

Carborane Polyimides, Synthesis and Characterization

Tao Xing,* Yuhong Huang, Kai Zhang and Juying Wu

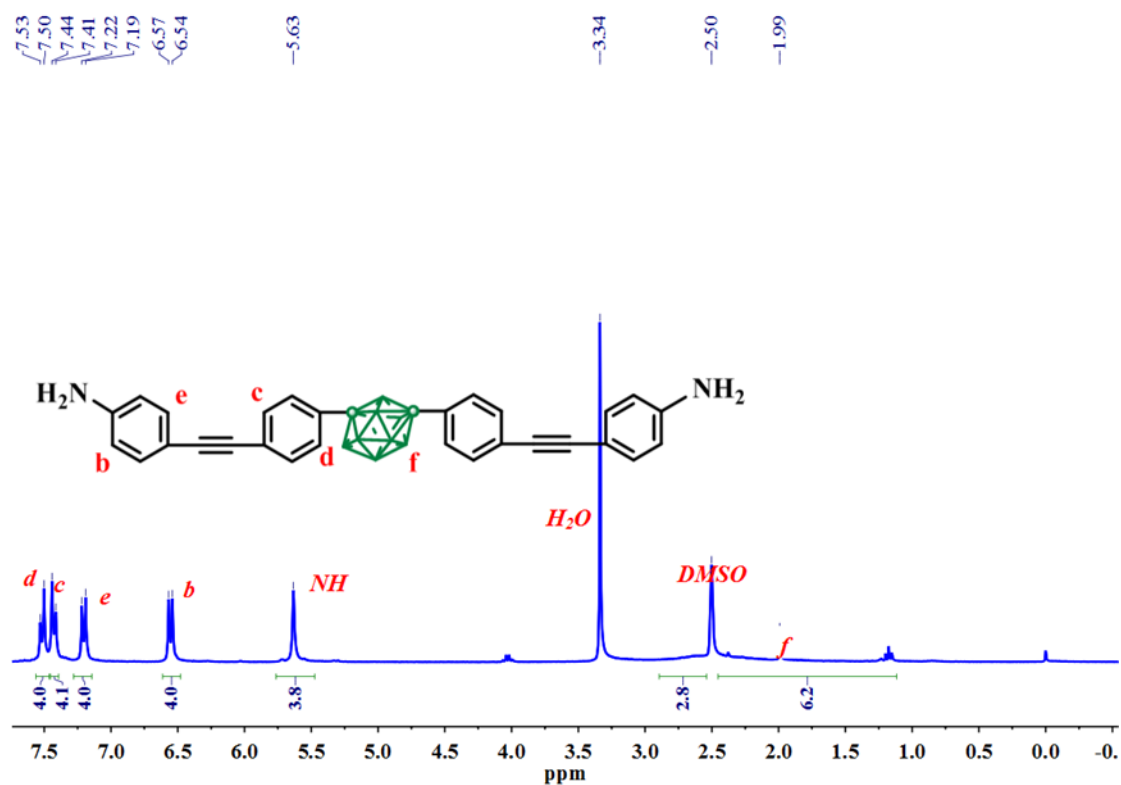


Figure S1 ¹H NMR spectrum of diamine 2

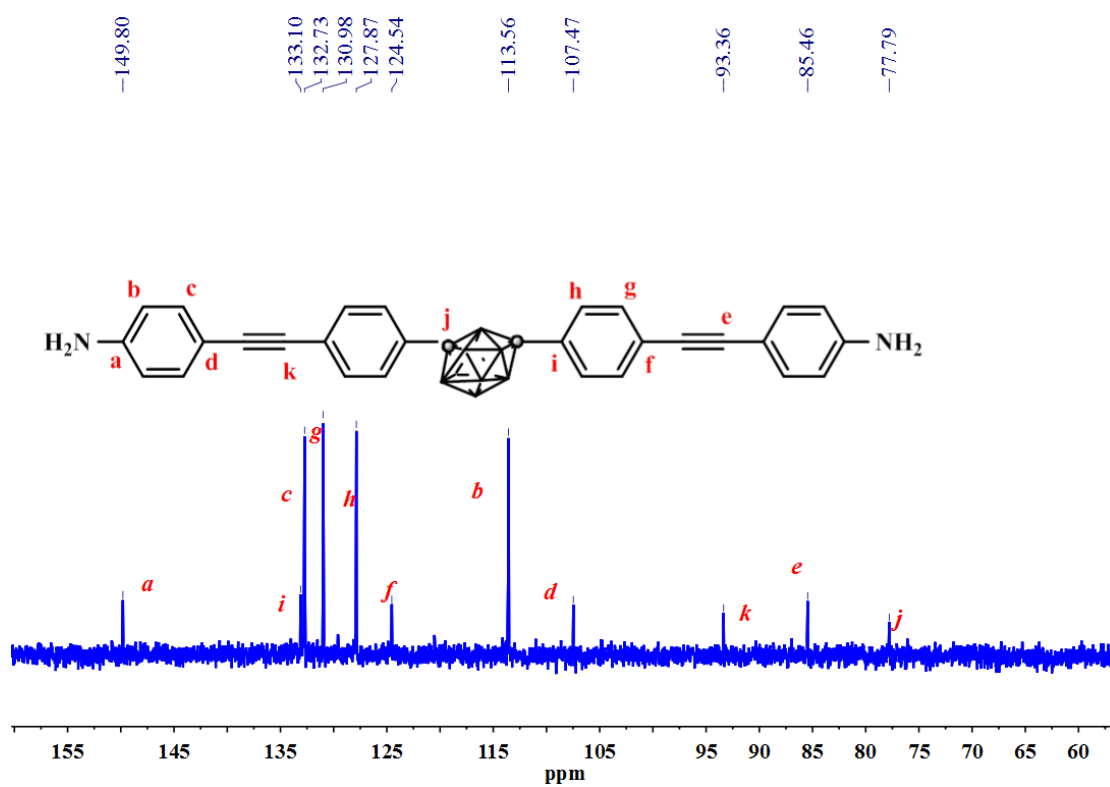


Figure S2 ^{13}C NMR spectrum of diamine 2

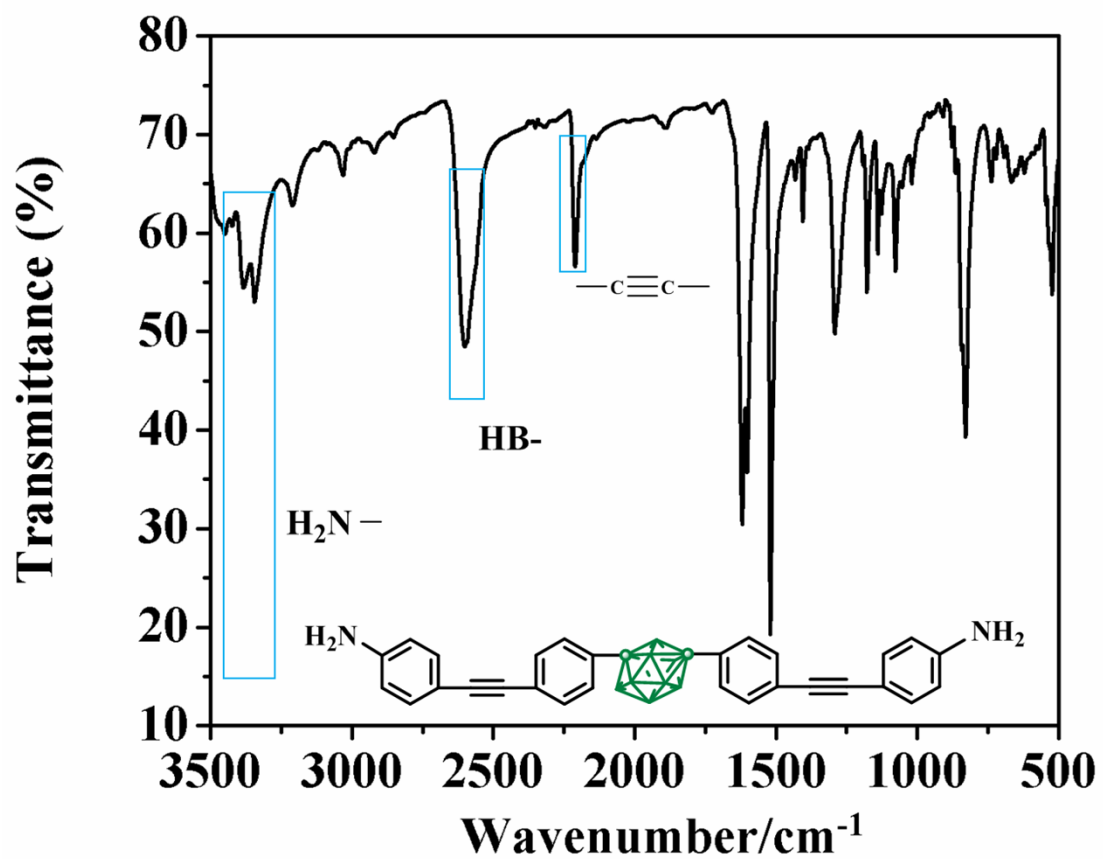


Figure S3 FT-IR spectrum of diamine 2

YJ14-1145-2 #1628-1652 RT: 13.98-14.19 AV: 25 SI 1 NL: 3.42E6
T: + c ESI Q1 MS [450.000-650.000]

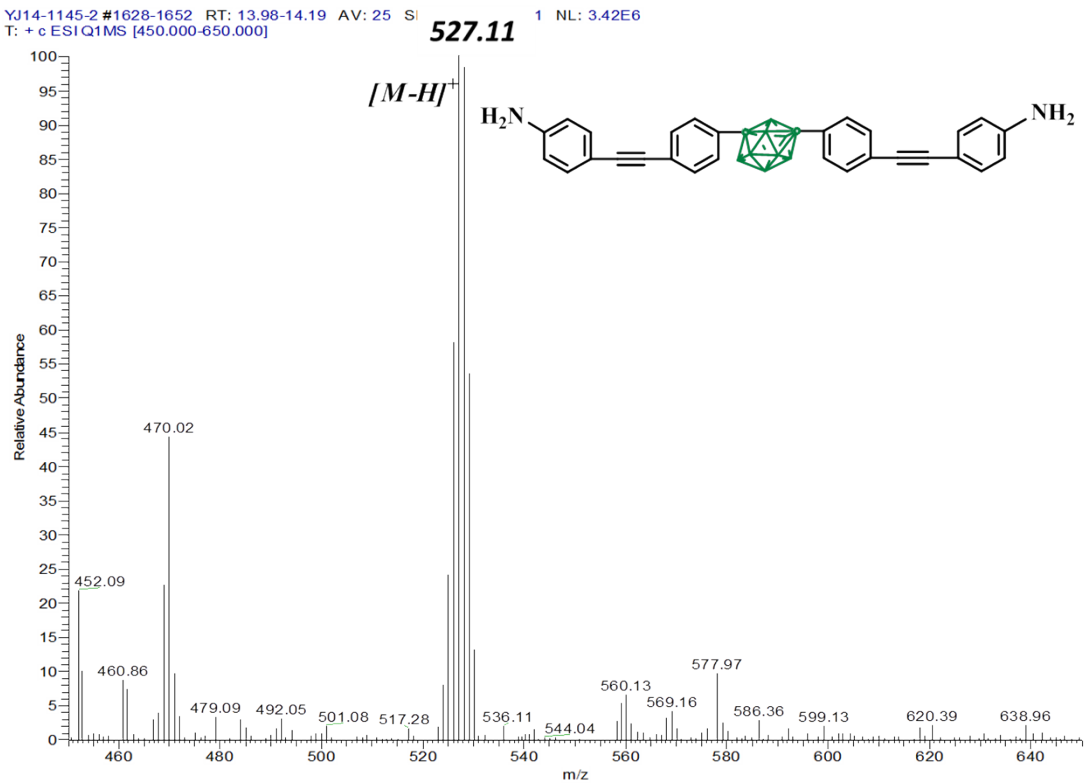


Figure S4 mass spectrum of diamine 2

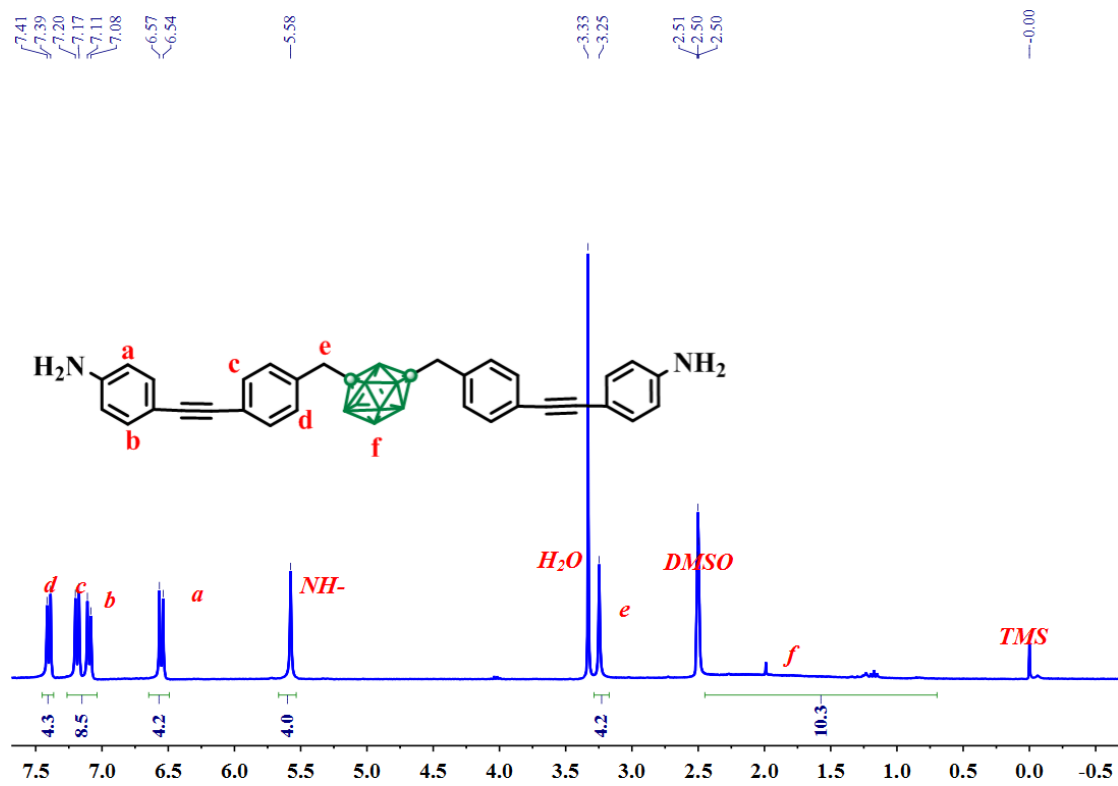


Figure S5 ¹H NMR spectrum of diamine 4

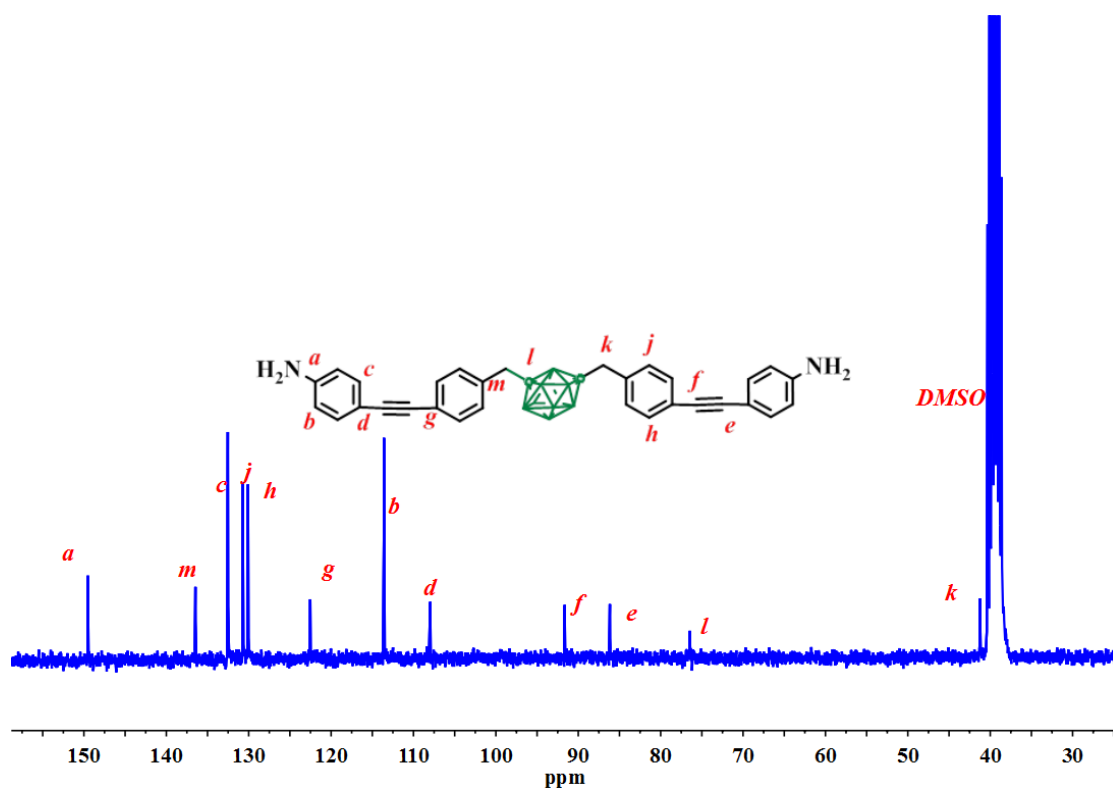


Figure S6 ^{13}C NMR spectrum of diamine 4

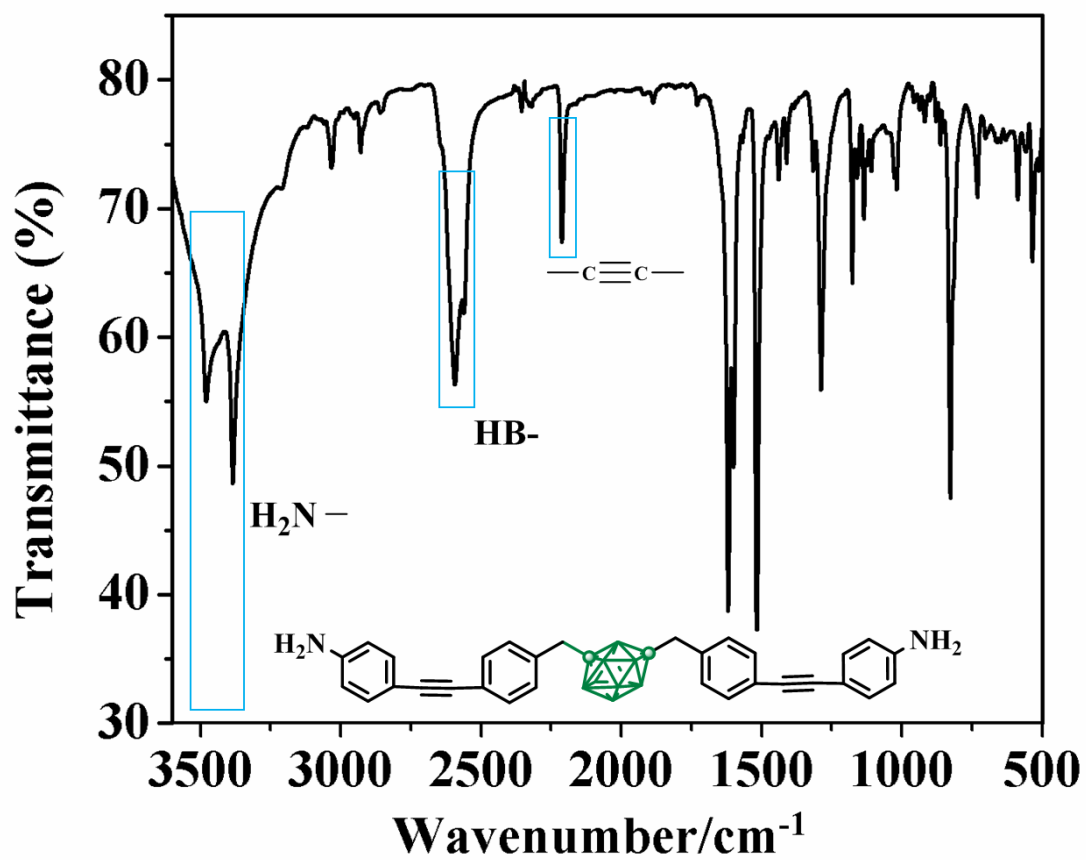


Figure S7 FT-IR spectrum of diamine 4

YJ14-1145-1_140625103915 #191-200 RT: 1.65-1.73 AV: 10 SB: 22 0.63-0.81 NL: 5.00E6
T: + c ESI Q1MS [450.000-650.000]

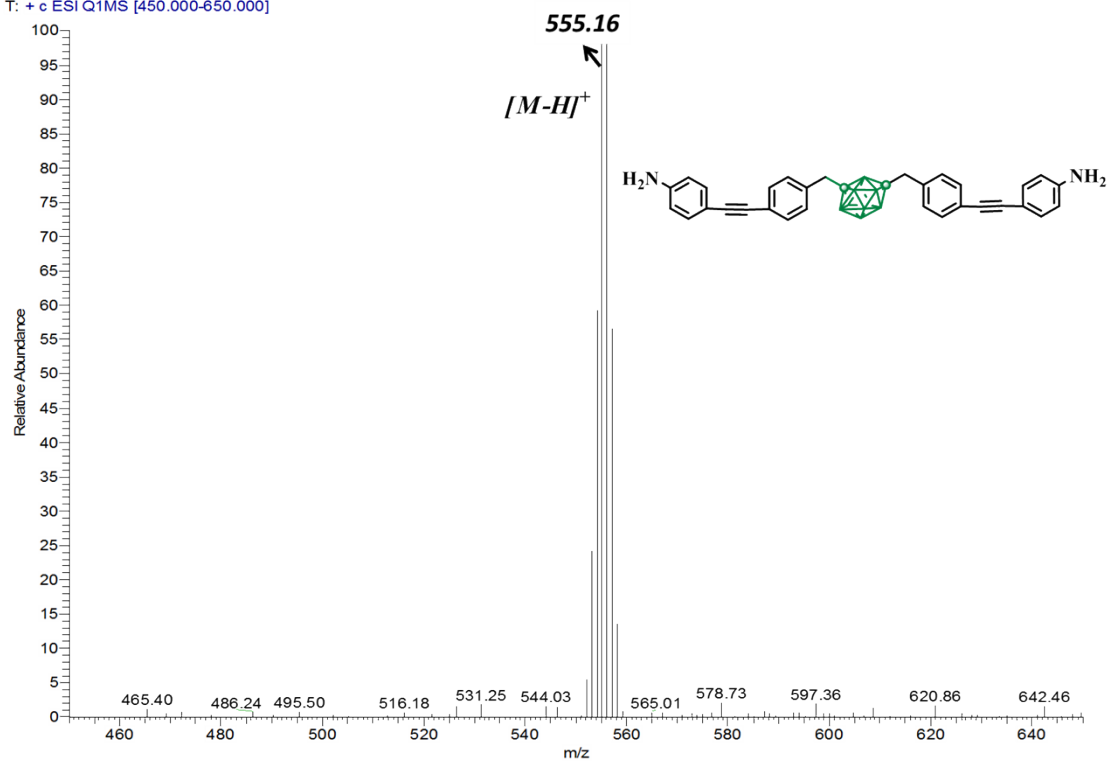


Figure S8 mass spectrum of diamine 4

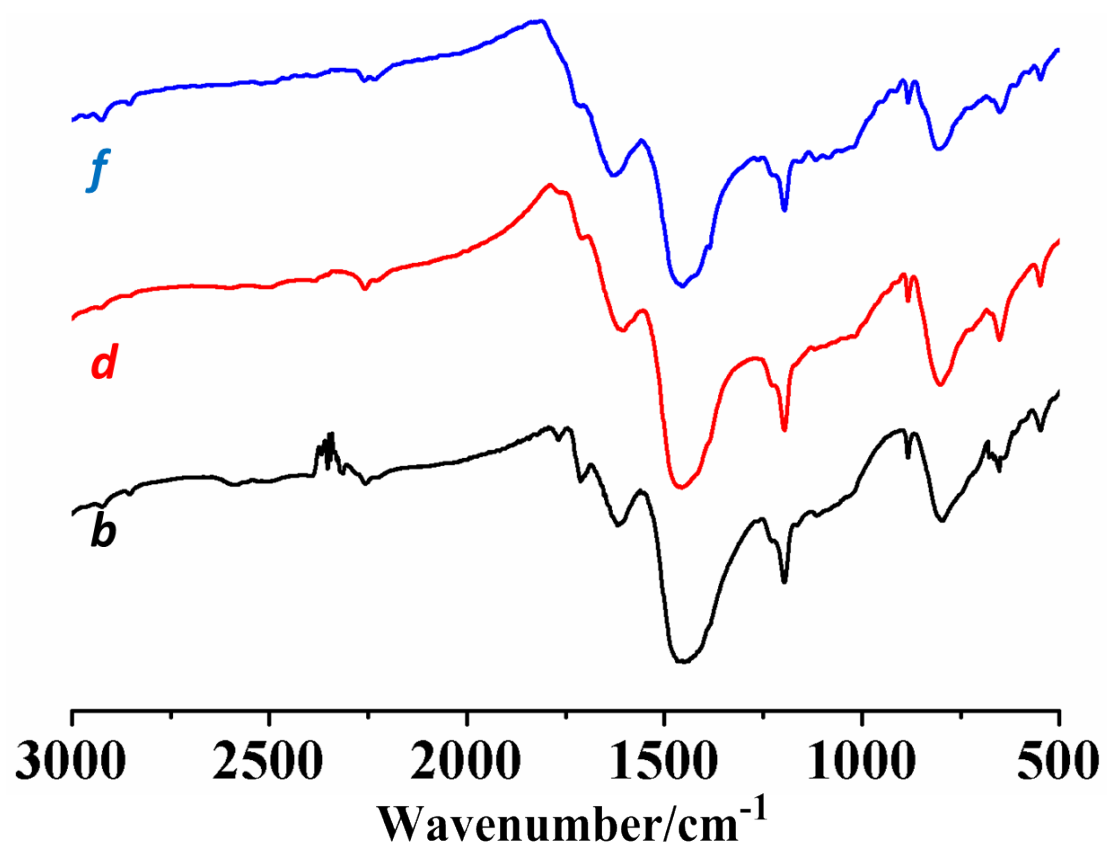


Figure S9 FT-IR spectra of polyimide *b*, *d* and *f* after heating to 500 °C and keeping at 500 °C for 3 h