Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Design of New Photosensitizers and Controlled Singlet Oxygen Generation for Photodynamic Therapy

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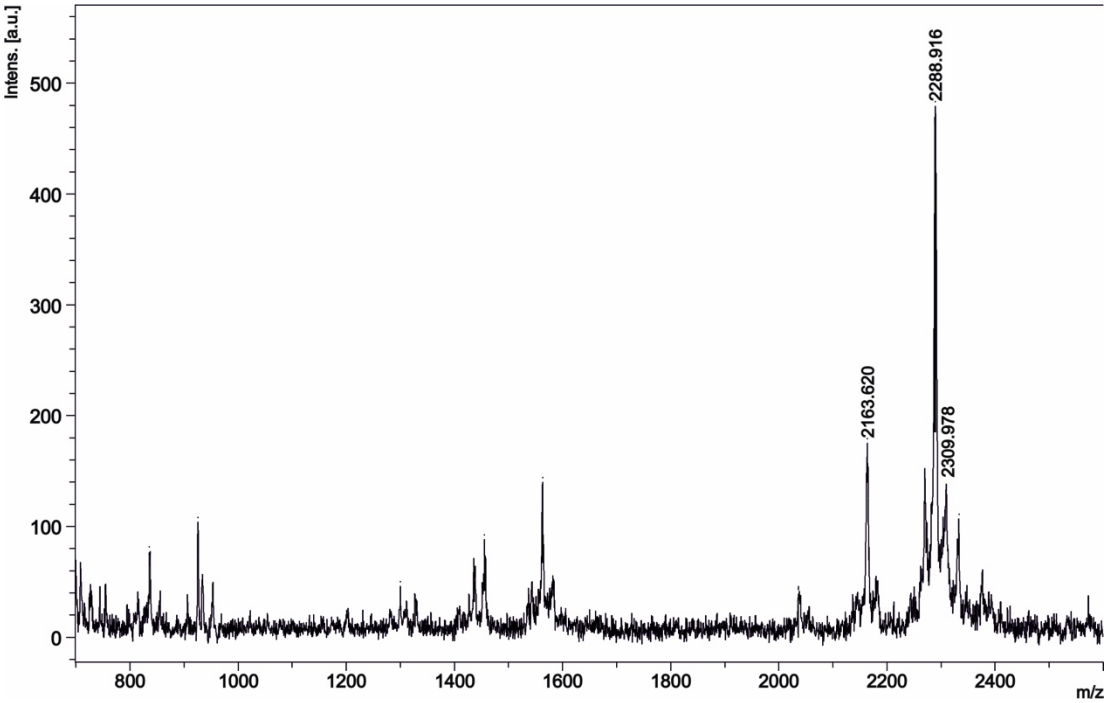

Figure S1: Mass spectrum of compound **5**

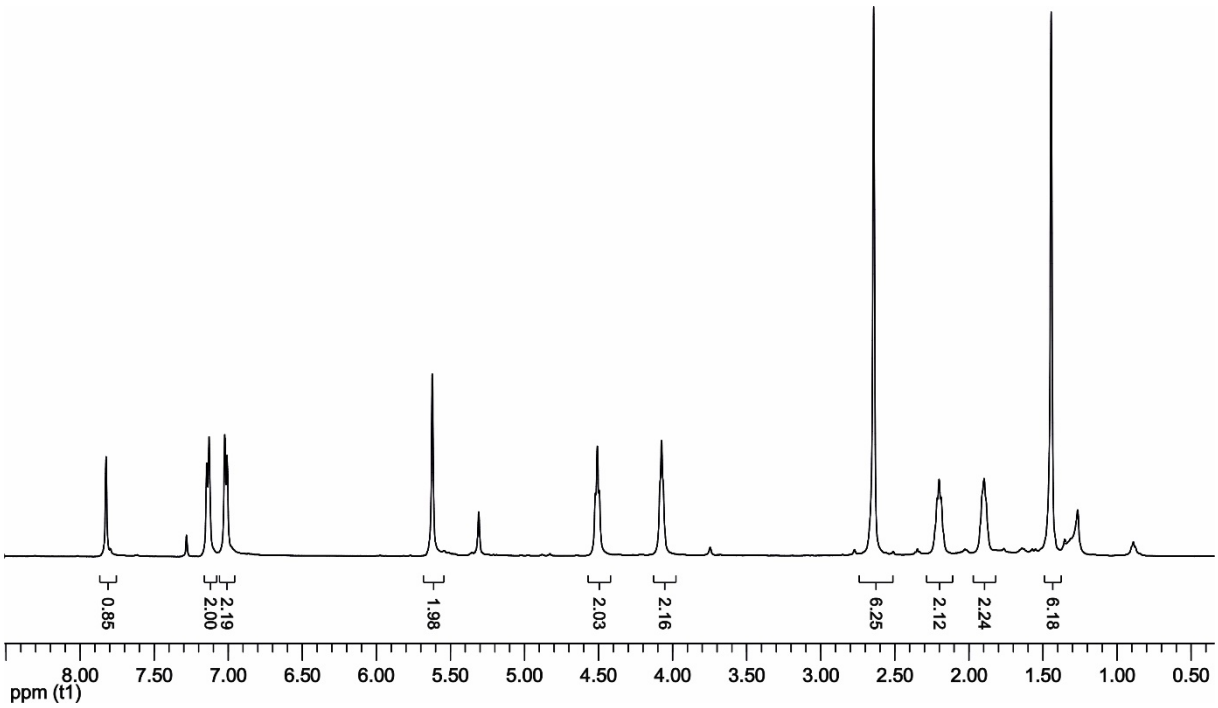

Figure S2: ^{1}H NMR spectrum of compound **5**

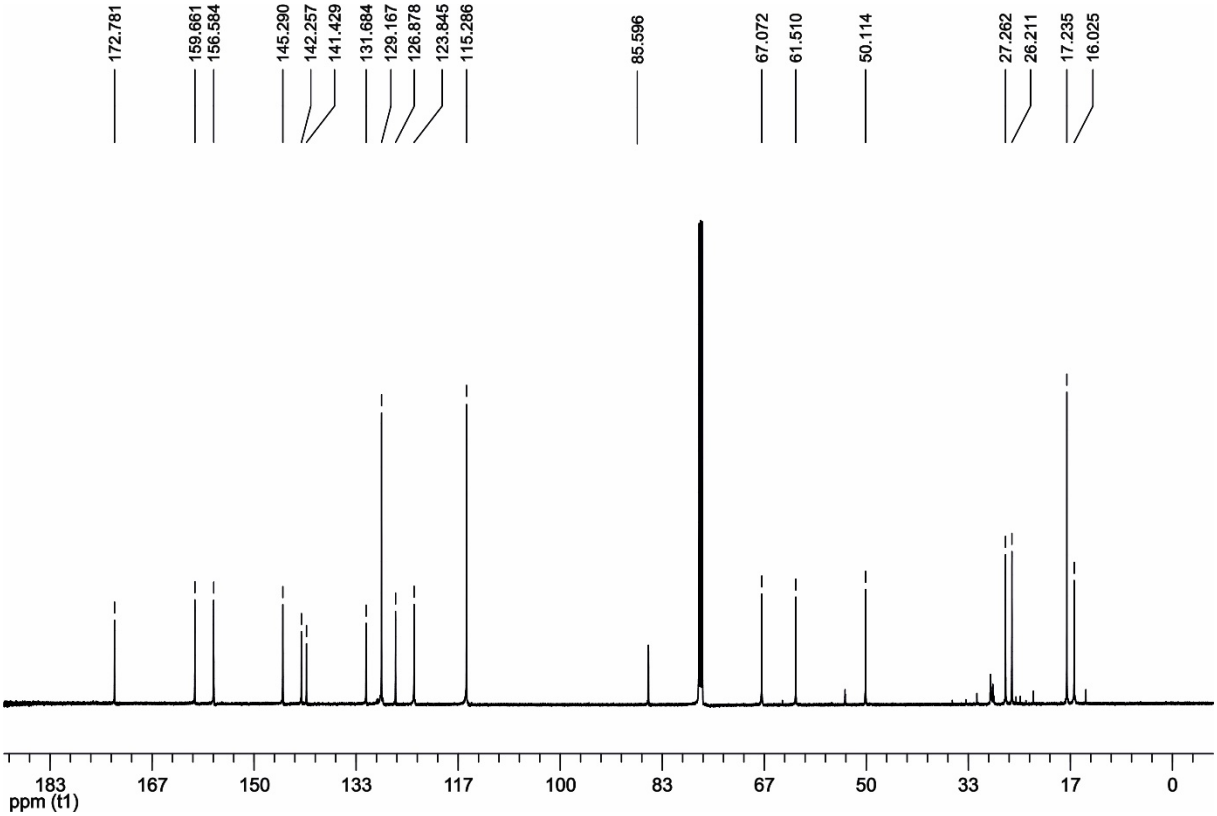

Figure S3: ^{13}C NMR spectrum of compound

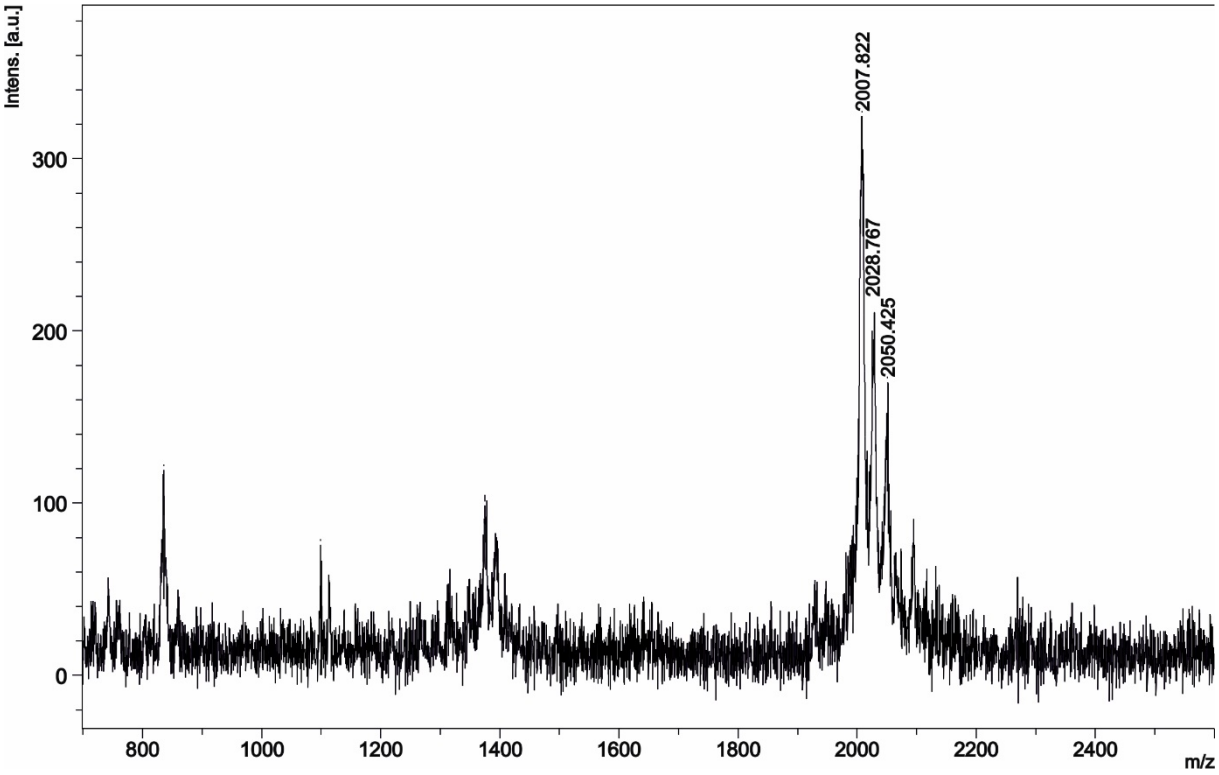

Figure S4: Mass spectrum of compound **6**

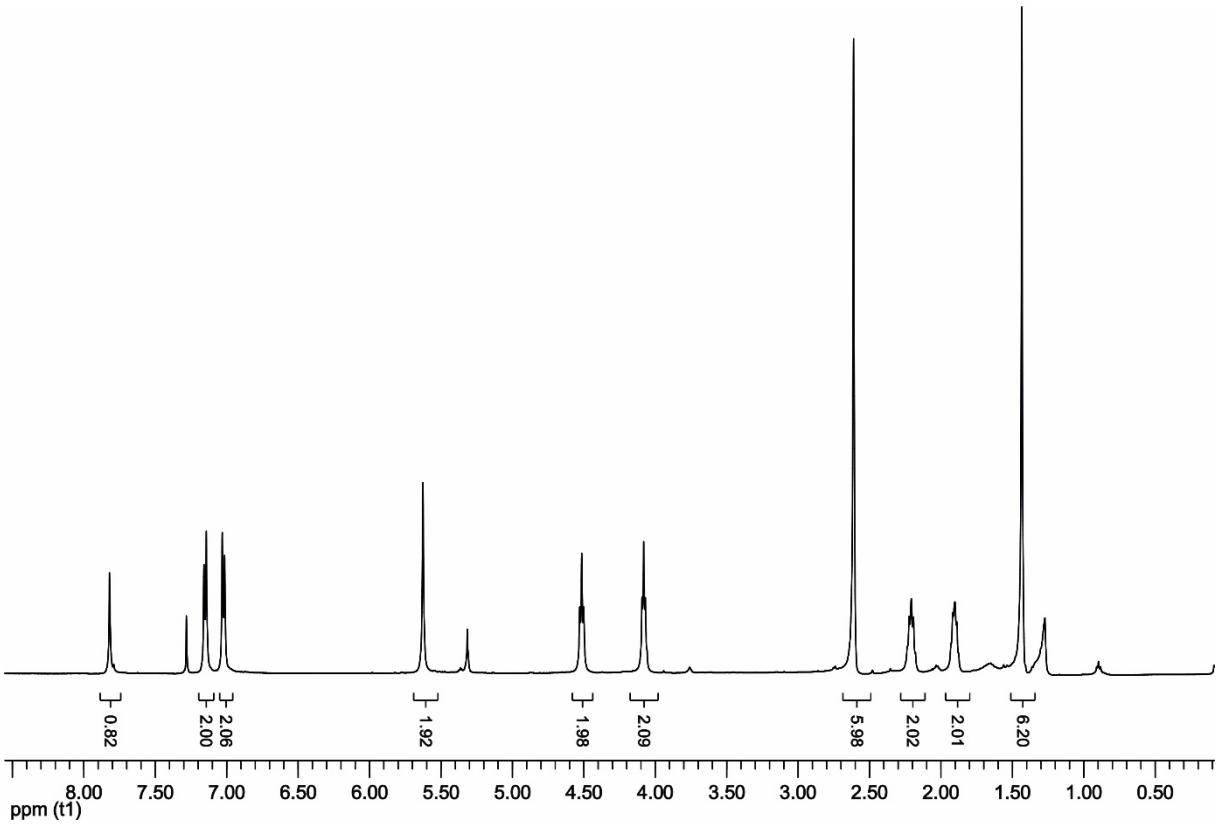

Figure S5: ^{1}H NMR spectrum of compound **6**

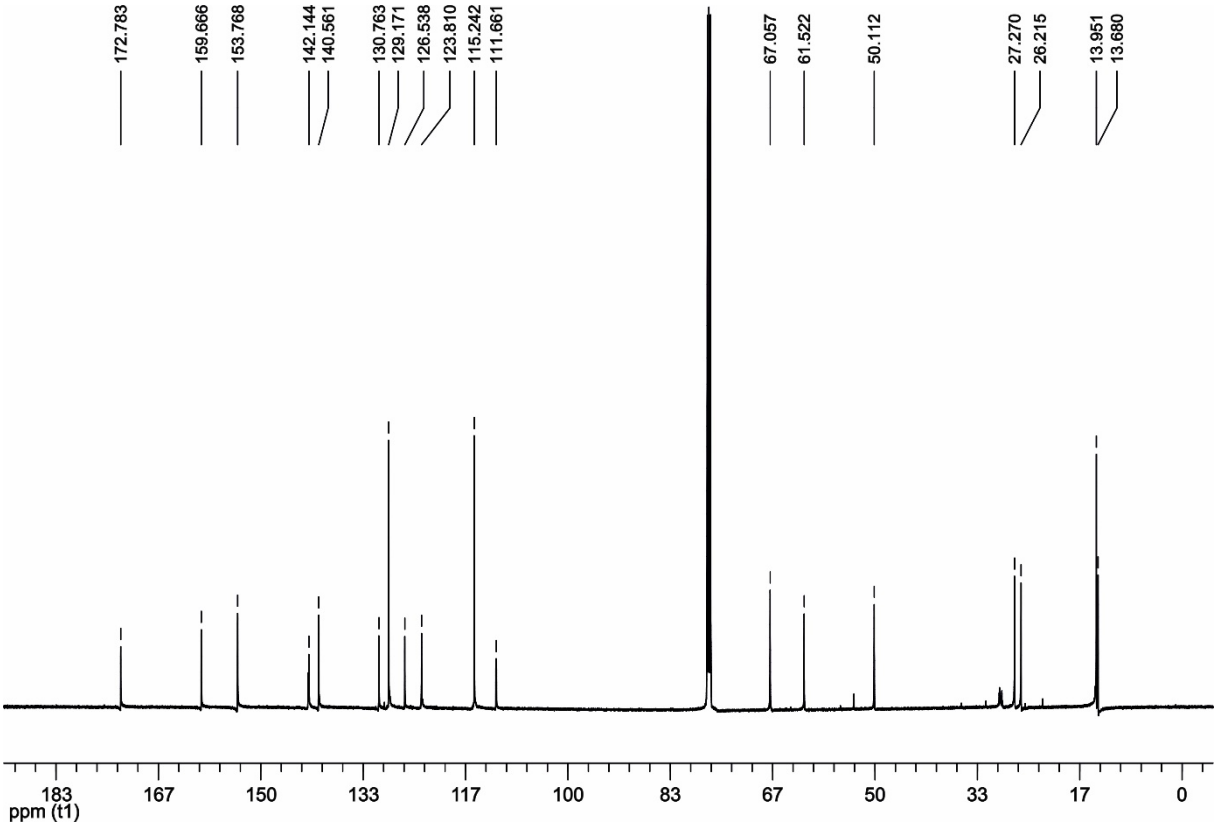

Figure S6: ^{13}C NMR spectrum of compound **6**

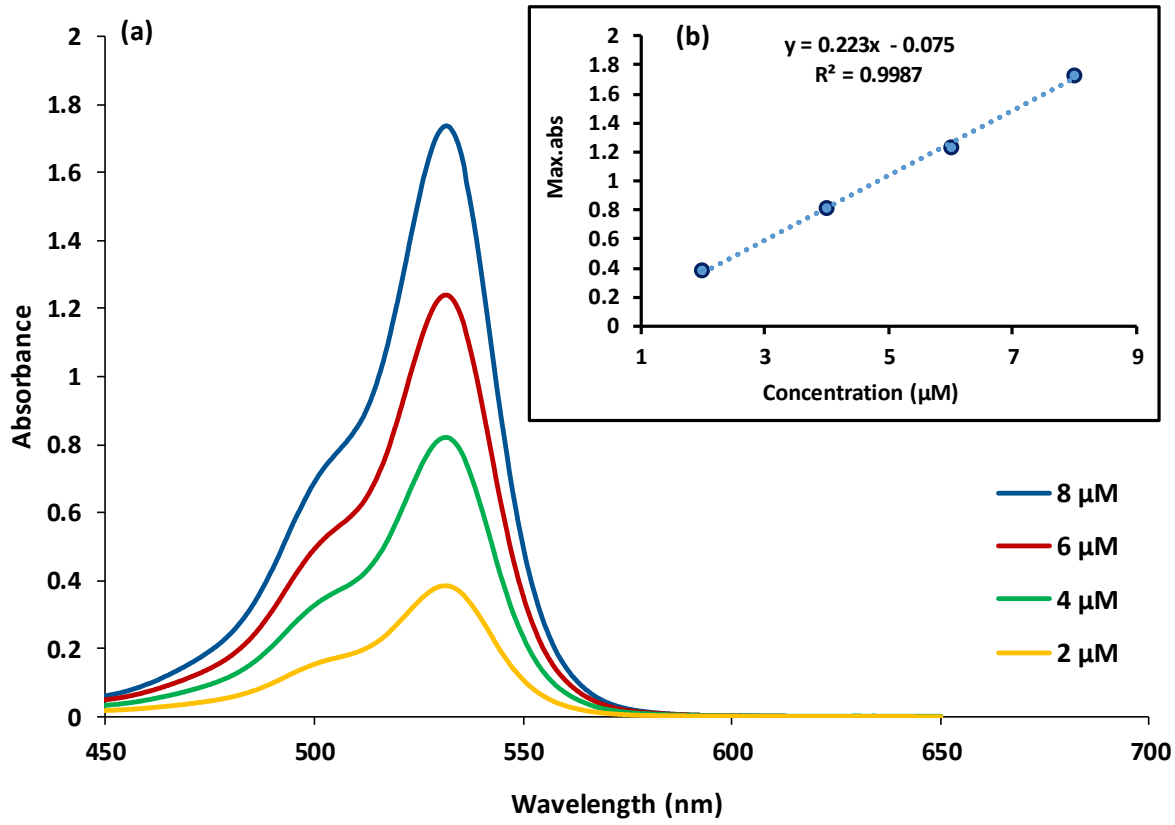

Figure S7: Absorbance spectrum of **5** in ethanol at different concentration.

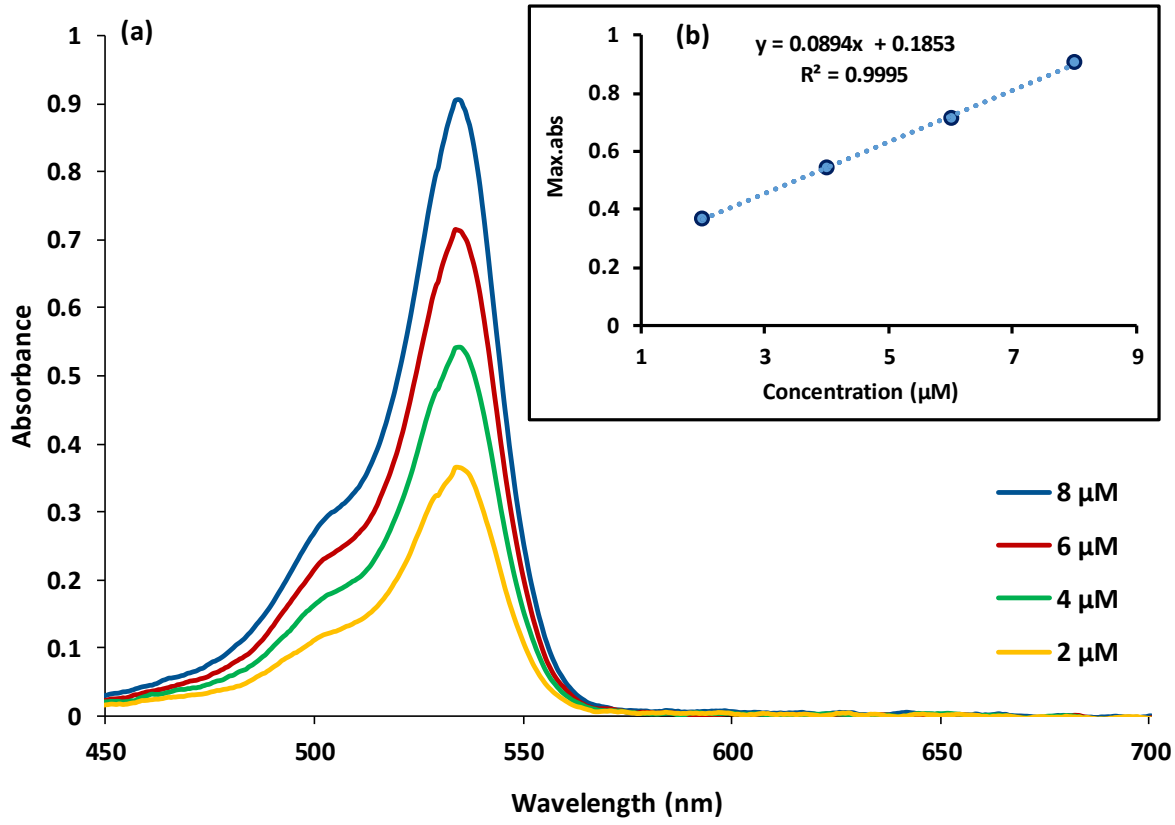

Figure S8: Absorbance spectrum of **6** in ethanol at different concentration.

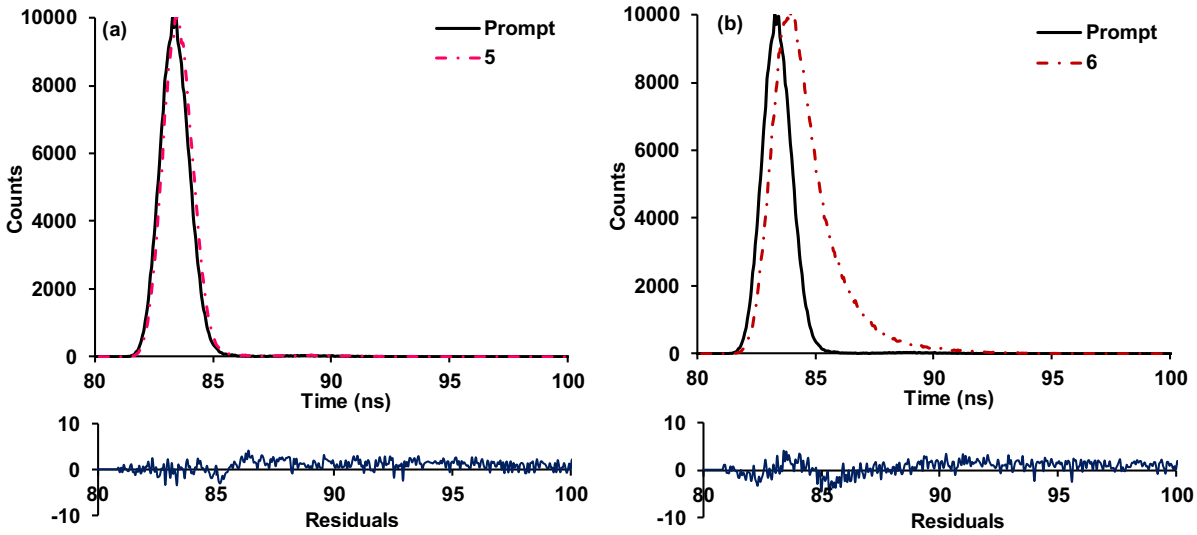

Figure S9: Fluorescence decay profiles of **5** and **6** in the presence using laser excitation source of 390 nm.

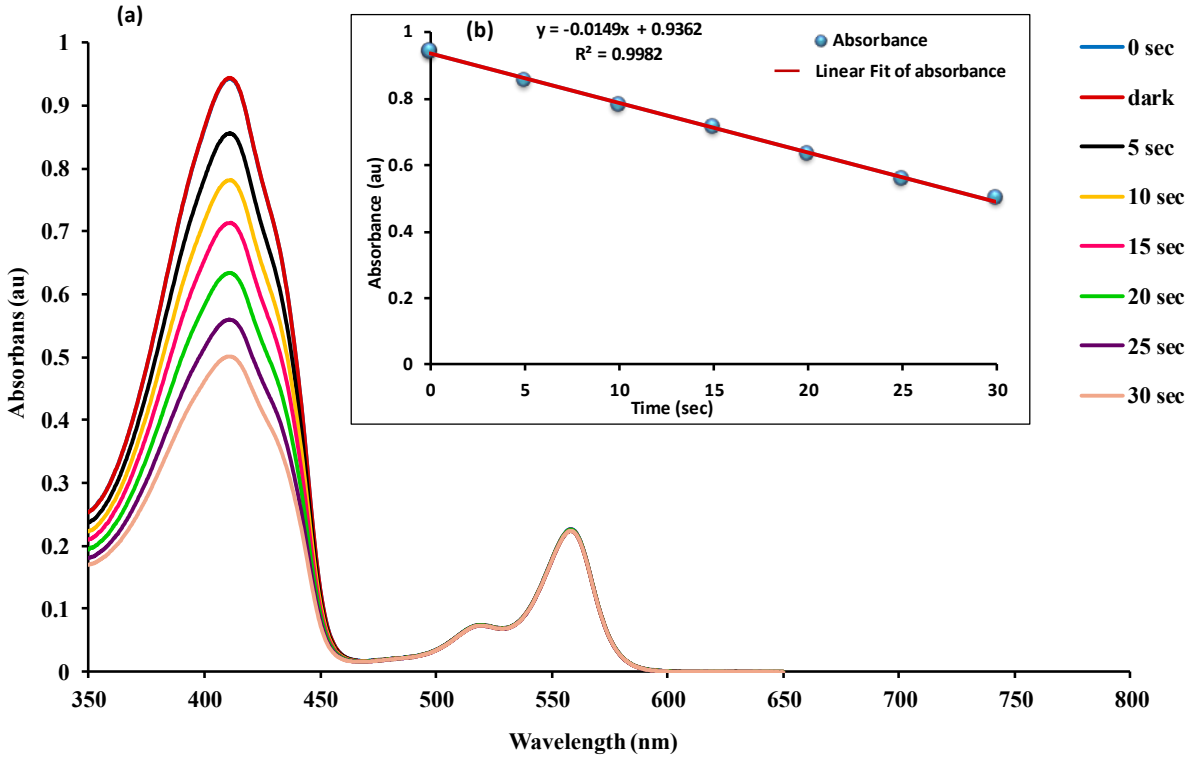

Figure S10 (a) Decrease in absorbance spectrum of trap molecule DBPF in the presence of RB (2.0 µM) in ethanol. **(b)** Absorbance decrease of DPBF at 414 nm with time in ethanol in the presence of RB.

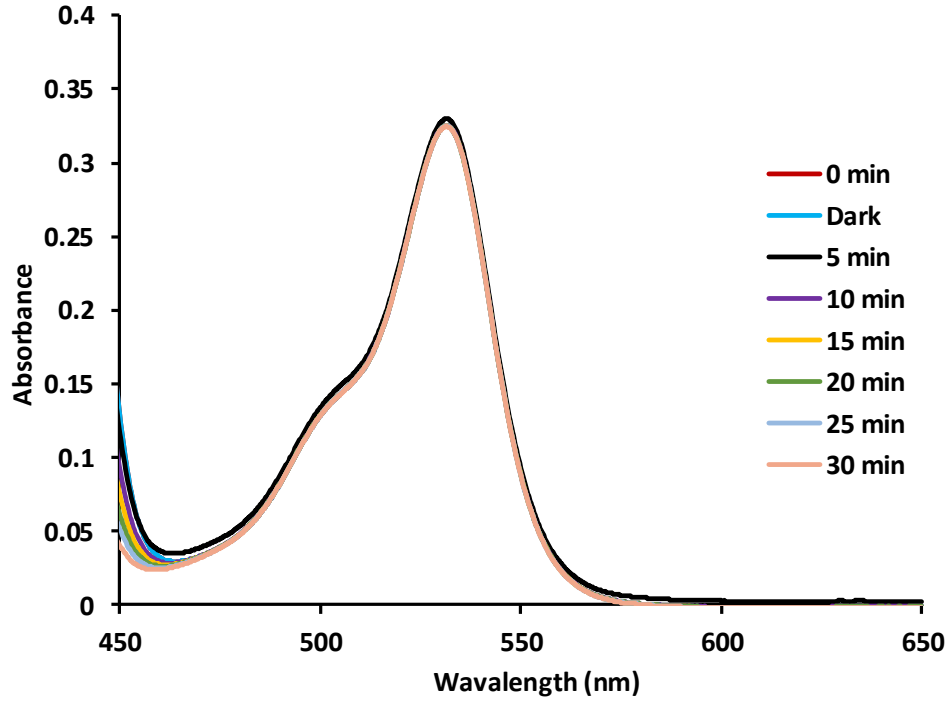

Figure S11. Absorbance spectrum of compound **5** (2.0 µM) for photodegradation study in ethanol under the light source (Green Led, λ= 516 nm, 2.1 mW cm^{-2})

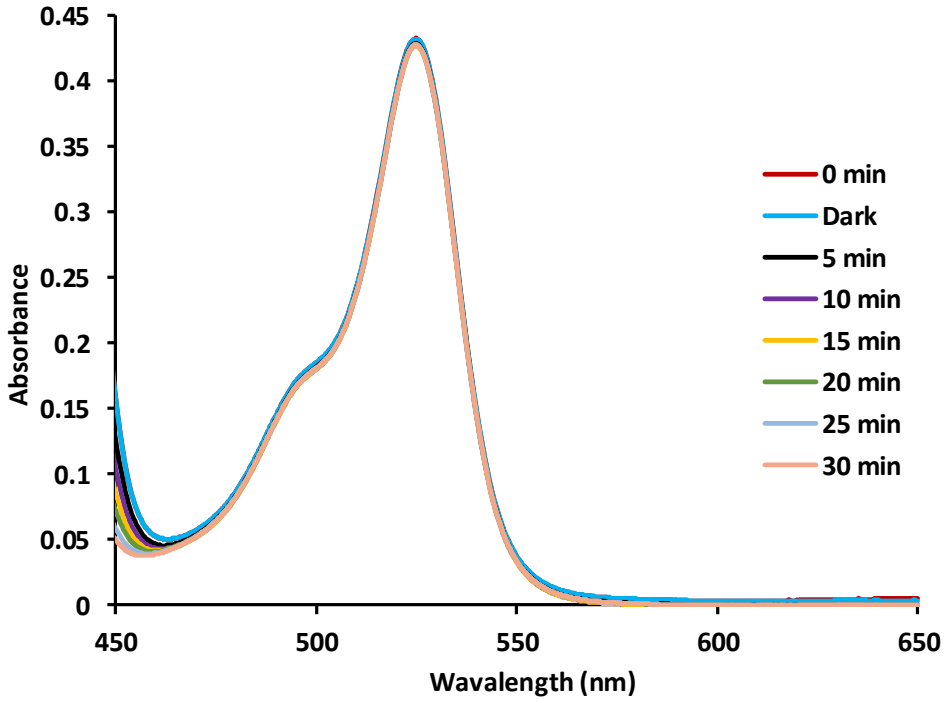

Figure S12. Absorbance spectrum of compound **6** (2.0 µM) for photodegradation study in ethanol under the light source (Green Led, λ= 516 nm, 2.1 mW cm^{-2})

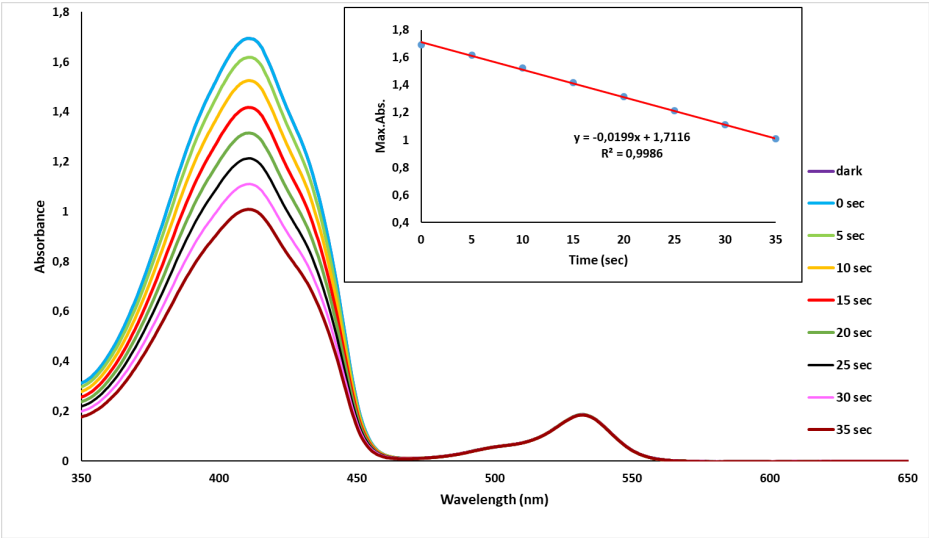

Figure S13. Decrease in absorbance spectrum of DPBF in the presence of compound **2** (2.0 µM) in ethanol.

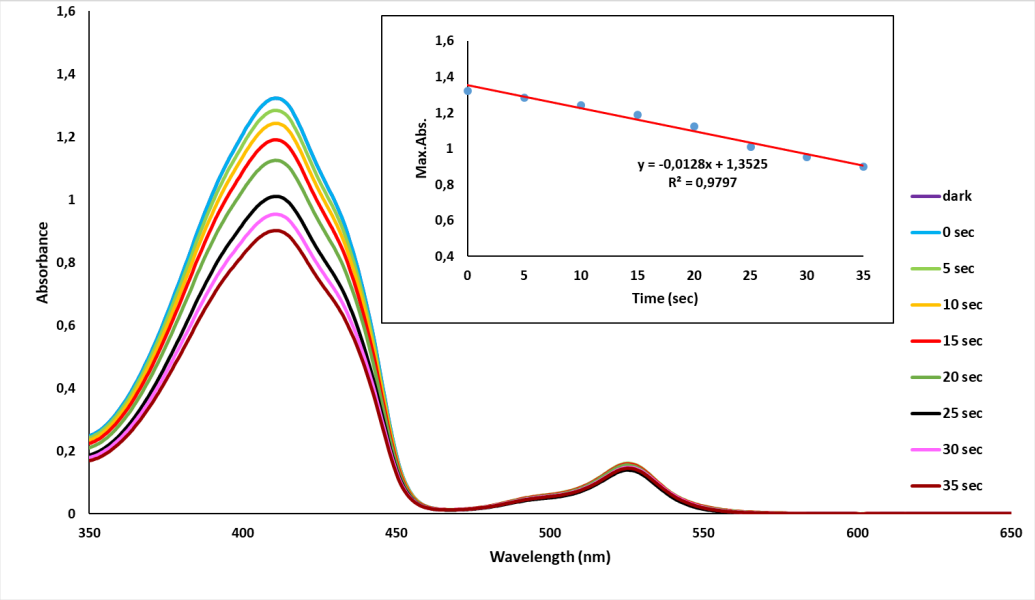

Figure S14. Decrease in absorbance spectrum of DPBF in the presence of compound **3** (2.0 μM) in ethanol.