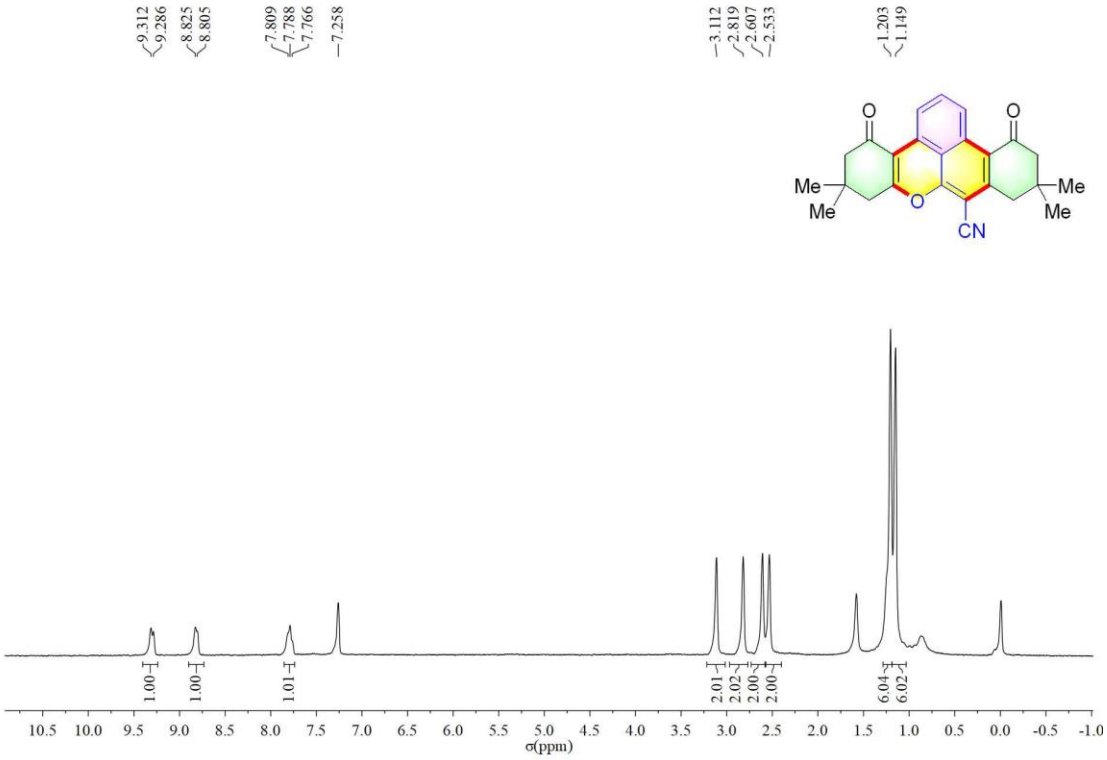
Supporting Information

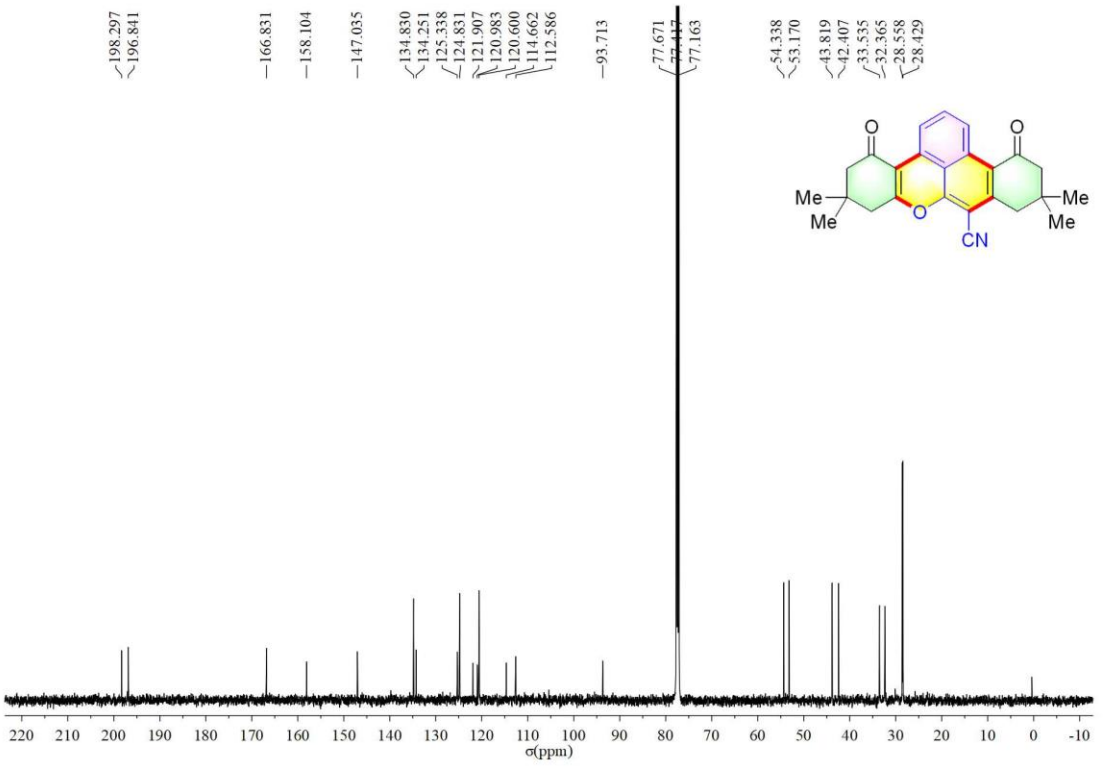
Rh(III)-catalyzed Cascade C-H Activation/Annulation of Cyclic 2-Diazo-1,3-diketones with Benzoylacetonitriles to Polycyclic Benzo[*de*]chromenes

Lili Yuan,[a,b,c] Lanlan Zhang,[c] Youpeng Zuo,[c] Guang Han,[c] Xinwei He,*[c] and Yongjia Shang*[c]

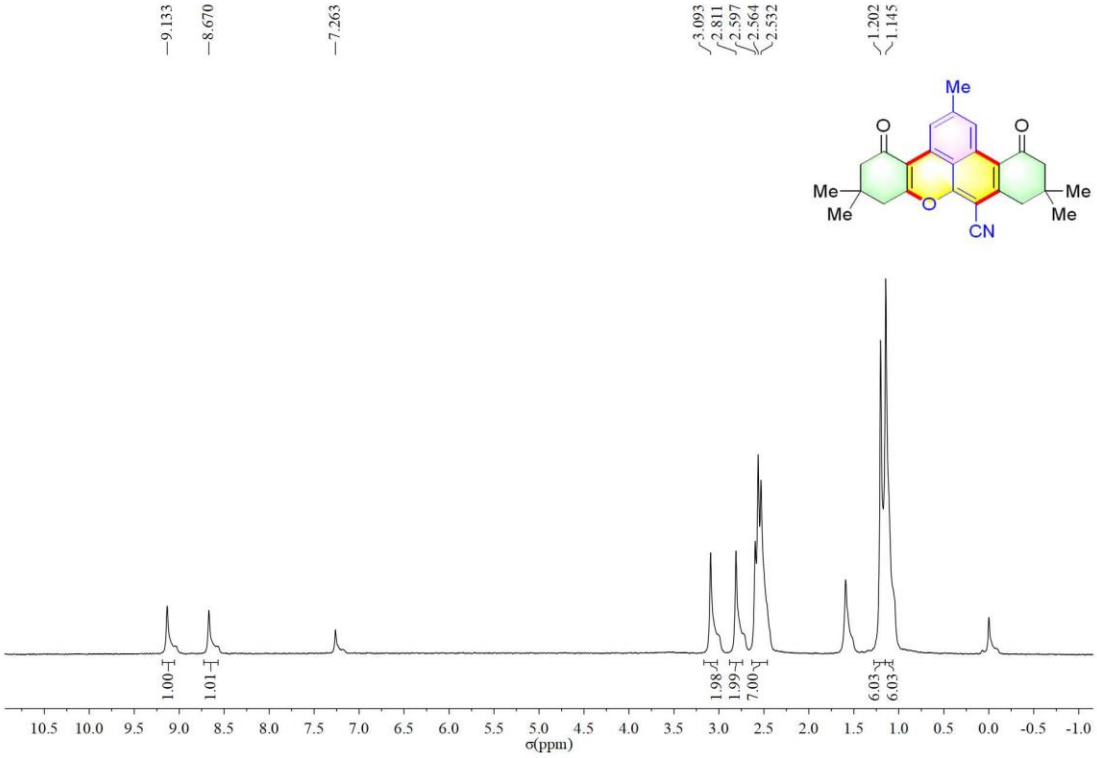
[a]*School of Chemistry and Chemical Engineering, Hefei University of Technology, Hefei 230009, P.R. China*
[b]*Department of Chemical and Chemical Engineering, Hefei Normal University, Hefei, 230601, P. R. China*
[c]*Key Laboratory of Functional Molecular Solids, Ministry of Education, Anhui Laboratory of Molecule-Based Materials (State Key Laboratory Cultivation Base), College of Chemistry and Materials Science, Anhui Normal University, Wuhu 241002, P. R. China*

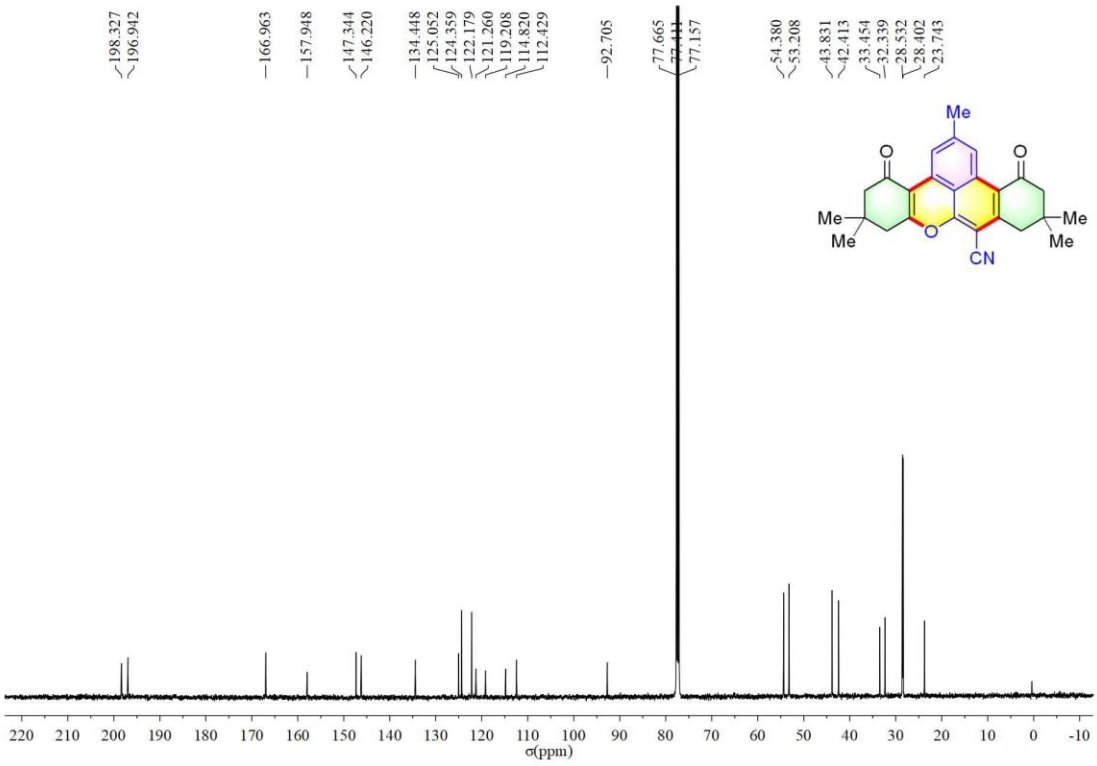
^{1}H NMR and ^{13}C NMR for compound **3a**



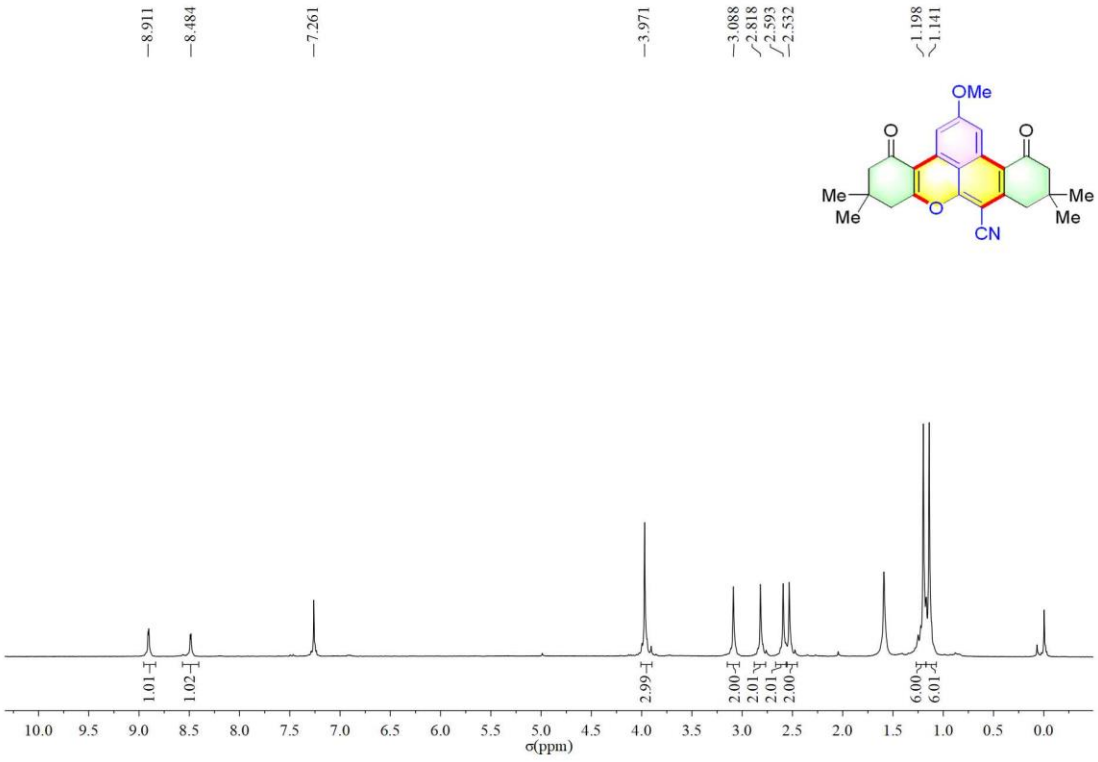


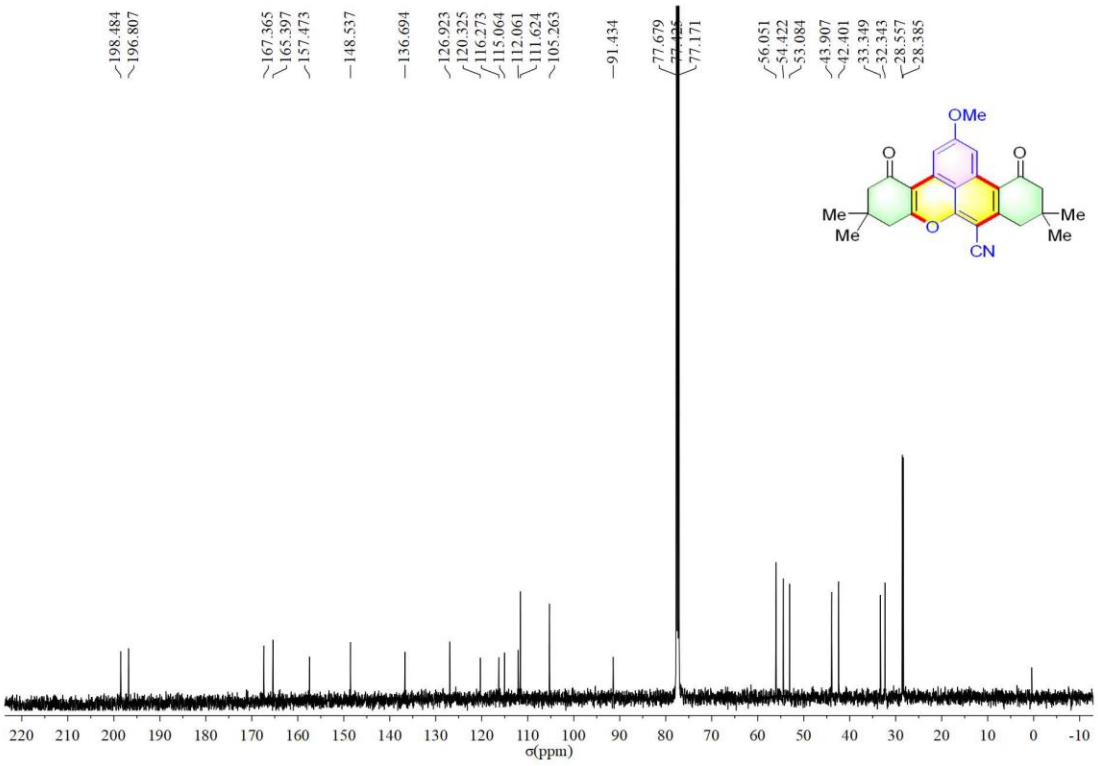
^{1}H NMR and ^{13}C NMR for compound **3b**



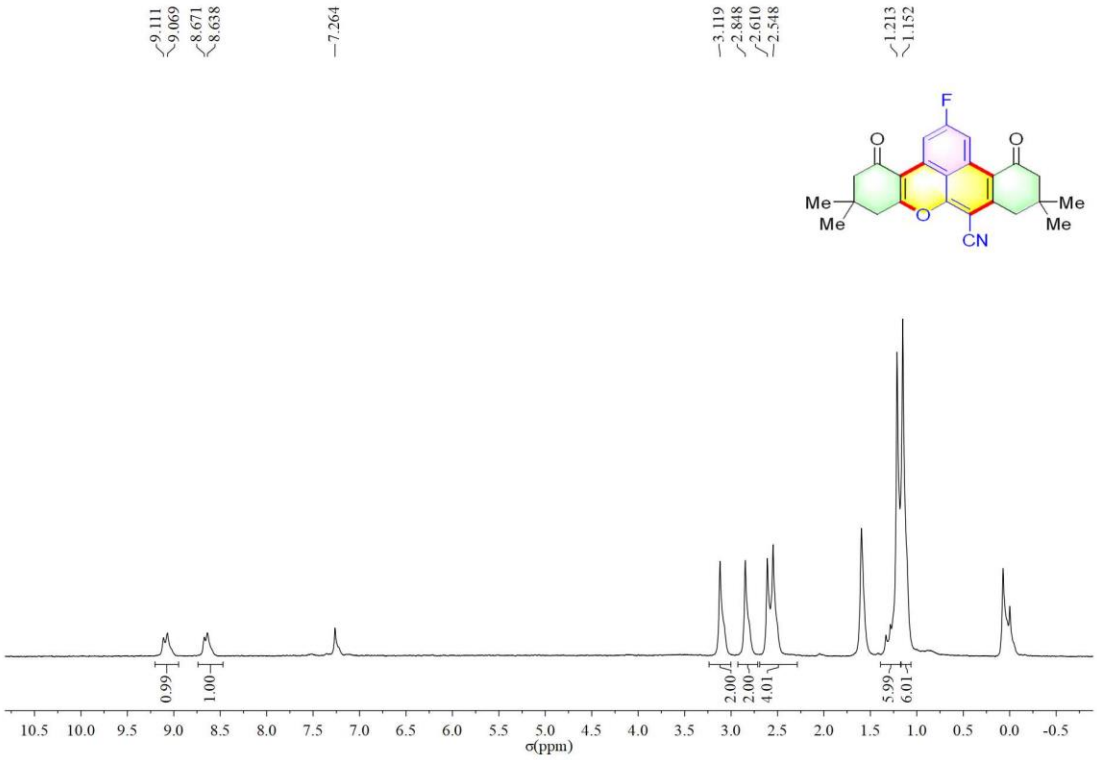


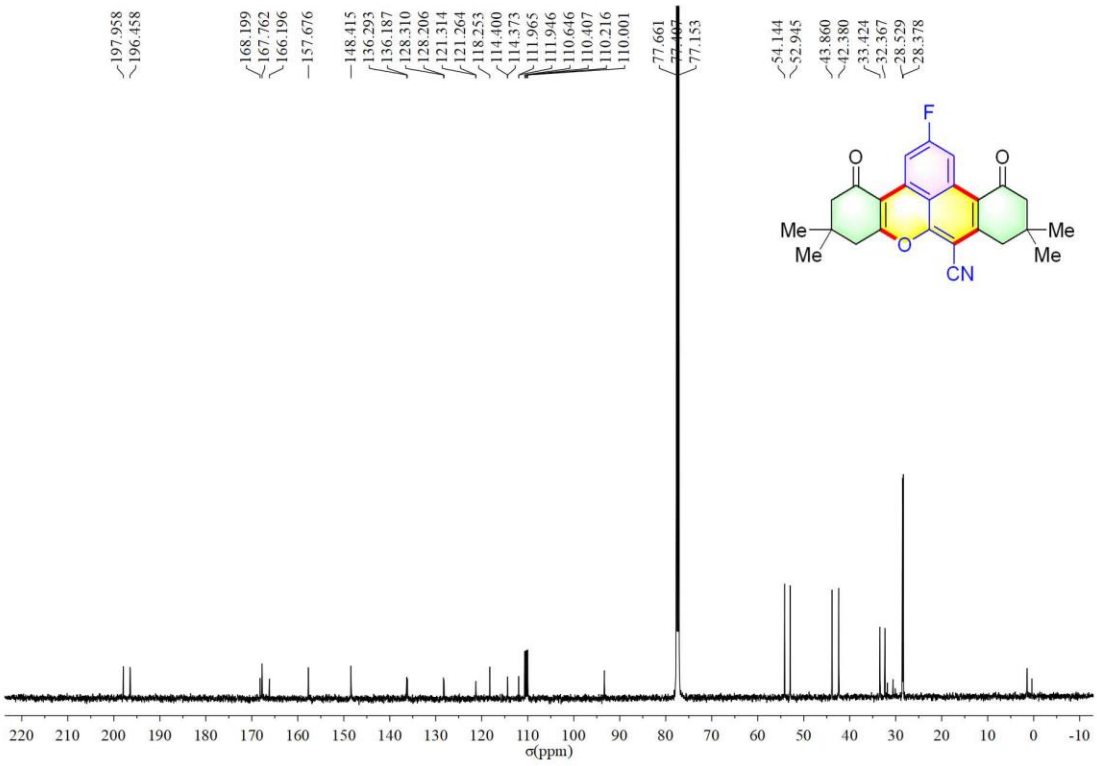
^{1}H NMR and ^{13}C NMR for compound **3c**



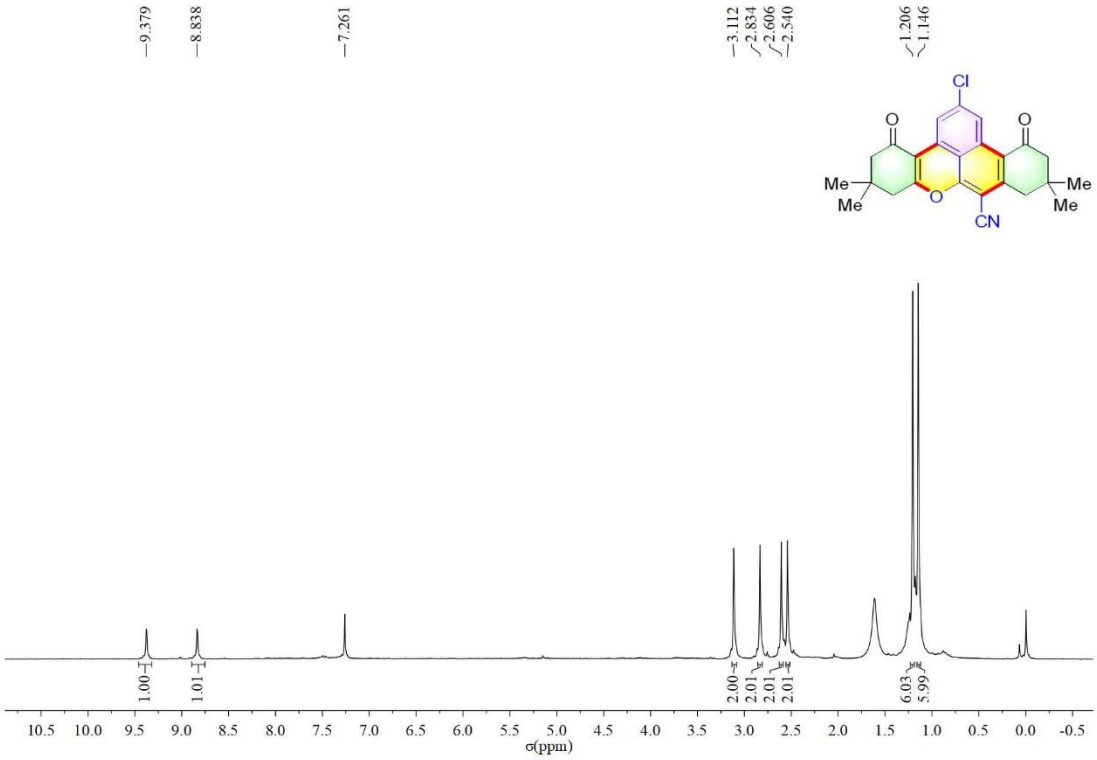


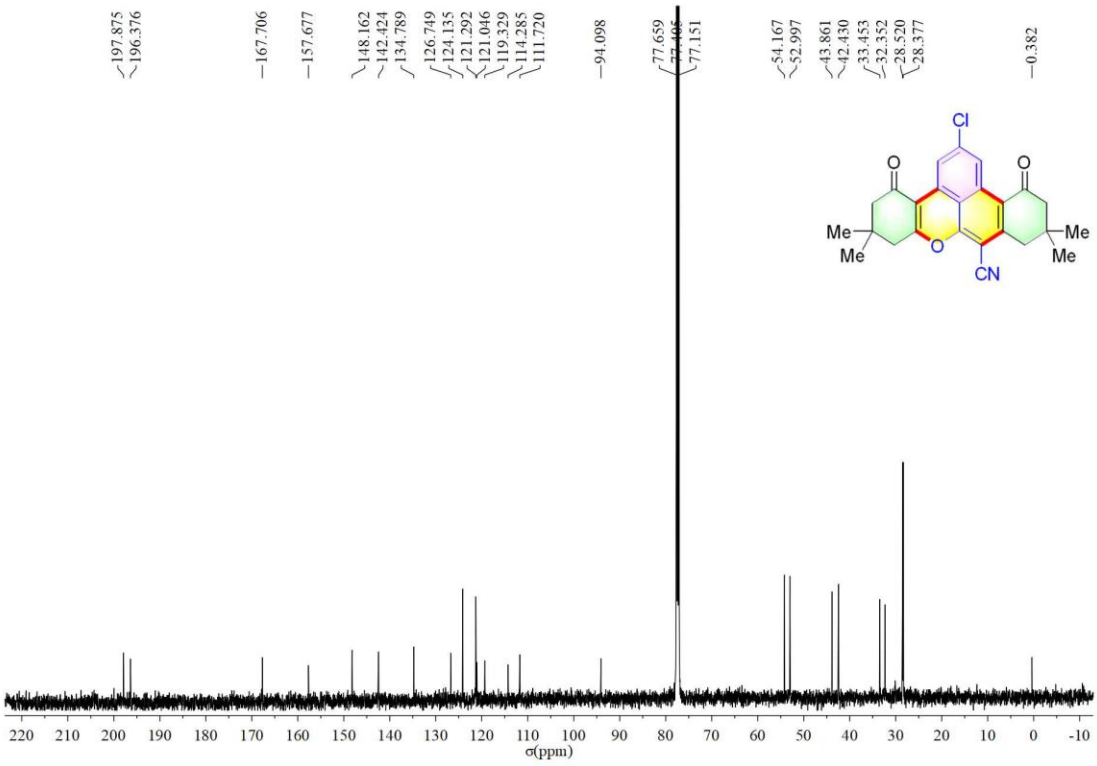
^{1}H NMR and ^{13}C NMR for compound **3d**



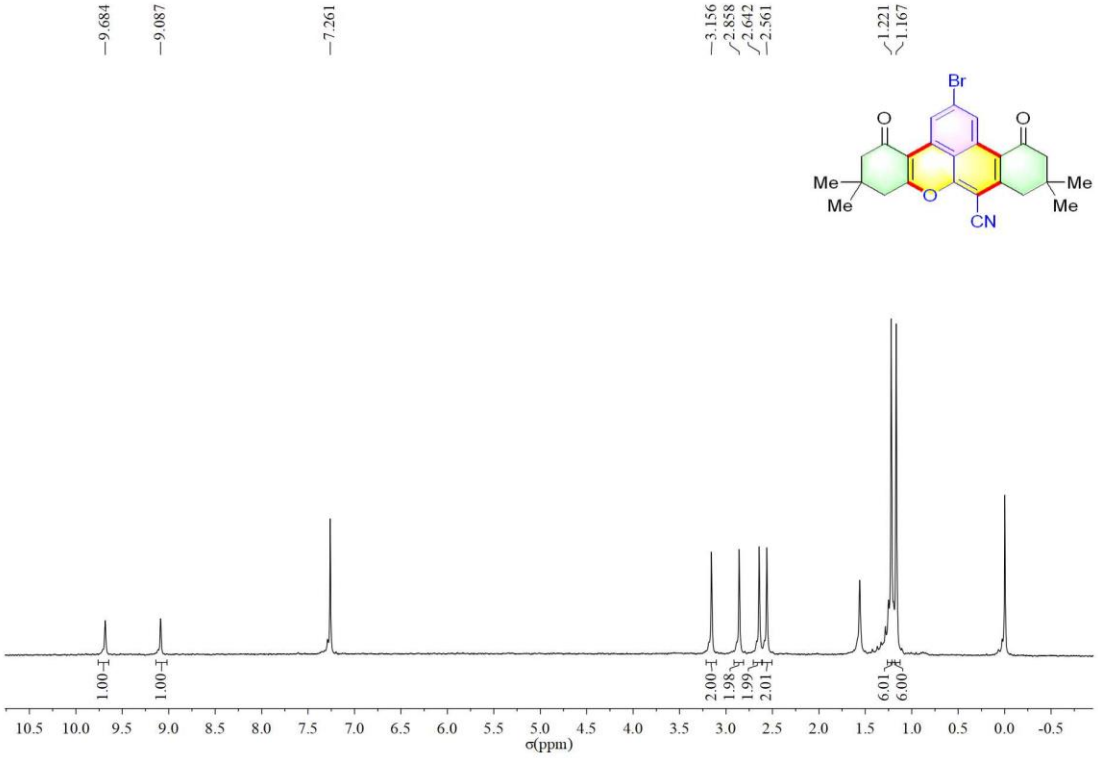


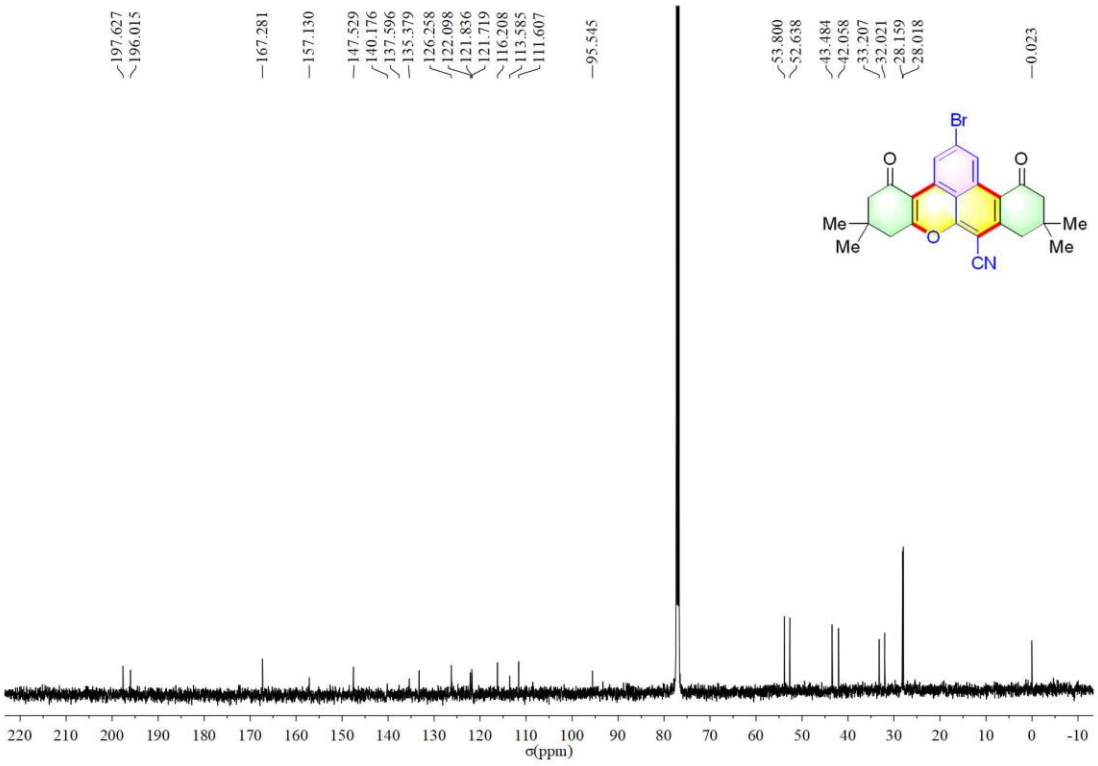
^{1}H NMR and ^{13}C NMR for compound **3e**



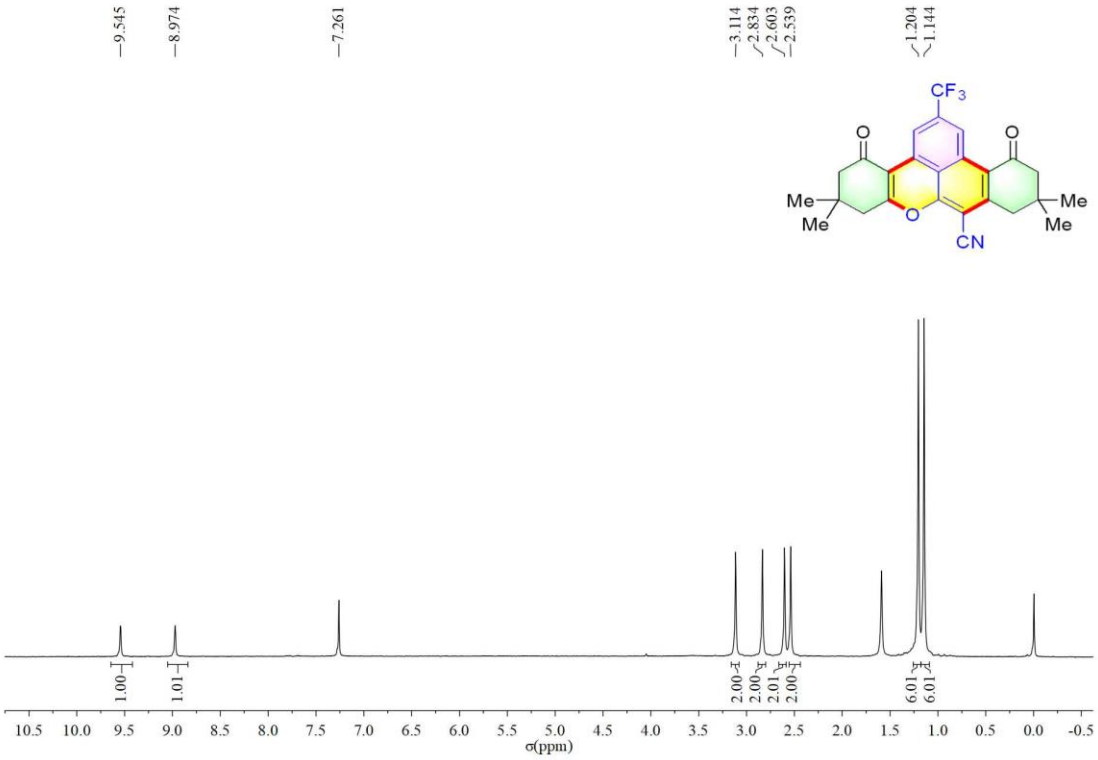


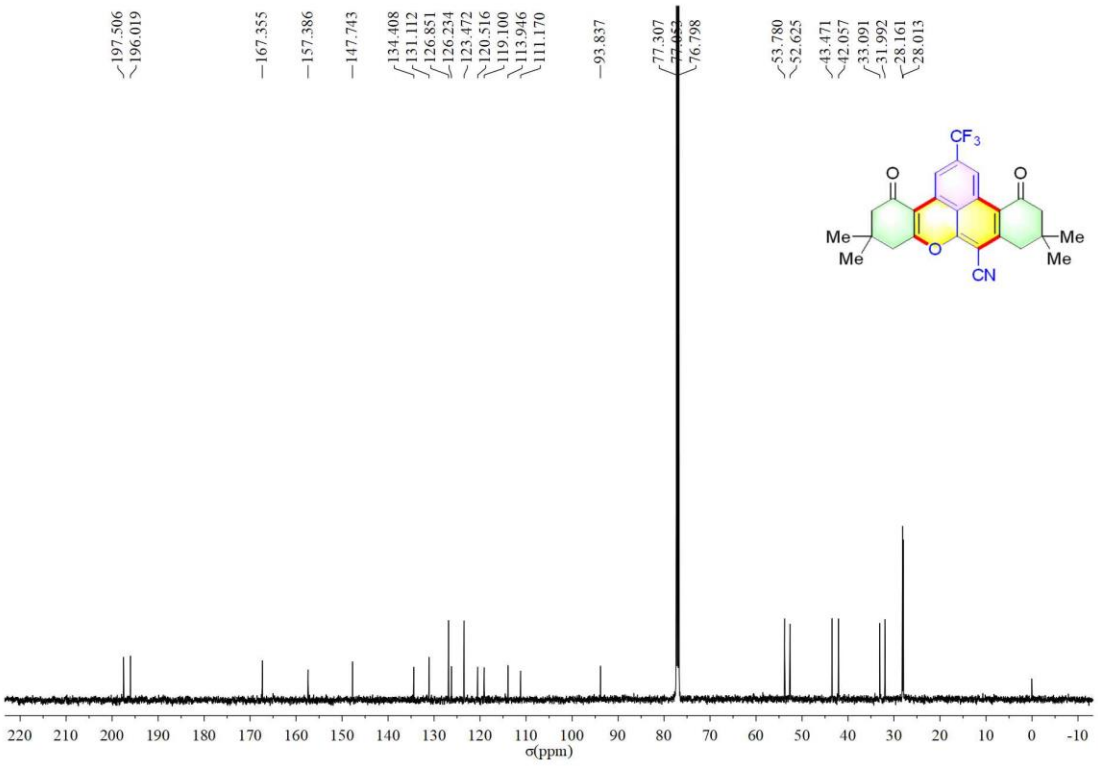
^{1}H NMR and ^{13}C NMR for compound **3f**



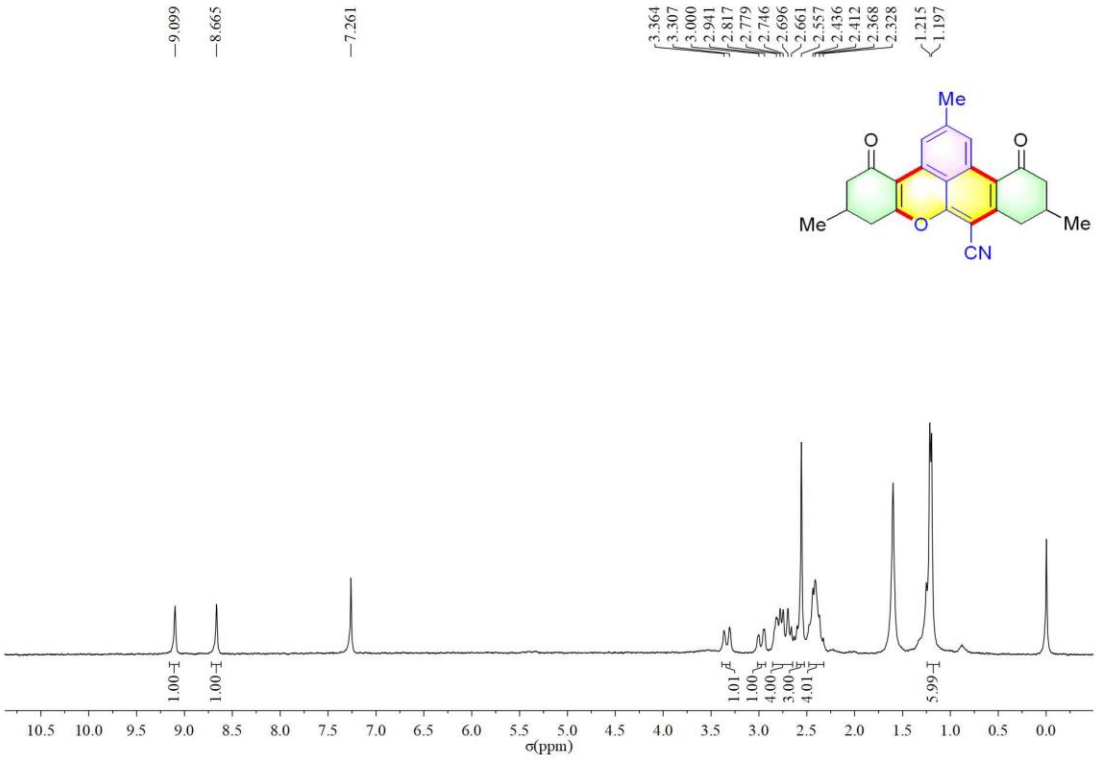


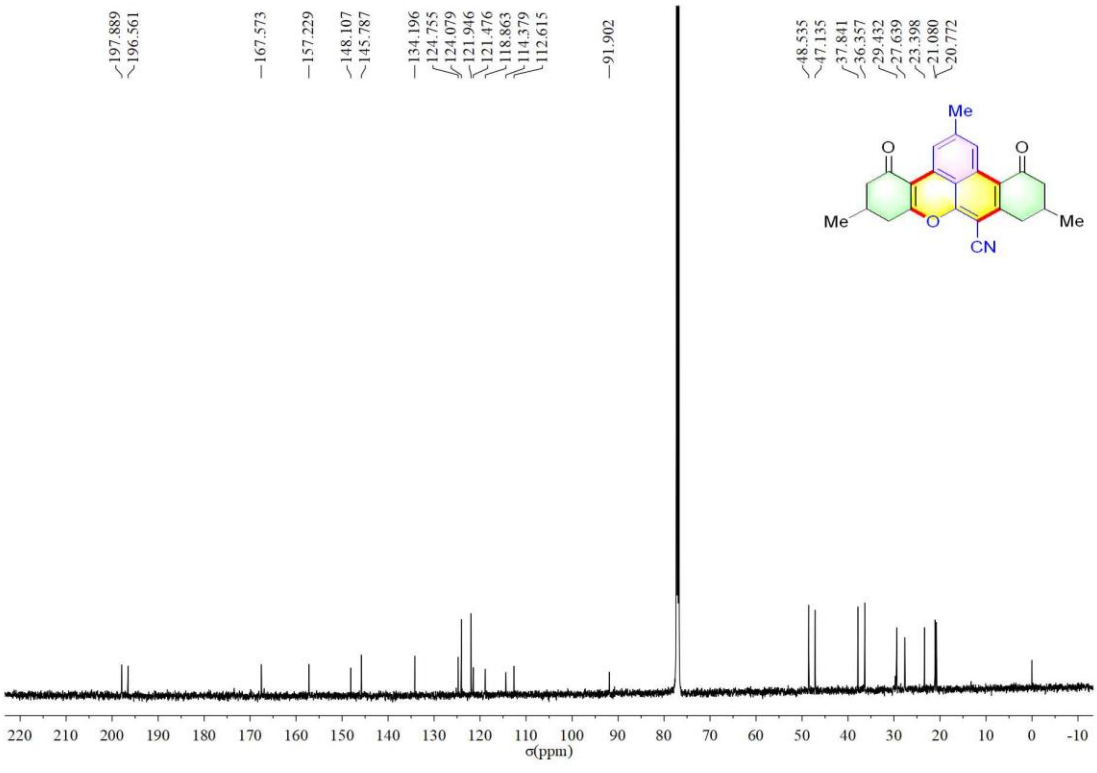
^{1}H NMR and ^{13}C NMR for compound **3g**



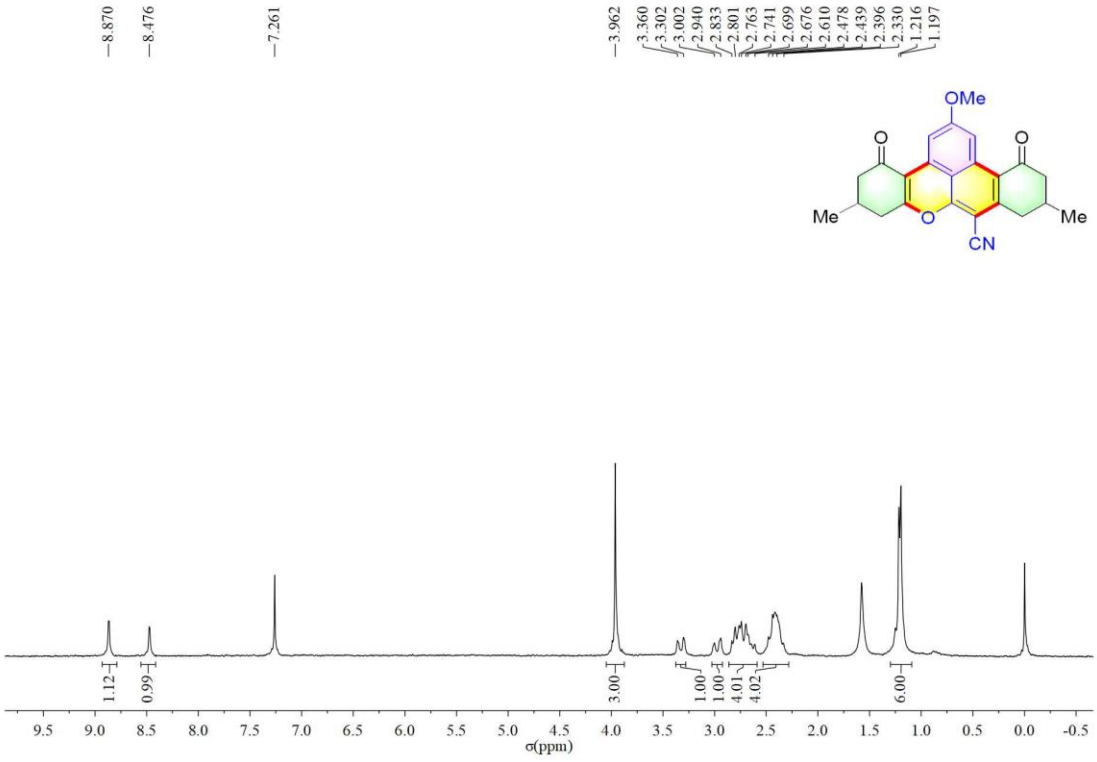


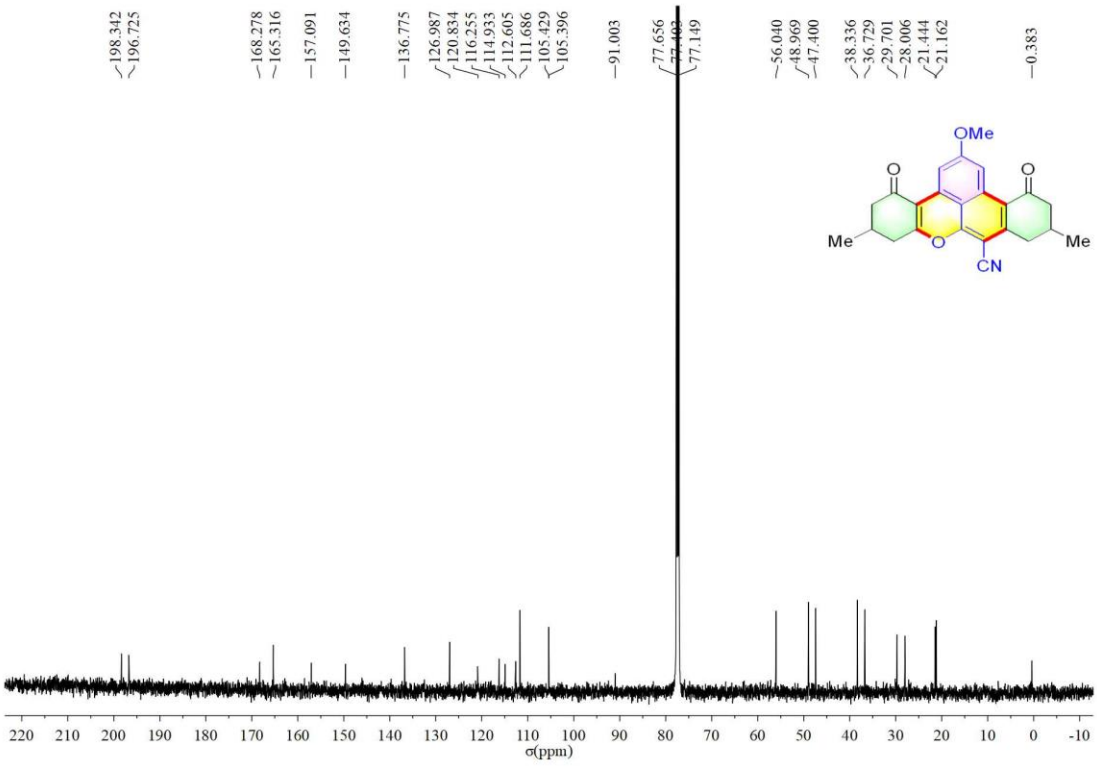
^{1}H NMR and ^{13}C NMR for compound **3h**



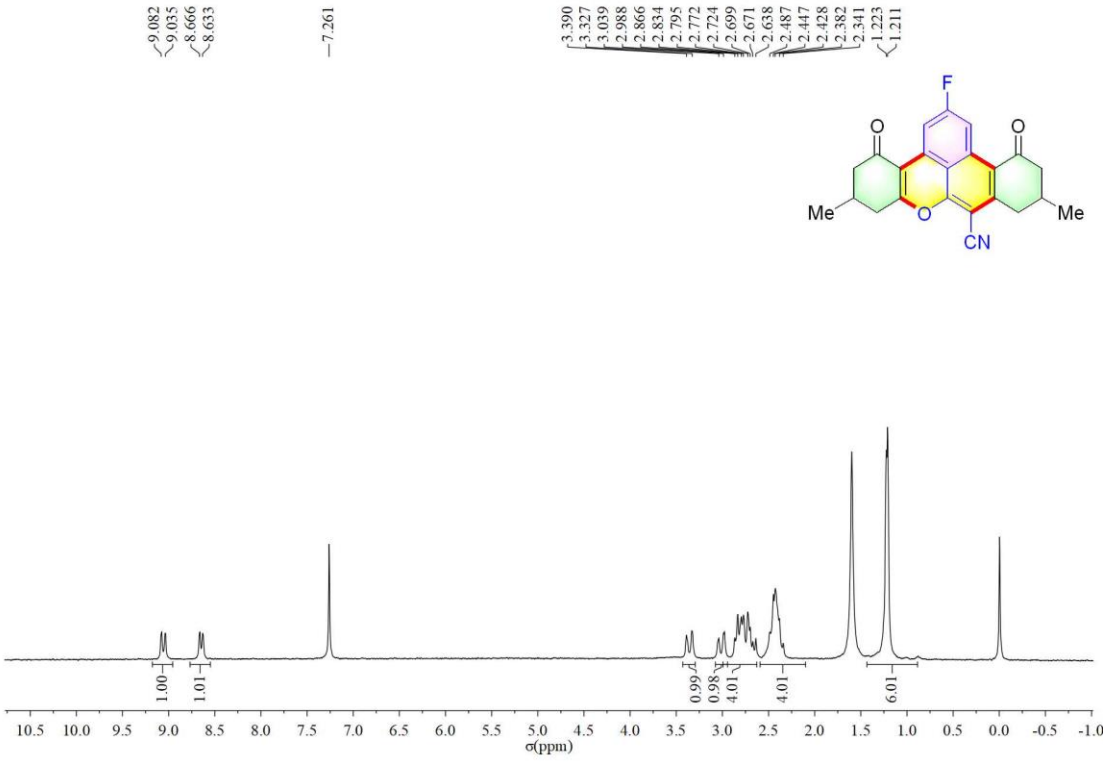


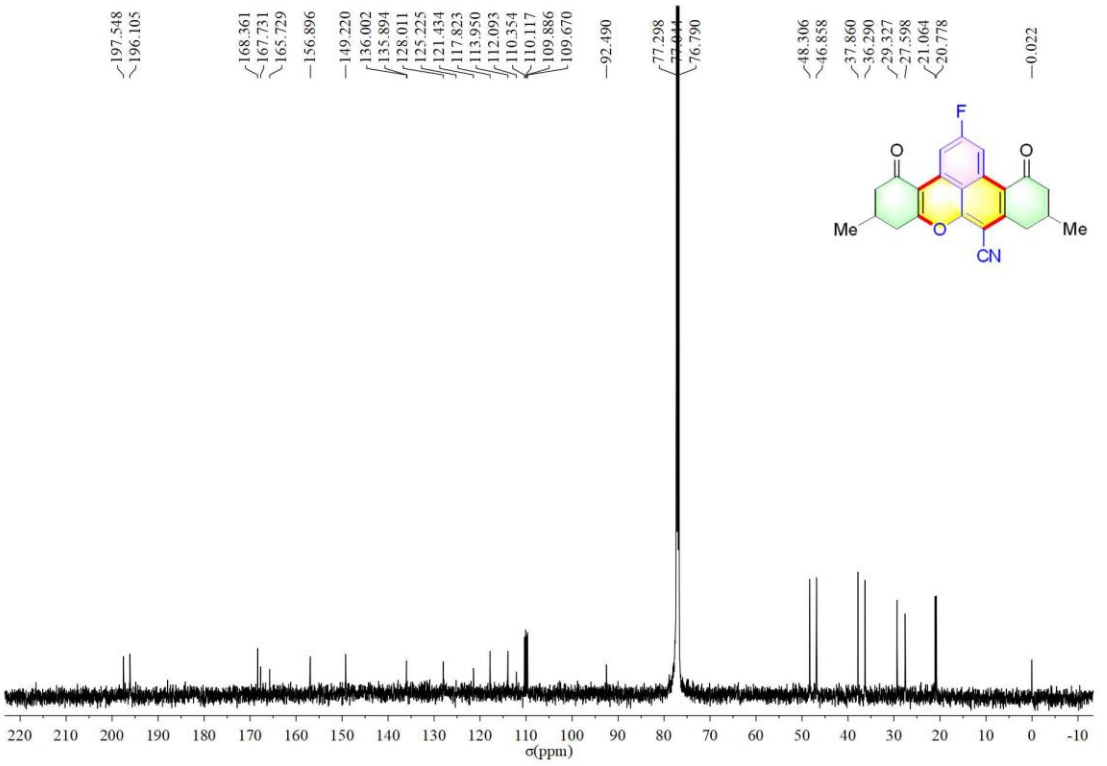
^{1}H NMR and ^{13}C NMR for compound **3i**



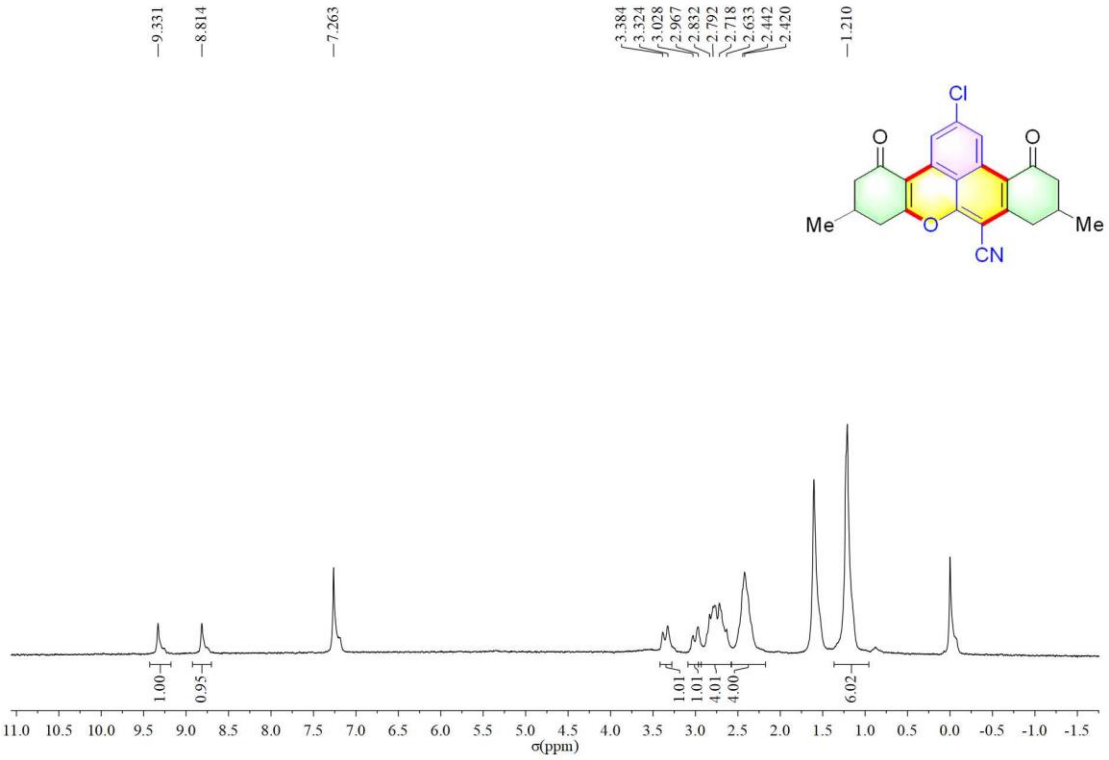


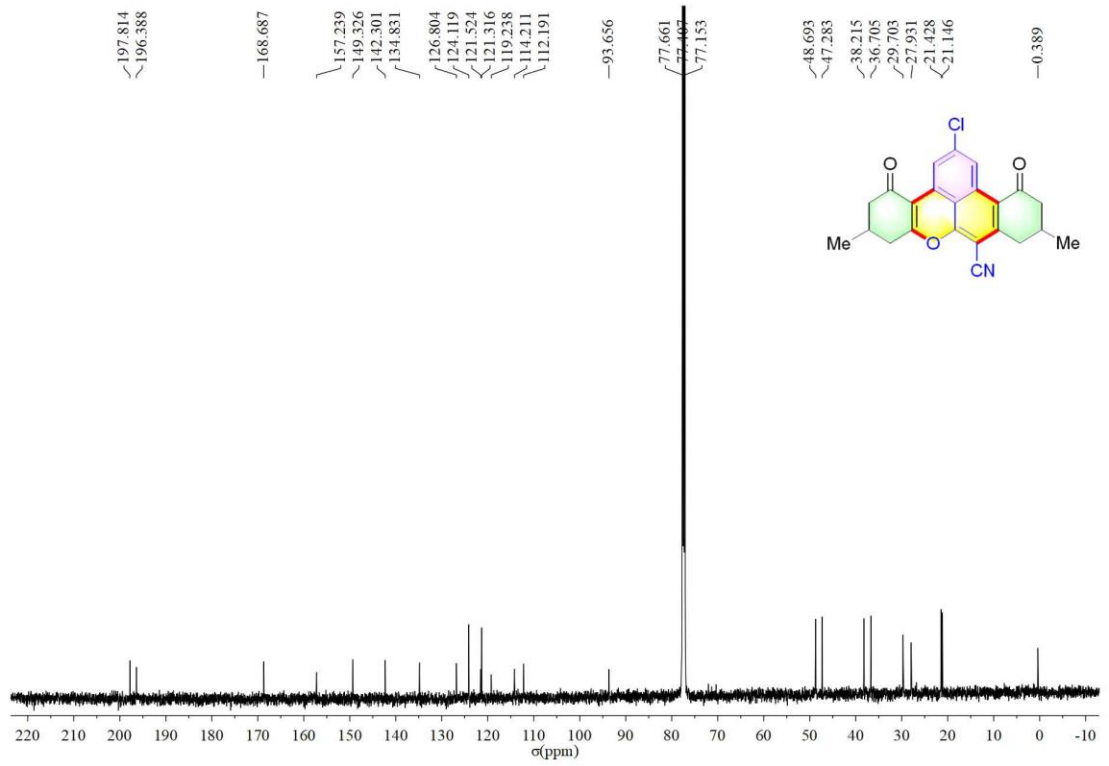
^{1}H NMR and ^{13}C NMR for compound **3j**



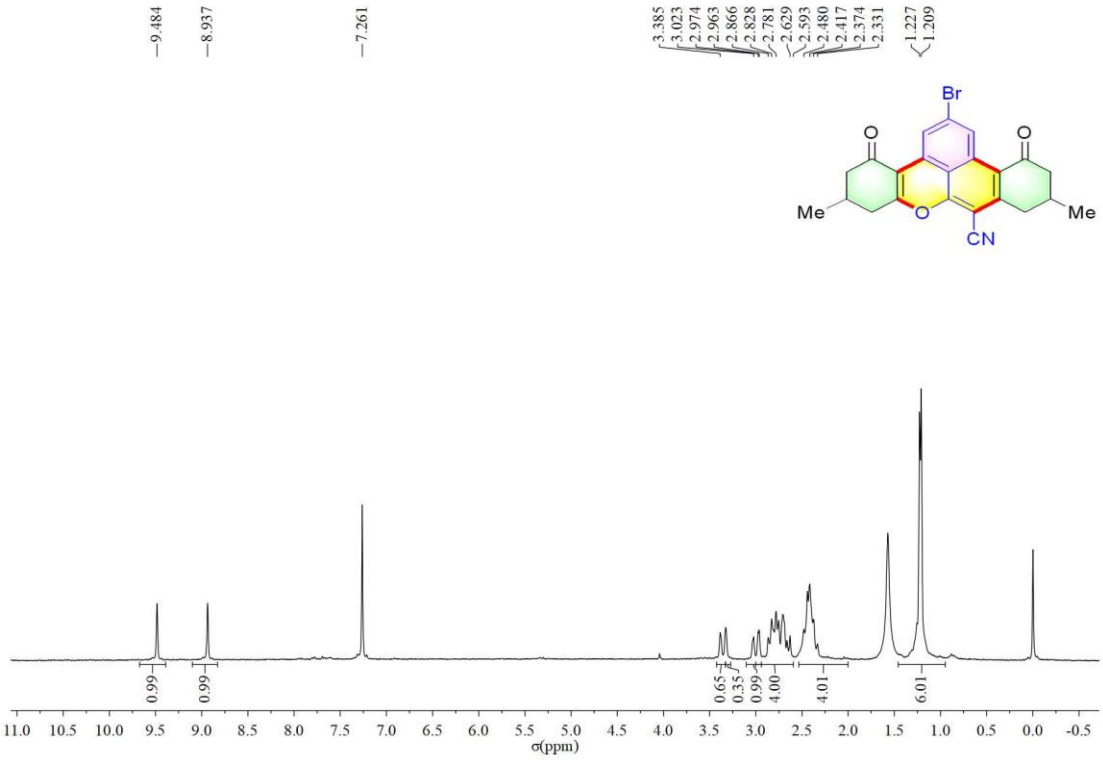


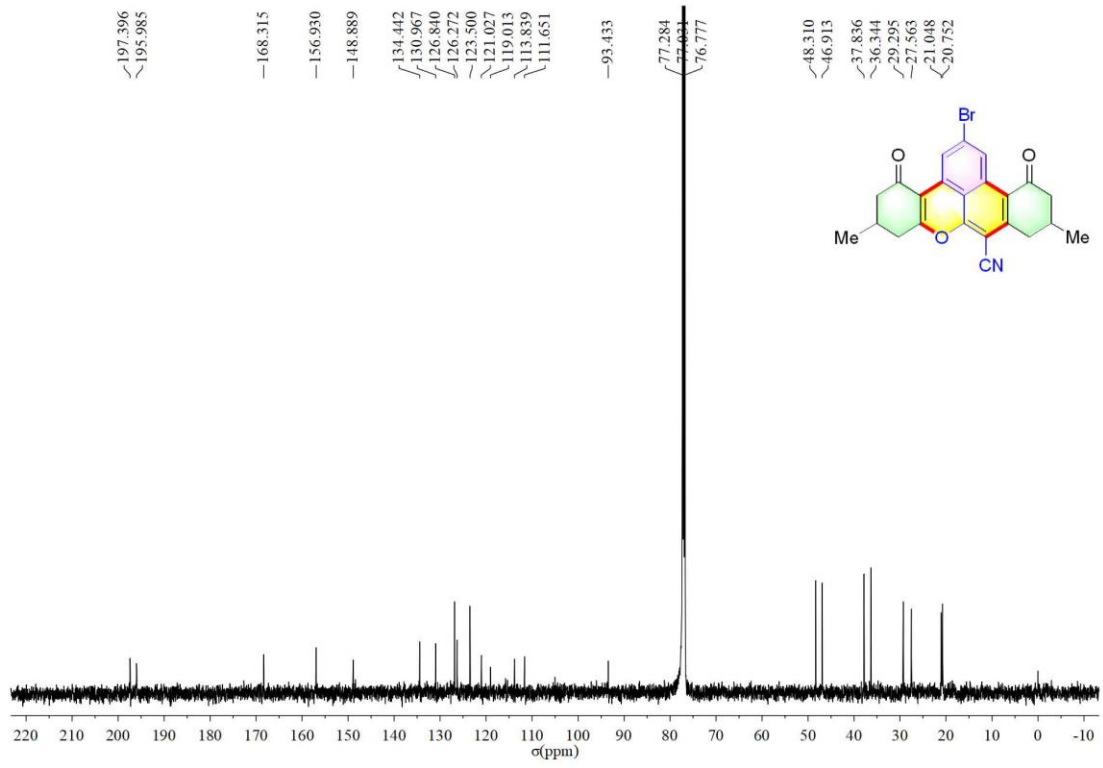
^{1}H NMR and ^{13}C NMR for compound **3k**



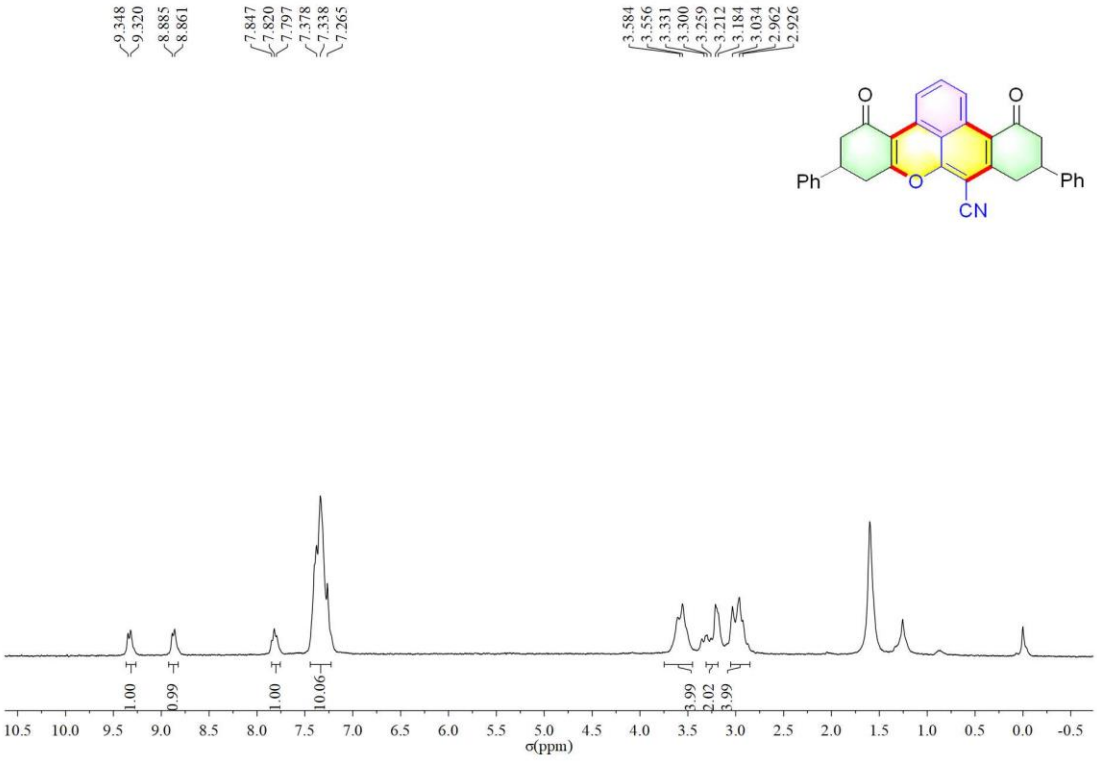


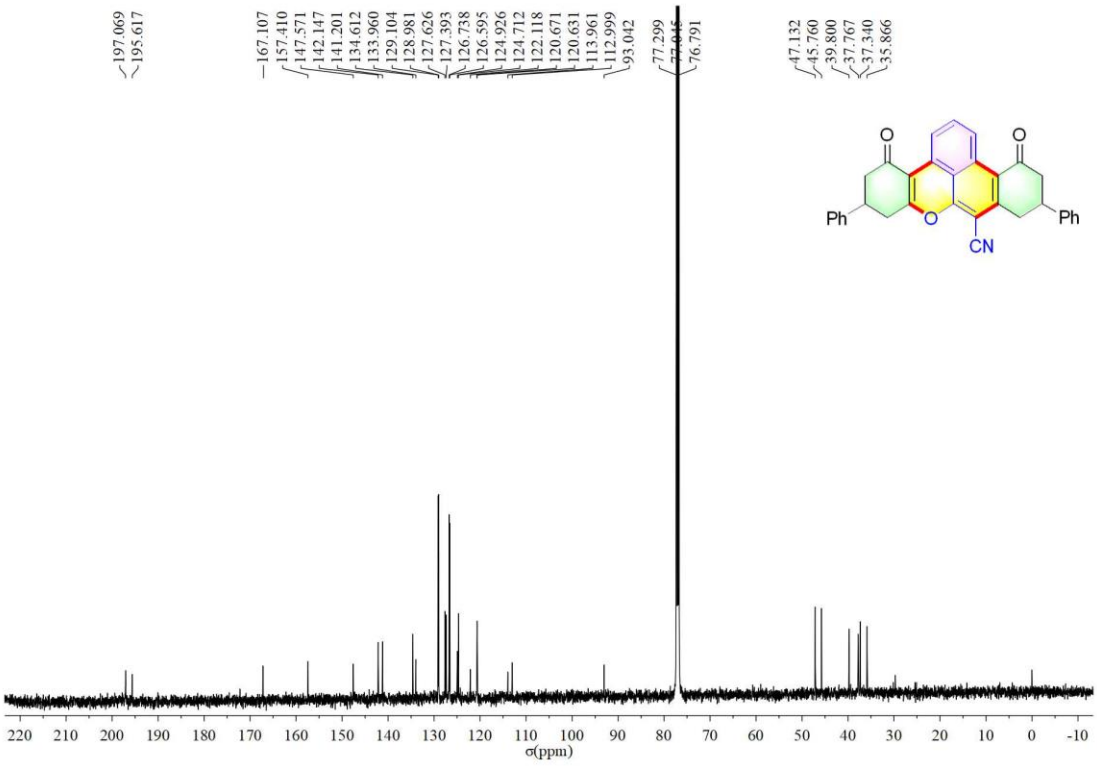
^{1}H NMR and ^{13}C NMR for compound **3l**



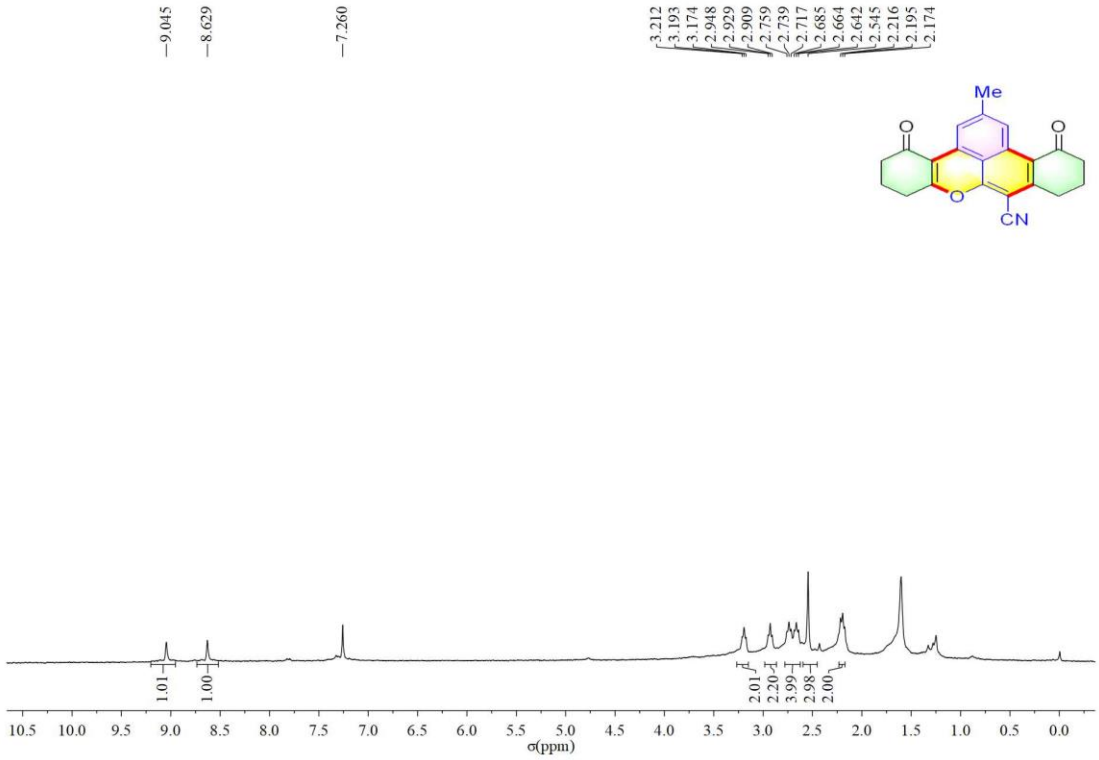


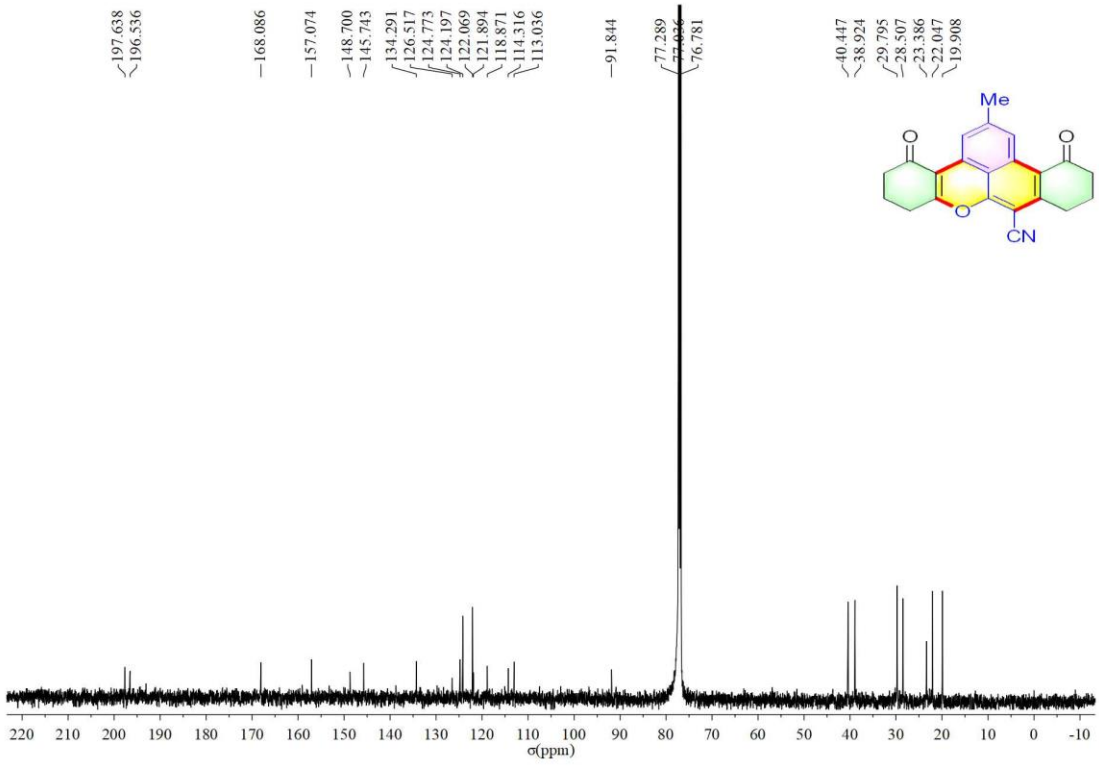
^{1}H NMR and ^{13}C NMR for compound **3m**



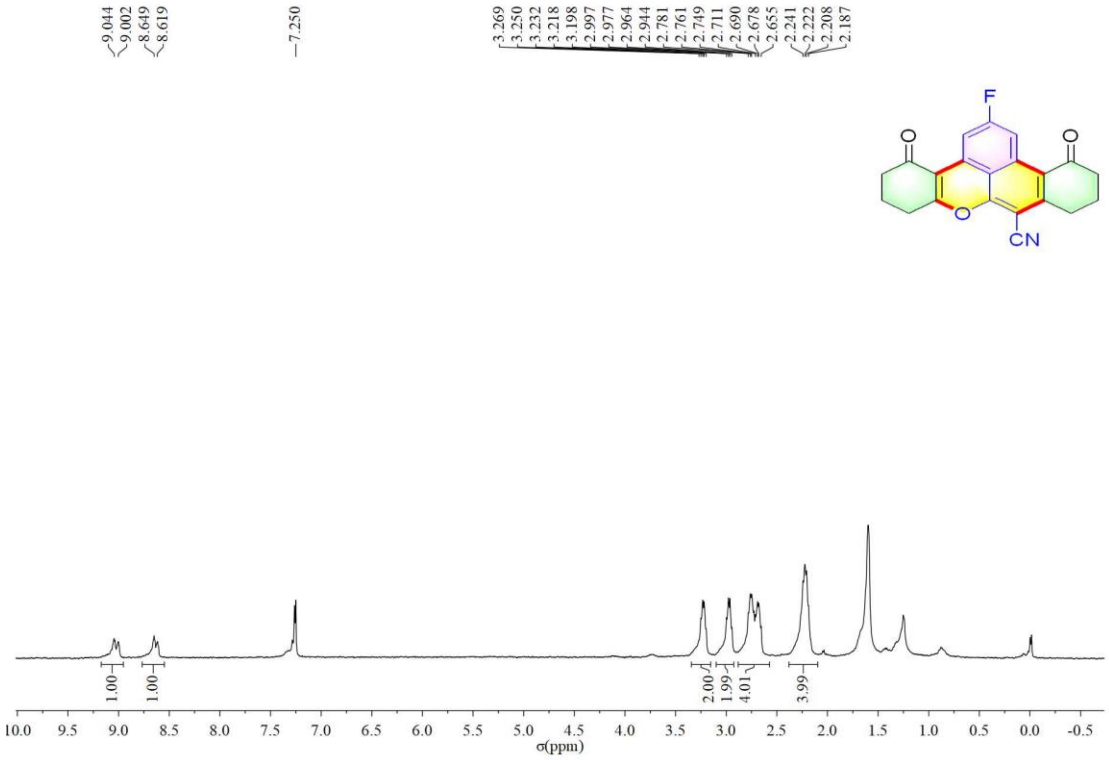


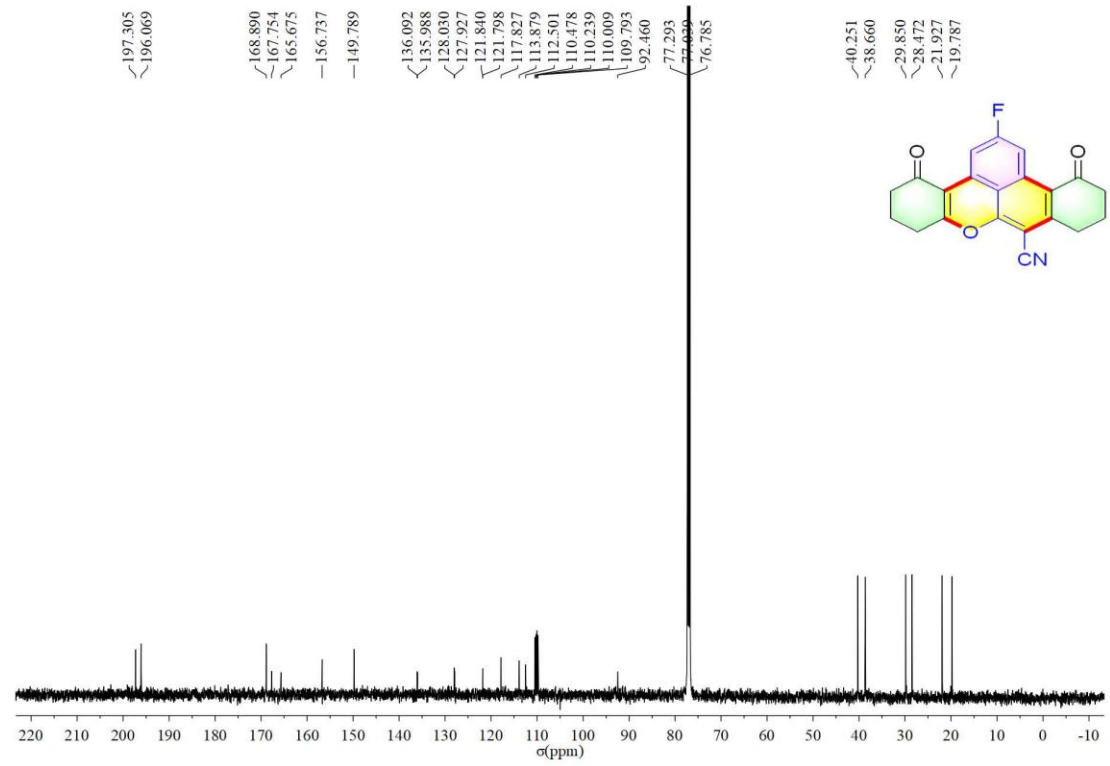
^{1}H NMR and ^{13}C NMR for compound **3n**





^{1}H NMR and ^{13}C NMR for compound **3o**





^{1}H NMR and ^{13}C NMR for compound **3p**