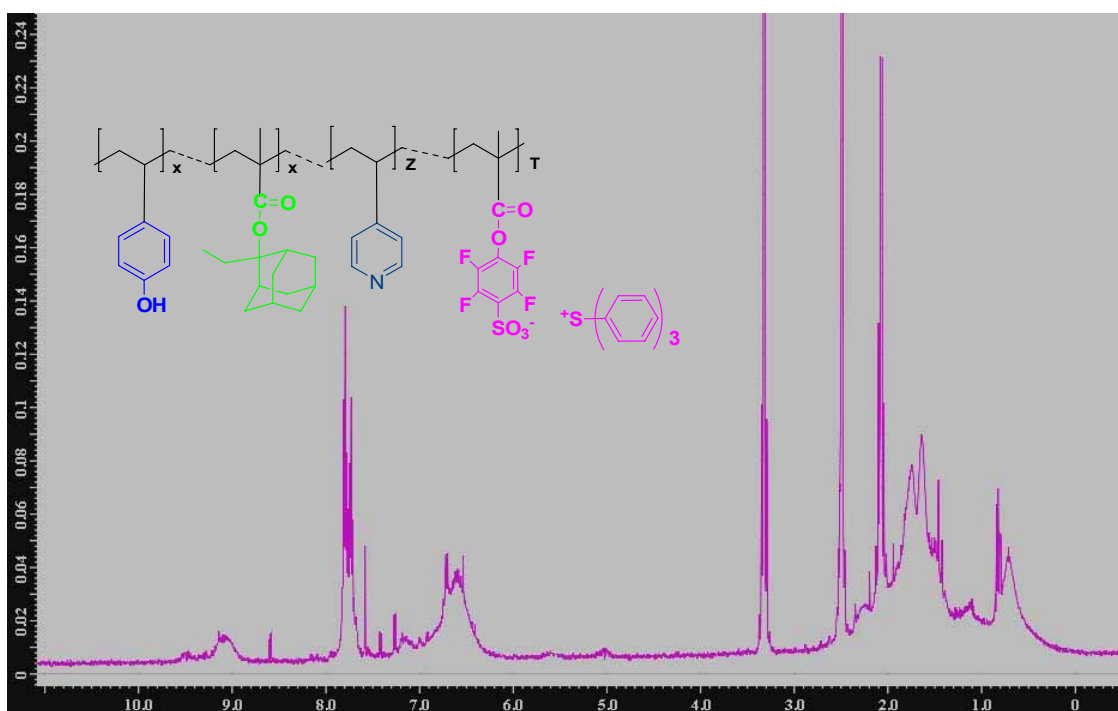


Supporting information(B801517A)

Incorporation of Ionic Photoacid Generator(PAG) and Base Quencher into the Resist Polymer Main Chain for Sub-50 nm Resolution Patterning

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The ¹H NMR of Polymer (HS-EA-F4PAG-Pyridine) in DMSO-d₆



The molar composition of each unit in the terpolymers was determined by ¹H NMR. The characteristic peaks: 9.1 ppm is assigned to the proton of hydroxyl group of HOST, 8.7 ppm is attributed to the protons of pyridine, 7.4-7.8 ppm is assigned to the protons from PAG's cation TPS, 6.6-7.2 ppm from HOST and PAG's anionic part, 0.7-2.6 ppm from the EAMA and main-chain of polymer. The molar composition was calculated based on the integration ratios of the above corresponding peaks.