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Figure Captions for Supplementary Material

Figure S1. Transient resonance Raman spectra of the ethynyl region of compound I in THF obtained with pulsed excitation at 436 nm. (A) result of subtraction of spectrum (C) from spectrum (B); scaling factor = 8.26; (B) high power (28 mW) spectrum; (C) low power (2.1 mW) spectrum. Excitation wavelength = 436 nm, pulse width = 5 ns, T = 25 °C.

Figure S2. Transient resonance Raman spectra of the ethynyl region of compound I in THF obtained with pulsed excitation at 436 nm. (A) result of subtraction of spectrum (C) from spectrum (B); scaling factor = 7.08; (B) high power (28 mW) spectrum; (C) low power (2.1 mW) spectrum. Excitation wavelength = 436 nm, pulse width = 5 ns, T = 25 °C. Digital subtraction of the spectra was performed with LabCalc version 2.0 (Galactic Industries). Prior to subtraction, the baseline of each spectrum was corrected with the "multiple point" routine in LabCalc. A scaling factor was chosen so that no negative peaks appeared in the difference spectrum. The second-derivative-like feature in the difference spectrum is weak but reproducible, thus indicating broadening of the wings of the ethynyl mode upon high-intensity laser excitation.

Figure S3. Transient resonance Raman spectra of the ethynyl region of compound II in THF obtained with pulsed excitation at 436 nm. (A) result of subtraction of spectrum (C) from spectrum (B); scaling factor = 2.47; (B) high power (16 mW) spectrum; (C) low power (1.2 mW) spectrum. Excitation wavelength = 436 nm, pulse width = 5 ns, T = 25 °C.

Figure S4. Transient resonance Raman spectra of the ethynyl region of compound **II** in THF obtained with pulsed excitation at 436 nm. (A) result of subtraction of spectrum (C) from spectrum (B); scaling factor = 2.55; (B) high power (16 mW) spectrum; (C) low power (1.2 mW) spectrum. Excitation wavelength = 436 nm, pulse width = 5 ns, T = 25 °C. Digital subtraction of the spectra was performed with LabCalc version 2.0 (Galactic Industries). Prior to subtraction, the baseline of each spectrum was corrected with the "multiple point" routine in LabCalc. A scaling factor was chosen so that no negative peaks appeared in the difference spectrum. The second-derivative-like feature in the difference spectrum is weak but reproducible, thus indicating broadening of the wings of the ethynyl mode upon high-intensity laser excitation.







