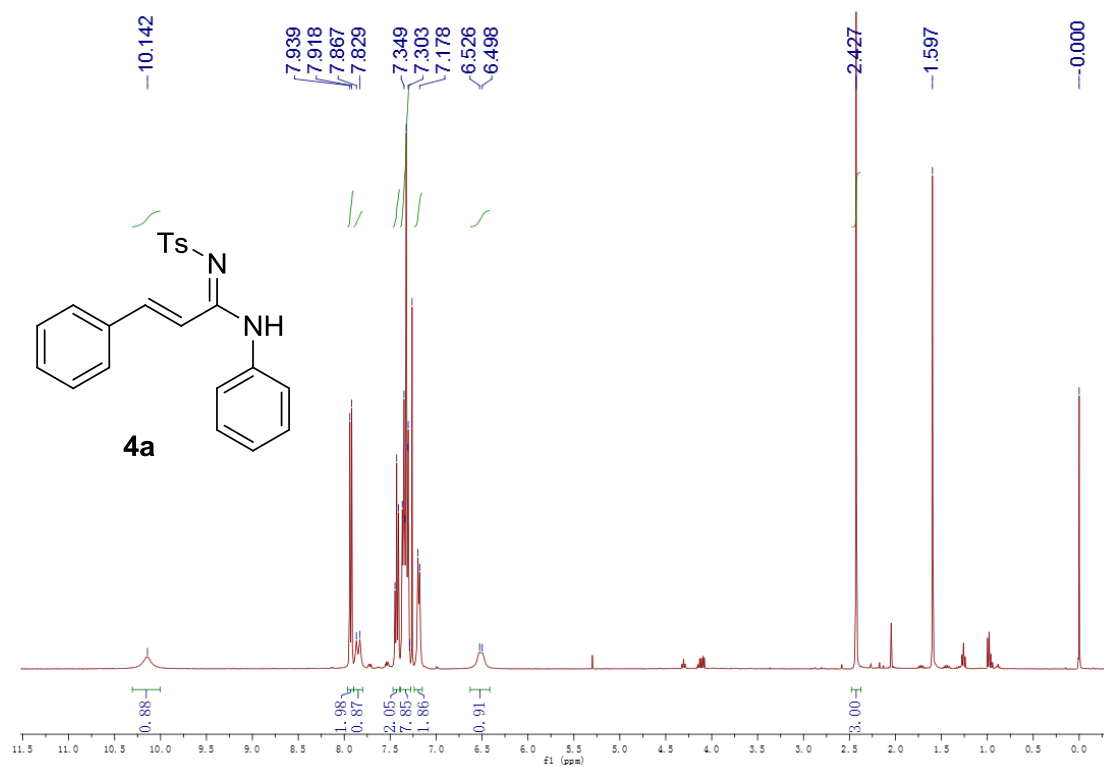
Department of Chemistry, Zhejiang University, Hangzhou 310027, P. R. China

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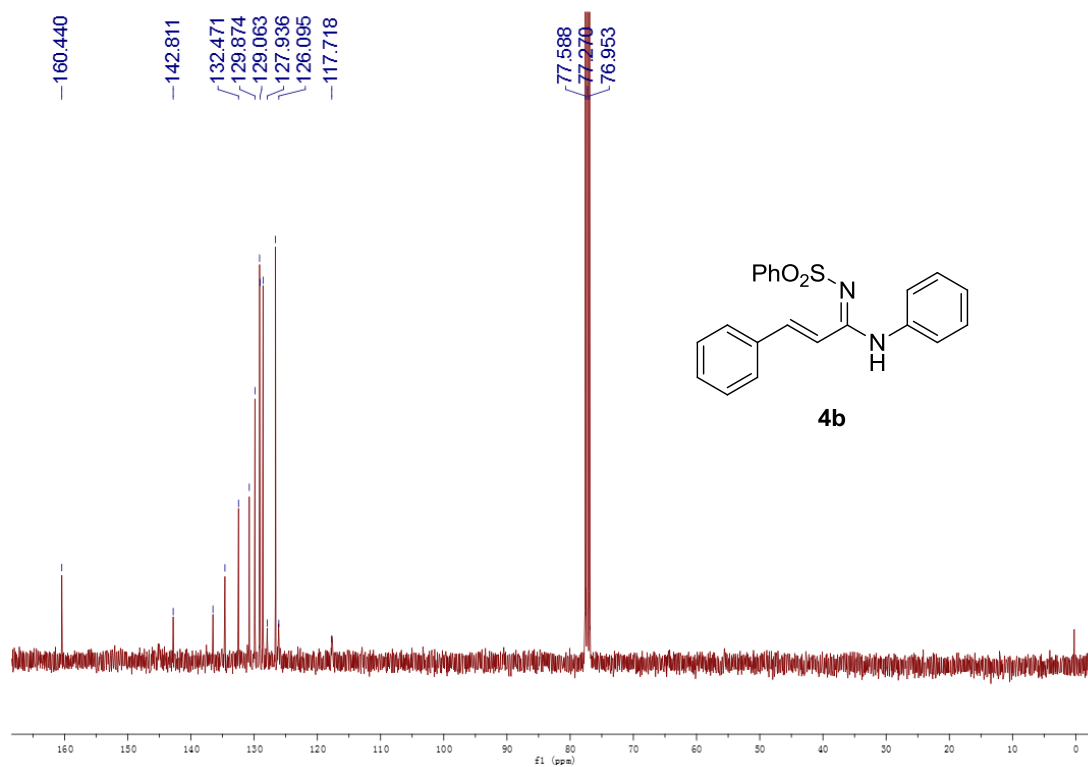
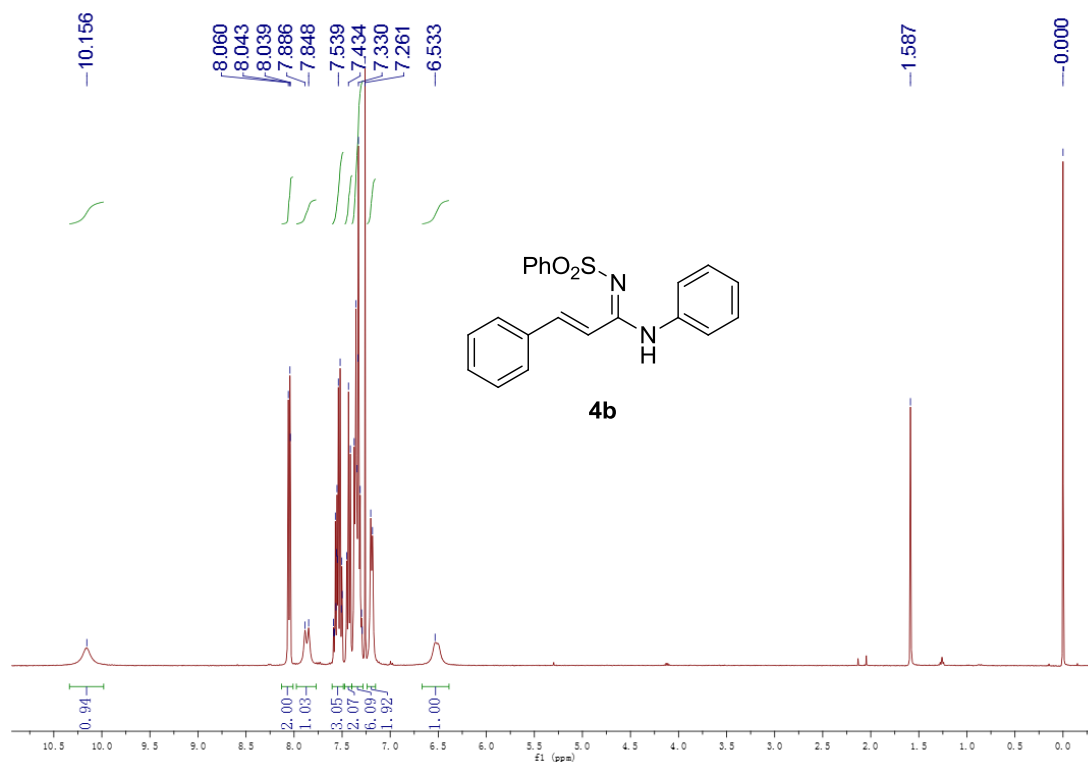
**Figure S1-S18**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4a-4r** -----S2-S19

**Figure S19-S29**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5a-1k**-----S20-S30

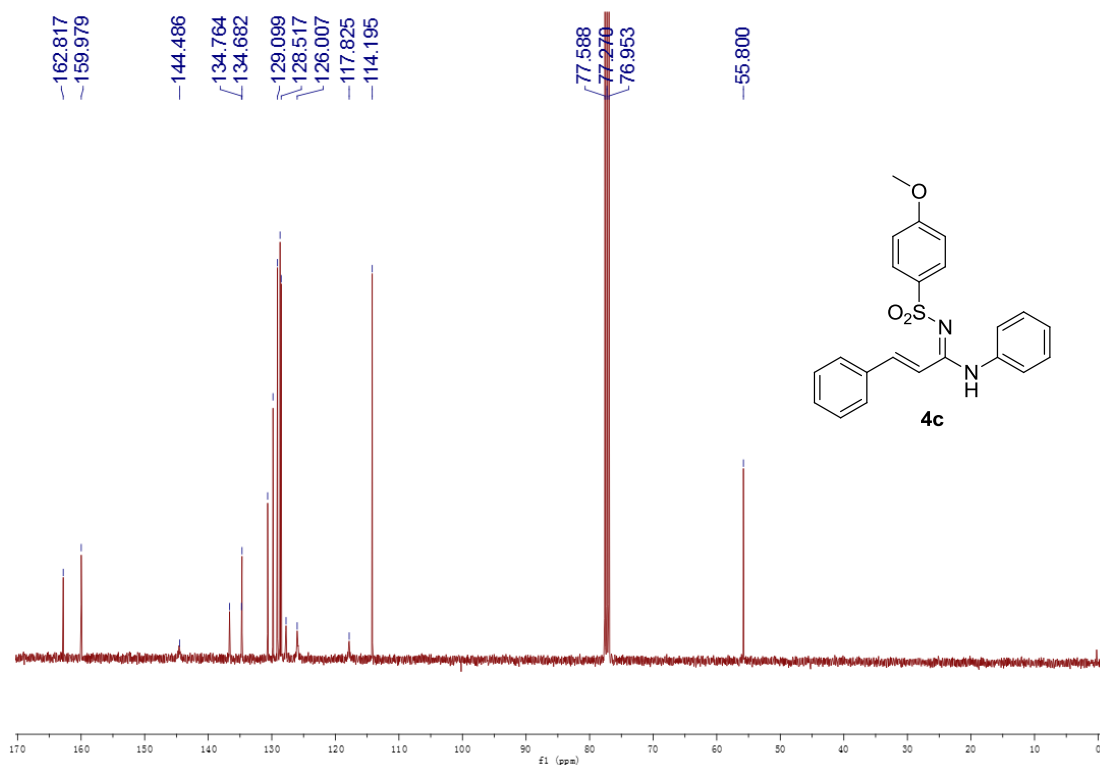
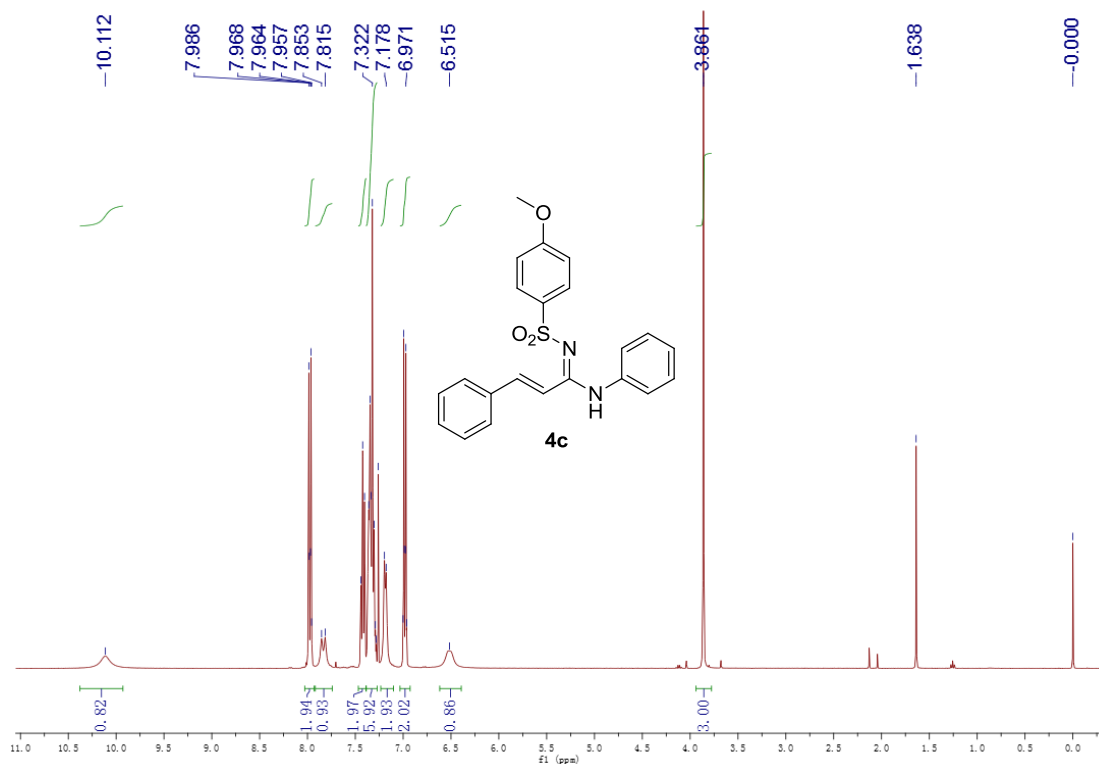
**Figure S1**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4a**



**Figure S2**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4b**



**Figure S3**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4c**



**Figure S4**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4d**

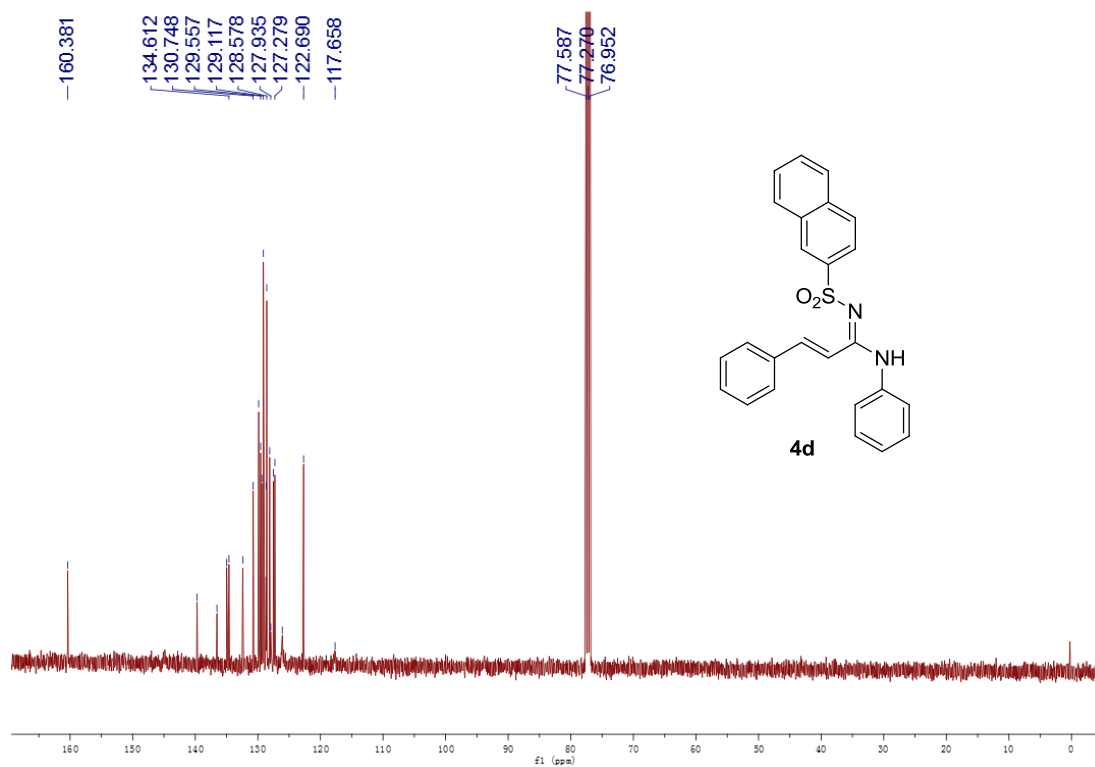
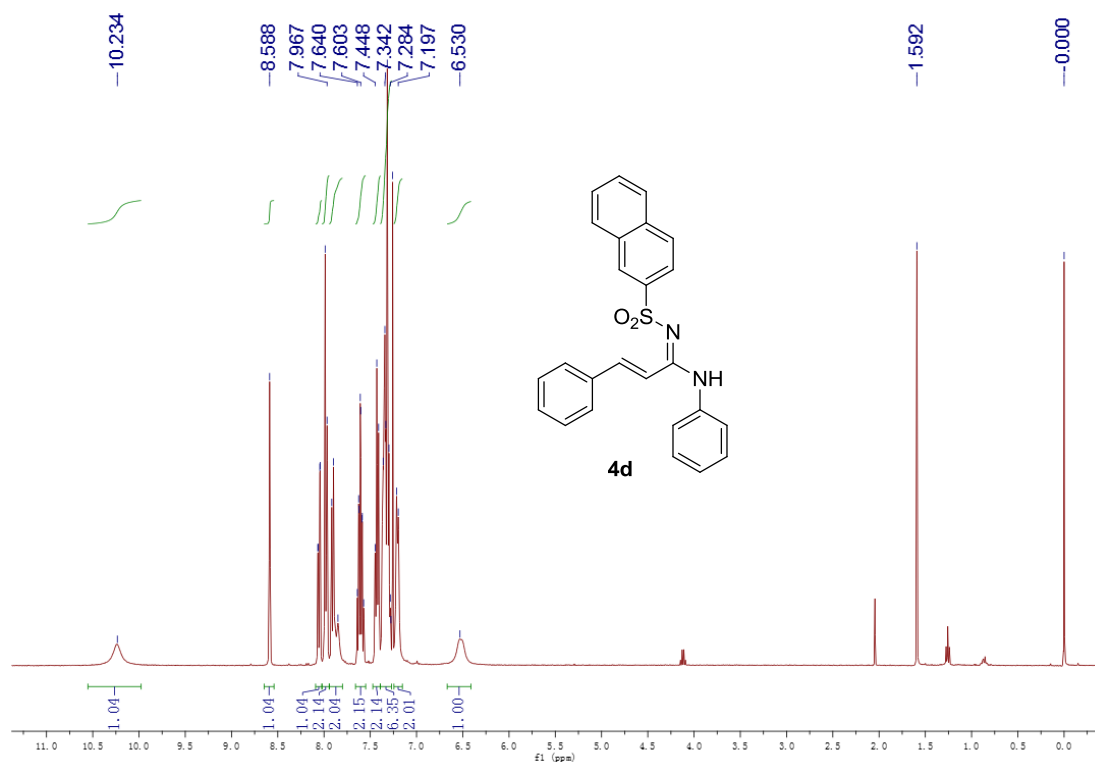


Figure S5  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4e**

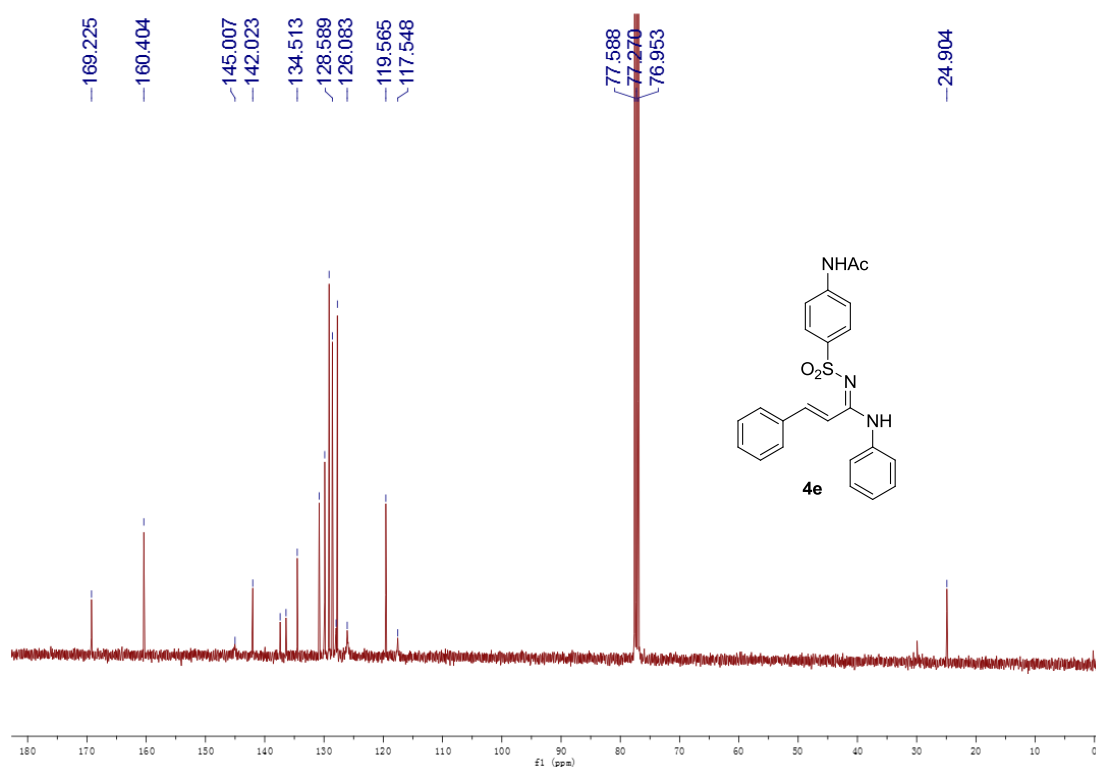
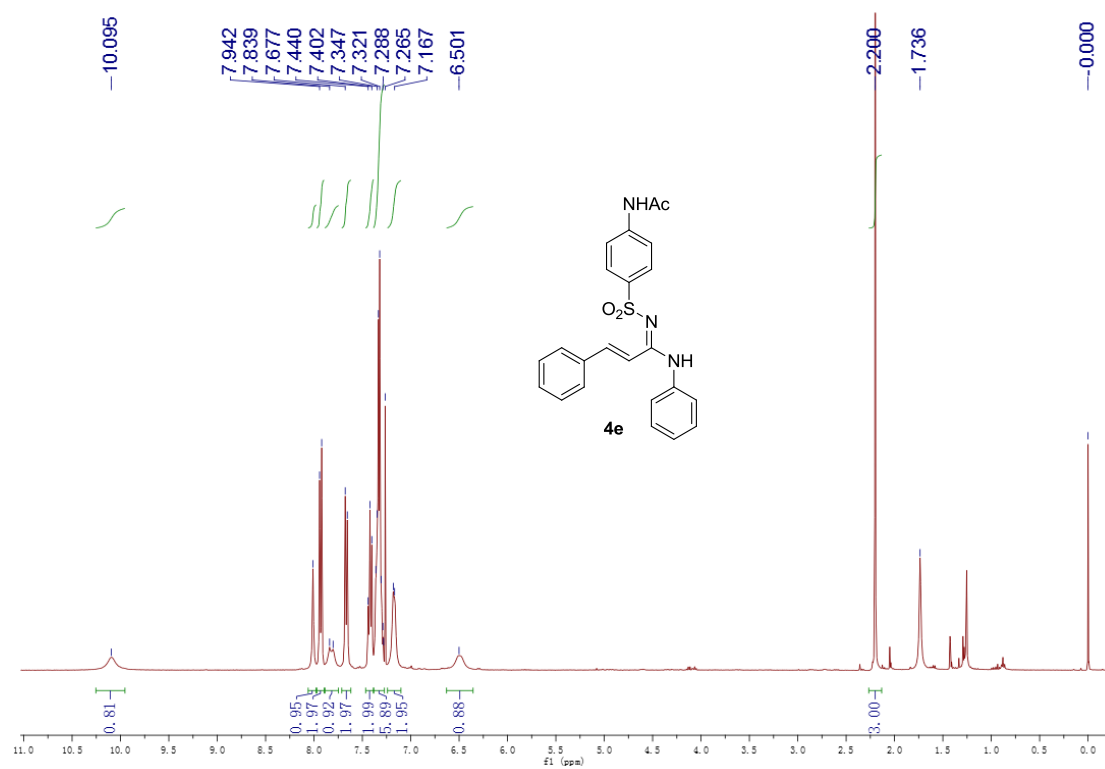
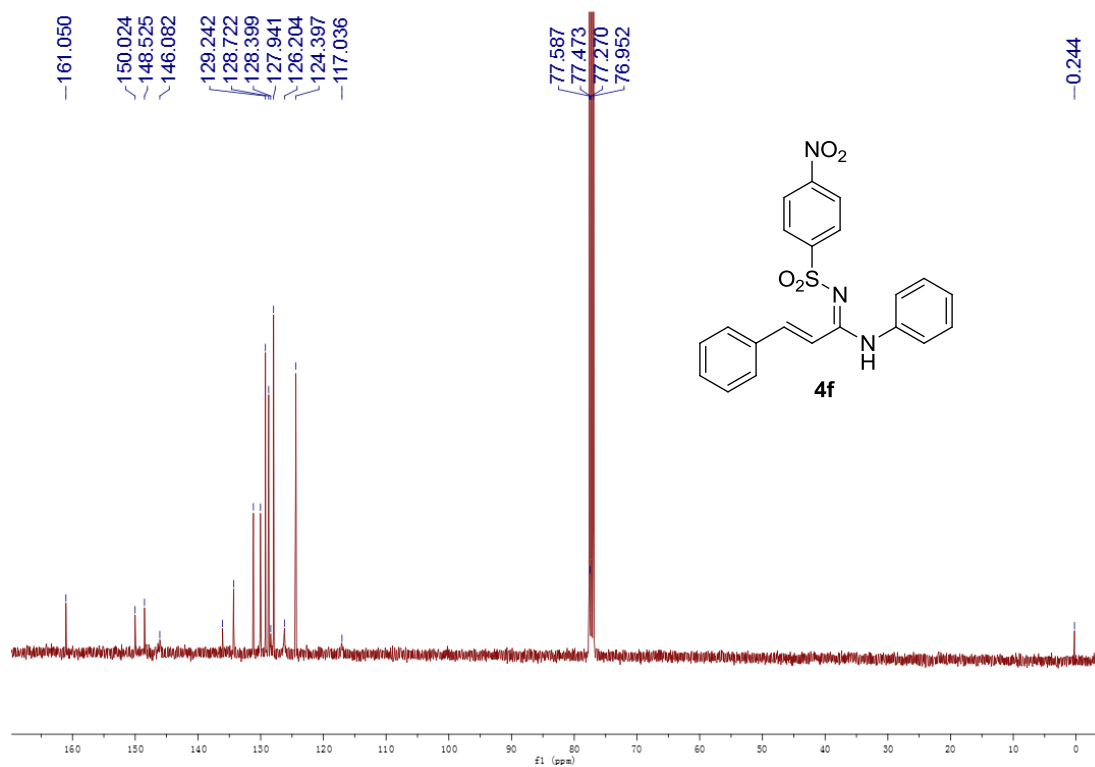
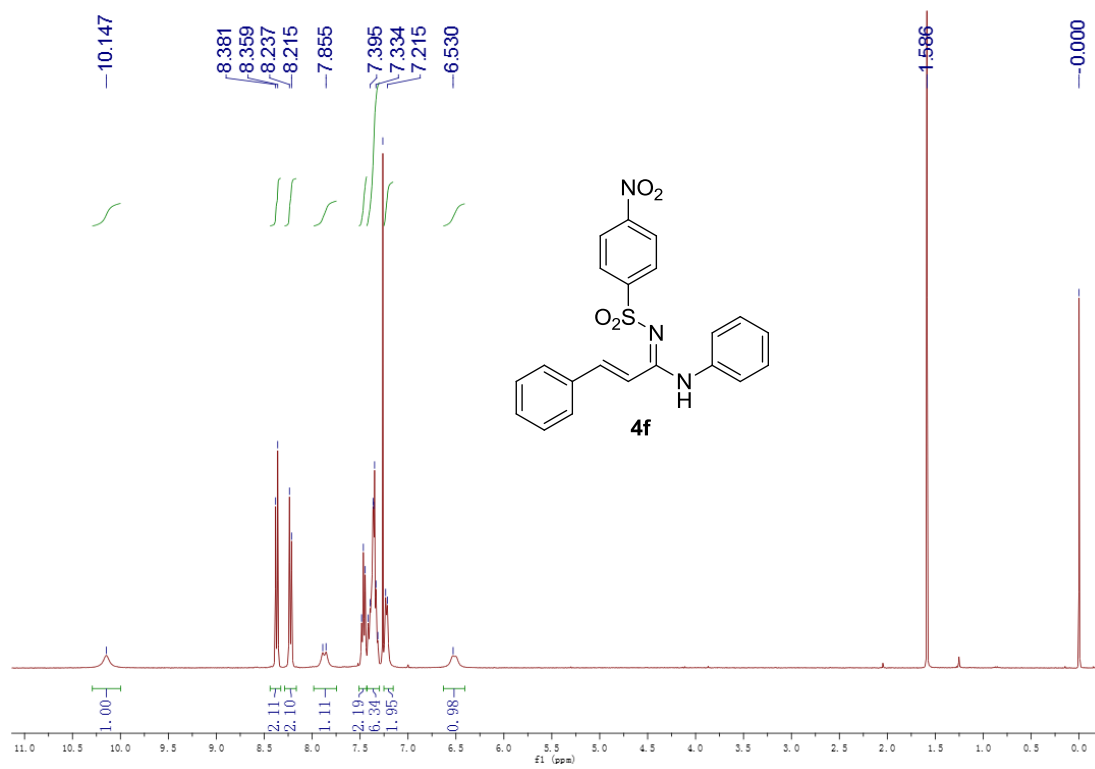
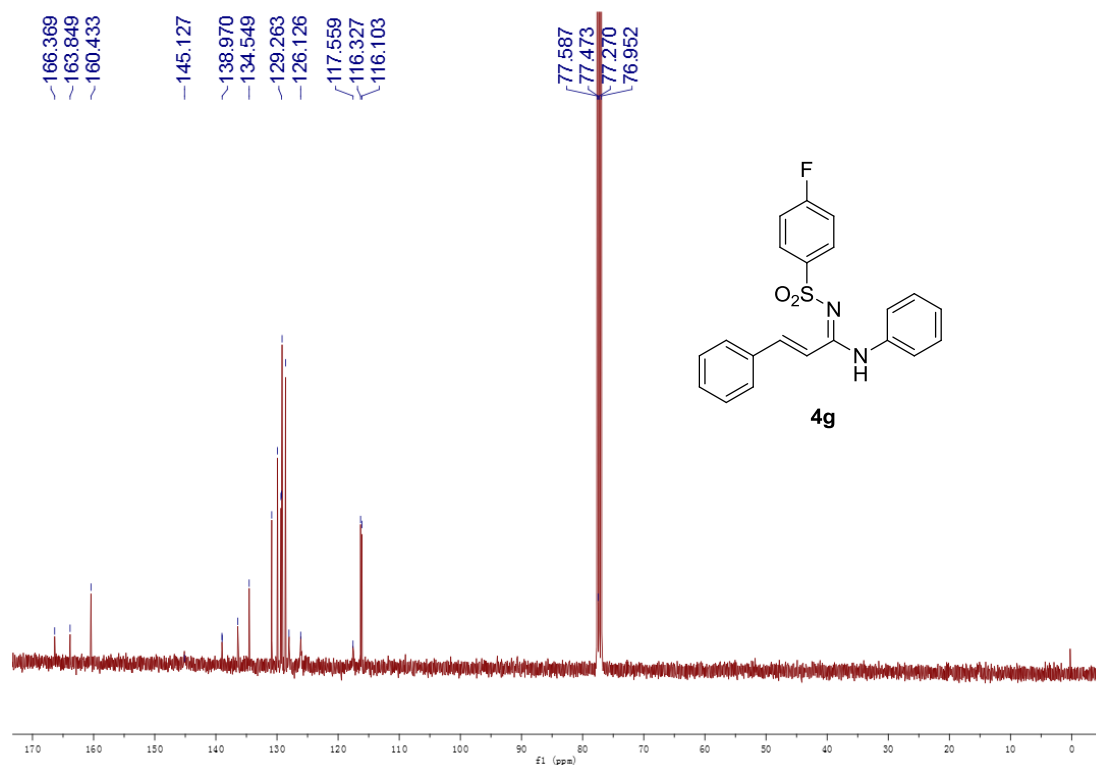
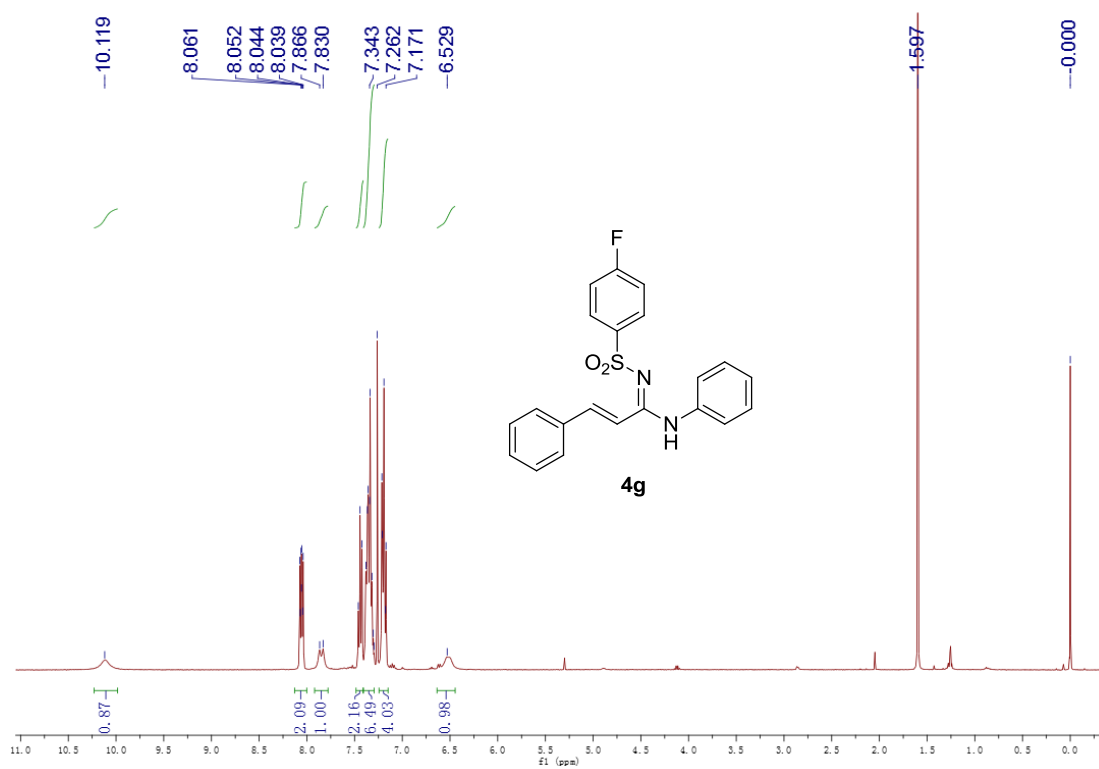


Figure S6  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4f**

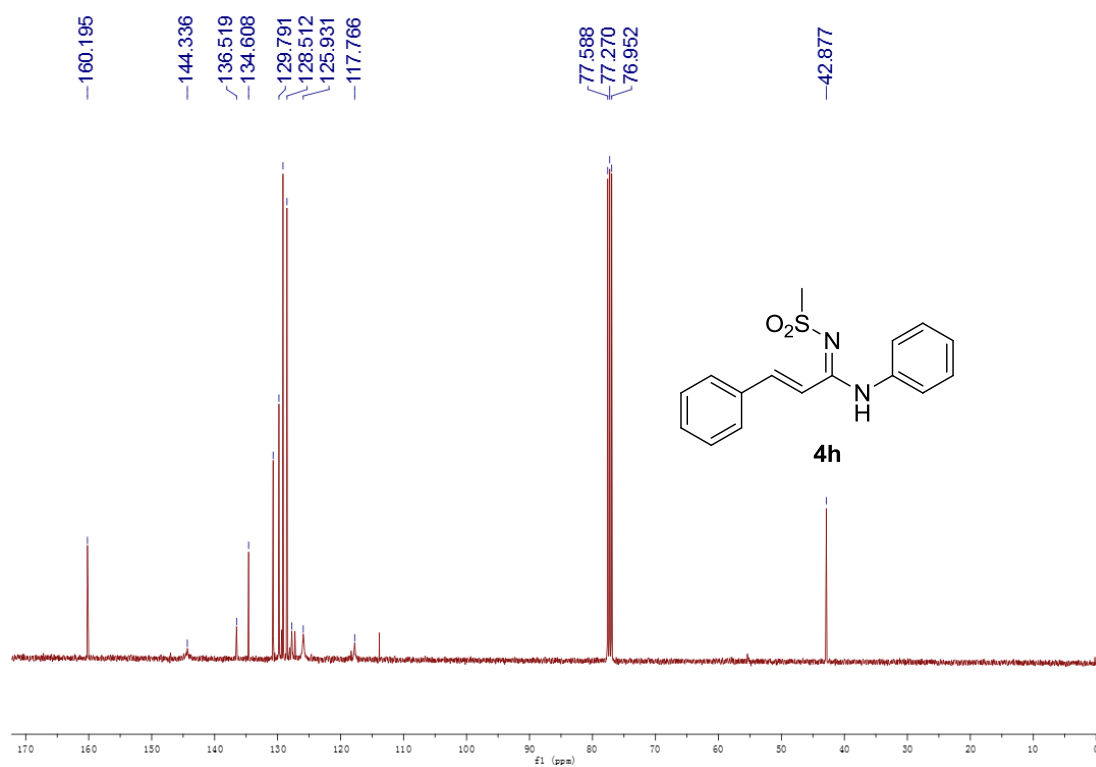
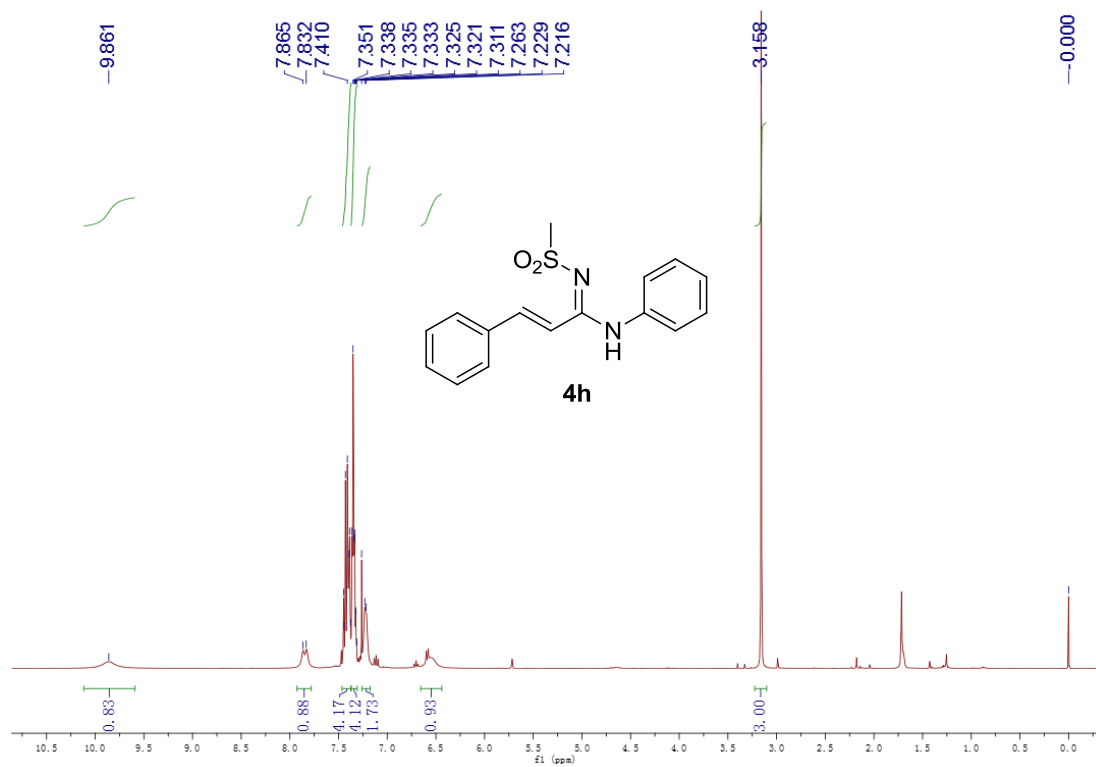


**Figure S7**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4g**





**Figure S8**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4h**



**Figure S9**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4i**

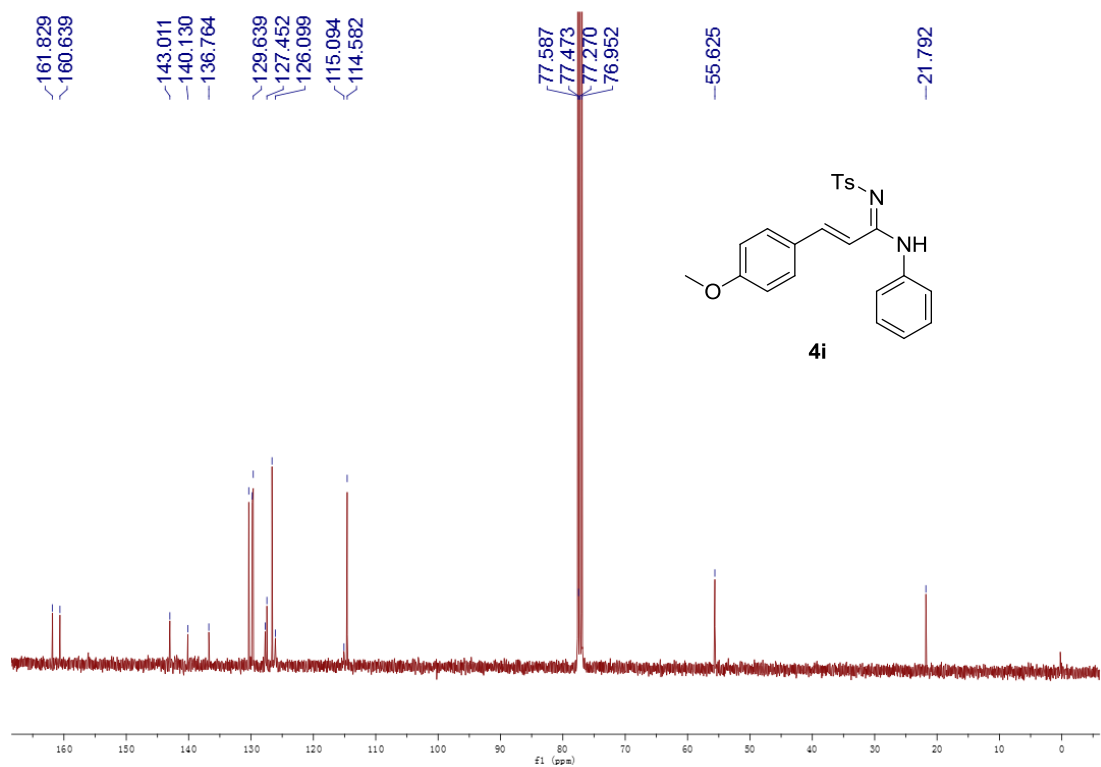
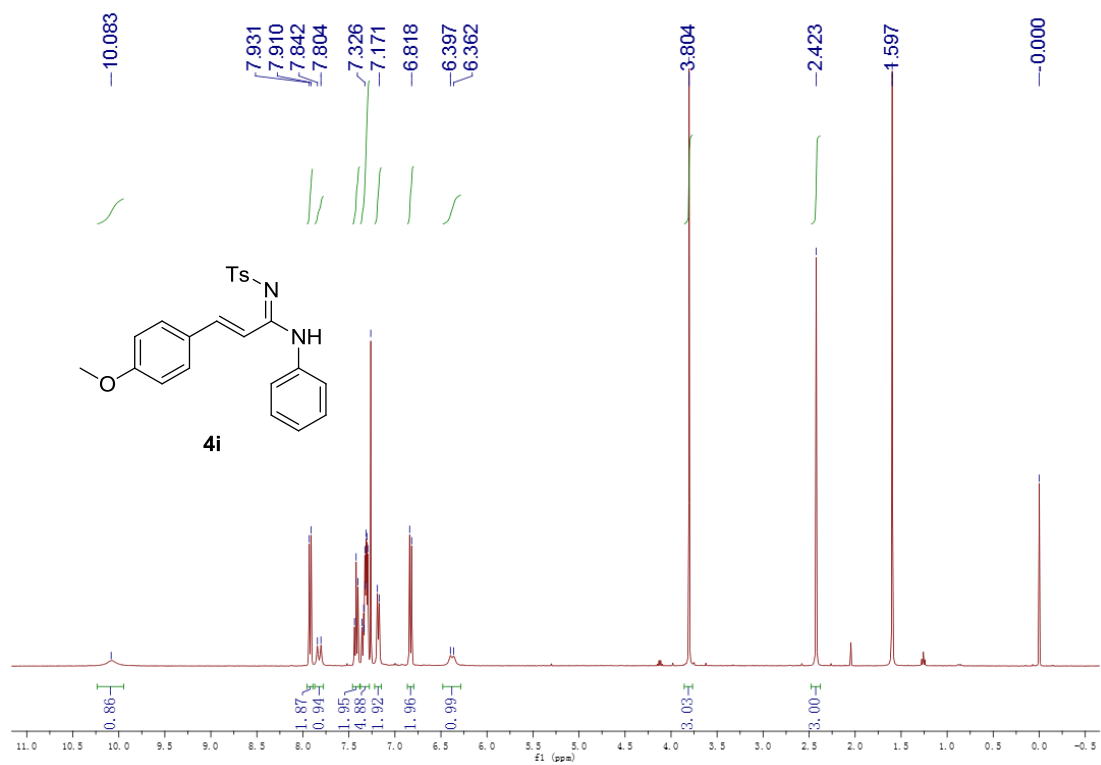


Figure S10  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4j**

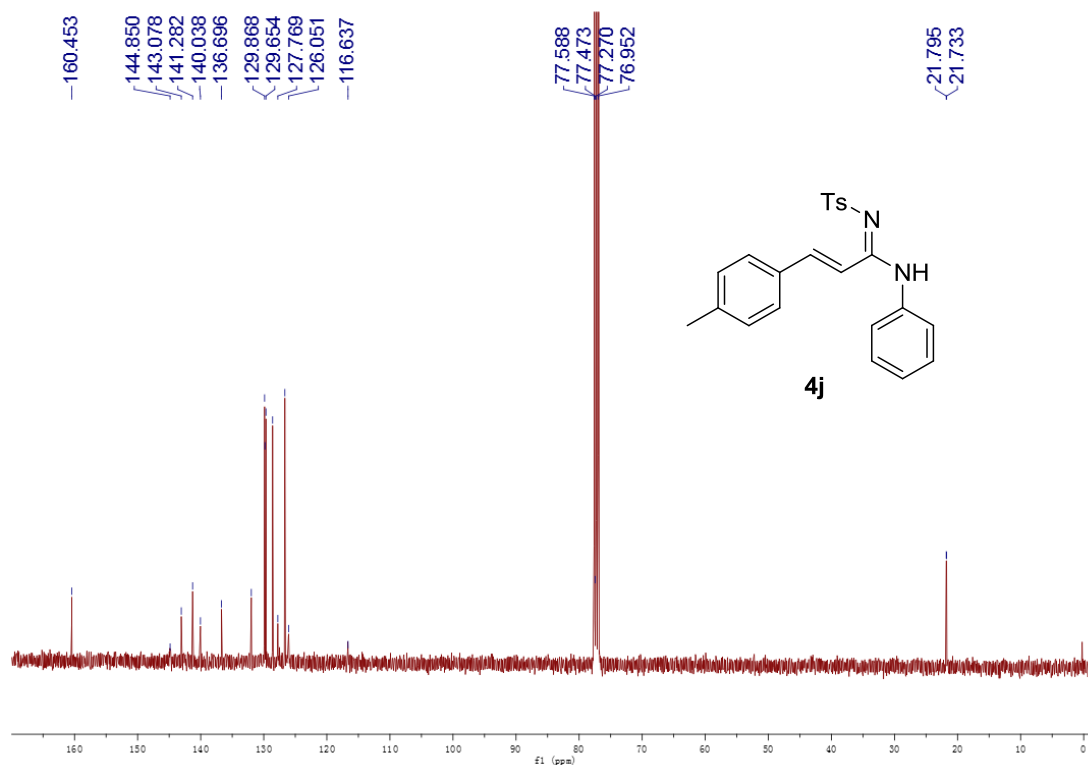
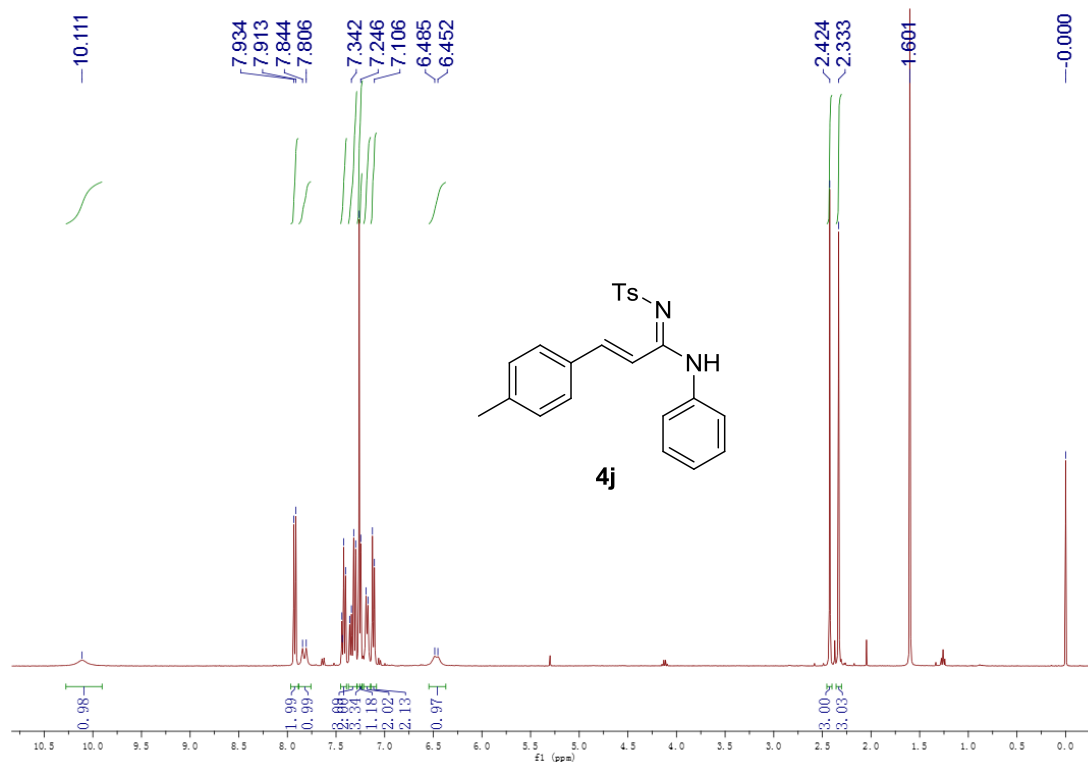
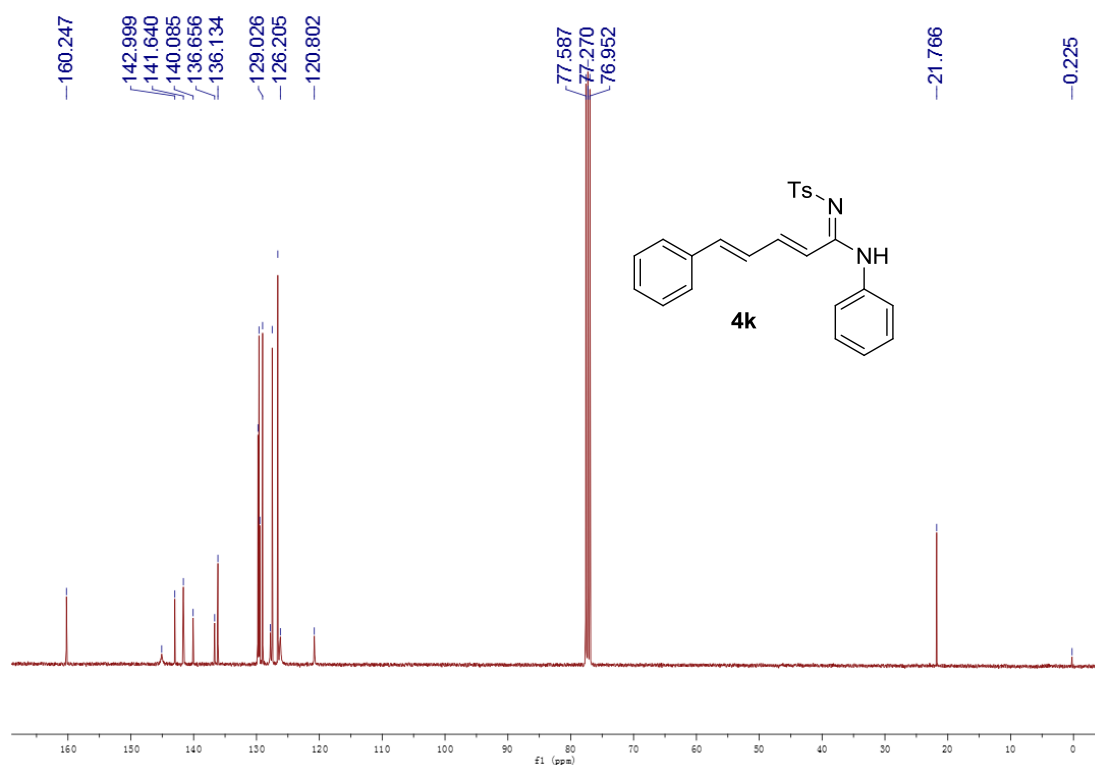
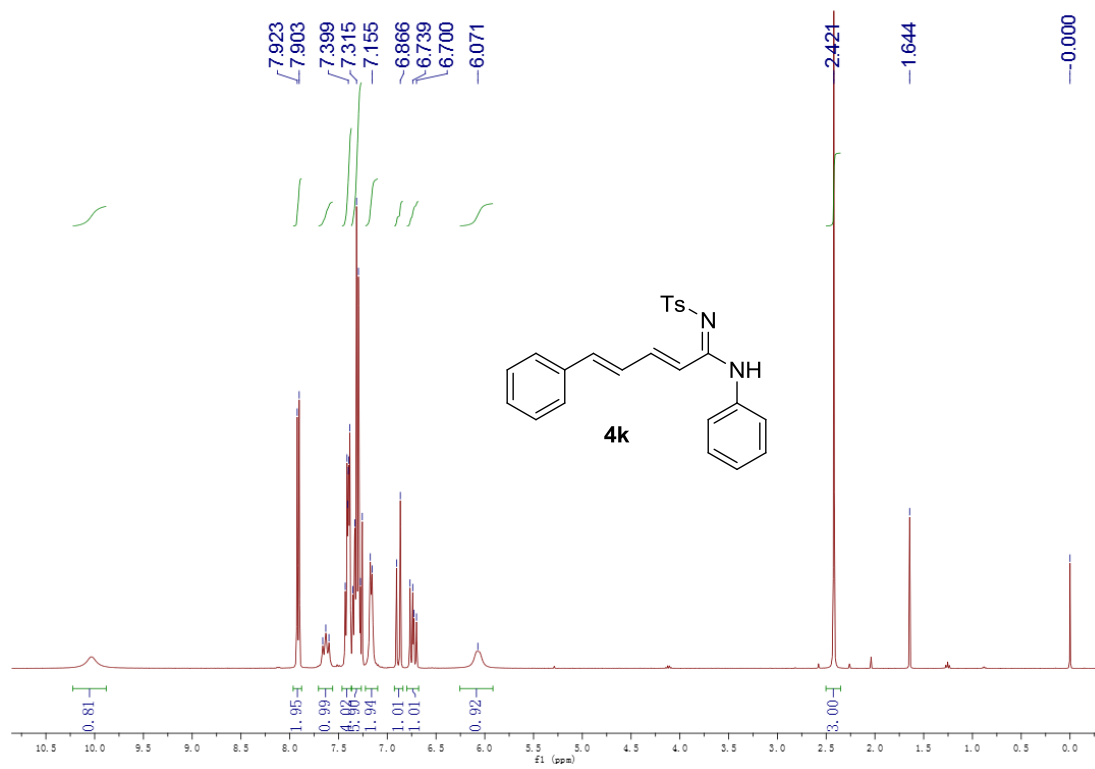


Figure S11  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4k**



**Figure S12**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4I**

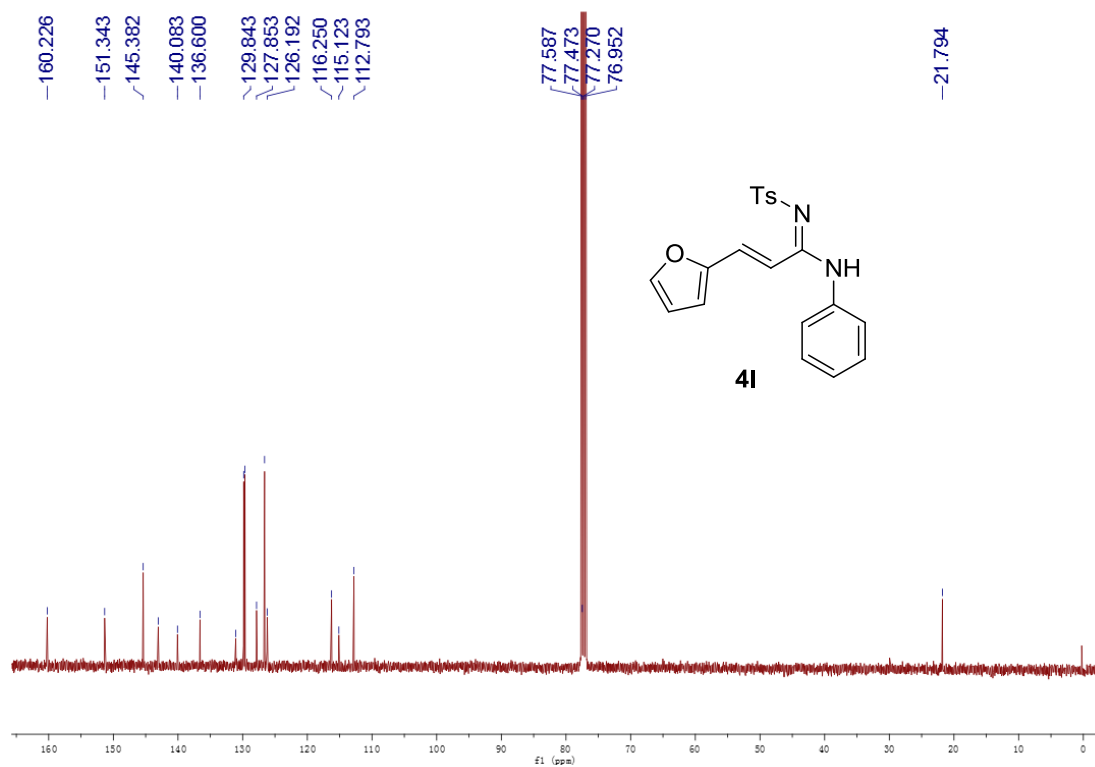
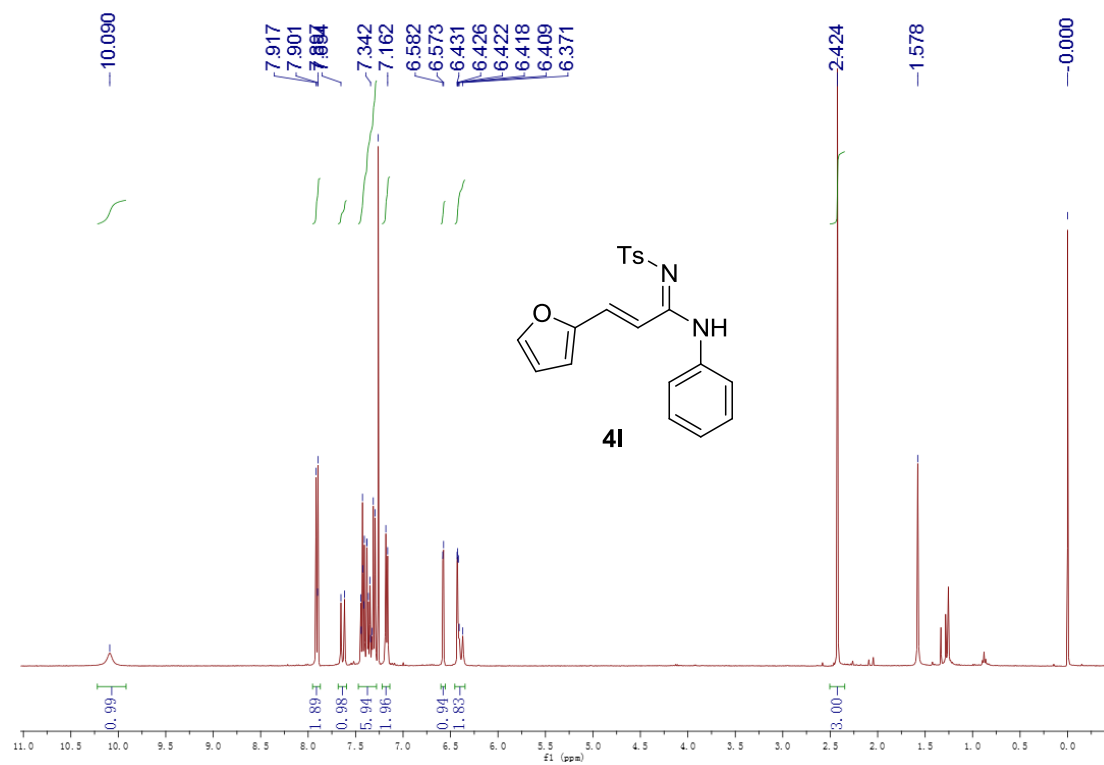
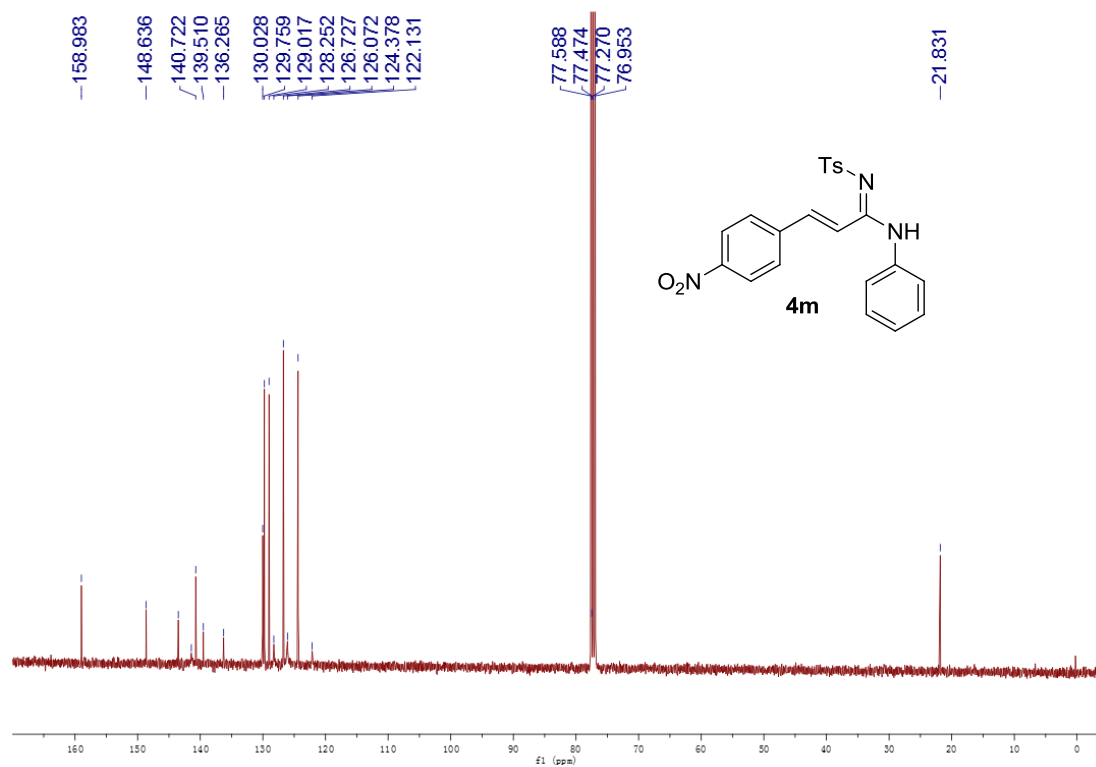
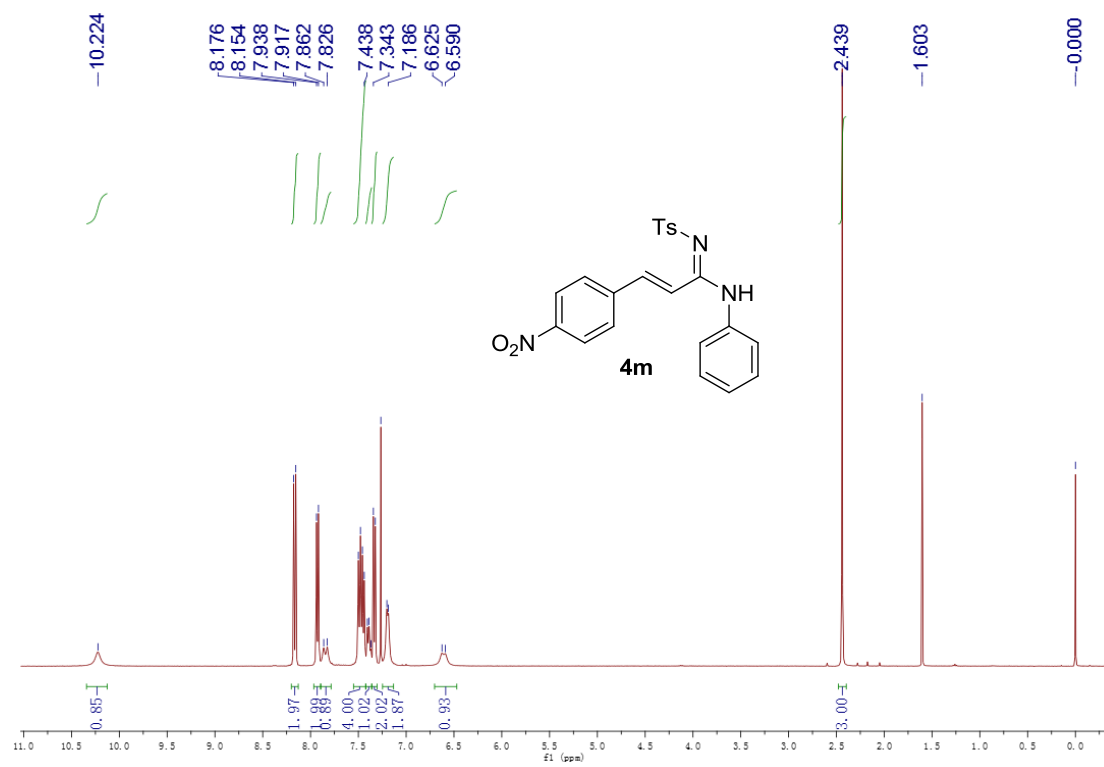


Figure S13  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4m**



**Figure S14**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4n**

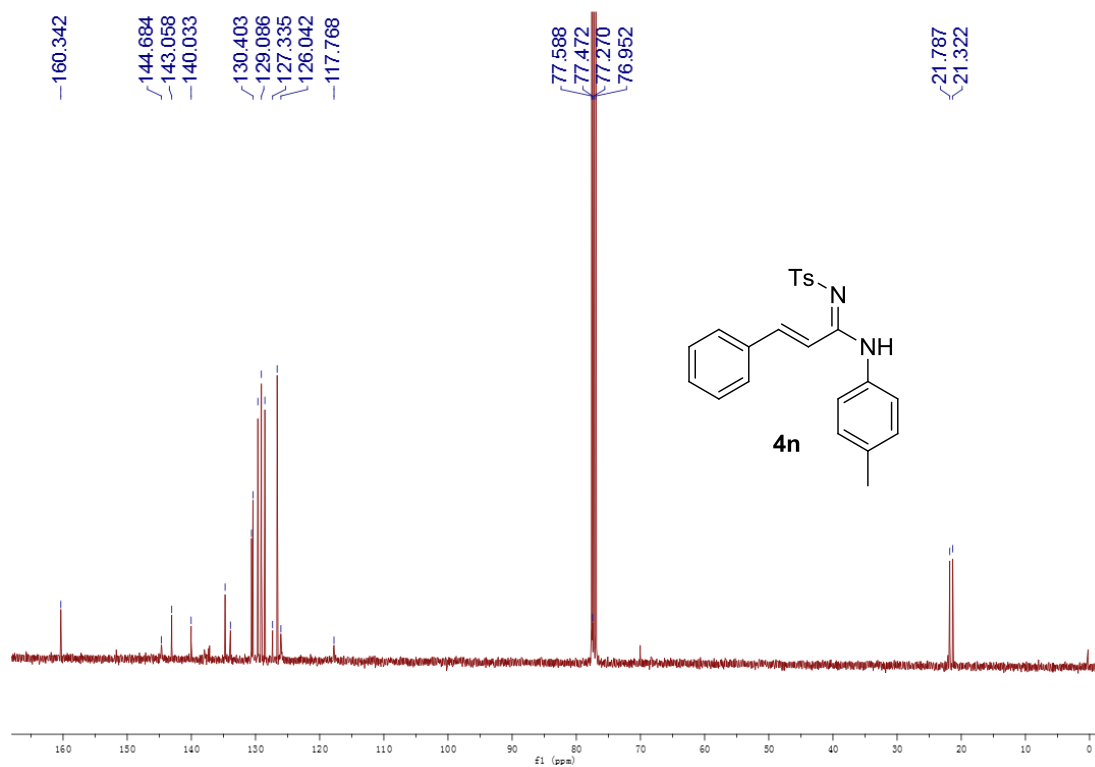
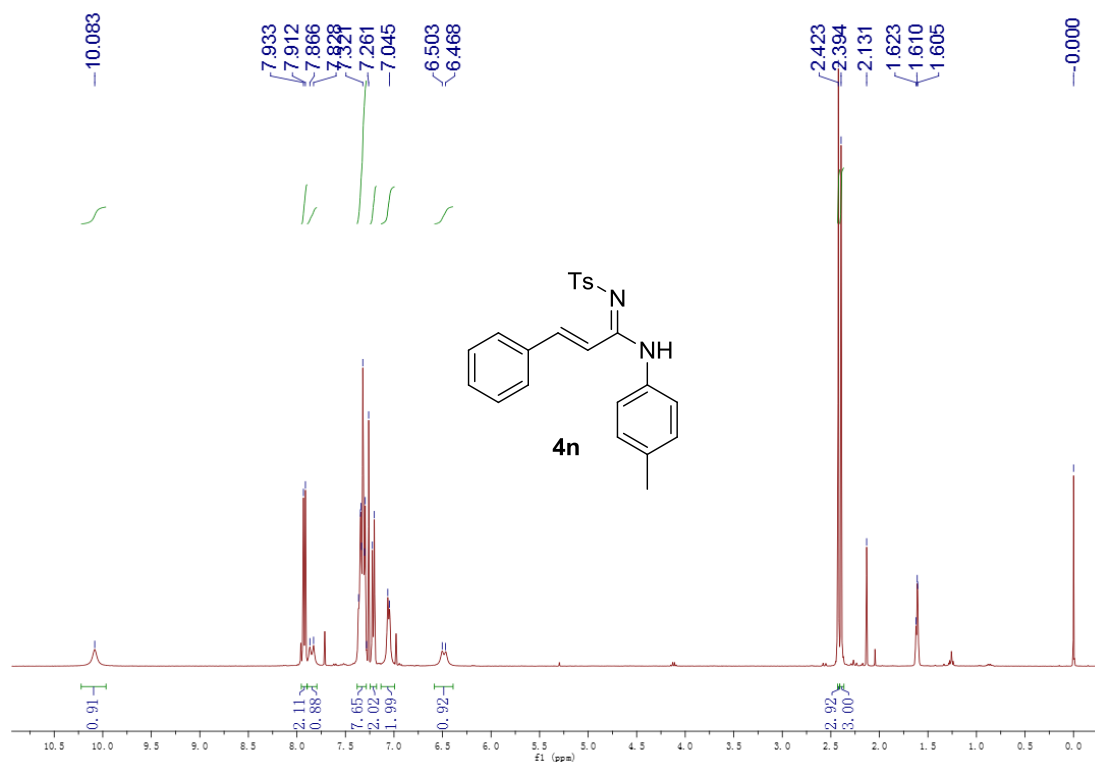


Figure S15  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4o**

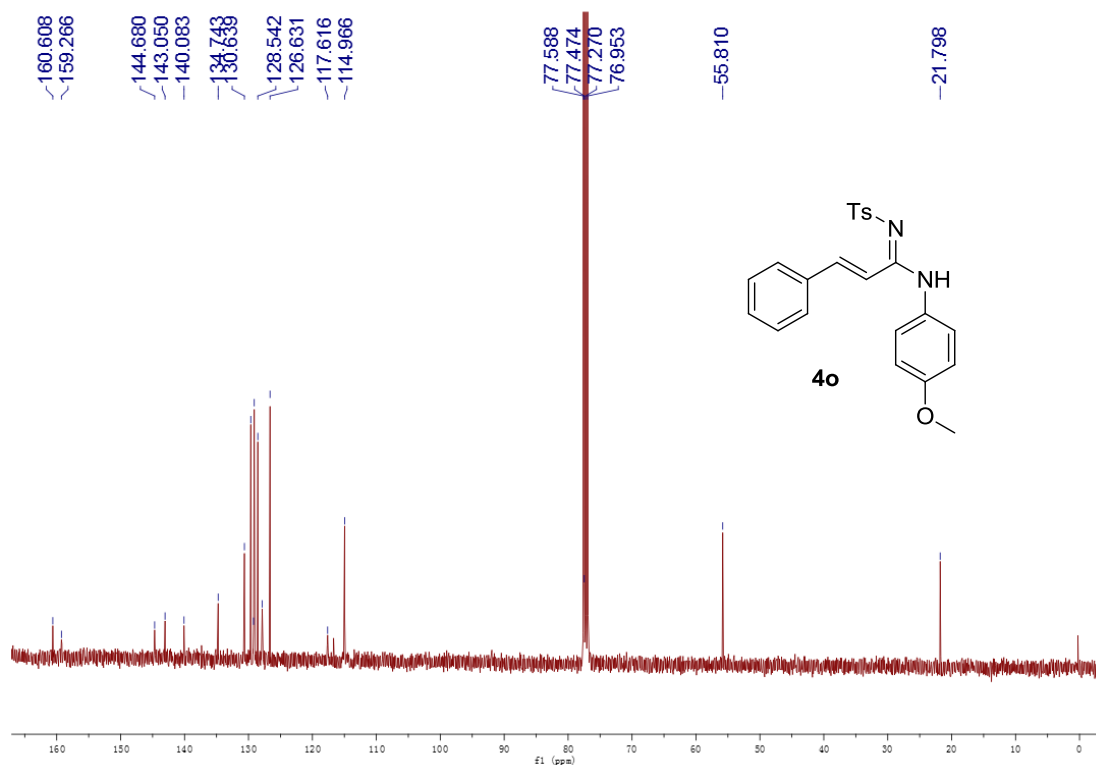
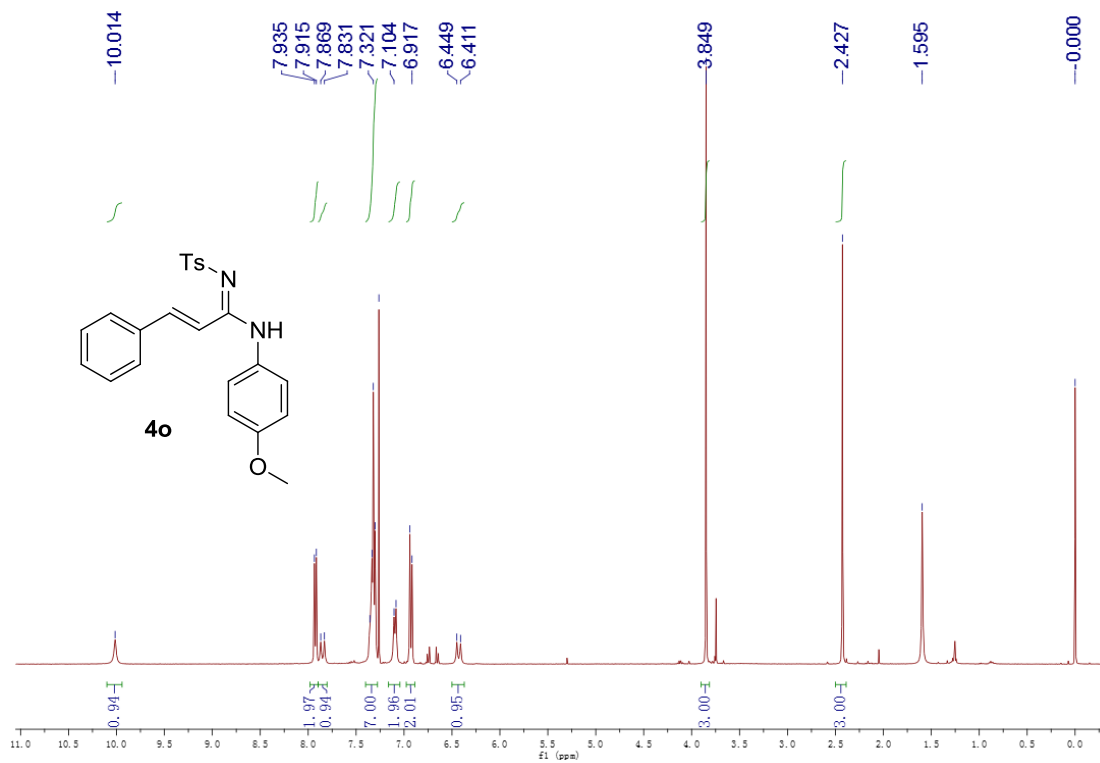




Figure S16  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of 4p

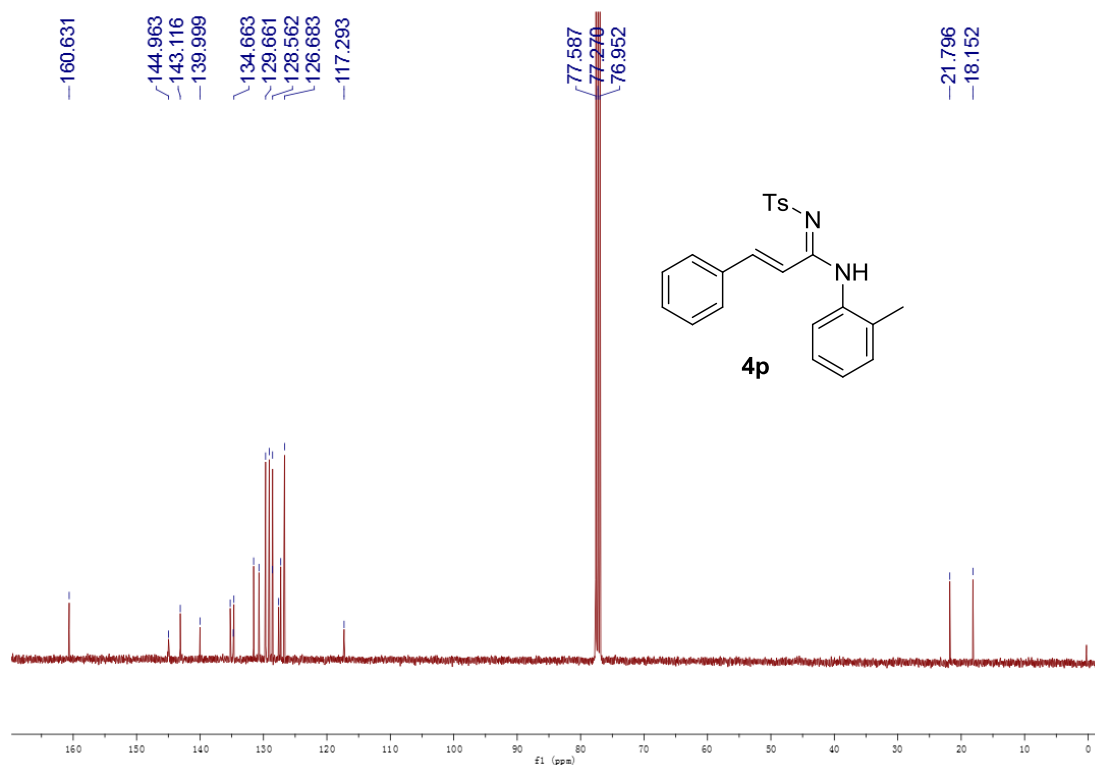
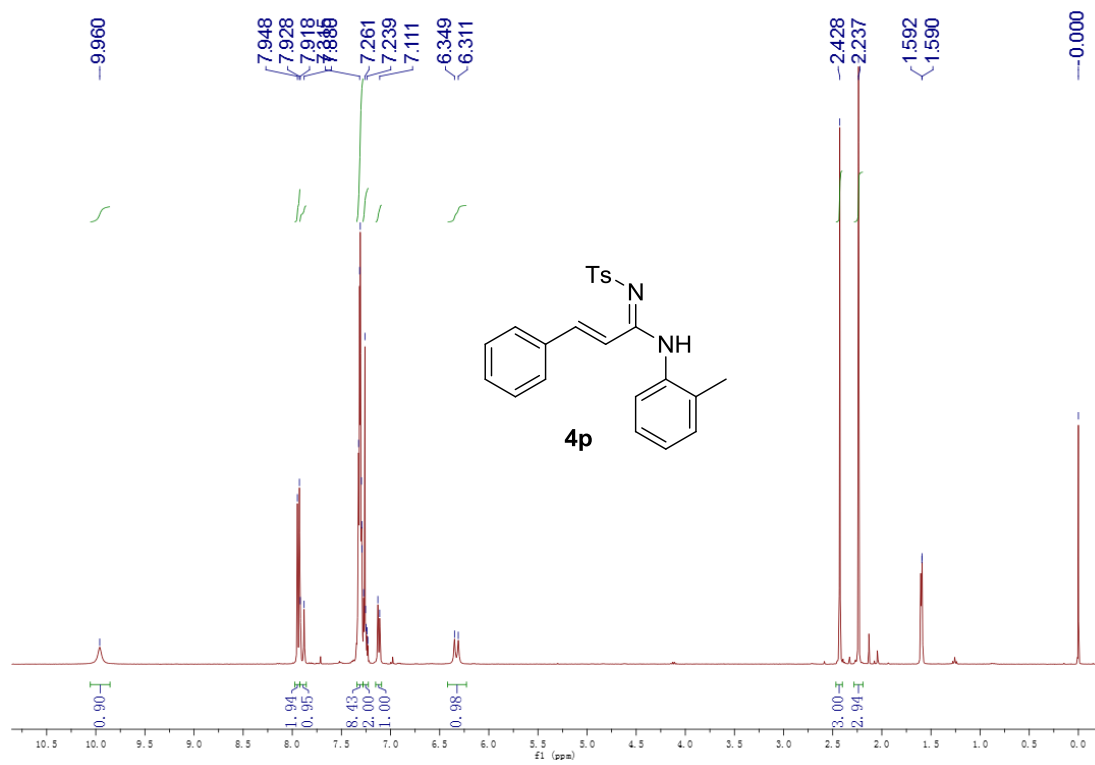
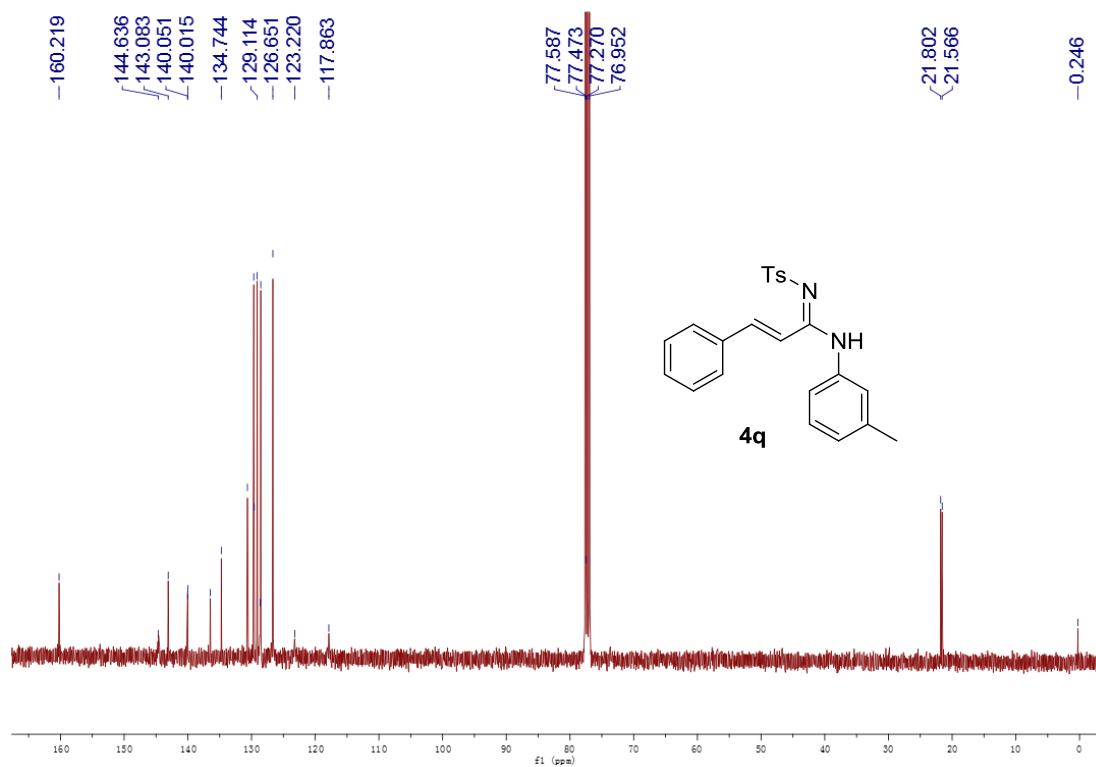
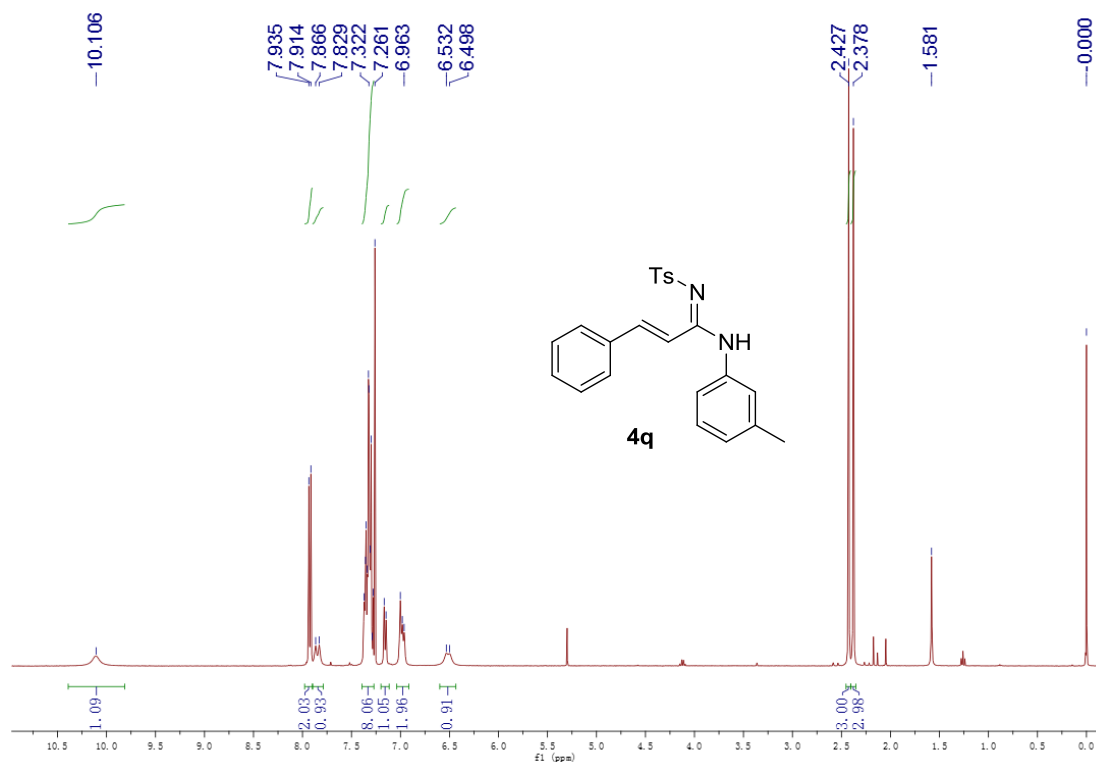
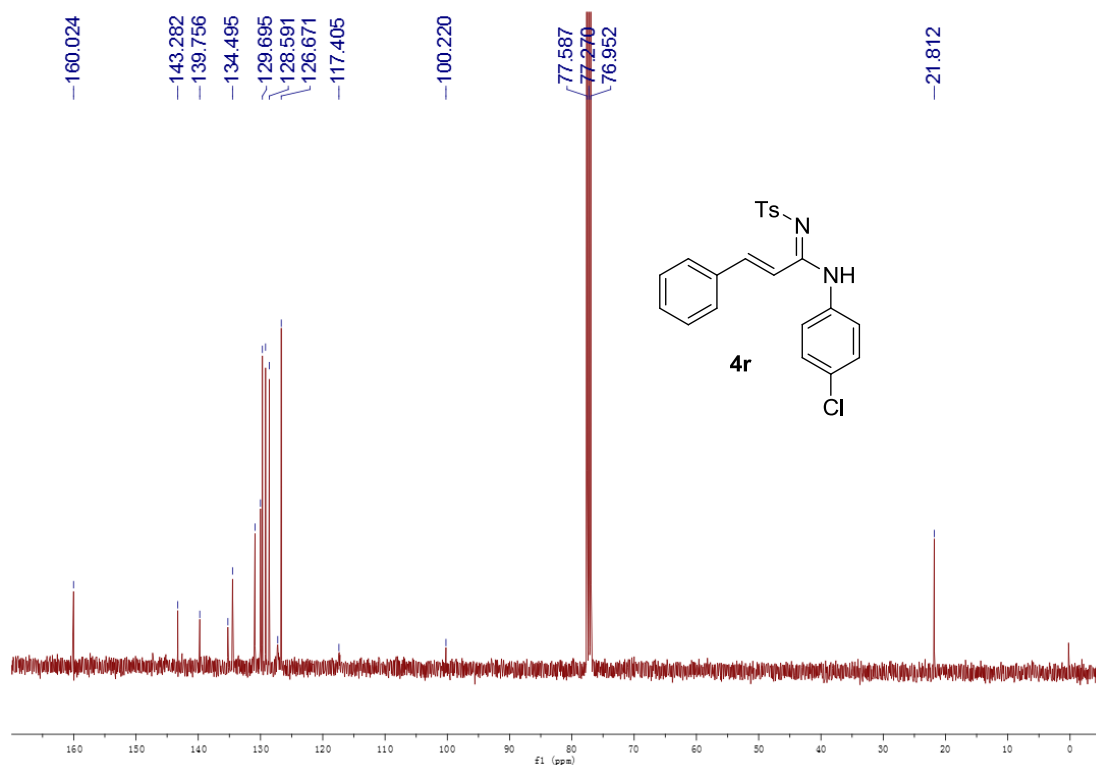
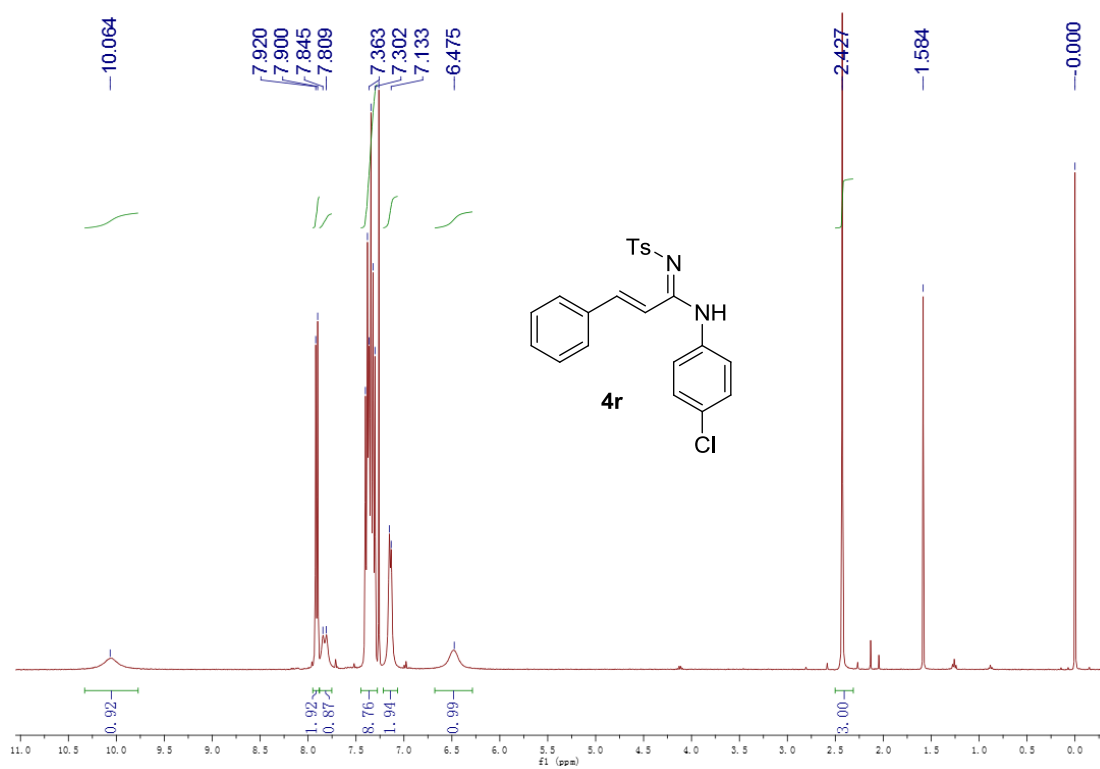


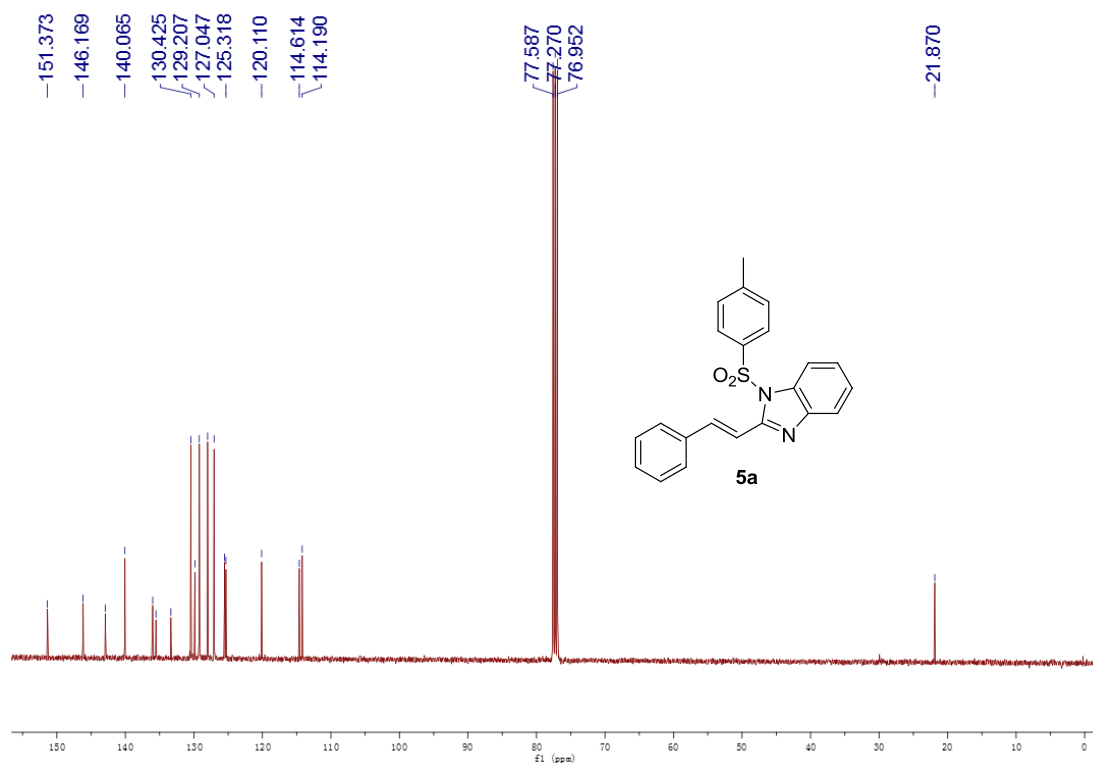
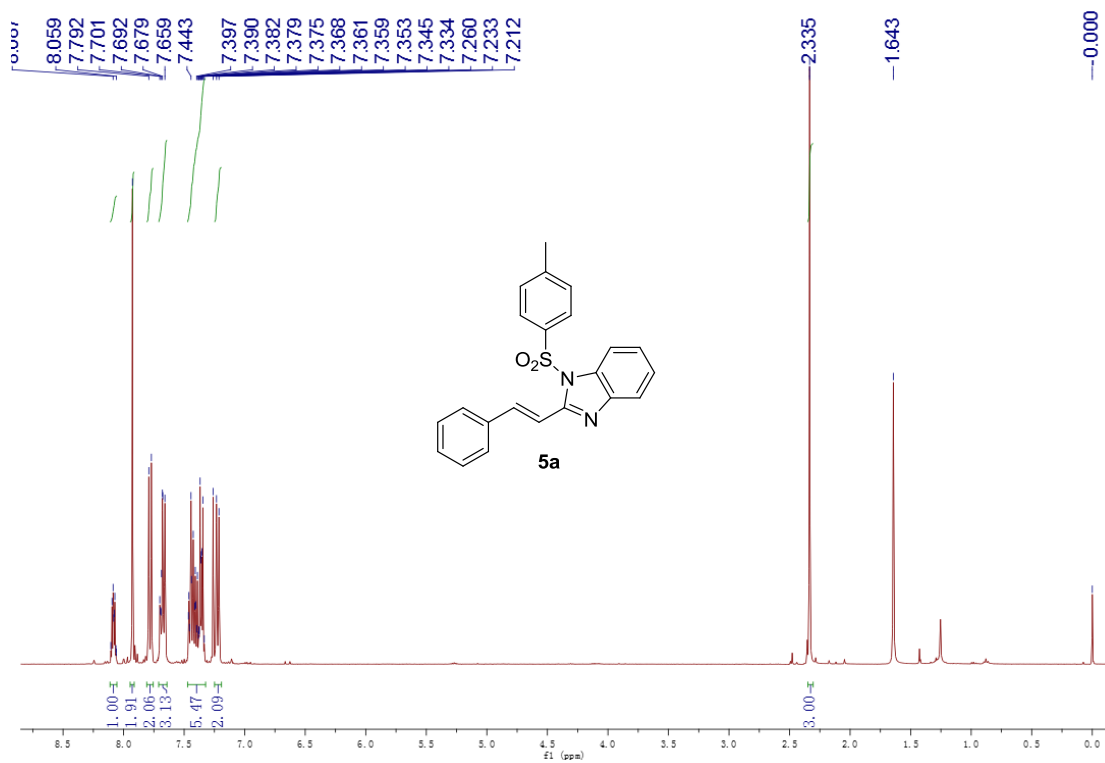
Figure S17  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4q**



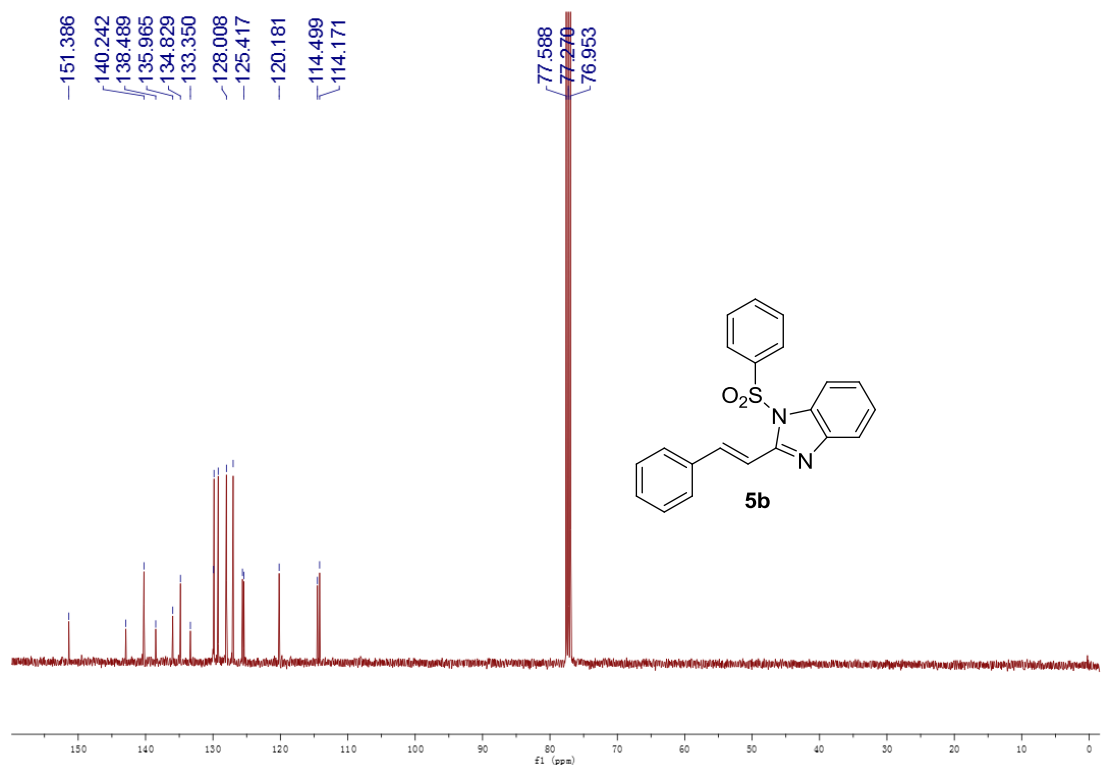
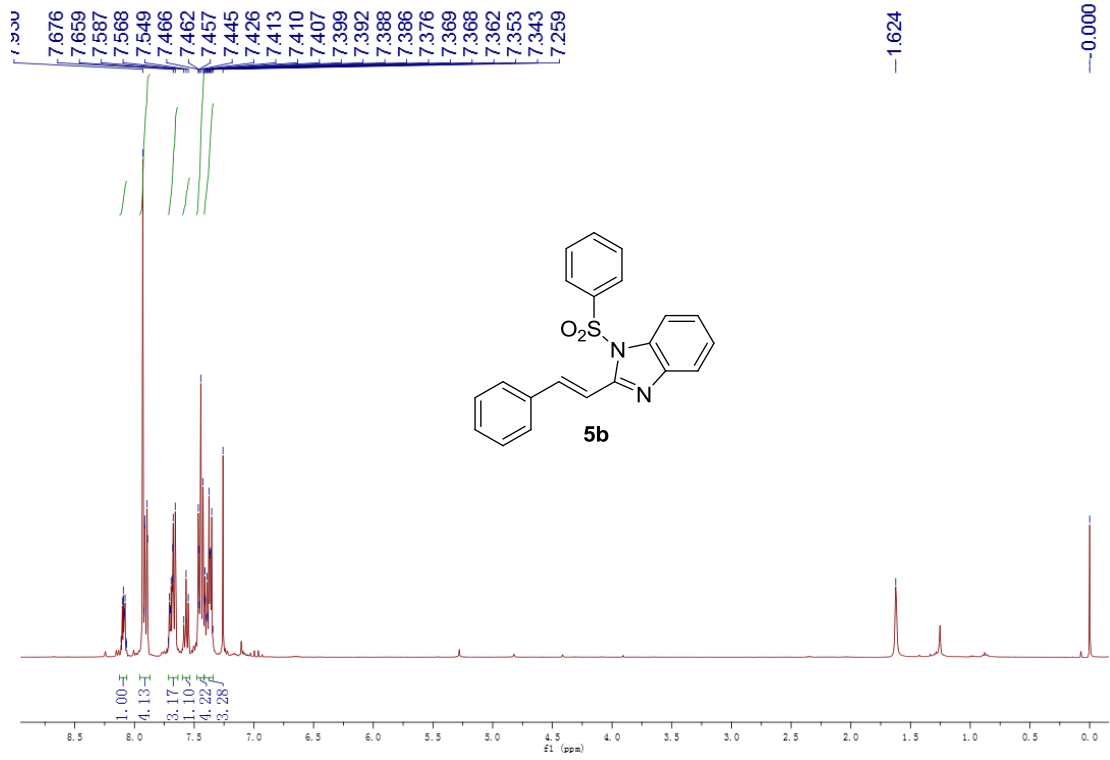
**Figure S18**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **4r**



**Figure S19**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5a**



**Figure S20**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5b**



**Figure S21**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5c**

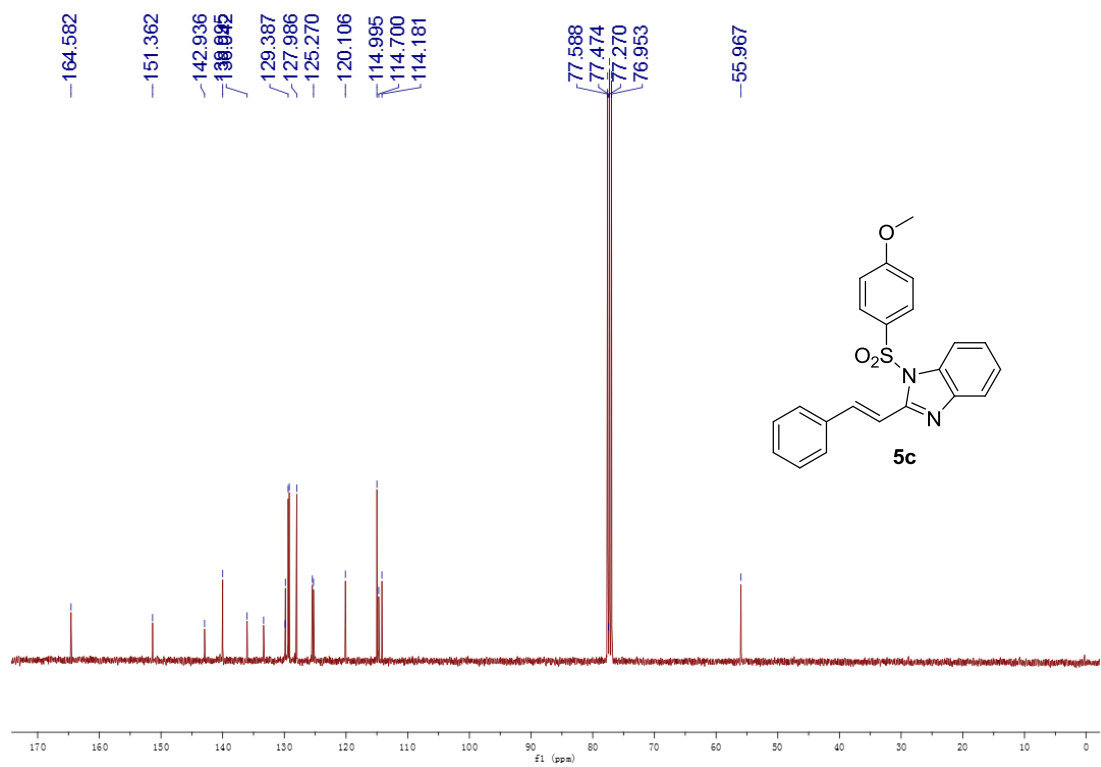
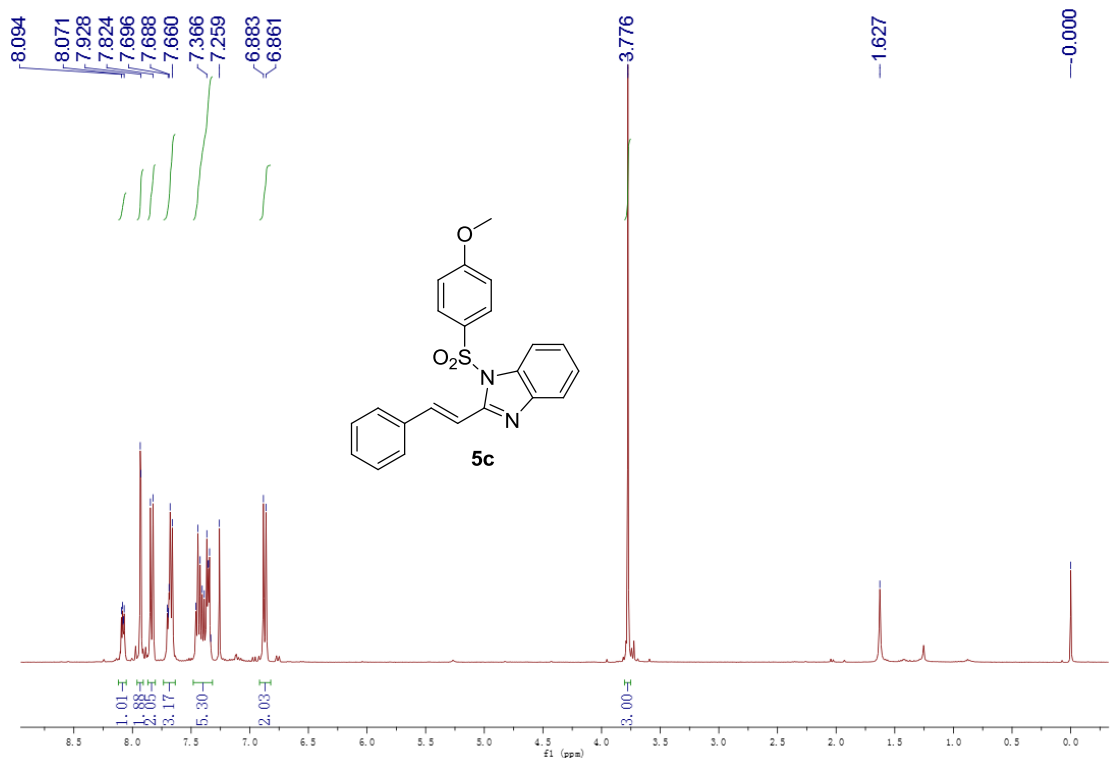


Figure S22  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5d**

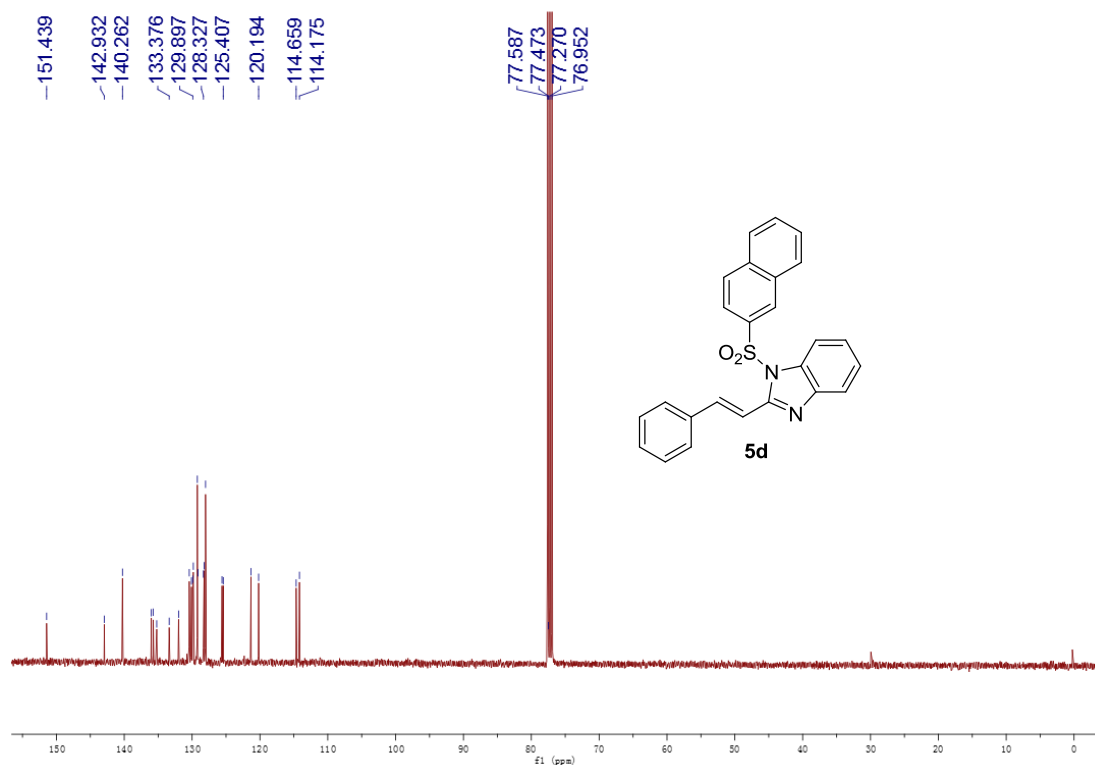
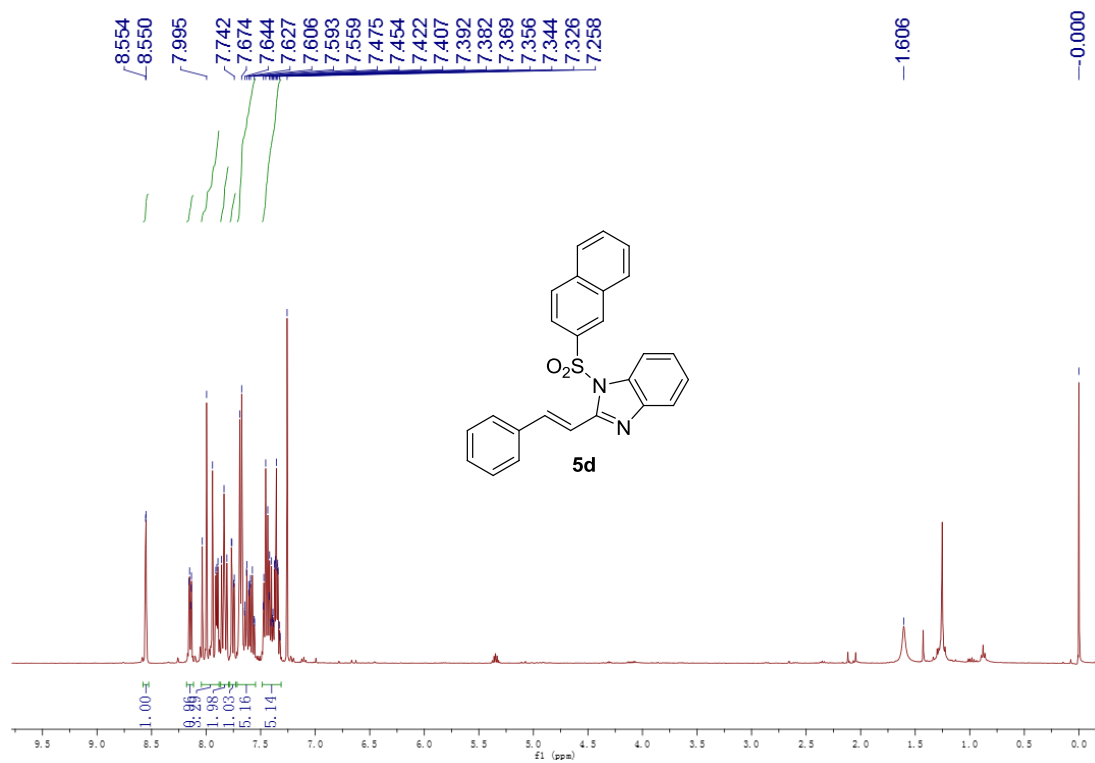


Figure S23  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5e**

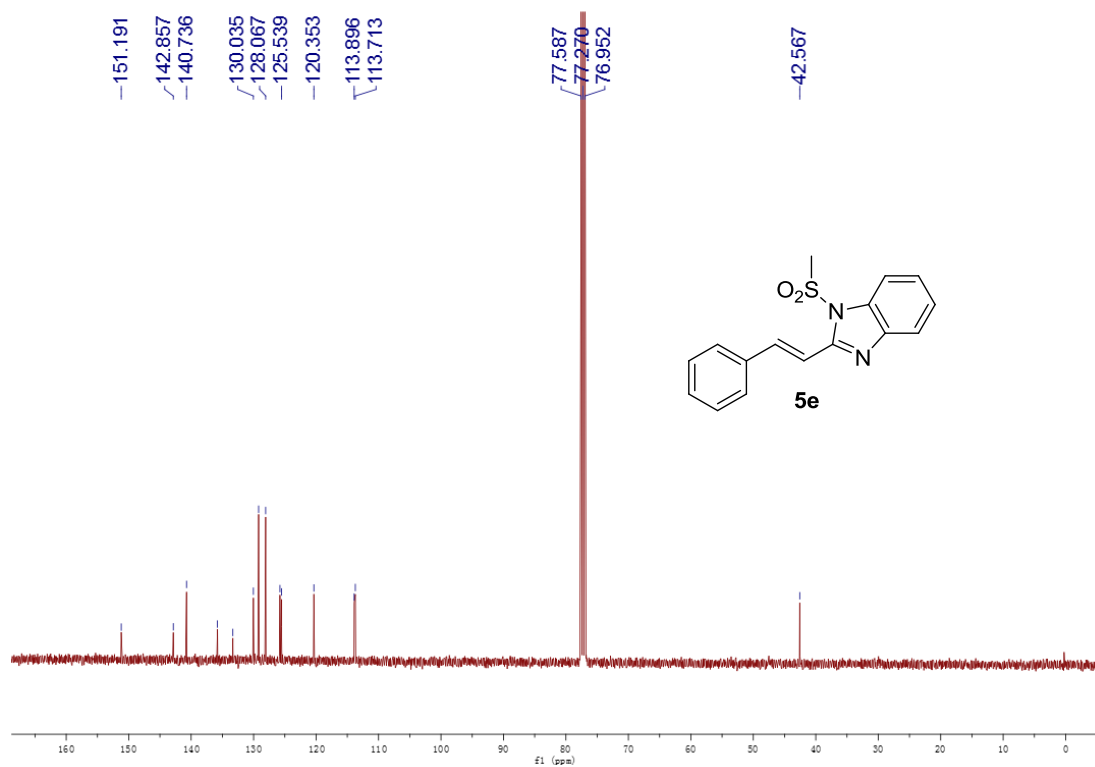
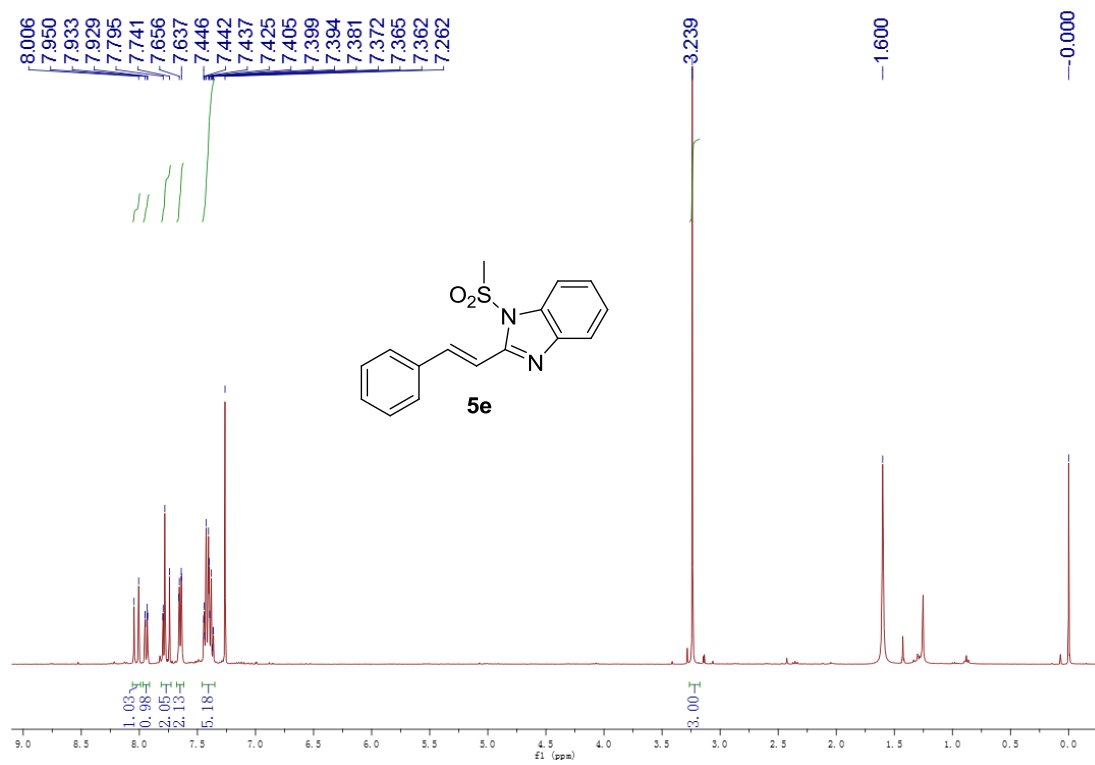




Figure S24  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5f**

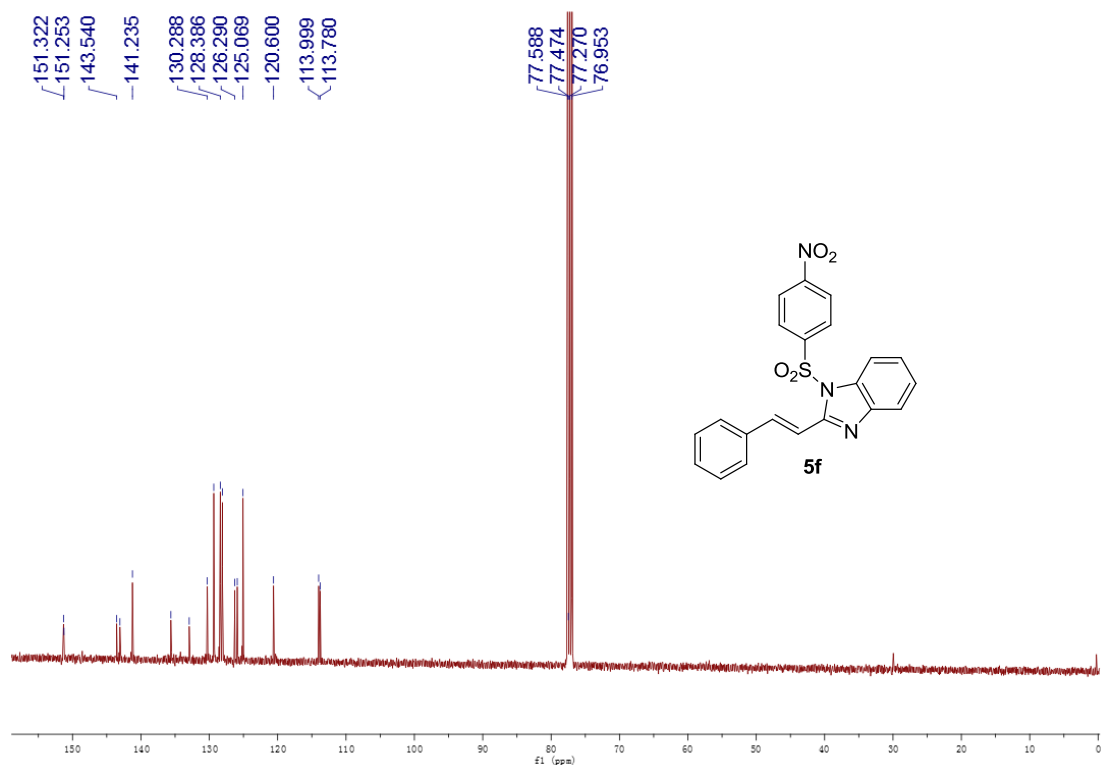
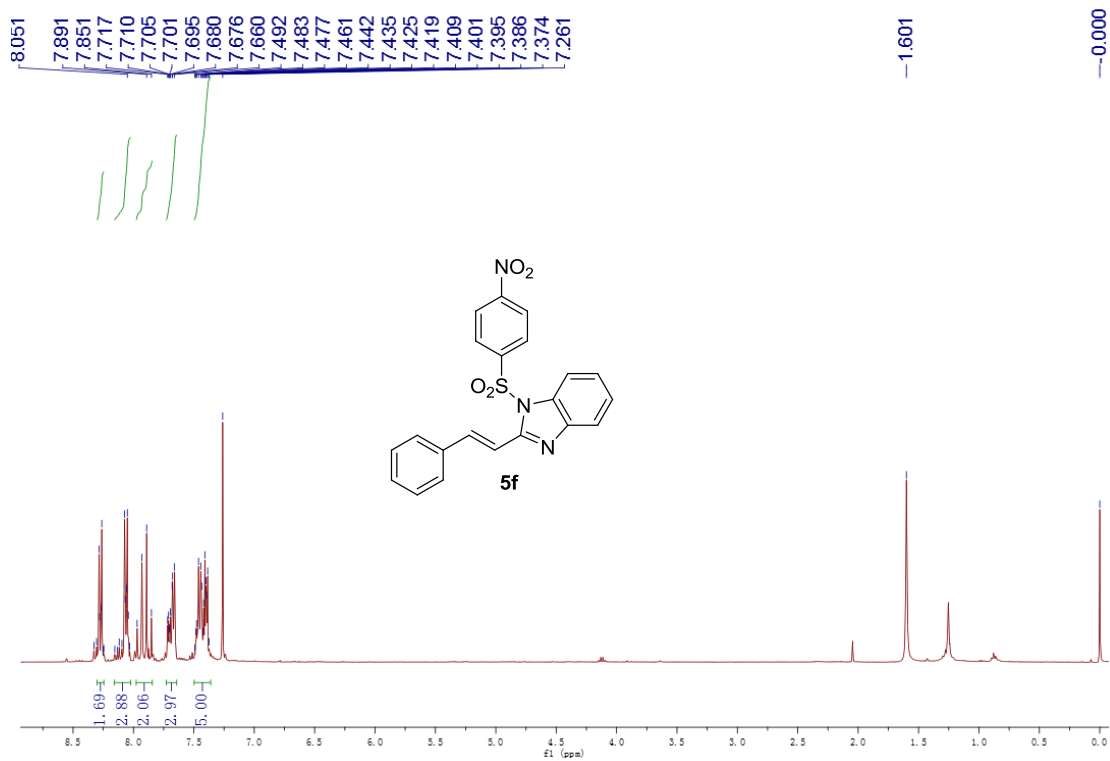
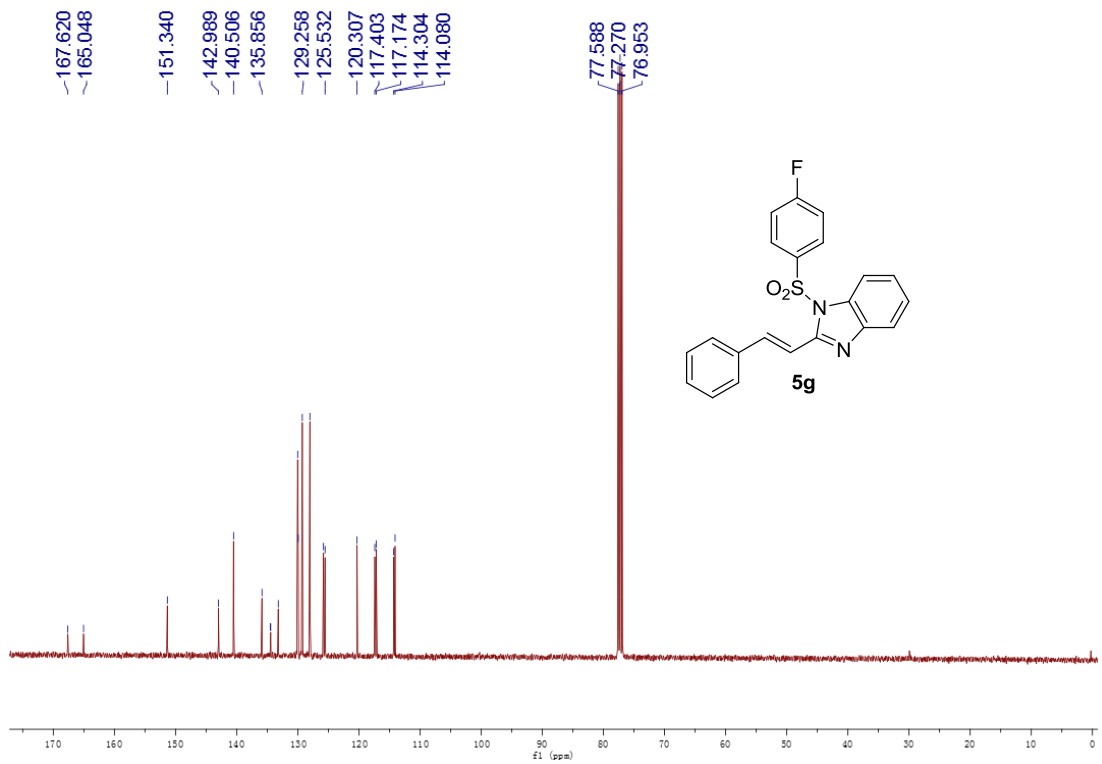
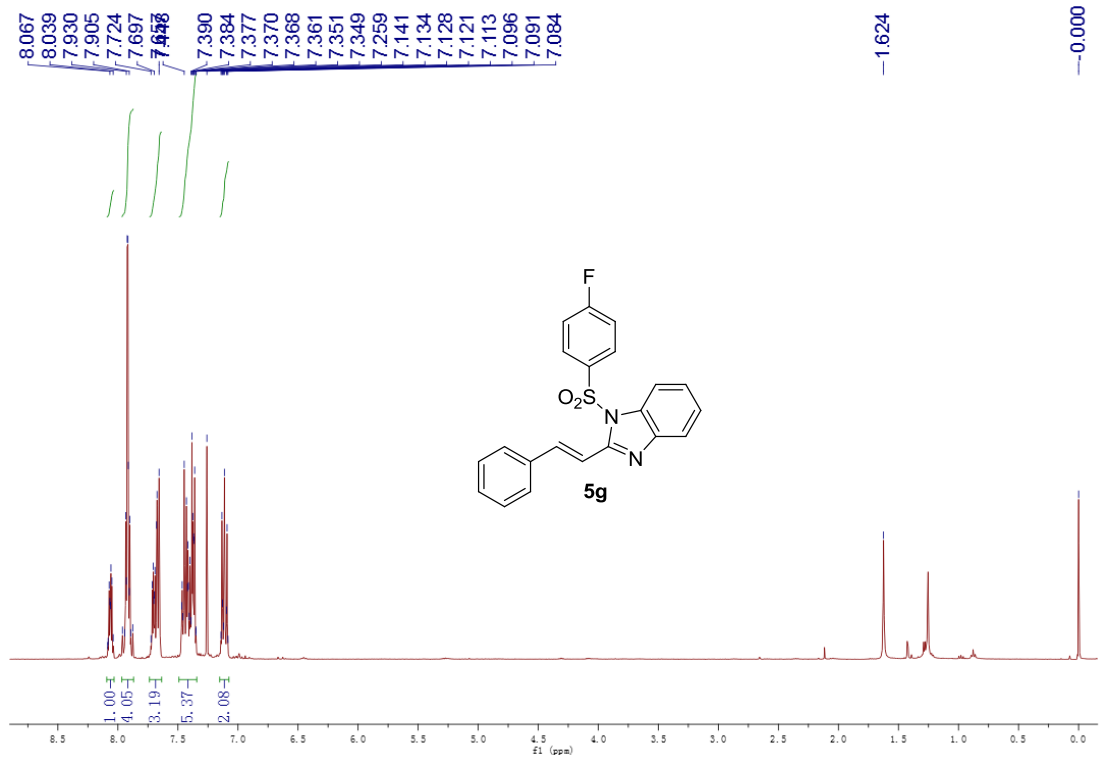
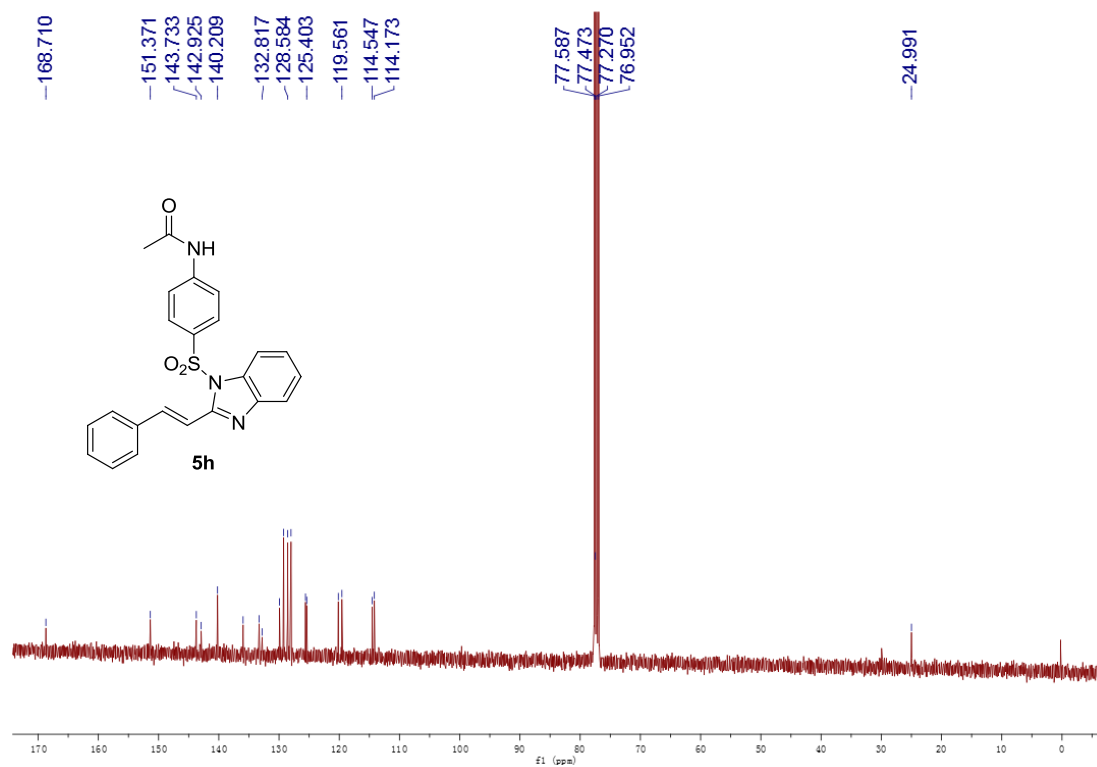
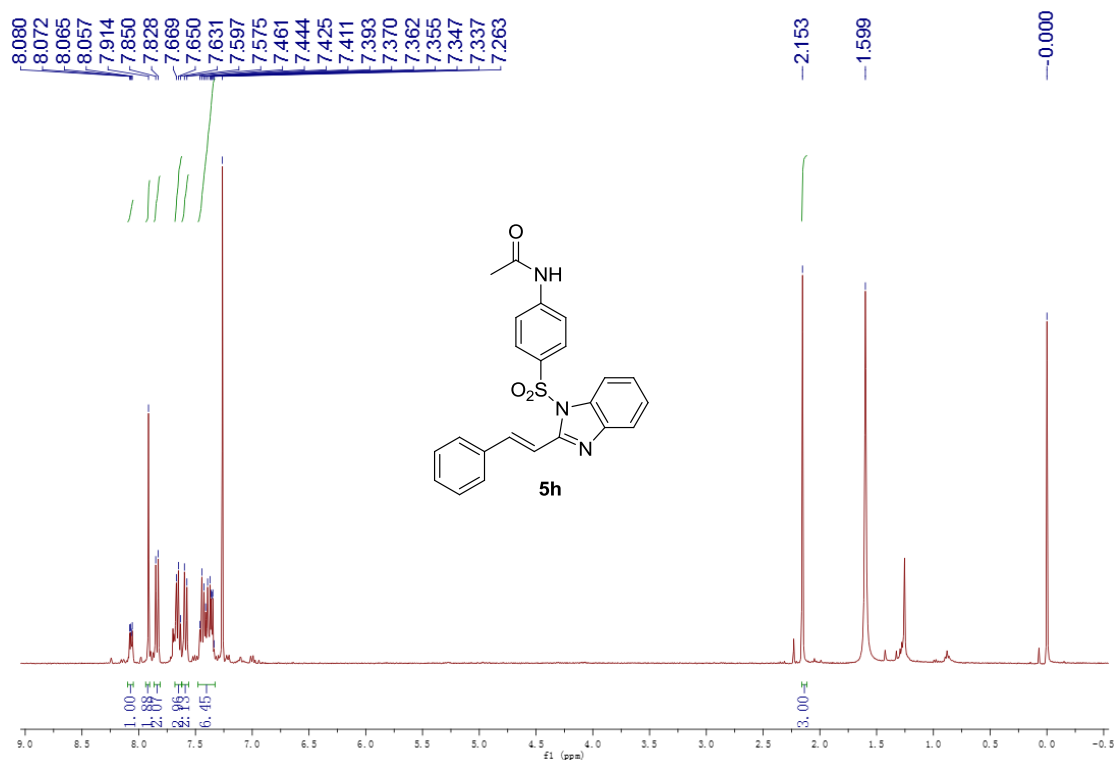


Figure S25  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5g**



**Figure S26**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5h**



**Figure S27**  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5i**

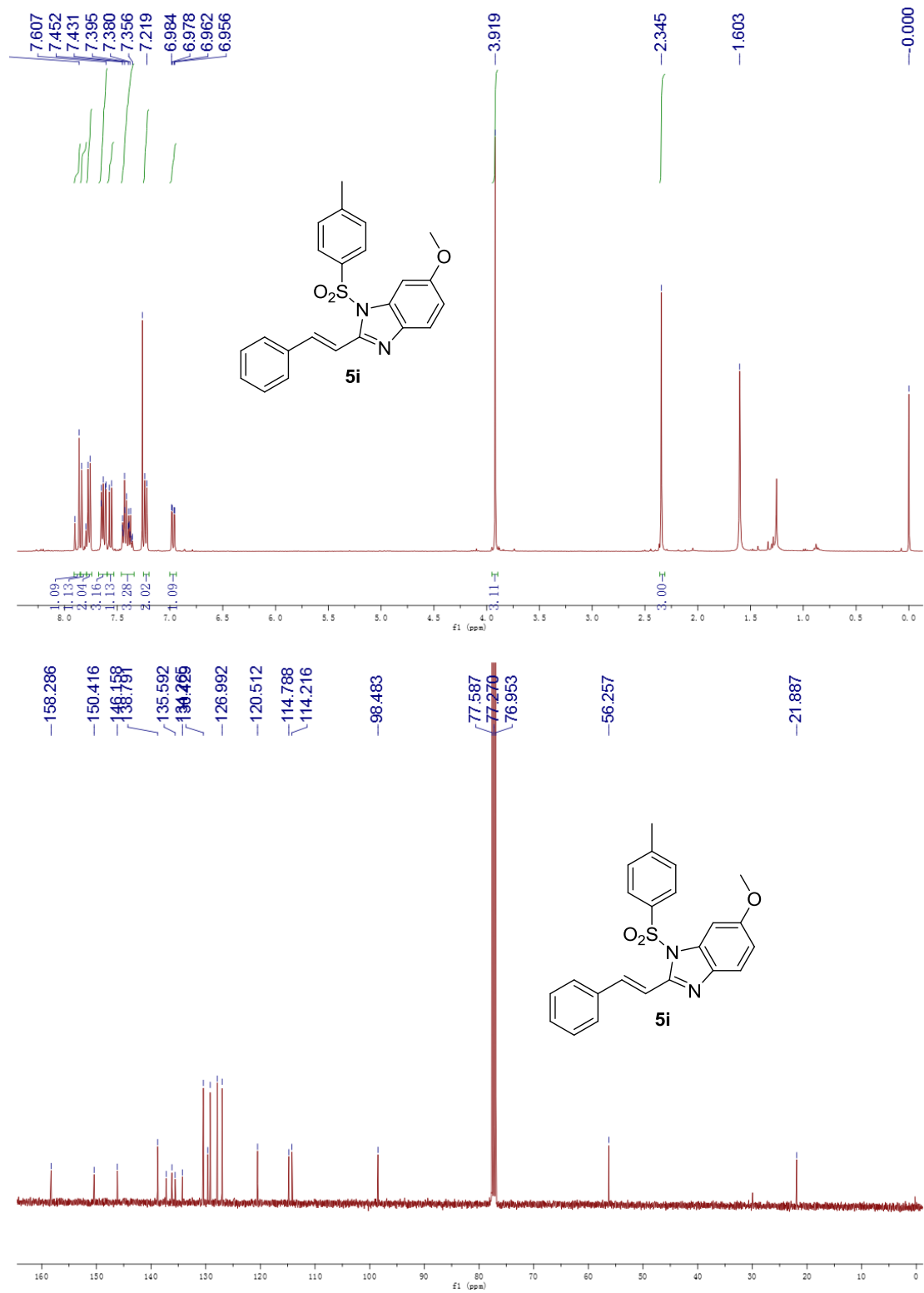


Figure S28  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5j**

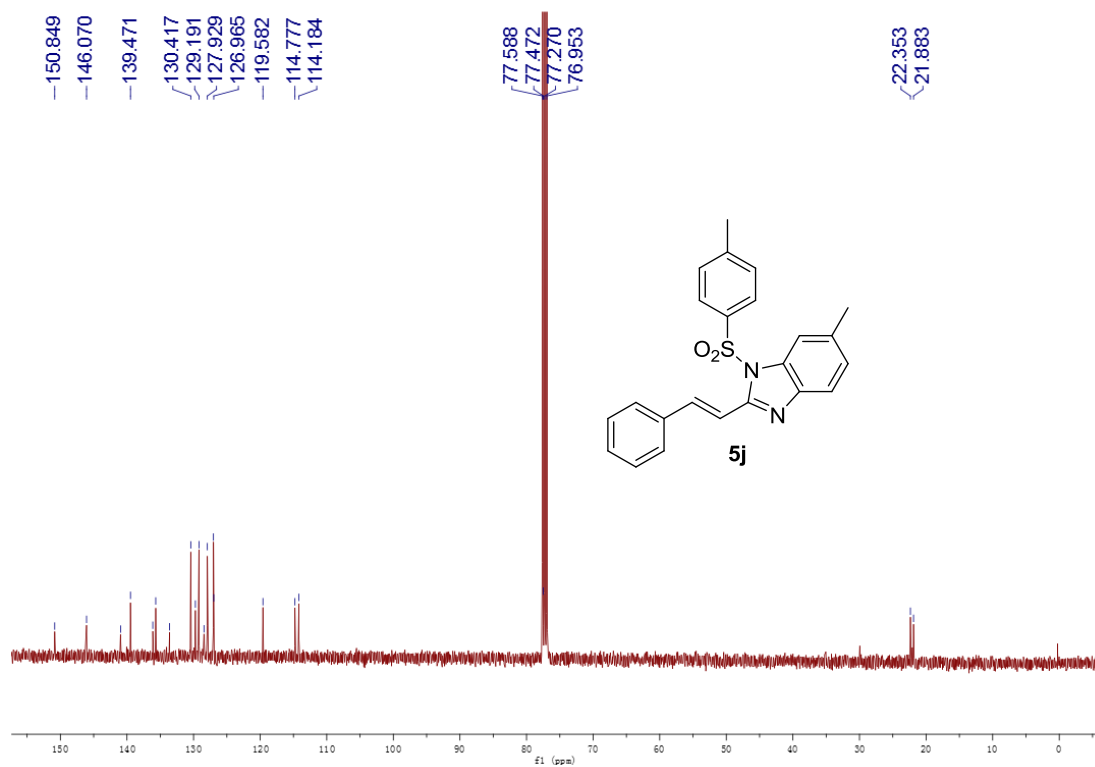
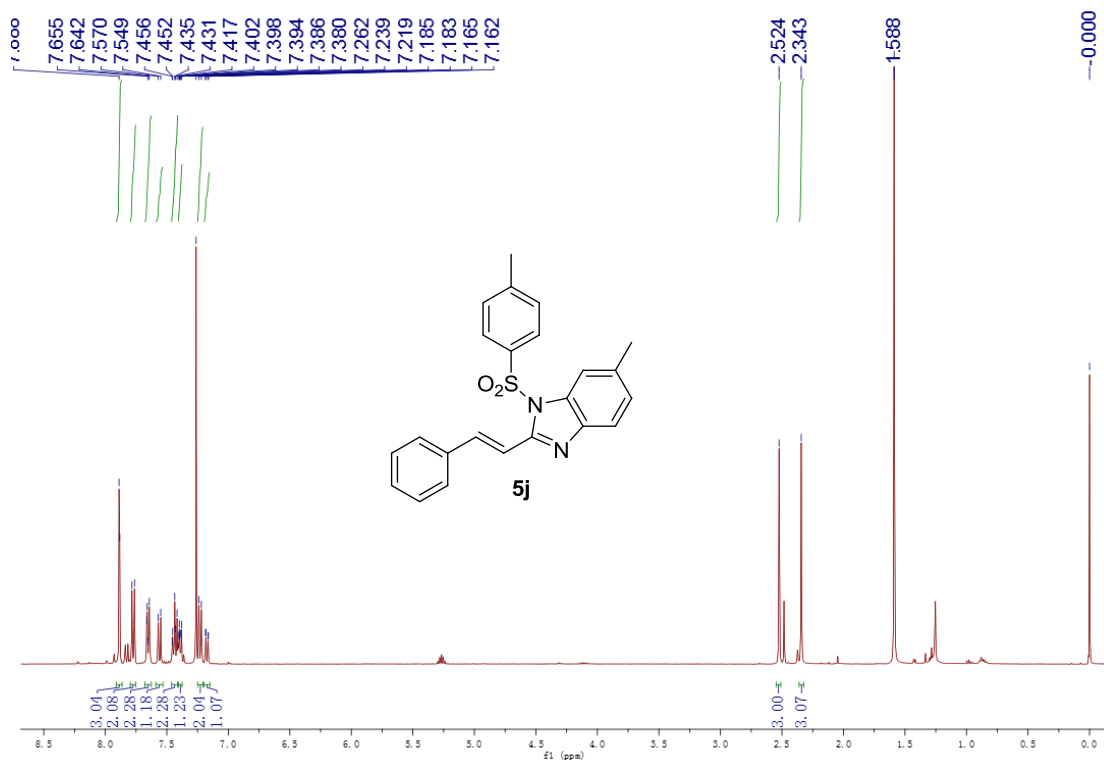


Figure S29  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of **5k**

