

Supporting Information

Oxidative bicyclization of *N*-tethered 1,7-enynes toward polycyclic 3,4-dihydroquinolin-2(1*H*)-ones *via* site-selective decarboxylative C(sp³)-H functionalization

Jie Li,^a Wen-Juan Hao,^{*,a} Peng Zhou,^a Yi-Long Zhu,^{a,b} Shu-Liang Wang,^a Shu-Jiang Tu,^a and Bo Jiang^{*,a}

^aSchool of Chemistry and Chemical Engineering, Jiangsu Key Laboratory of Green Synthetic Chemistry for Functional Materials, Jiangsu Normal University, Xuzhou 221116, P. R. China. Email: wjhao@jsnu.edu.cn (WJH); jiangchem@jsnu.edu.cn (BJ); Fax: +8651683500065; Tel: +8651683500065

^bBiotechnology and Pharmaceutical Engineering, Nanjing Tech University, Nanjing, 210009, Jiangsu, P. R. China

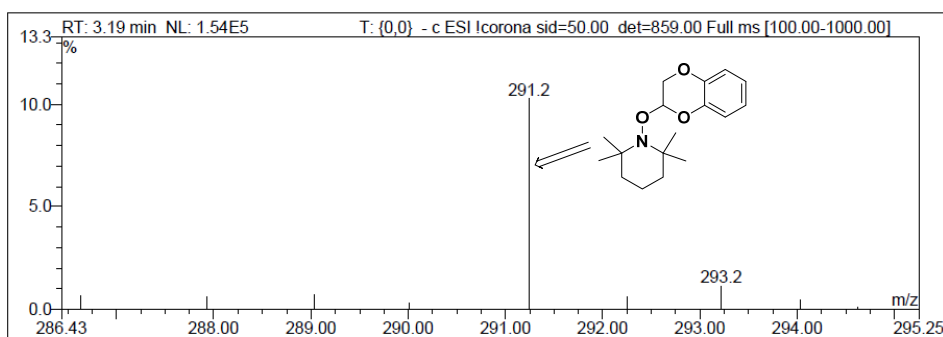
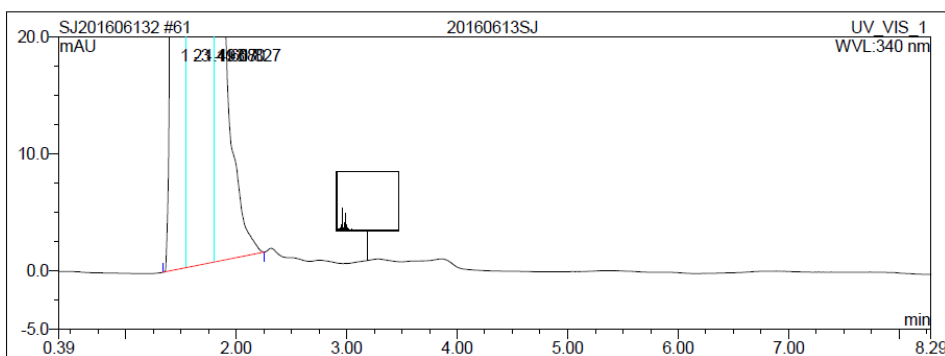
Context

Copy of TEMPO-2,3-dihydrobenzo[*b*][1,4]dioxine Adduct detected by LCMS.....S1

Copies of ¹H and ¹³C NMR Spectra for Compounds **3a-3bb**.....S2-S29

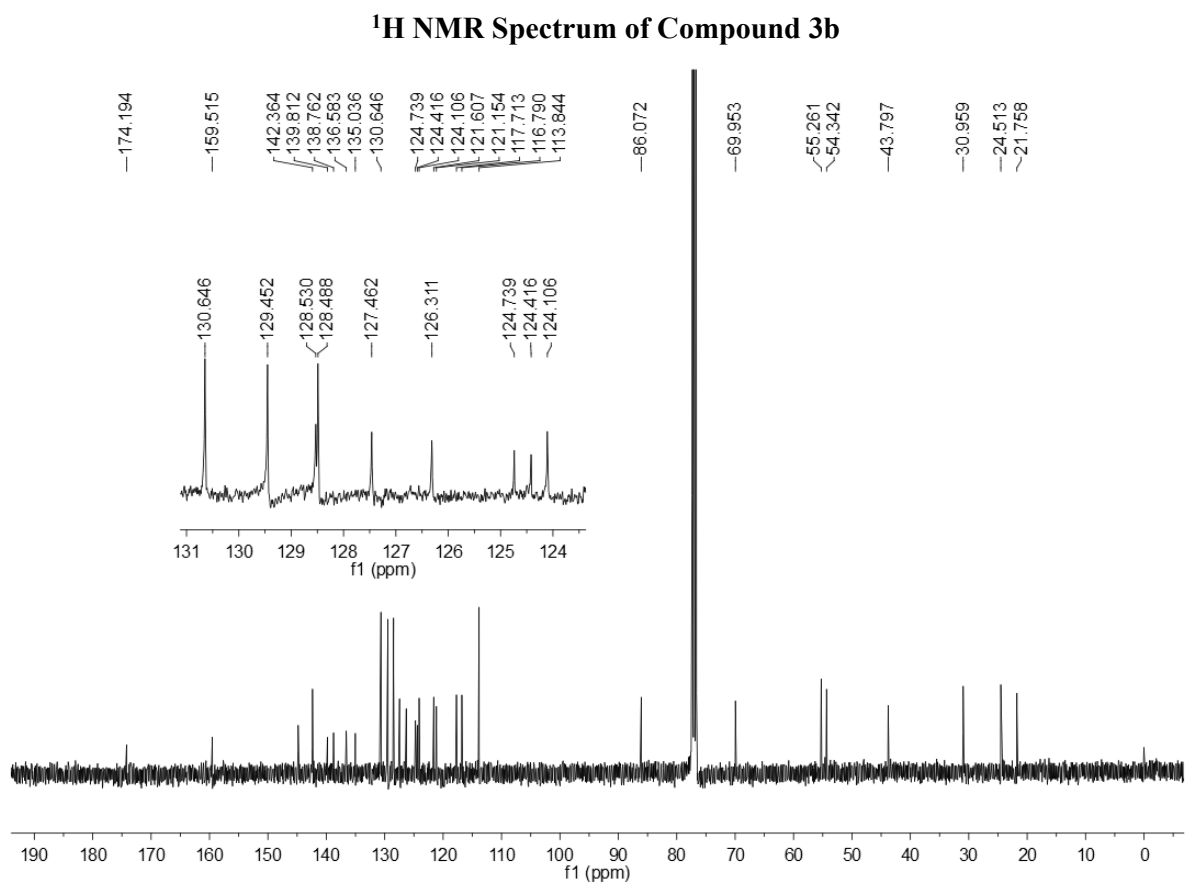
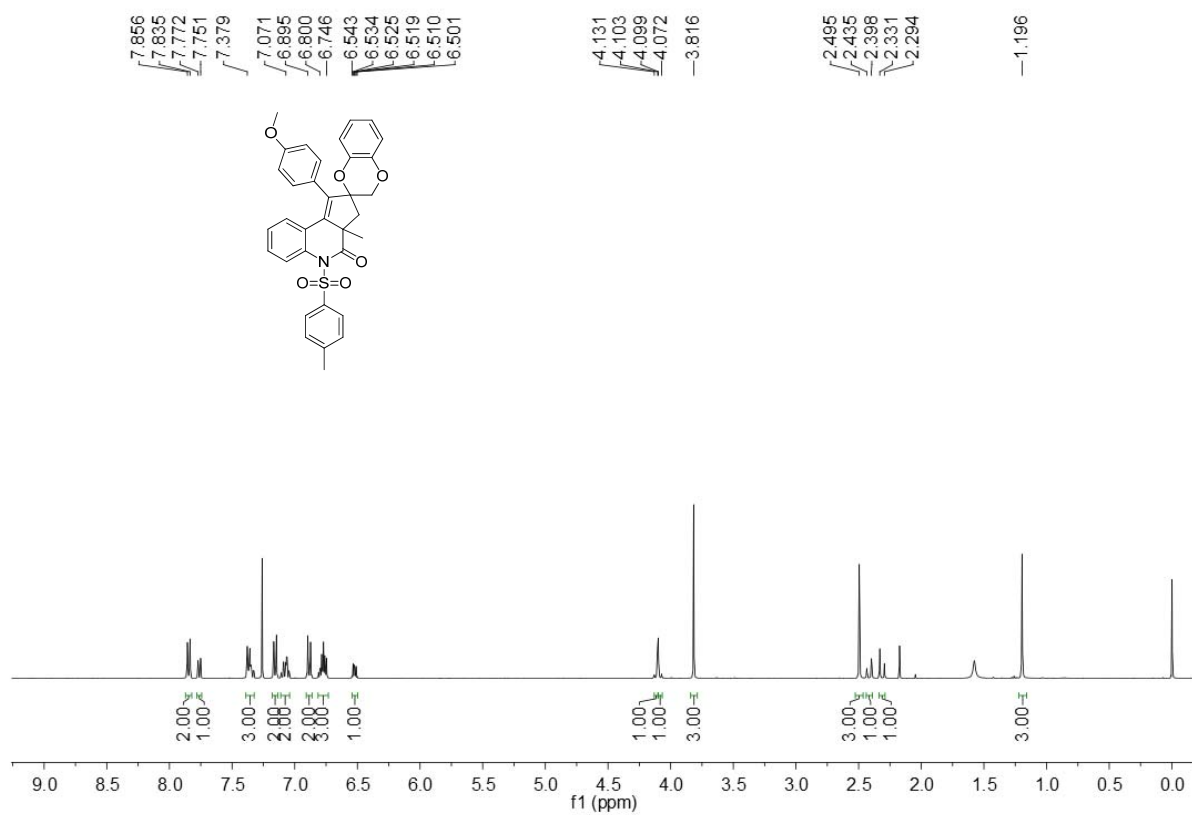
Copies of ¹H and ¹³C NMR Spectra for Compounds **5a-5m**..... S30-S42

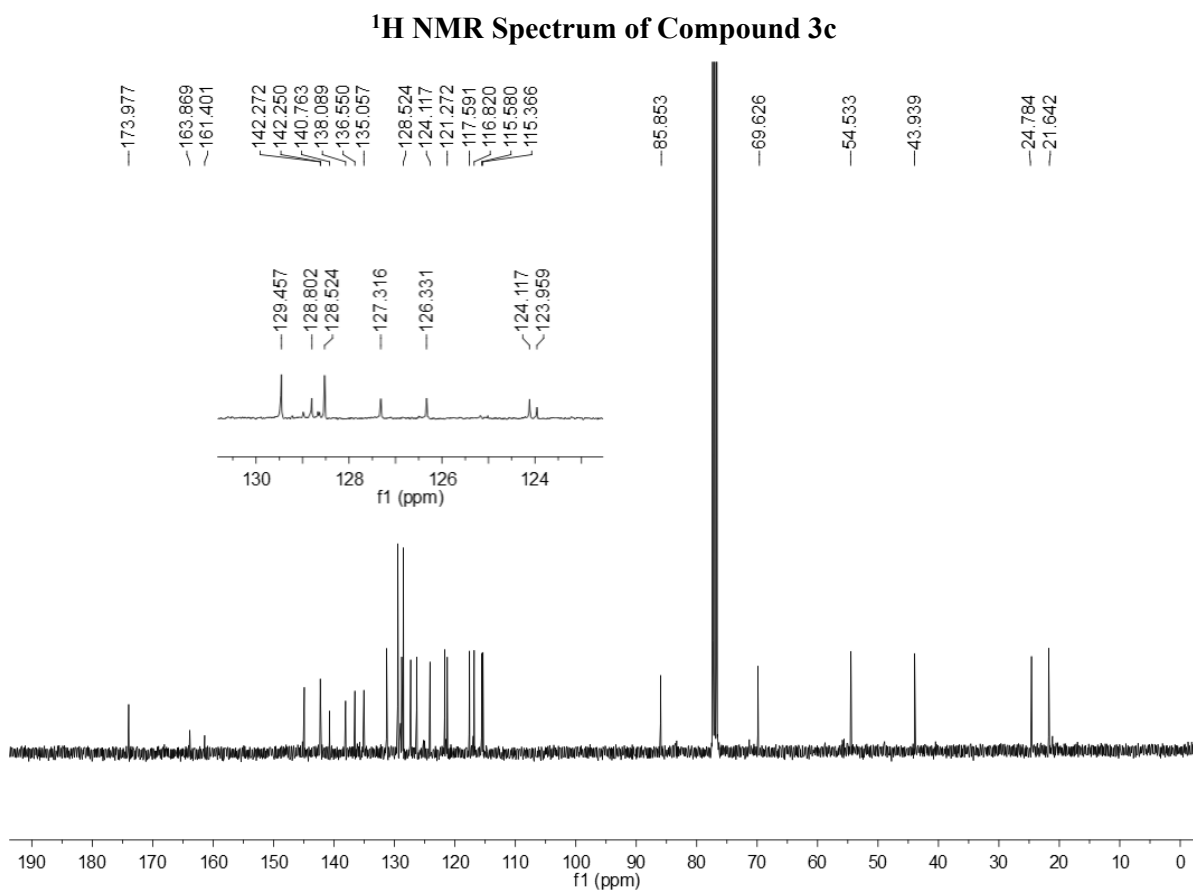
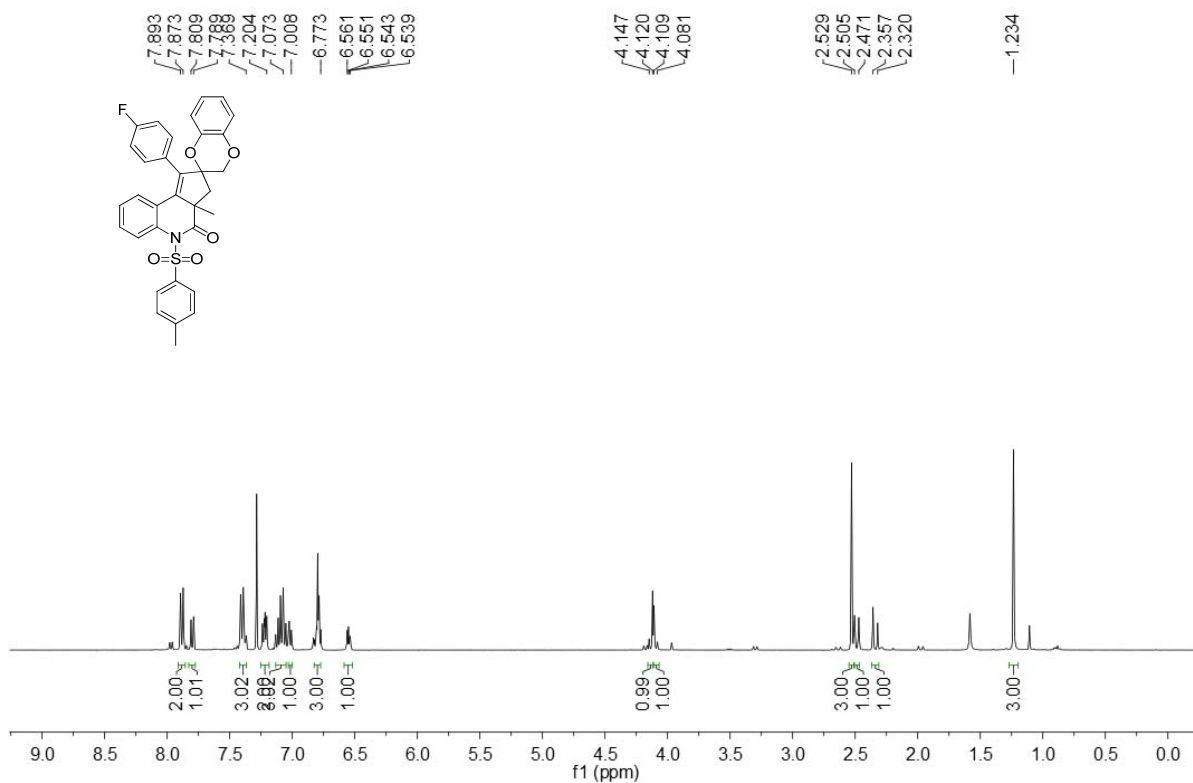
Overlay of Samples and Spectra from Integration View

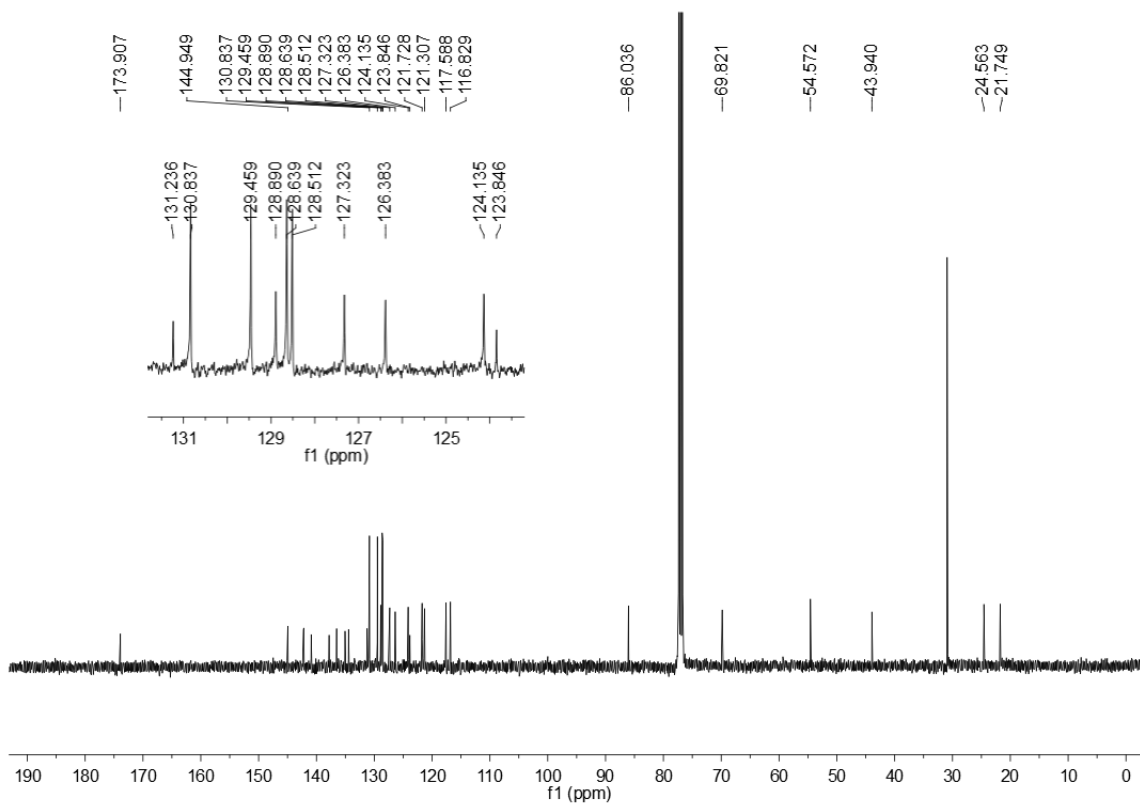
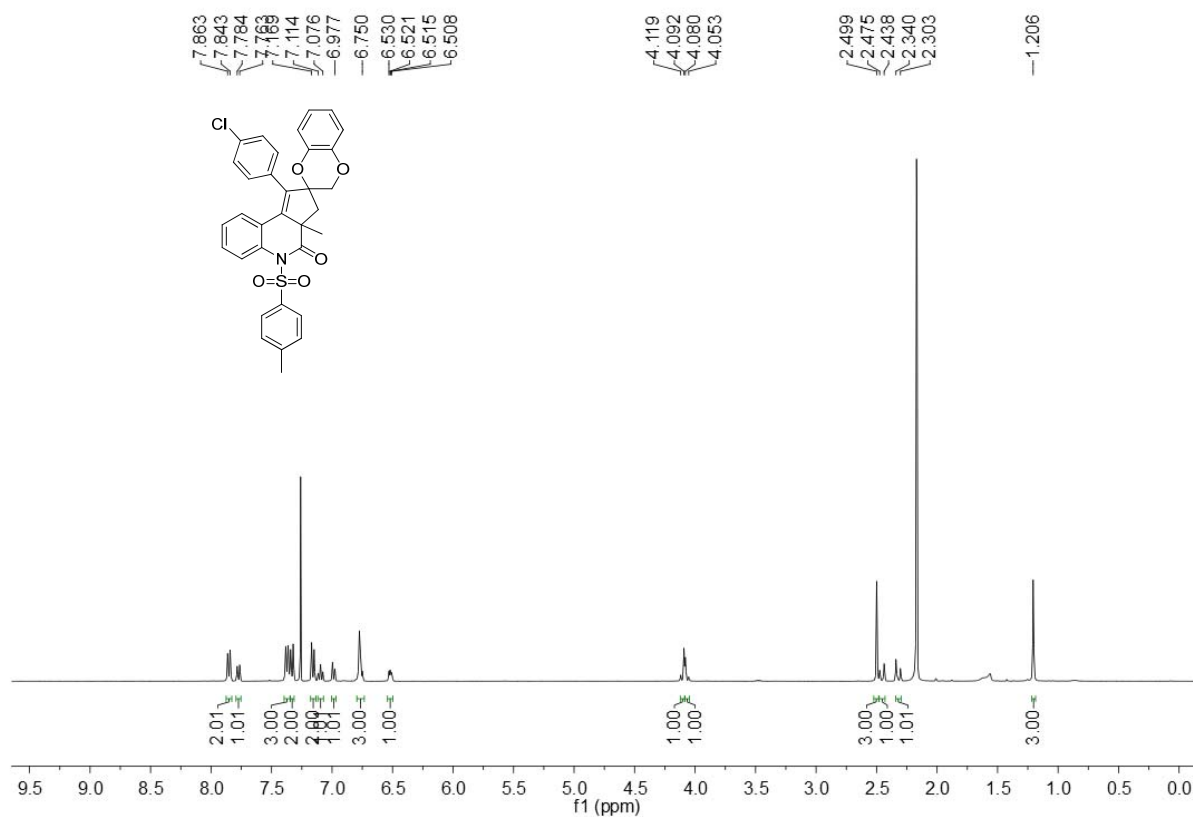


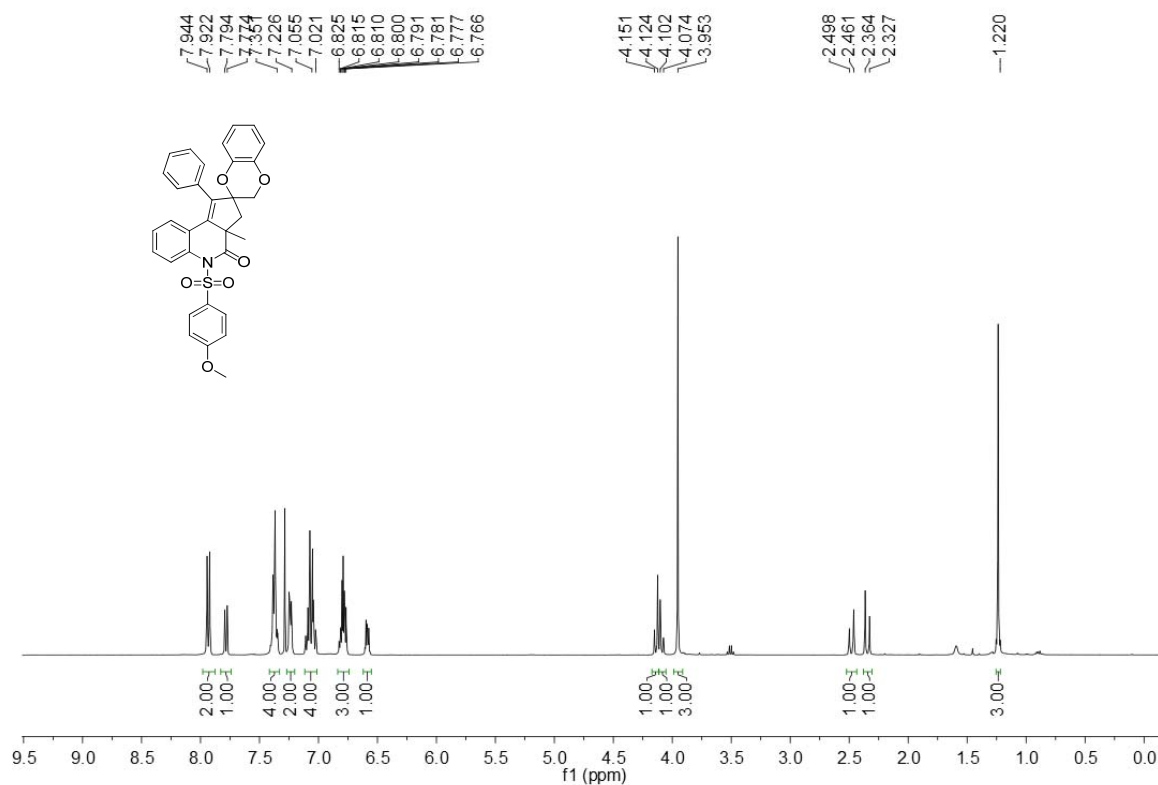
Sample "HVNQNM1_local\Sample\SJ201606132 #61 20160613SJ" contains neither 3DFIELD nor spectra library.

Cc1c2c(c3ccccc3c2c(=O)n1S(=O)(=O)c4ccccc4)C5=CC=CC=C5O5

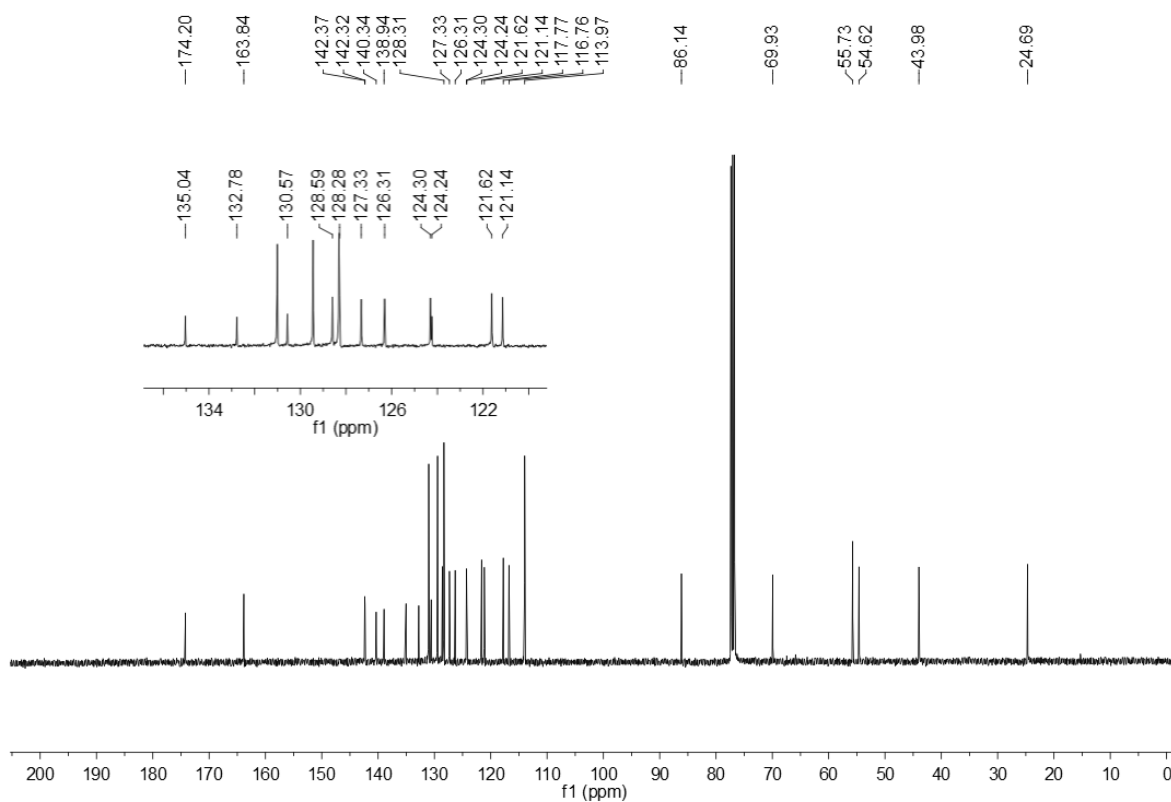




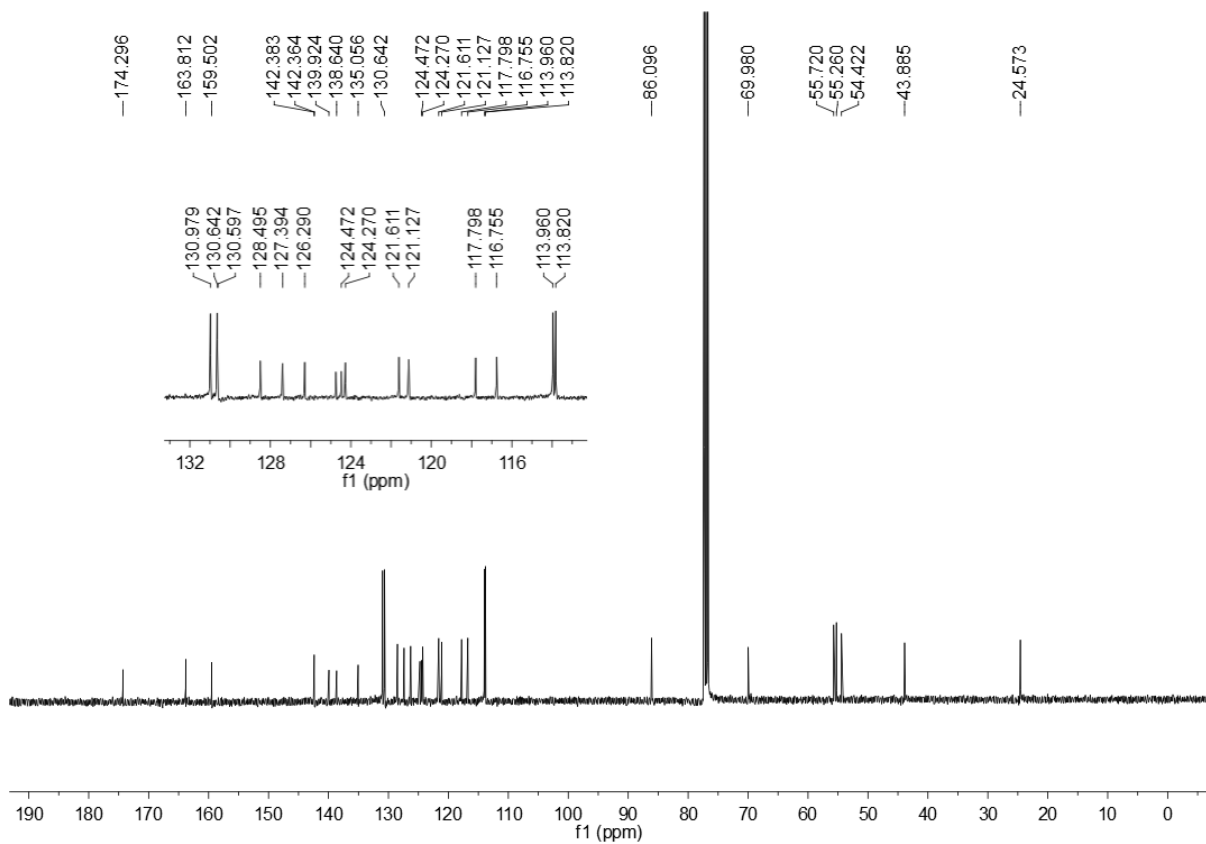
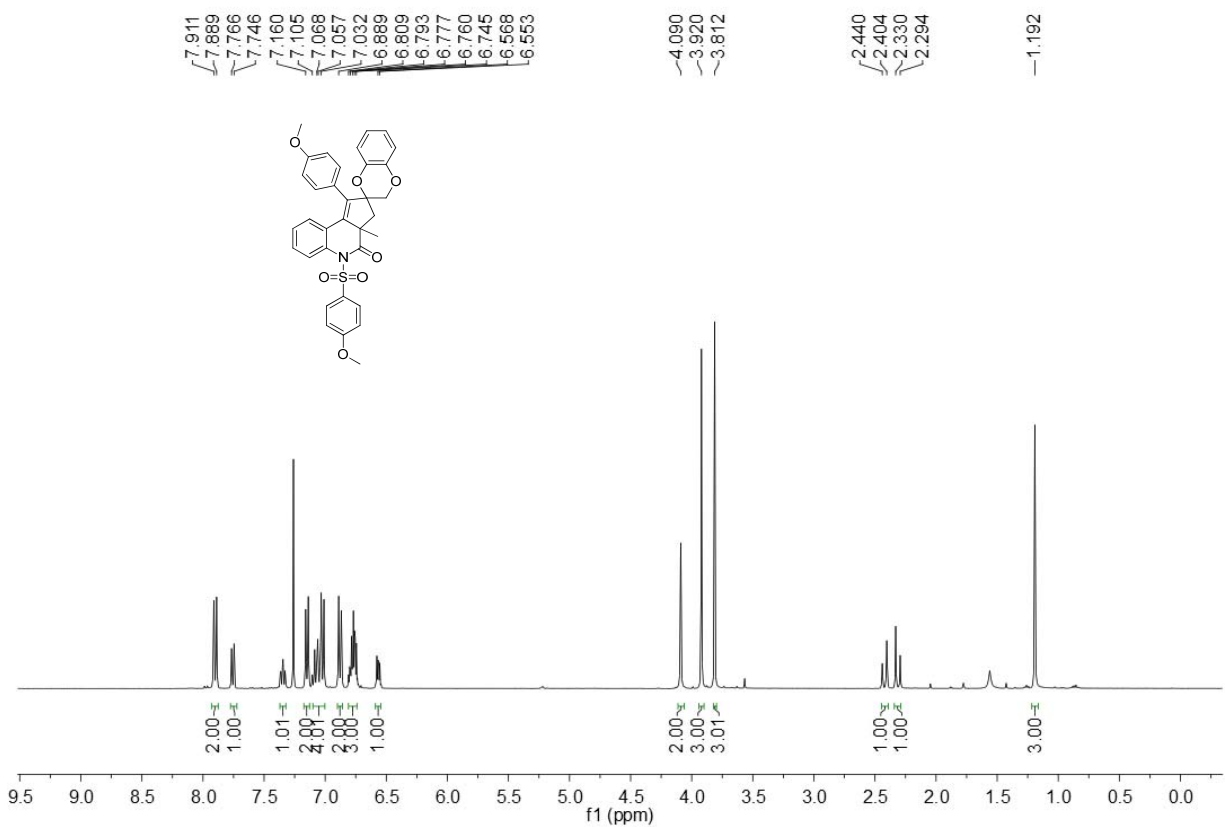


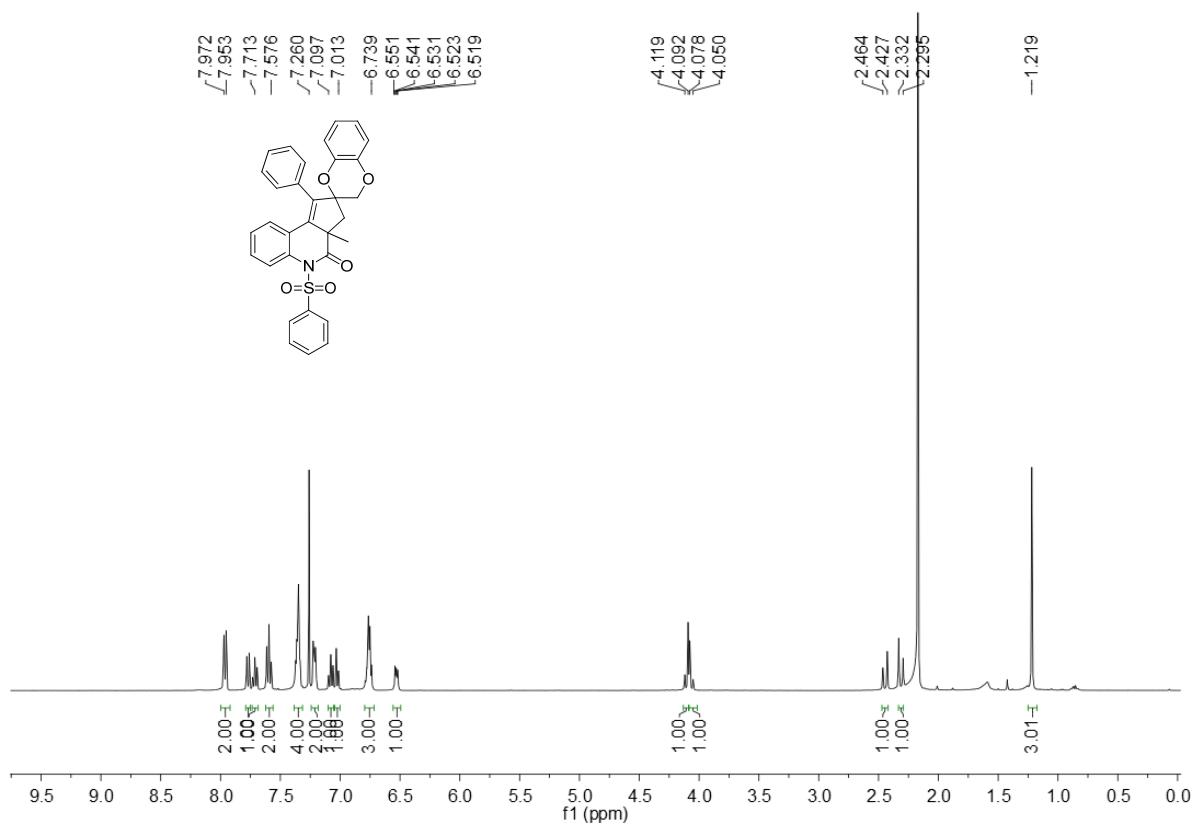


¹H NMR Spectrum of Compound 3f

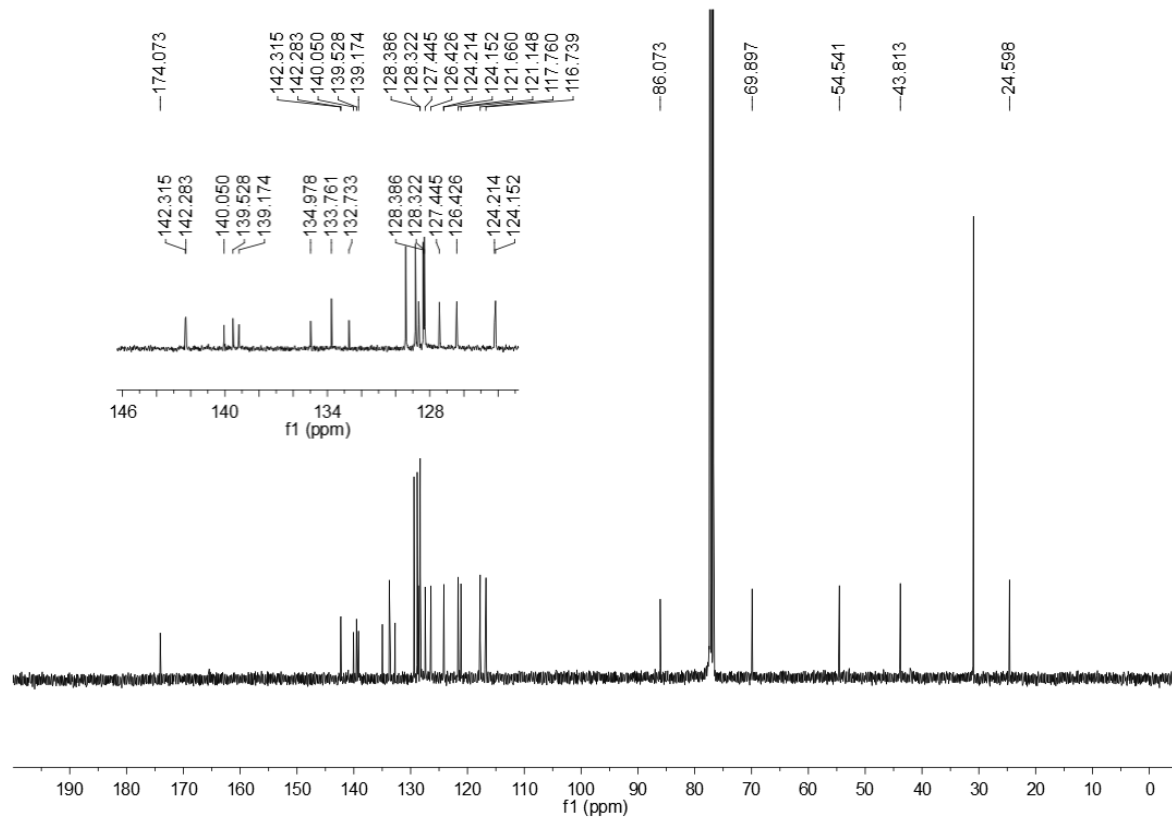


¹³C NMR Spectrum of Compound 3f

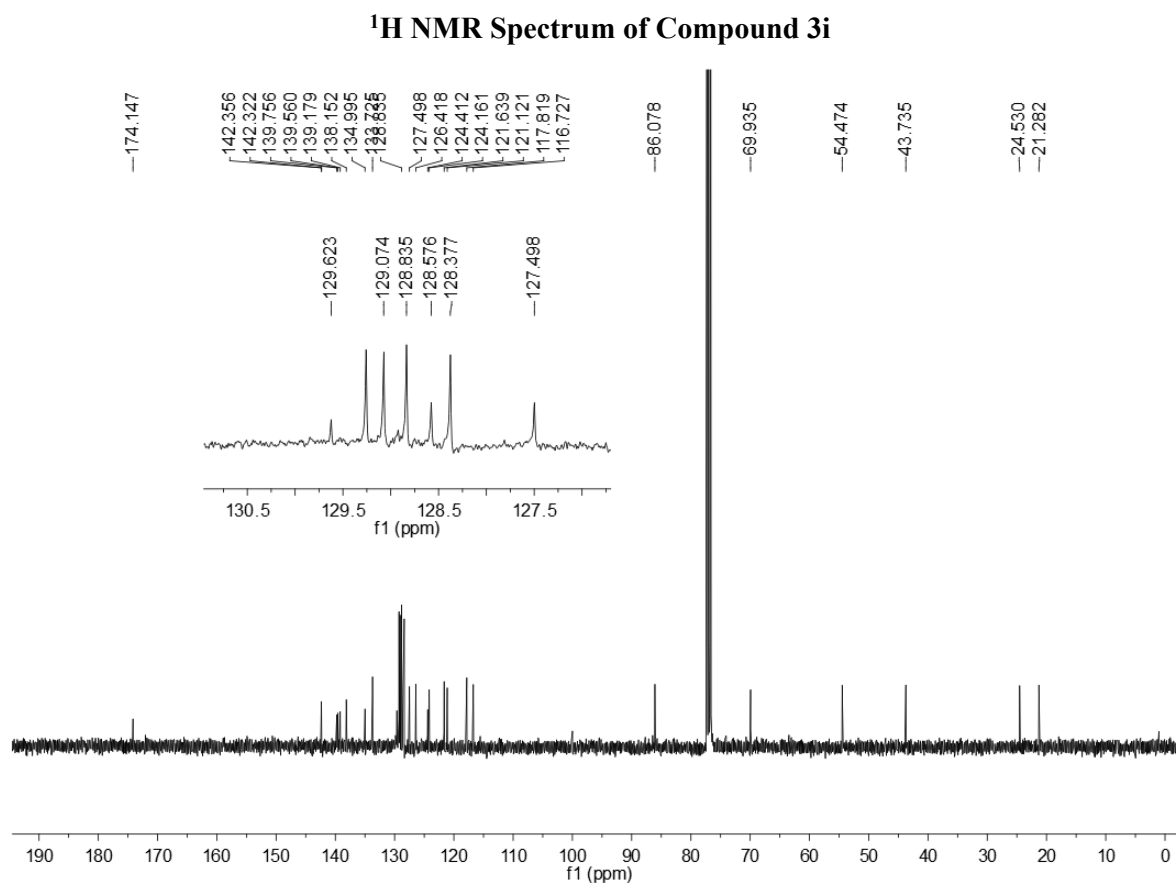
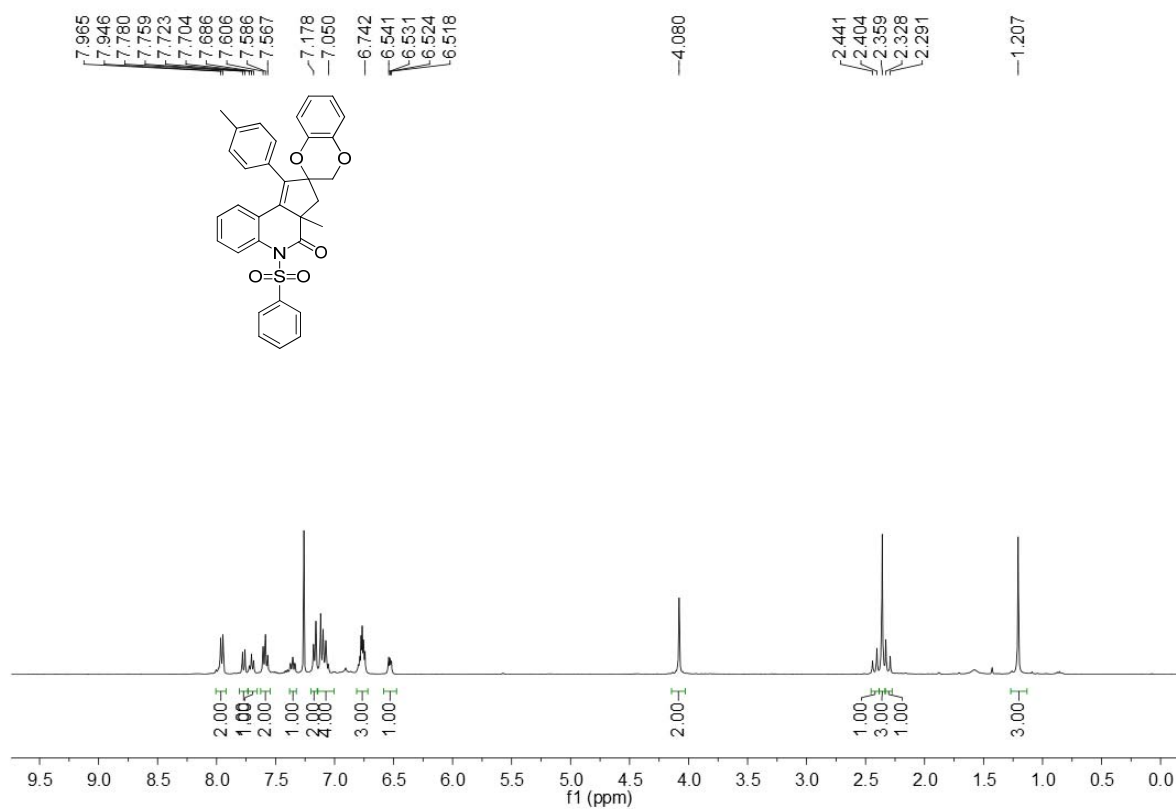


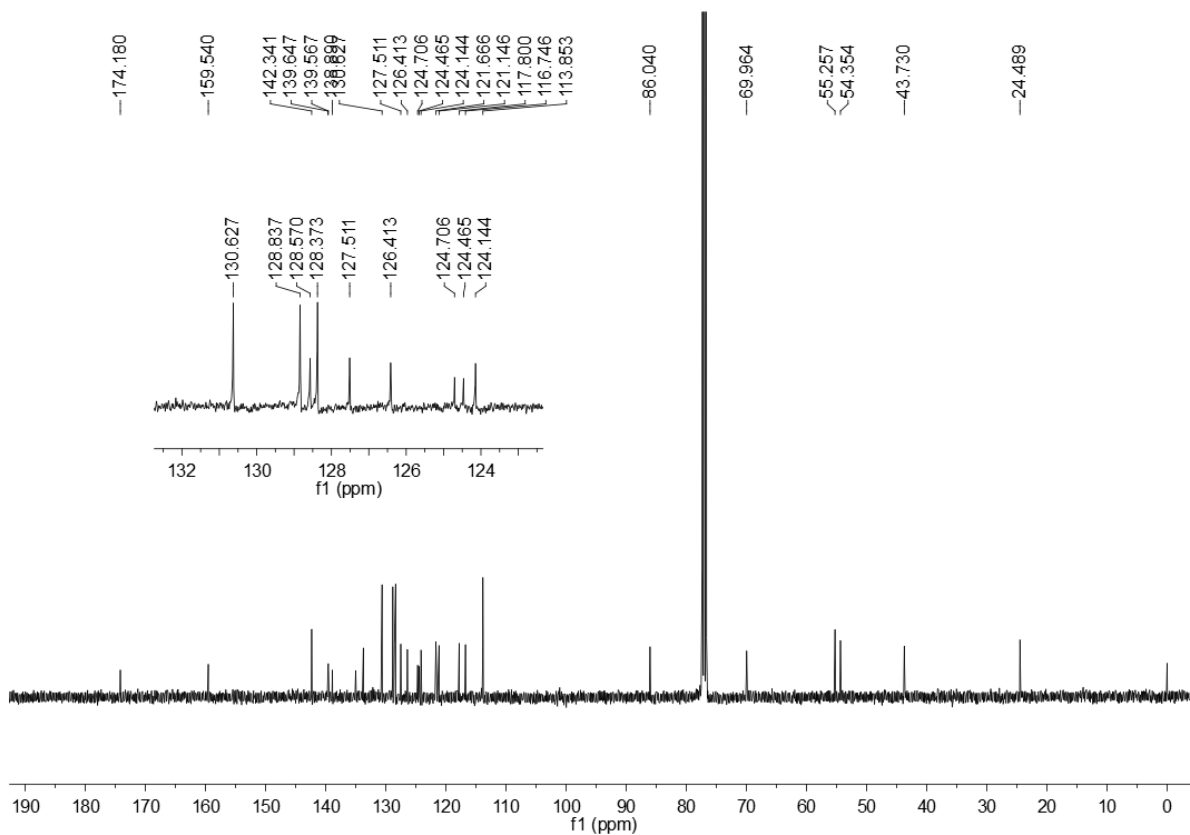
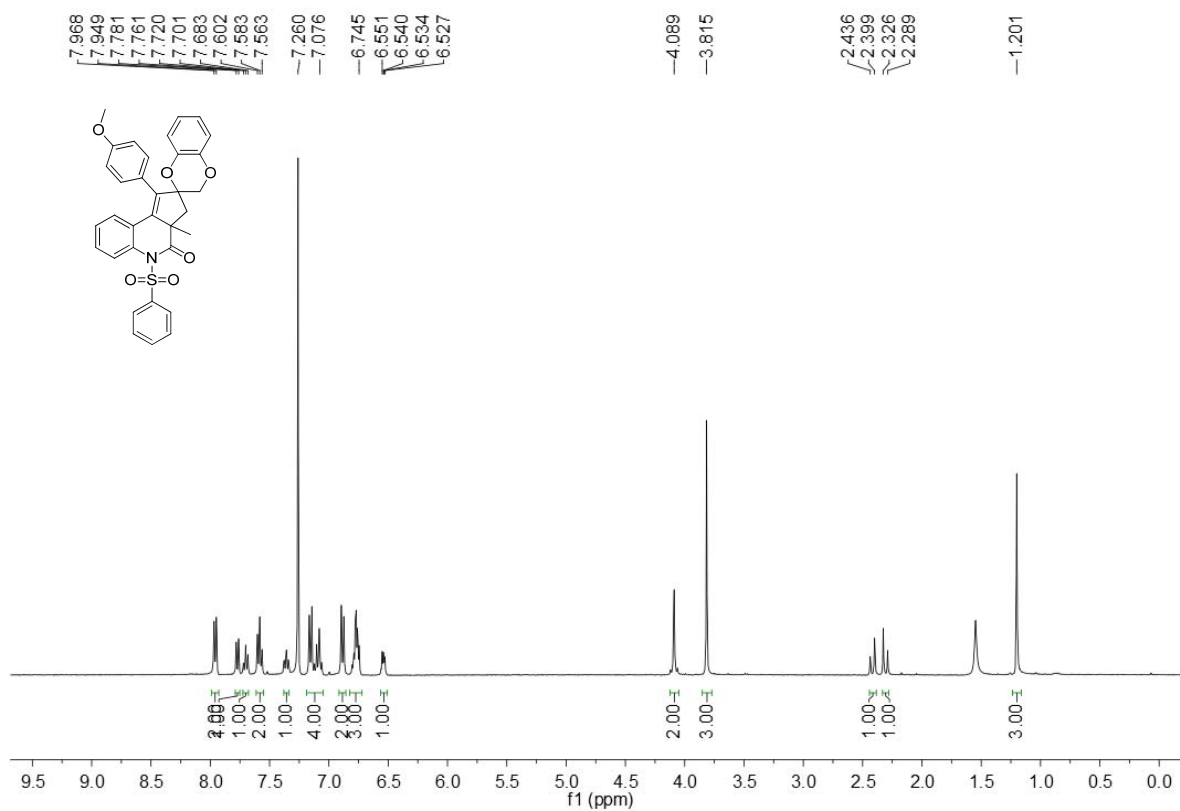


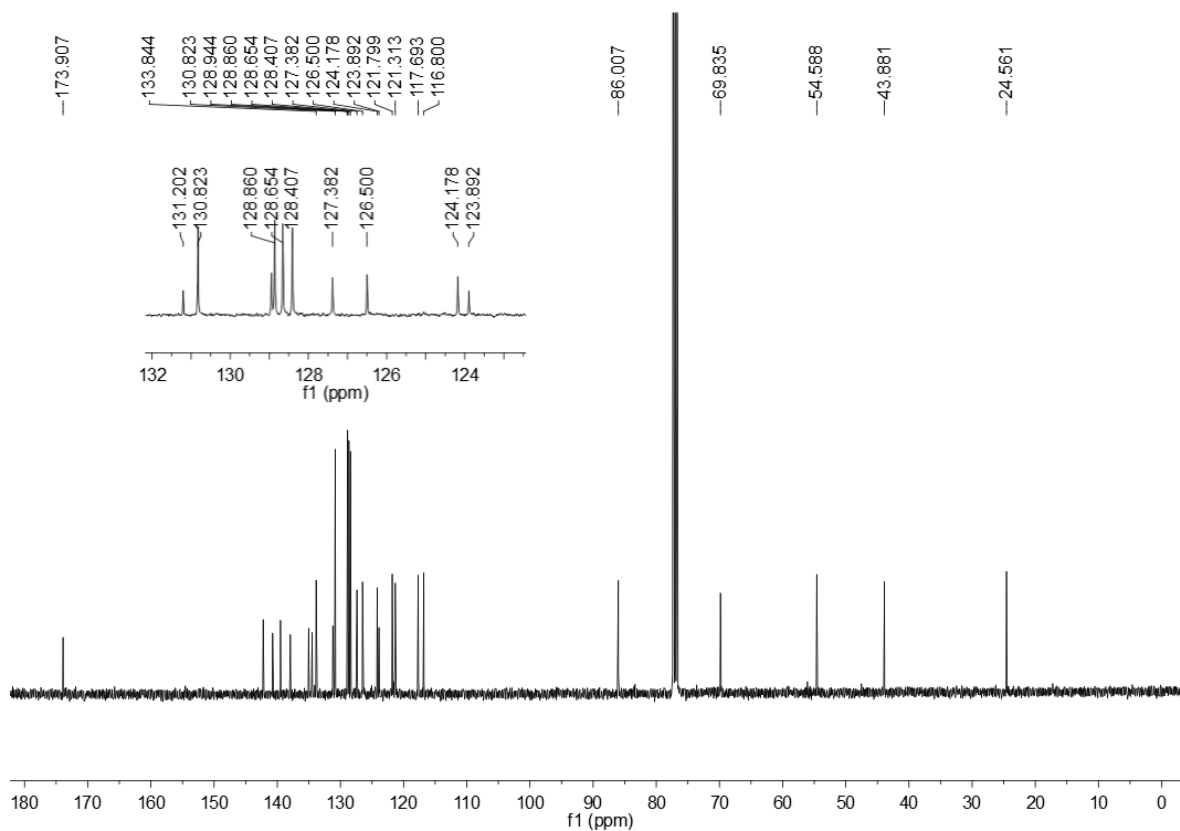
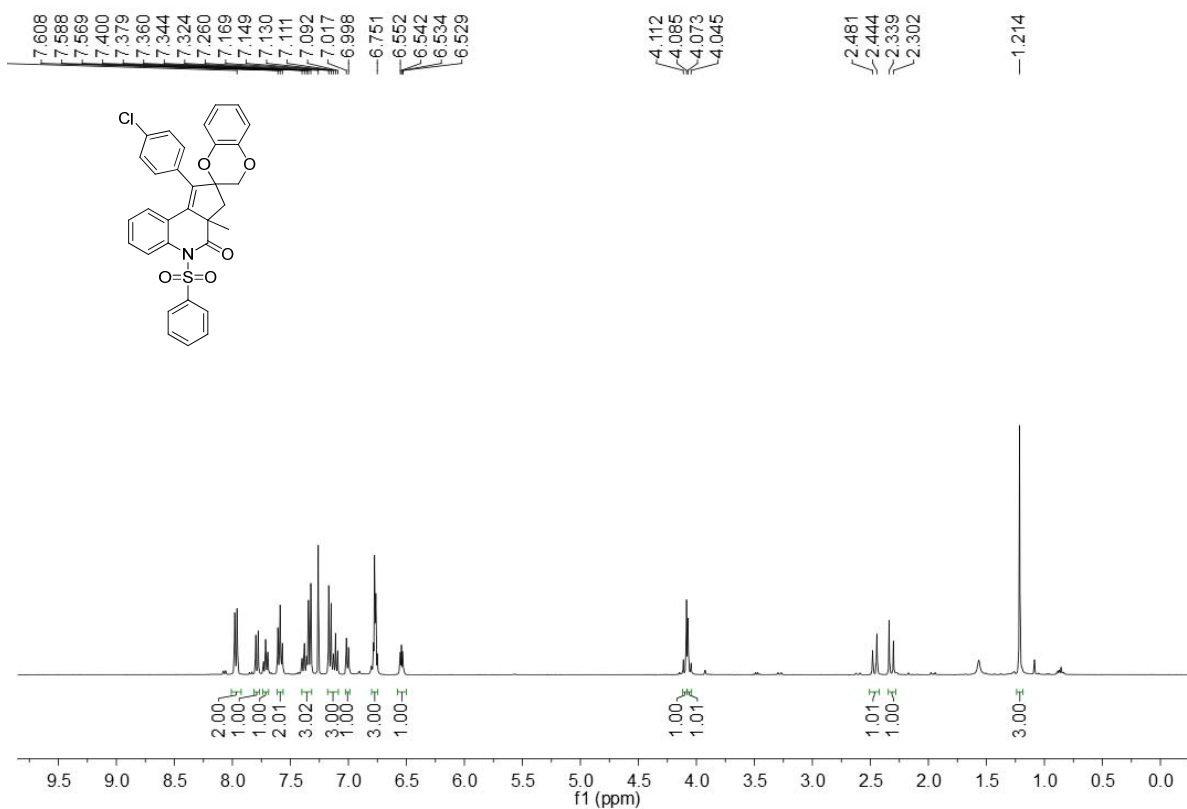
¹H NMR Spectrum of Compound 3h

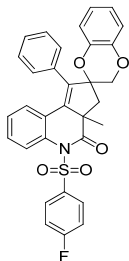


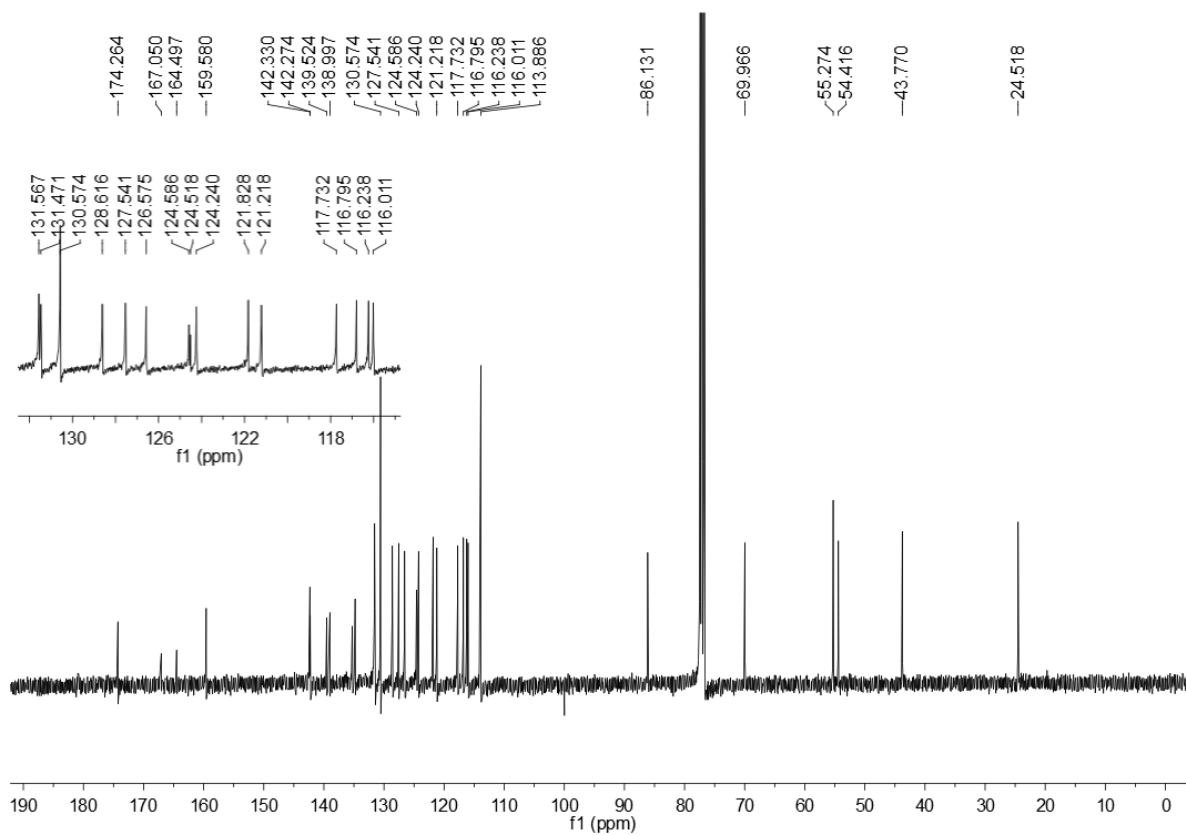
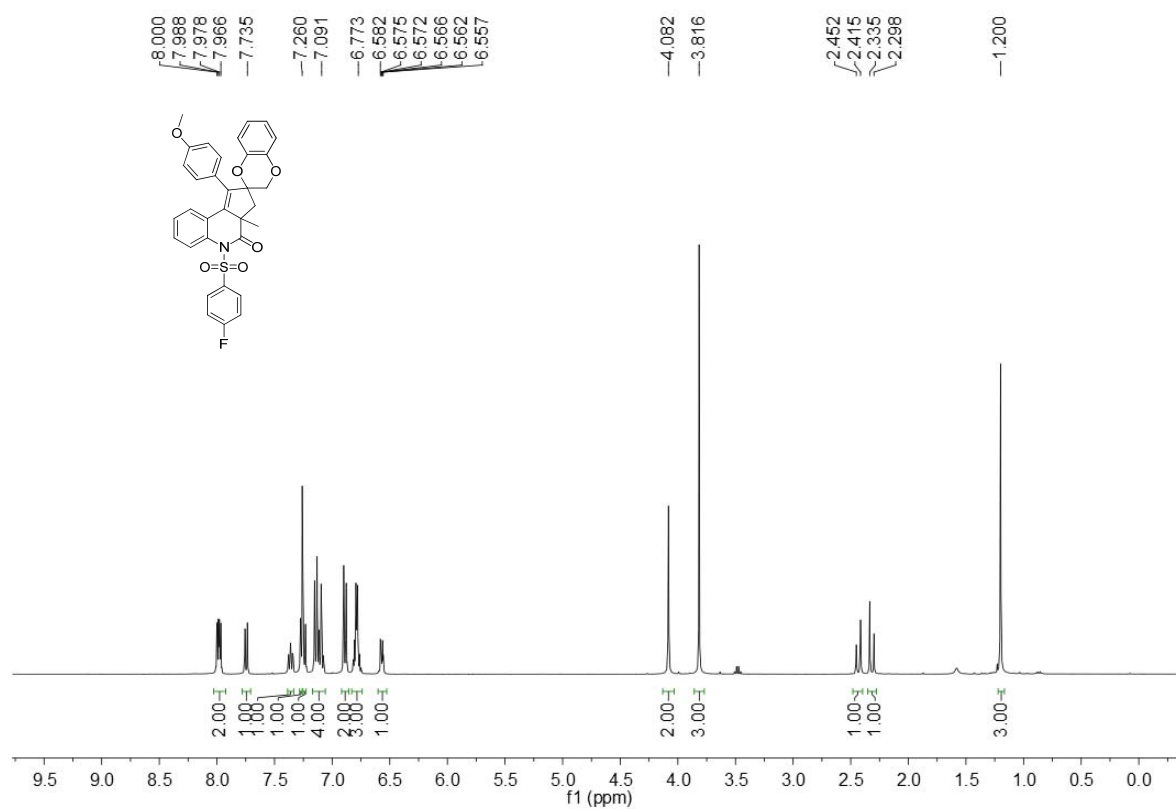
¹³C NMR Spectrum of Compound 3h

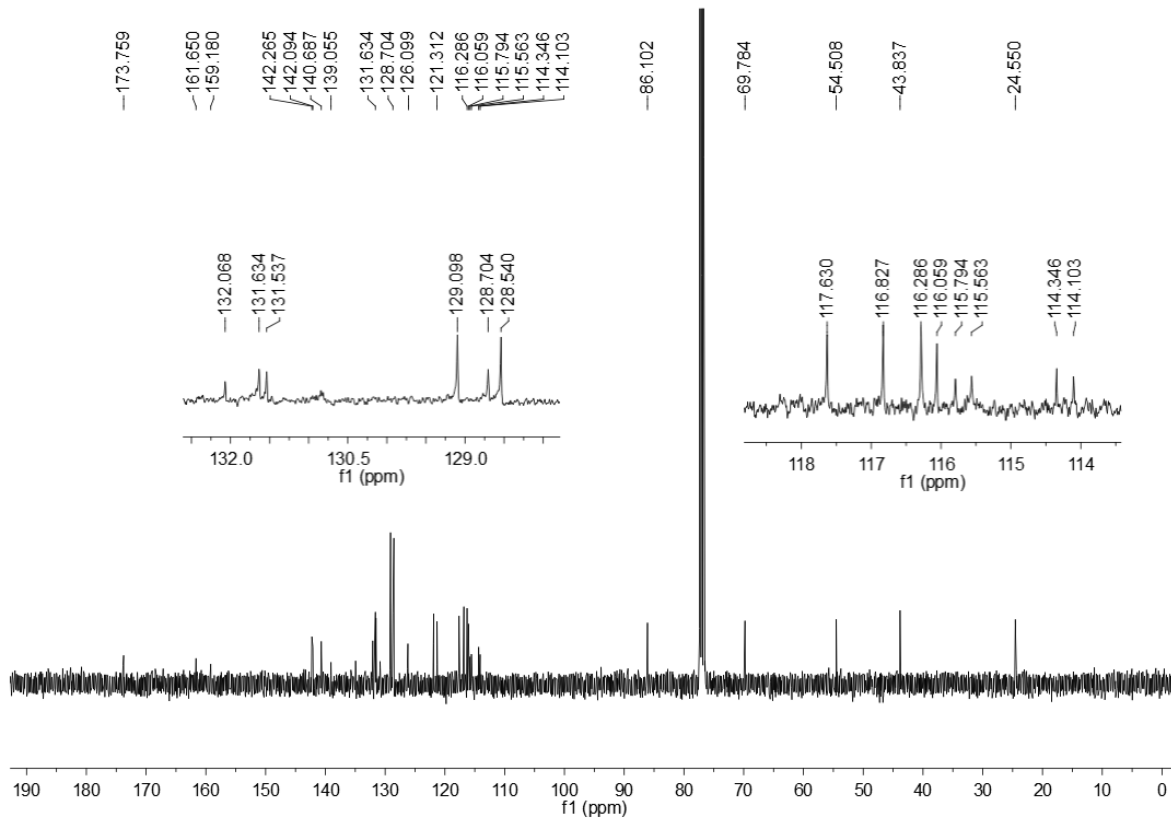
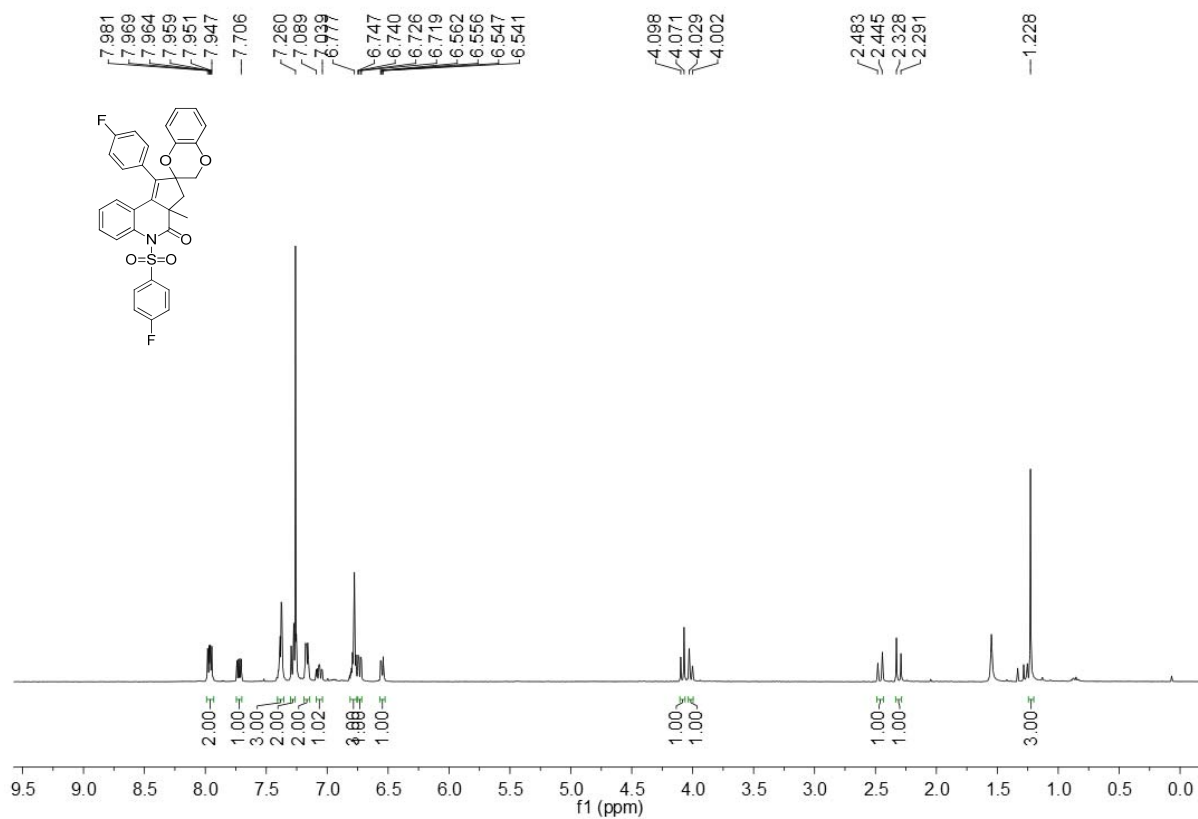


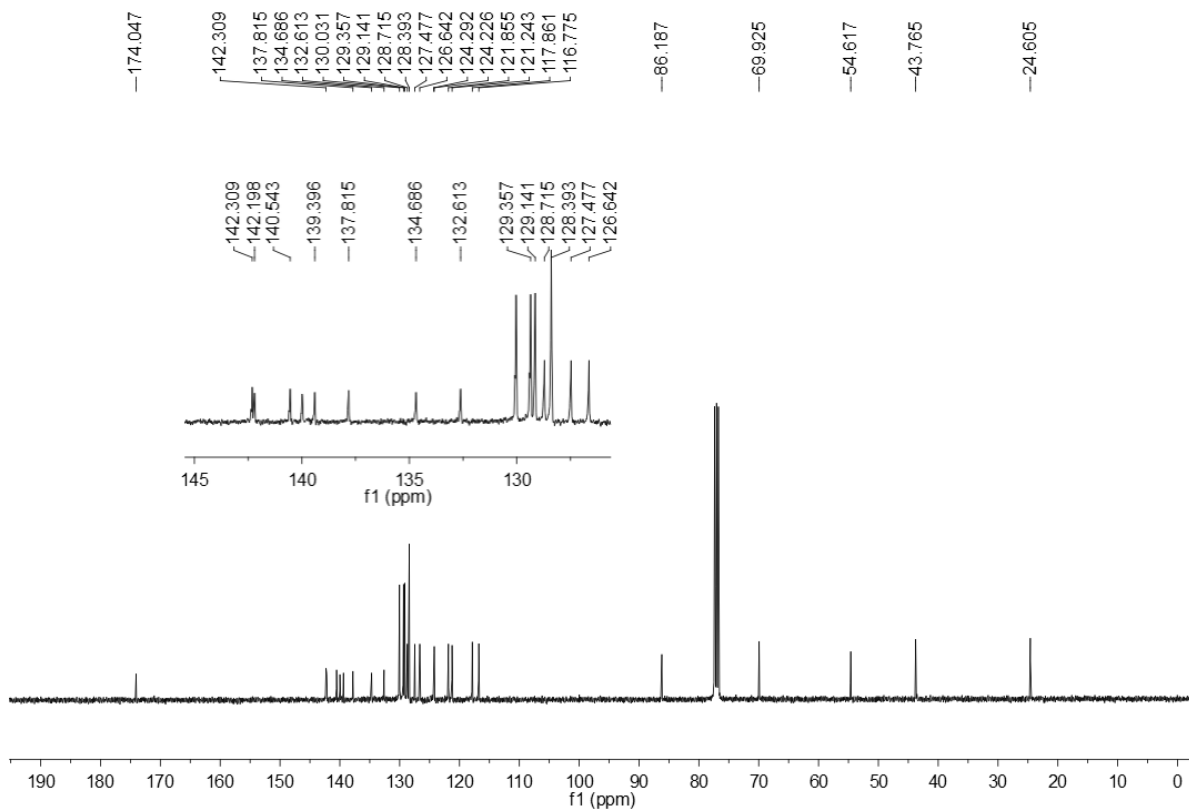
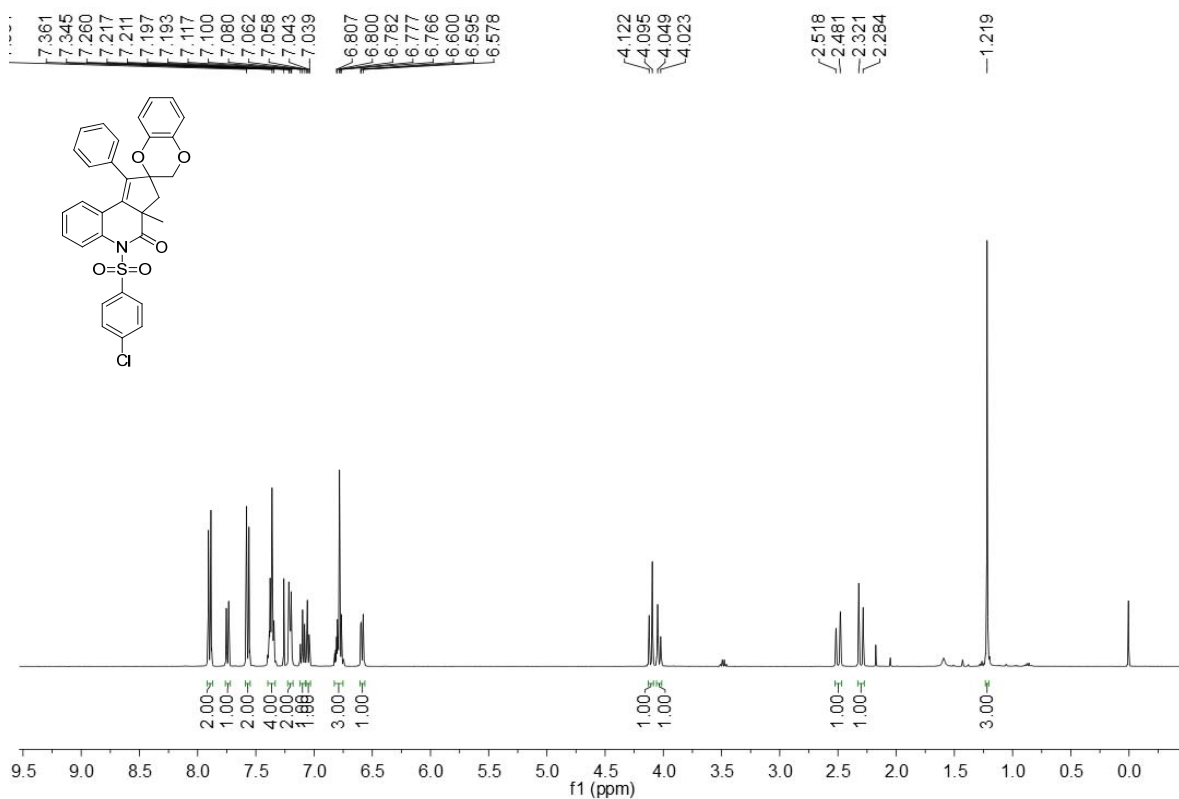


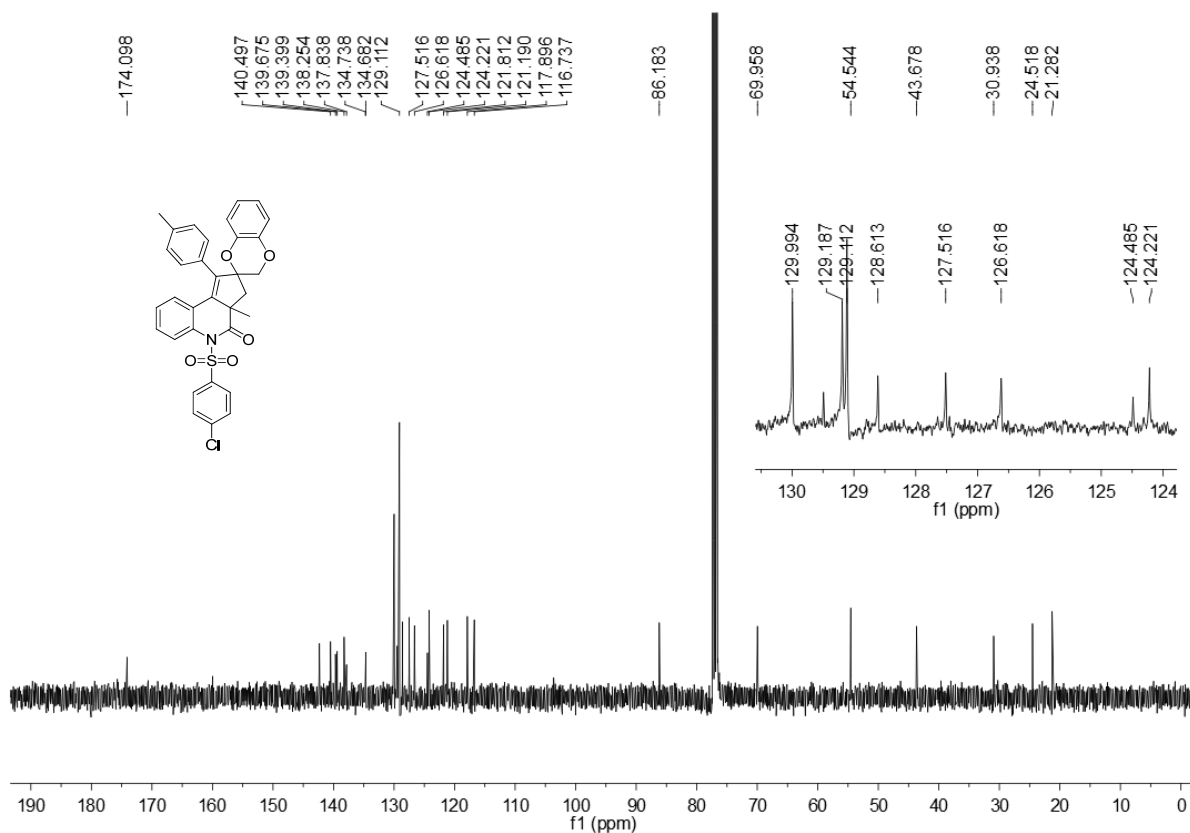
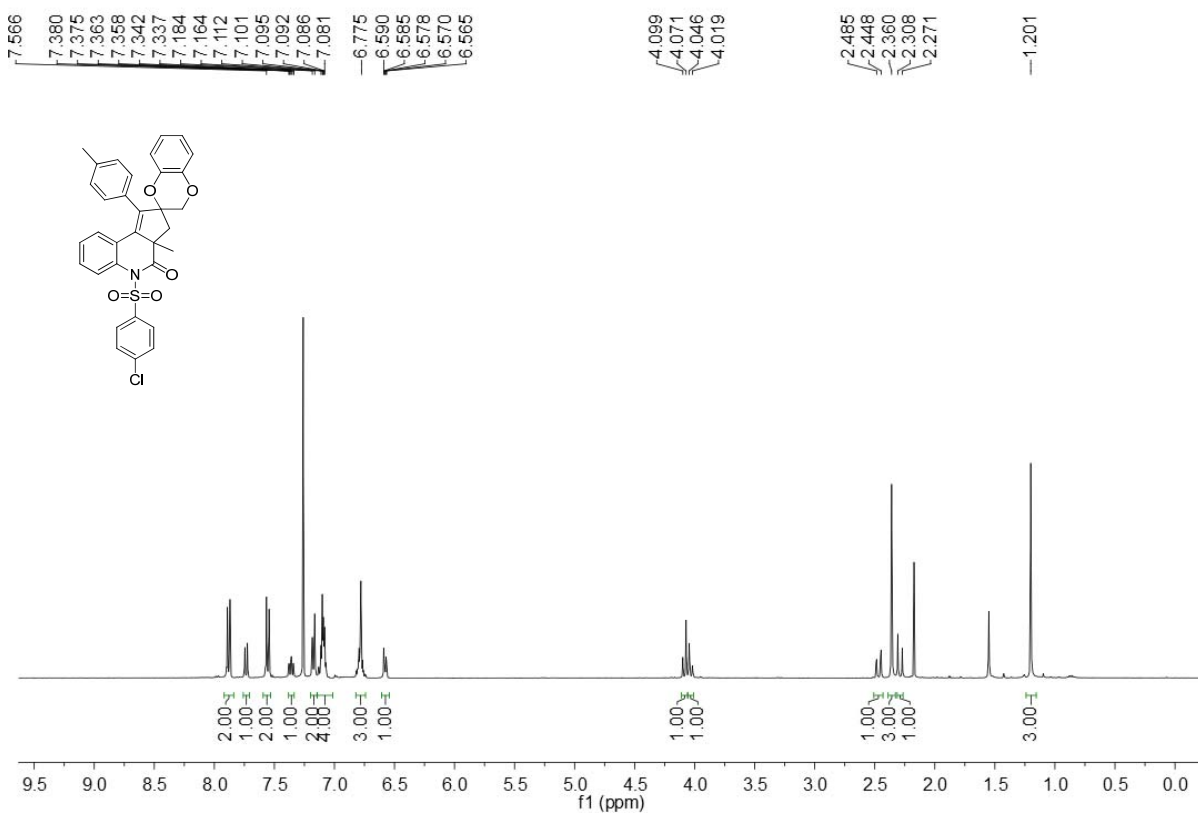


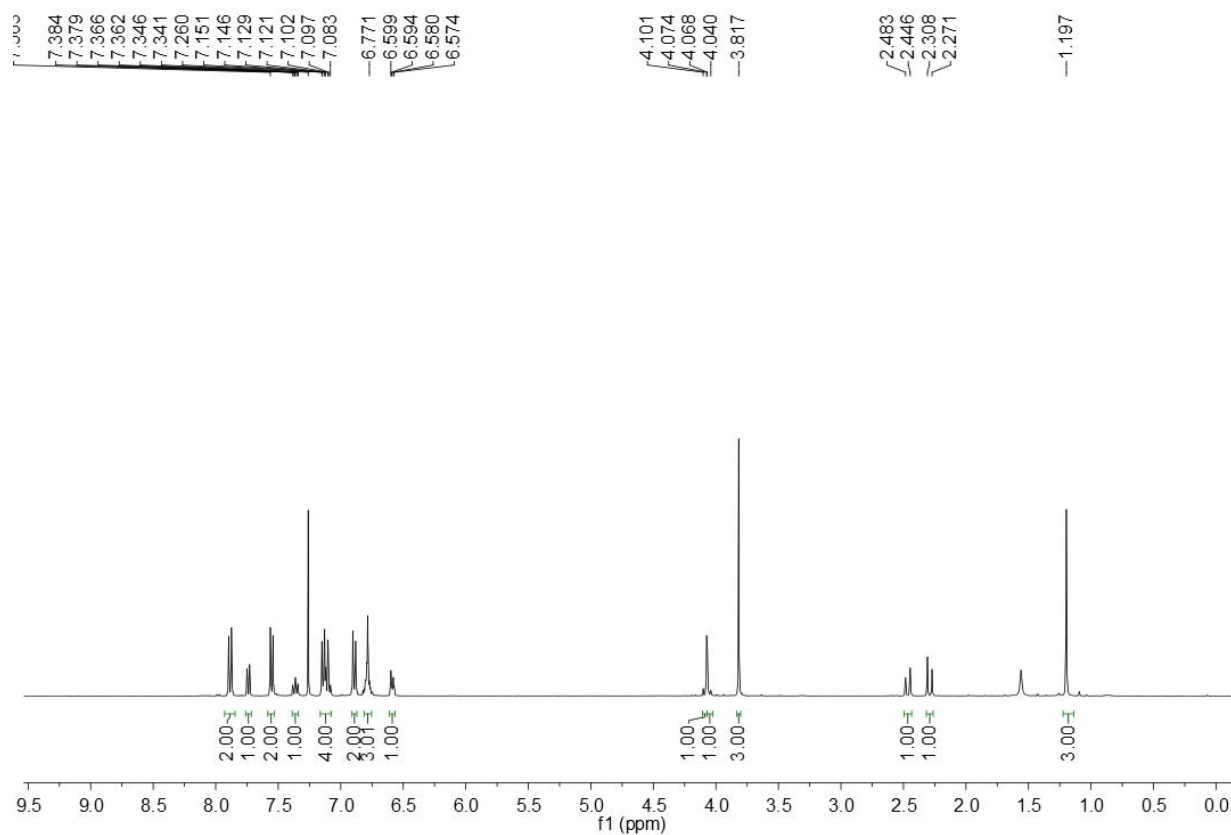




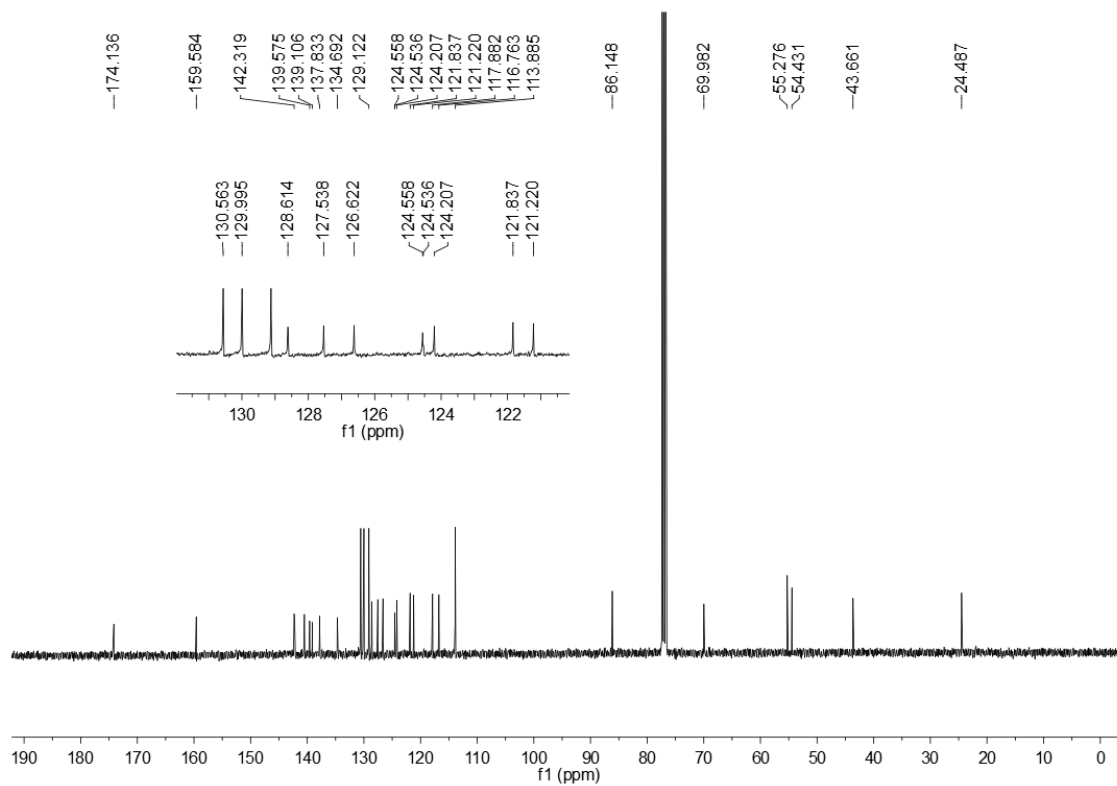




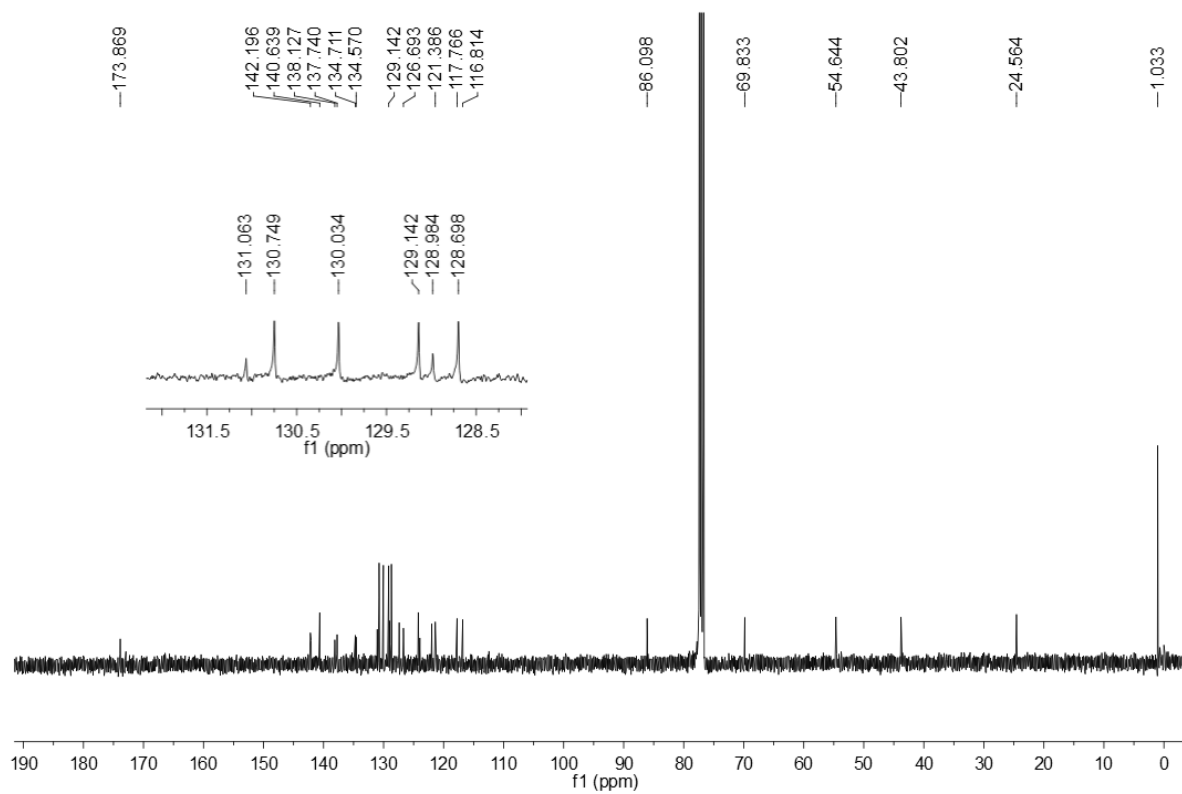
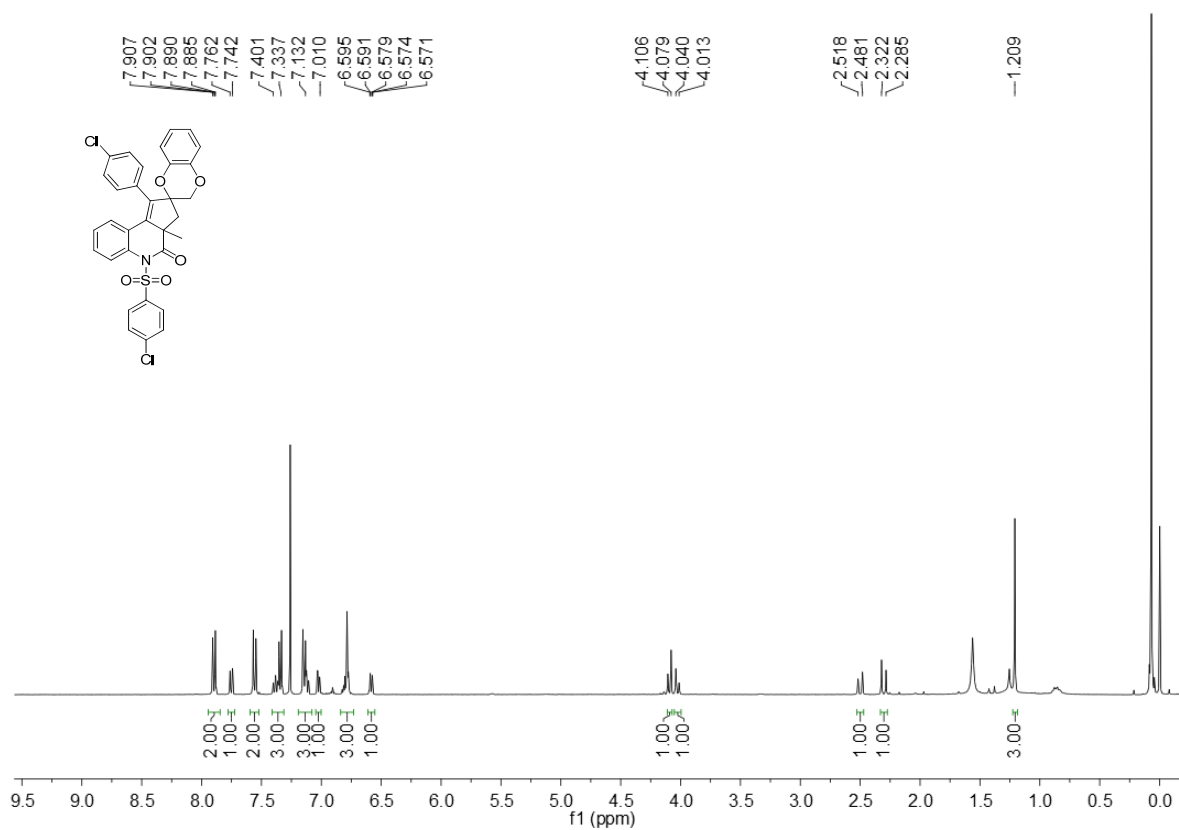


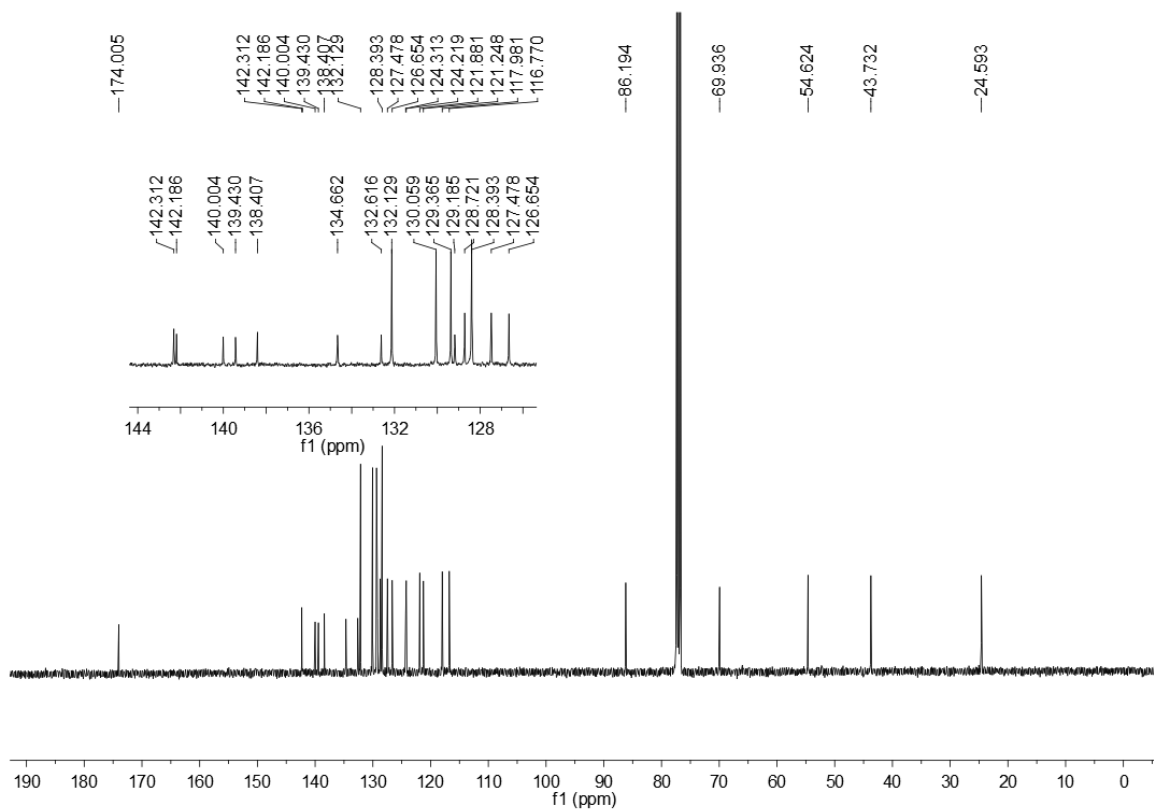
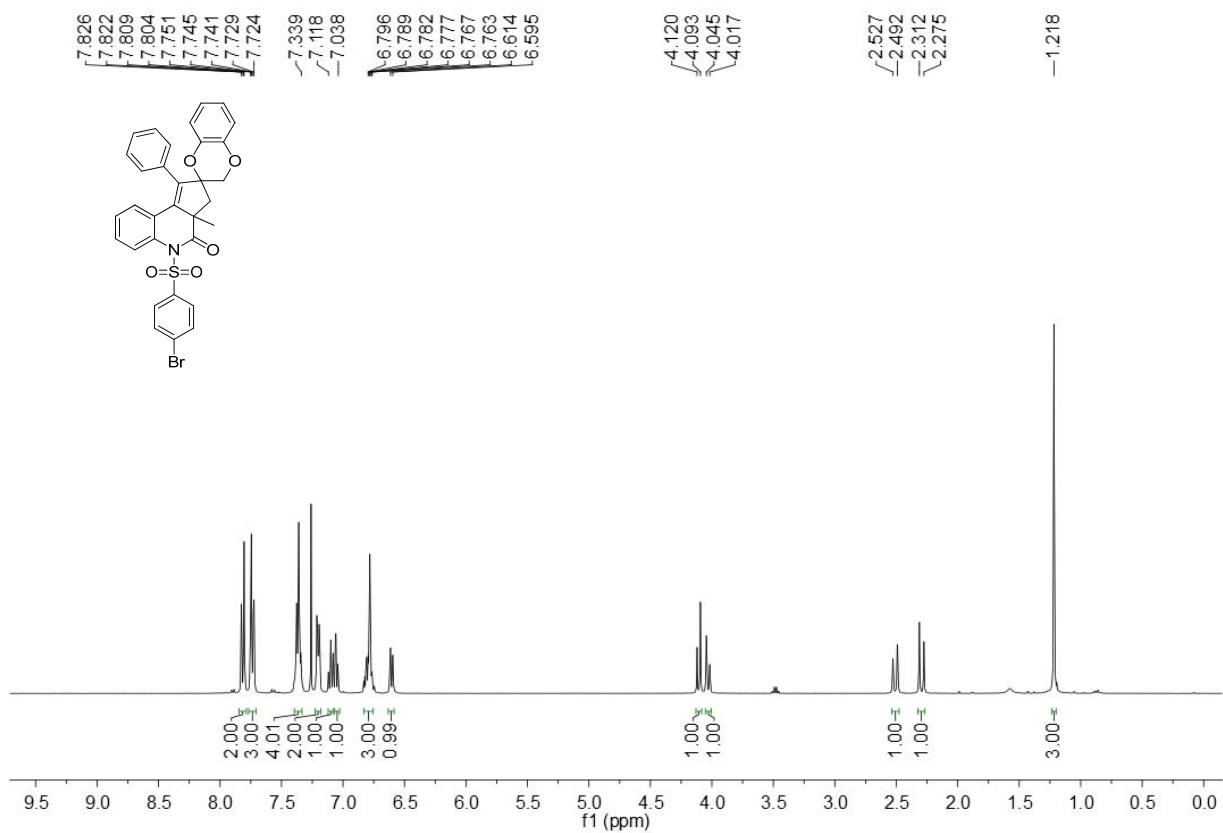


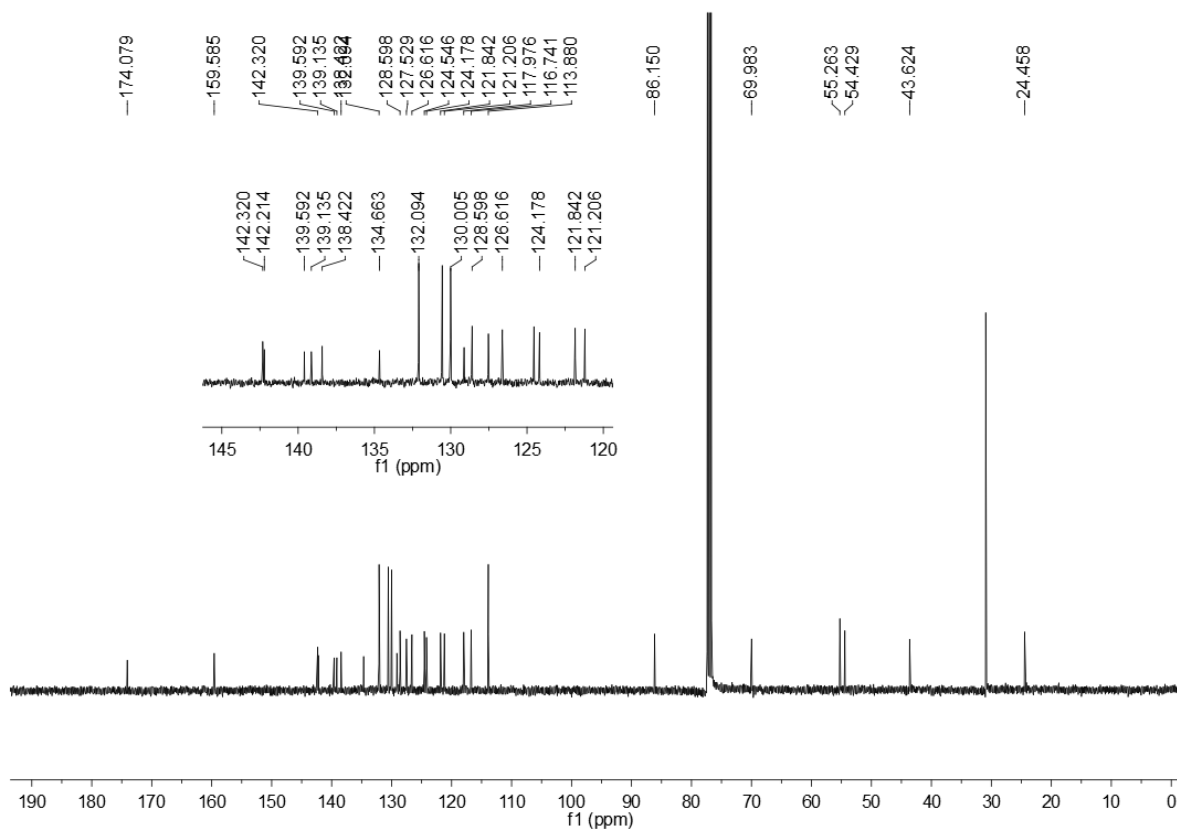
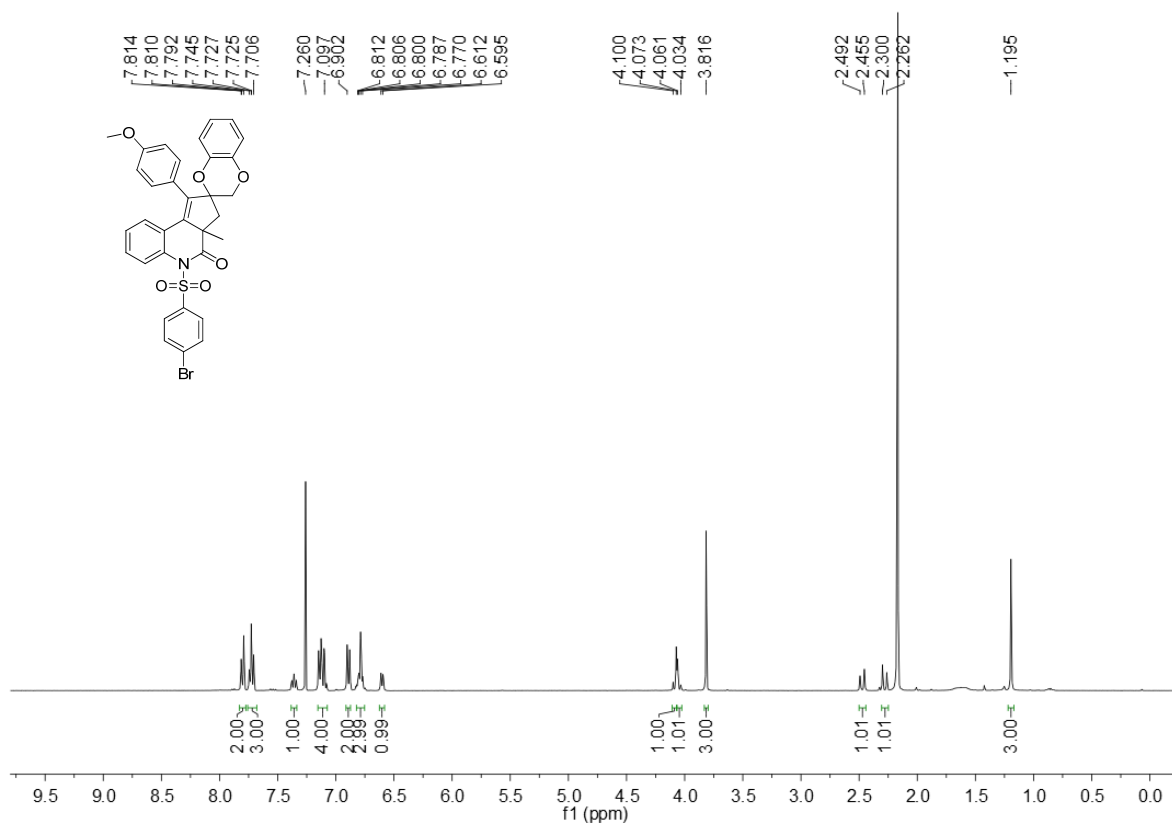
¹H NMR Spectrum of Compound 3q

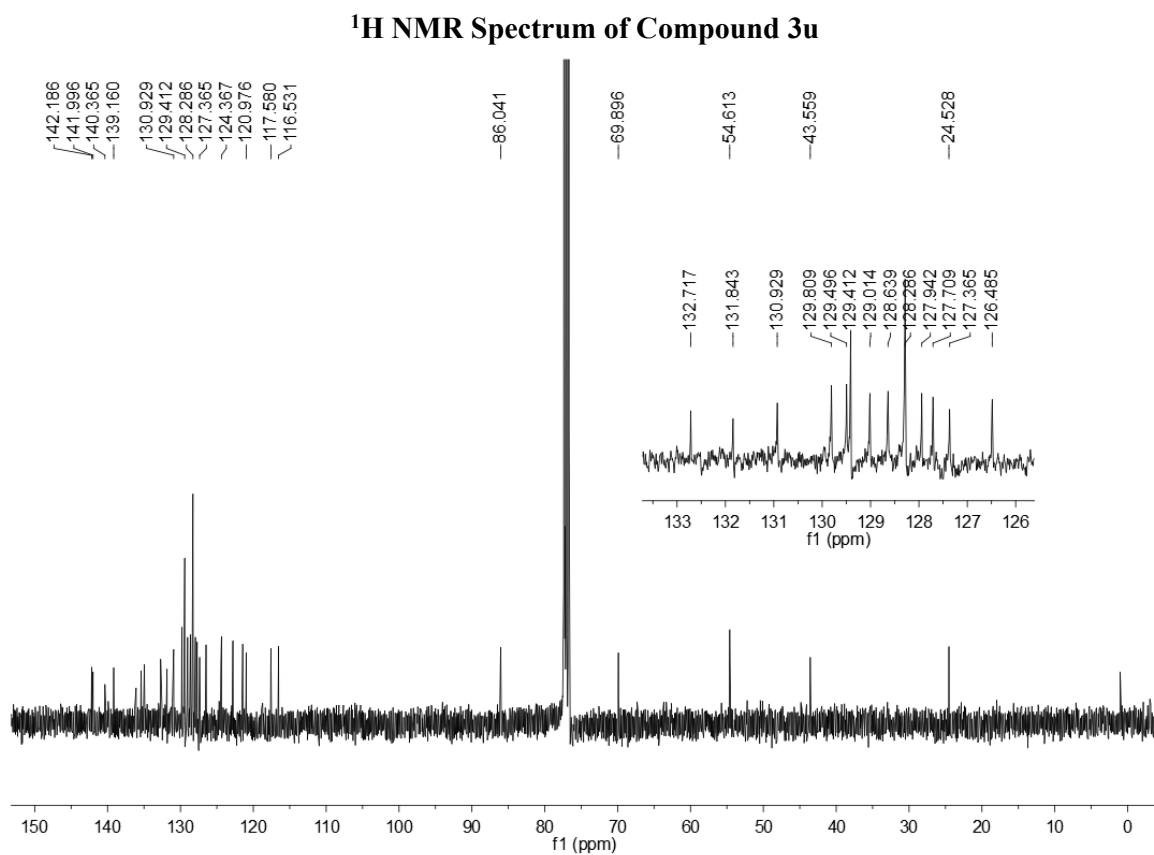
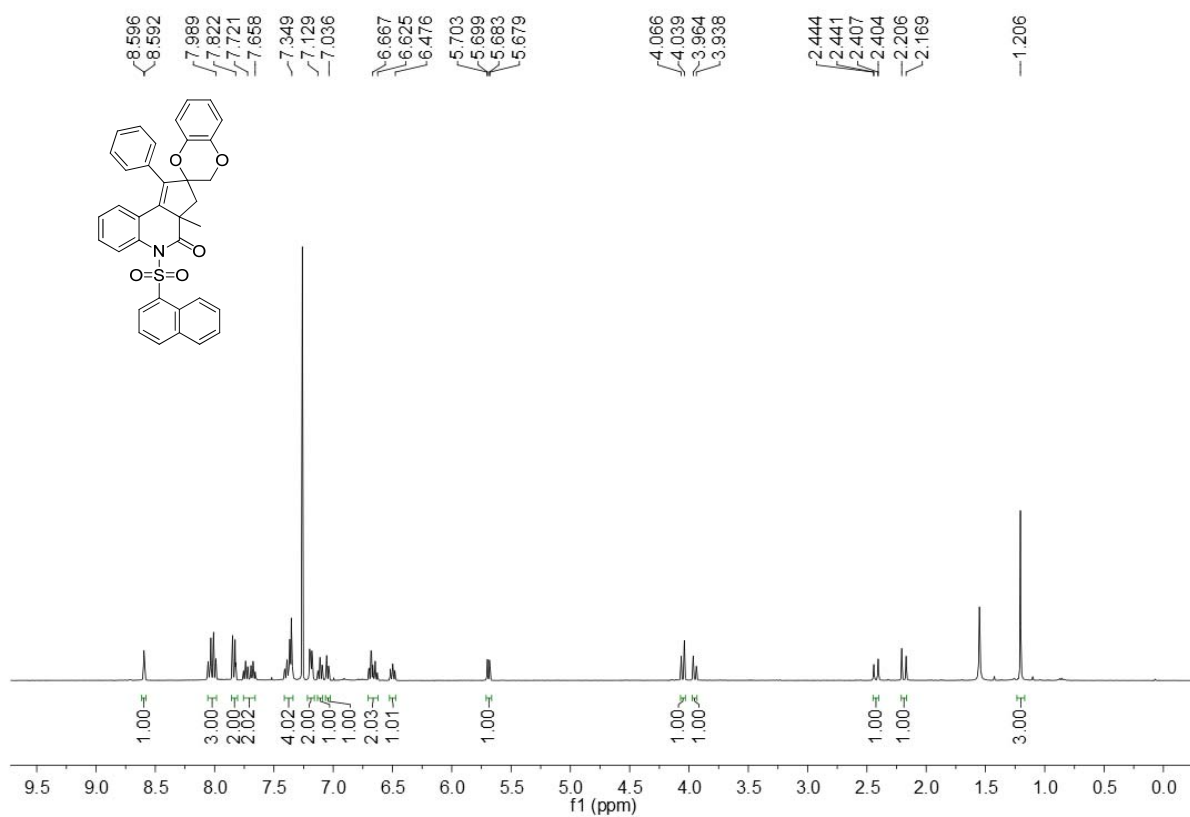


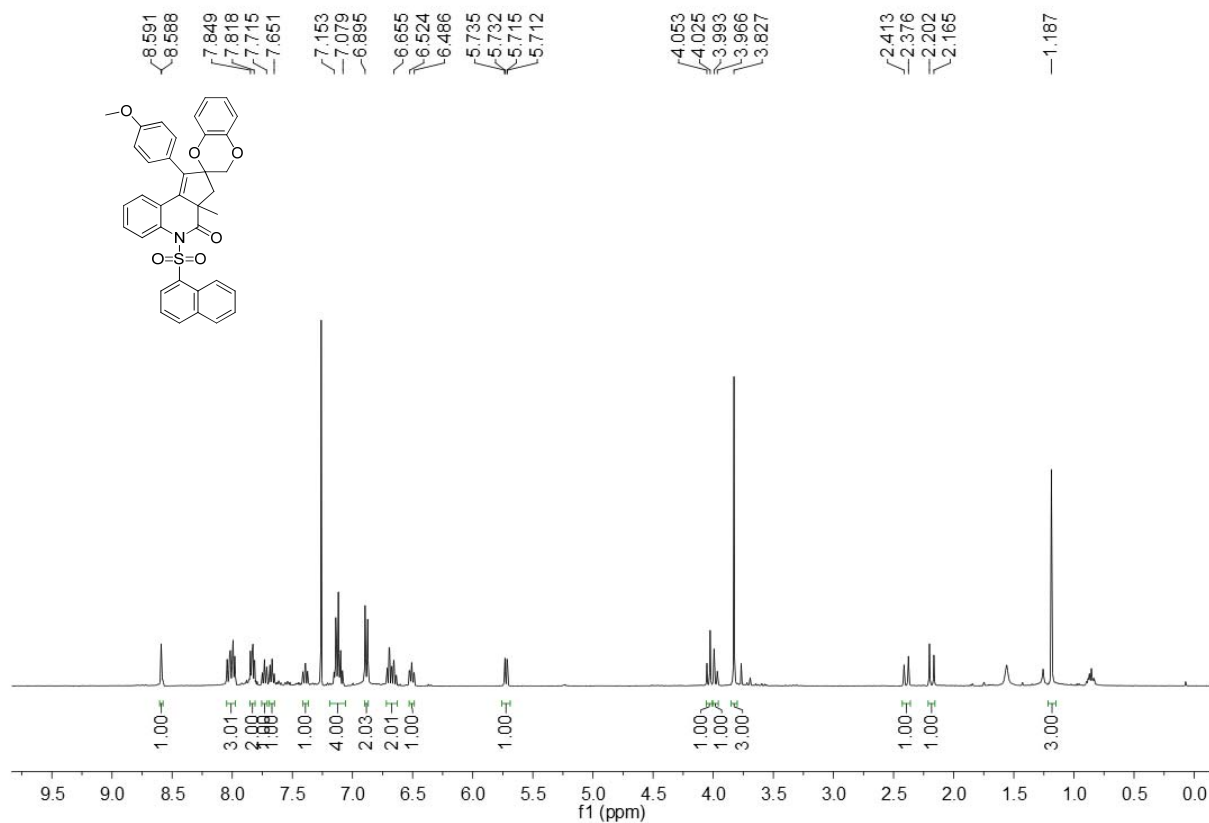
¹³C NMR Spectrum of Compound 3q



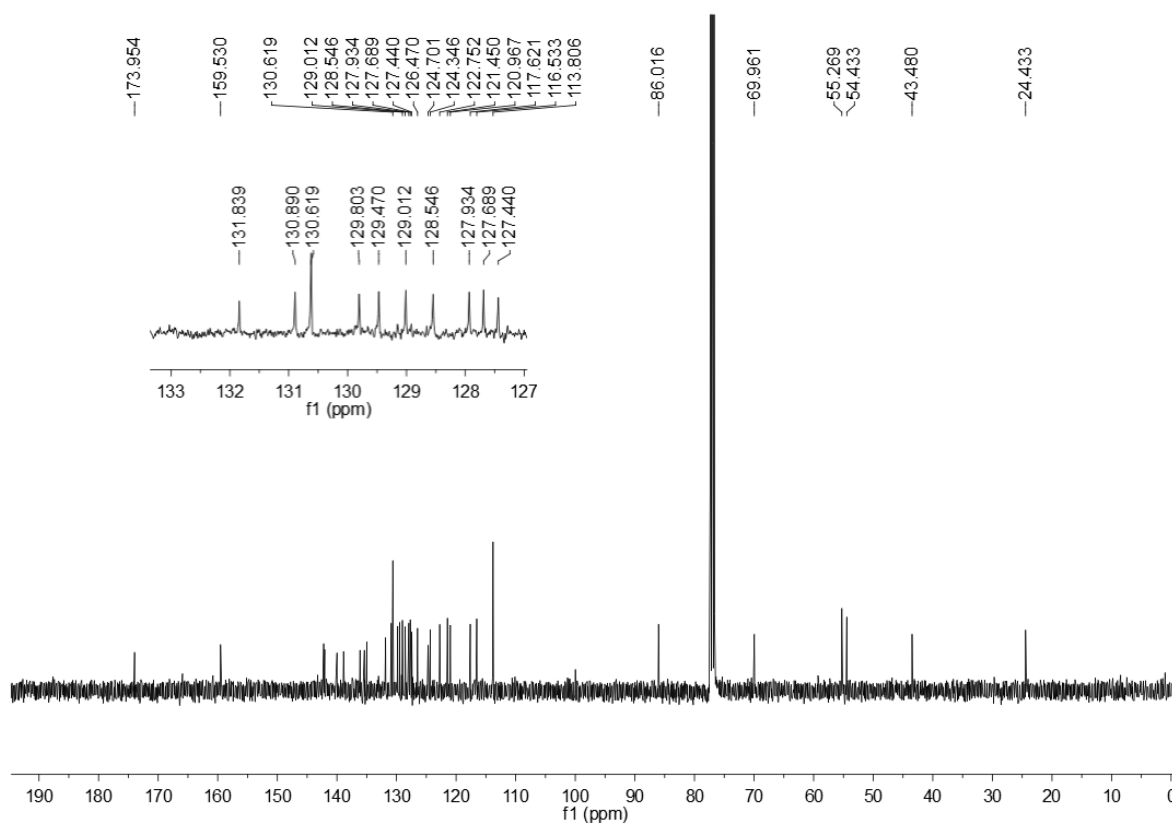




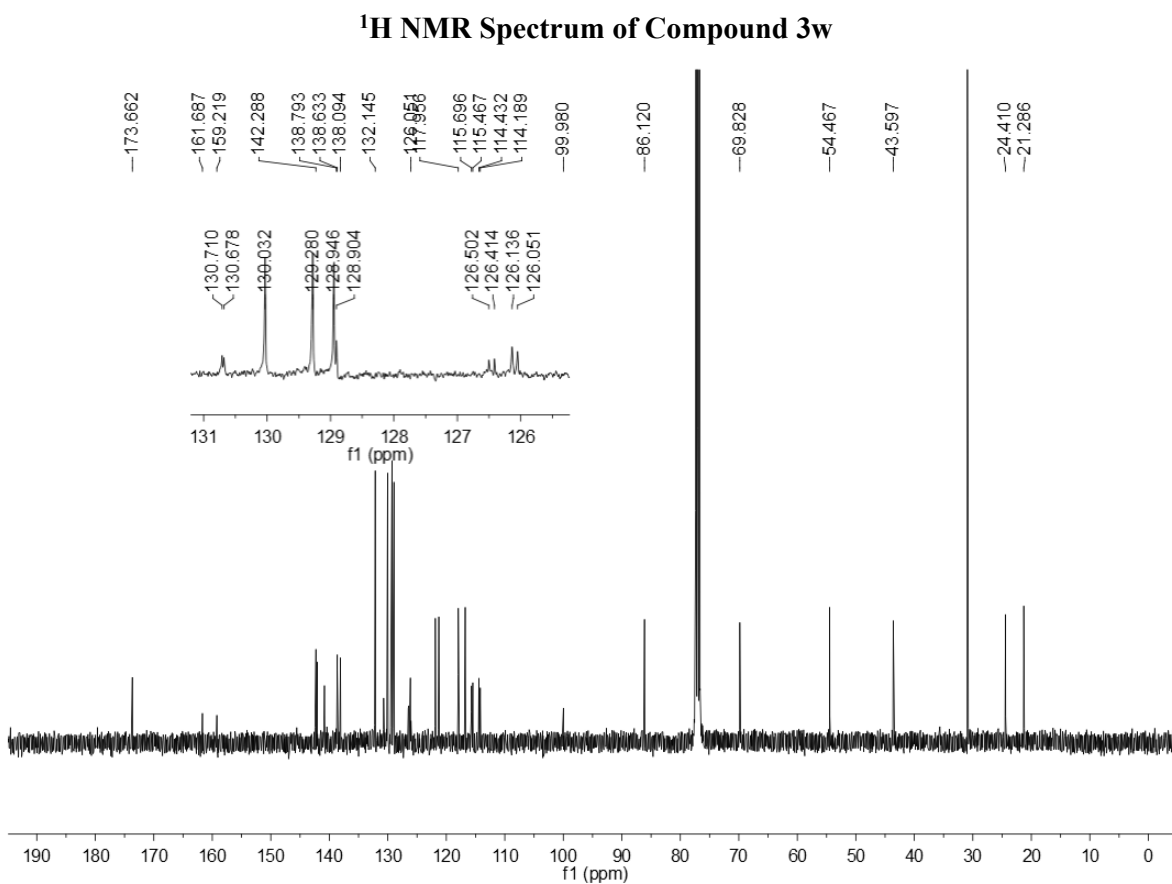
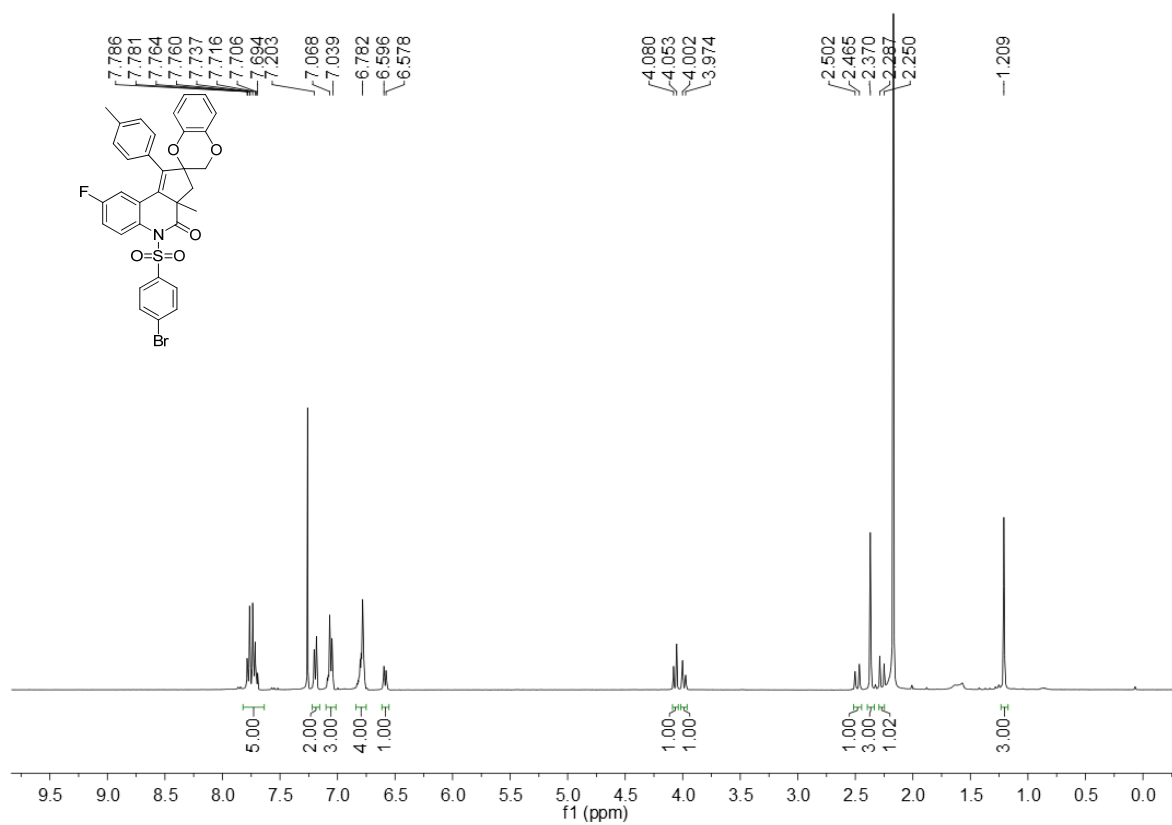


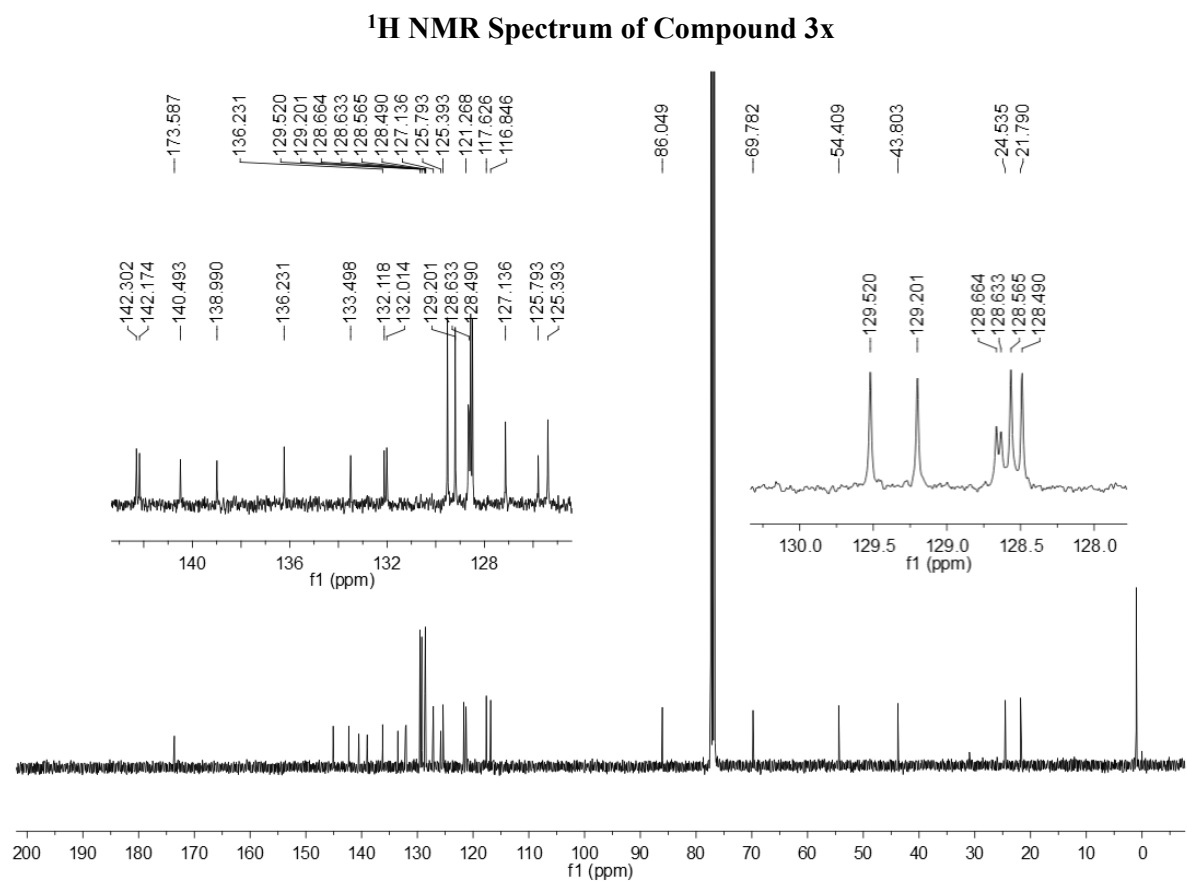
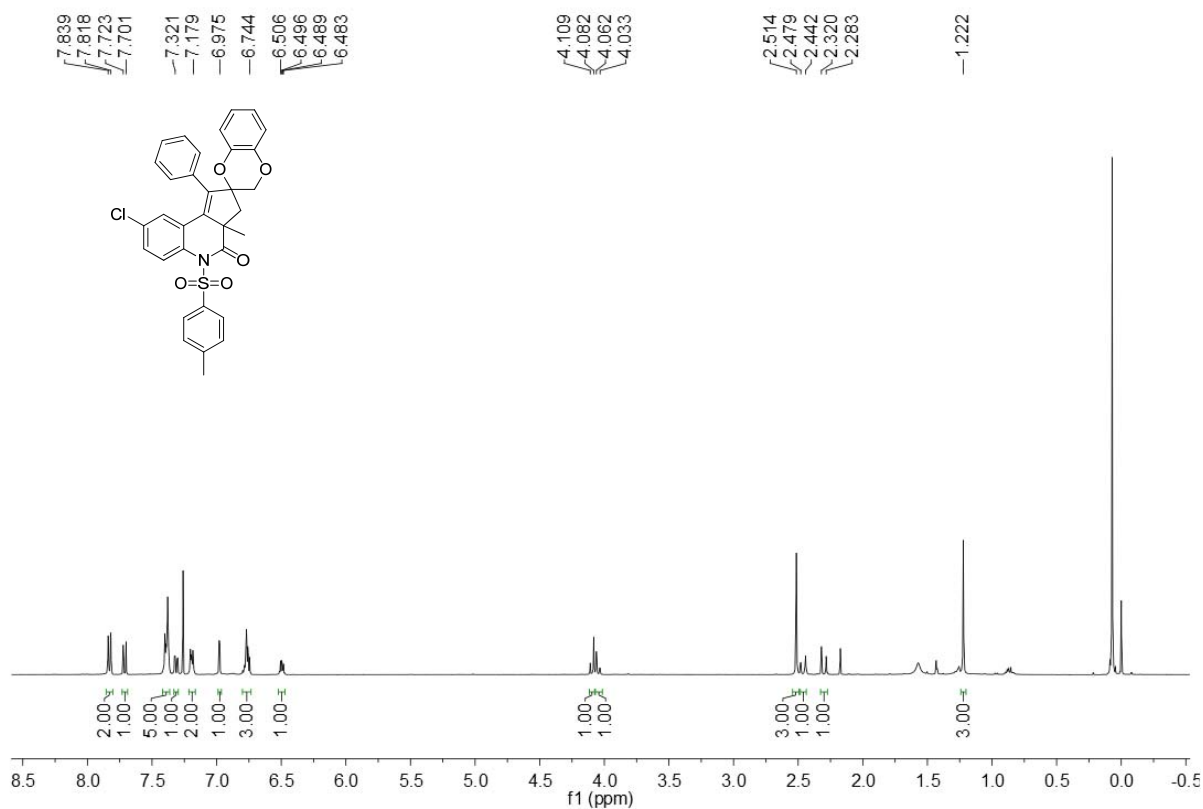


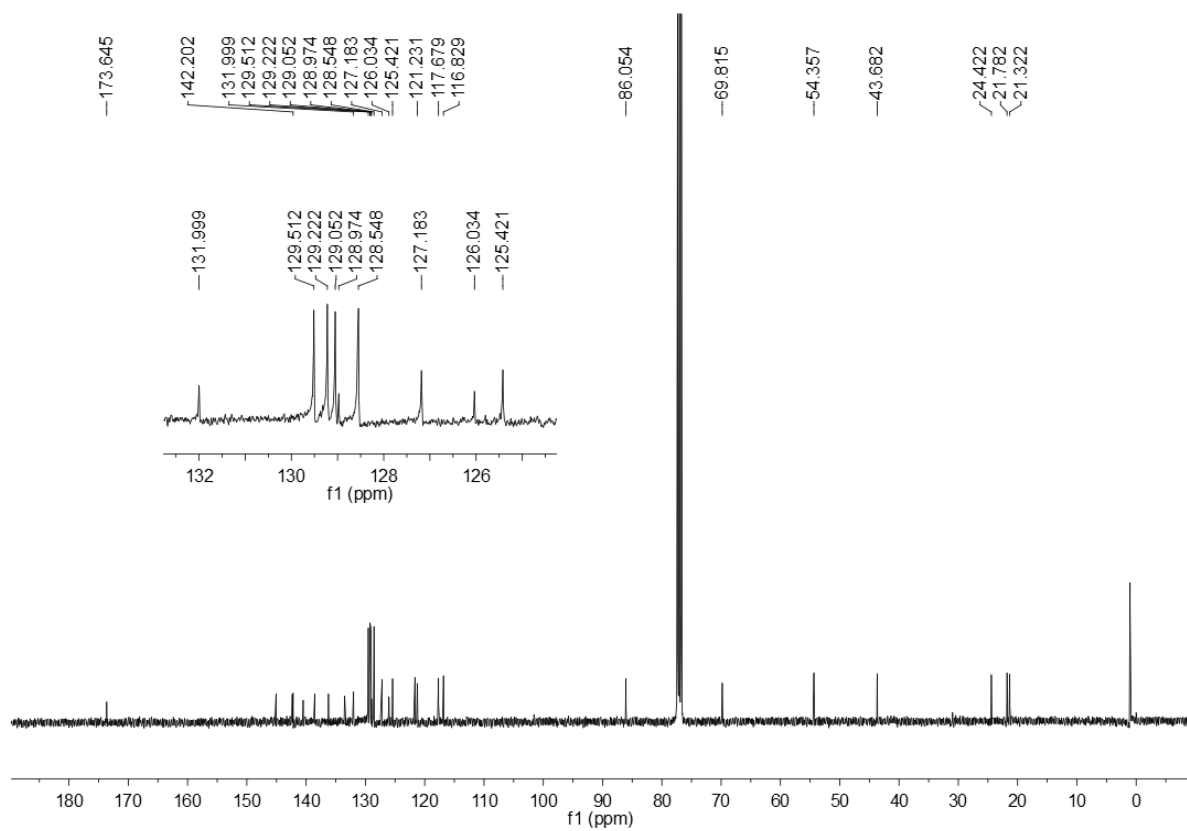
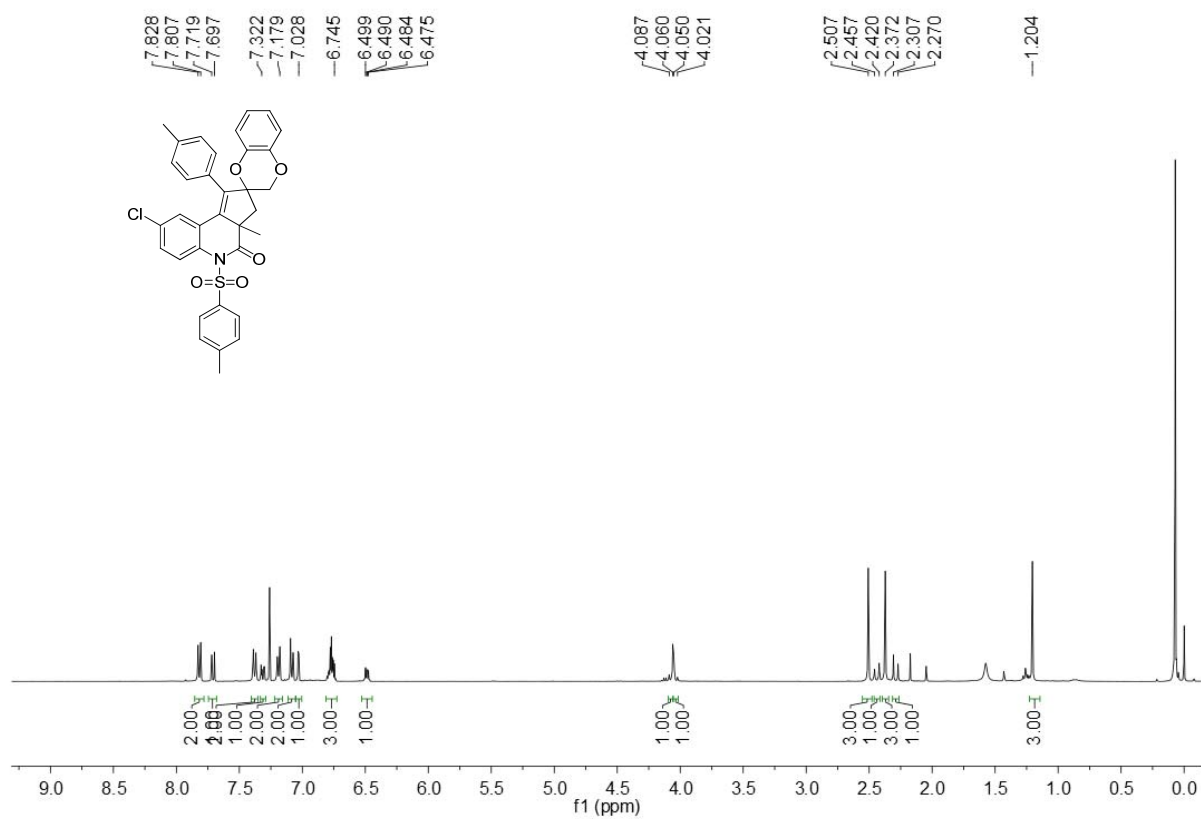
¹H NMR Spectrum of Compound 3v

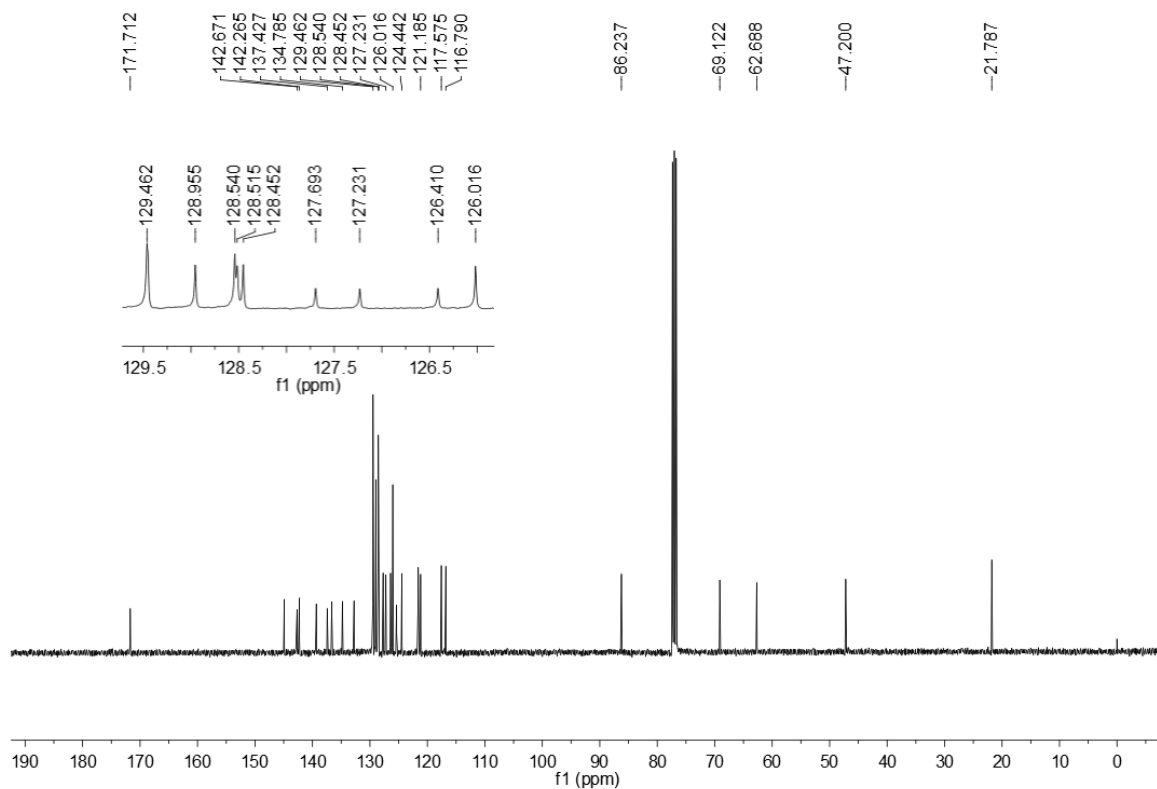
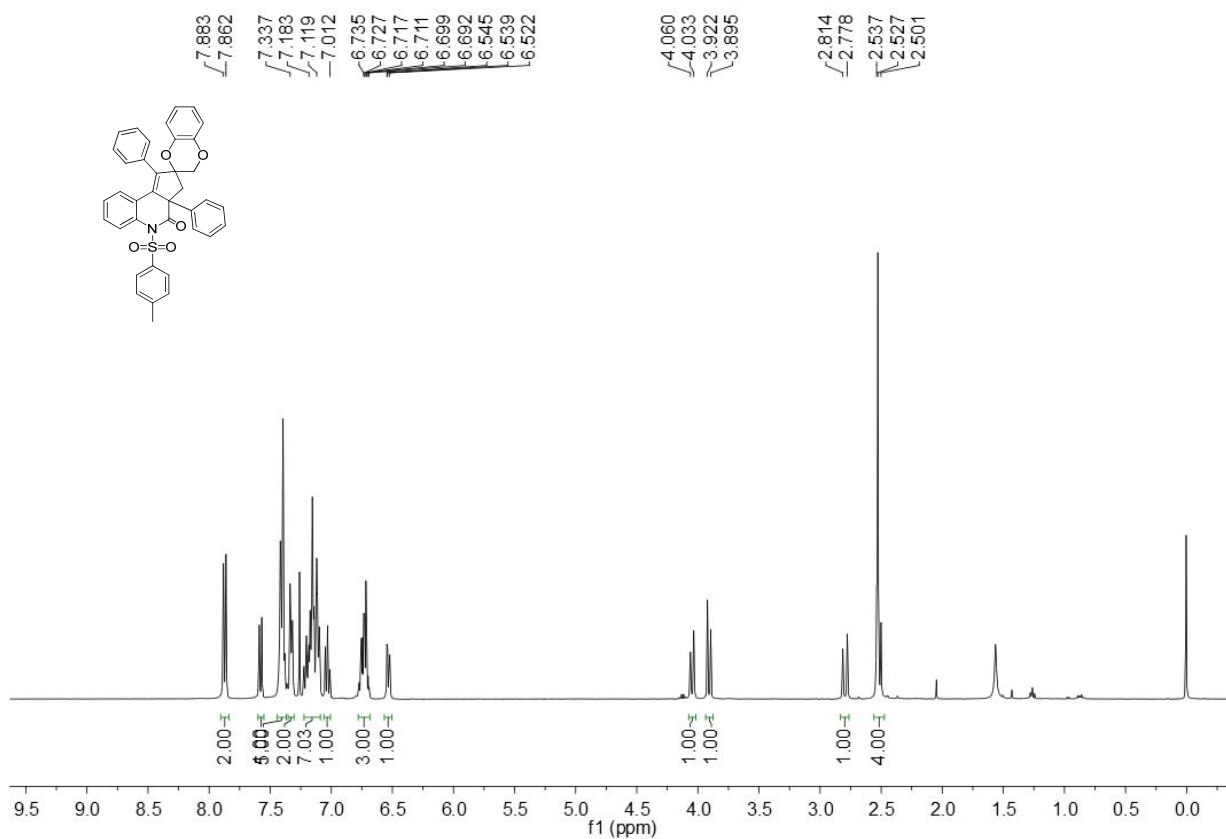


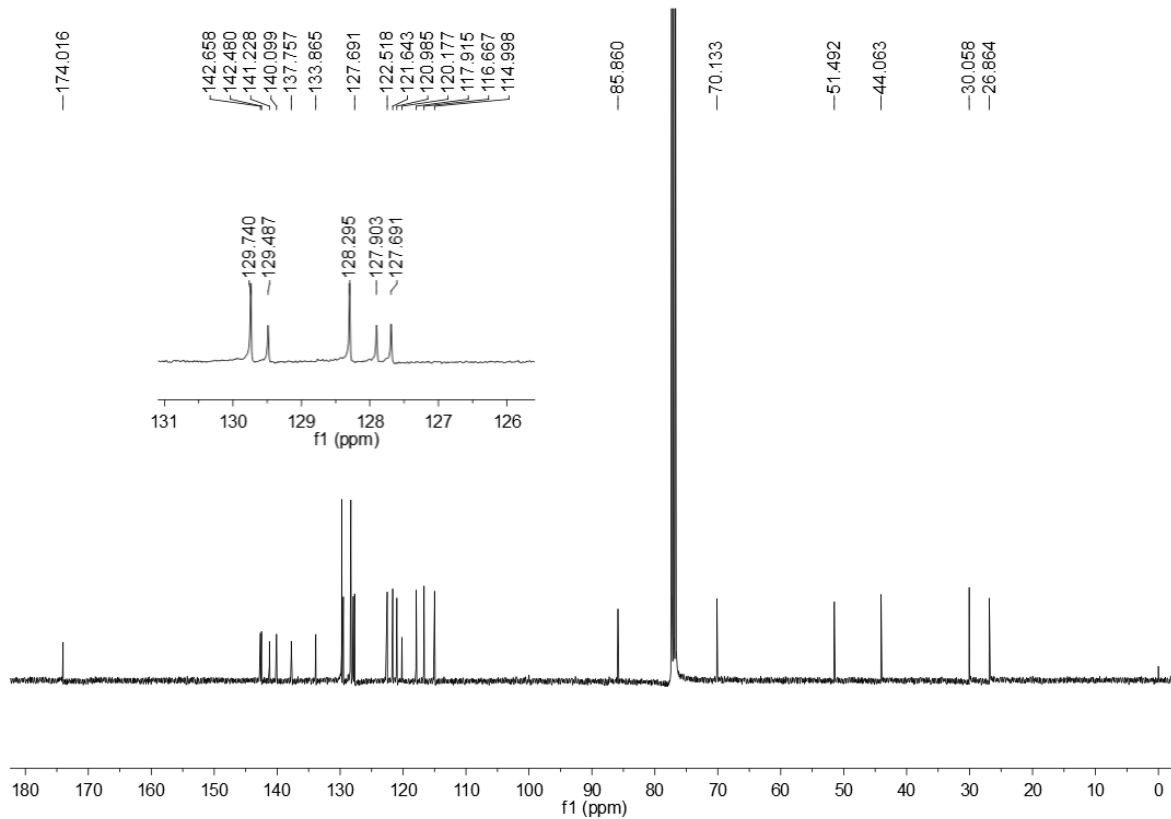
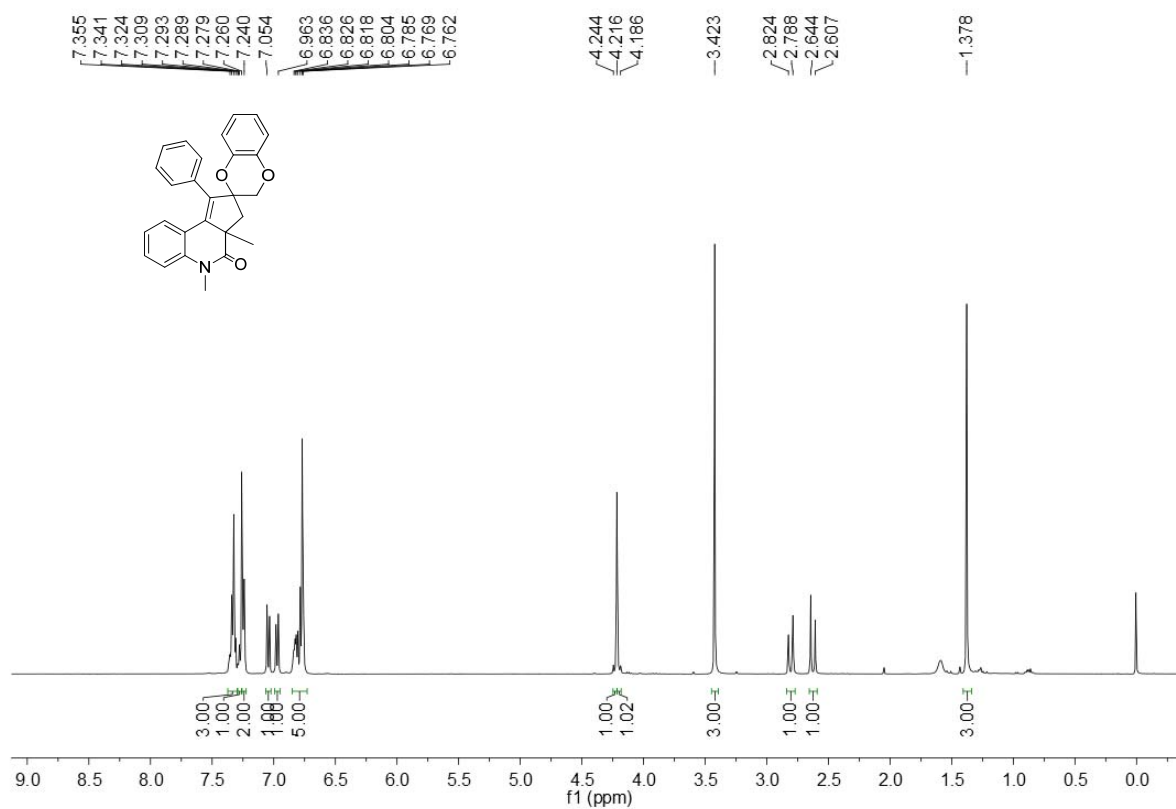
¹³C NMR Spectrum of Compound 3v

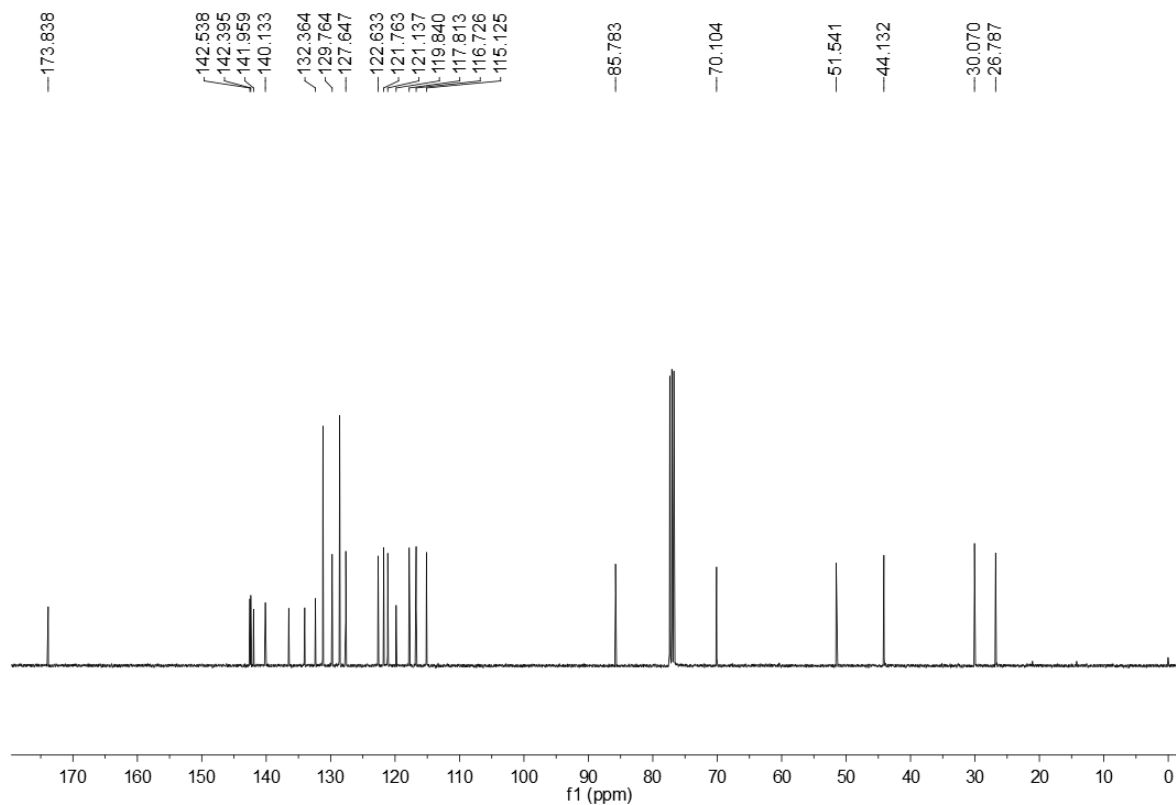
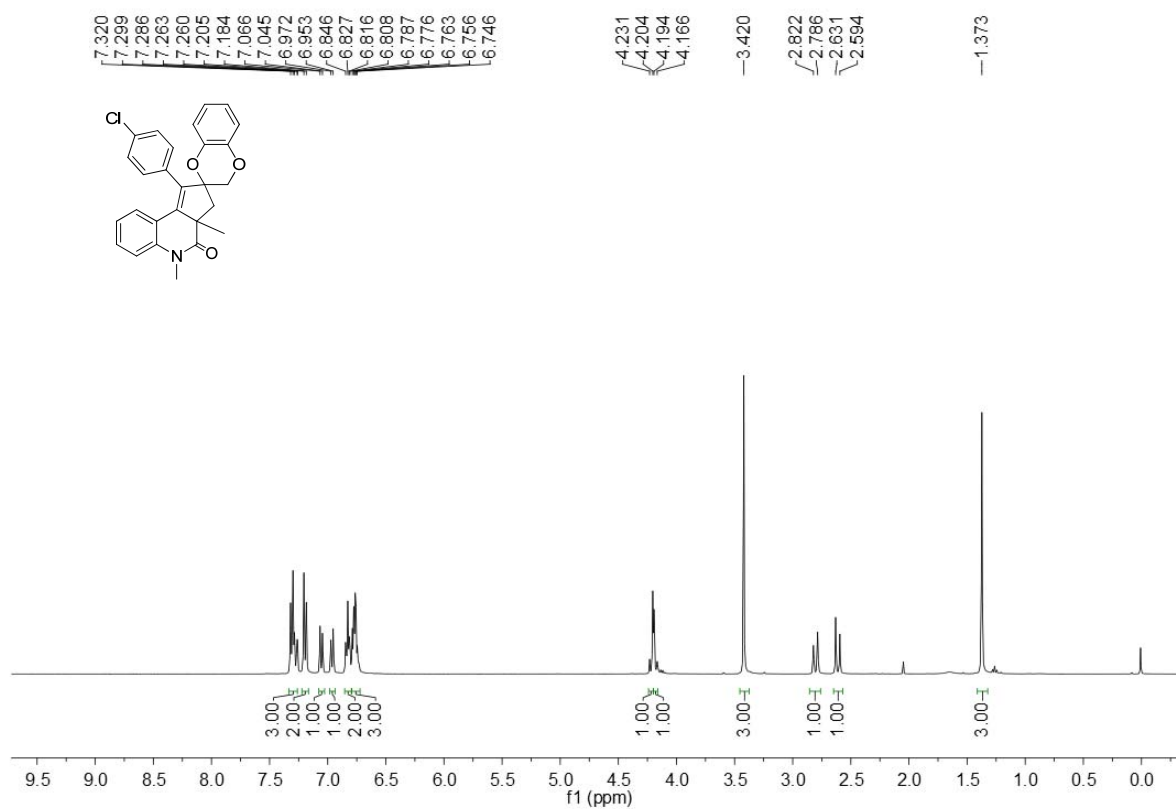


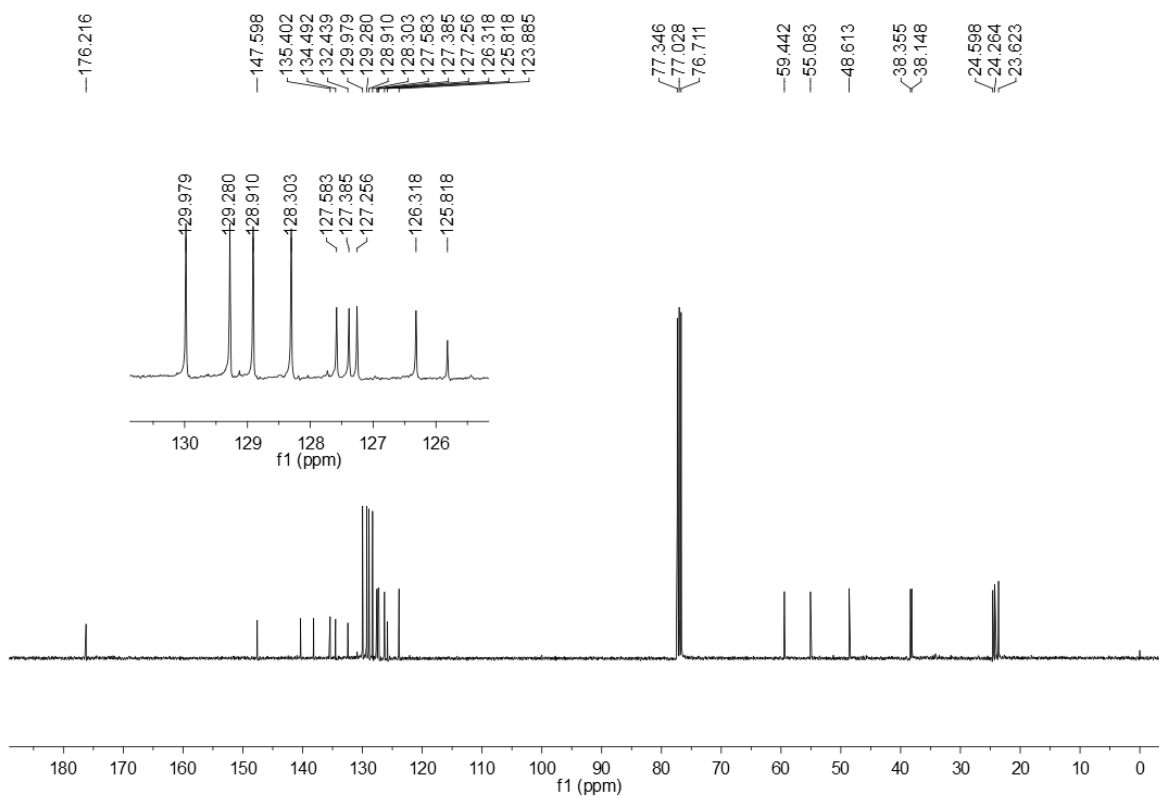
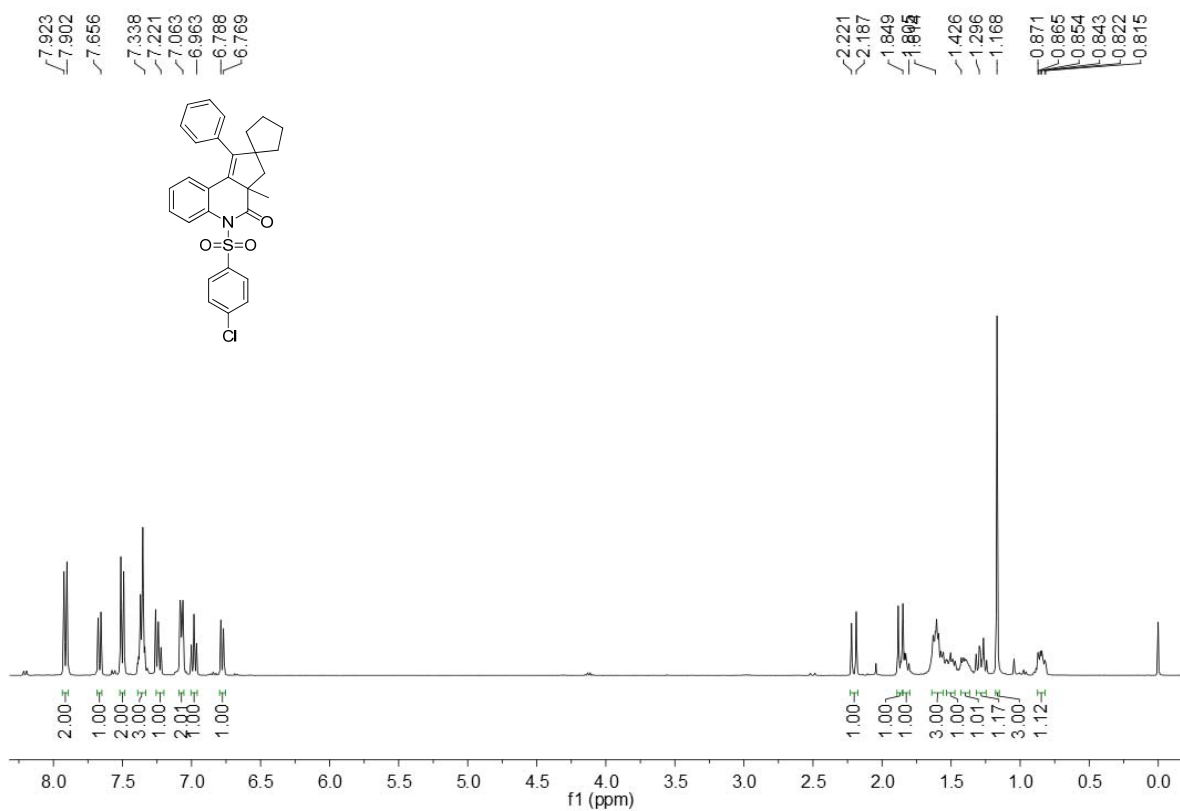


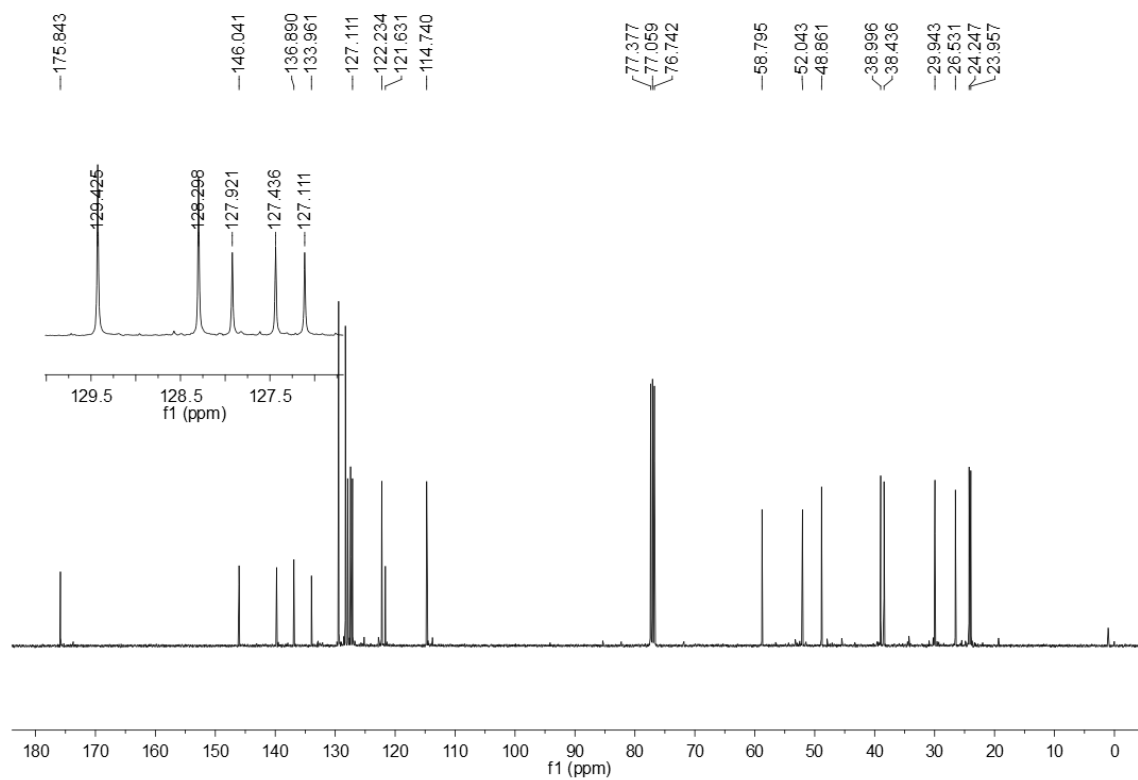
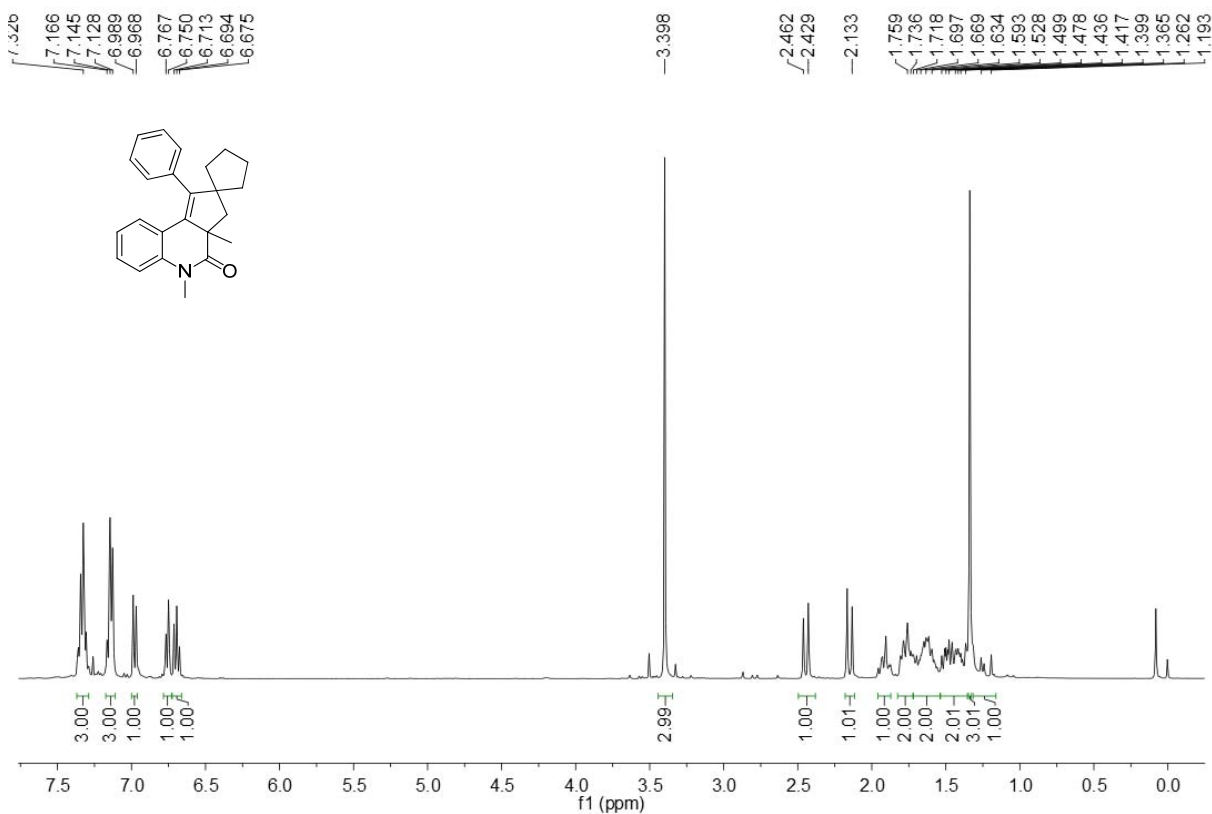


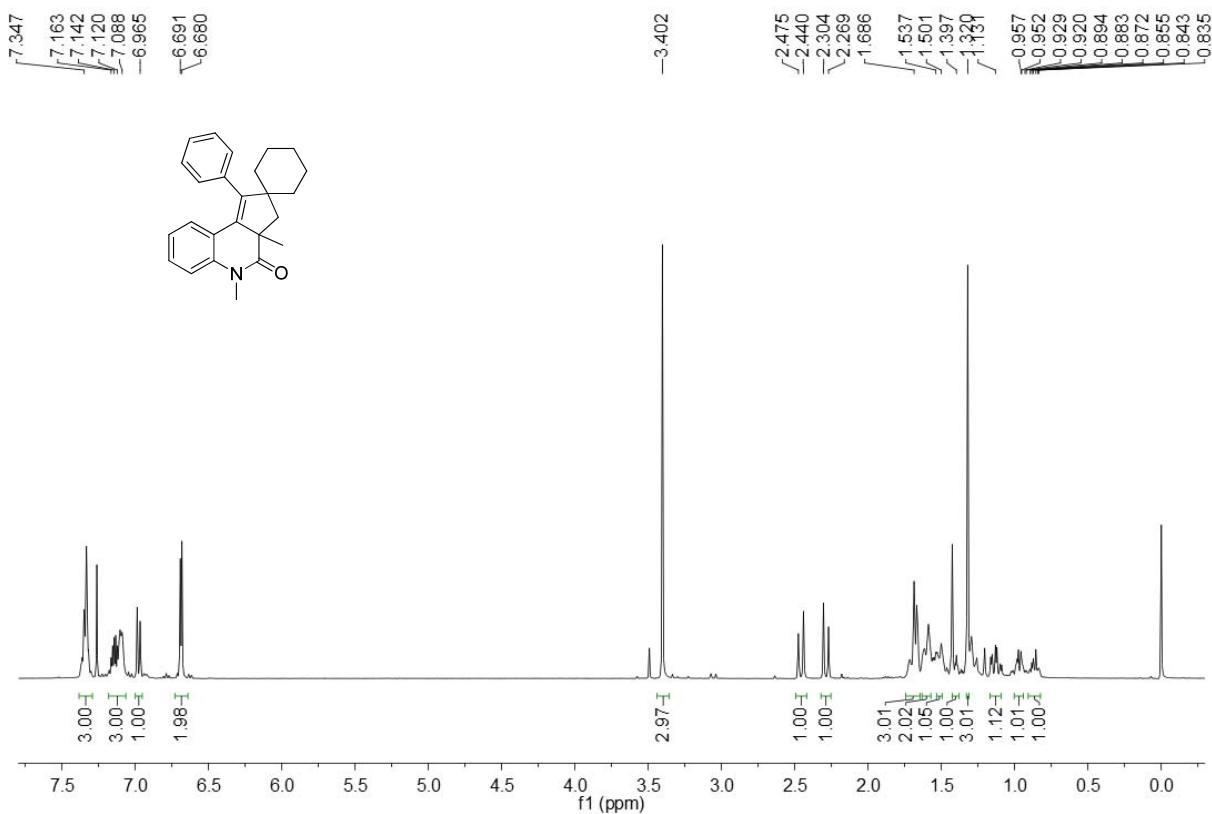




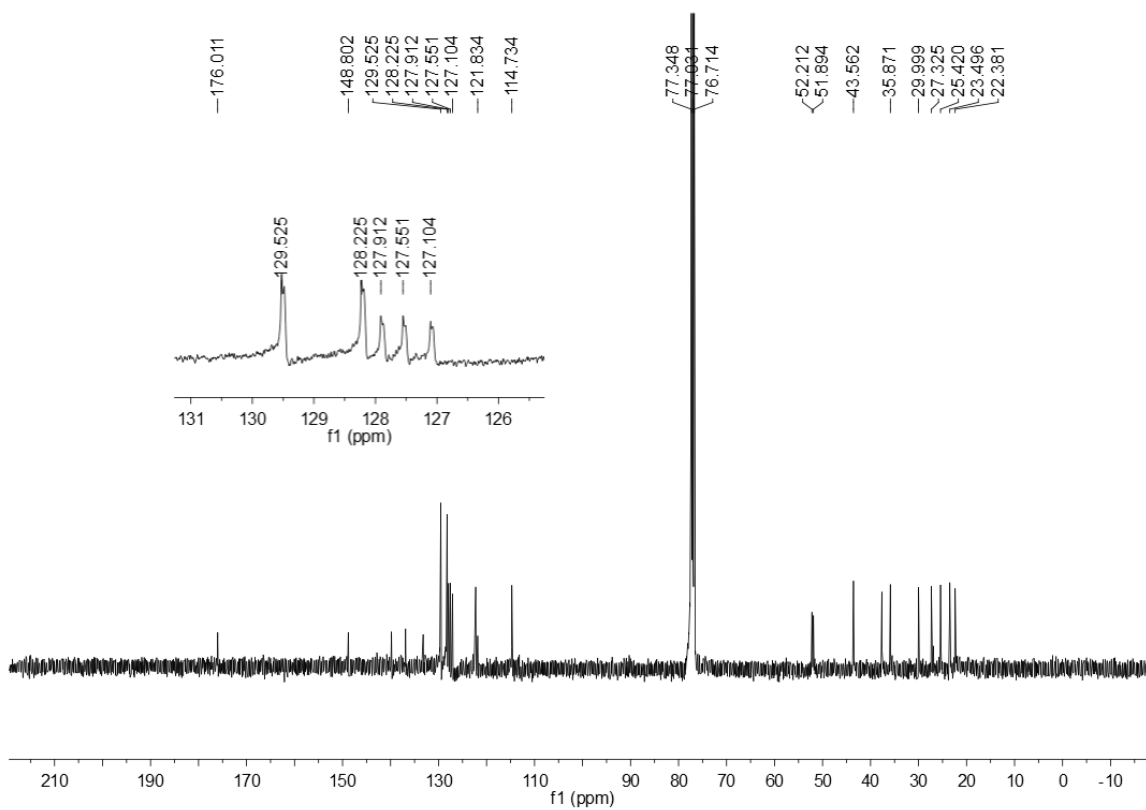




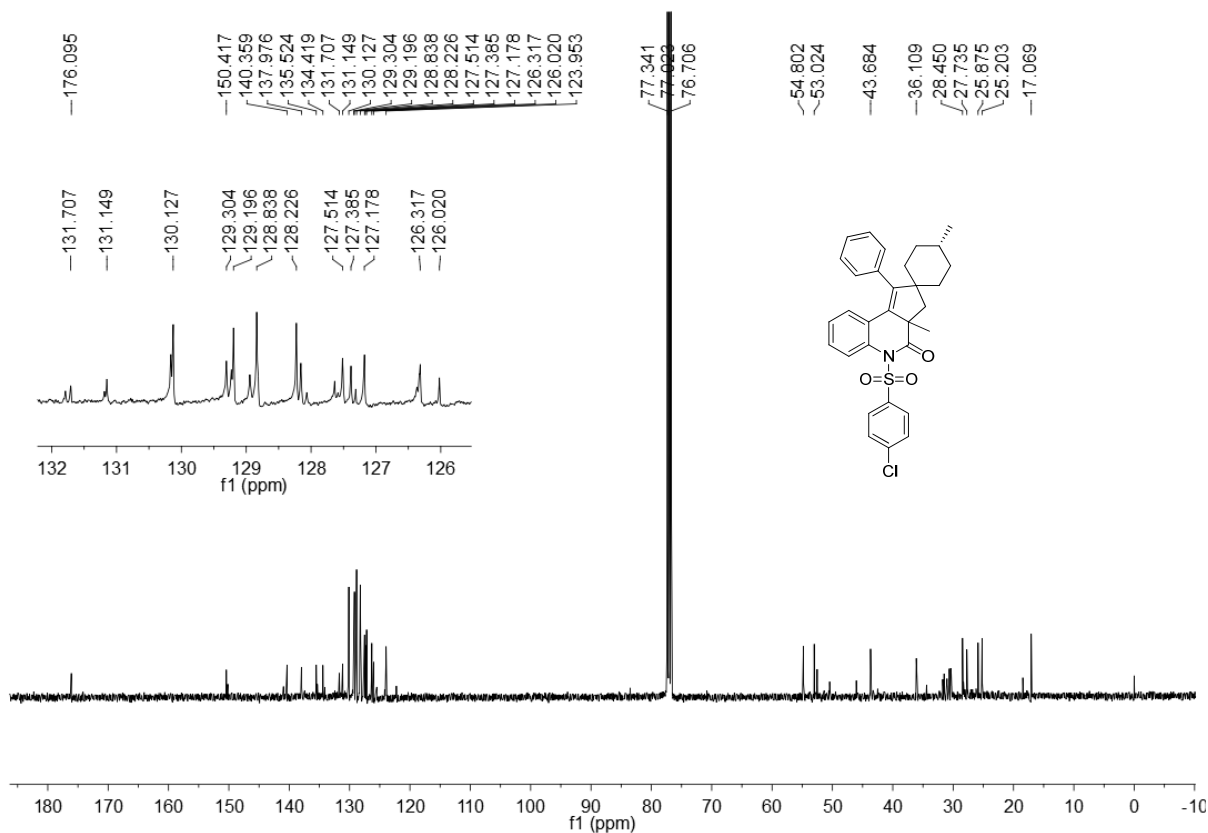
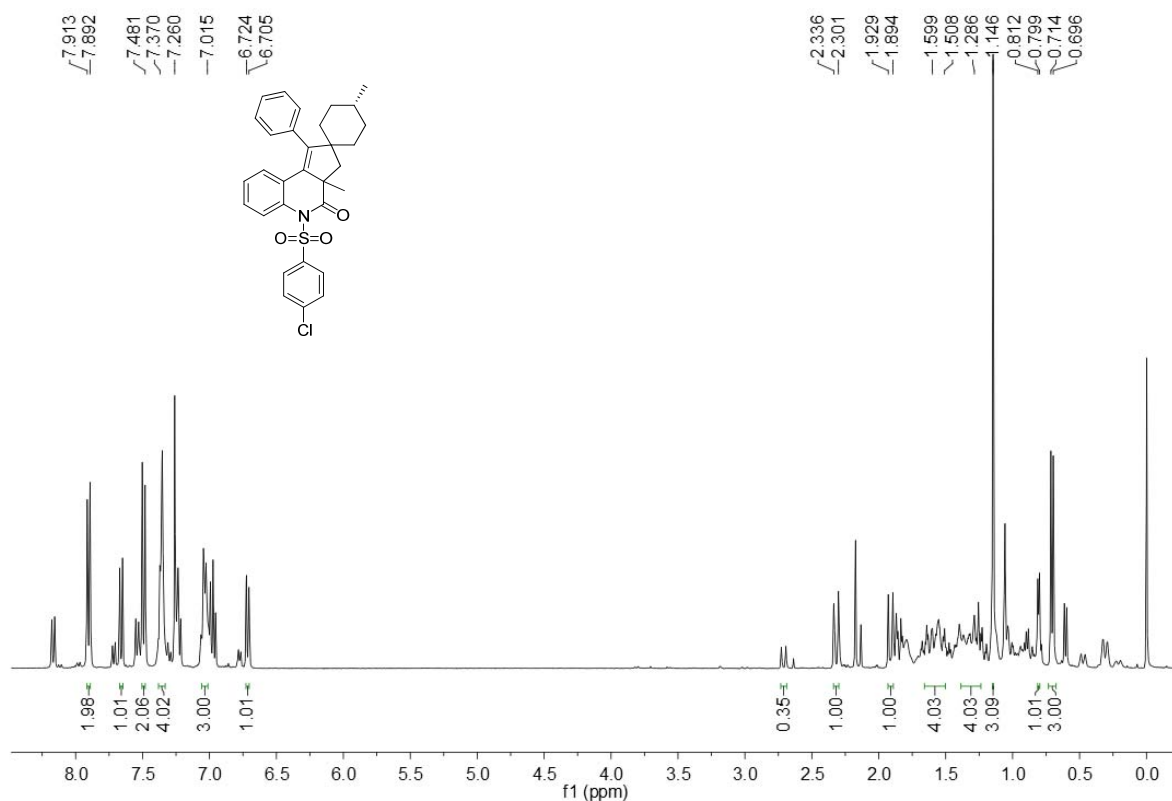


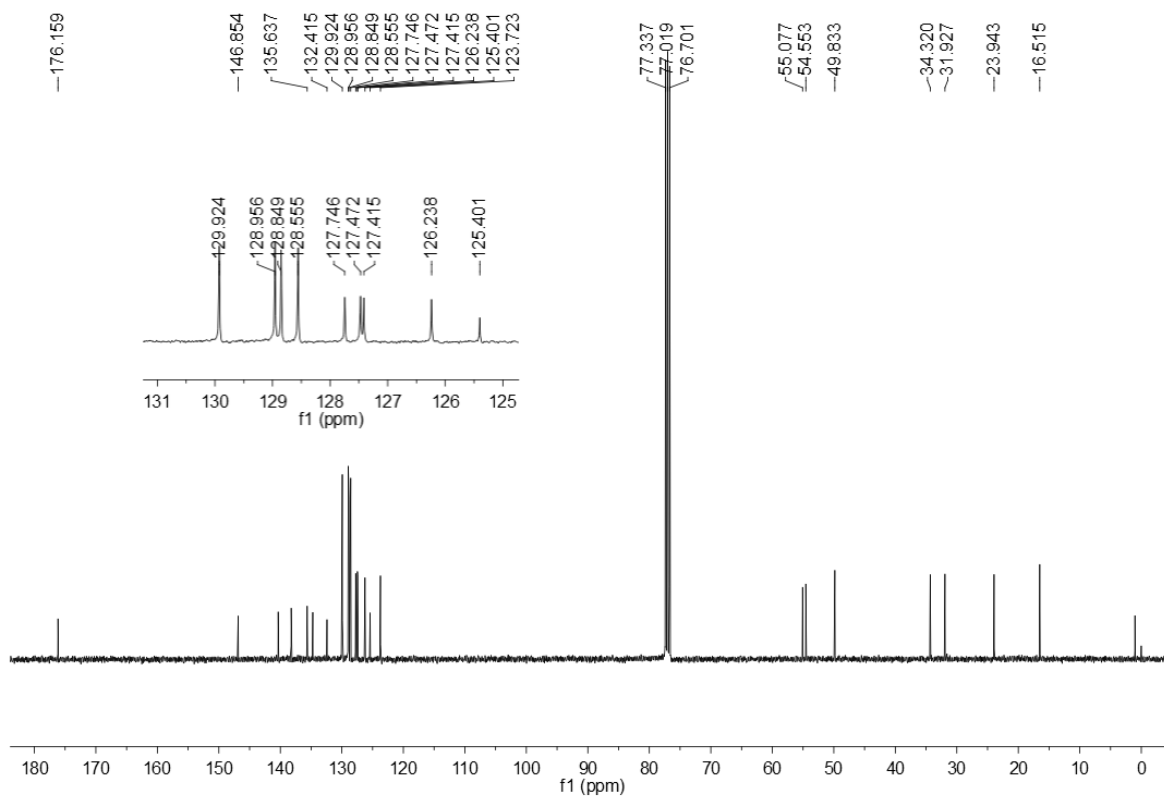
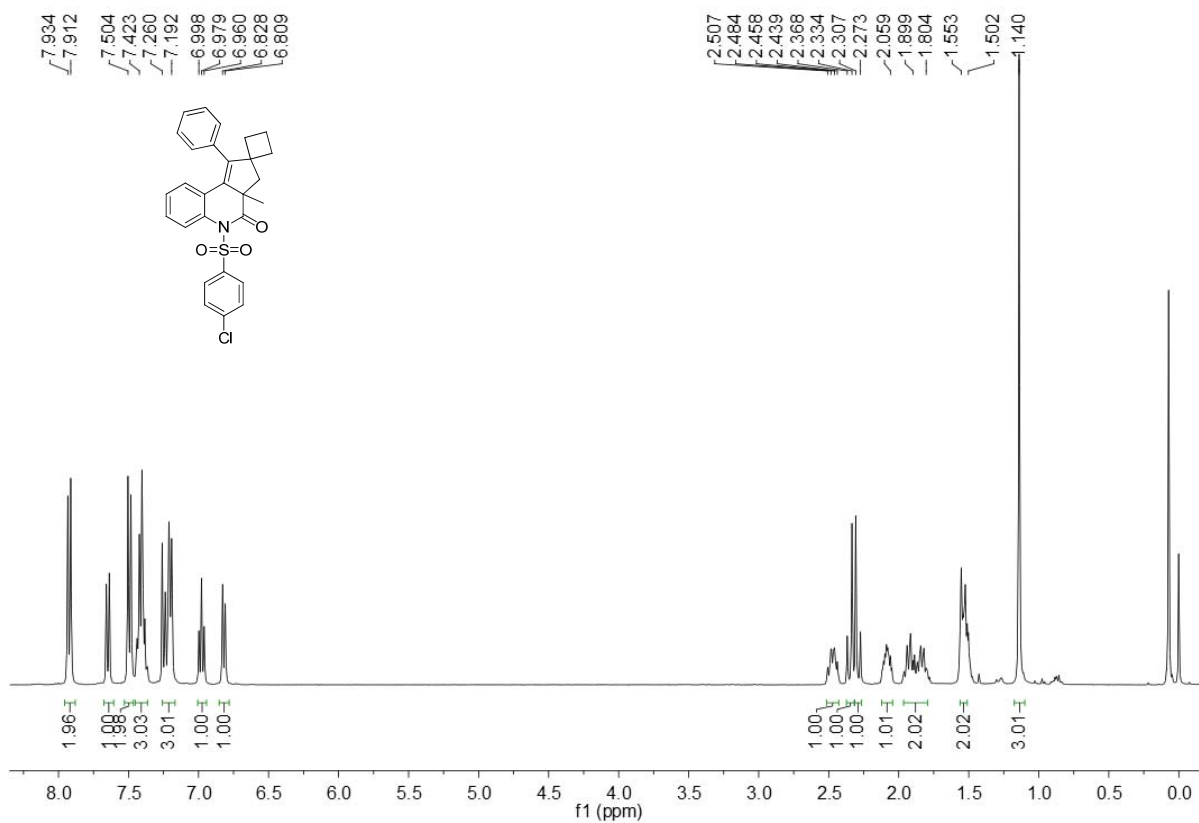


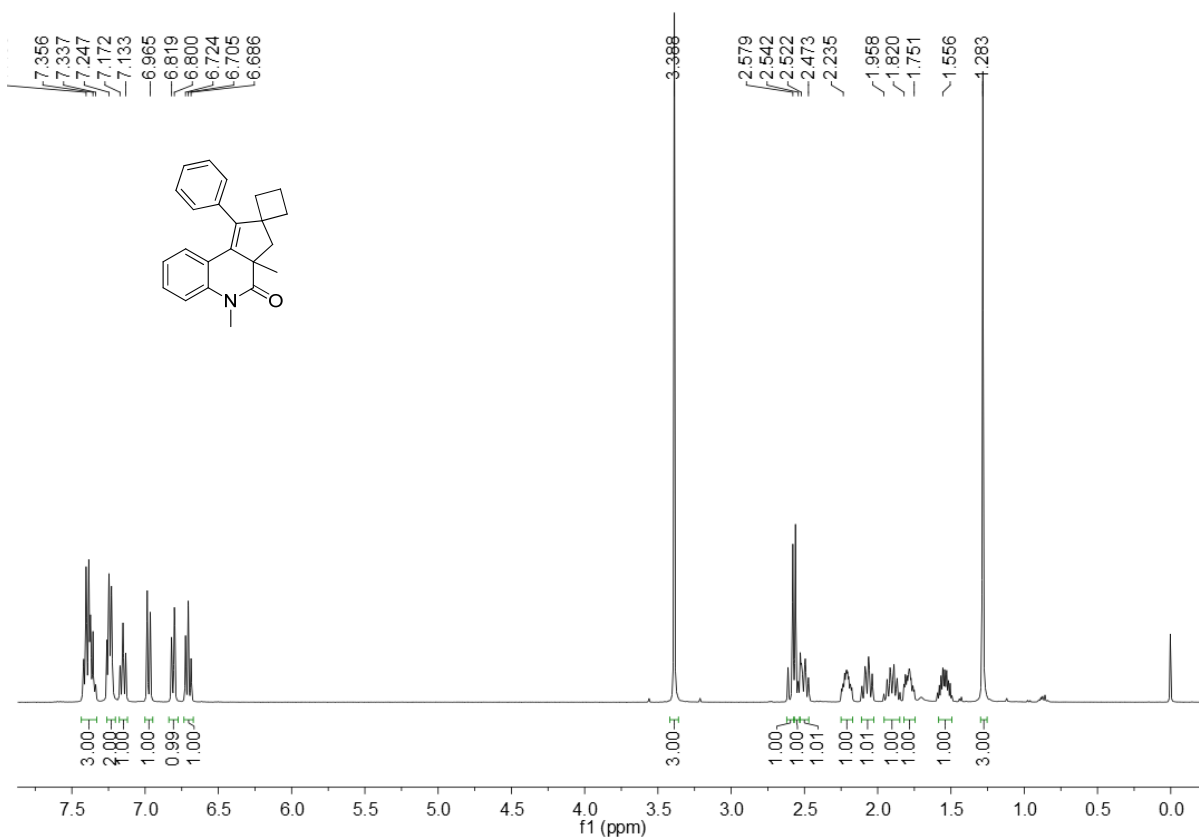
¹H NMR Spectrum of Compound 5d



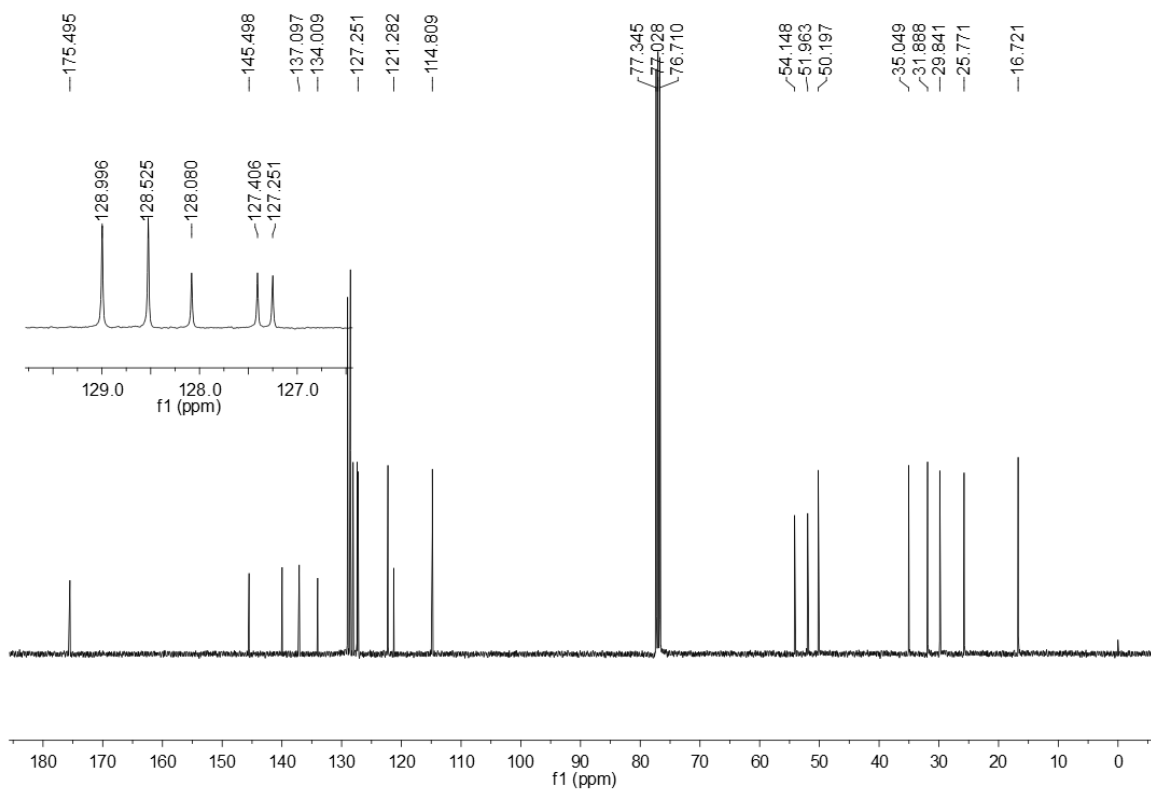
¹³C NMR Spectrum of Compound 5d



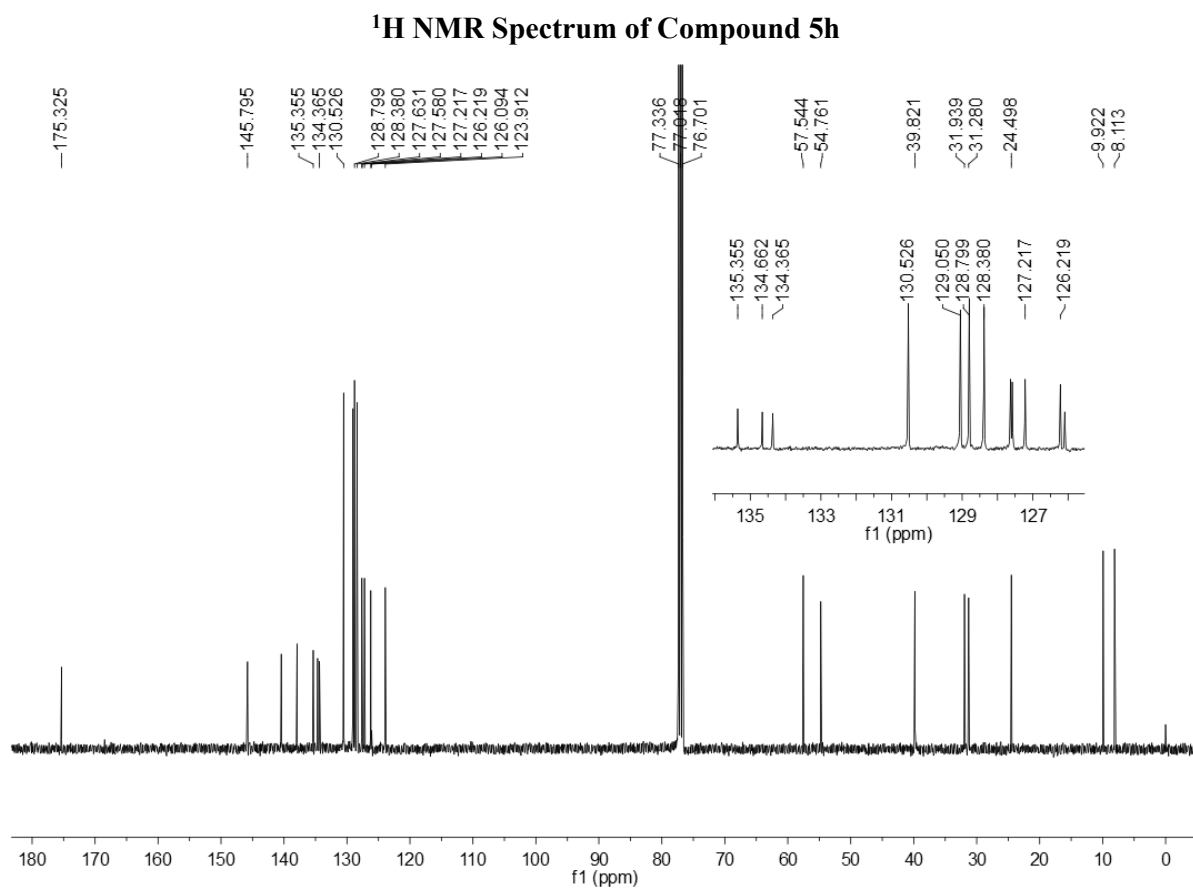
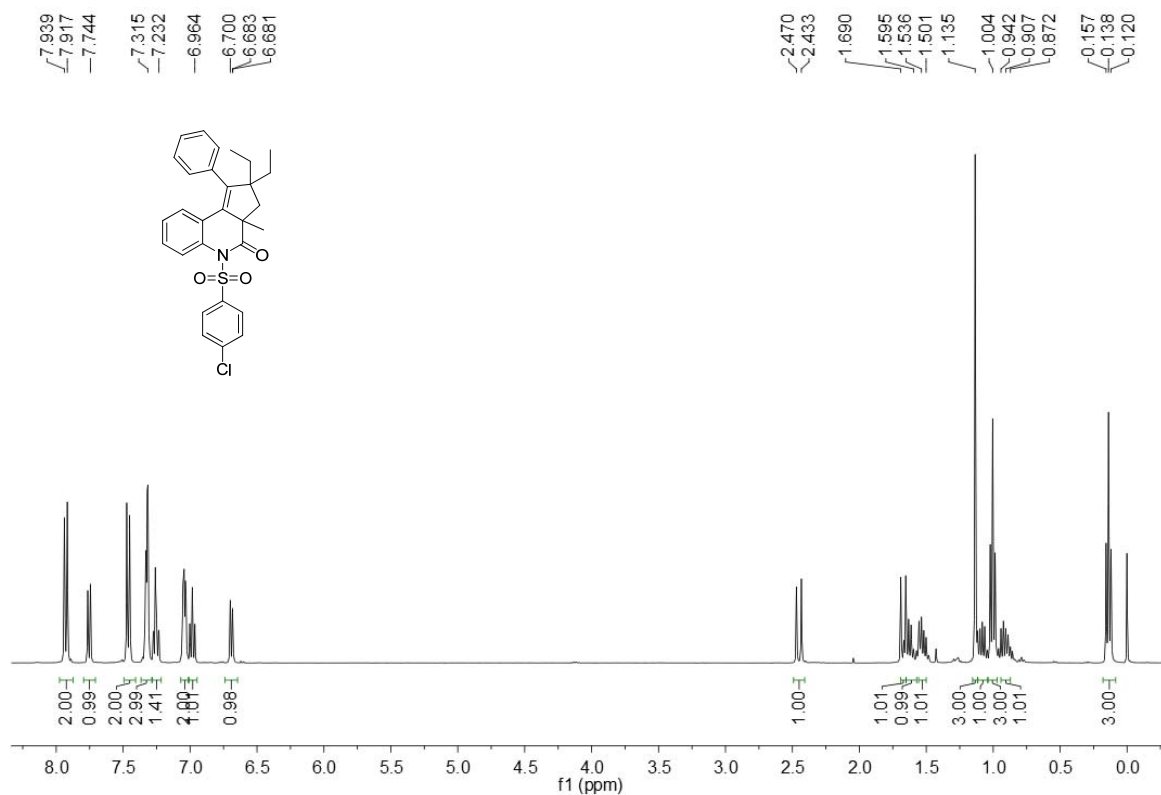


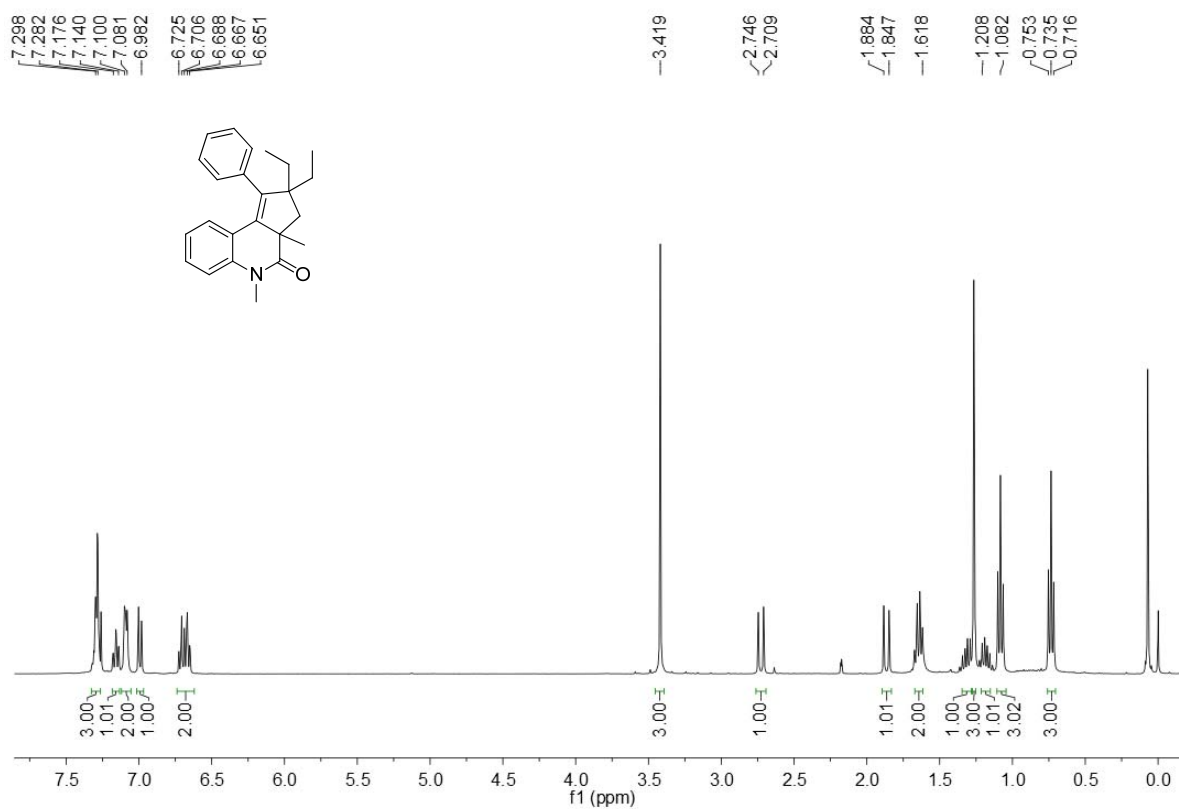


¹H NMR Spectrum of Compound 5g

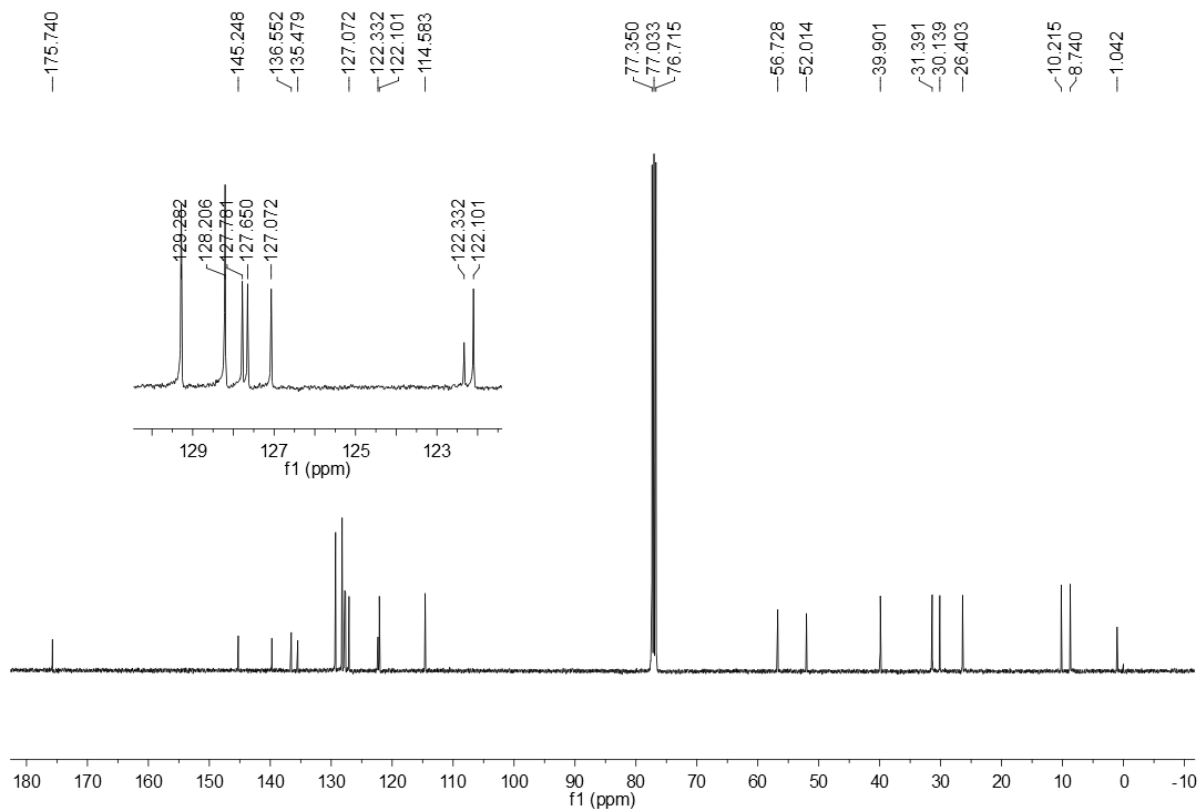


¹³C NMR Spectrum of Compound 5g

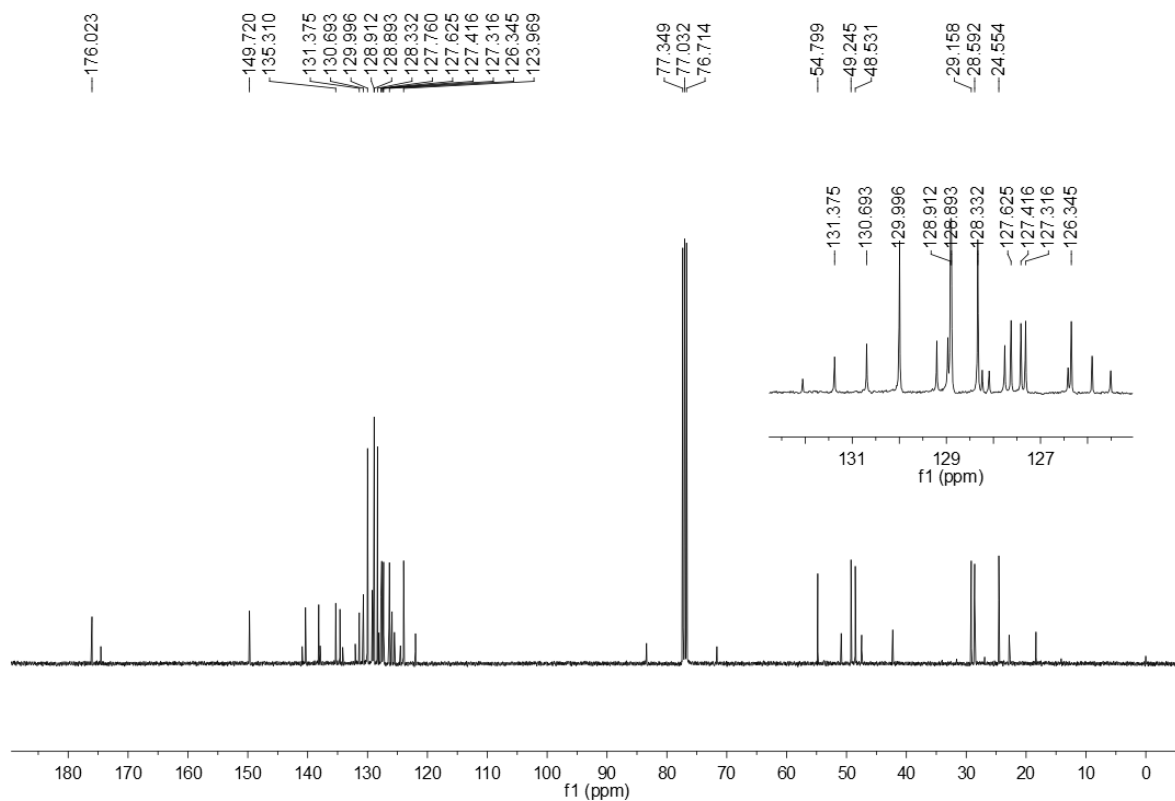
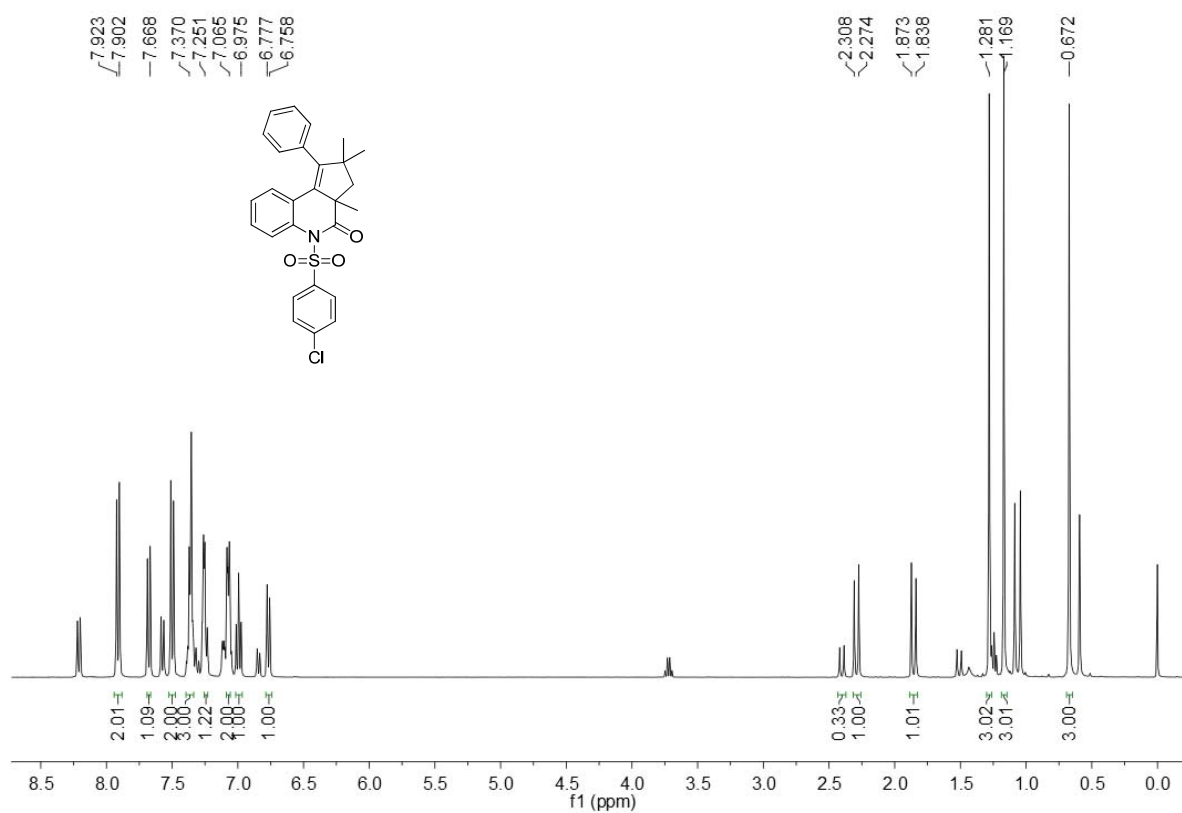


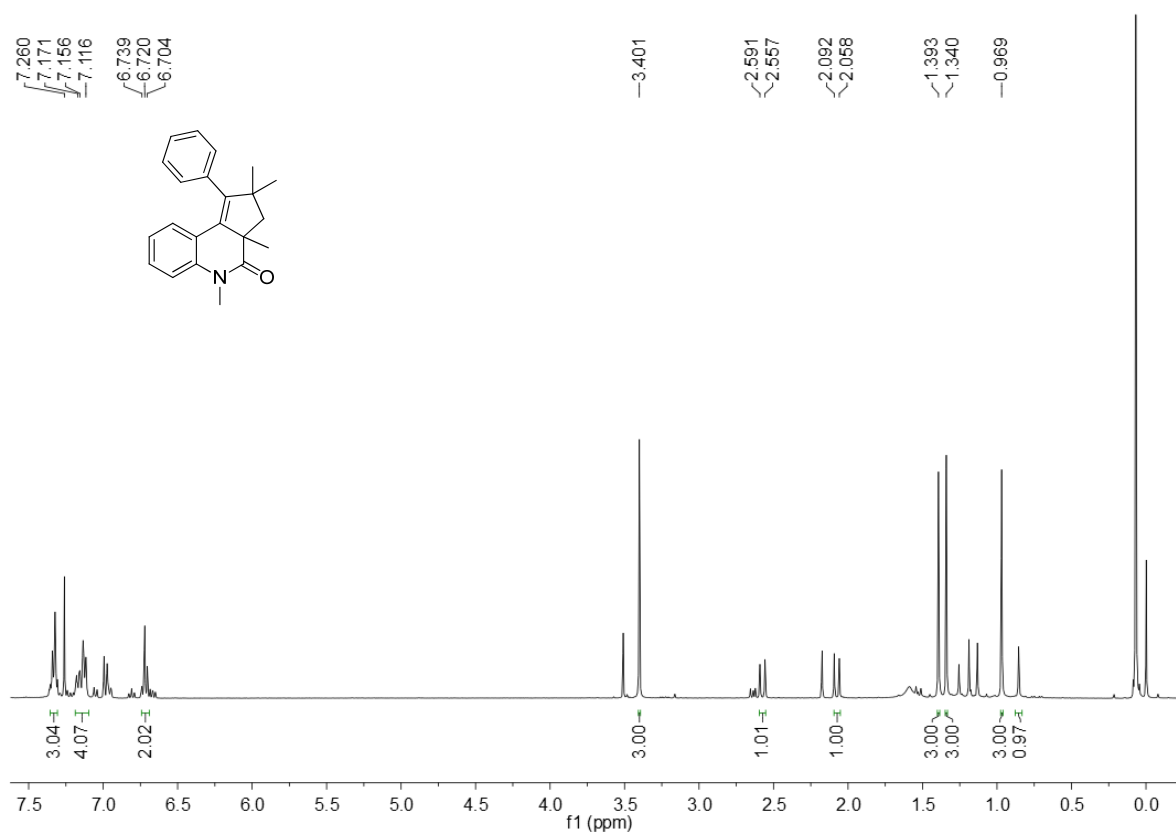


¹H NMR Spectrum of Compound 5i

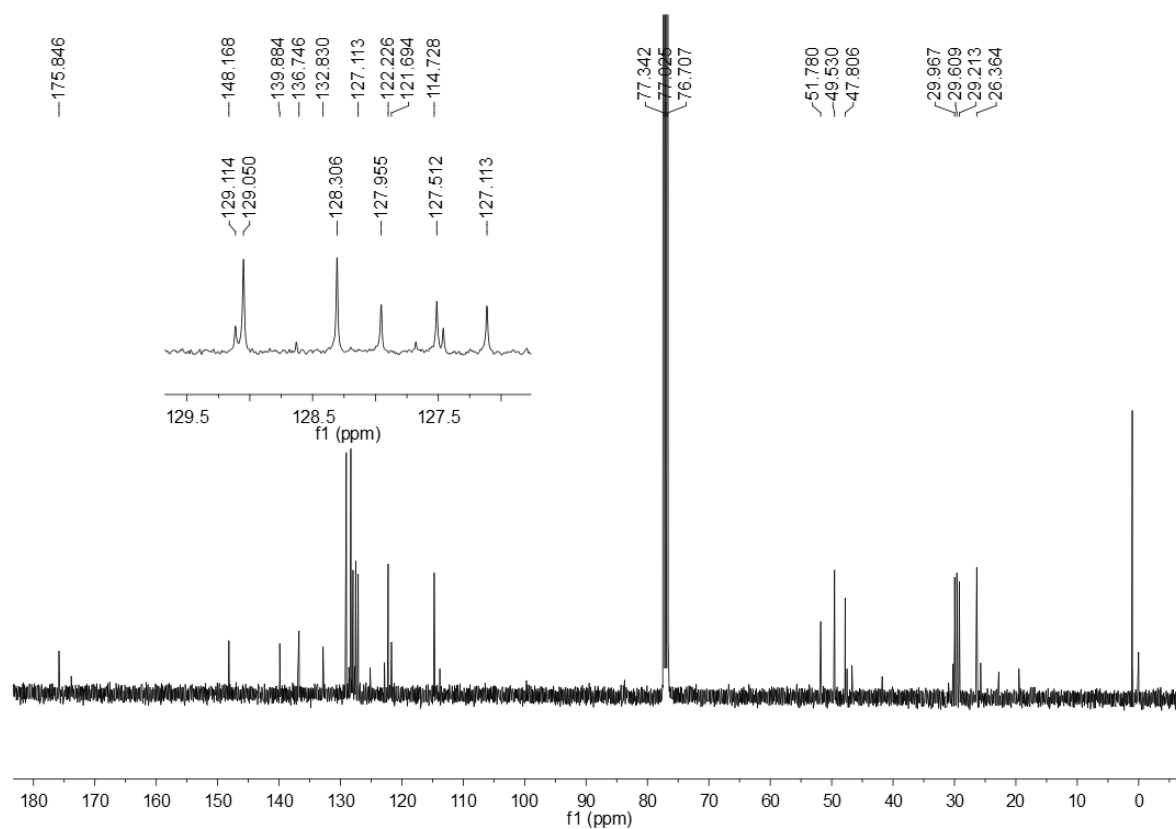


¹³C NMR Spectrum of Compound 5i





¹H NMR Spectrum of Compound 5k



¹³C NMR Spectrum of Compound 5k

