Electronic Supplementary Information (ESI)

Synthesis, two-photon absorption and aggregation-induced emission properties of multi-branched triphenylamine derivatives based on diketopyrrolopyrrole for bioimaging

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Content list

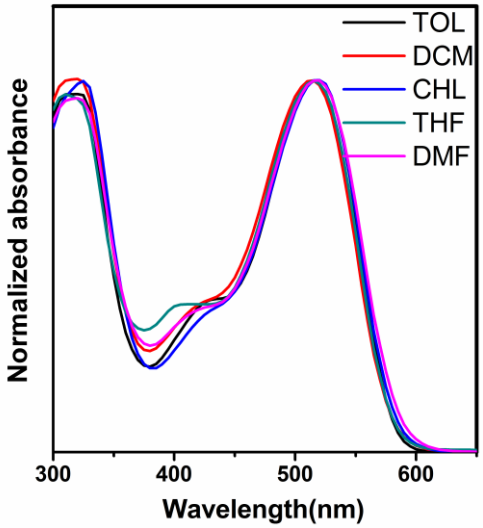

Fig. S1 one-photon absorption spectra of **YJ-1** in toluene (TOL), dichloromethane (DCM), chloroform (CHL), tetrahydrofuran (THF), dimethyl formamide (DMF) at the concentration of 1×10^{-5}M.

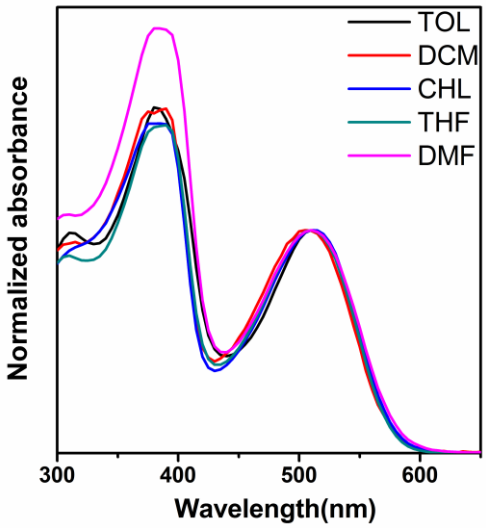

Fig. S2 one-photon absorption spectra of **YJ-2** in TOL, DCM, CHL, THF, DMF at the concentration of 1×10^{-5}M.

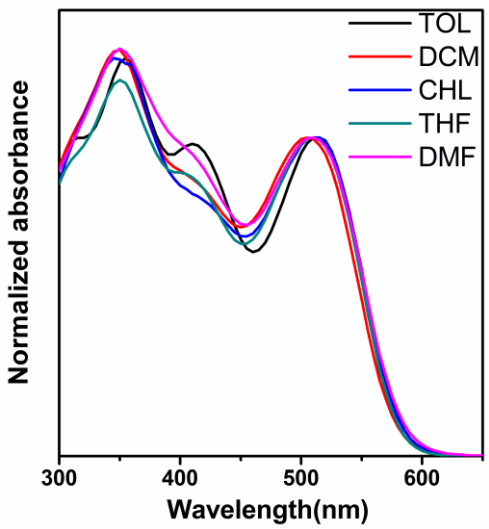

Fig. S3 one-photon absorption spectra of **YJ-3** in TOL, DCM, CHL, THF, DMF at the concentration of 1×10^{-5}M.

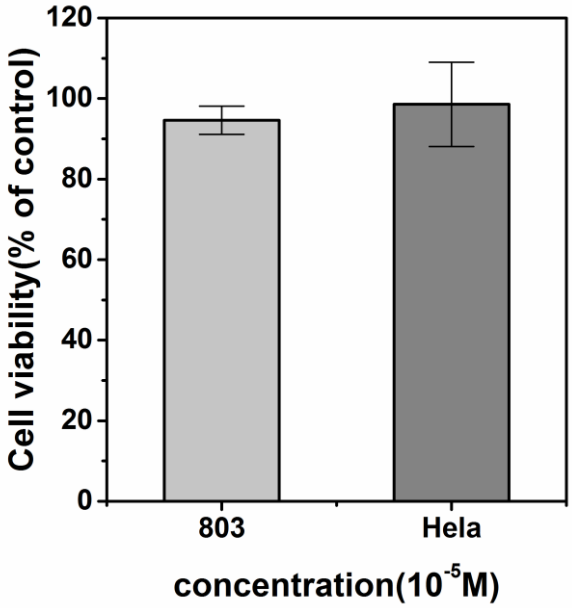

Fig. S4 Viability of 803 and Hela cells after incubation with **YJ-1** (1×10^{-5}M) for 24h.

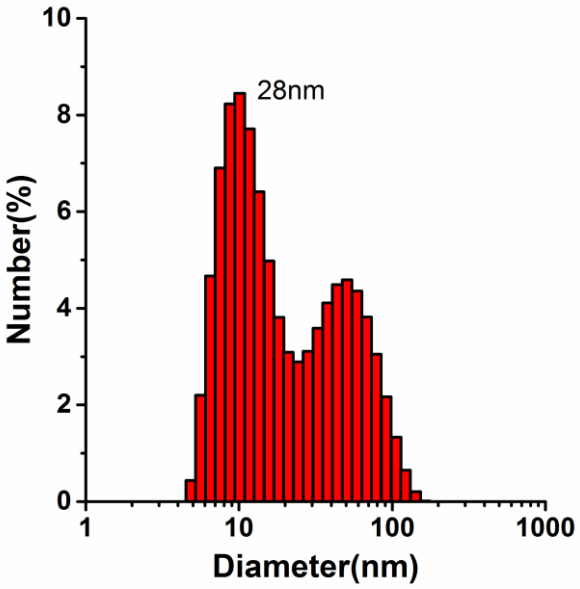

Fig. S5 Dulbecco's modified Eagle's medium (DMEM) studied by dynamic light scattering (DLS).

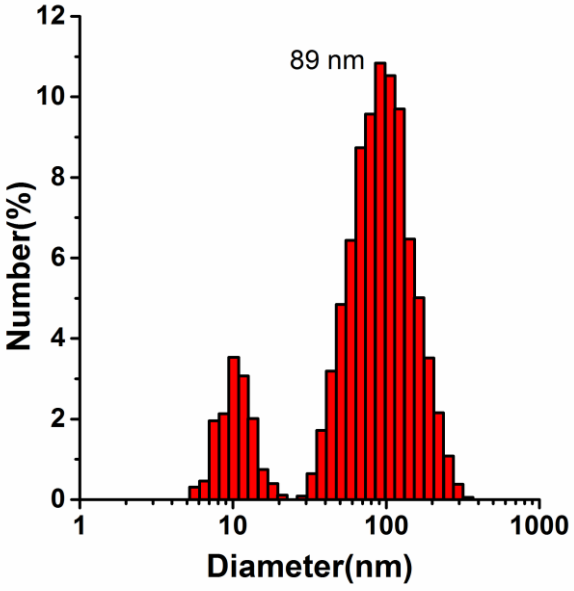

Fig. S6 YJ-1 in DMSO/DMEM (1: 99 v/v) mixtures studied by DLS at concentration of 1×10^{-5}M

Characterization:

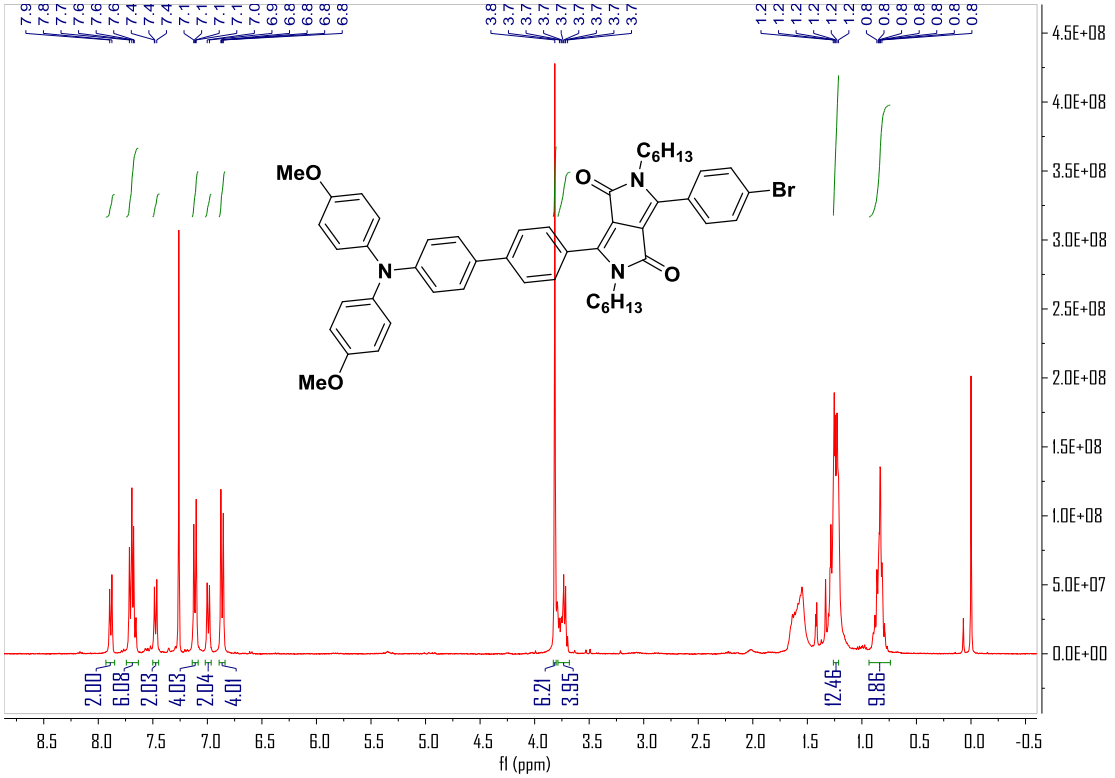

Fig. S7 ^{1}H NMR of compound **4**

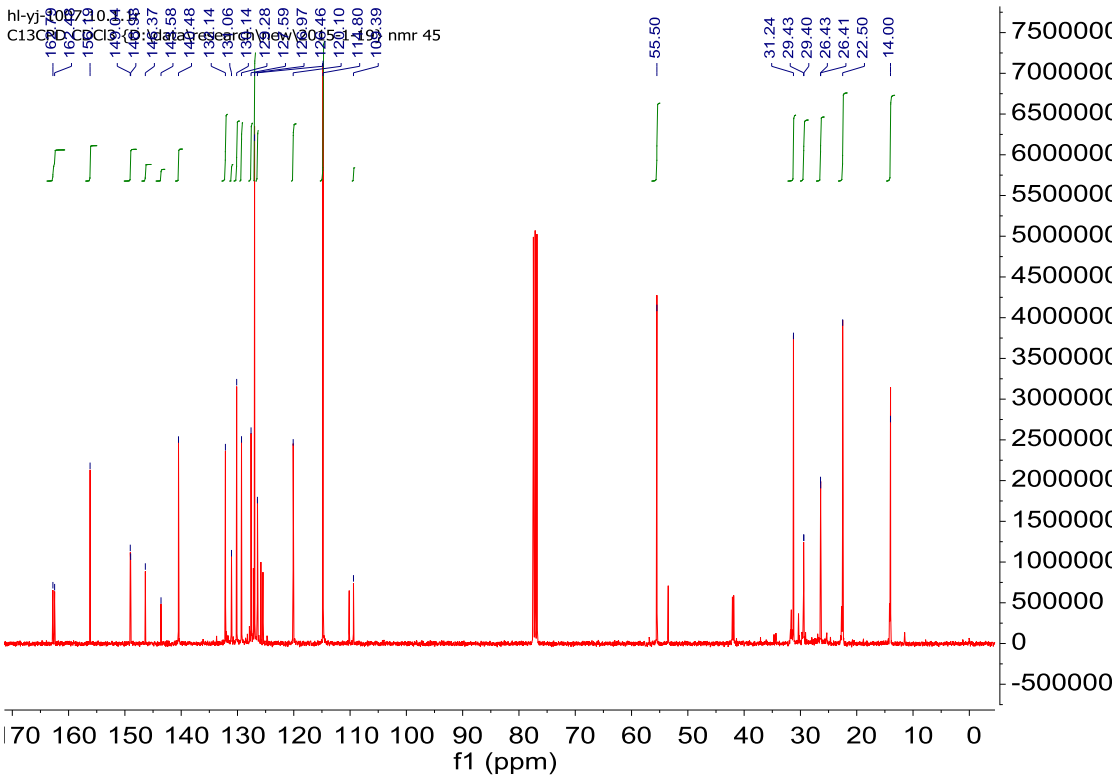

Fig. S8 ^{13}C NMR of compound **4**

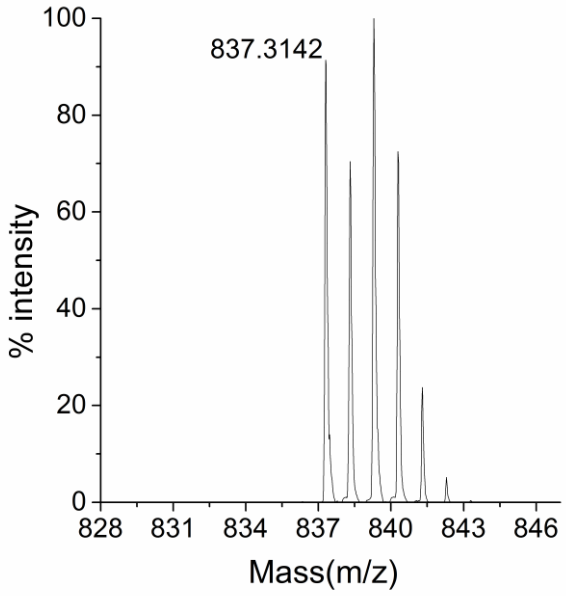

Fig. S9 MALDI-TOF spectrum of compound **4**

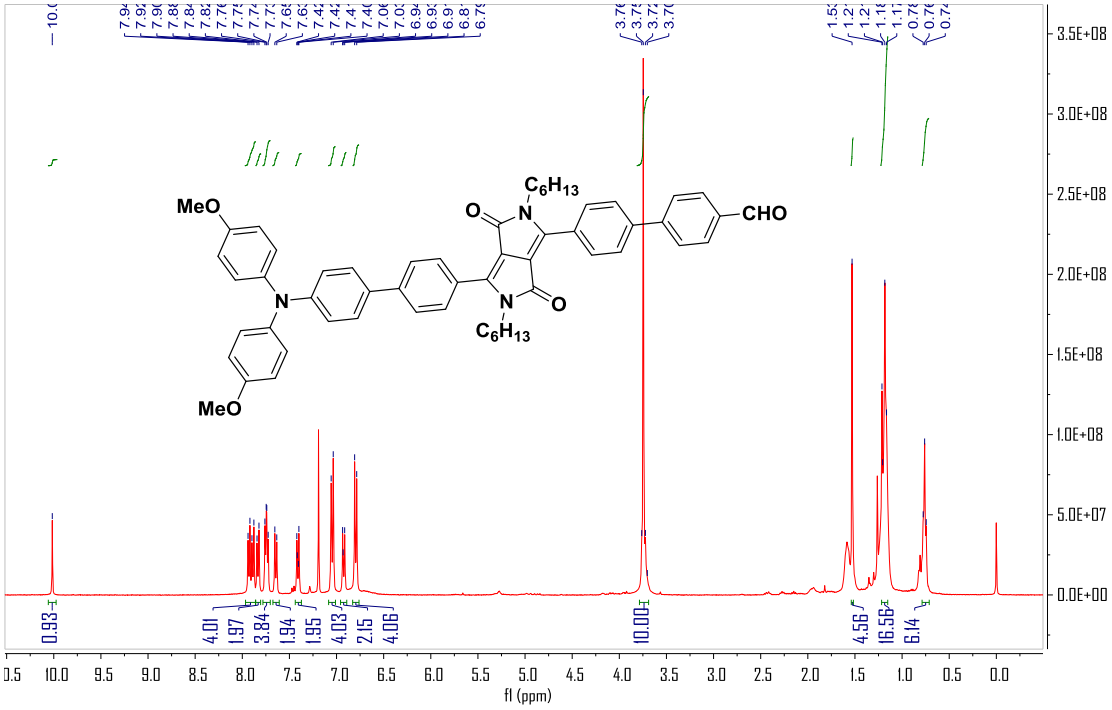

Fig. S10 ^{1}H NMR of compound **5**

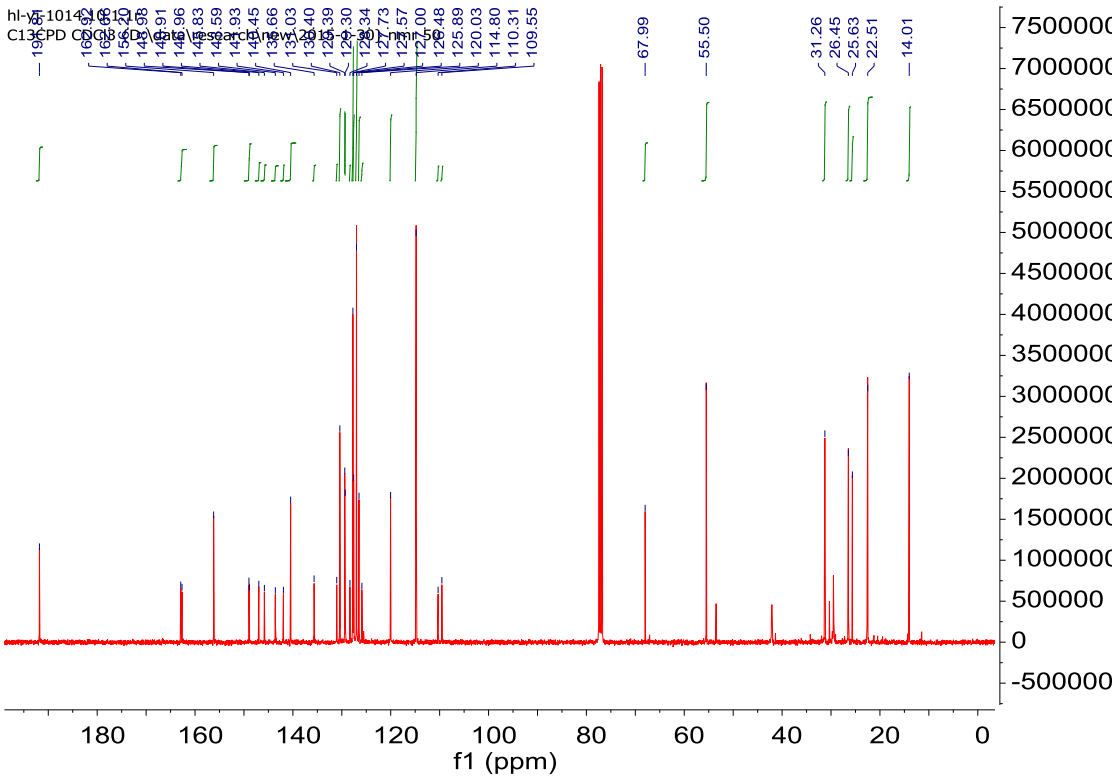

Fig. S11 ^{13}C NMR of compound **5**

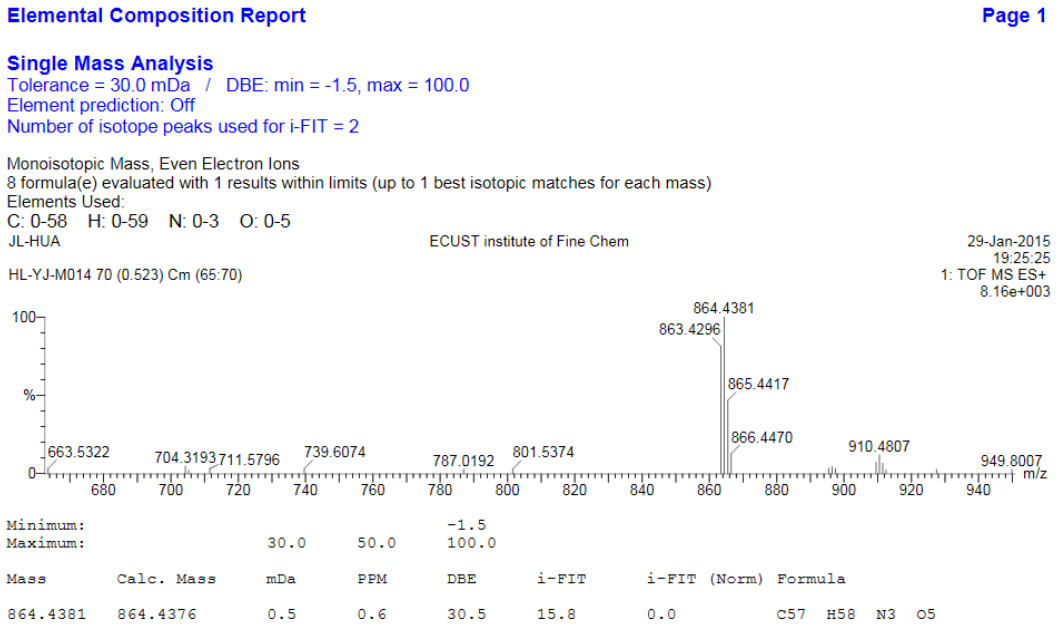

Fig. S12 High-Res ESI-TOF mass spectrum of compound **5**

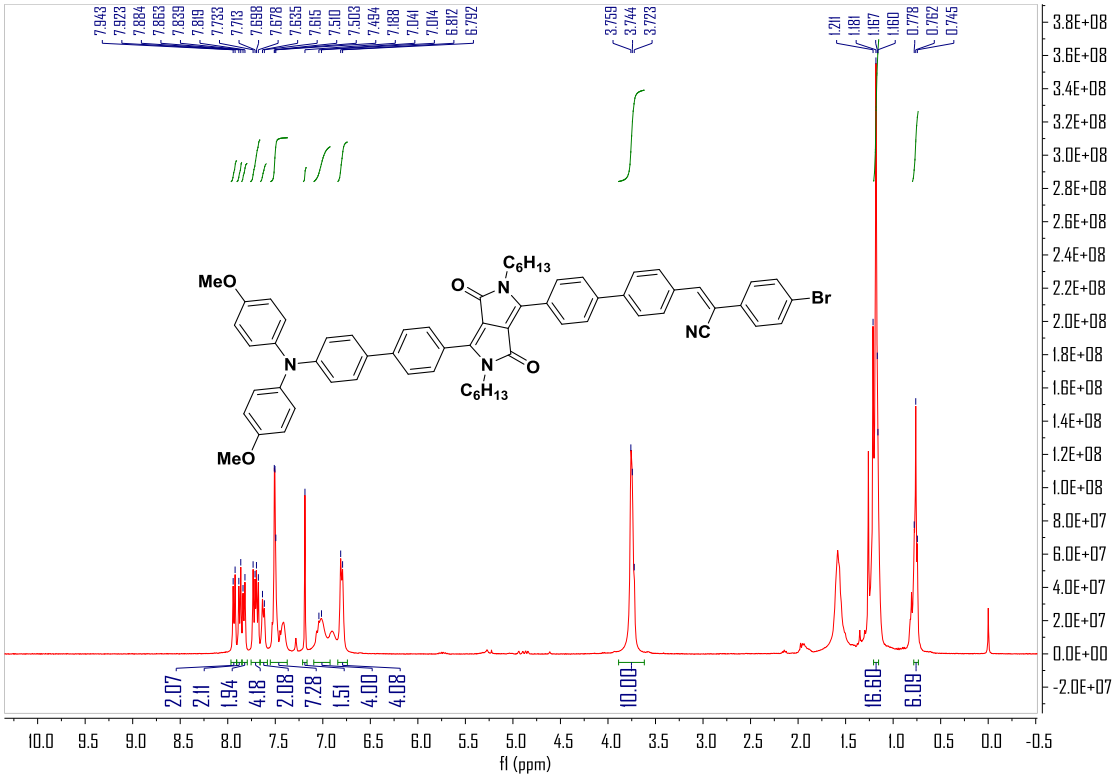

Fig. S13 ^{1}H NMR of compound **6**

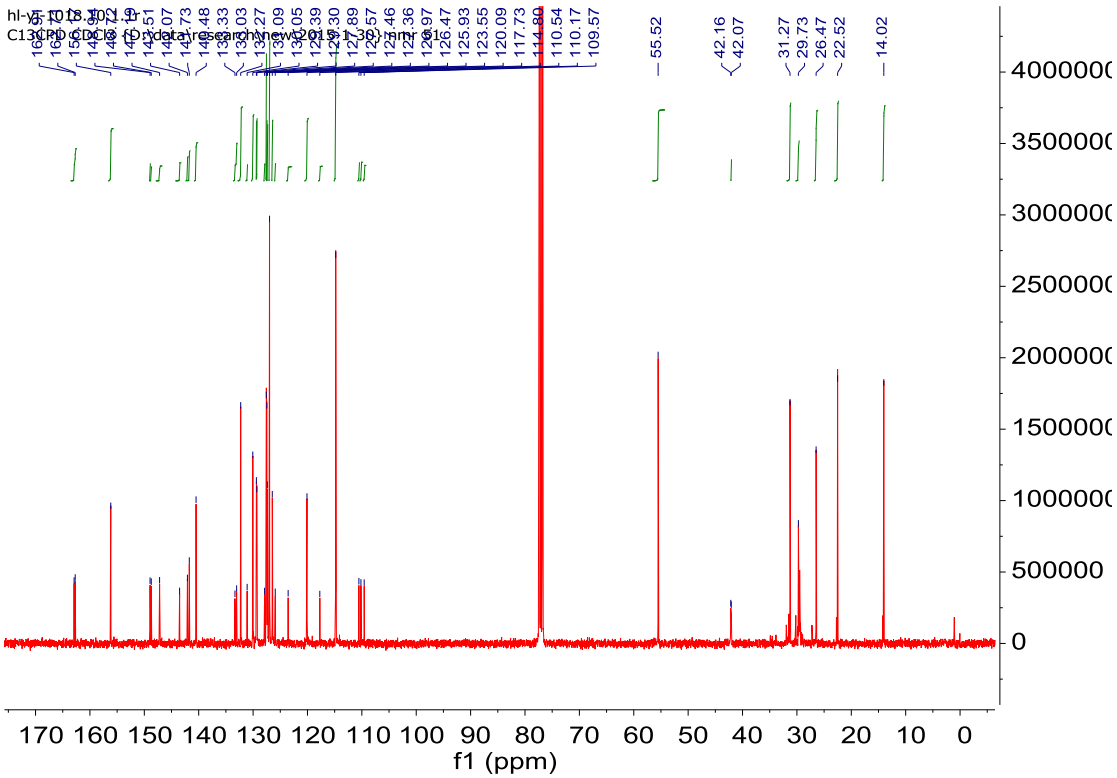

Fig. S14 ^{13}C NMR of compound **6**

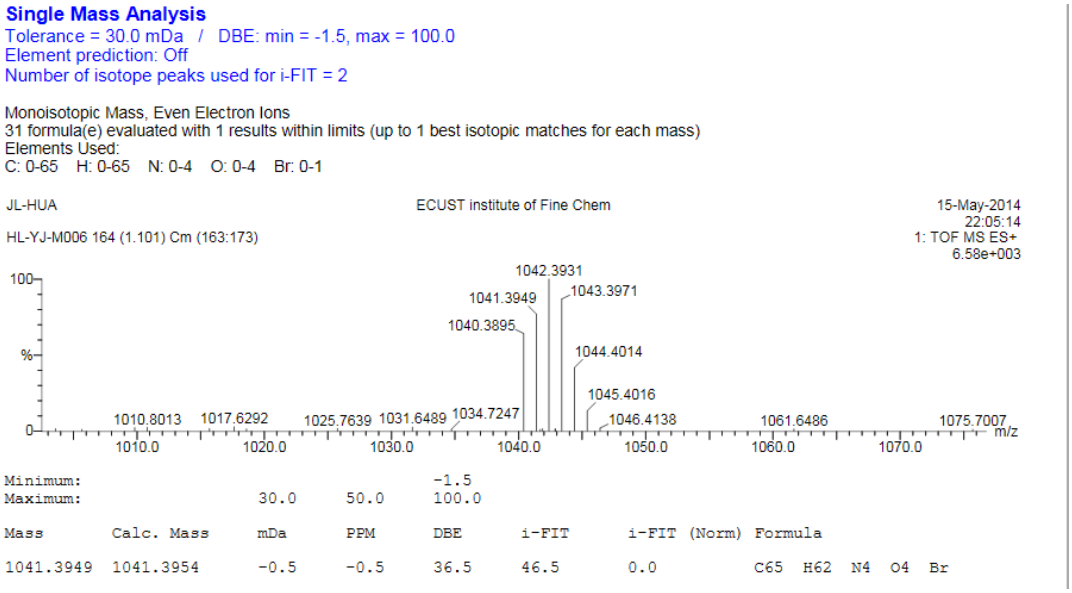

Fig. S15 High-Res ESI-TOF mass spectrum of compound **6**

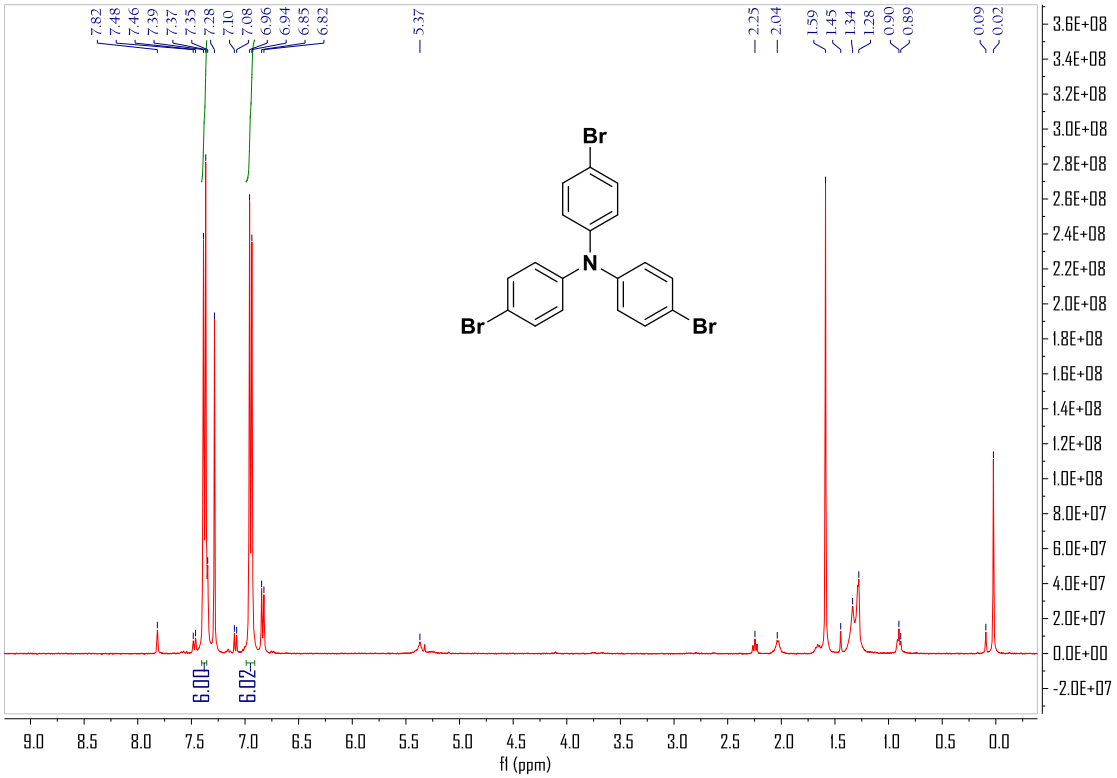

Fig. S16 ^{1}H NMR of compound **8**

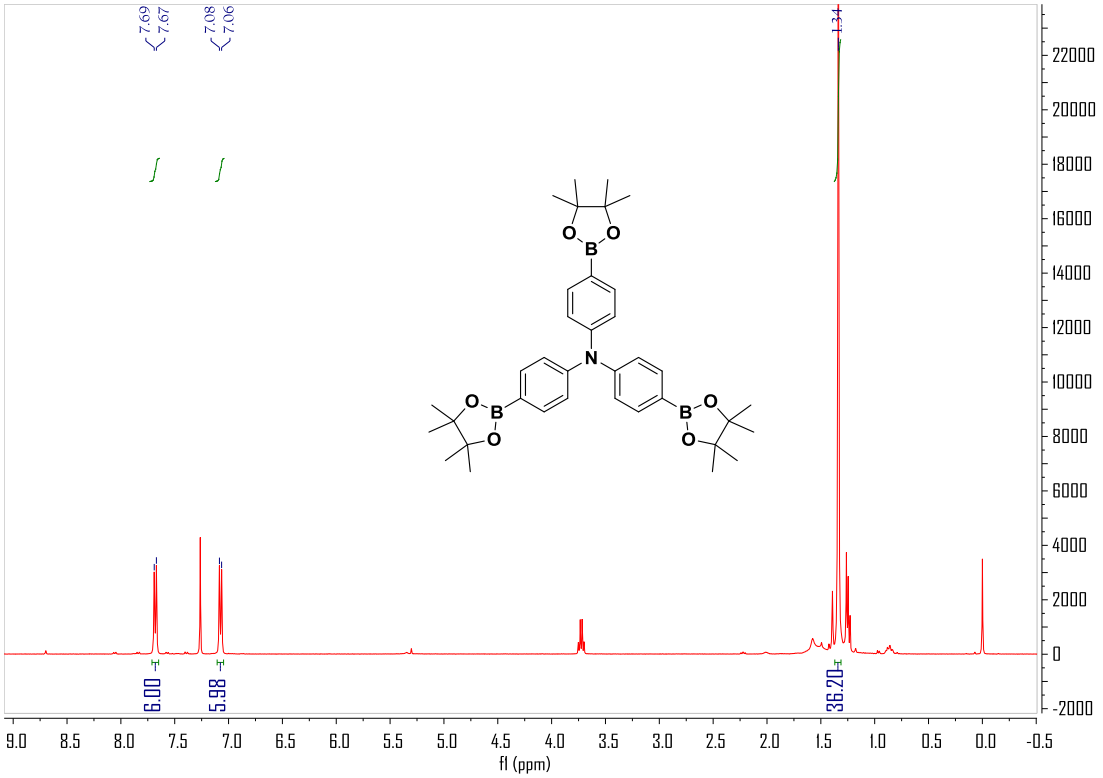

Fig. S17 ^{1}H NMR of compound **9**

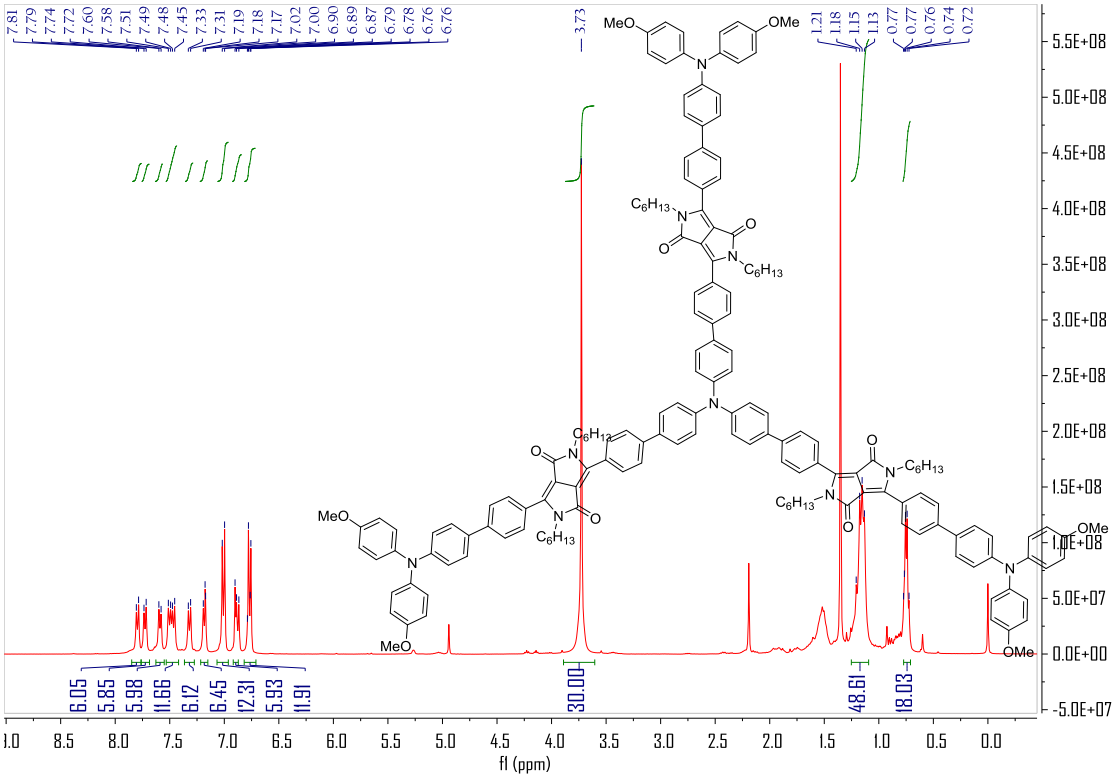

Fig. S18 ^{1}H NMR of compound **YJ-1**

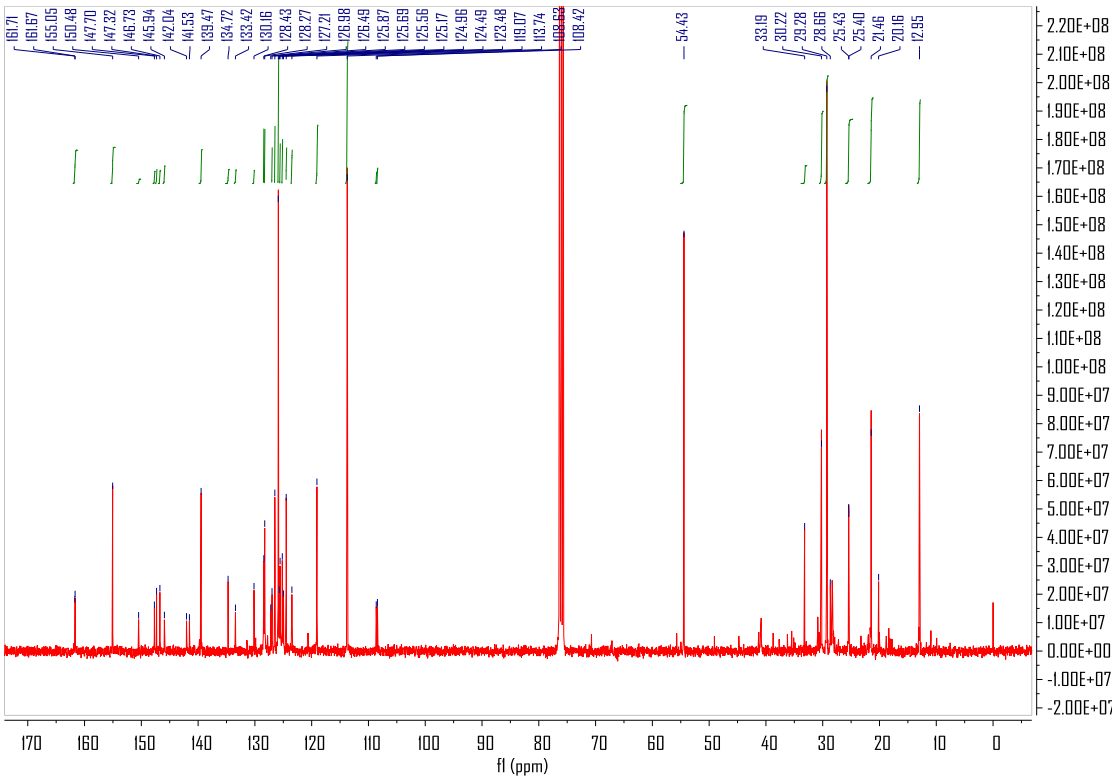

Fig. S19 ^{13}C NMR of compound **YJ-1**

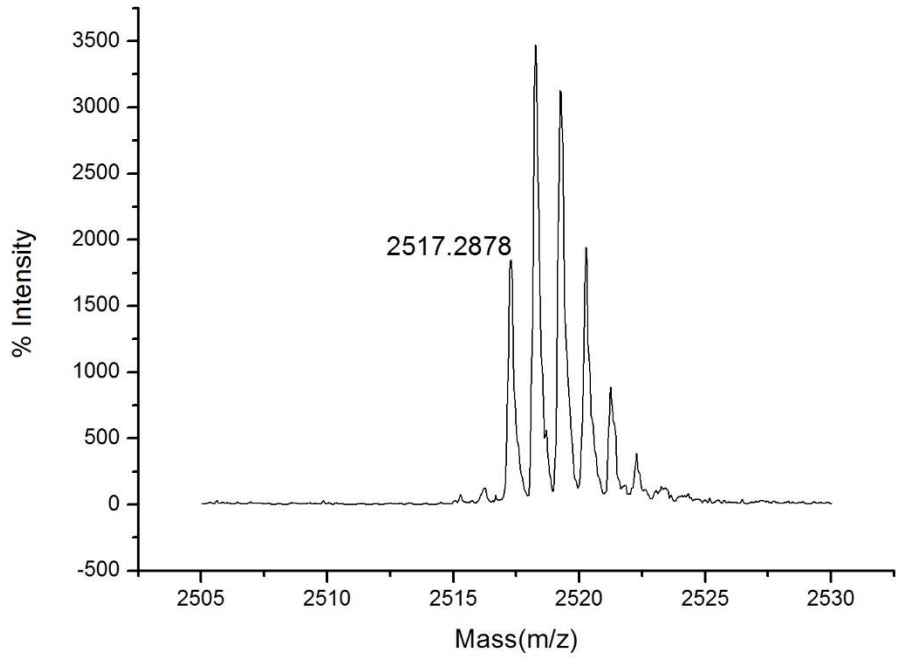

Fig. S20 MALDI-TOF spectrum of compound **YJ-1**

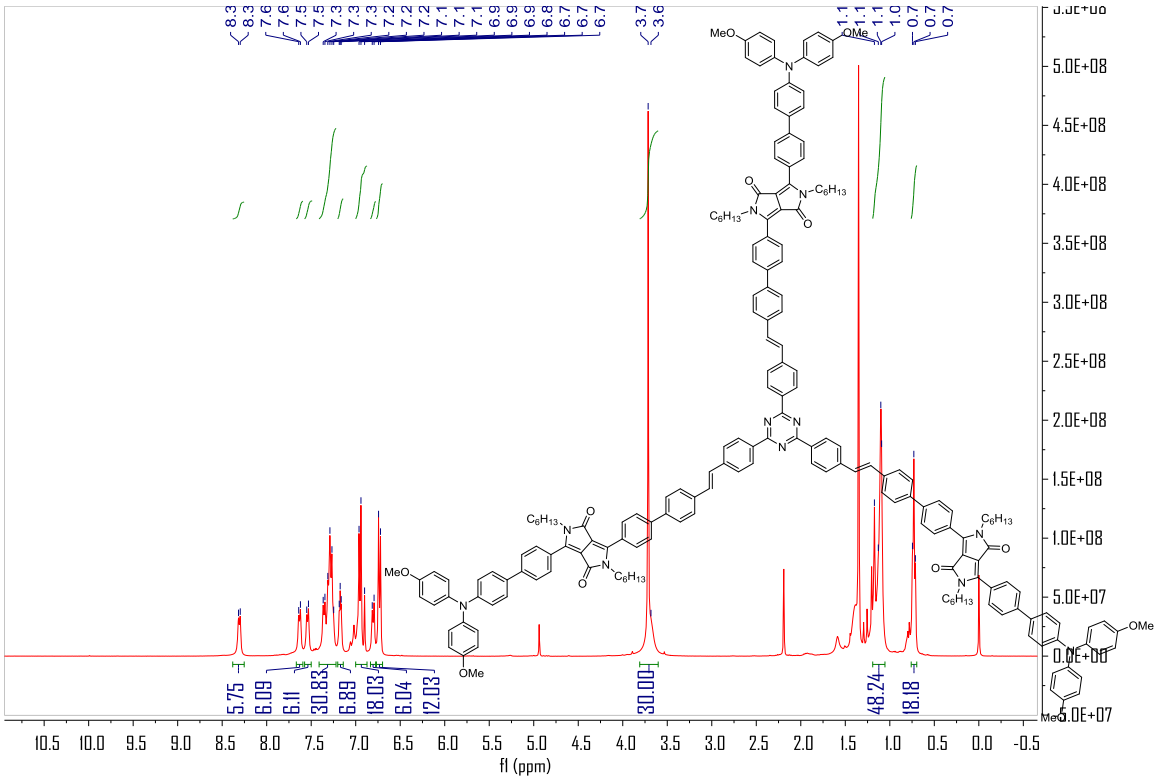

Fig. S21 ^{1}H NMR of compound **YJ-2**

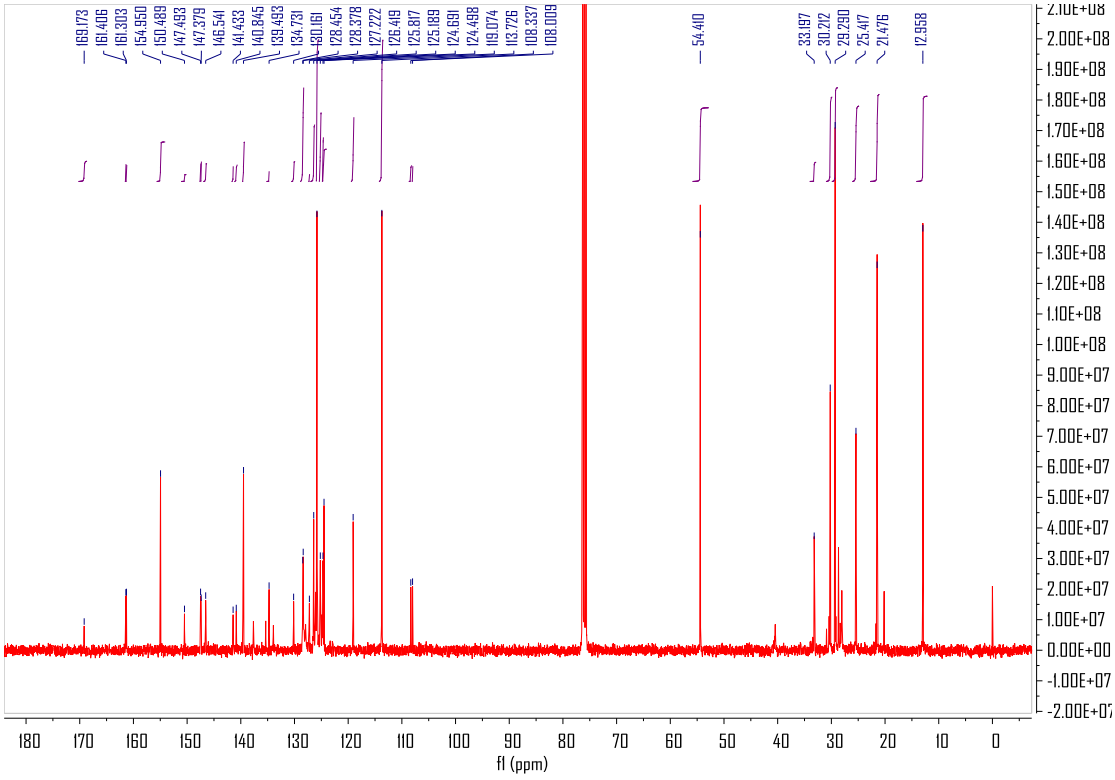

Fig. S22 ^{13}C NMR of compound **YJ-2**

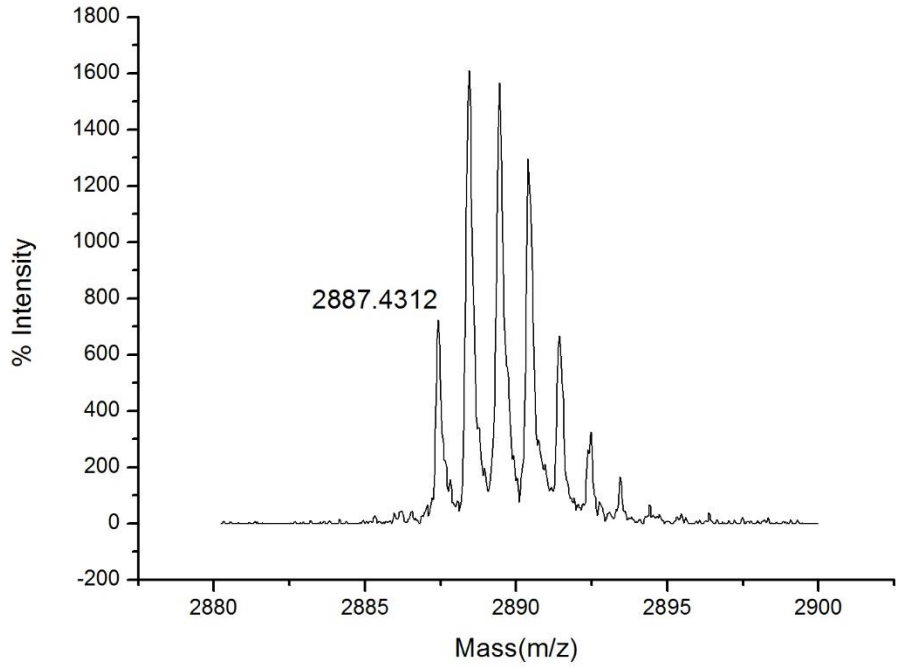

Fig. S23 MALDI-TOF spectrum of compound **YJ-2**

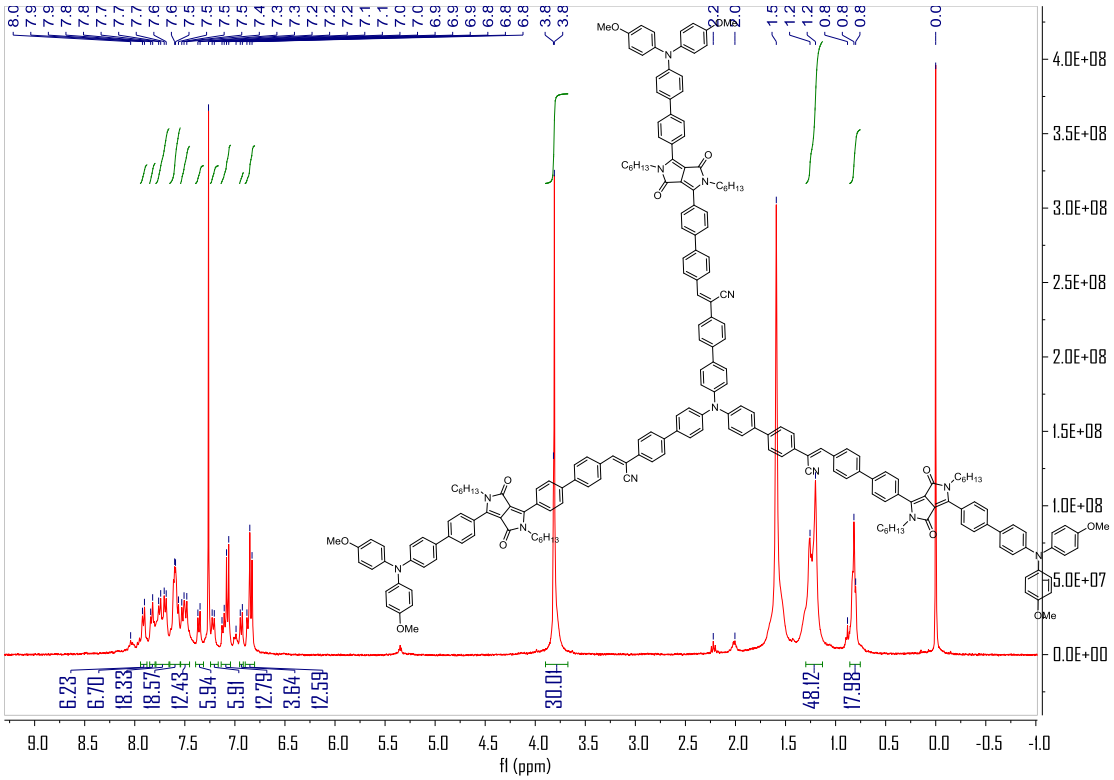

Fig. S24 ^{1}H NMR of compound **YJ-3**

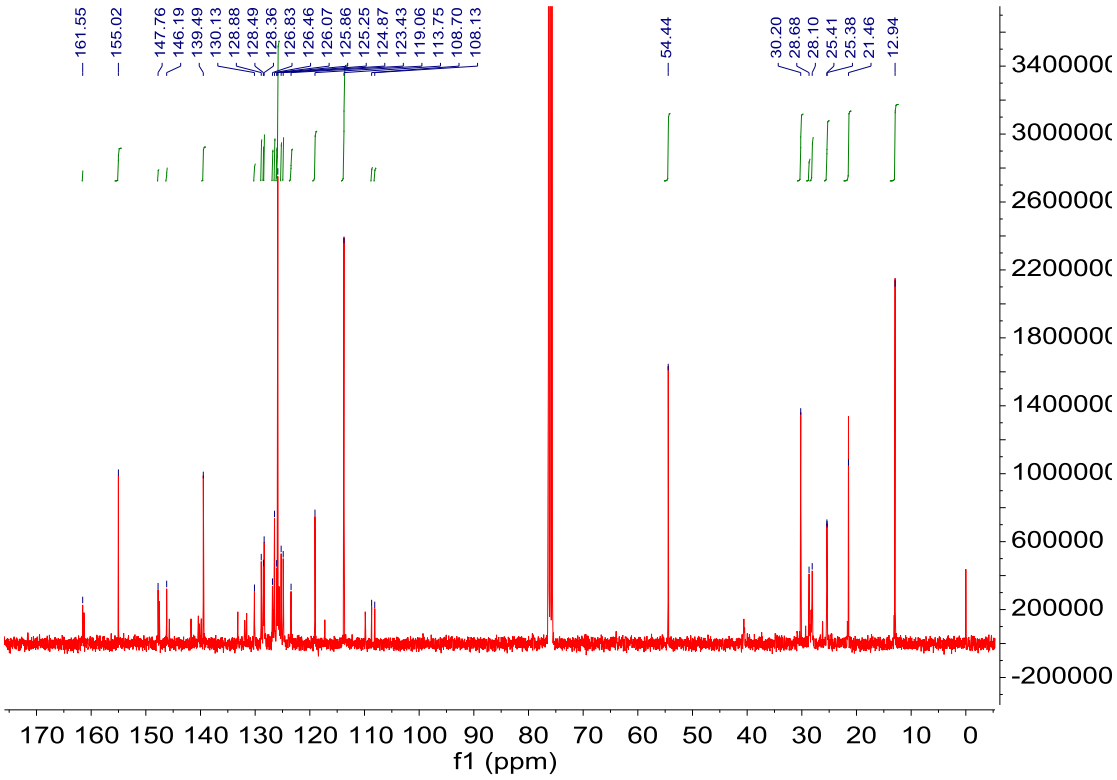

Fig. S25 ^{13}C NMR of compound **YJ-3**

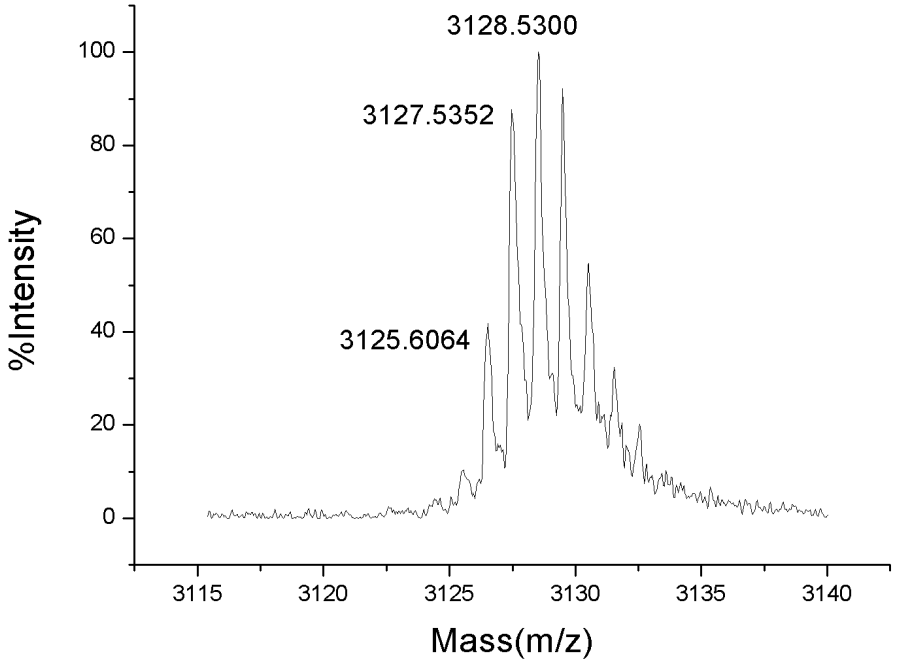

Fig. S26 MALDI-TOF spectrum of compound **YJ-3**