

Electronic Supplementary Information (ESI)

**Tetraarylphosphonium Polyelectrolyte Chromophores:
Synthesis, Stability: Photophysics, Film Morphology and
Critical Surface Energy**

Monte S. Bedford,^a Xiaoyan Yang,^c Kara M. Jolly,^b Rachel L. Binnicker,^b Samuel B. Cramer,^b Caitlin E. Keen,^b Connor J. Mairena,^b Amar P. Patel,^b Yuriy Galabura,^a Igor Luzinov,^a and Rhett C. Smith^{b,c,d*}

^a *Department of Materials Science and Engineering, Clemson University, Clemson, SC 29634.*

^b *Laboratory for Creative Inquiry in Chemistry, Clemson University, Clemson, SC 29634.*

^c *Department of Chemistry, Clemson University, Clemson, SC 29634.*

^d *Center for Optical Materials Science and Engineering Technology, Clemson University, Anderson, SC 29634.*

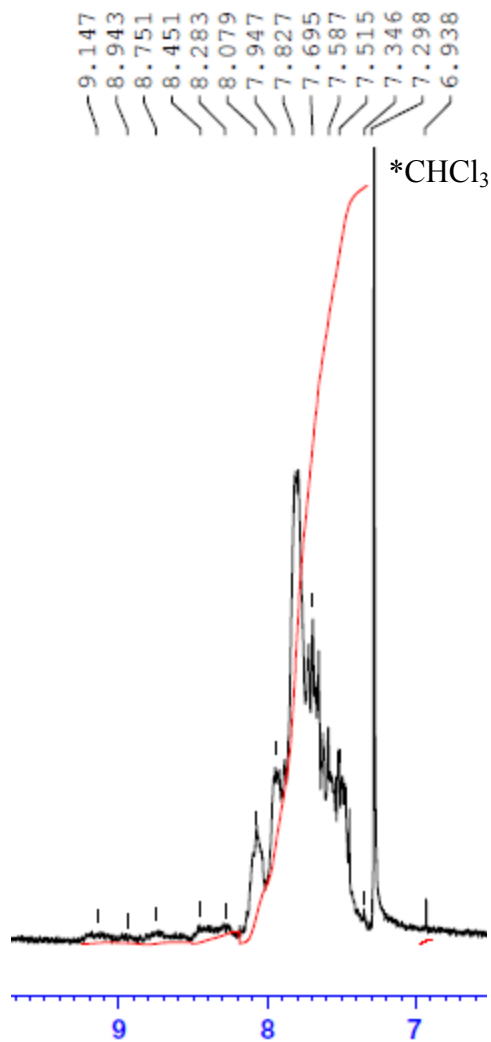


Figure S1. Aromatic region of the ^1H NMR spectrum of **FLoct** (CDCl_3 , 300 MHz).

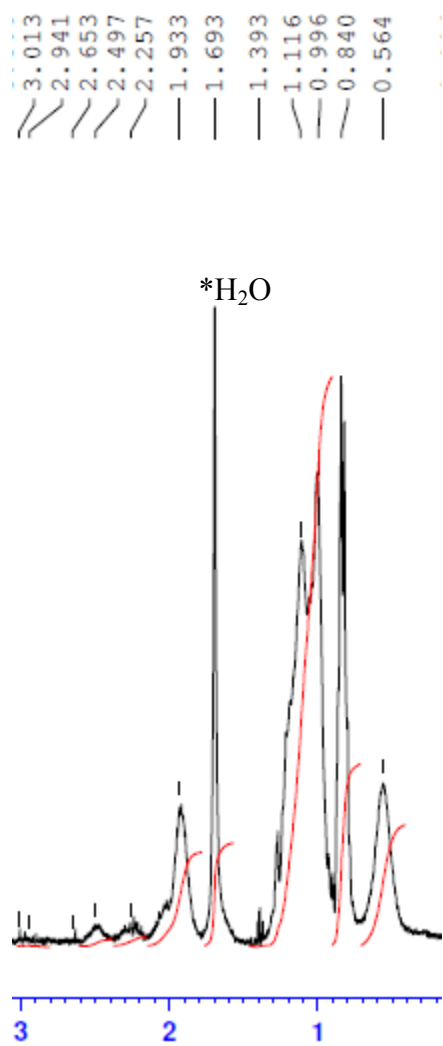


Figure S2. Aliphatic region of the ¹H NMR spectrum of **FLoct** (CDCl₃, 300 MHz).

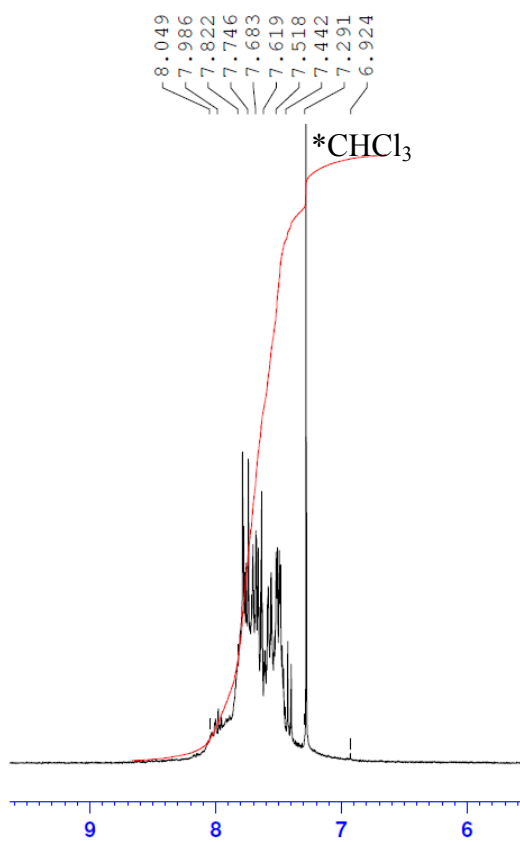


Figure S3. Proton NMR spectrum of **FLone** (CDCl₃, 300 MHz).

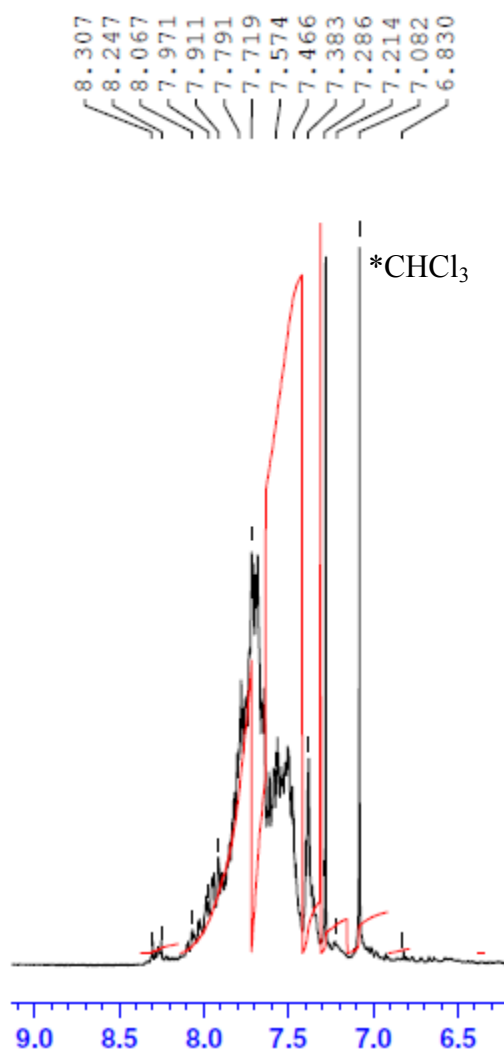


Figure S4. Aromatic region of the ¹H NMR spectrum of **PhOx** (CDCl₃, 300 MHz).

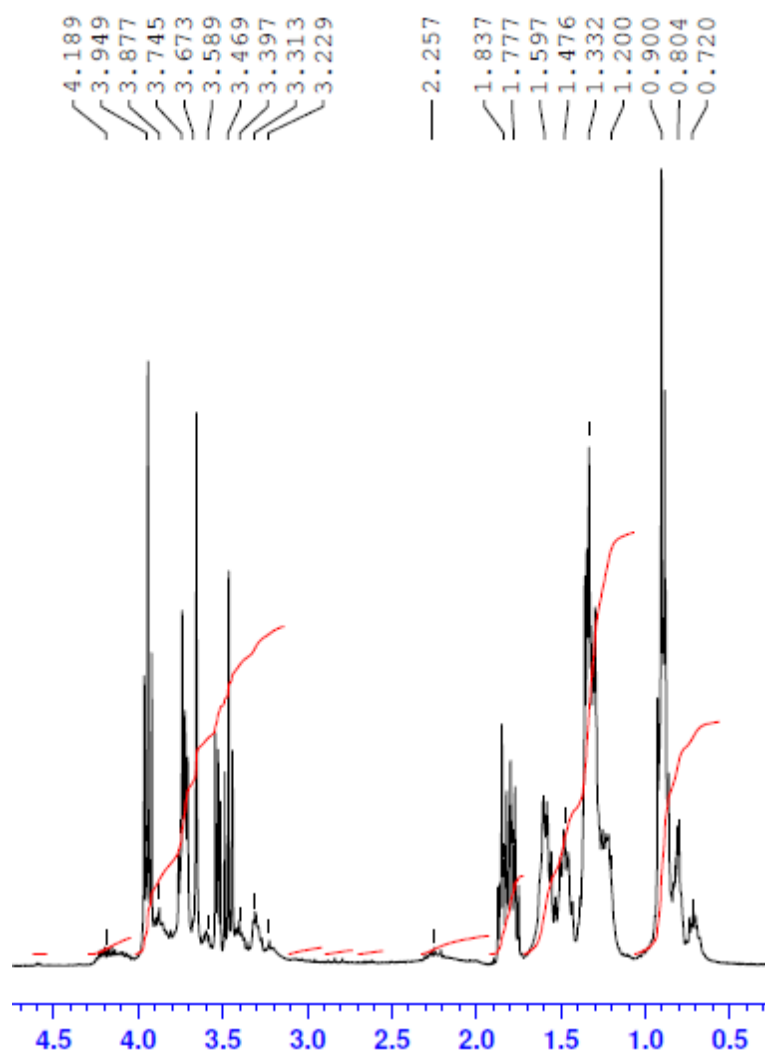


Figure S5. Aliphatic region of the ^1H NMR spectrum of **PhOx** (CDCl_3 , 300 MHz).