

## Supporting Information

### Supporting Figures

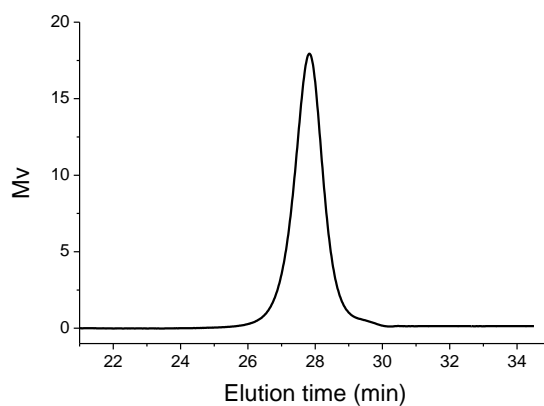


Figure S1. GPC of Tp-LPSQ

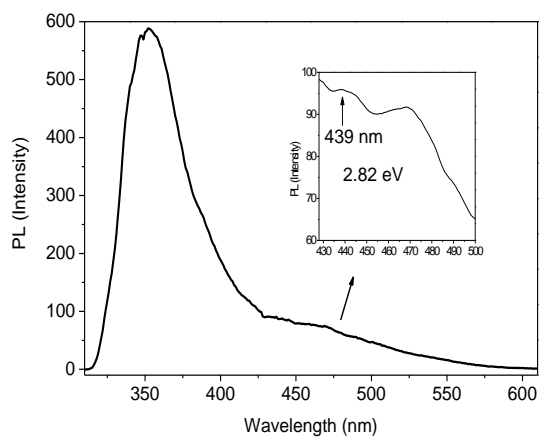


Figure S2. PL of Tp-LPSQ in dichloromethane solution at 77k

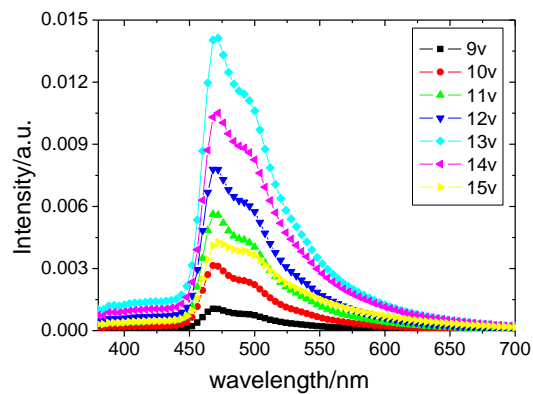


Figure S3. EL spectra with different voltages for device ITO:PEDT/PVK/ TP:FlrPic /TPBi/LiF:Al

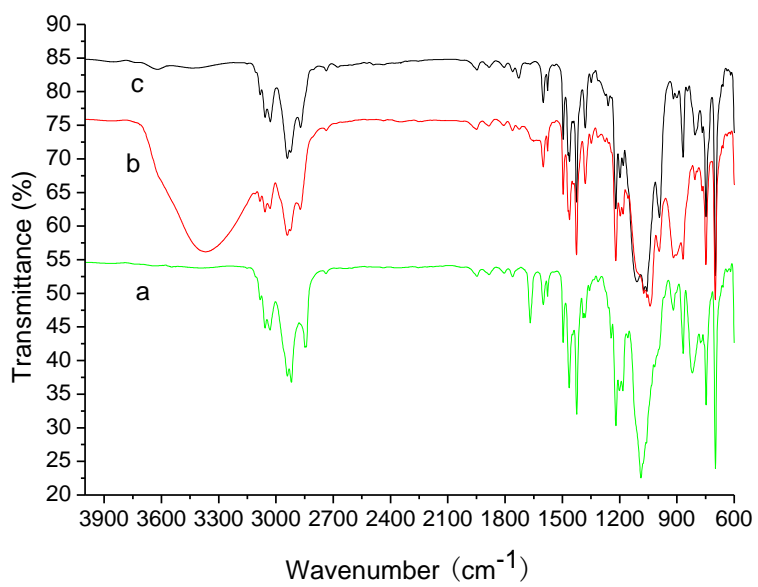


Figure S4. IR spectra of a. M<sub>1</sub>; b. M<sub>2</sub>; c. Tp-LPSQ.