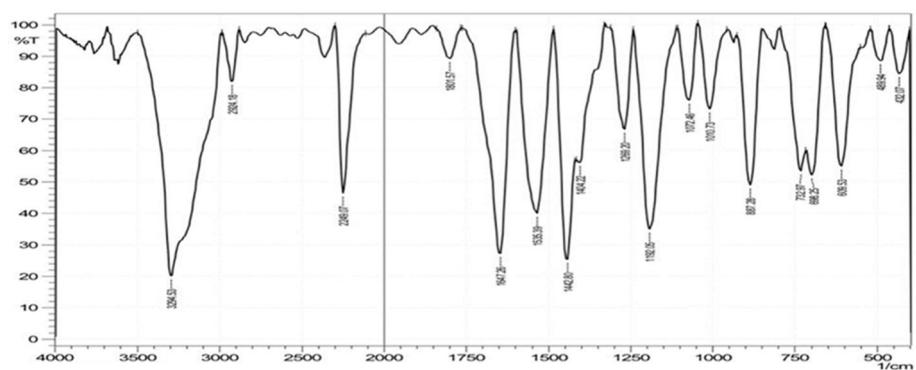
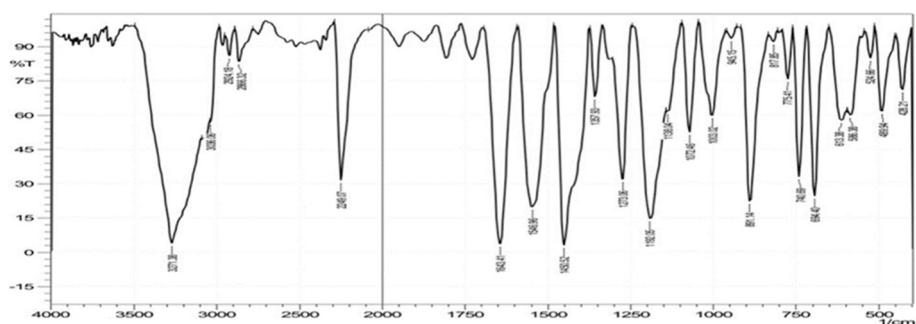


### Supplementary Data

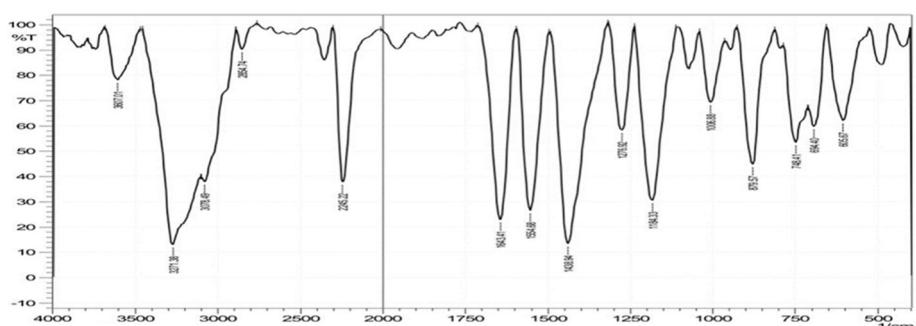
This supplementary data is a part of a paper entitled “New Charge-Transfer Complexes of Organochalcogenide Compound Based on Aryl Acetamide Group with Quinones: Synthesis, Characterization, Antioxidant, and Computational Study”.



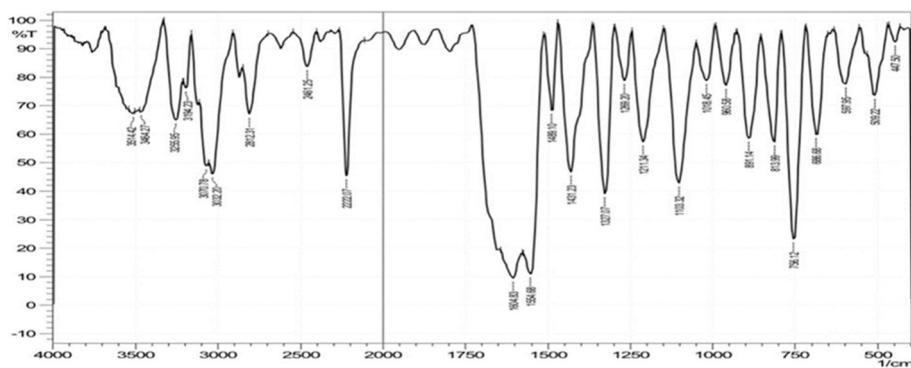
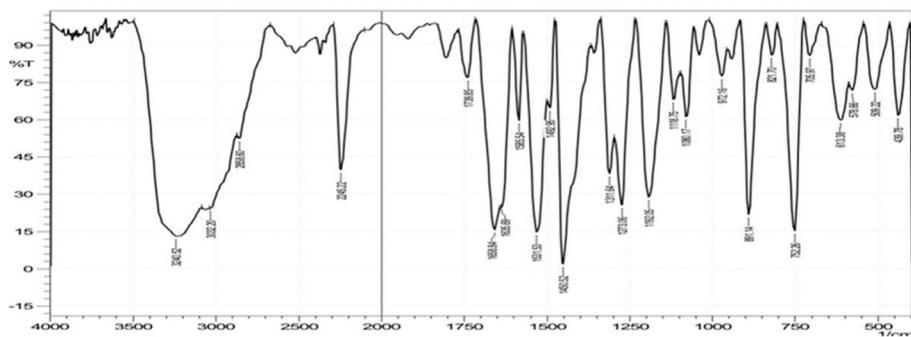
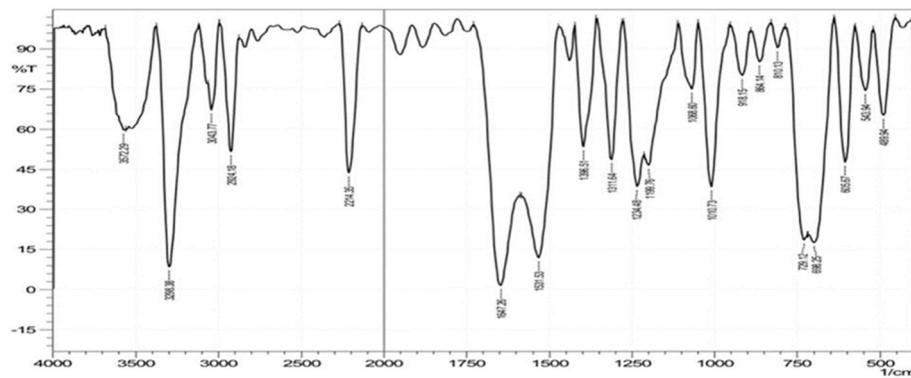
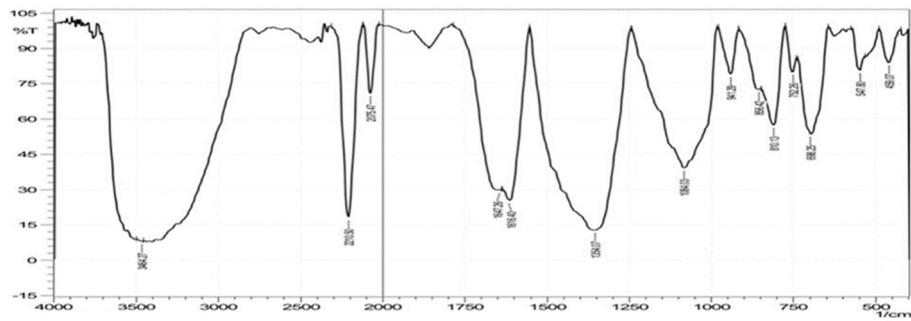
**Fig S1.** Infrared spectrum of compound I



**Fig S2.** Infrared spectrum of compound II



**Fig S3.** Infrared spectrum of compound III

**Fig S4.** Infrared spectrum of compound IV**Fig S5.** Infrared spectrum of compound V**Fig S6.** Infrared spectrum of compound VI**Fig S7.** Infrared spectrum of compound VII

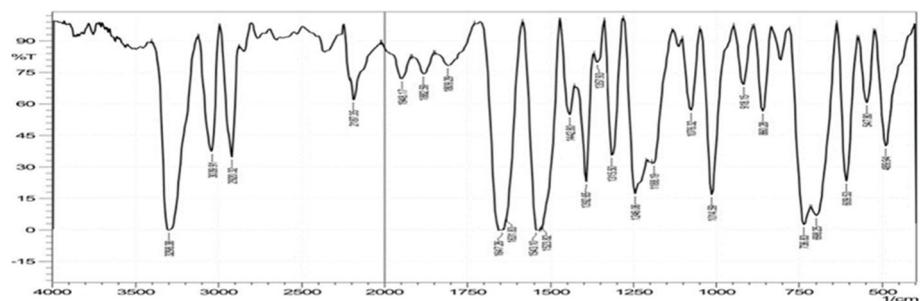


Fig S8. Infrared spectrum of compound VIII

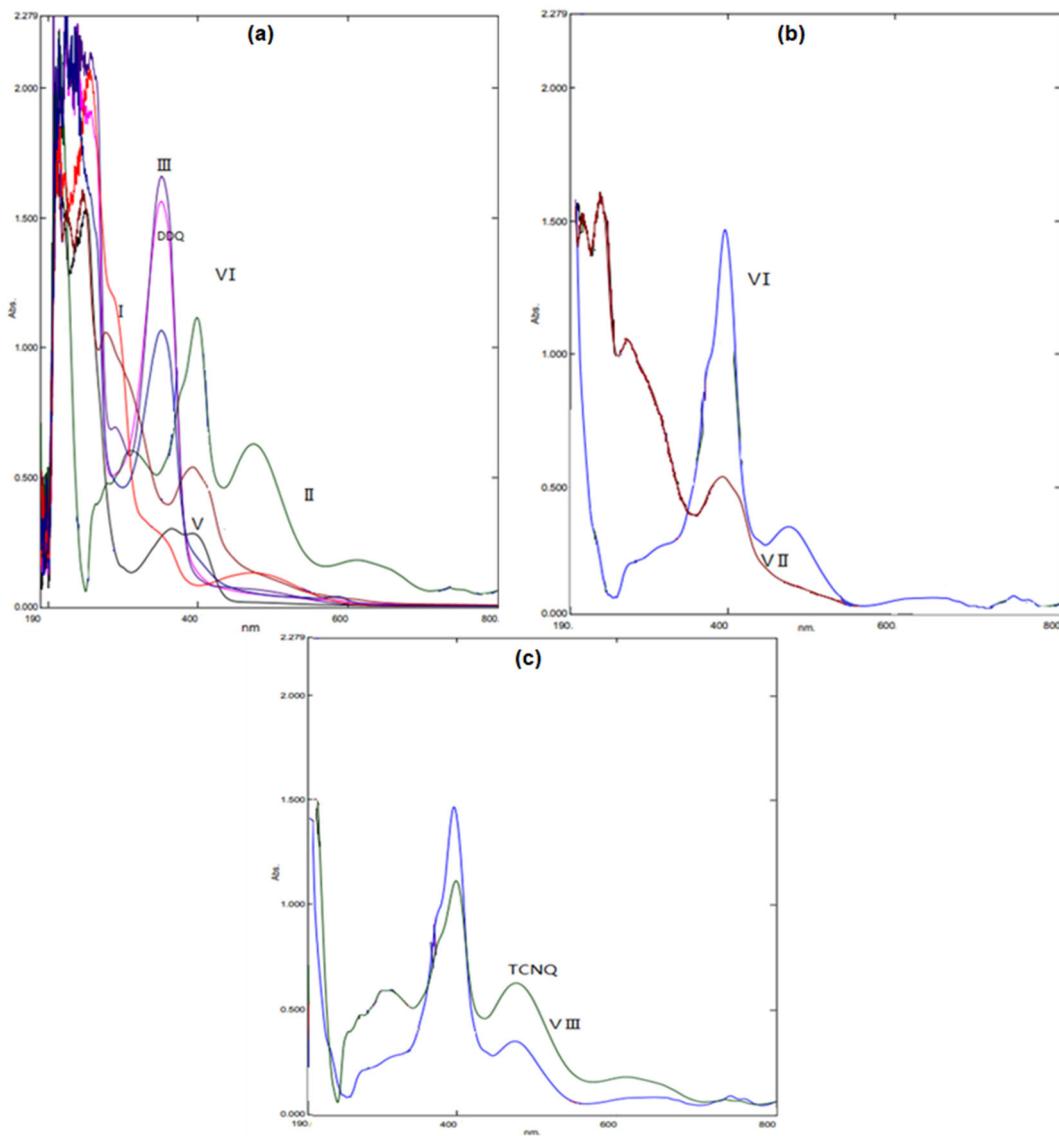
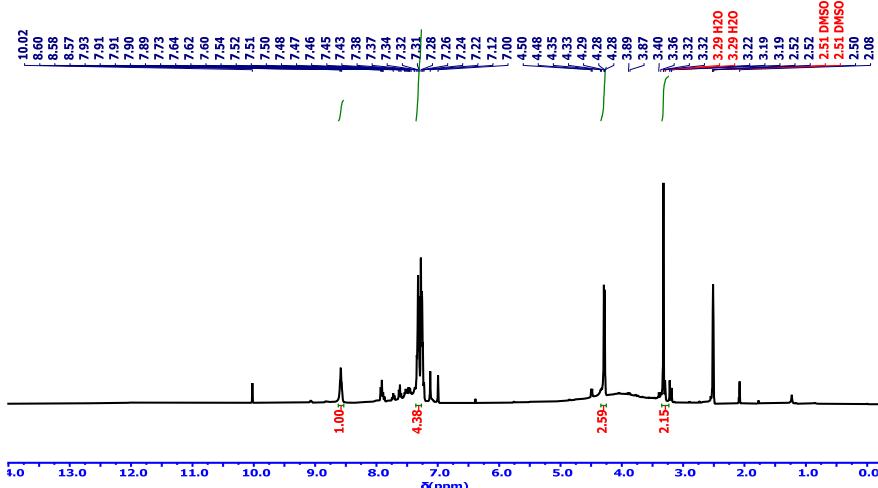
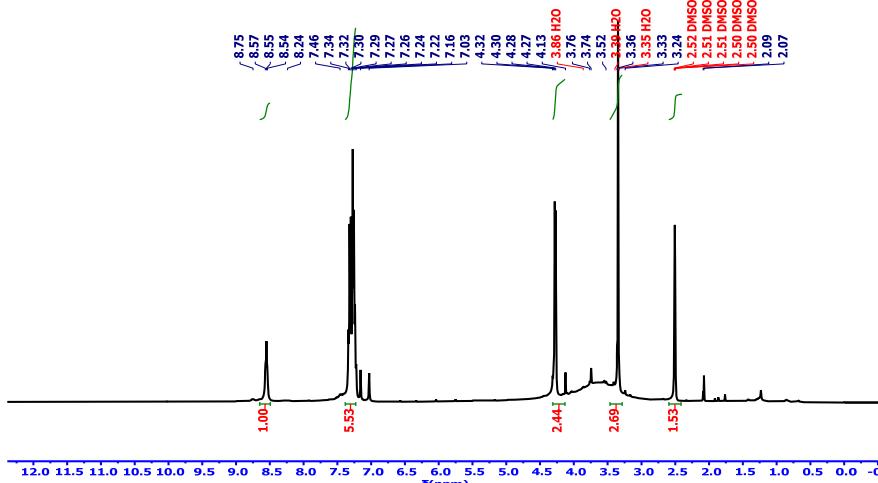
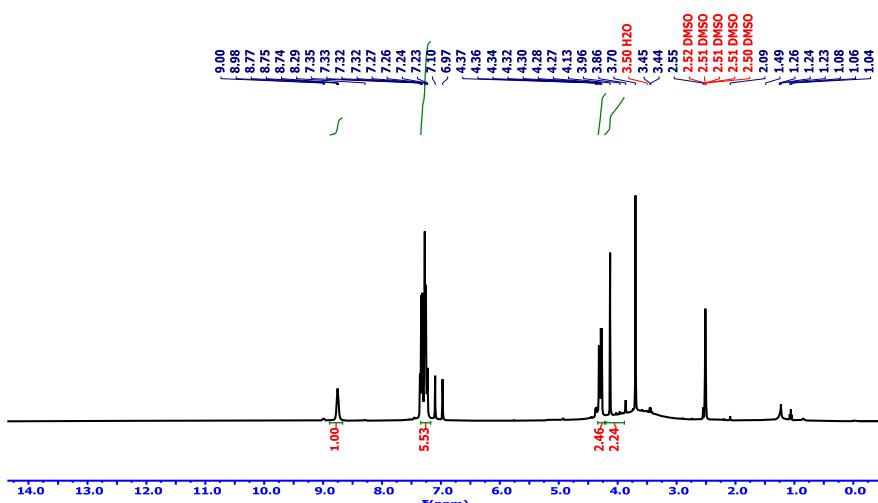
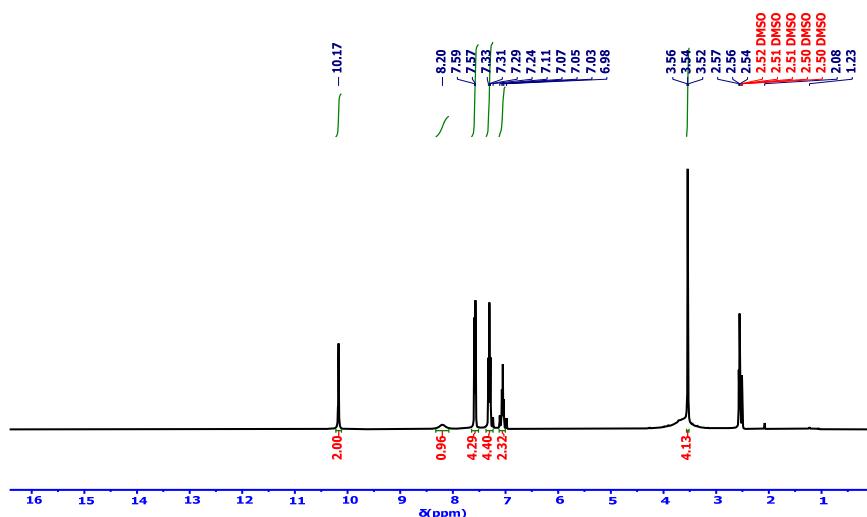
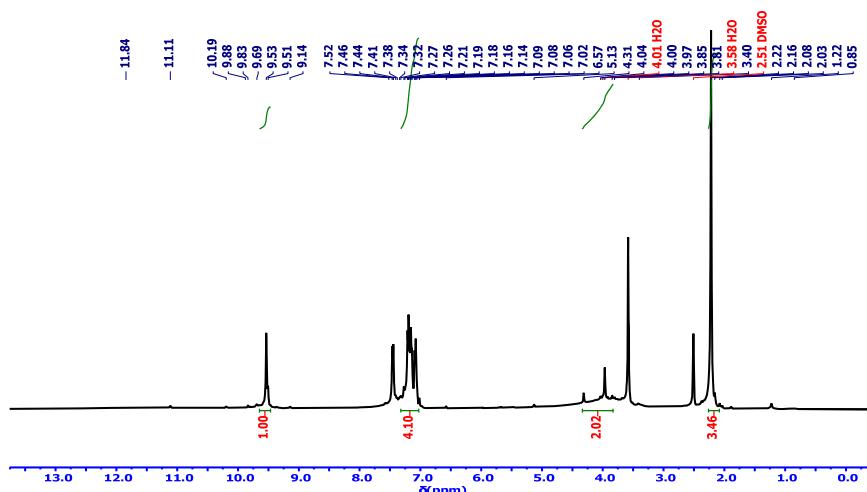
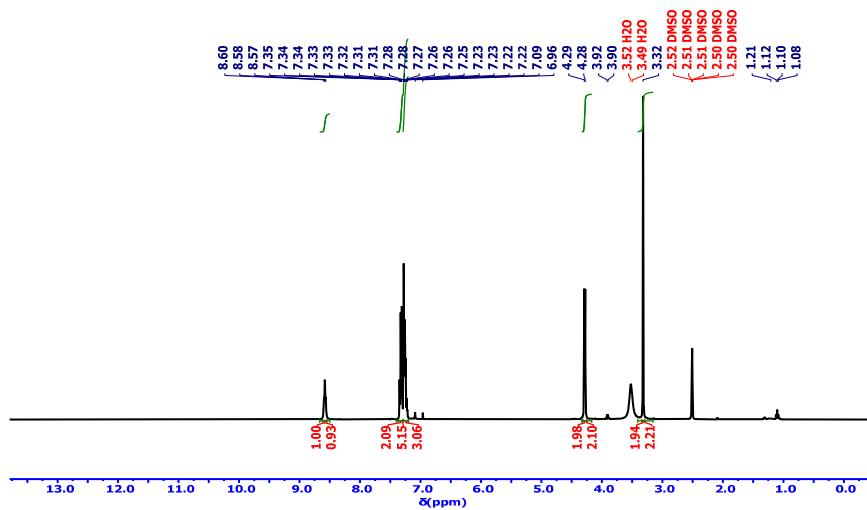
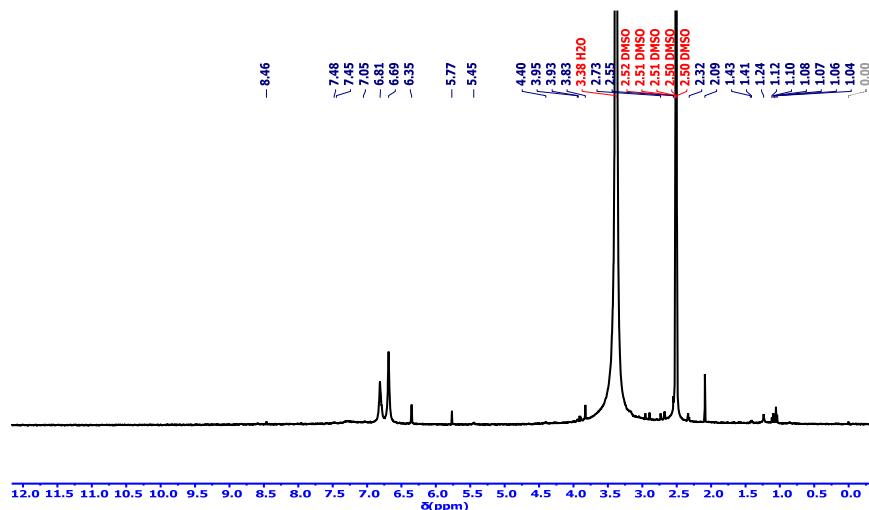
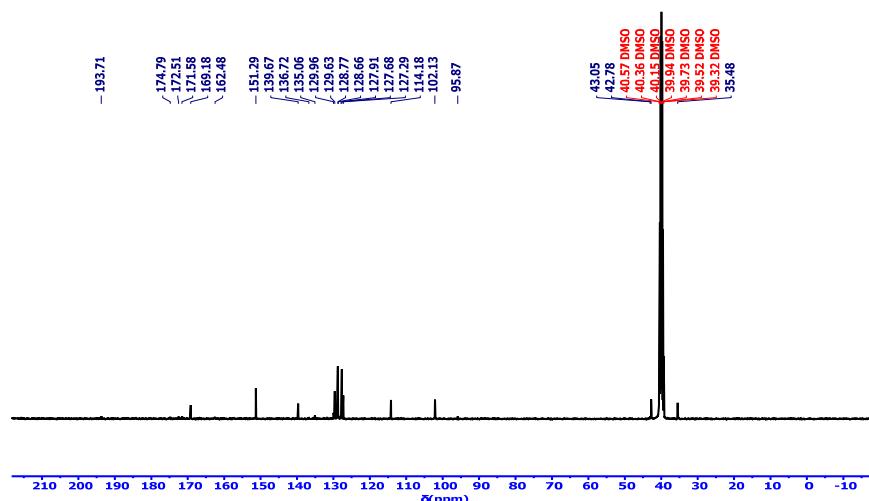
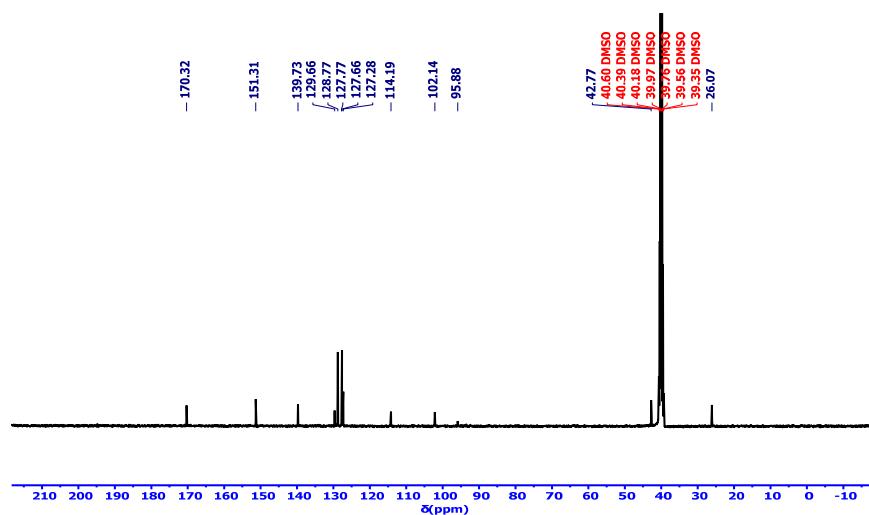
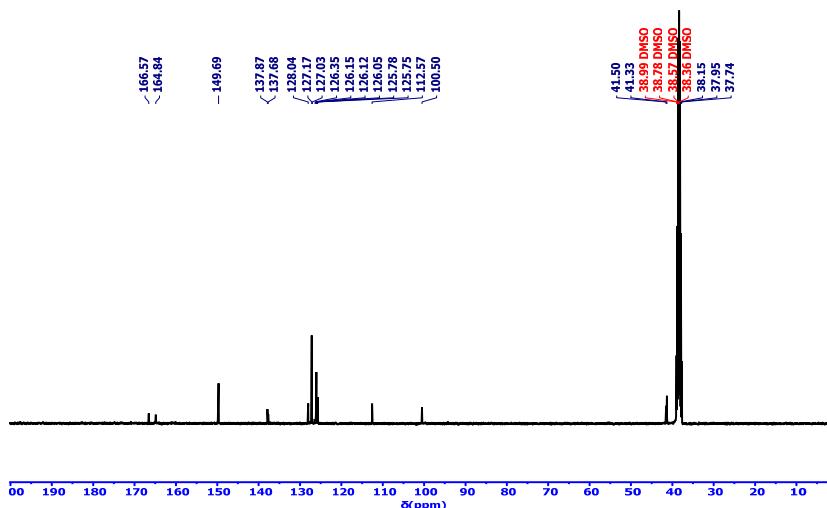


Fig S9. The UV-vis spectra for (a) CT complexes I-V, (b) CT complexes VI-VII, and (c) CT complex VIII

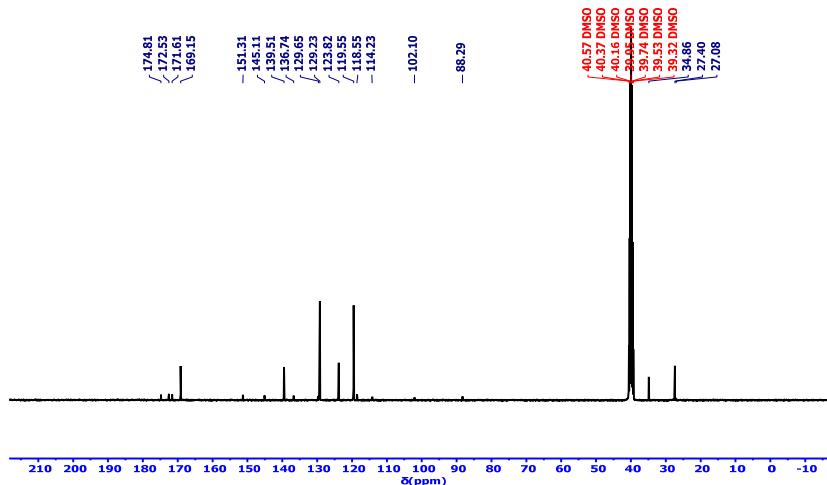
Fig S10. <sup>1</sup>H-NMR spectrum of compound IFig S11. <sup>1</sup>H-NMR spectrum of compound IIFig S12. <sup>1</sup>H-NMR spectrum of compound III

Fig S13. <sup>1</sup>H-NMR spectrum of compound IVFig S14. <sup>1</sup>H-NMR spectrum of compound VFig S15. <sup>1</sup>H-NMR spectrum of compound VI

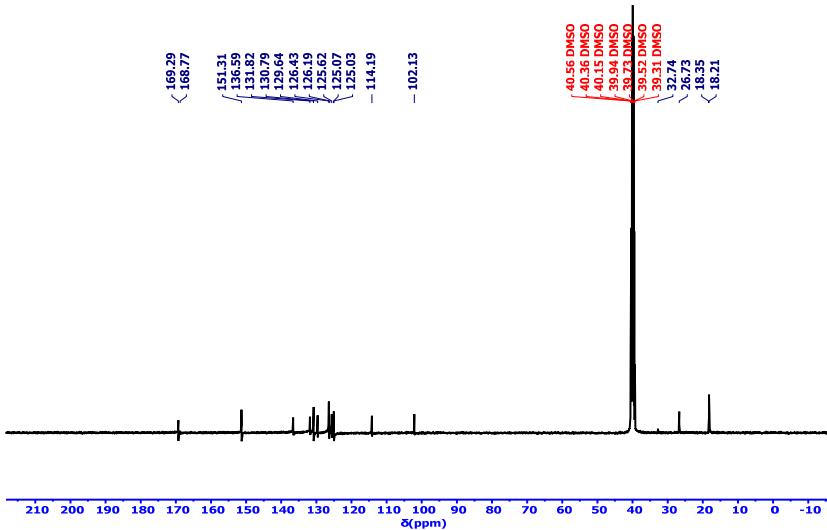
Fig S16. <sup>1</sup>H-NMR spectrum of compound VIIFig S17. <sup>13</sup>C-NMR spectrum of compound IFig S18. <sup>13</sup>C-NMR spectrum of compound II



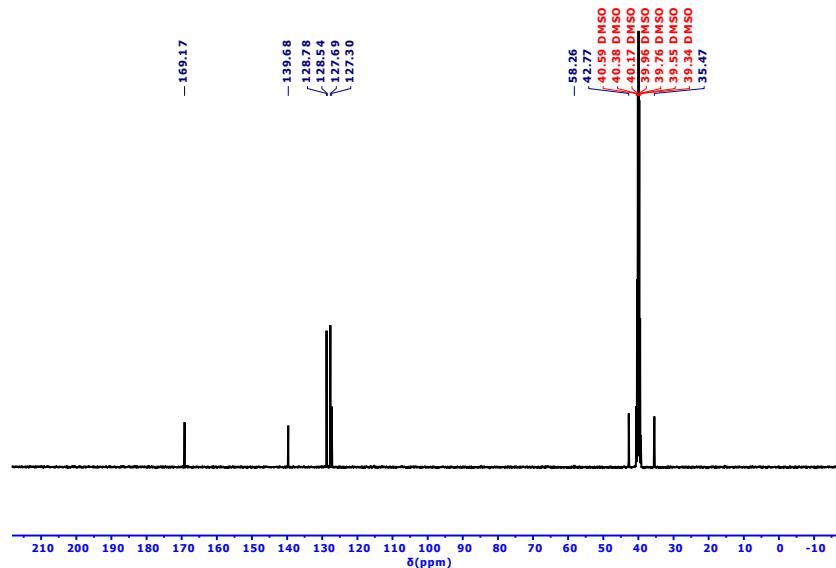
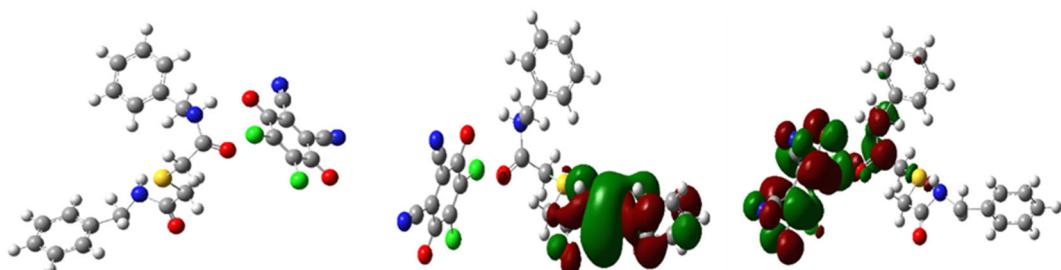
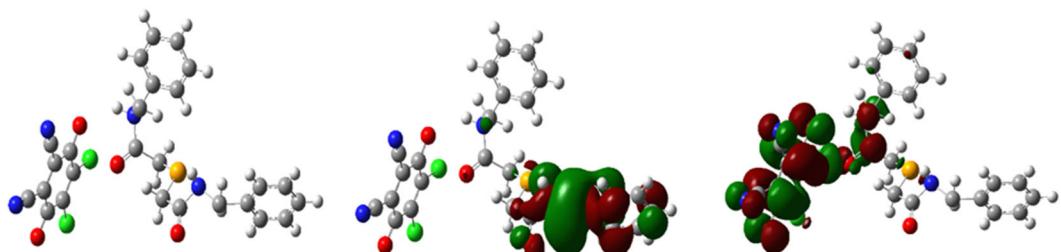
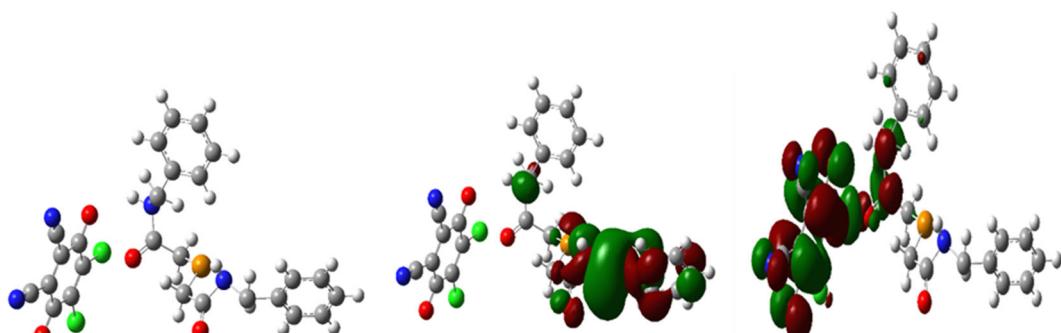
**Fig S19.** <sup>13</sup>C-NMR spectrum of compound III

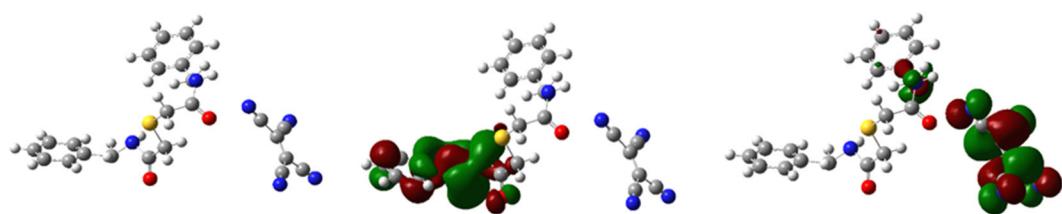


**Fig S20.** <sup>13</sup>C-NMR spectrum of compound IV

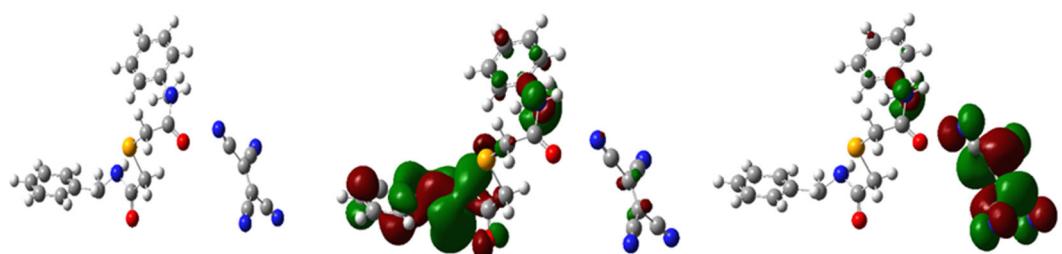


**Fig S21.** <sup>13</sup>C-NMR spectrum of compound V

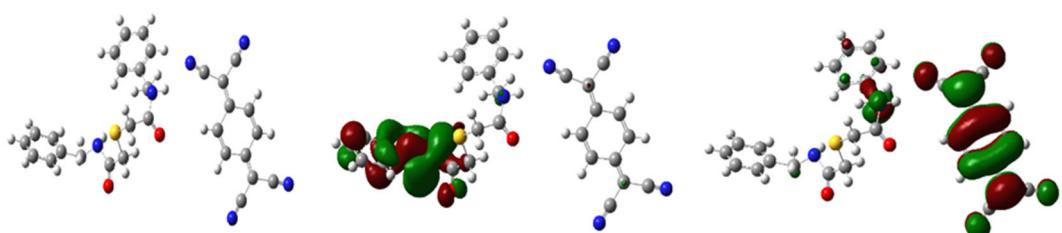
**Fig S22.** <sup>13</sup>C-NMR spectrum of compound VI**Fig S23.** Molecular structure and molecular orbitals (HOMO and LUMO) of compound I**Fig S24.** Molecular structure and molecular orbitals (HOMO and LUMO) of compound II**Fig S25.** Molecular structure and molecular orbitals (HOMO and LUMO) of compound III



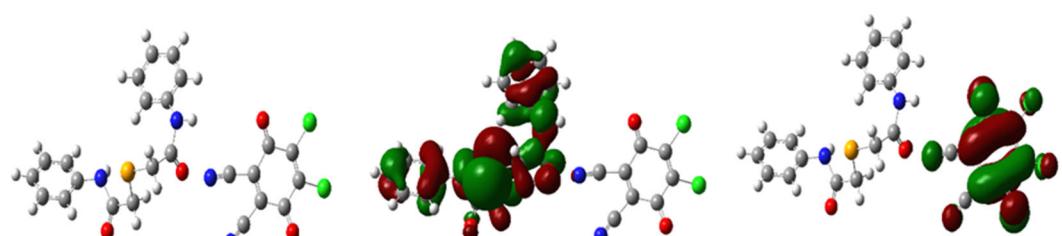
**Fig S26.** Molecular structure and molecular orbitals (HOMO and LUMO) of compound VI



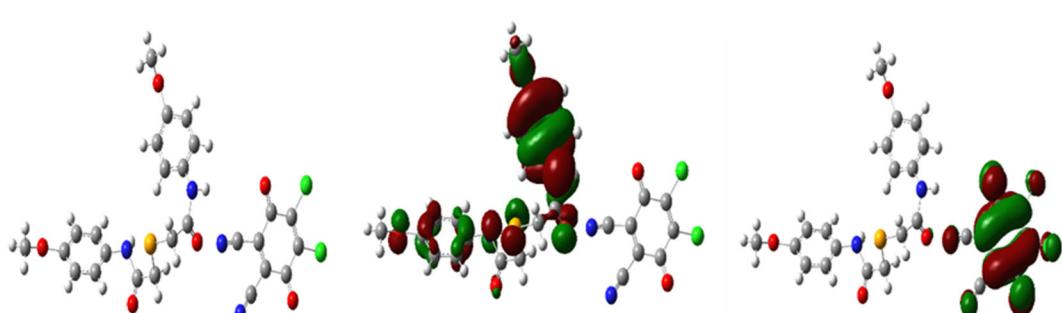
**Fig S27.** Molecular structure and molecular orbitals (HOMO and LUMO) of compound VII



**Fig S28.** Molecular structure and molecular orbitals (HOMO and LUMO) of compound VIII



**Fig S29.** Molecular structure and molecular orbitals (HOMO and LUMO) of compound IV



**Fig S30.** Molecular structure and molecular orbitals (HOMO and LUMO) of compound V