



Figure S9. HPLC analysis of dimethyl esters **I**, a mixture of isomers, and **II**. Reaction products of BRDE **III** and **IV**: **I** BRDE, 7.4×10^{-4} M, at 402 nm with a flow rate of 1.0 mL/min, 60:40 (v:v) hexane: ethyl acetate on a 5 μ m silica adsorption column, 25 cm. x 4.6 mm. **II** BVDE, 3.75×10^{-4} M, at 658nm with a flow rate of 1.5 mL/min. **III(a)** Reaction mixture from the peroxidation of BRDE, 7.7×10^{-4} M, under oxygen, initiated by AIBN, 2.7×10^{-2} M, in toluene at 80 °C for 60 minutes. Analysis was run at 658 nm with a flow rate of 1.5 mL/min. **III(b)** Sample from **III(a)** mixture with known BVDE at 658 nm with a flow rate of 1.5 mL/min. **IV** Reaction product from the reaction of BRDE with DPPH \cdot (molar ratio of BRDE:DPPH \cdot , 2:1), under argon in toluene, at 658 nm with a flow rate of 1.5 mL/min. The analysis at 402 nm of this sample indicated unreacted BRDE (not shown).