

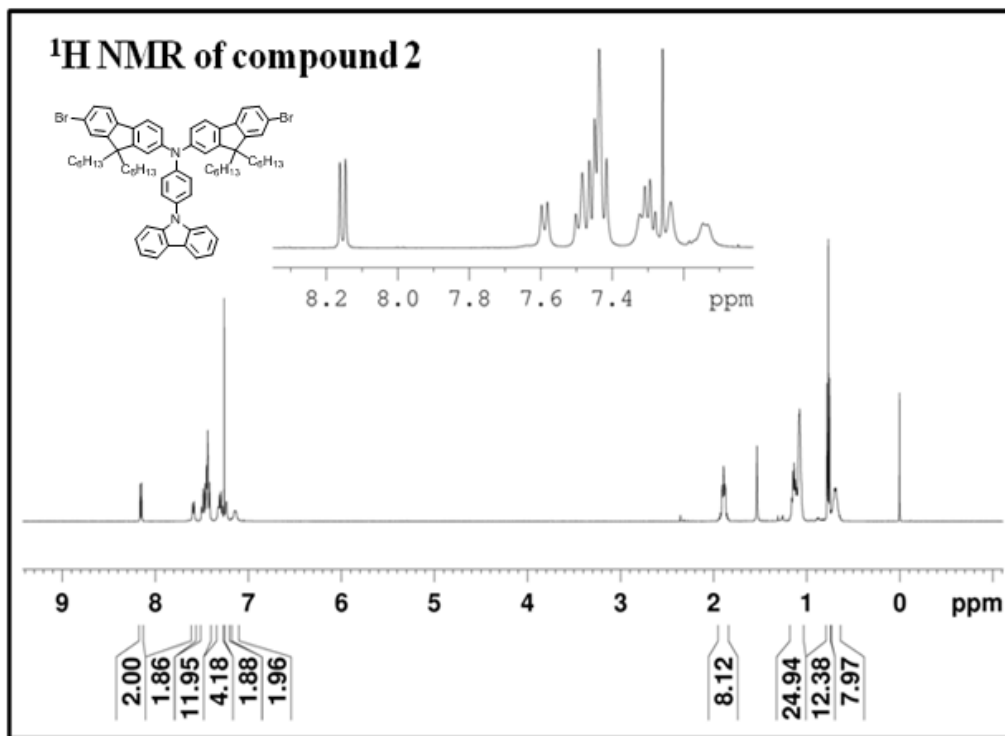
Supporting Information for *New Journal of Chemistry*

Solution-processable bipolar S,S-dixiide-dibenzothiophene chromophores for single-layer organic light-emitting diodes

Sen Zhao, Yuan Xie, Junfei Liang, Ting Guo, Lei Ying*, Hongbin Wu, Wei Yang, Junbiao Peng and Yong Cao

Institute of Polymer Optoelectronic Materials and Devices, State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

E-mail: msleiyi@scut.edu.cn (L.Y.)



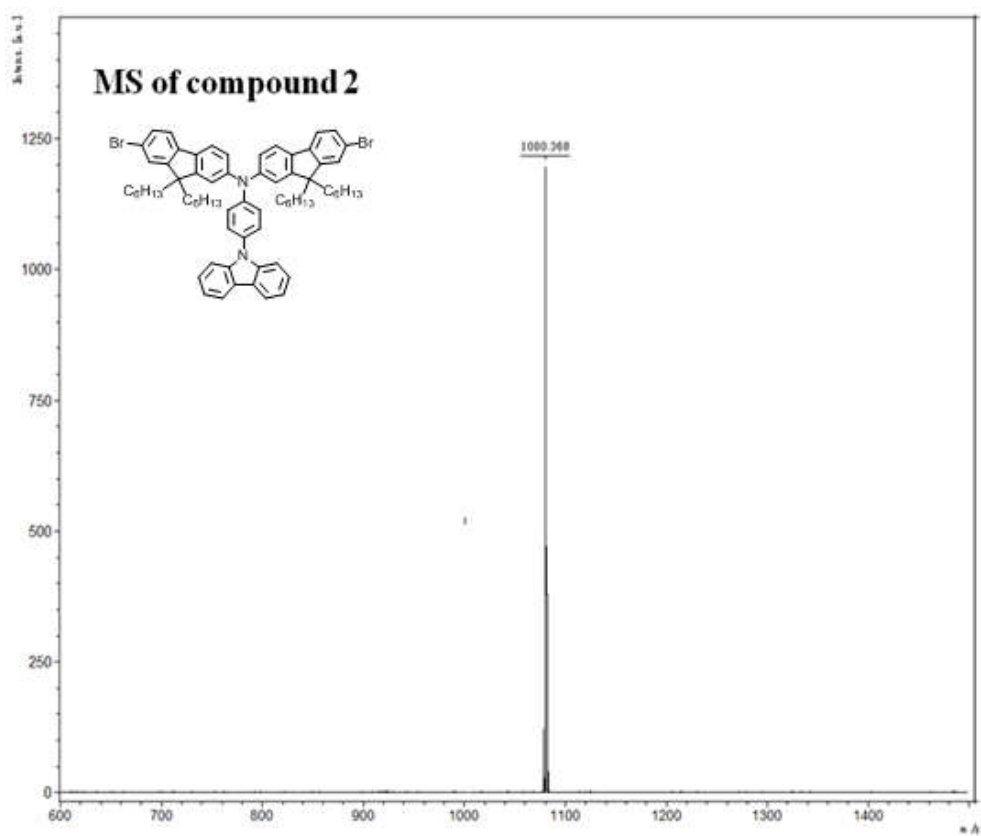
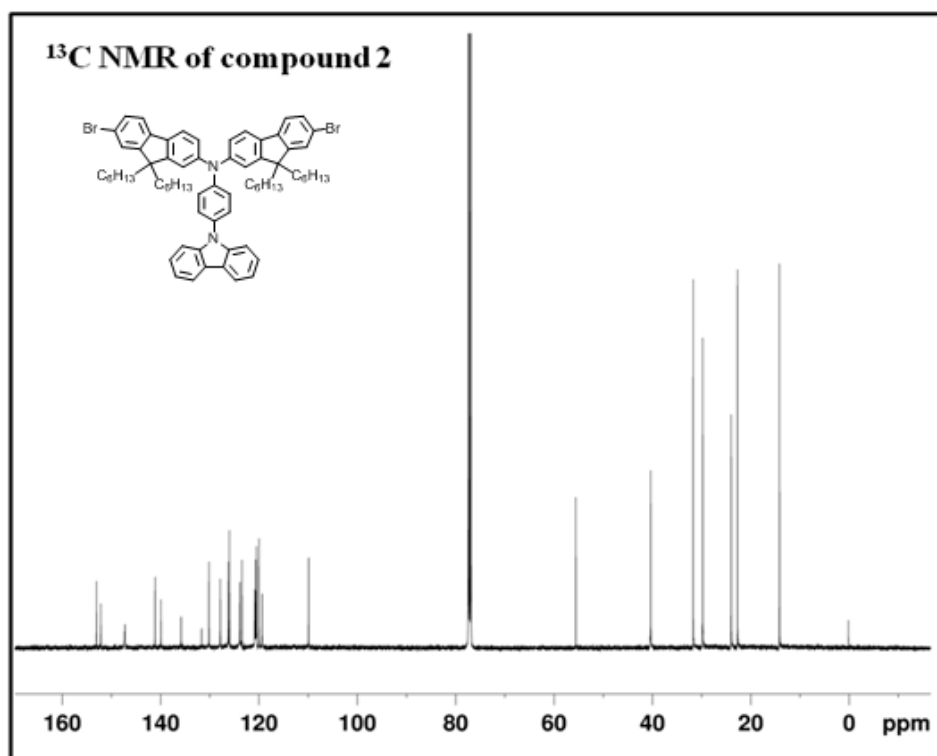
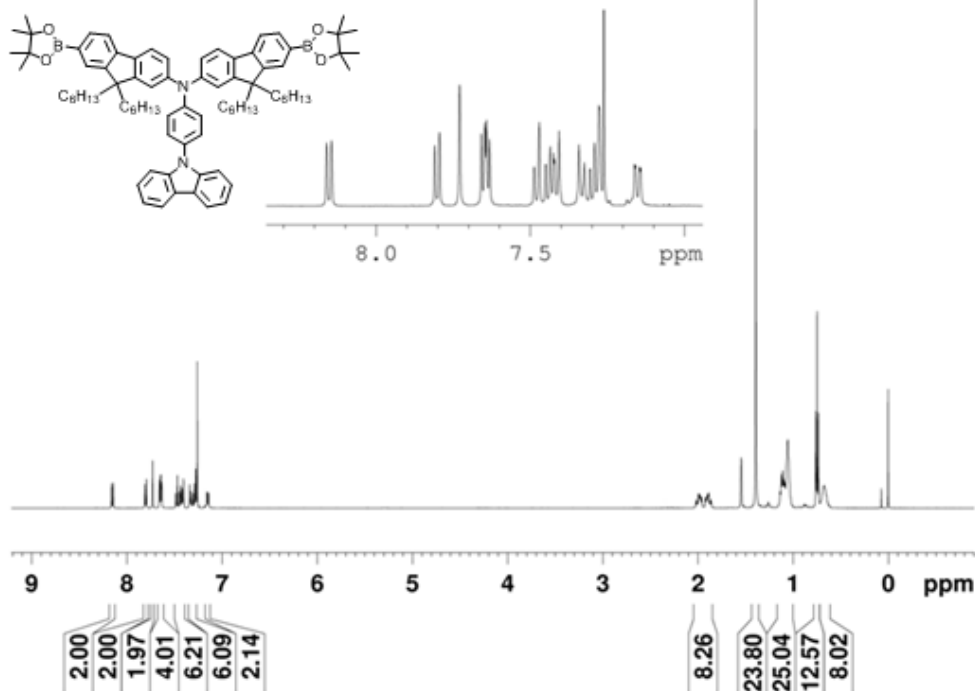
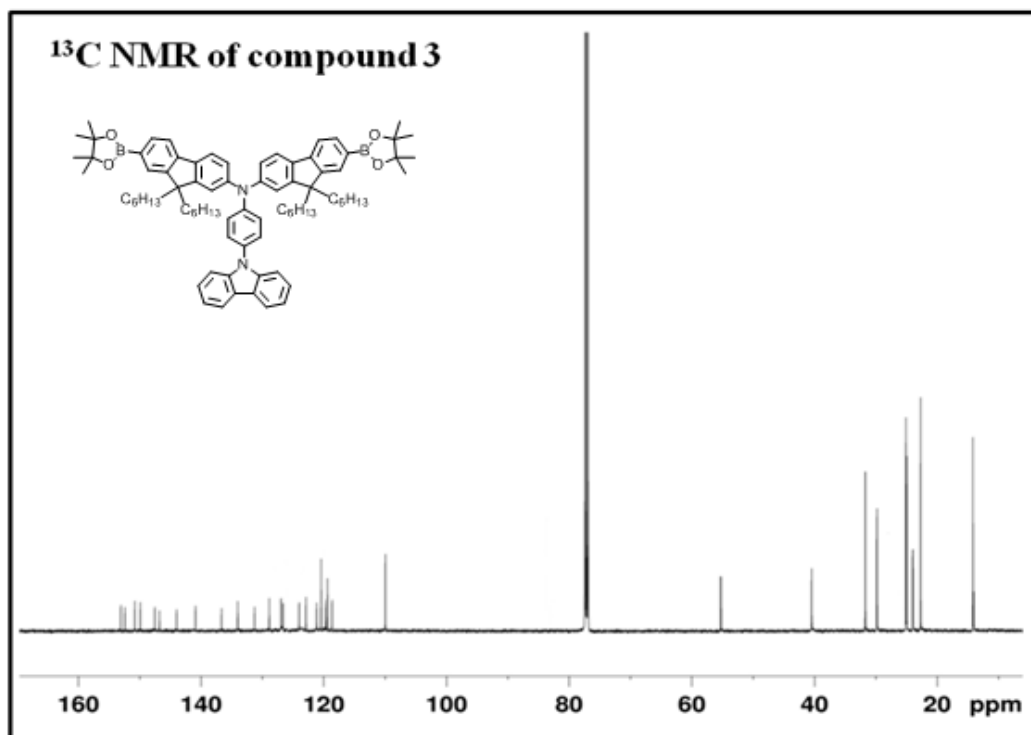


Fig. S1 ¹H NMR, ¹³C NMR and MS spectra of the compound 2

¹H NMR of compound 3



¹³C NMR of compound 3



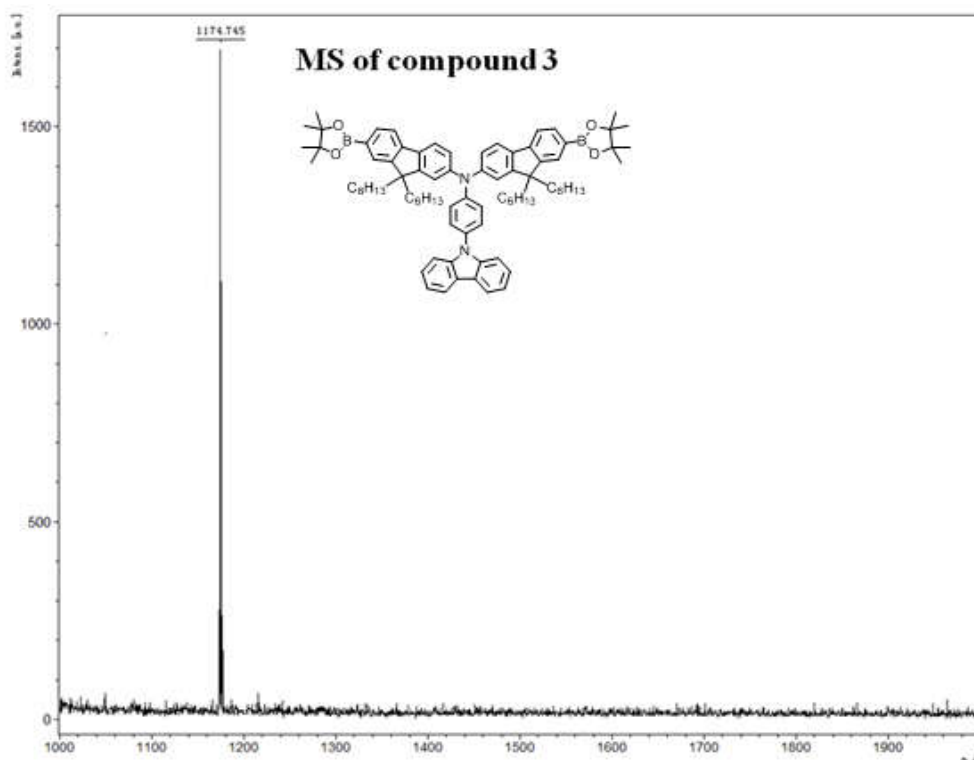
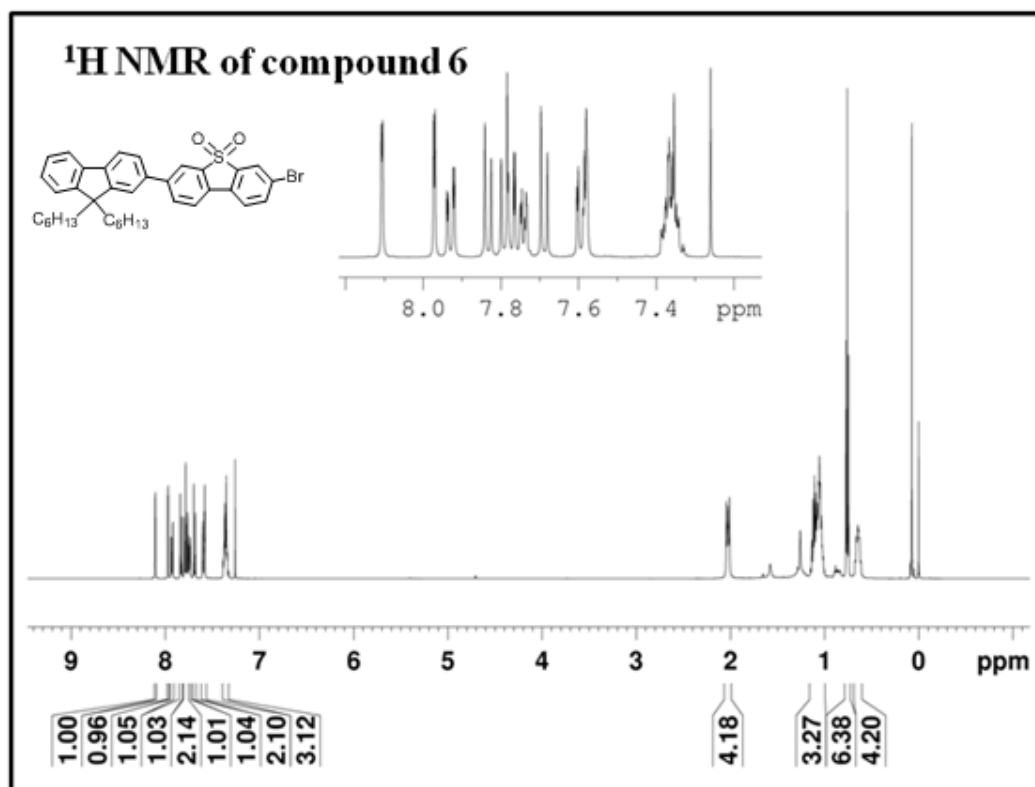


Fig. S2 ^1H NMR, ^{13}C NMR and MS spectra of the compound 3



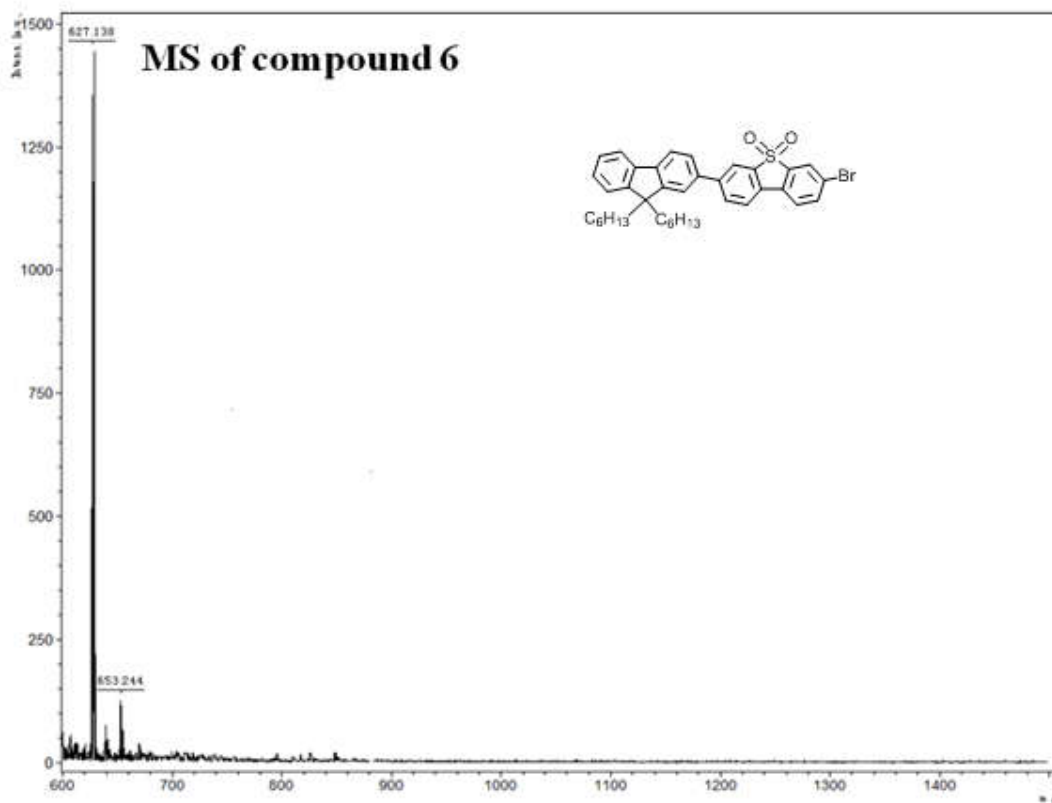
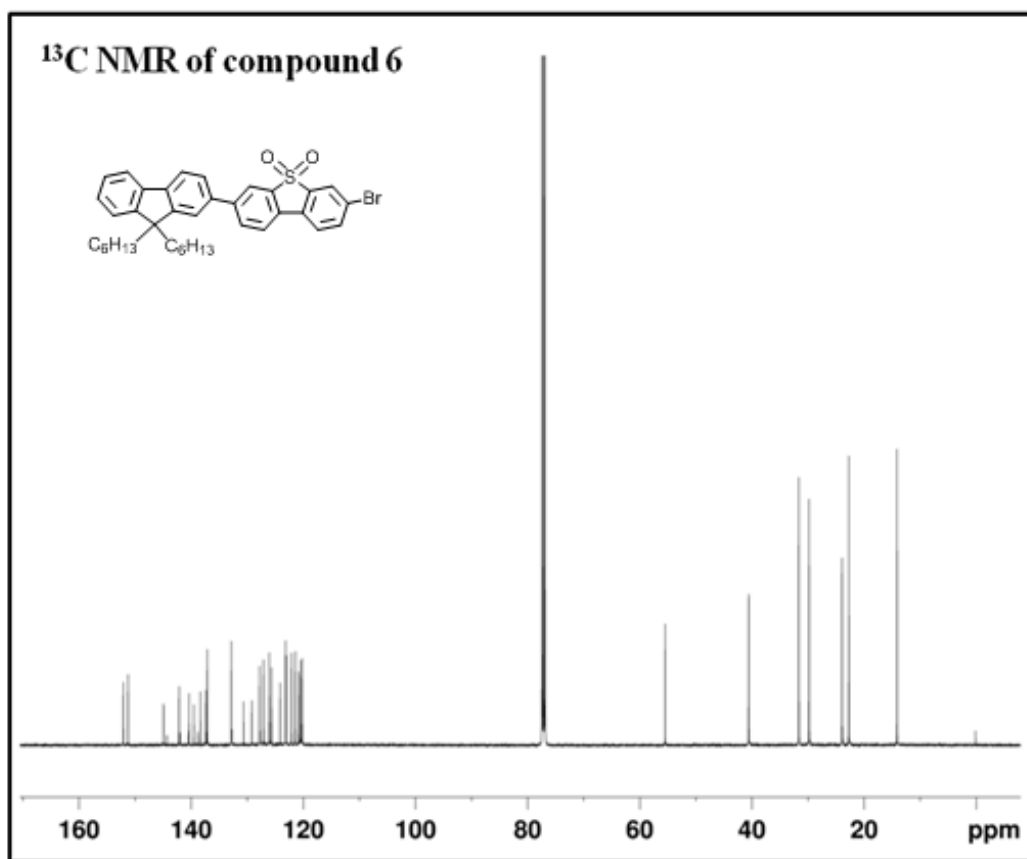
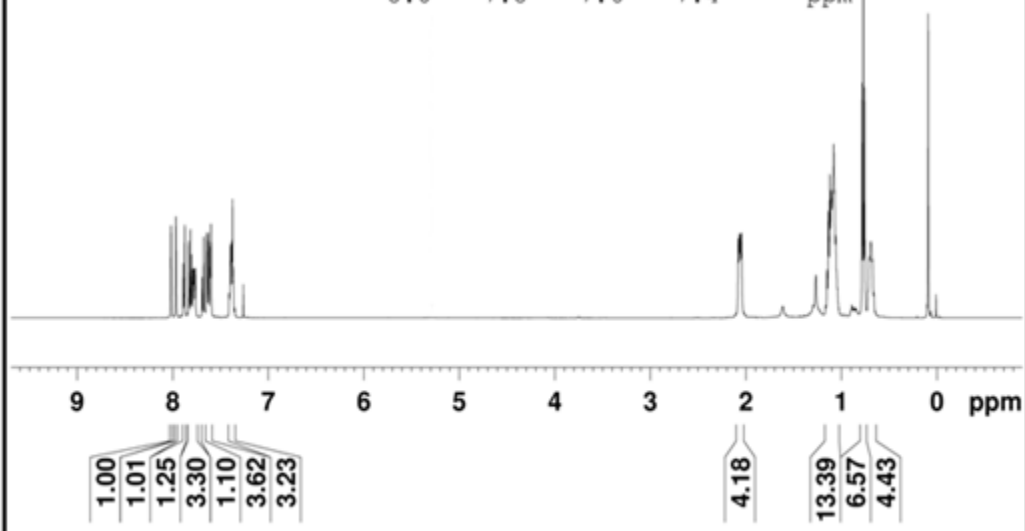
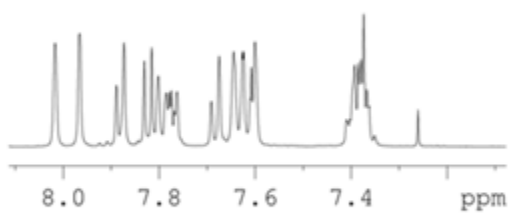
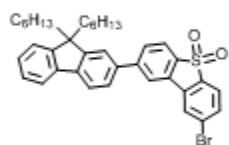
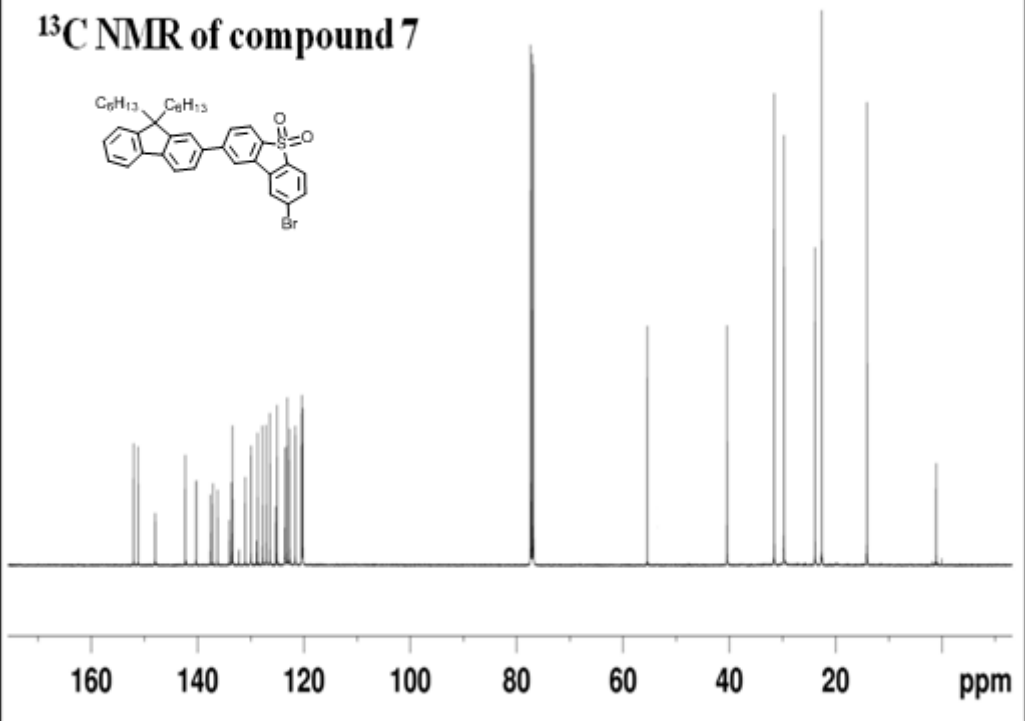
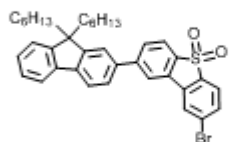


Fig. S3 ¹H NMR, ¹³C NMR and MS spectra of the compound 6

¹H NMR of compound 7



¹³C NMR of compound 7



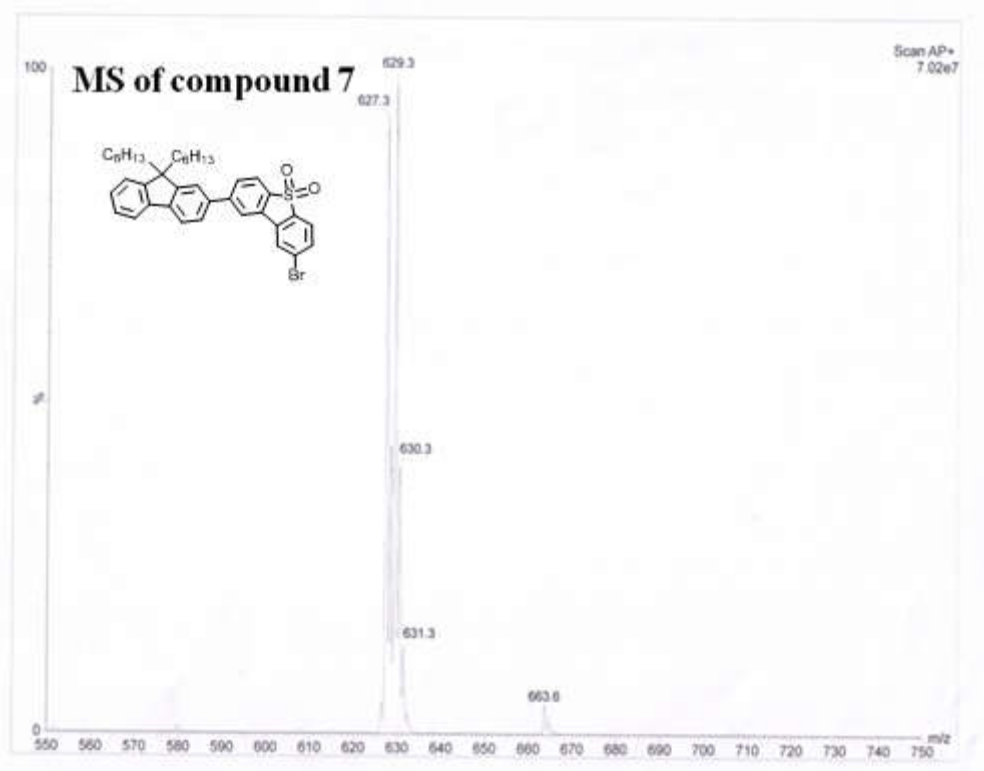
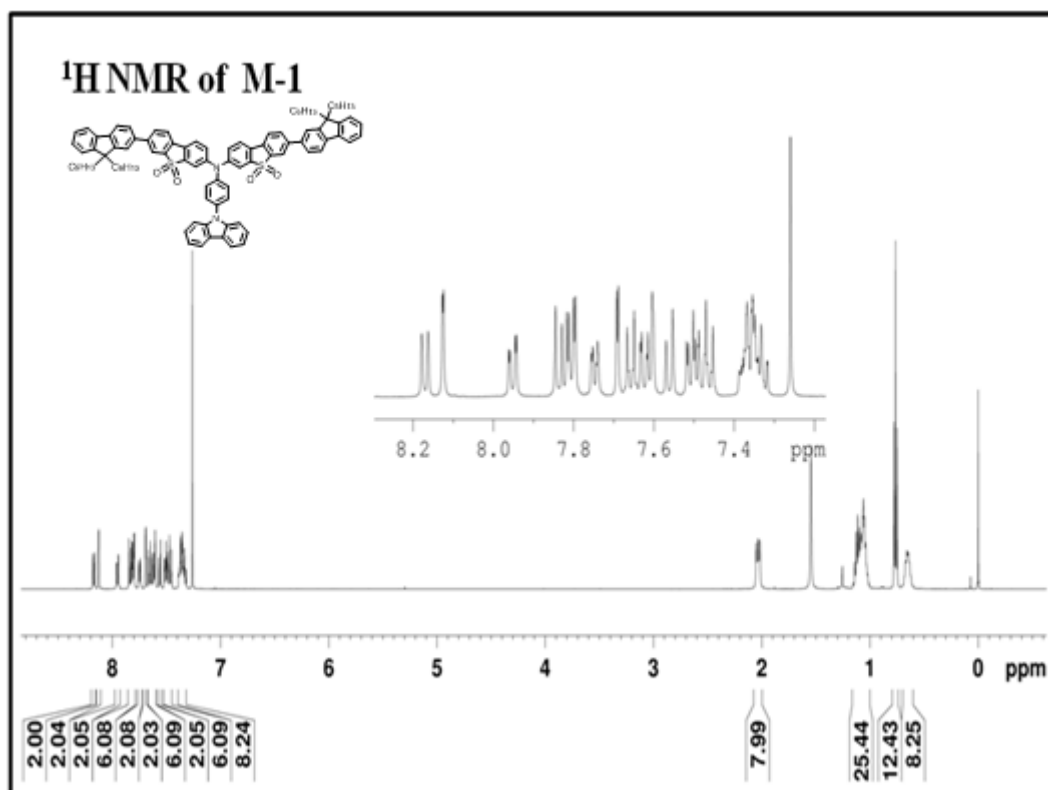


Fig. S4 ^1H NMR, ^{13}C NMR and MS spectra of the compound 7



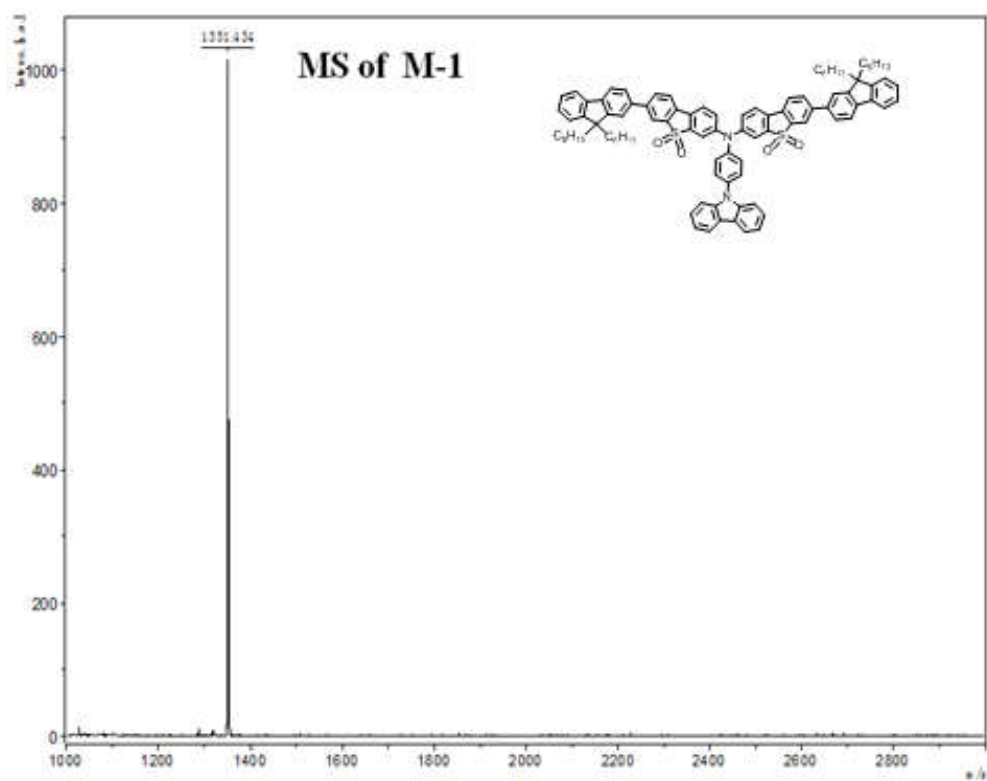
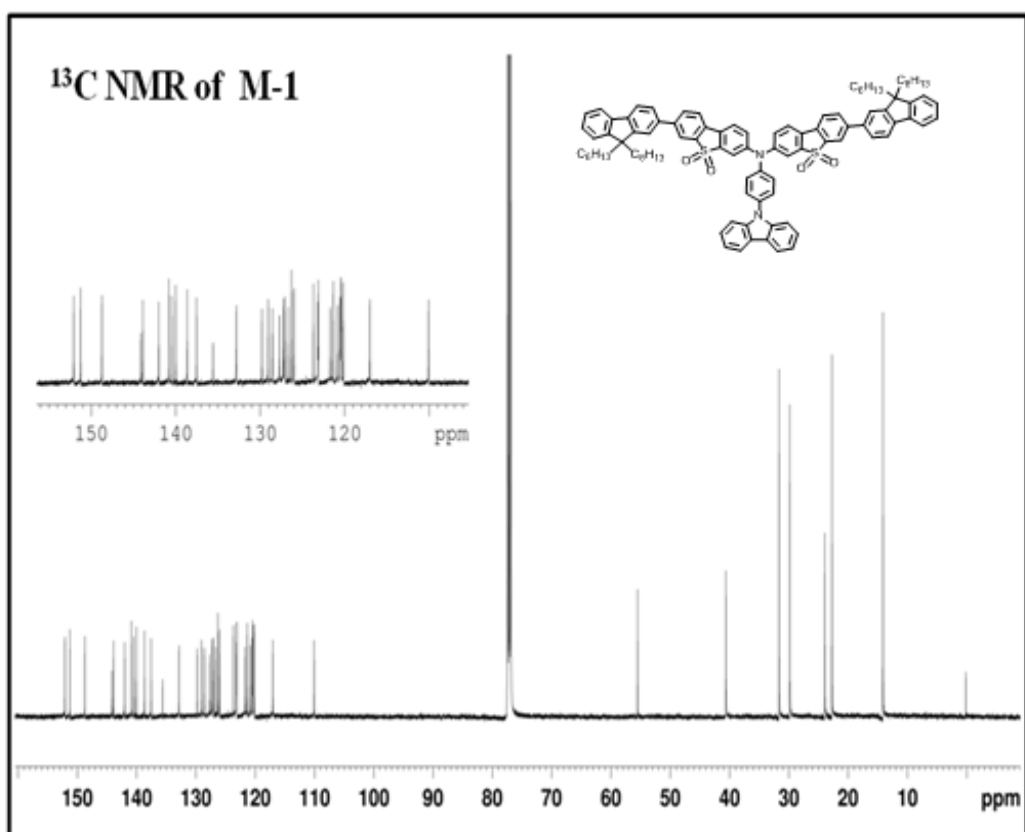
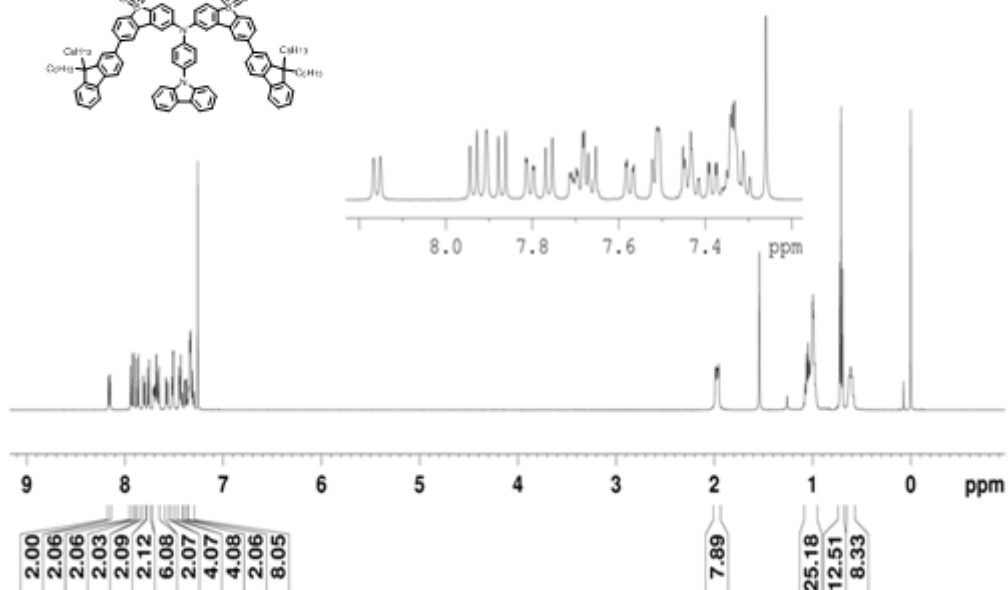
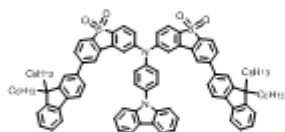
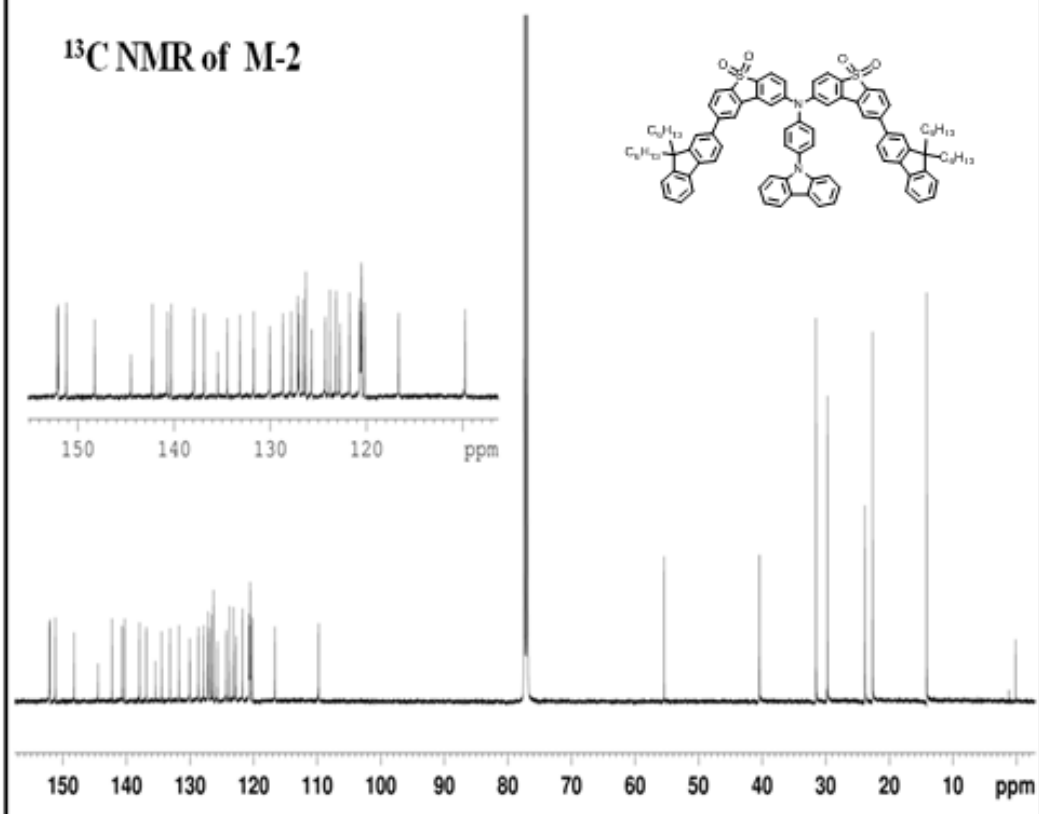
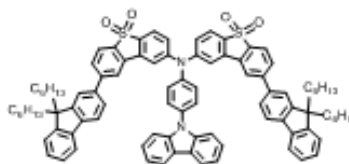


Fig. S5 ^1H NMR, ^{13}C NMR and MS spectra of the compound **M-1**

¹H NMR of M-2



¹³C NMR of M-2



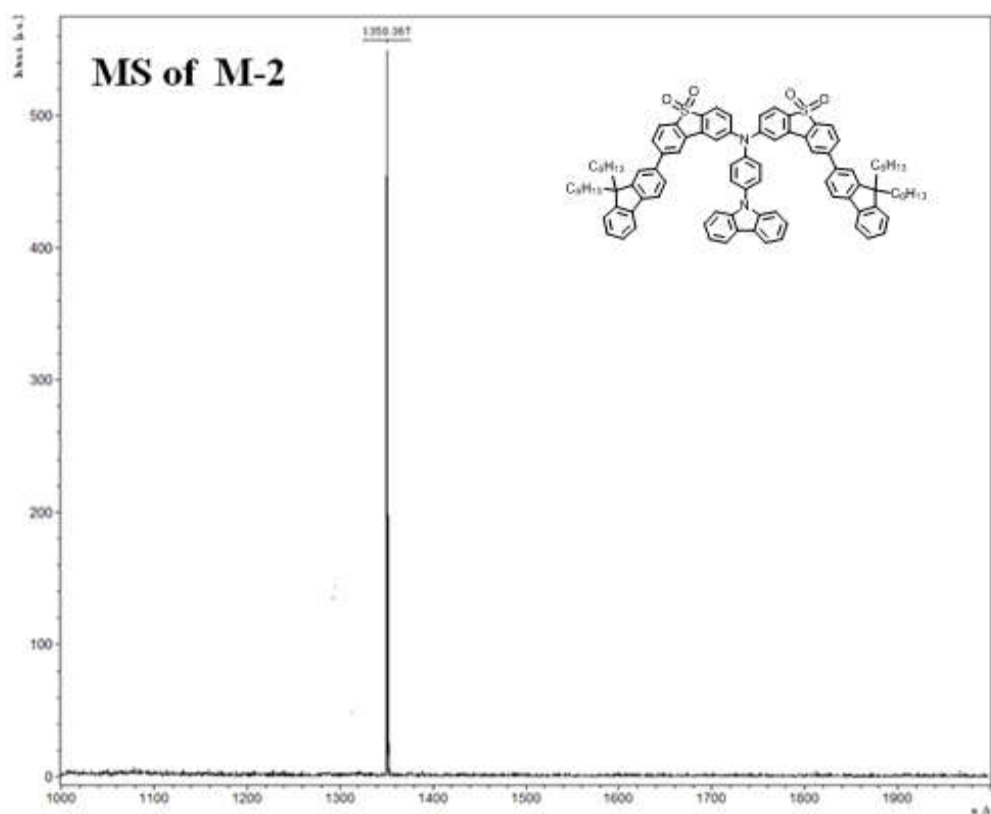
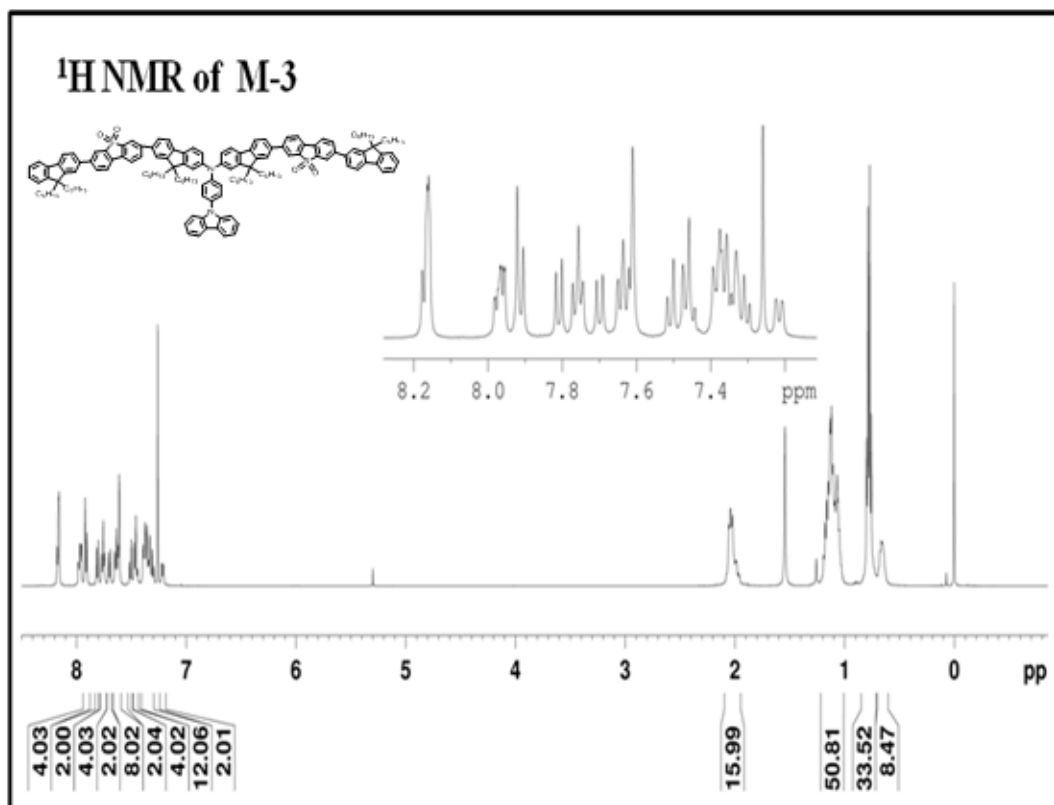


Fig. S6 ^1H NMR, ^{13}C NMR and MS spectra of the compound **M-2**



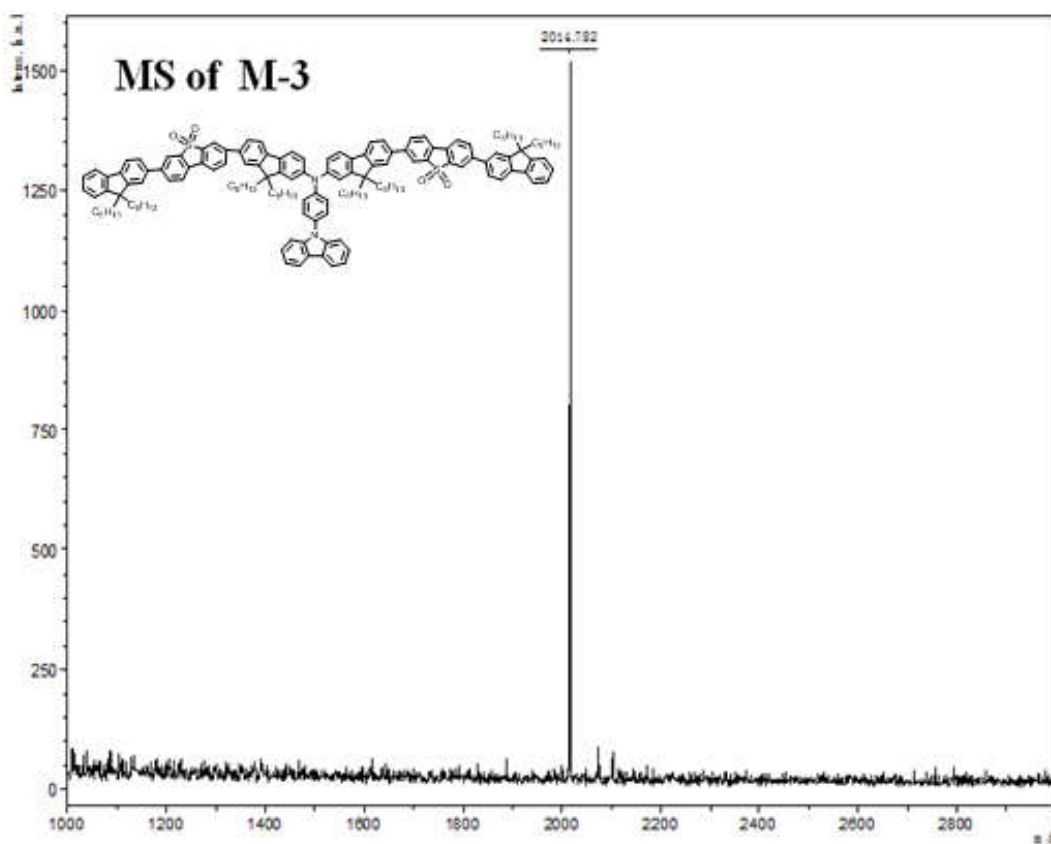
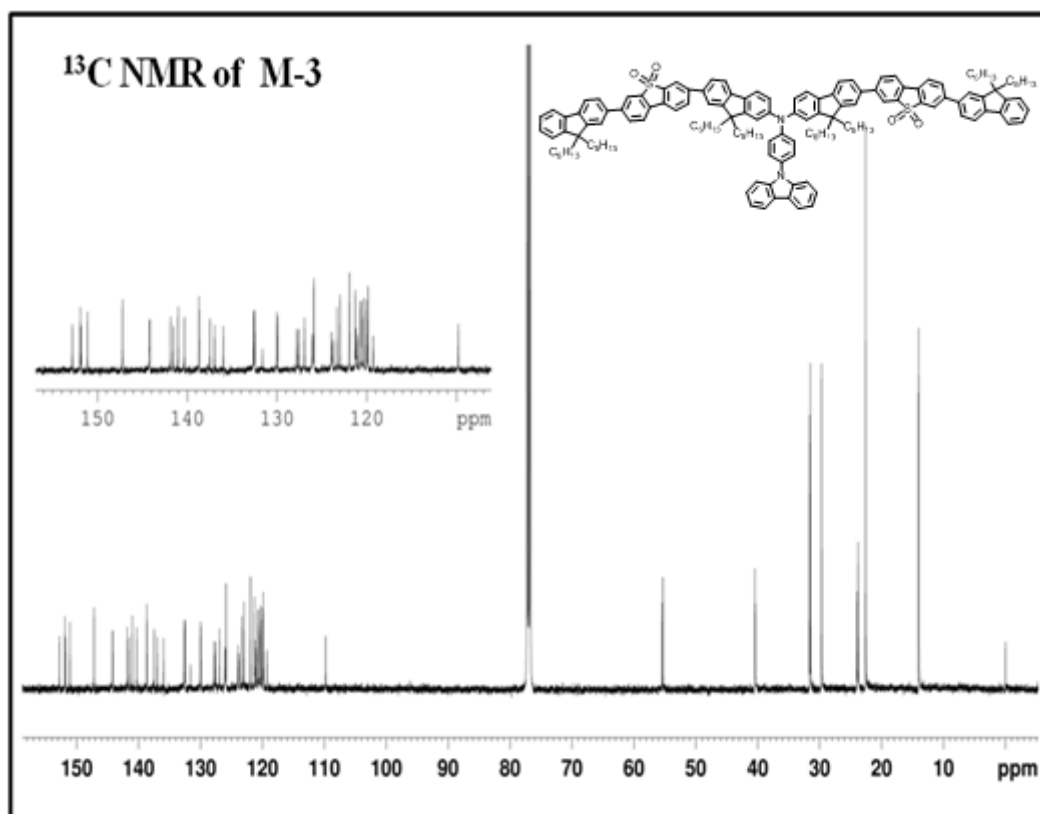
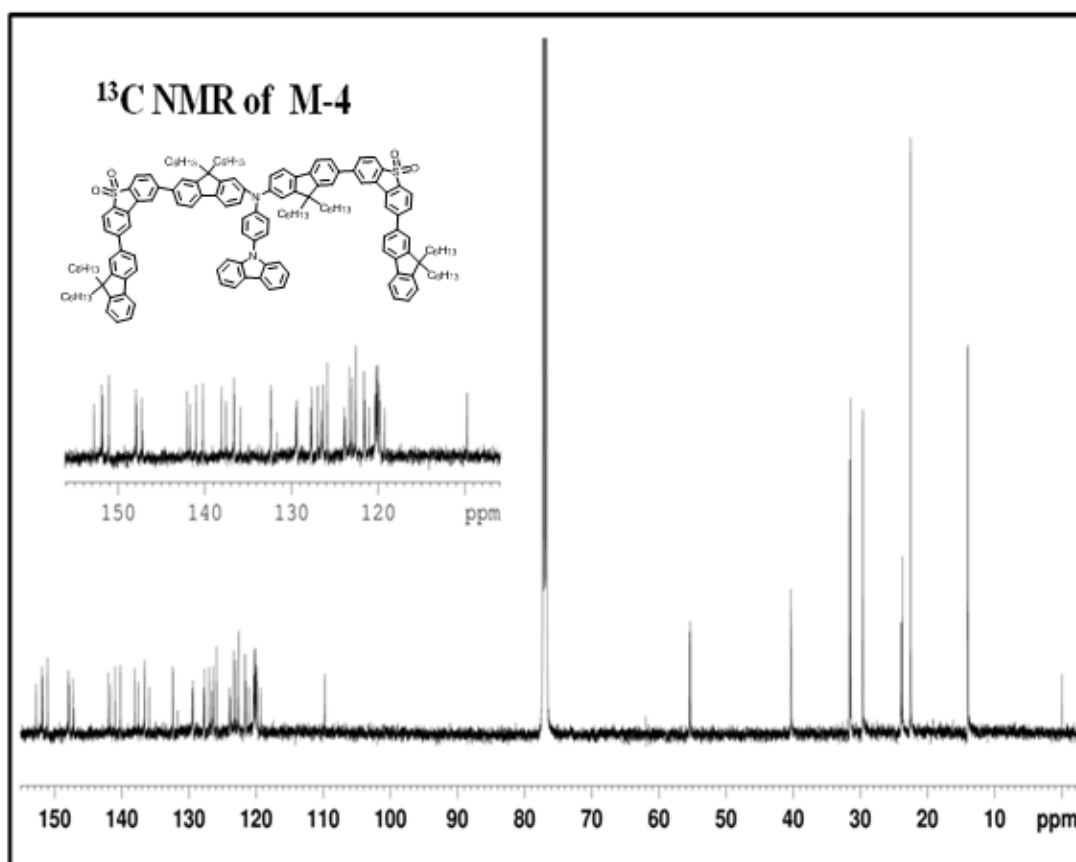
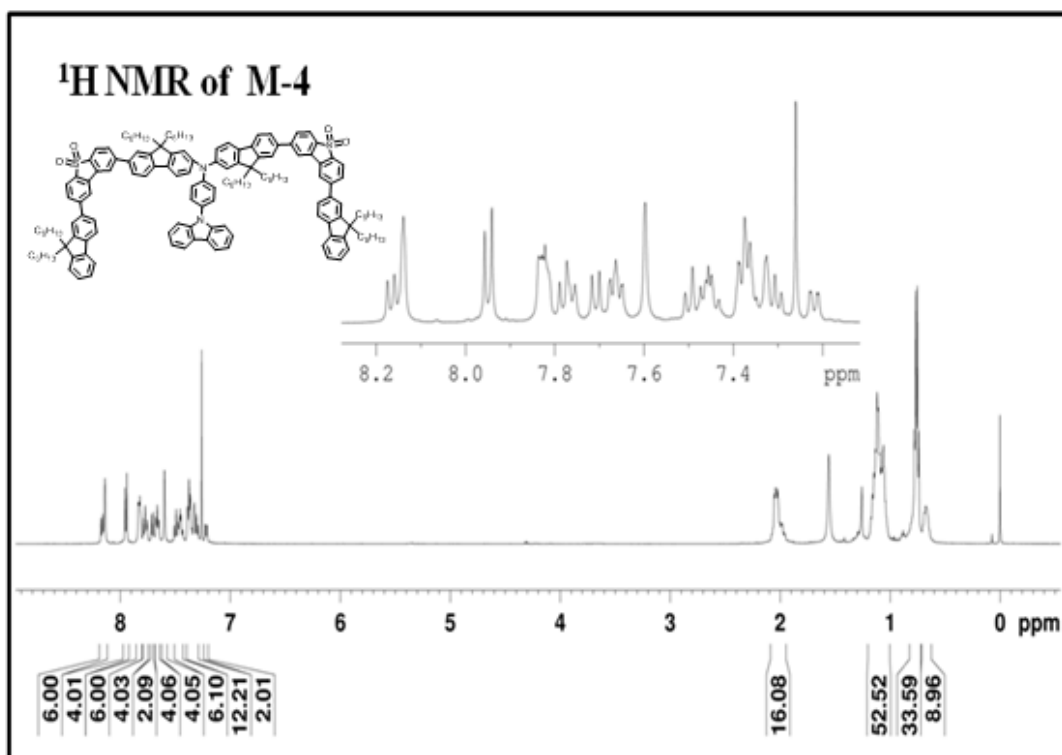


Fig. S7 ¹H NMR, ¹³C NMR and MS spectra of the compound M-3



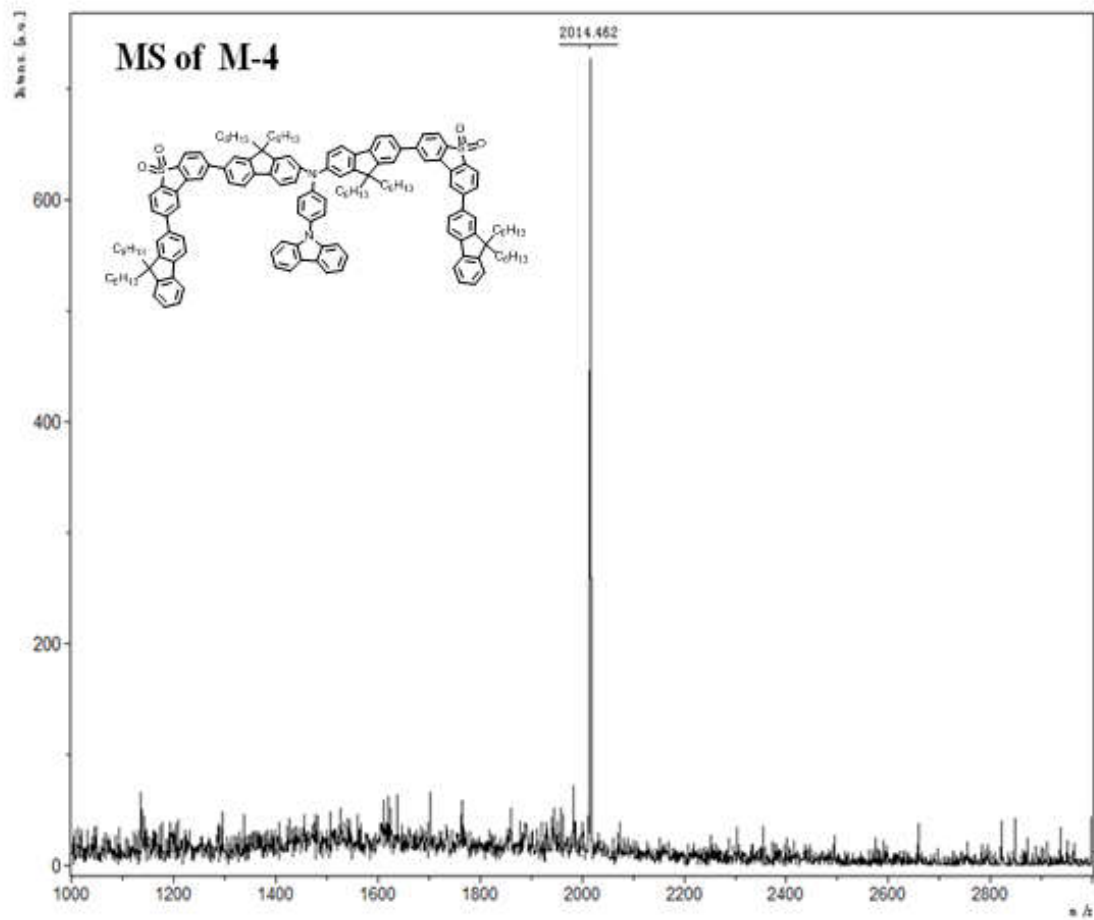


Fig. S8 ^1H NMR, ^{13}C NMR and MS spectra of the compound **M-4**

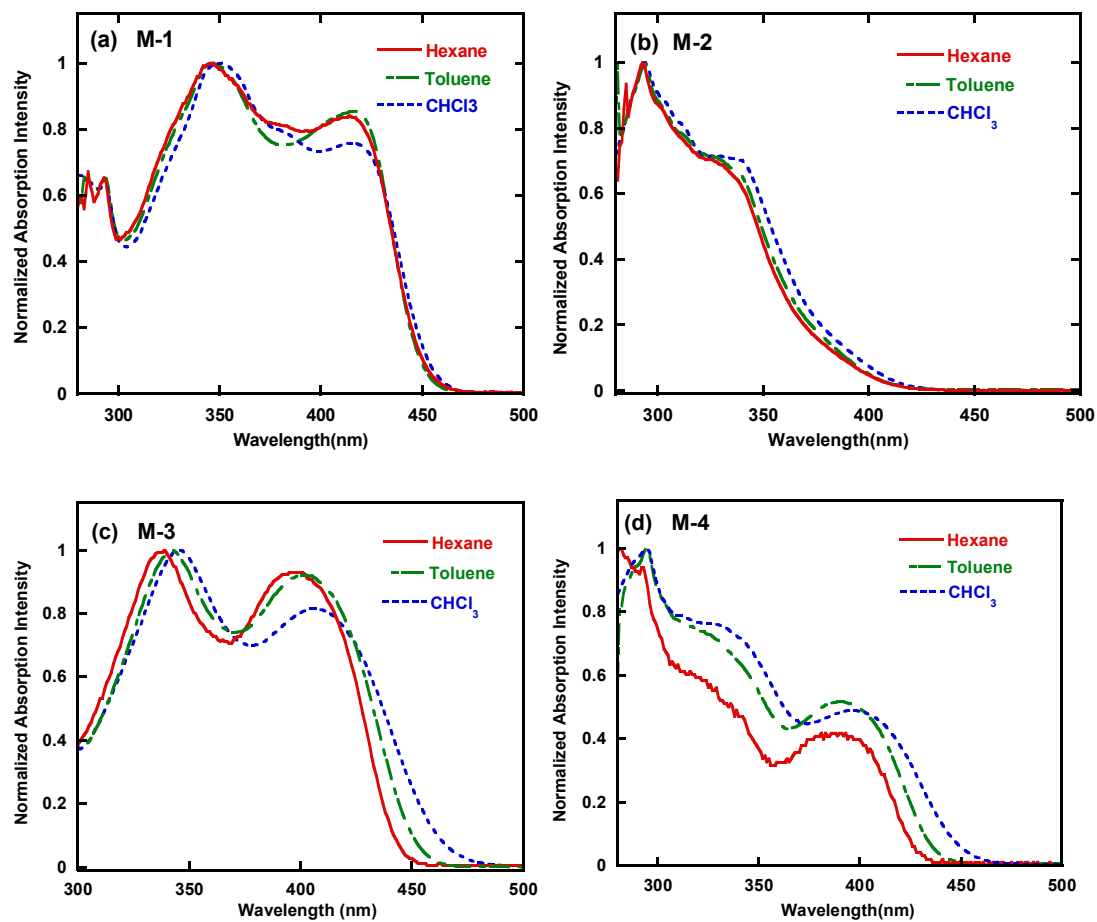


Fig. S9 UV-Vis absorption spectra of compounds in different solutions.

Table S1 E_T and Stokes shift values for compounds in solution.

compound	$E_T(30)$ (Kcal/mol)			Stokes shift (cm^{-1})		
	Hex	Tol	CHCl_3	Hex	Tol	CHCl_3
	3					
M-1	31.0	33.9	39.1	1369	2463	3589
M-2	31.0	33.9	39.1	6232	7784	9553
M-3	31.0	33.9	39.1	2959	3508	5691
M-4	31.0	33.9	39.1	2517	3452	5985