

Fig S1. ¹H NMR spectrum of AEMs based from QPEEK-TMA in OH- form before and after storage in 1 M NaOH at 60 °C for 24 days.

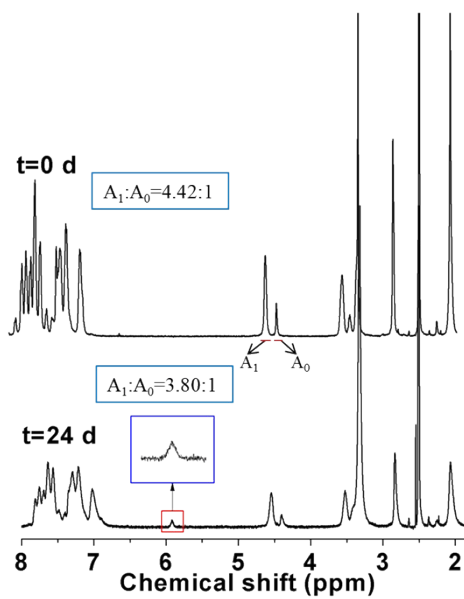


Fig S2. ¹H NMR spectrum of AEMs based from QPEEK-MPY in OH- form before and after storage in 1 M NaOH at 60 °C for 24 days.

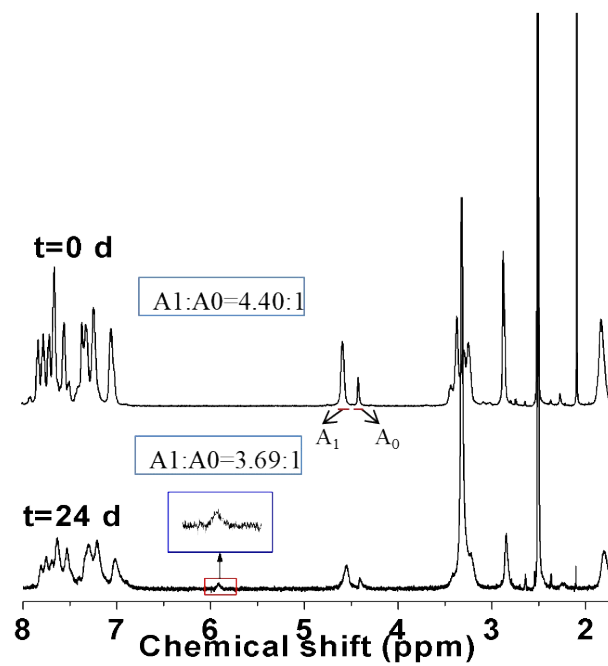


Fig S3. ^1H NMR spectrum of AEMs based from QPEEK-MPRD in OH- form before and after storage in 1 M NaOH at 60 °C for 24 days.