**Supporting Information**

**Poly(arylene ether sulfone)s with HEPES Pendants: Synthesis, Thermal and Dielectric studies**

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**FIGURE 1:** 1H NMR (DMSO-d6) spectrum of VALPSU Polymer



**FIGURE 2:** 13C NMR (DMSO-d6) spectrum of VALPSU Polymer



**FIGURE 3:** 1H NMR (DMSO-d6) spectrum of VALPSU-HEP-40 Polymer



**FIGURE 4:** 13C NMR (DMSO-d6) spectrum of VALPSU-HEP-40 Polymer



**FIGURE 5:** FTIR spectrum of VALPSU polymer



**FIGURE 6:** FTIR spectrum of VALPSU-HEP-20 polymer



**FIGURE 7:** FTIR spectrum of VALPSU-HEP-40 polymer



**FIGURE 8:** FTIR spectrum of VALPSU-HEP-60 polymer