

Supporting Information

Synthesis and Properties of Metallo-Supramolecular Poly(*p*-phenylene ethynylene)s

Daniel Knapton, Stuart J. Rowan,^{*} and Christoph Weder^{*}

Contribution from the Department of Macromolecular Science and Engineering, Case

Western Reserve University, 2100 Adelbert Road, Cleveland, Ohio 44106-7202

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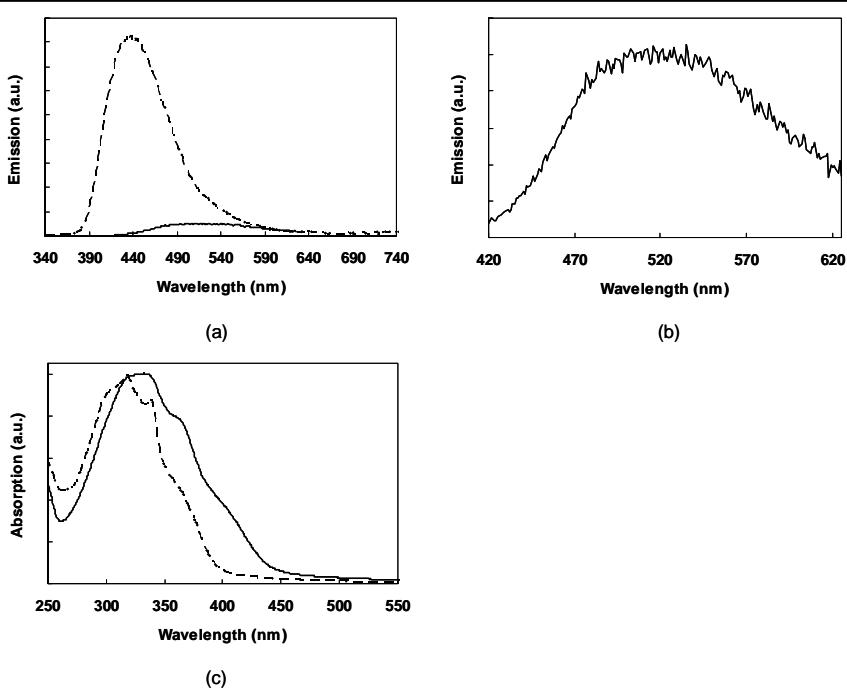


Figure S1. (a) PL emission spectra of **5** (dashed) and the 1:1 $\text{Zn}(\text{ClO}_4)_2\text{:5}$ complex (solid). (b) Expansion (20 x) of the PL emission spectrum of the 1:1 $\text{Zn}(\text{ClO}_4)_2\text{:5}$ complex. (c) Normalized optical absorption spectra of **5** (dashed) and the 1:1 $\text{Zn}(\text{ClO}_4)_2\text{:5}$ complex in 9:1 $\text{CHCl}_3\text{:CH}_3\text{CN}$ (0.025 mM). Emission spectra were collected in 9:1 $\text{CHCl}_3\text{:CH}_3\text{CN}$ (0.025 mM) under excitation at 320 nm in the case of **5** and 390 nm for the corresponding Zn^{2+} complex.

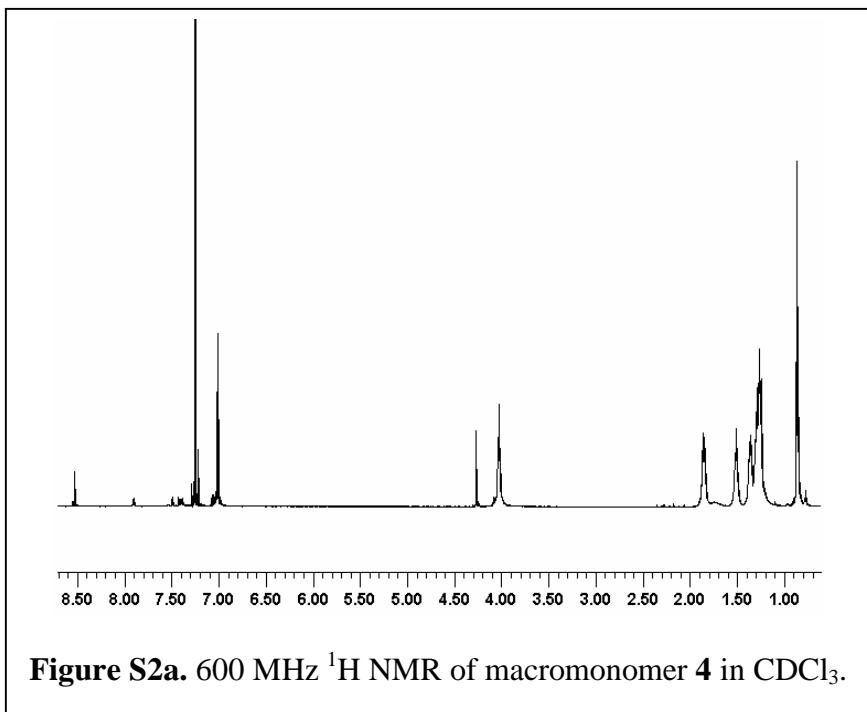


Figure S2a. 600 MHz ^1H NMR of macromonomer **4** in CDCl_3 .

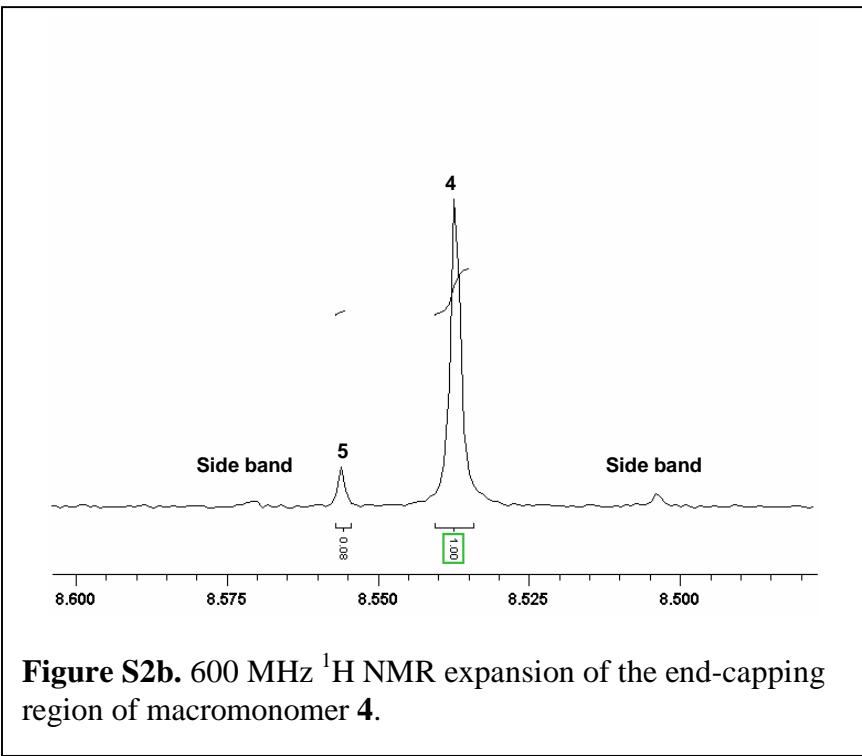


Figure S2b. 600 MHz ^1H NMR expansion of the end-capping region of macromonomer **4**.

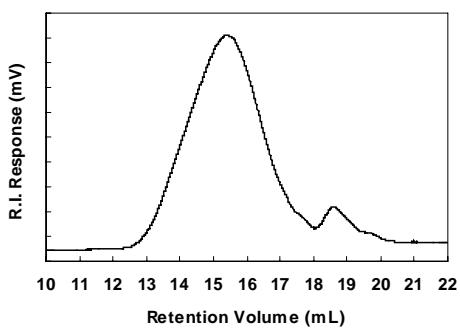


Figure S4. GPC trace of macromonomer **4**.