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Supporting Information to:

Cationic Polymerization of Dibenzofulvene Leading to a π-Stacked Polymer

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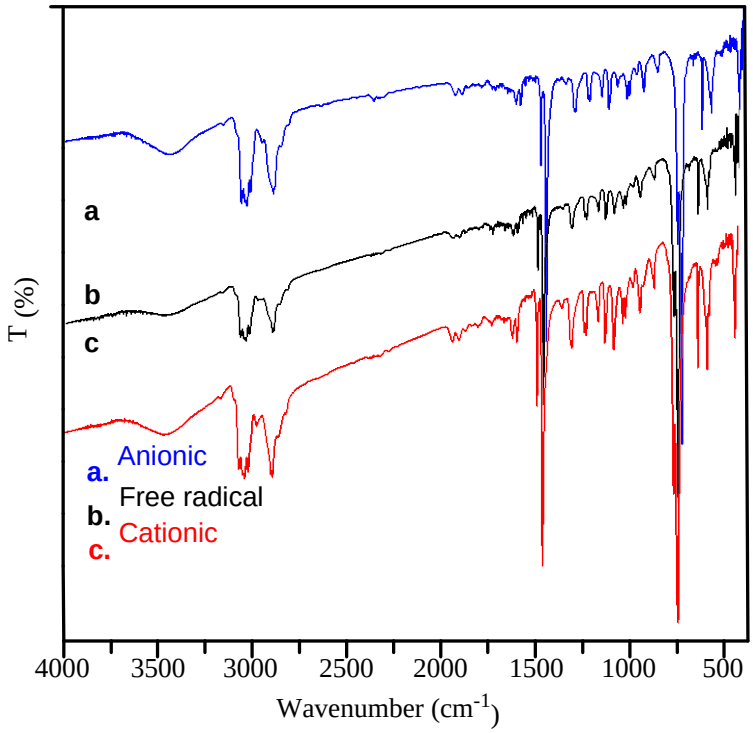

Fig. S1. IR spectra (full range) of poly(DBF)s prepared by anionic (a), radical (b), and cationic (c) polymerizations. [THF-insoluble polymers, KBr pellet]

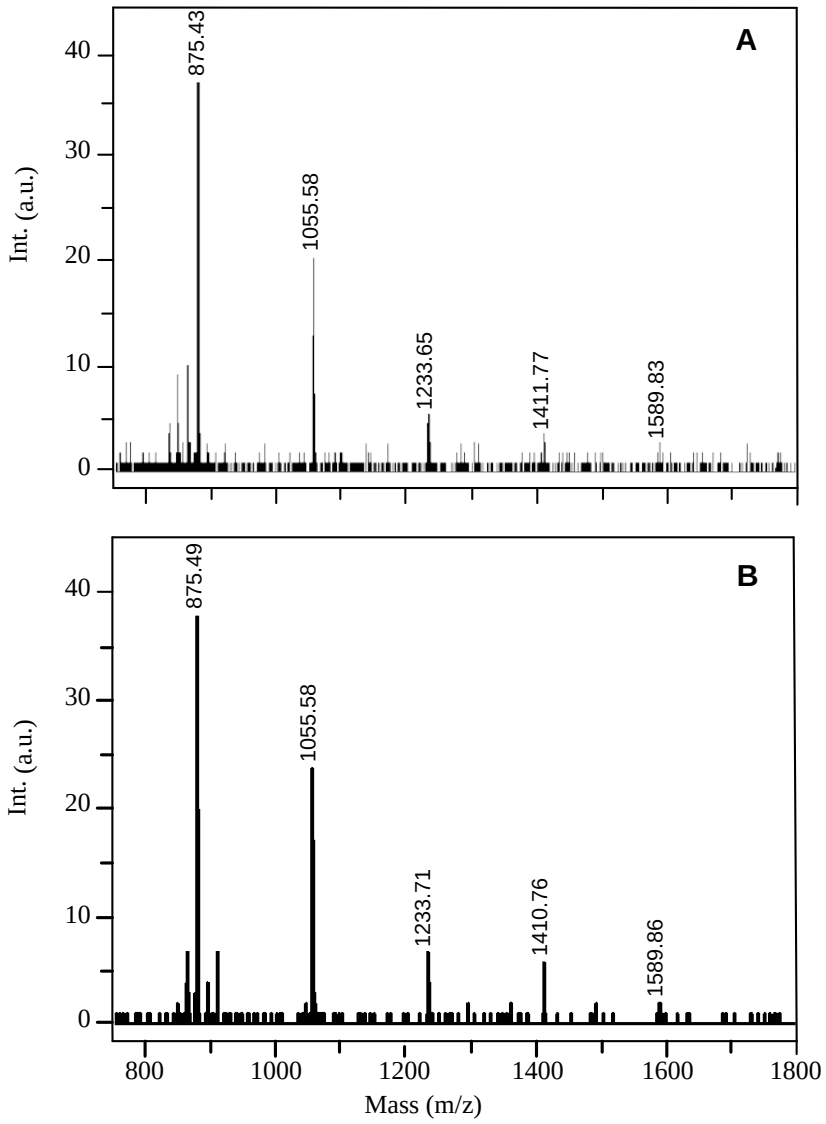

Fig. S2. MALDI-TOF mass spectra of THF-soluble poly(DBF)s prepared using BF_3-Et_2O (run 10 in Table 1) and (A) and using CH_3SO_3H (run 11 in Table 1) (B). Samples were parepared by depositing 1μL of poly(DBF) solution in $CHCl_3$ (7 mg/mL) onto pre-formed thin layer of dithranol matrix by drop-casting 1μL of THF solution (10 mg/mL, 4.42 x 10^{-2} M) in a sample well.

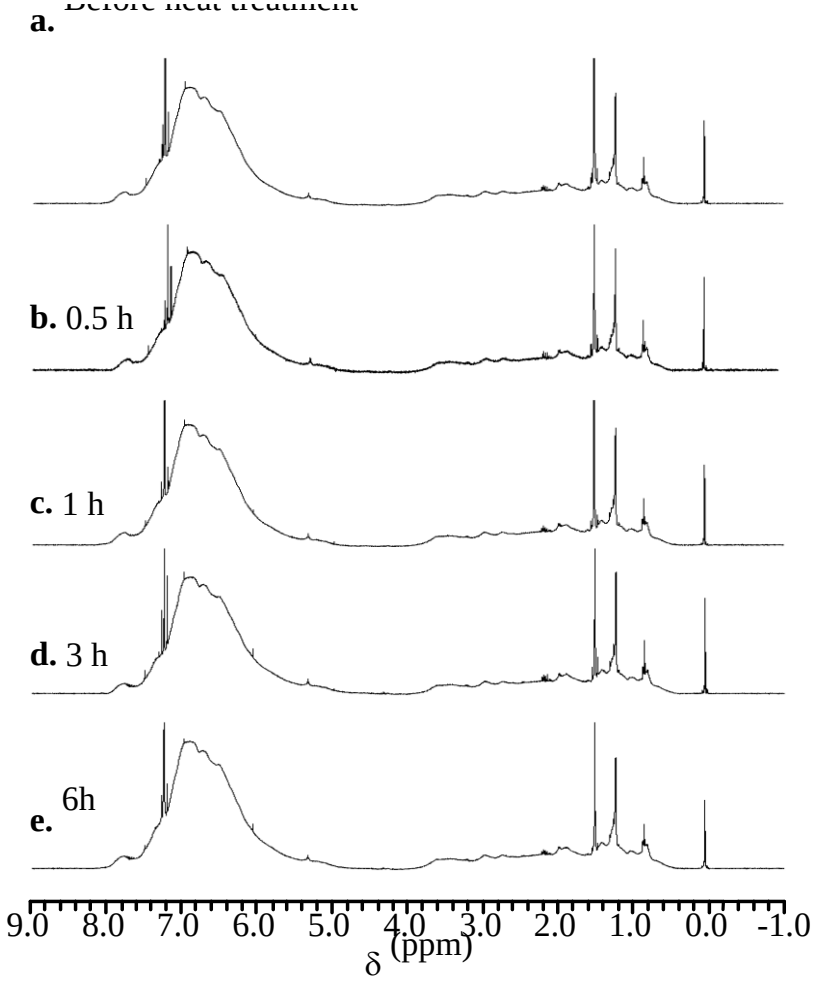

Fig. S3. ^{1}H NMR spectra of poly(DBF) prepared using BF_3-Et_2O (run 10 in Table 1) before (a) and after heat treatment in $CDCl_3$ solution at 60^{o}C for 0.5 h (b), 1 h (c), 3 h (d), and 6 h (e). [400 MHz, $CDCl_3$, 23^{o}C]

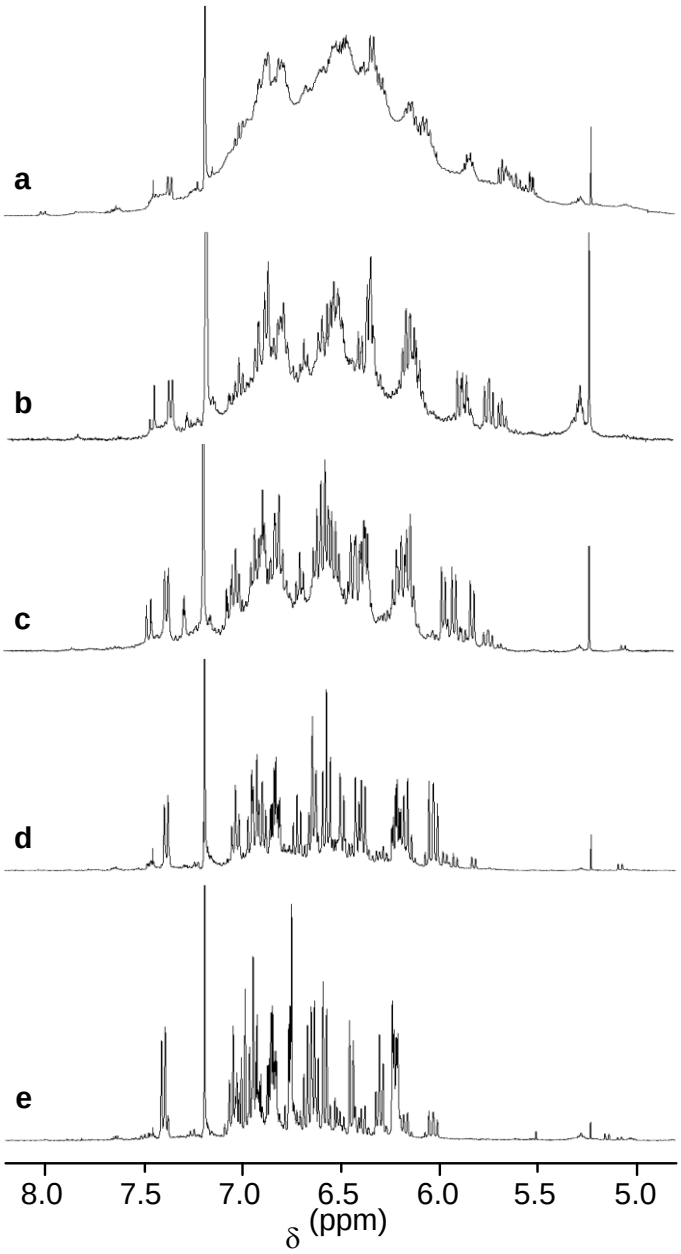

Fig. S4. ^{1}H NMR spectra (aromatic region) of poly(DBF) samples prepared by cationic polymerization using BF_3-OEt_2 in CH_2Cl_2 at 0^{o}C (run 3 in Table 1) and isolated by preparative SEC: Mn 1430 (a), 1000 (b), 920 (c), 820 (d), and 740 (e). [400 MHz, r.t., $CDCl_3$]

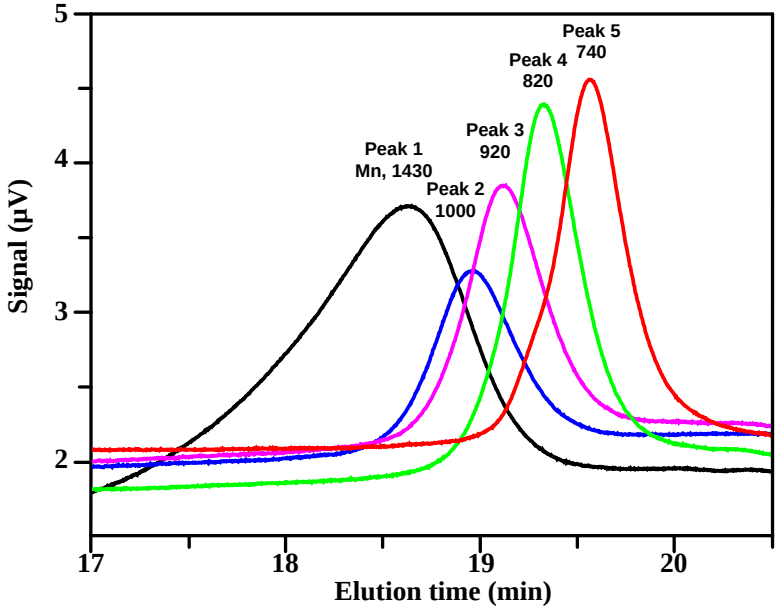

Fig. S5. Analytical SEC profiles of poly(DBF) samples prepared by cationic polymerization using BF_3-OEt_2 in CH_2Cl_2 at 0^oC (run 3 in Table 1) and isolated by preparative SEC.