Supporting Information

for

Block copolymers from ionic liquids for the preparation of thin carbonaceous shells

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Additional spectra

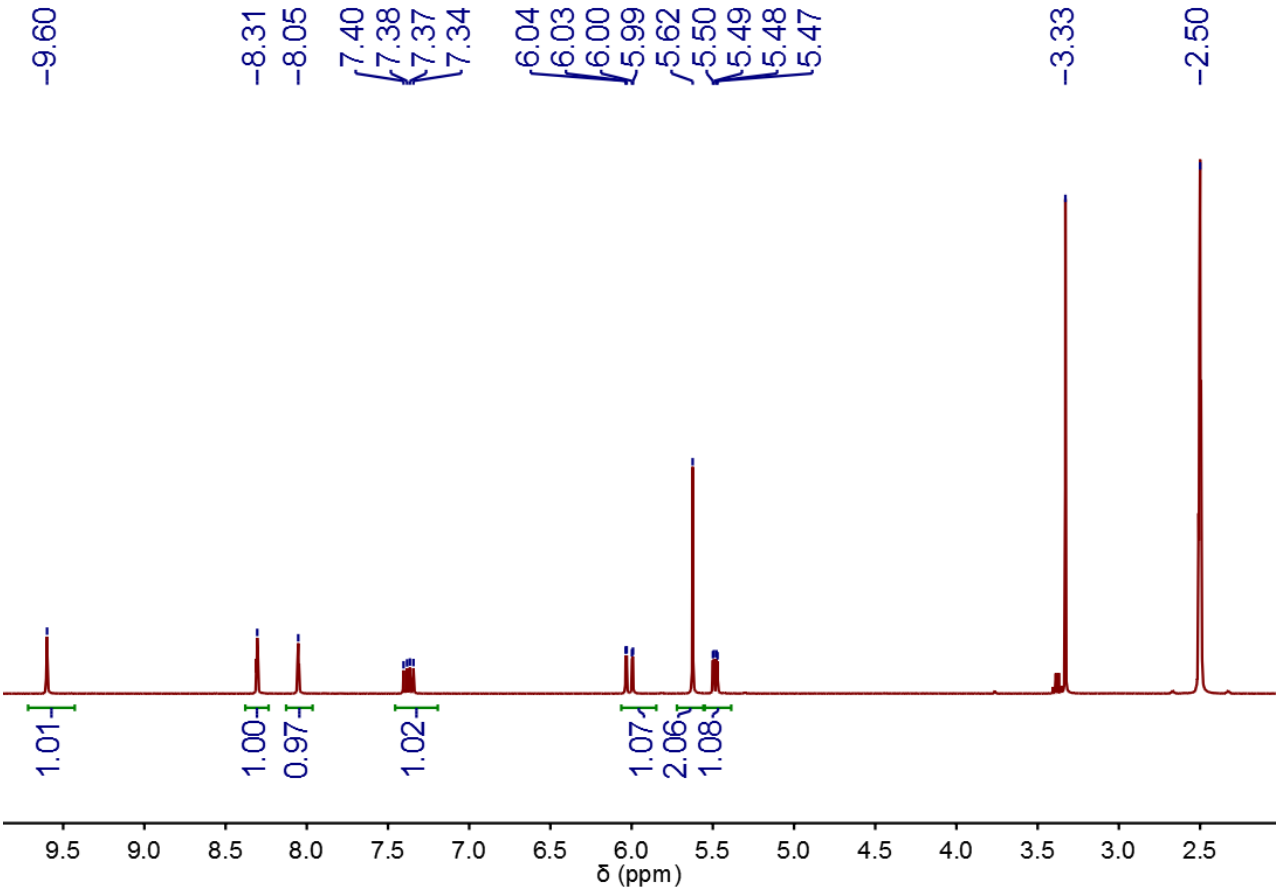

Figure S1: ^{1}H NMR of 1-vinyl-3-cyanomethylimidazolium bromide, measured in DMSO-d_6.

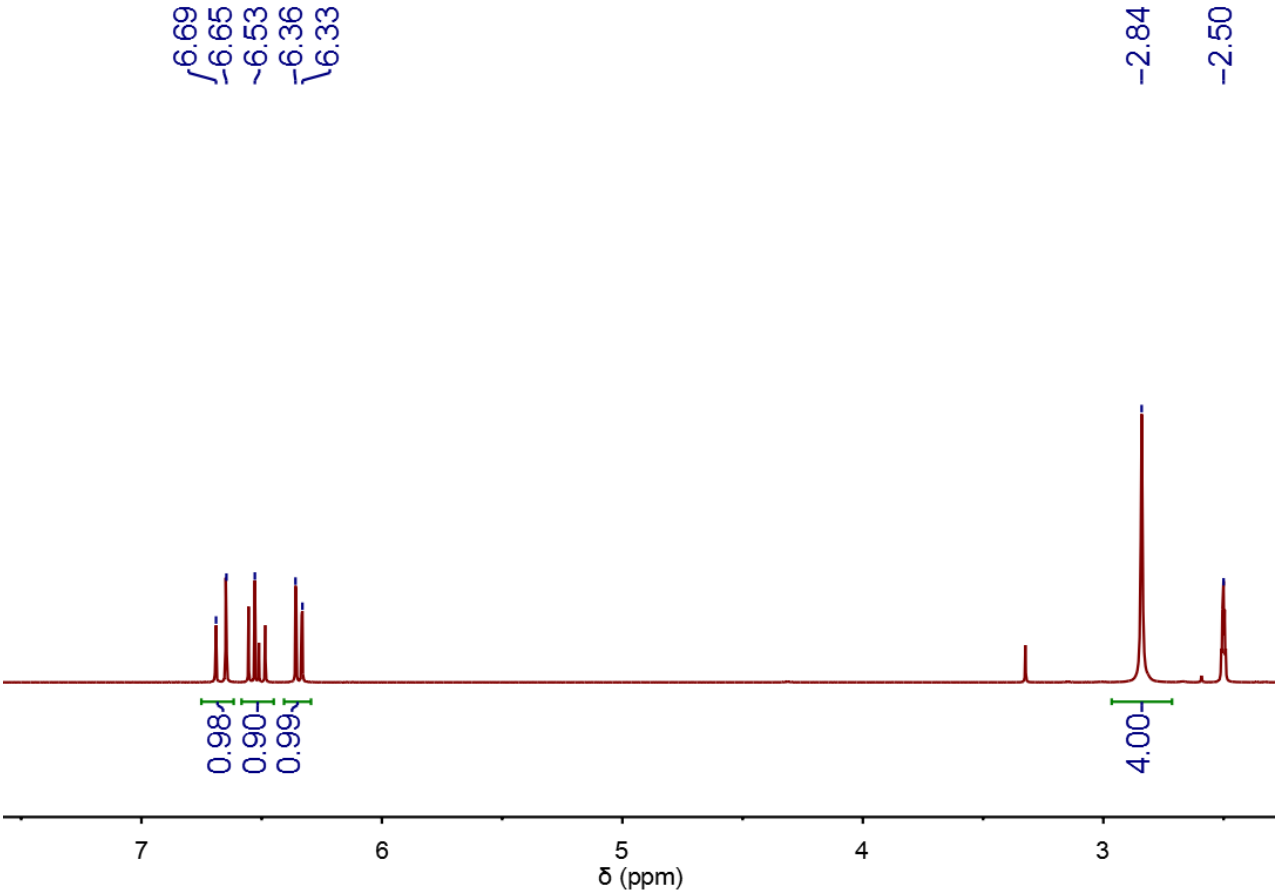

Figure S2: H NMR of NAS, measured in DMSO-d_6.

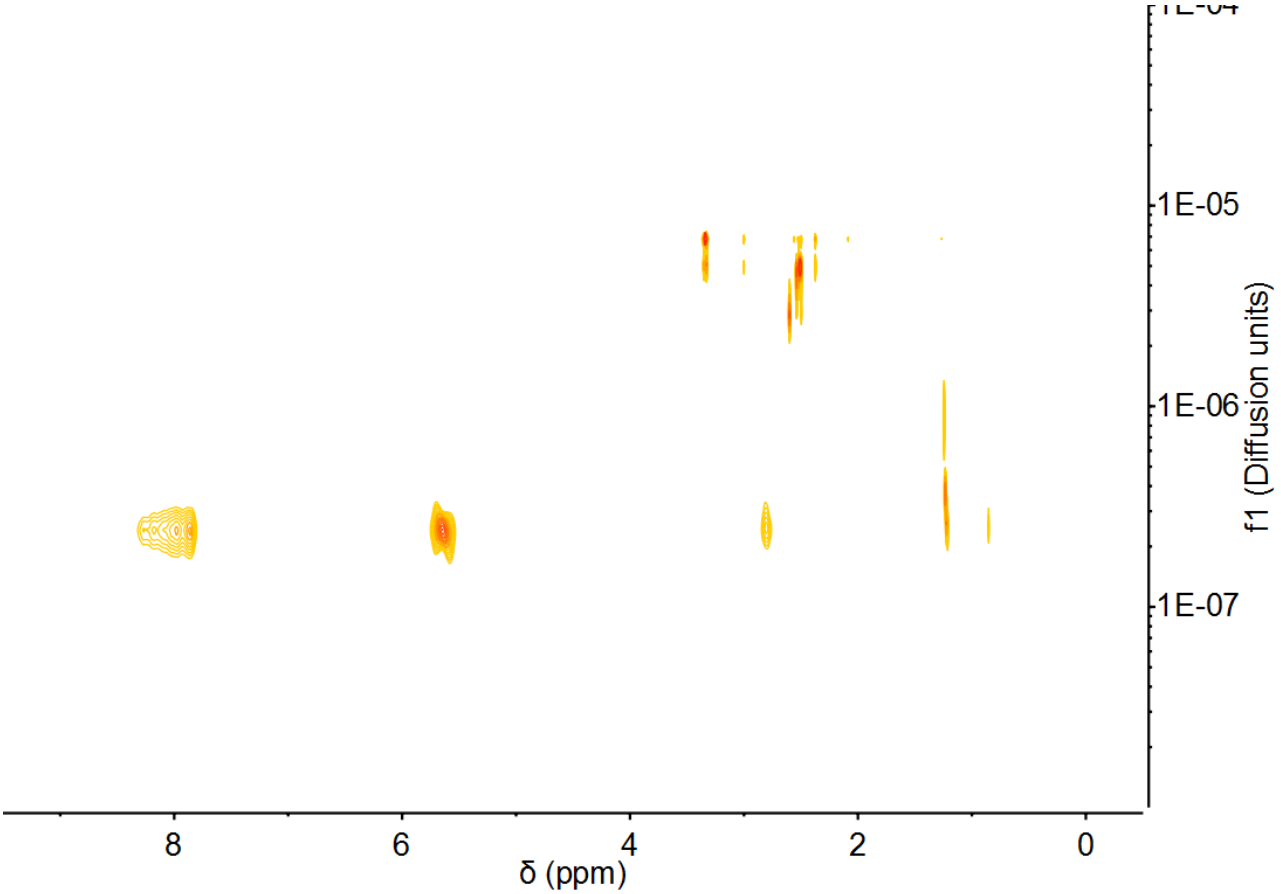

Figure S3: DOSY of the block copolymer **PB**. The spectrum shows just one polymeric species. DMSO and traces of water are also apparent, since the spectrum was measured in DMSO-d_6.

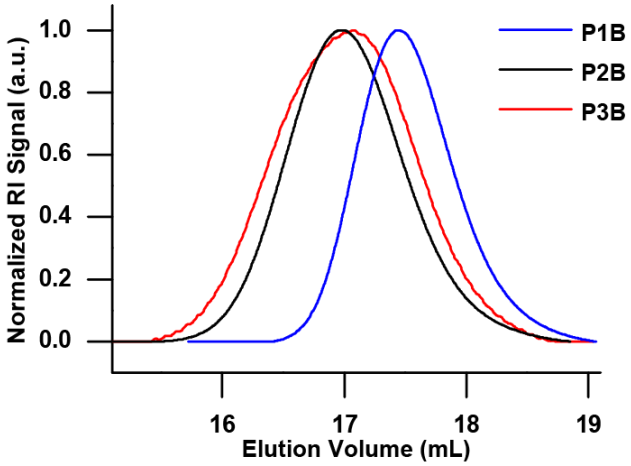

Figure S4: SEC of **P1B** (blue), **P2B** (black), **P3B** (red) measured in HFIP.

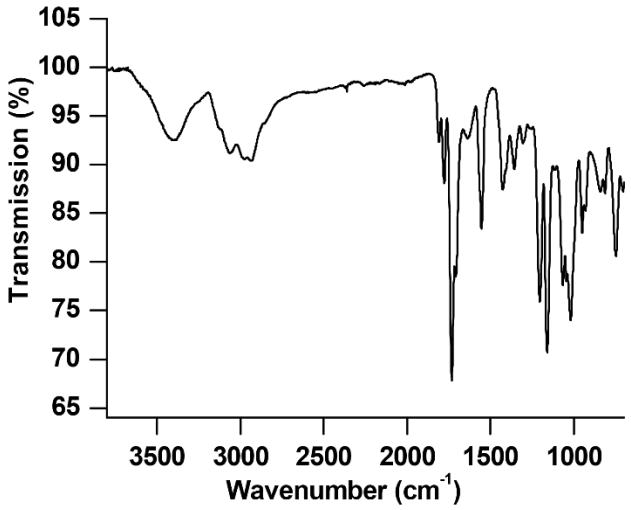

Figure S5: IR spectrum of the block copolymer **PB**.

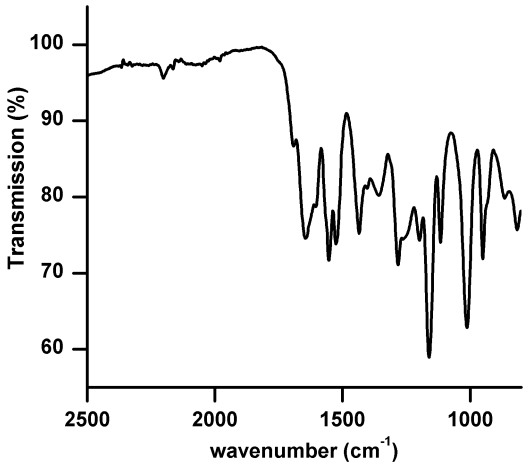

Figure S6: IR spectrum of the block copolymer after post polymerization modification (**PC**).