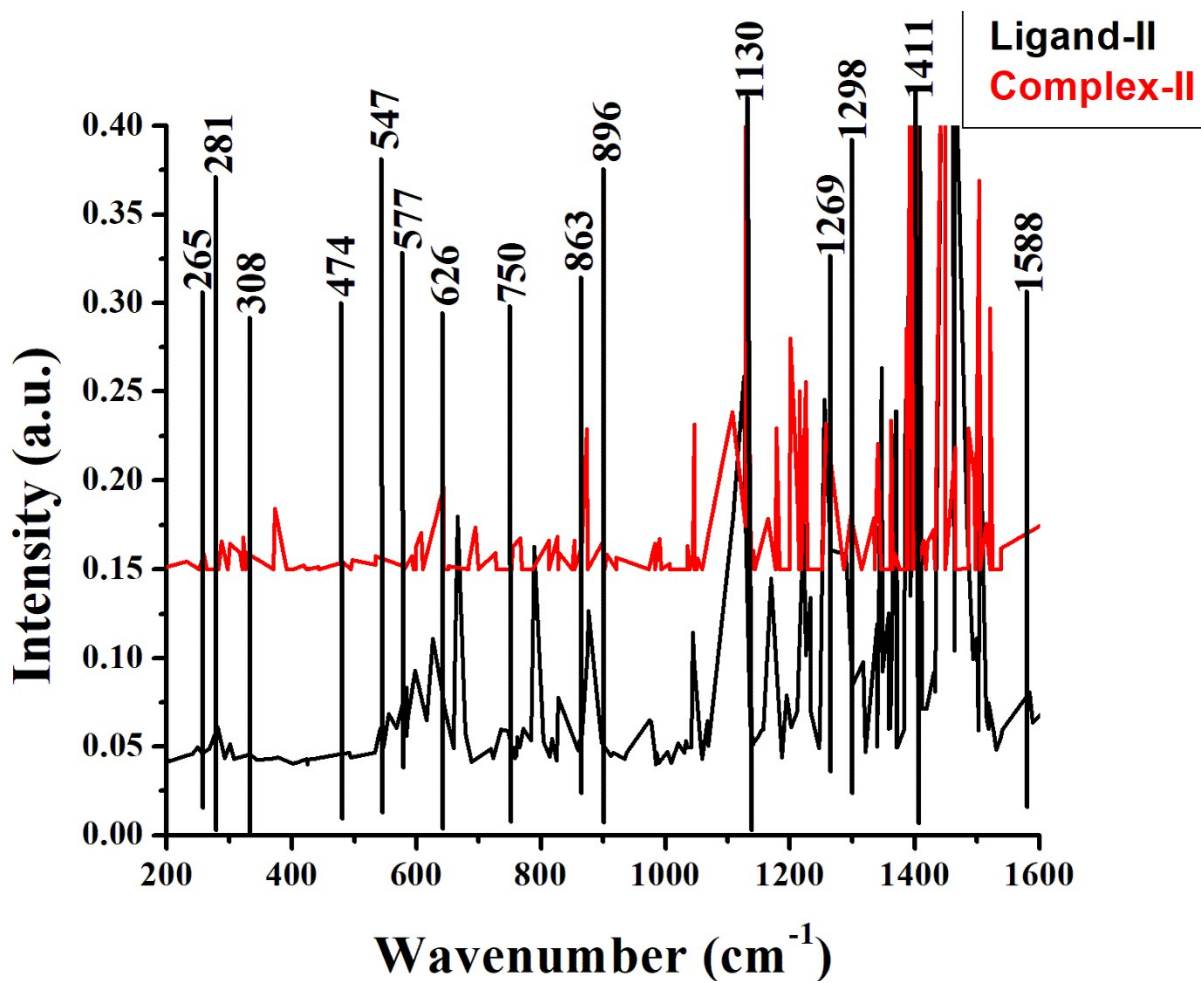
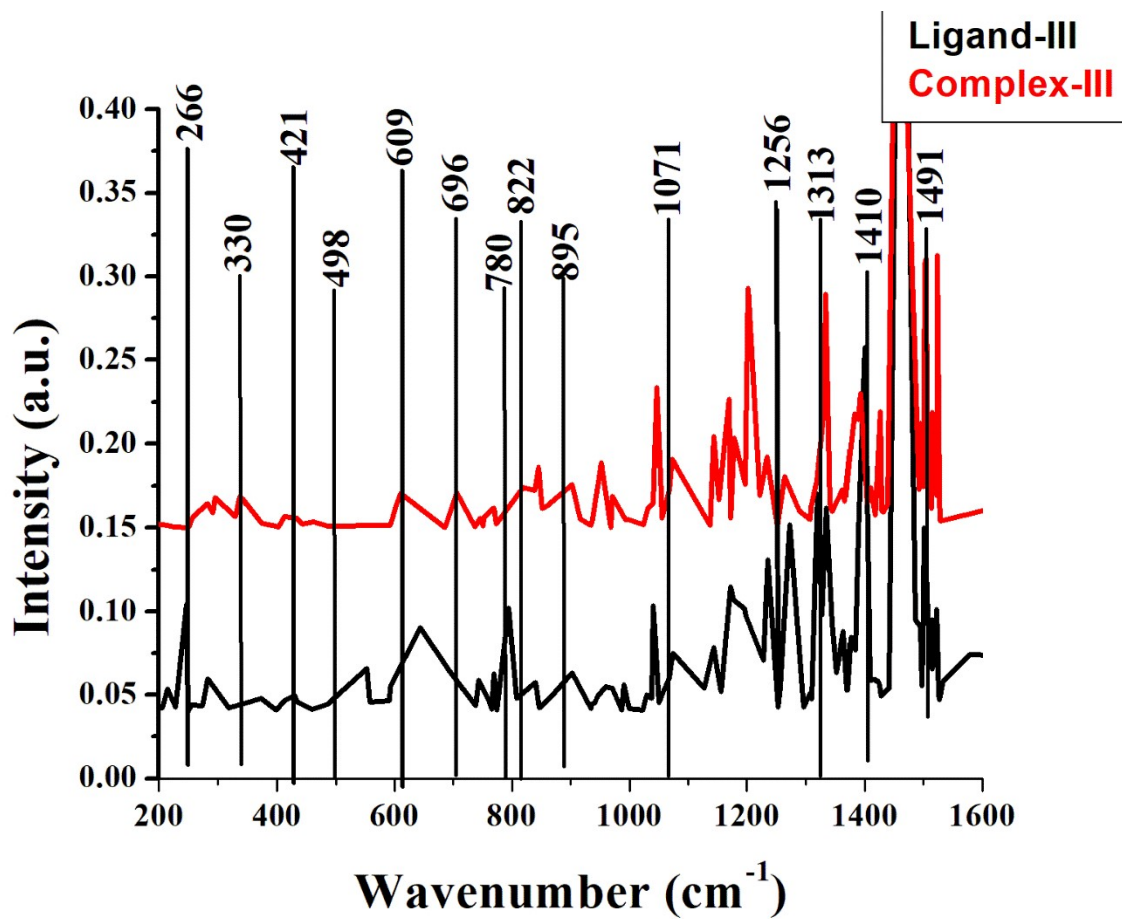


**Figure. S1.** Comparison between DFT calculated mean Raman spectra of ligand-I (L1) and complex-I (C1)



**Figure. S2** Comparison between DFT calculated mean Raman spectra of ligand-II (L2) and complex-II (C2)



**Figure. S3** Comparison between DFT calculated mean Raman spectra of ligand-III (L3) and complex-III (C3)