

Figure S1 $^1\text{H-NMR}$ of precursor to ionic liquid monomer M1

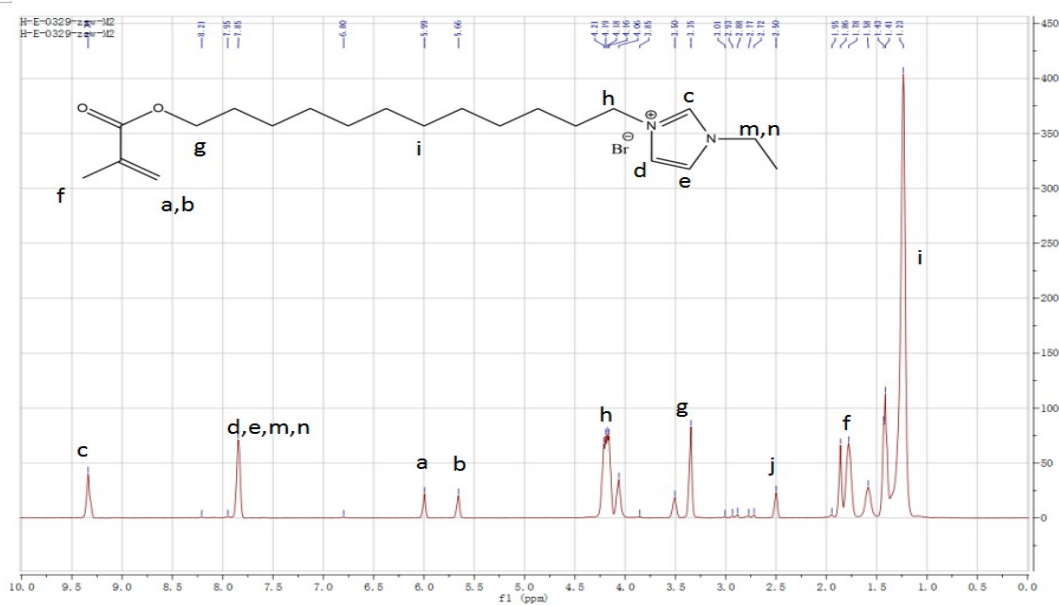


Figure S2 $^1\text{H-NMR}$ of precursor to ionic liquid monomer M2

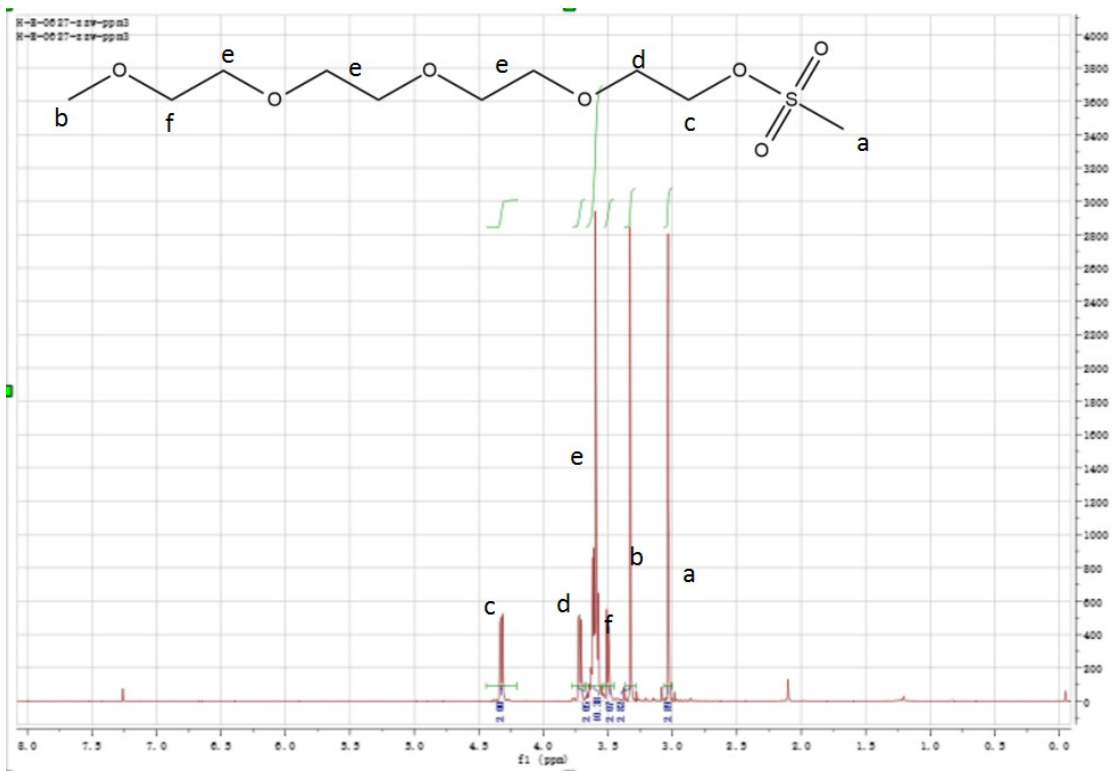


Figure S3 $^1\text{H-NMR}$ of precursor 7 to ionic liquid monomer M3

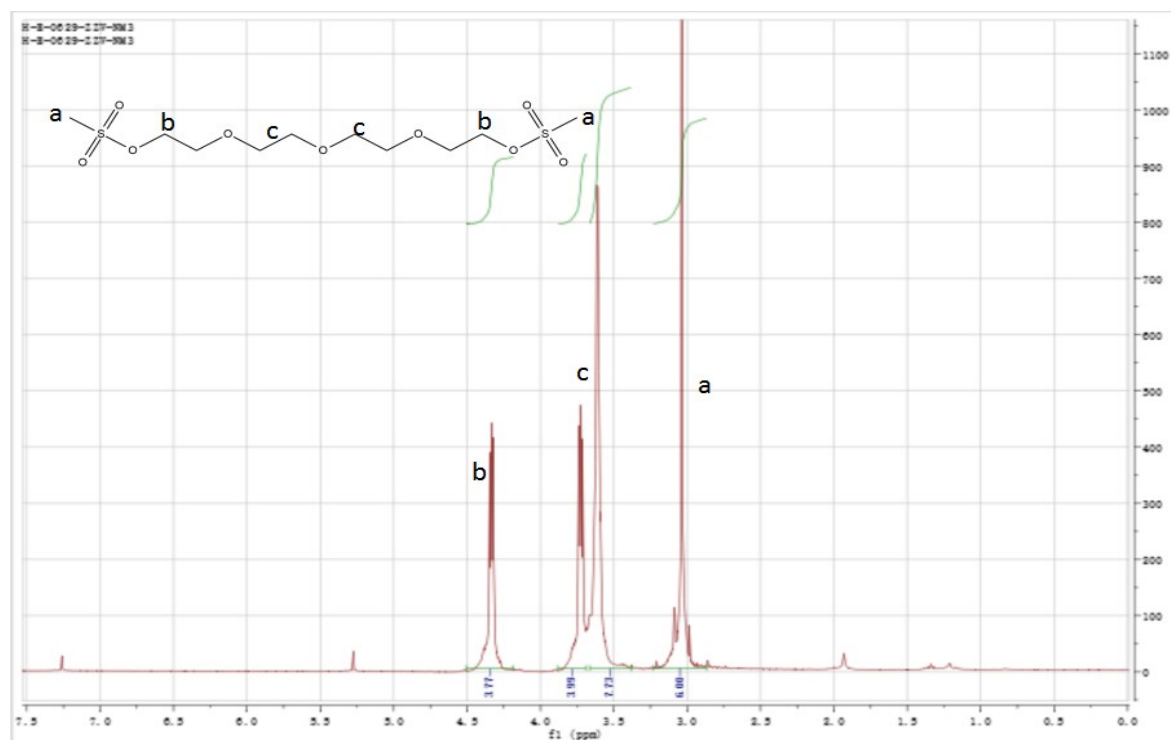


Figure S4 $^1\text{H-NMR}$ of precursor 10 to ionic liquid monomer M4

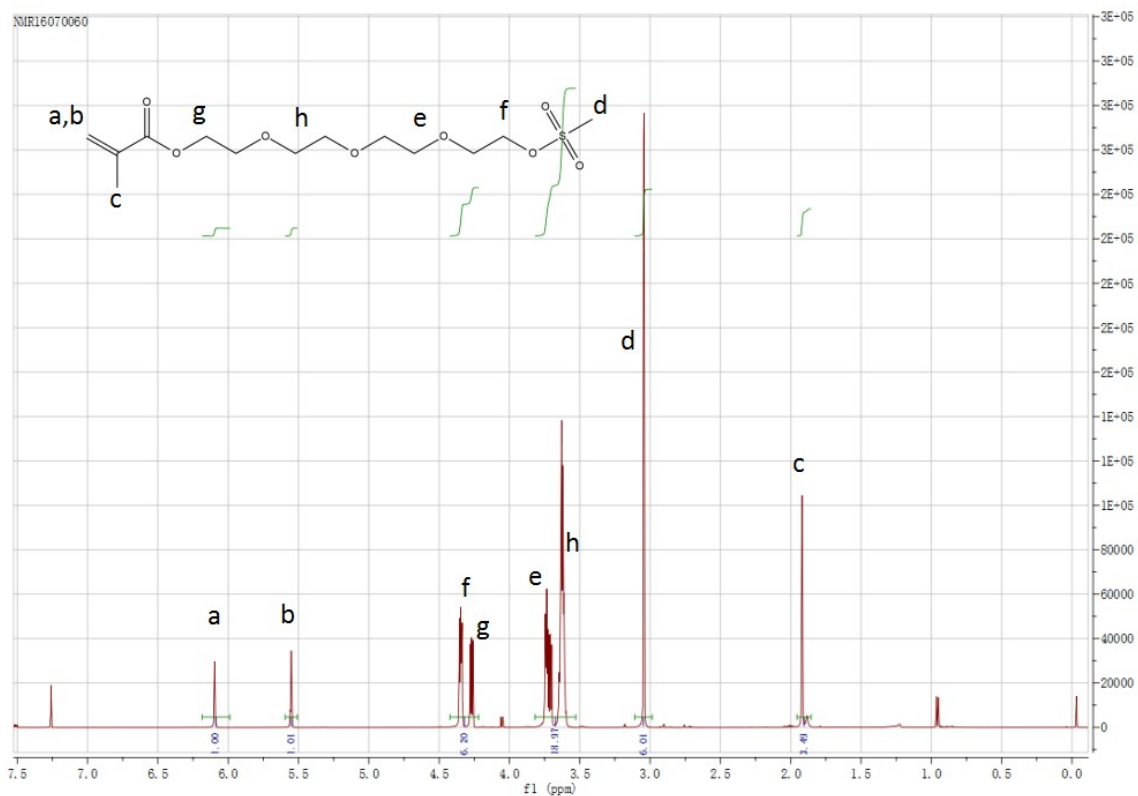


Figure S5 $^1\text{H-NMR}$ of precursor 11 to ionic liquid monomer M4

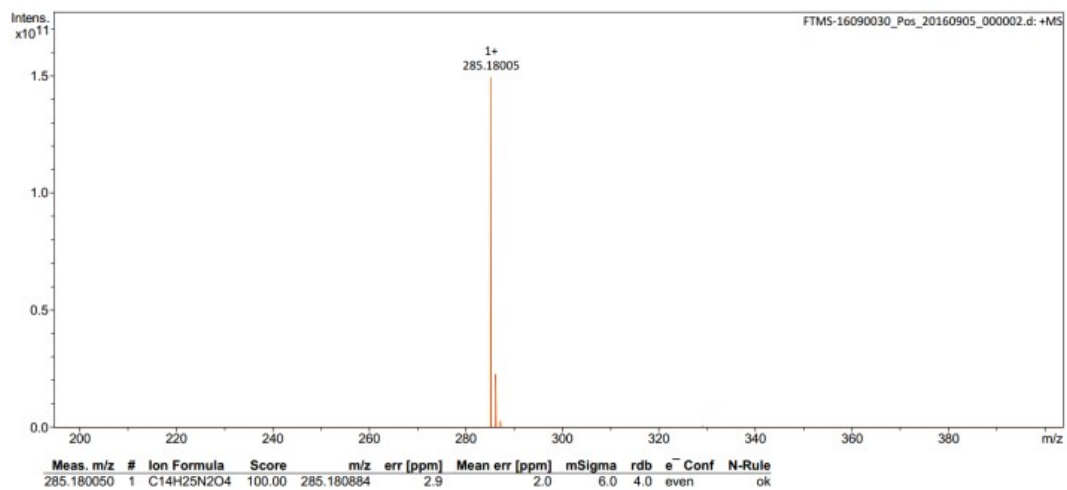


Figure S6 HR-Mass spectrum of cation of M3

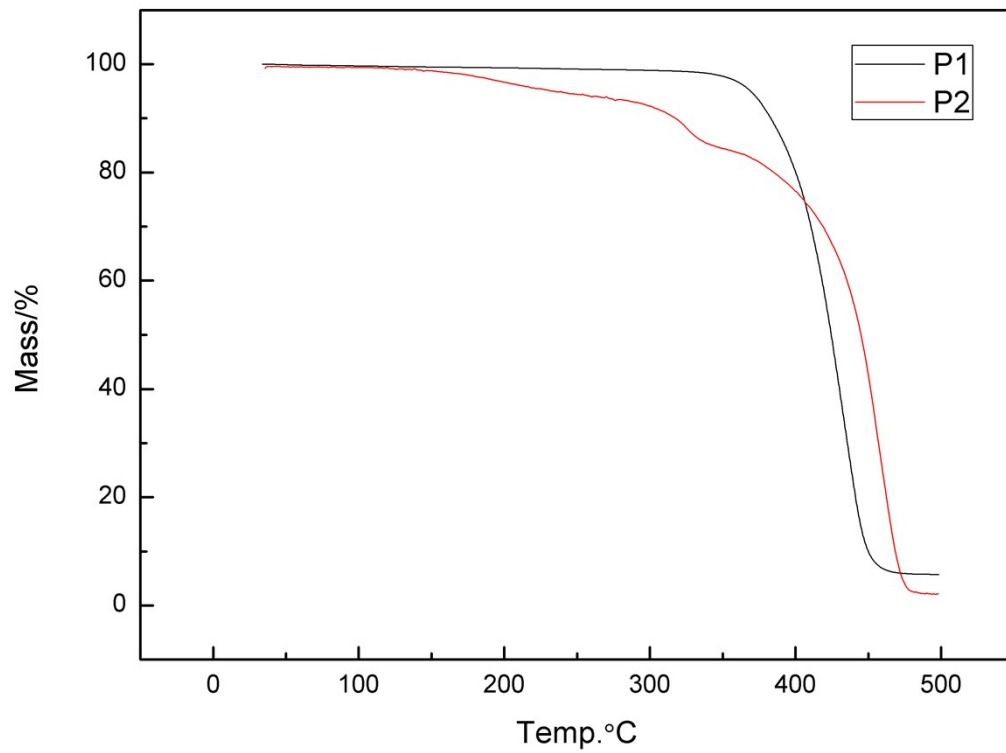


Figure S7 TGA graphic of P1 and P2