

Supporting Information

A Regioselective Pd-catalyzed α -Alkylation of Furans Using Alkyl Iodides

Jiaqi Yuan,^{ab} Xiaofei Zhang^{*a} and Chunhao Yang^{*ab}

^aState Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 555 Zu Chong Zhi Road, Shanghai 201203, China

^bSchool of Pharmacy, University of Chinese Academy of Sciences, No. 19A Yuquan Road, Beijing 100049, China.

*E-mail: chyang@simm.ac.cn(C.Yang); xiaofeizhang@simm.ac.cn(X. Zhang) .

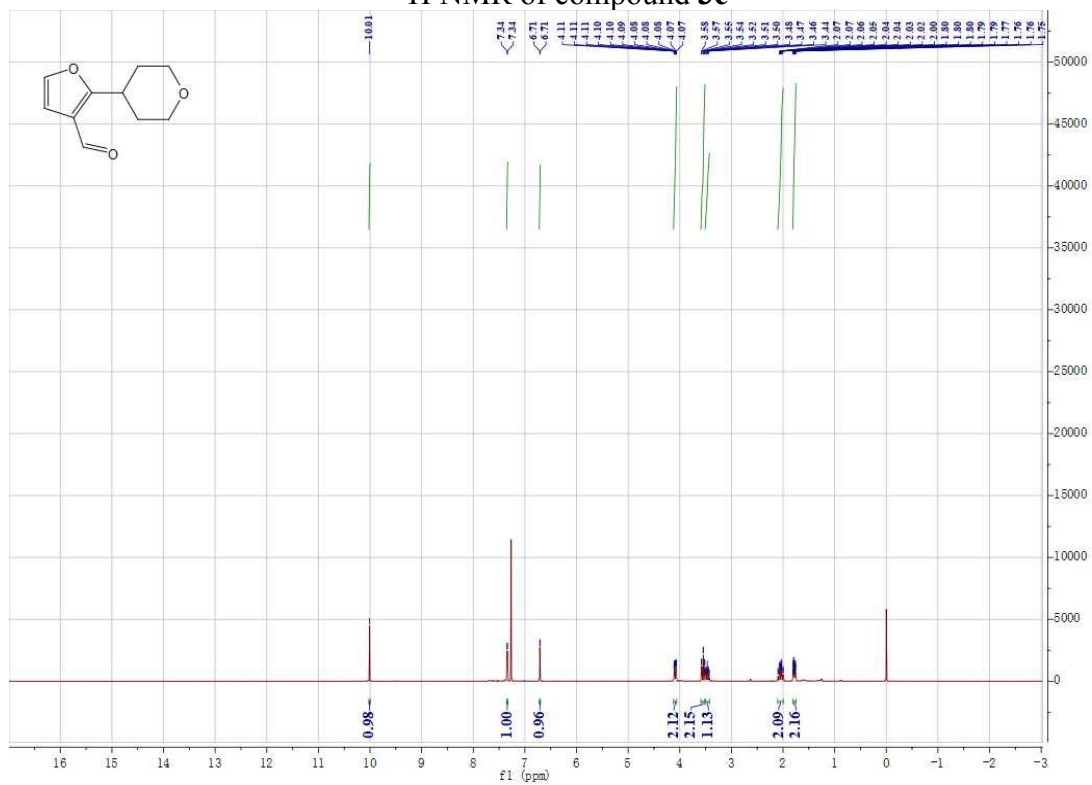
Table of Contents

I.	General experimental procedures.....	2
II.	¹ H and ¹³ C NMR spectra	3

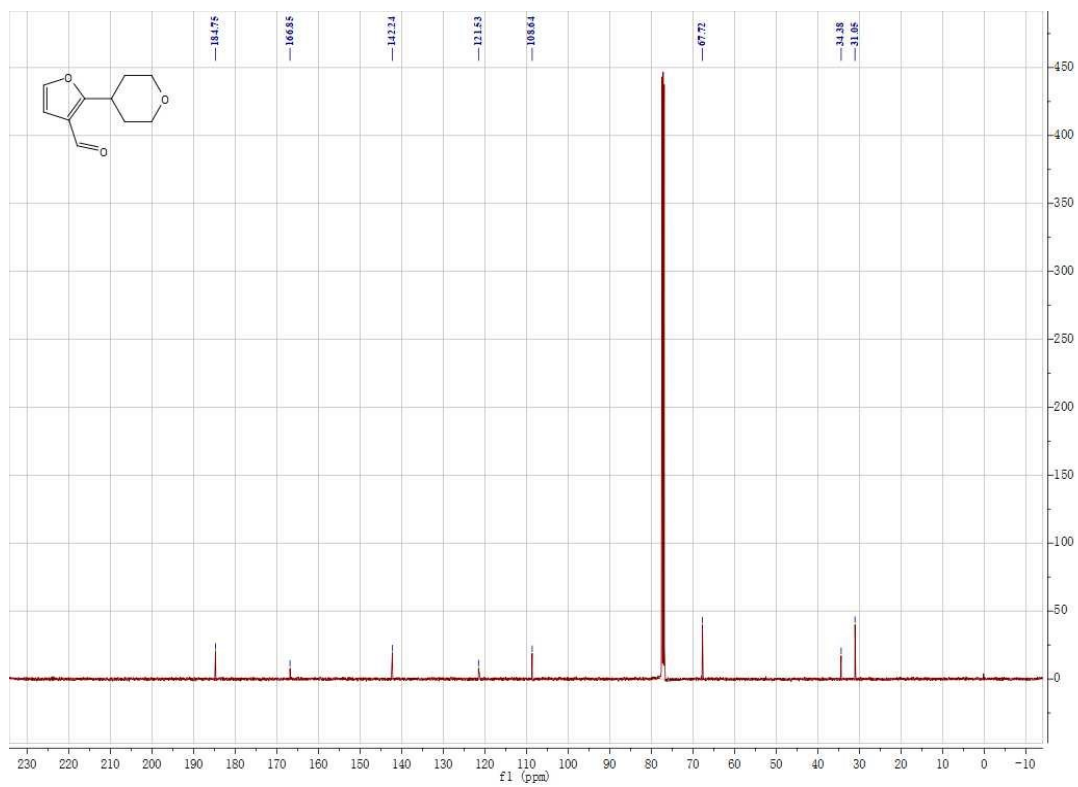
I. General experimental procedures

Compound **2y** was reported compound and synthesized according to the literature procedure (*Angew. Chem. Int. Ed.* **2014**, *53*, 13573-13577).

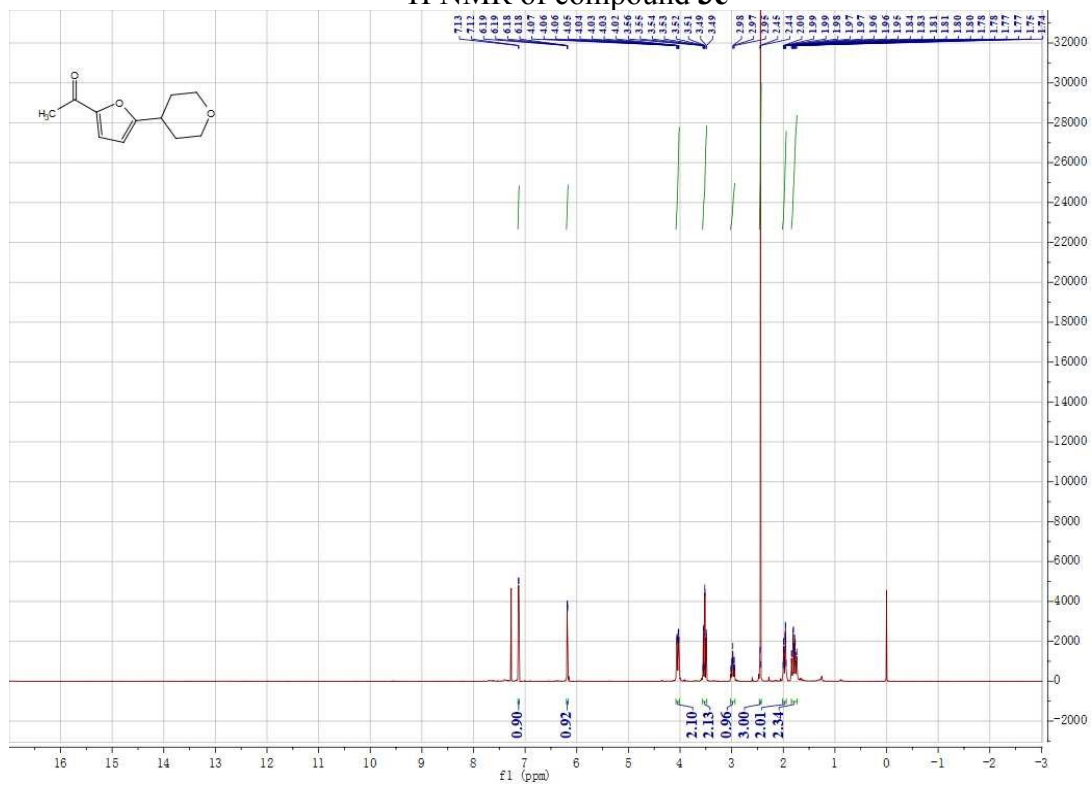
¹H NMR of compound 3c



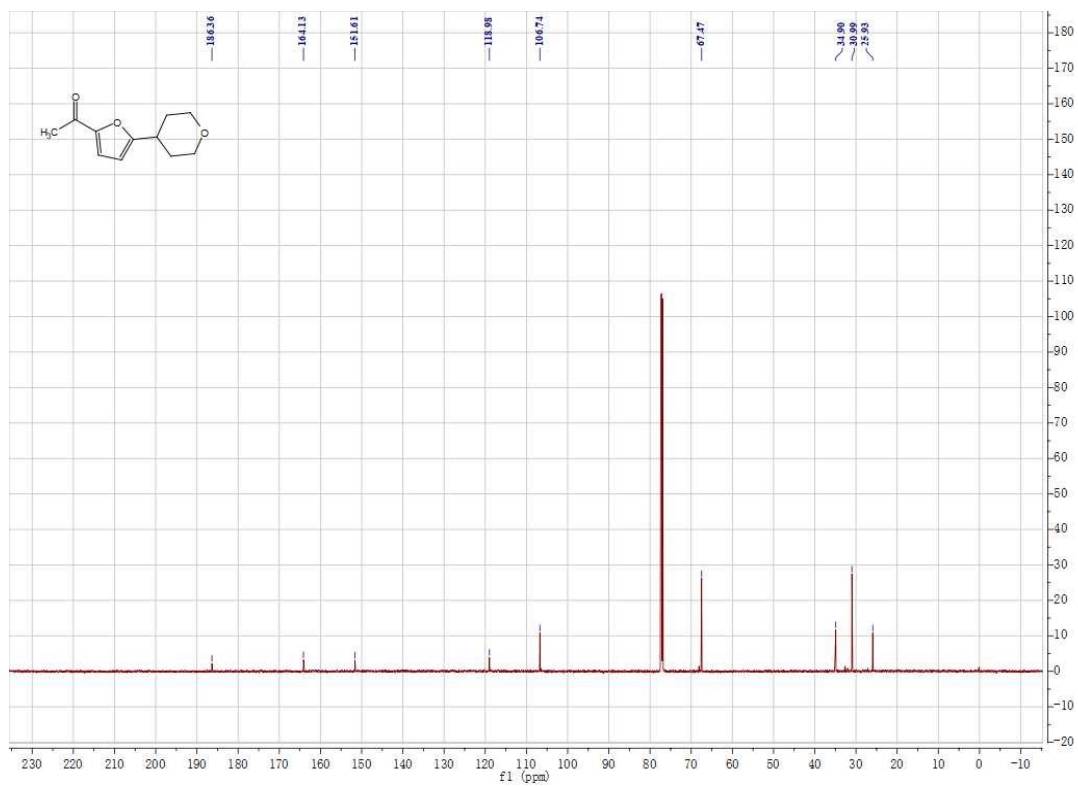
¹³C NMR of compound 3c



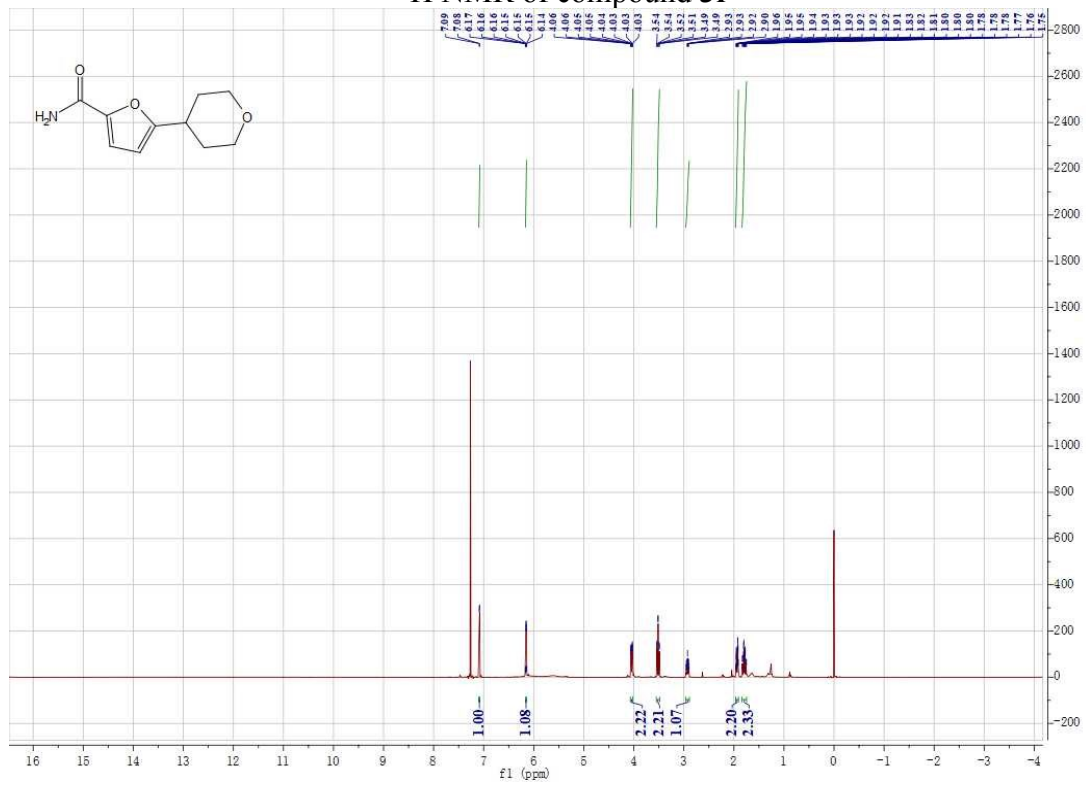
^1H NMR of compound **3e**



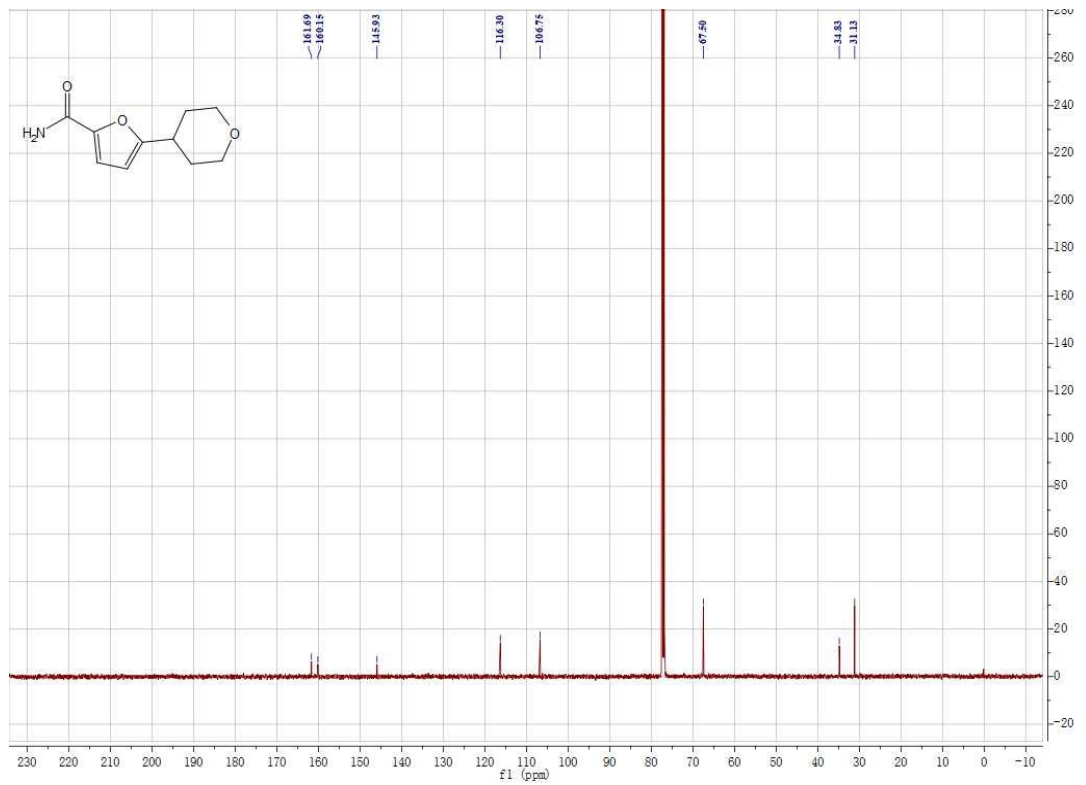
^{13}C NMR of compound **3e**



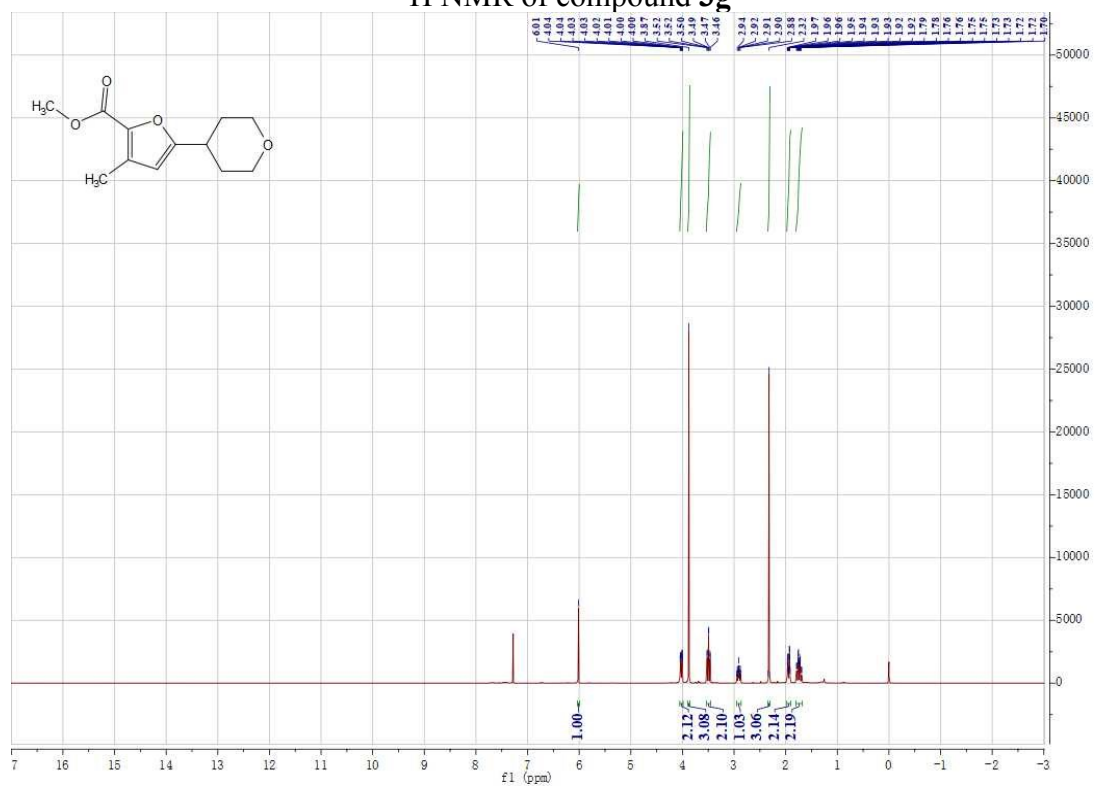
^1H NMR of compound **3f**



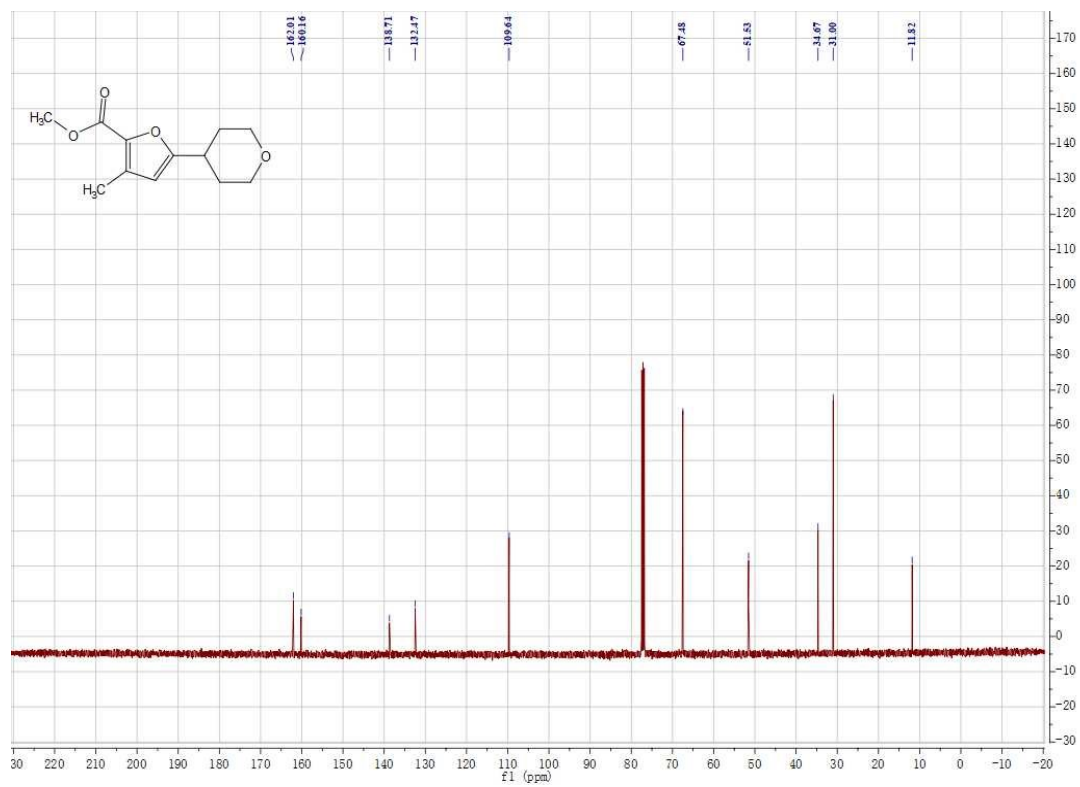
^{13}C NMR of compound **3f**



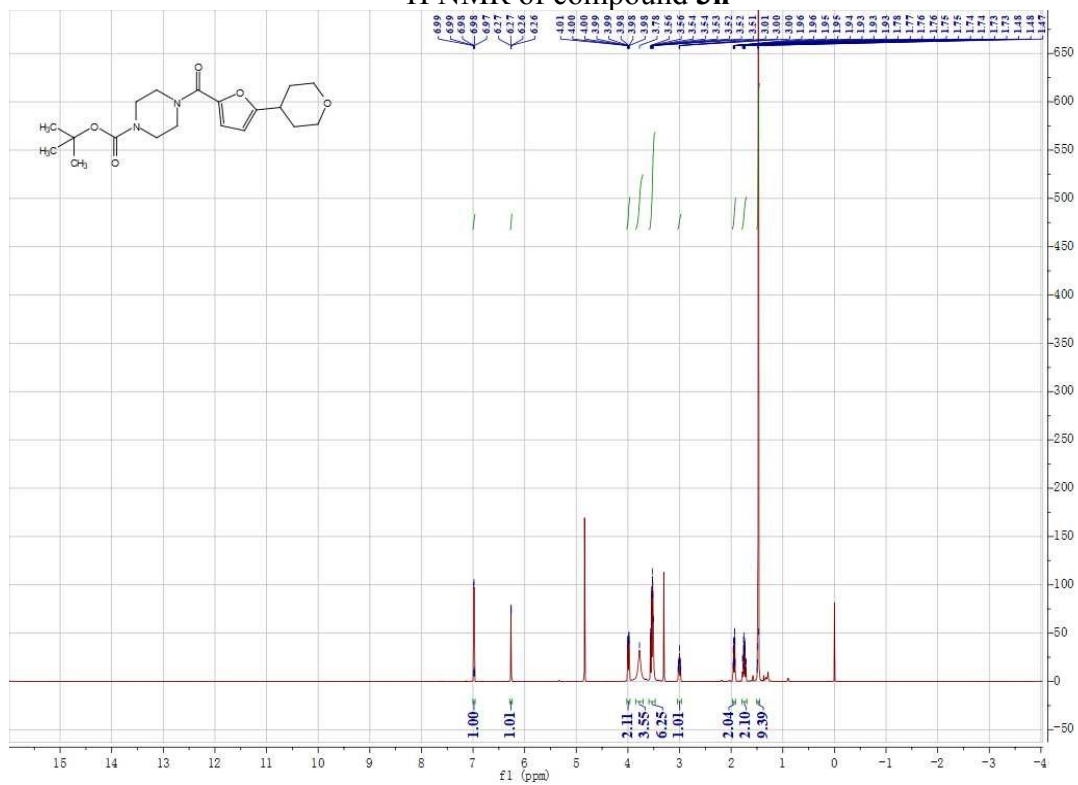
¹H NMR of compound **3g**



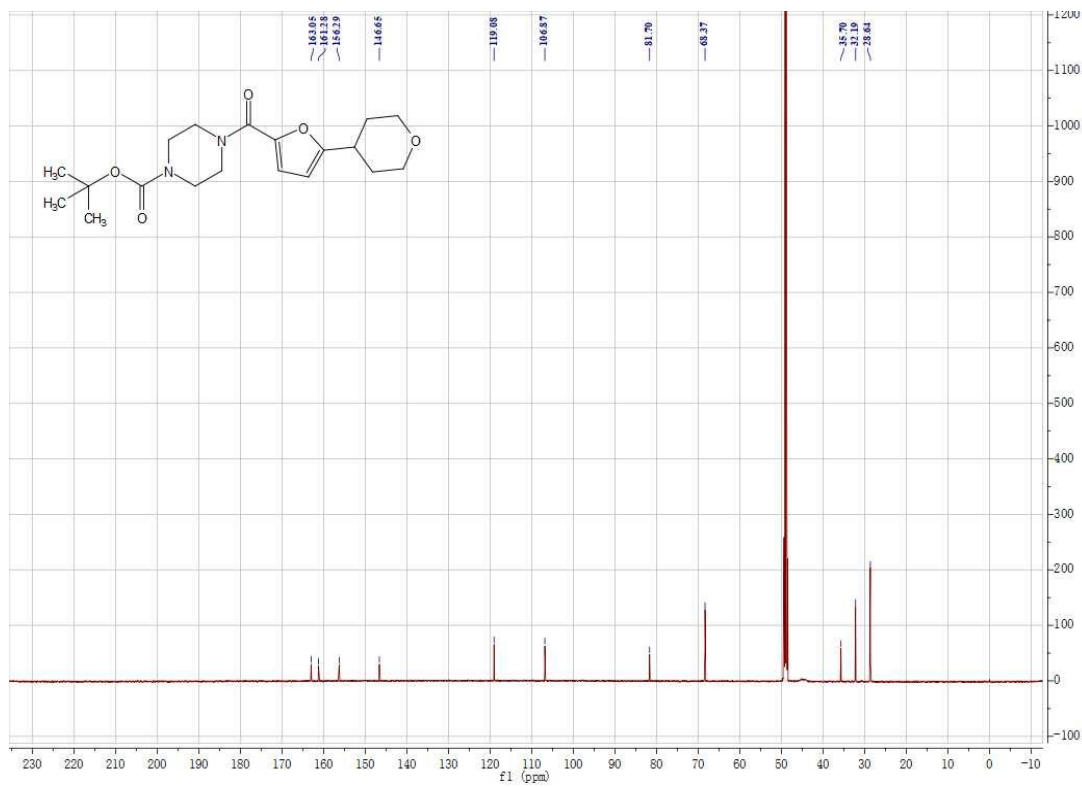
¹³C NMR of compound **3g**



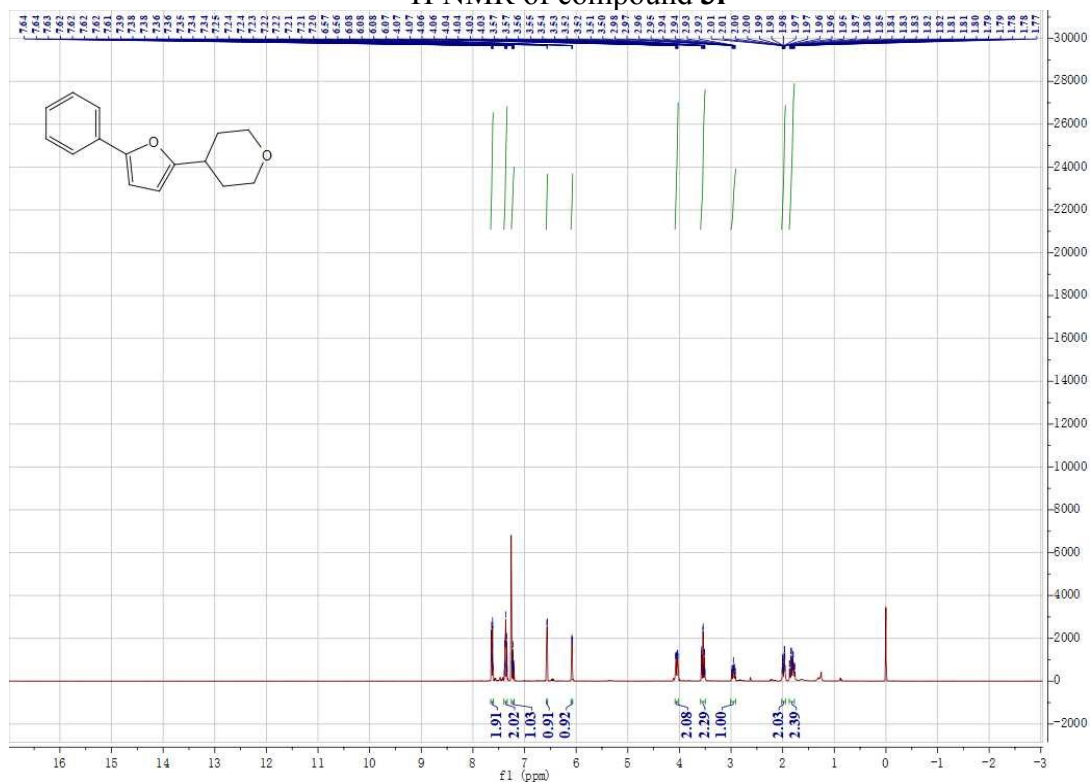
¹H NMR of compound 3h



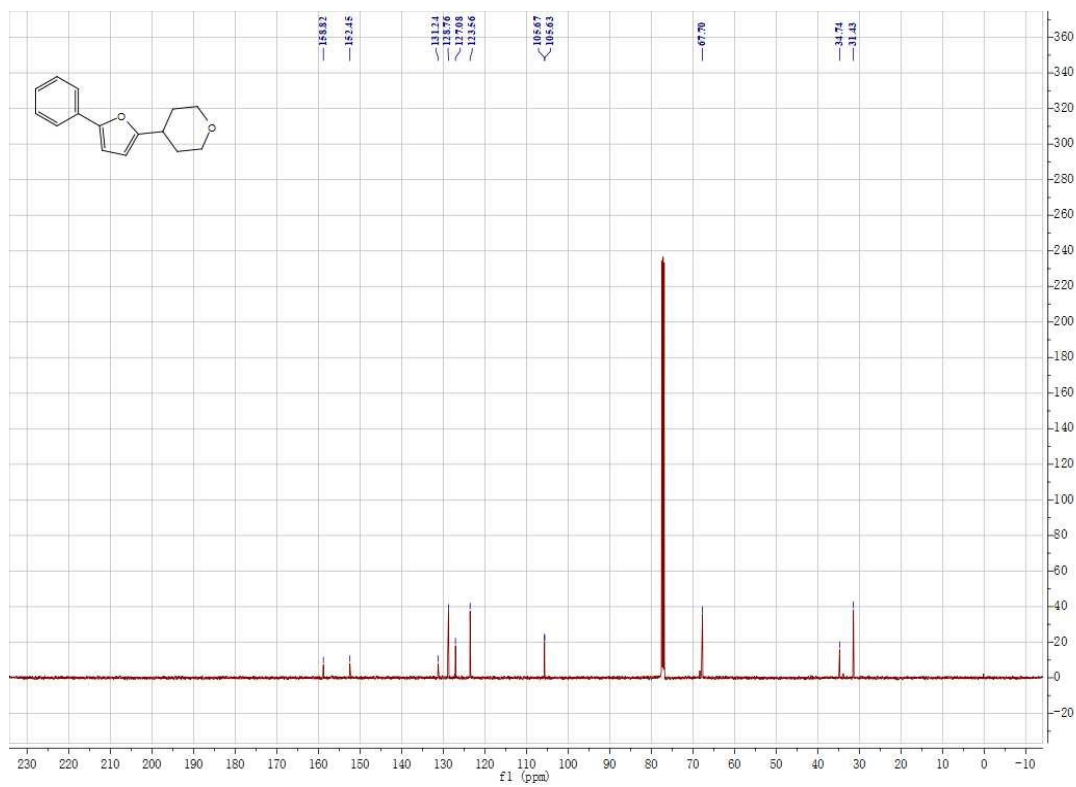
¹³C NMR of compound 3h



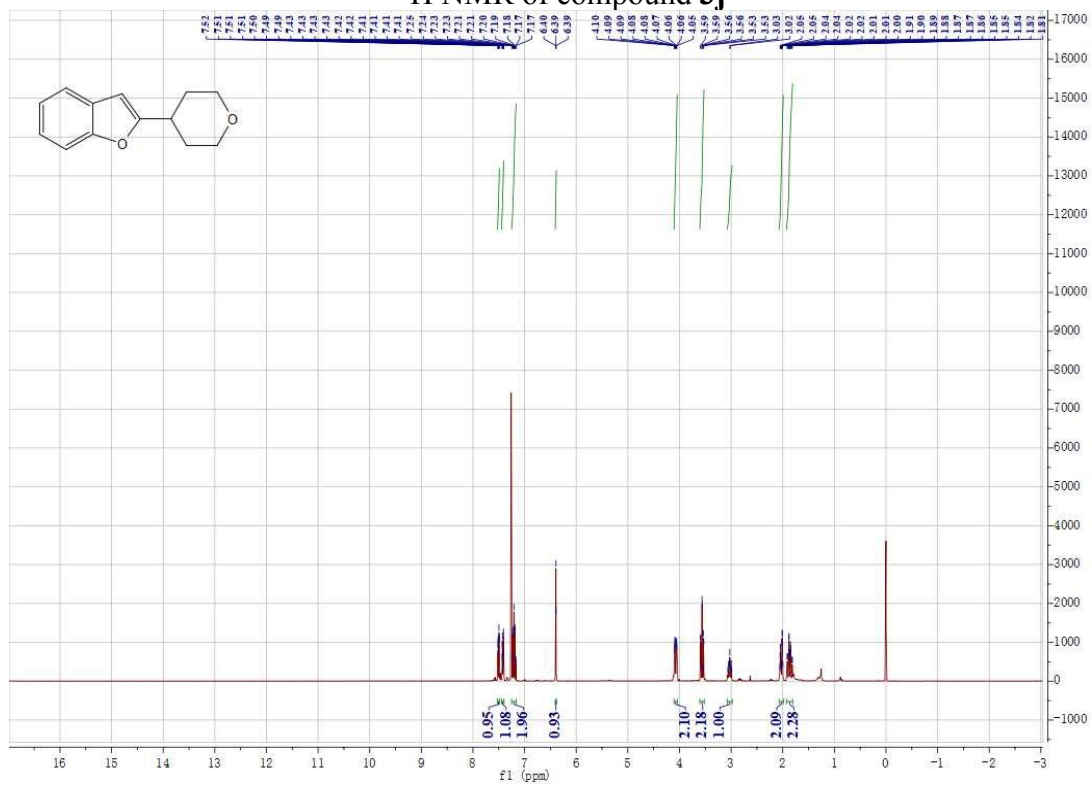
¹H NMR of compound 3i



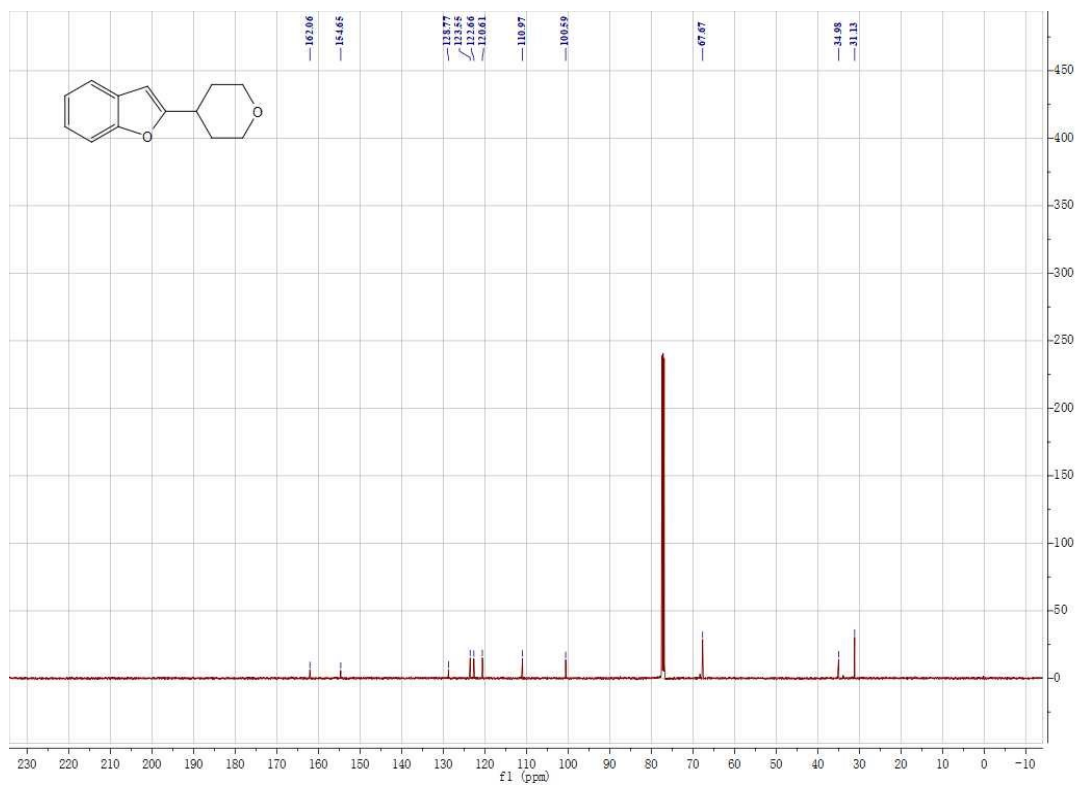
¹³C NMR of compound 3i



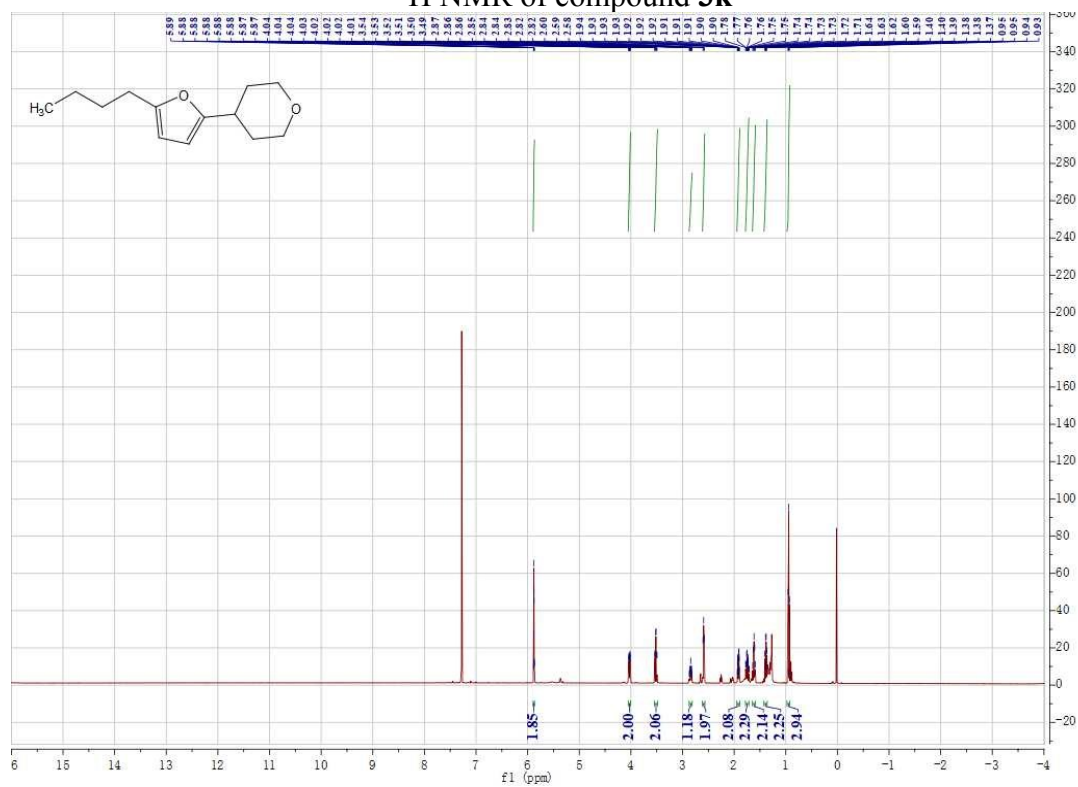
¹H NMR of compound 3j



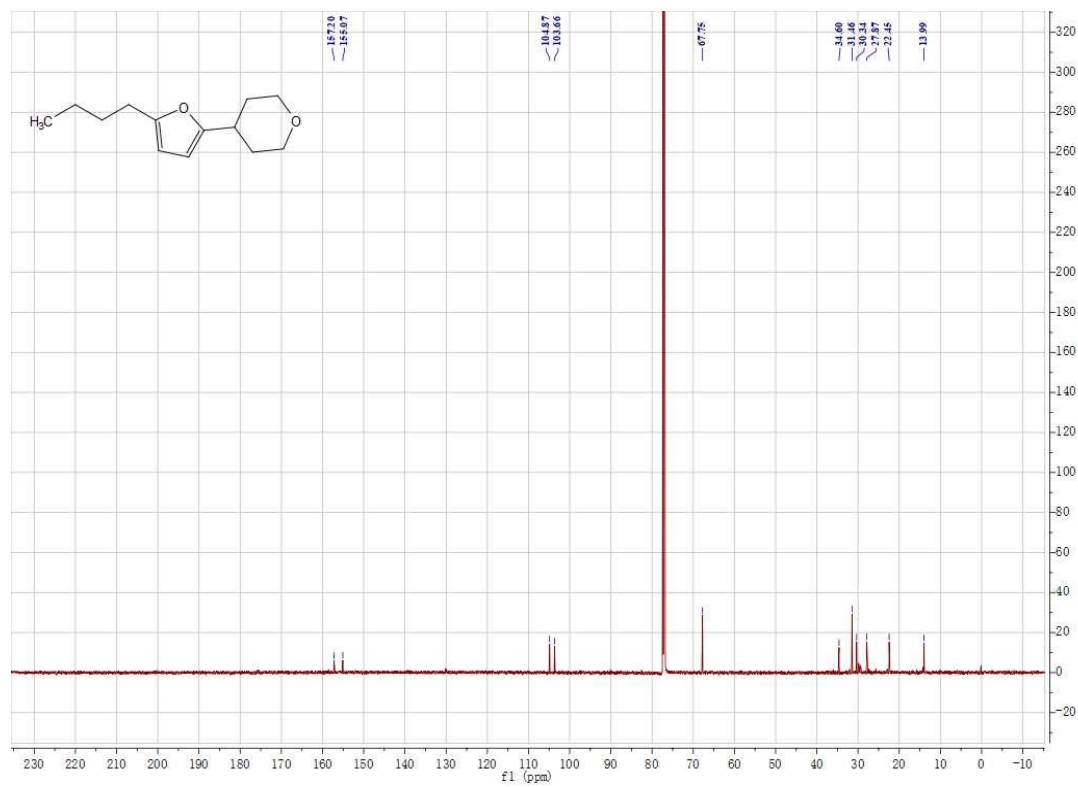
¹³C NMR of compound 3j



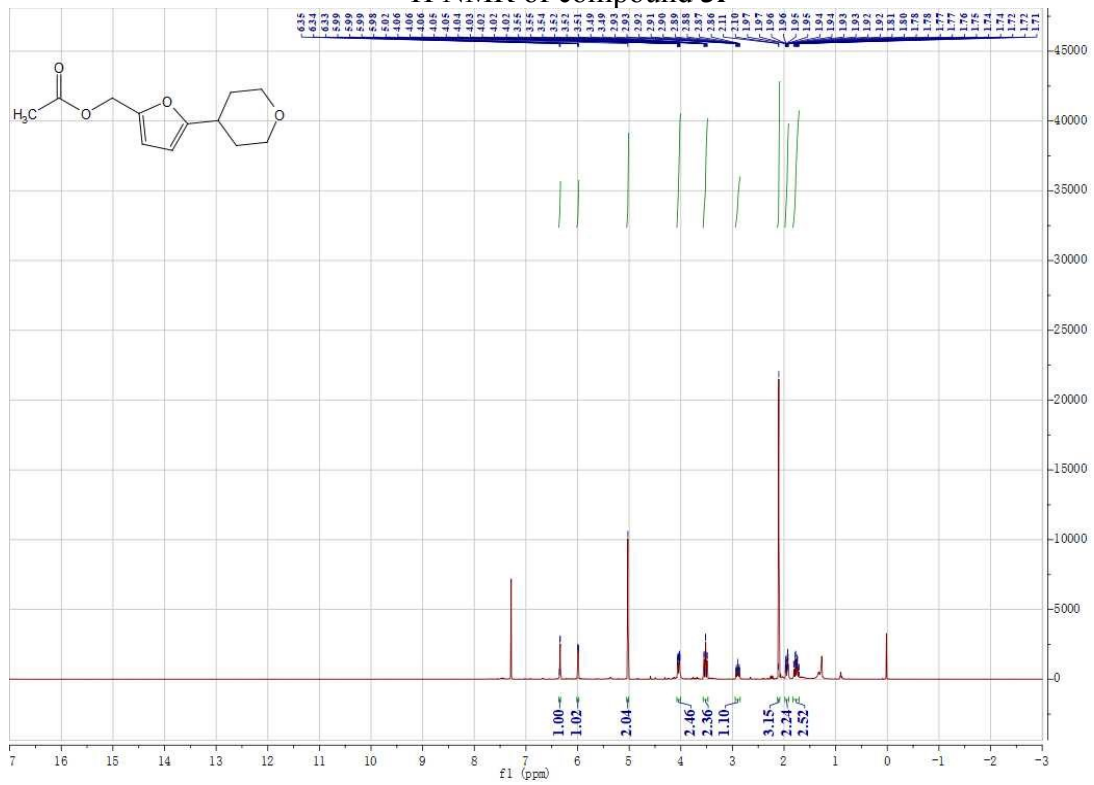
¹H NMR of compound 3k



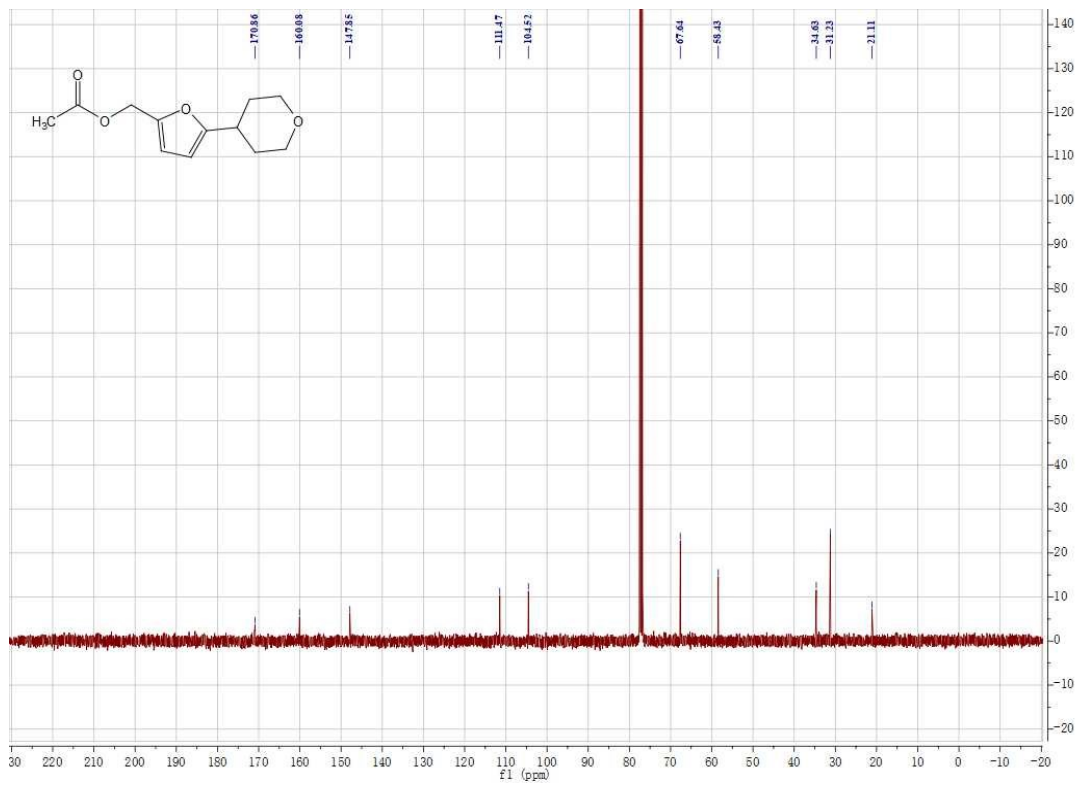
¹³C NMR of compound 3k



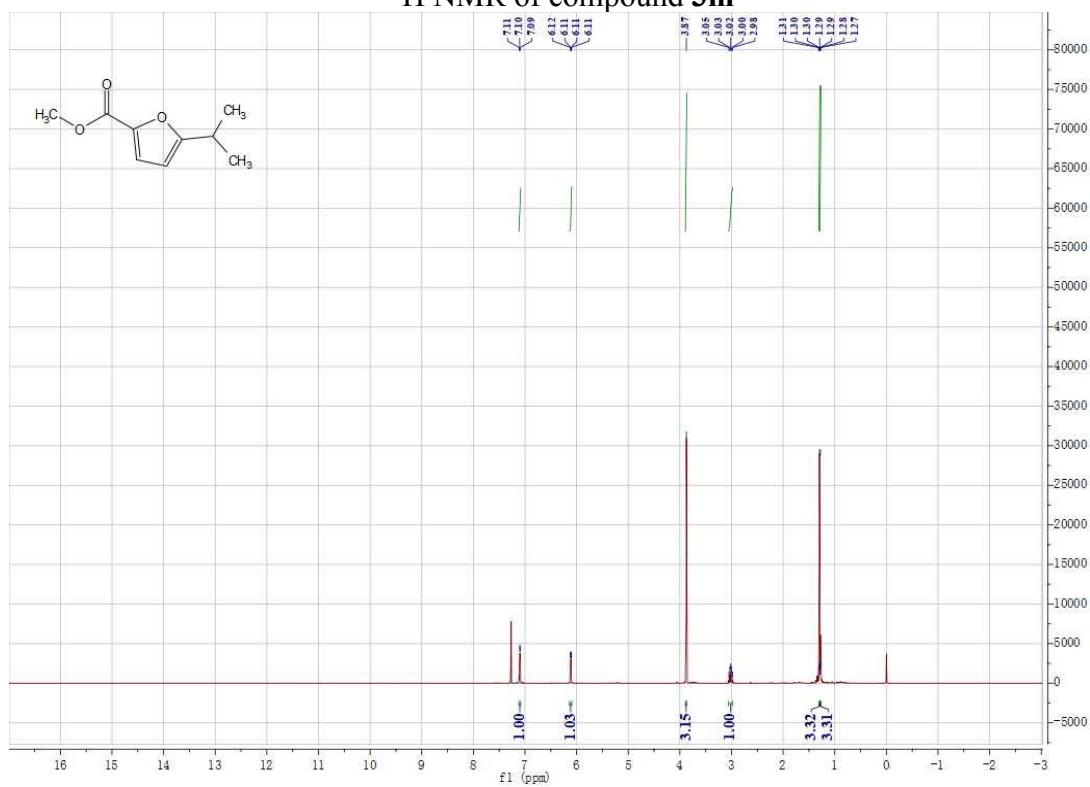
¹H NMR of compound 31



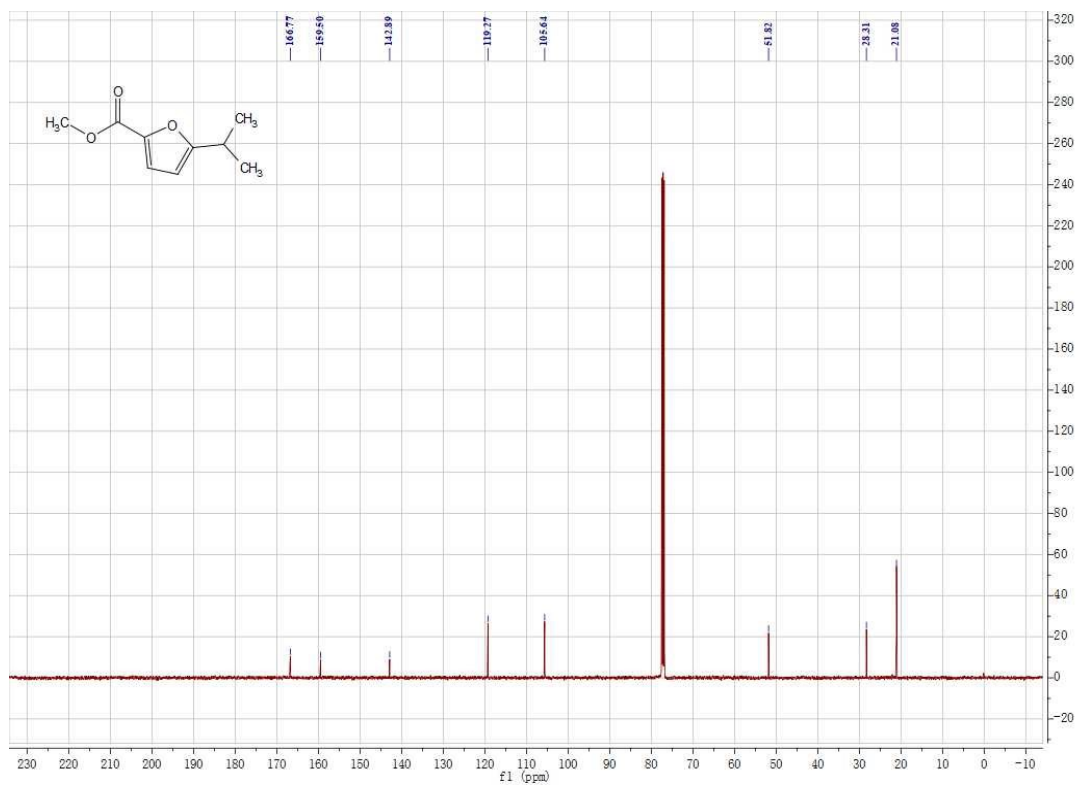
¹³C NMR of compound 31



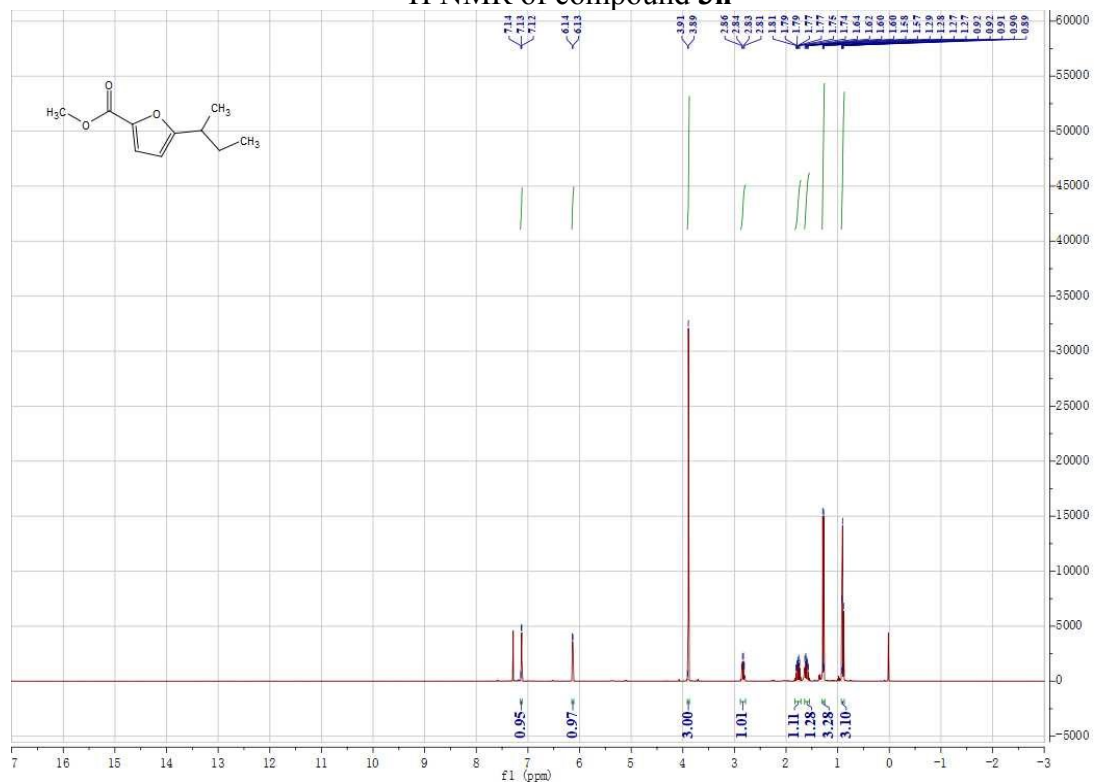
¹H NMR of compound **3m**



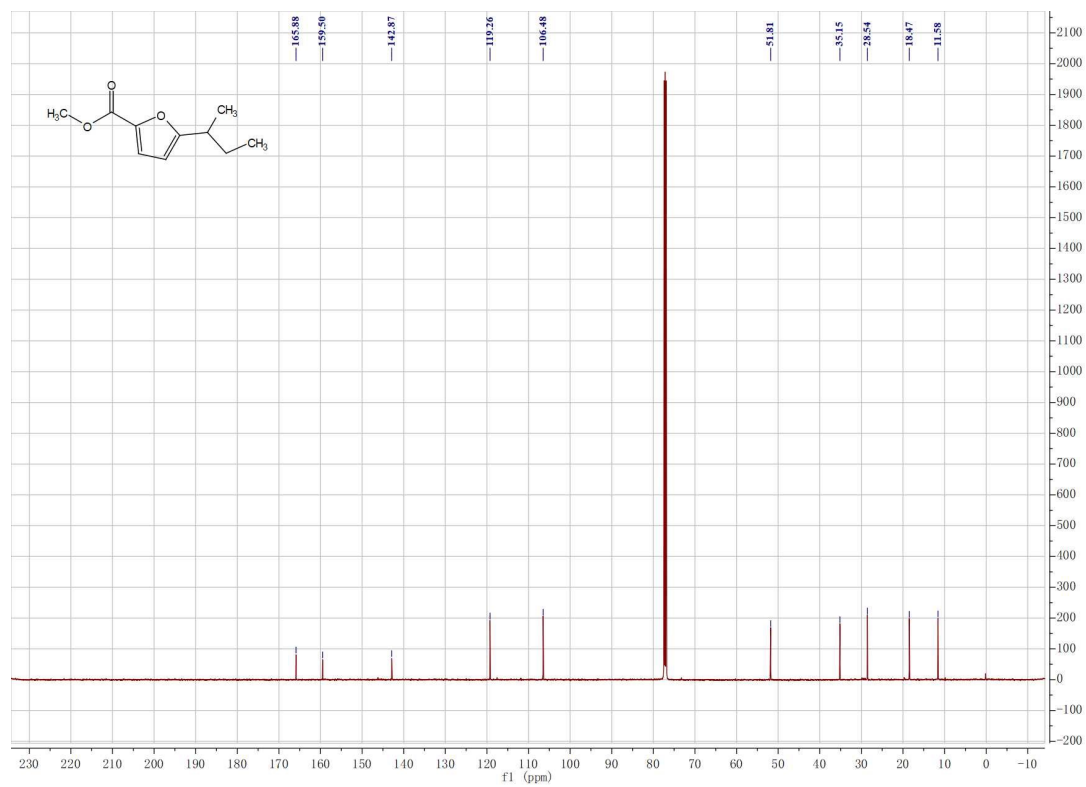
¹³C NMR of compound **3m**



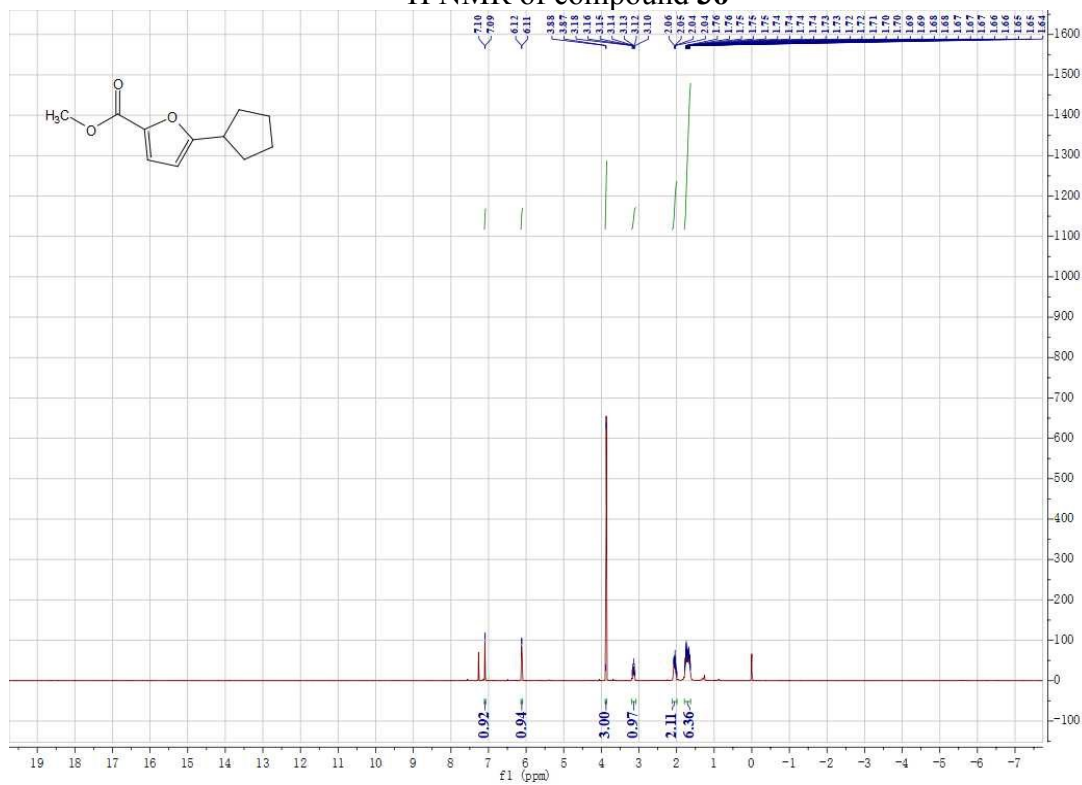
¹H NMR of compound **3n**



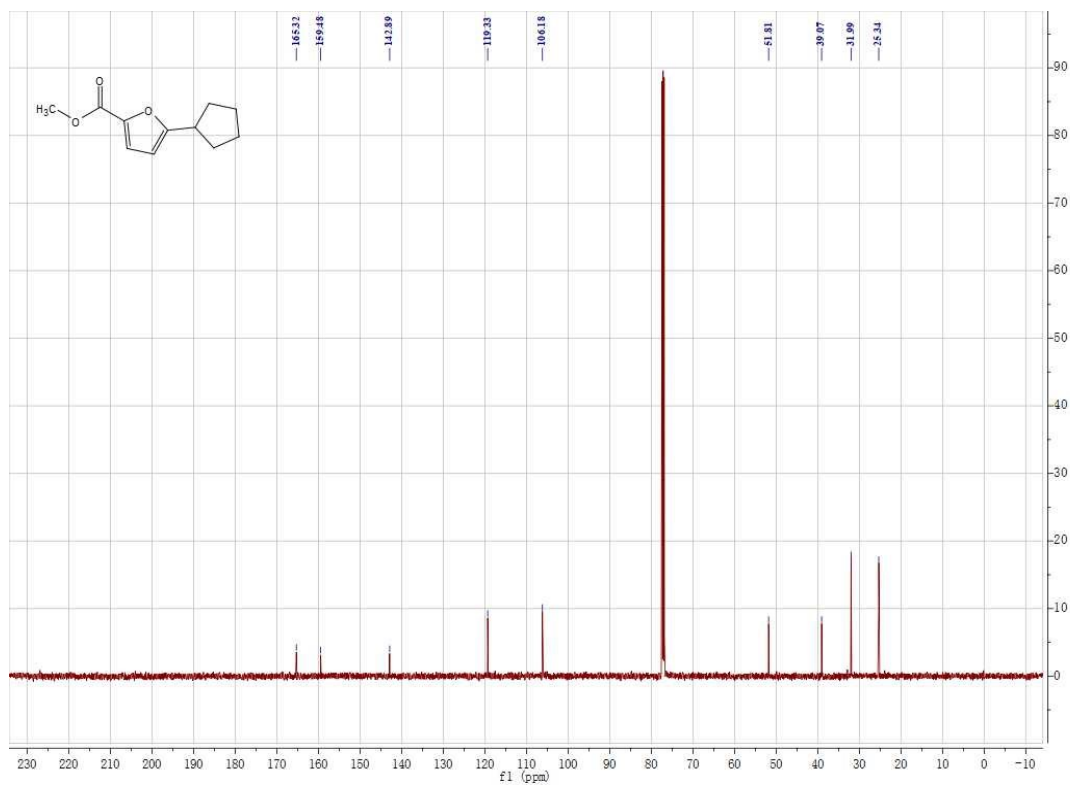
¹³C NMR of compound **3n**



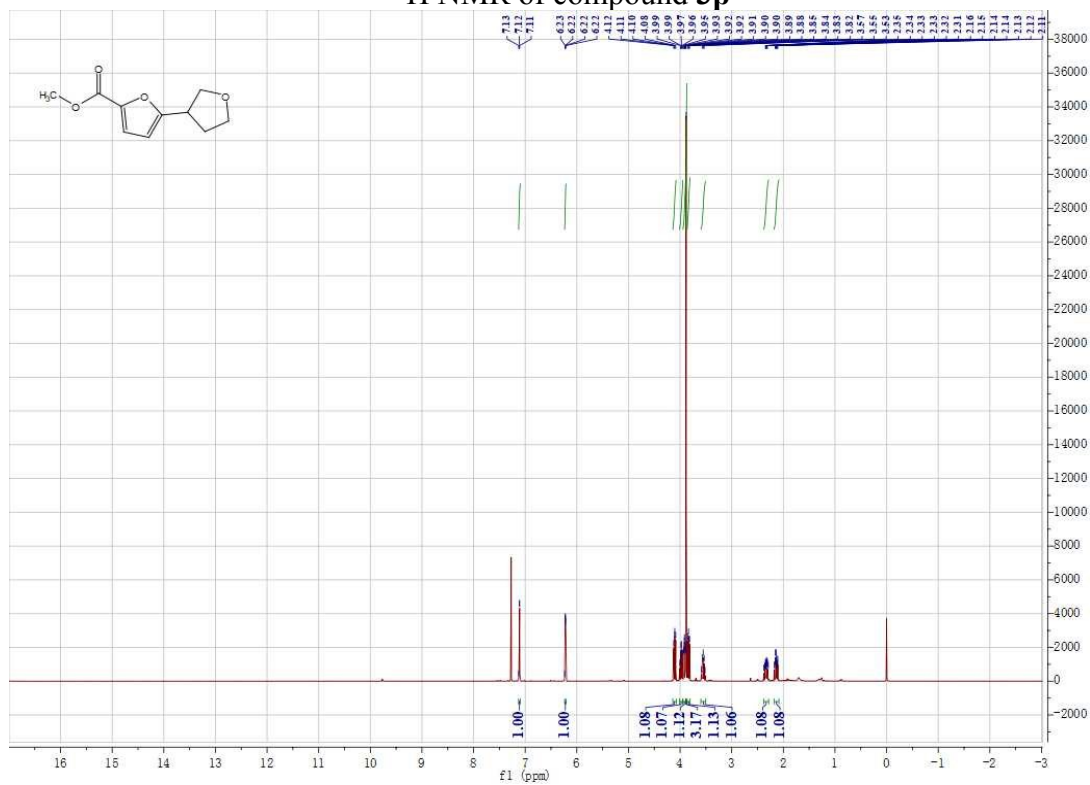
¹H NMR of compound **30**



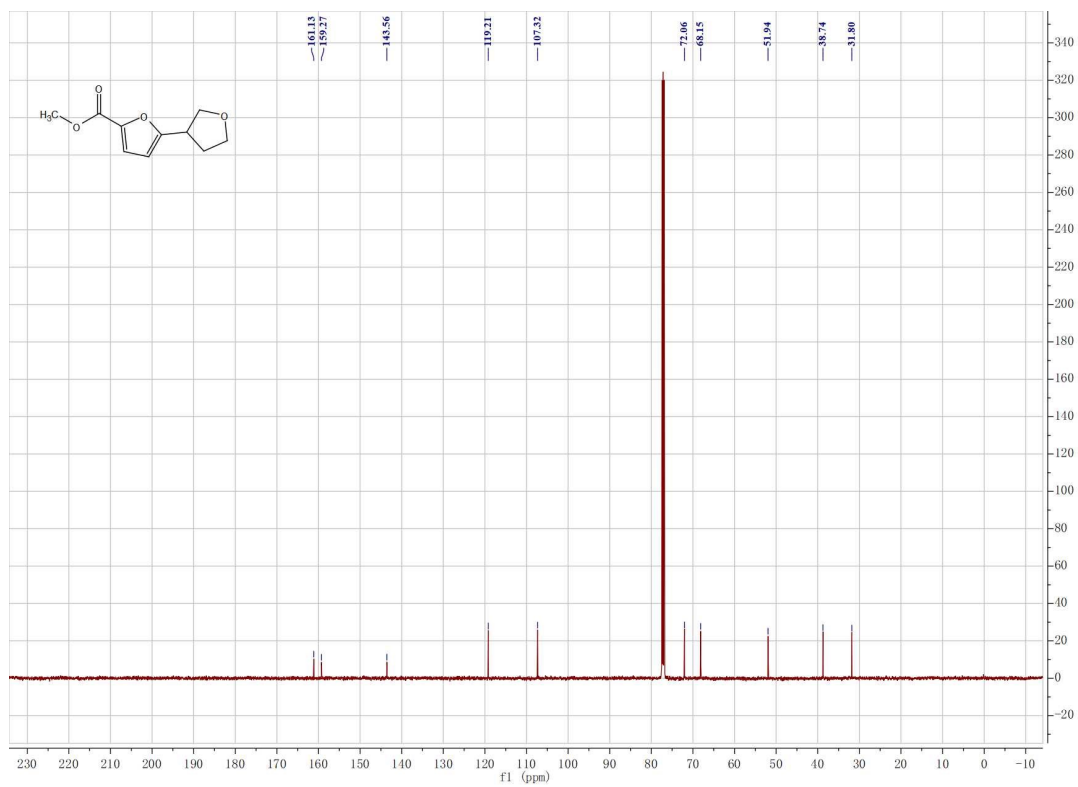
¹³C NMR of compound **30**



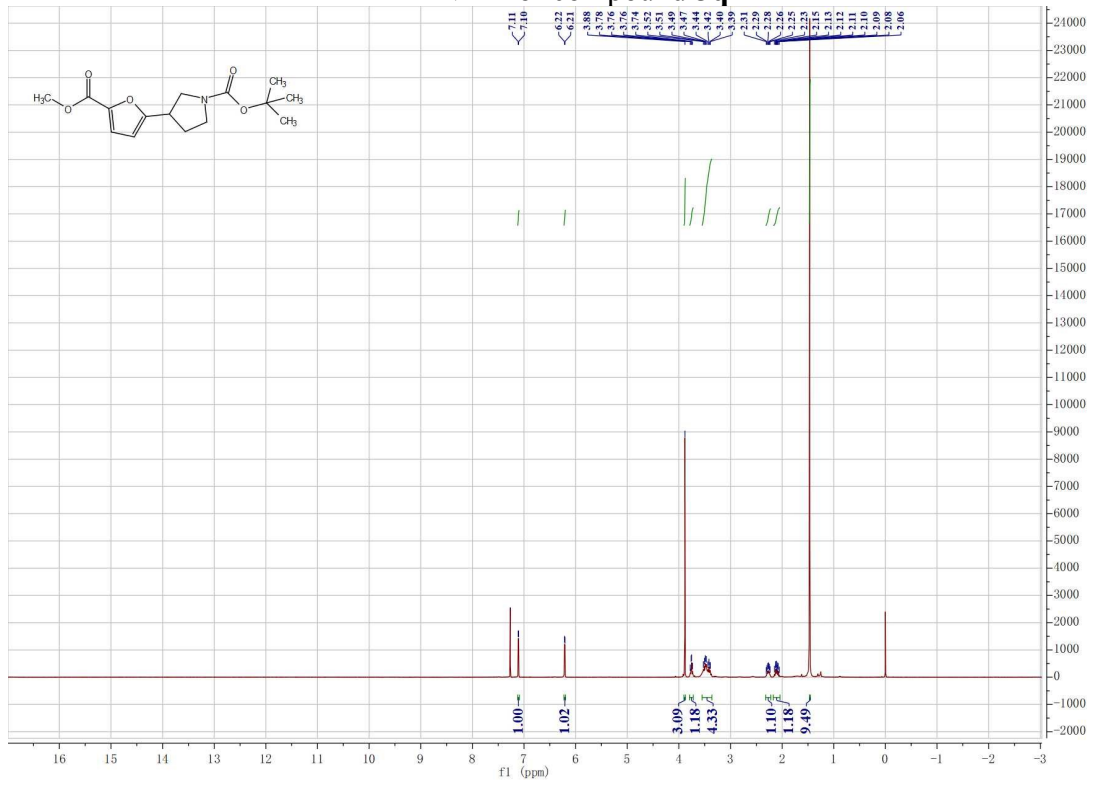
¹H NMR of compound 3p



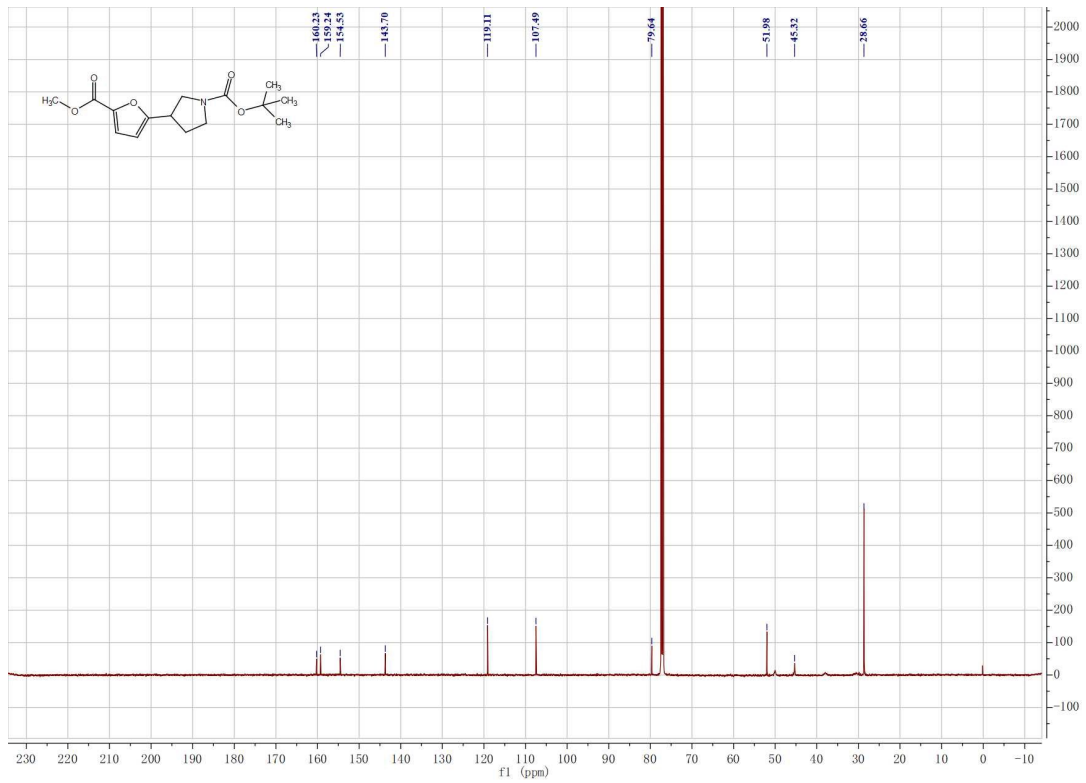
¹³C NMR of compound 3p



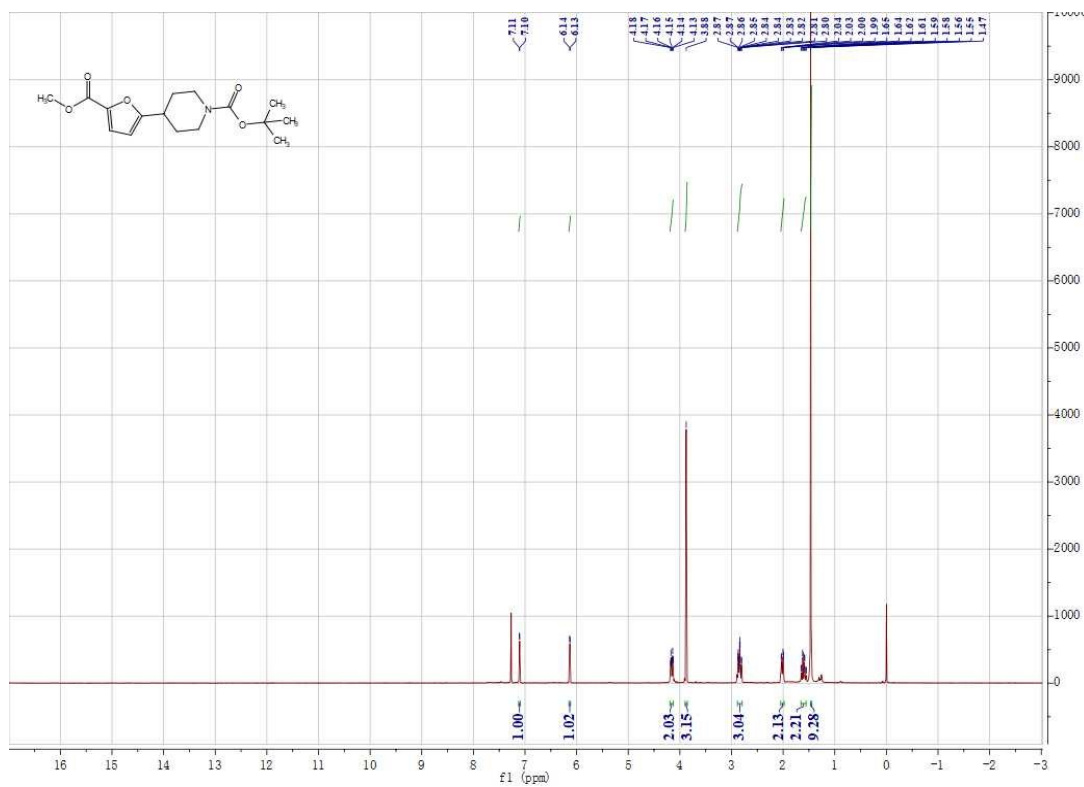
¹H NMR of compound 3q



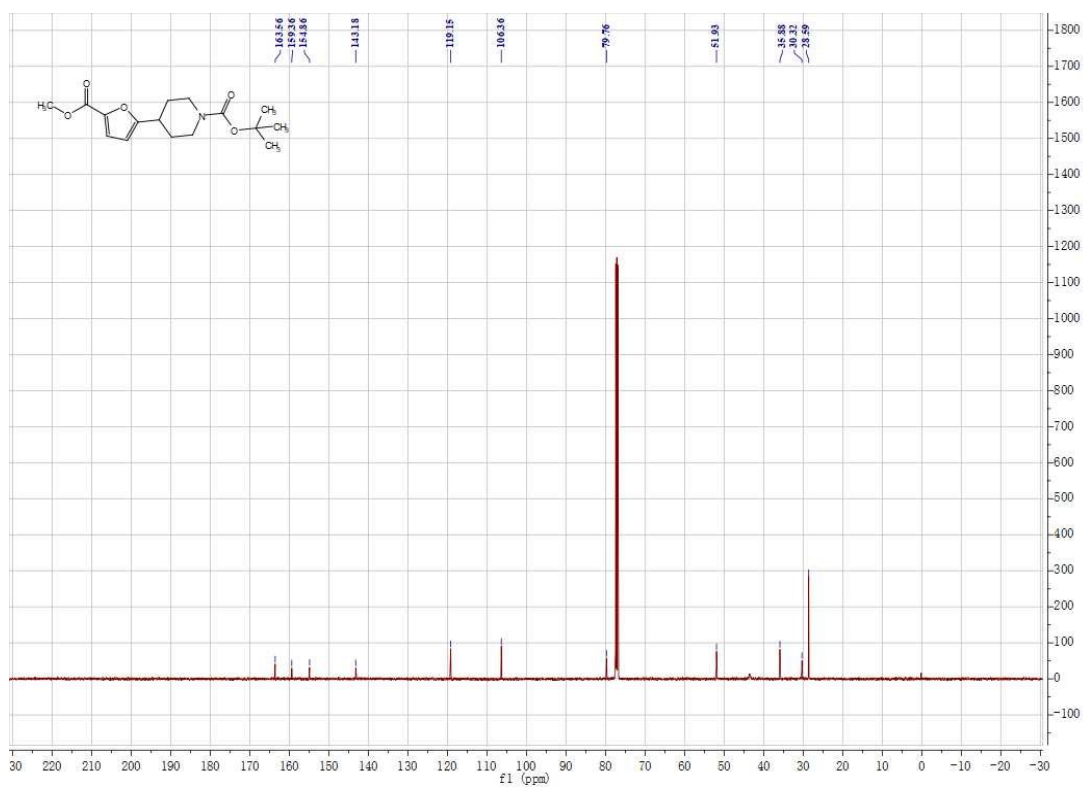
¹³C NMR of compound 3q



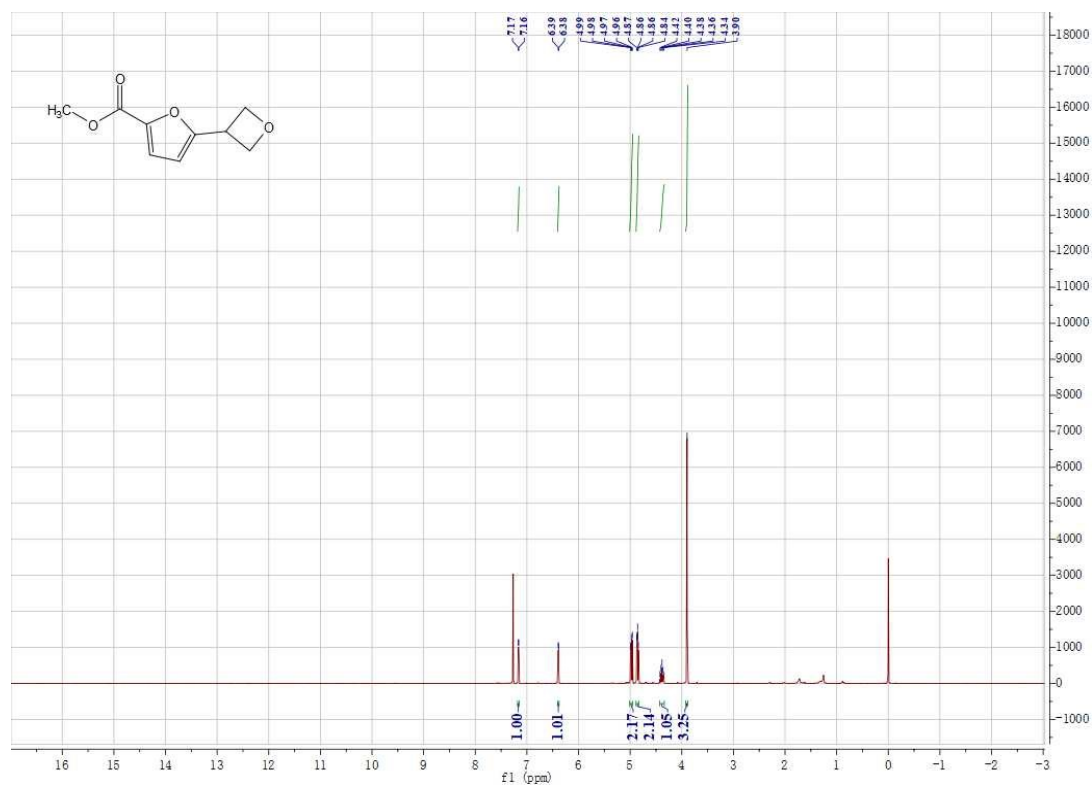
^1H NMR of compound **3r**



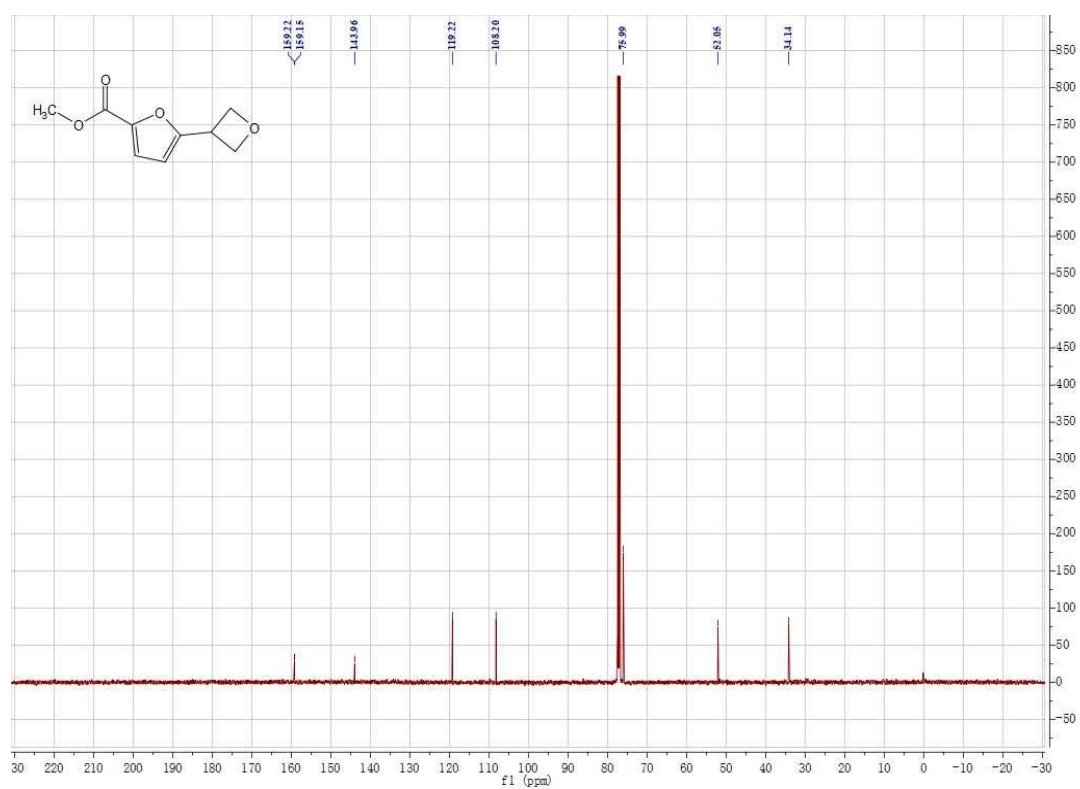
^{13}C NMR of compound **3r**



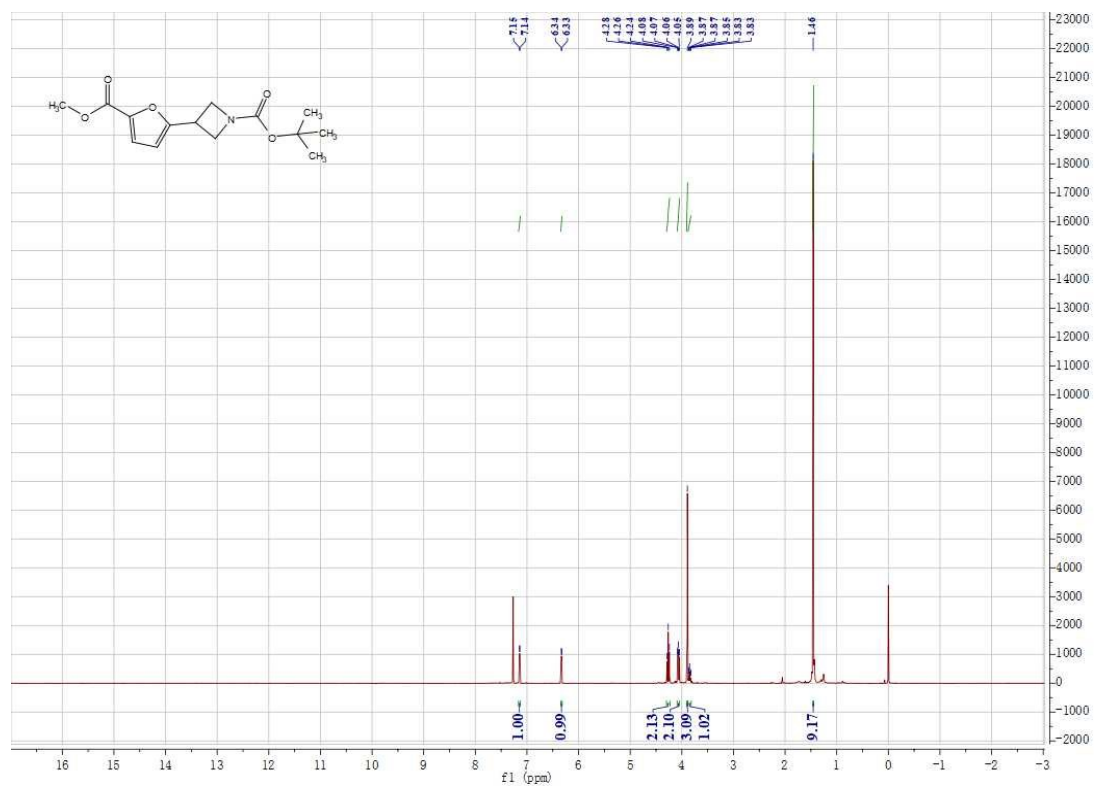
^1H NMR of compound 3s



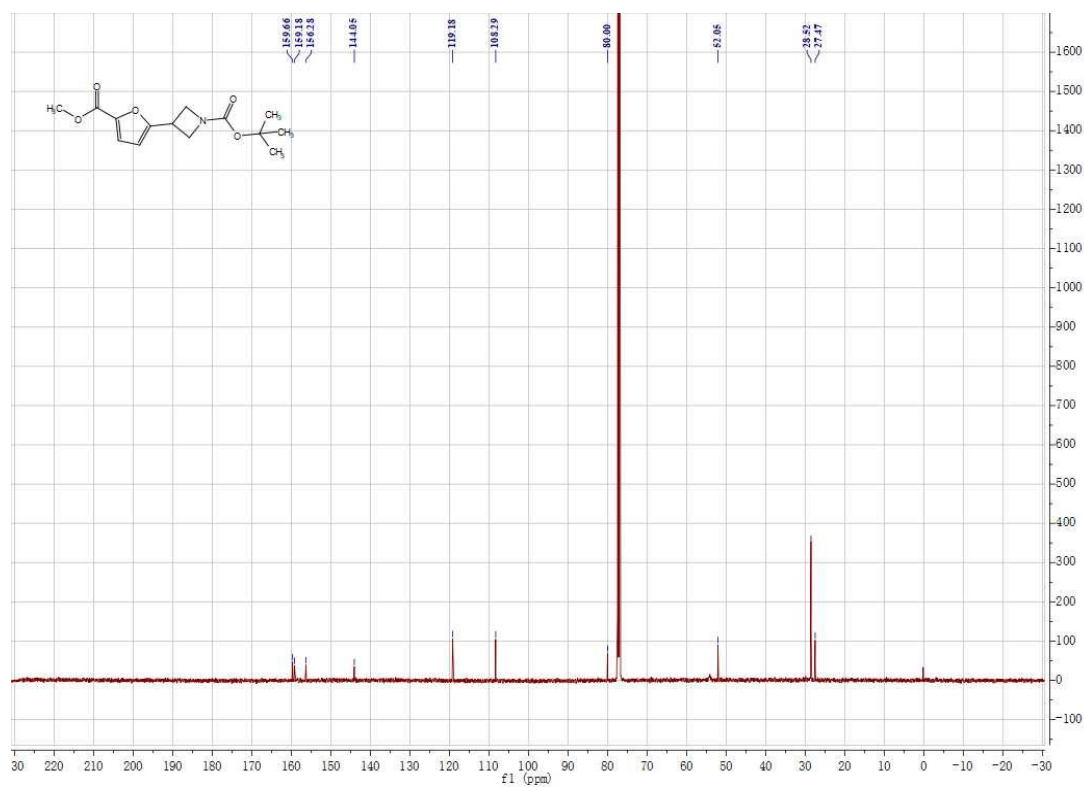
^{13}C NMR spectrum of compound 3s



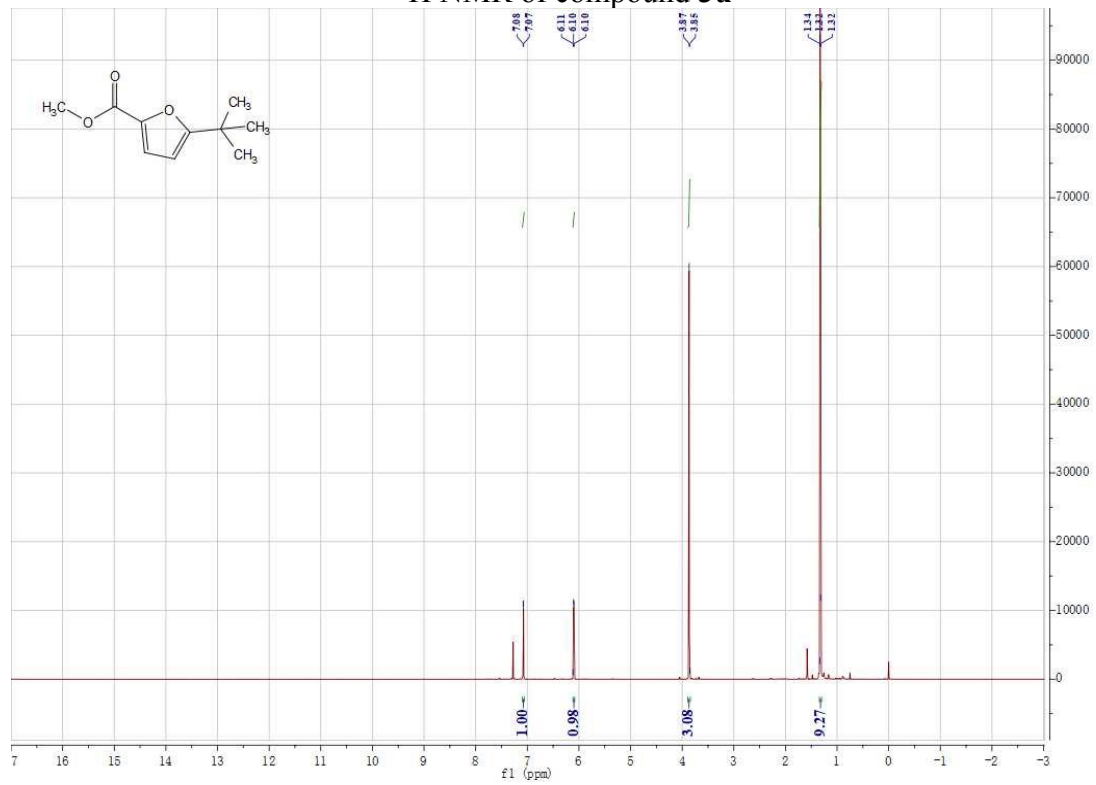
^1H NMR of compound **3t**



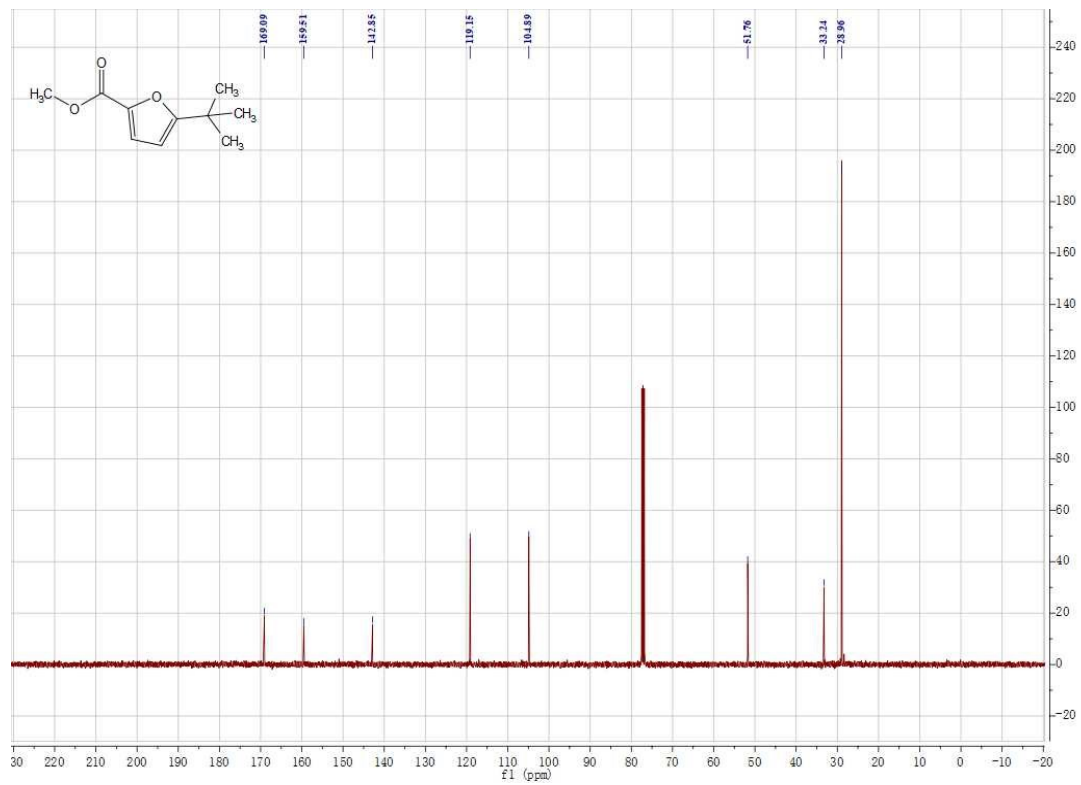
^{13}C NMR of compound **3t**



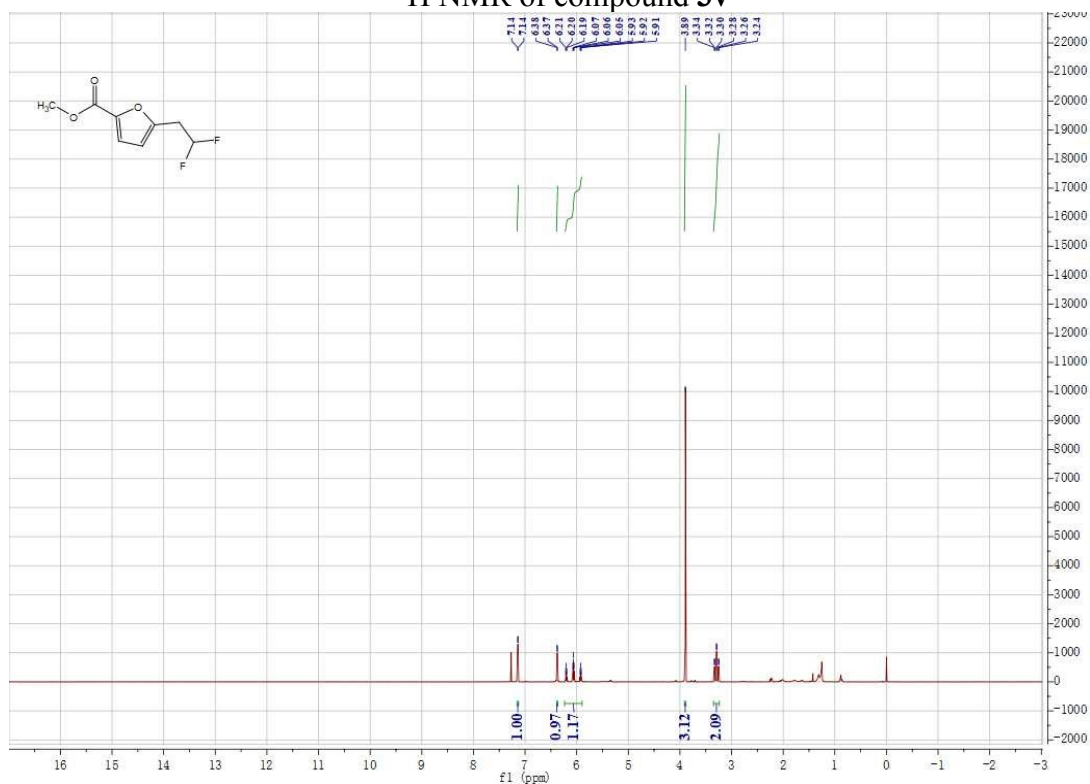
¹H NMR of compound **3u**



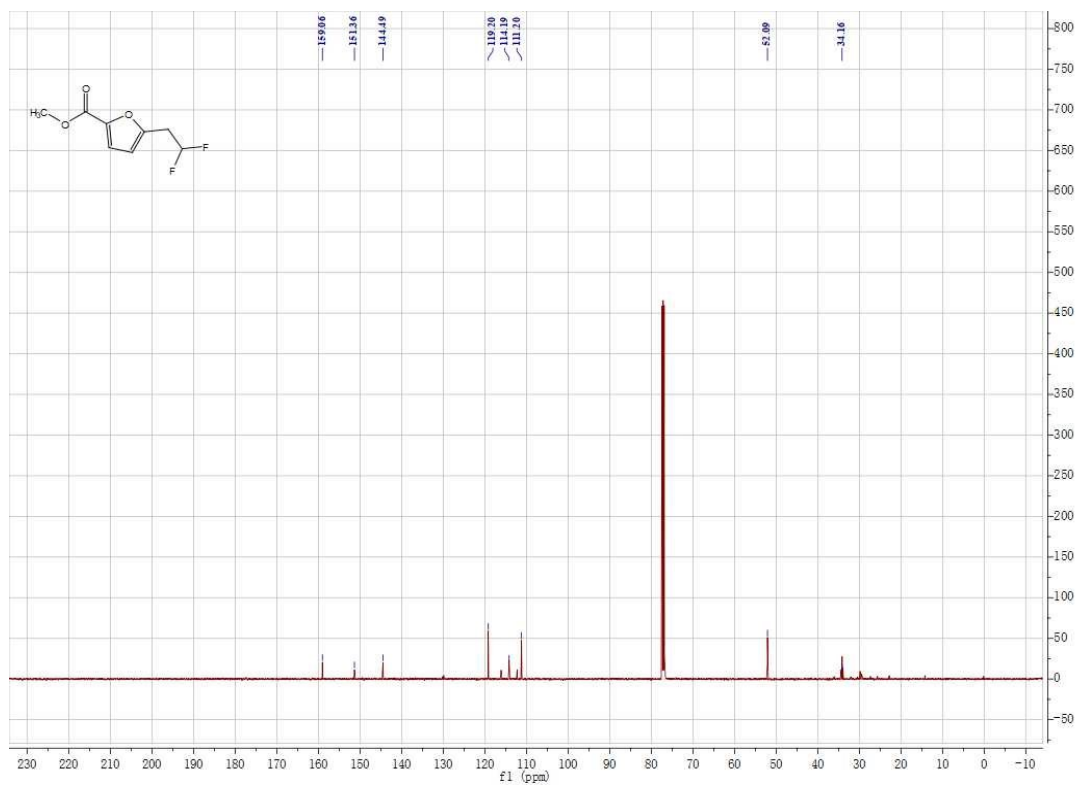
¹³C NMR of compound **3u**



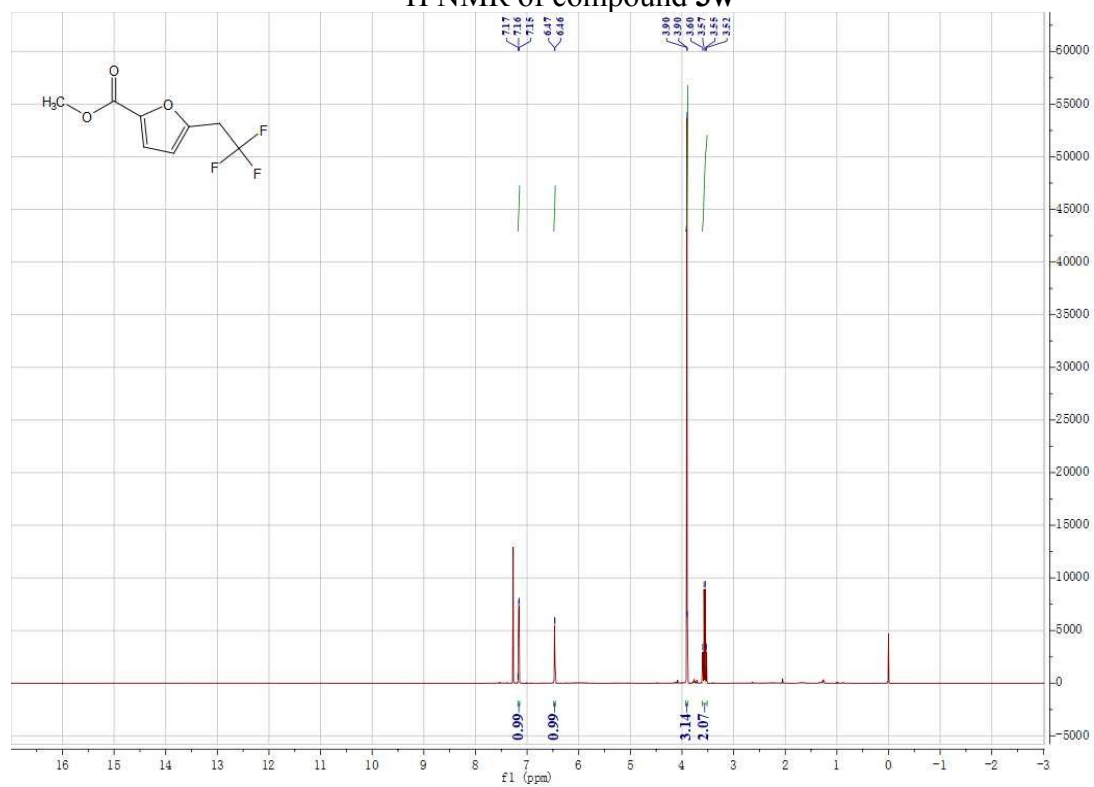
¹H NMR of compound **3v**



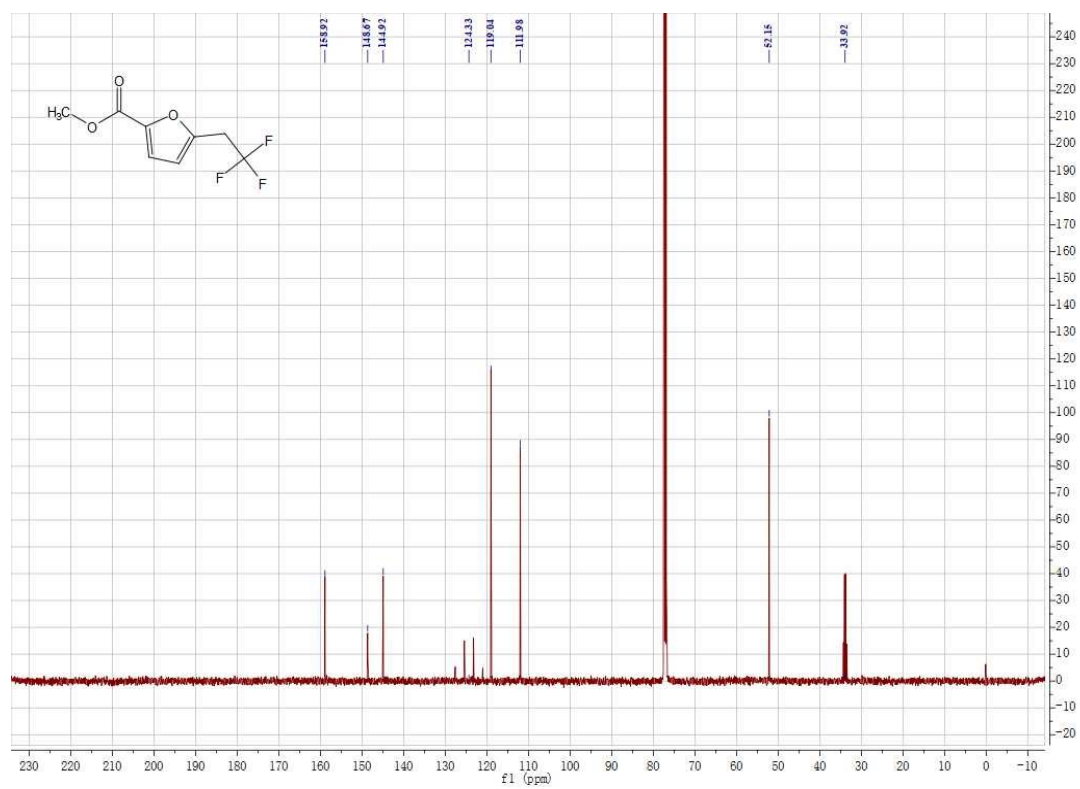
¹³C NMR of compound **3v**



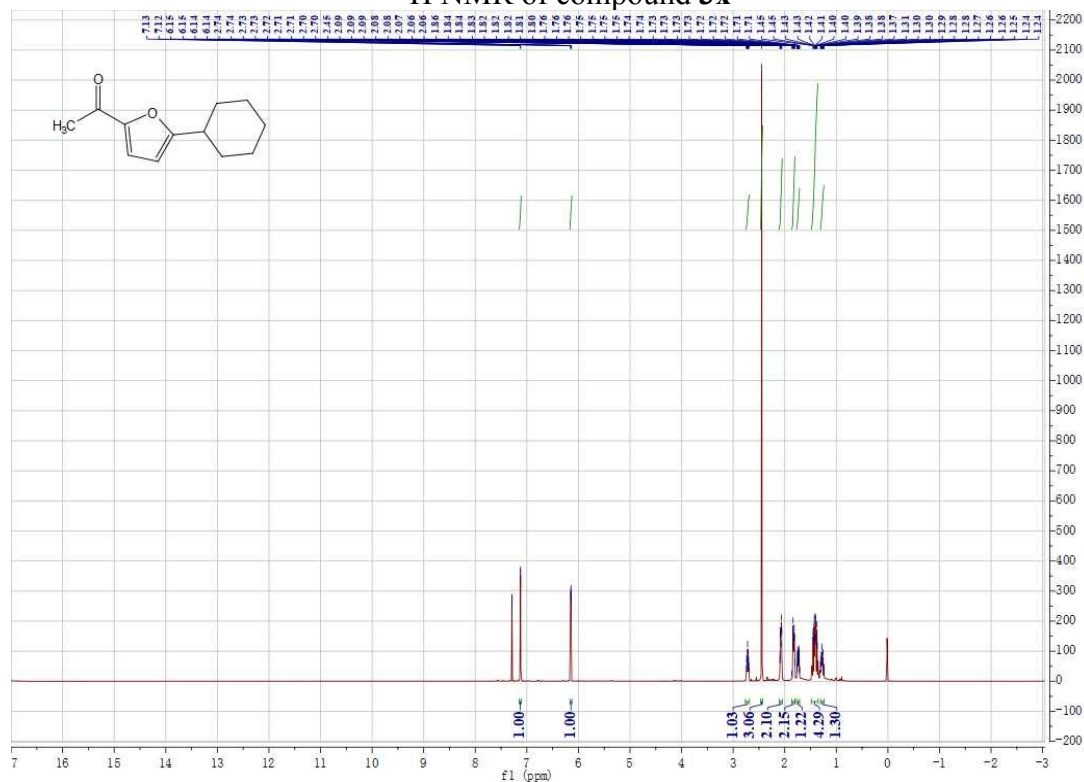
^1H NMR of compound **3w**



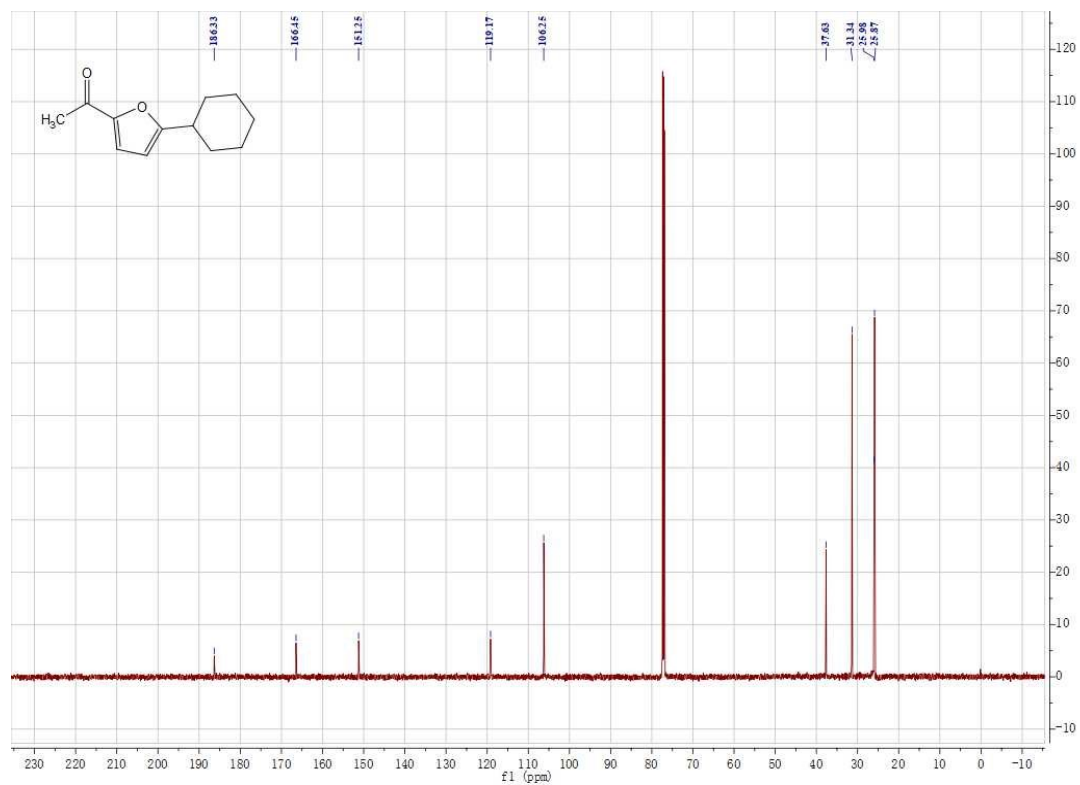
^{13}C NMR of compound **3w**



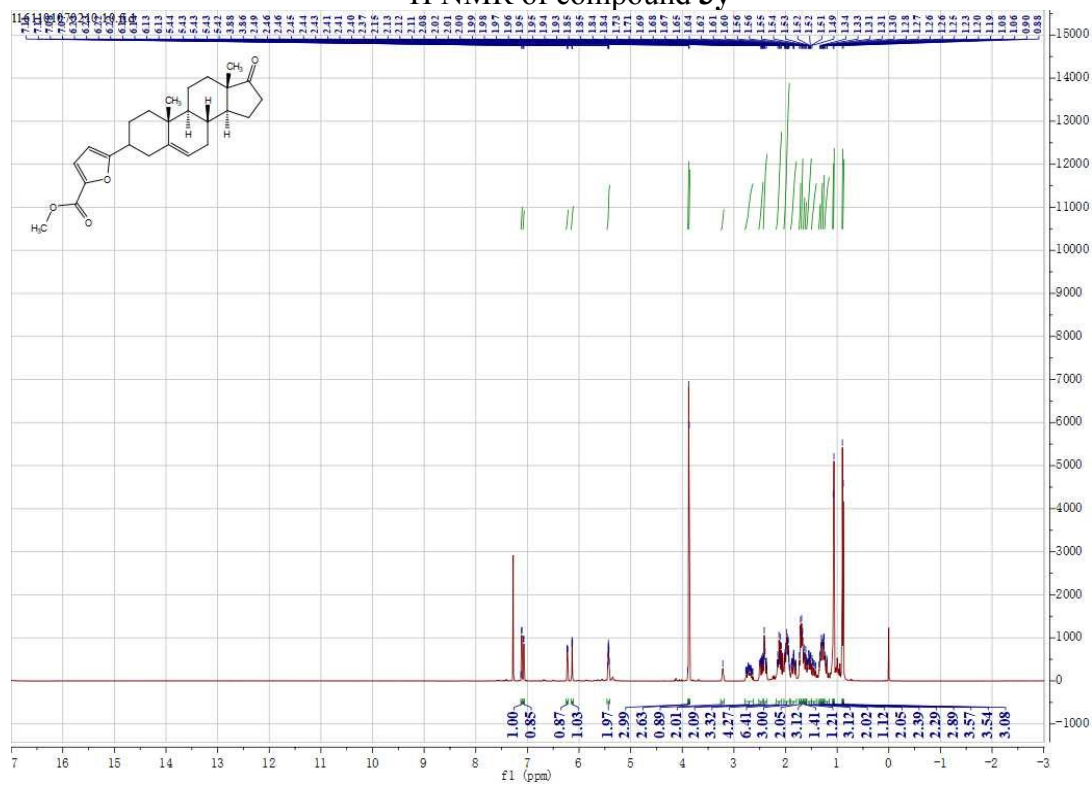
¹H NMR of compound 3x



¹³C NMR of compound 3x



¹H NMR of compound **3y**



¹³C NMR of compound **3y**

