

Supporting Information

Cyclopolymerizable and cyclopolymeric photoinitiators from diallyl amine and α -hydroxy ketones

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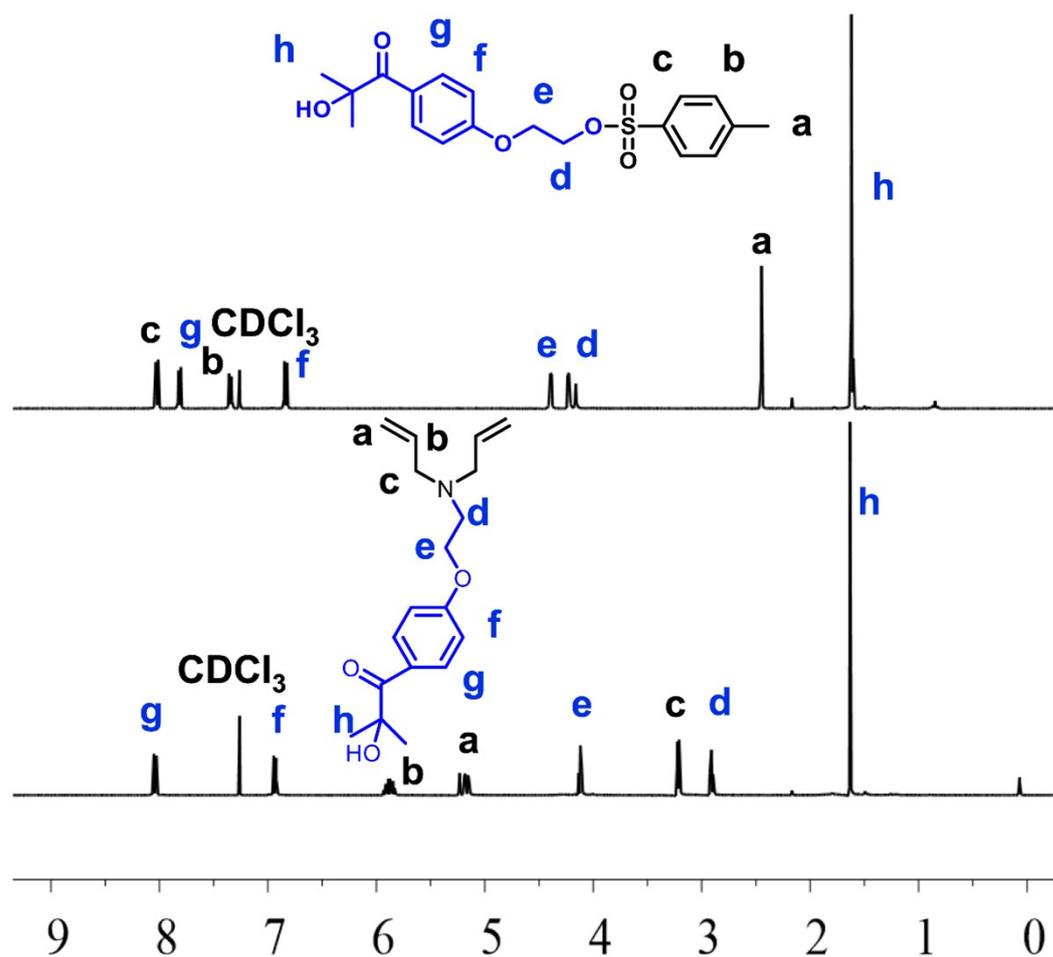


Figure S1. ^1H NMR spectra of I2959-Ts and DAA-I2959.

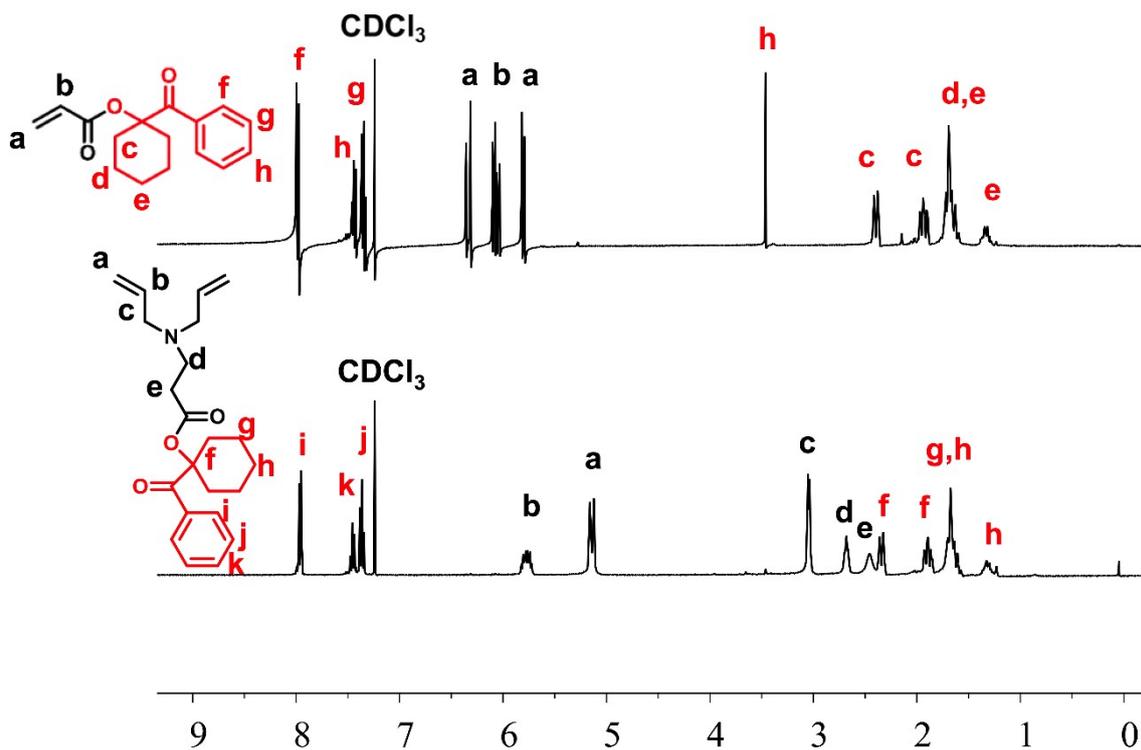


Figure S2. ^1H NMR spectra of acrylate ester of I184 and DAA-I184.

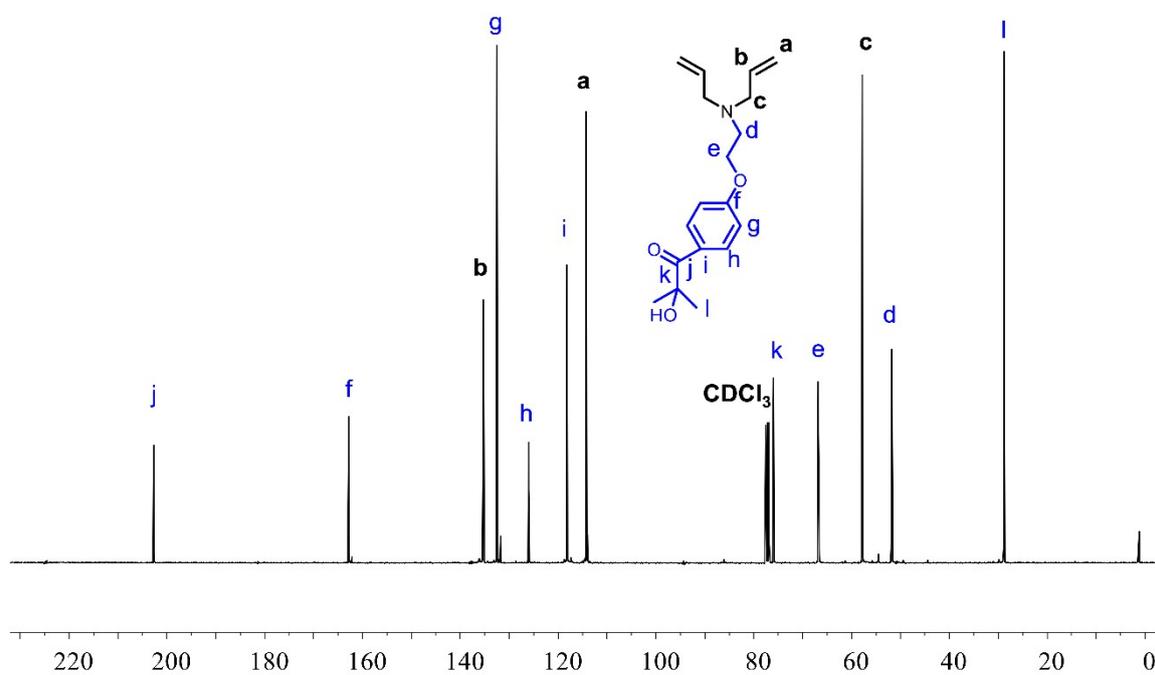


Figure S3. ^{13}C NMR spectrum of DAA-I2959.

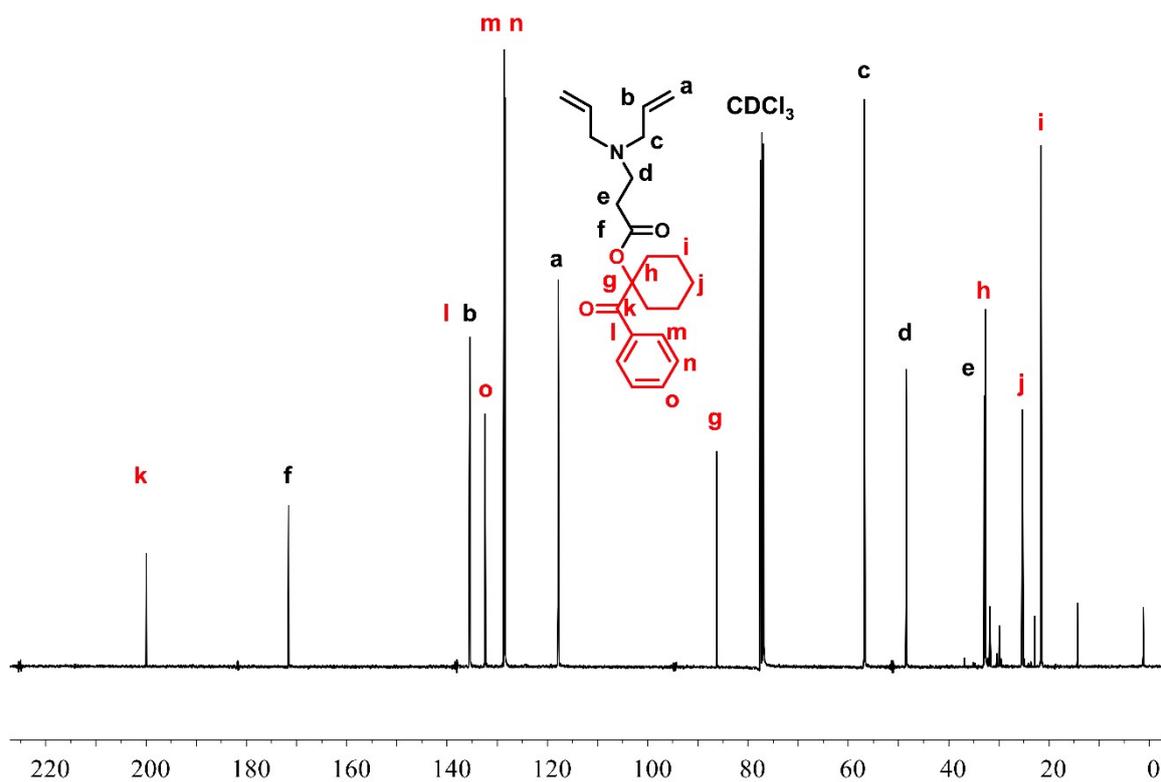


Figure S4. ^{13}C NMR spectrum of DAA-I184.

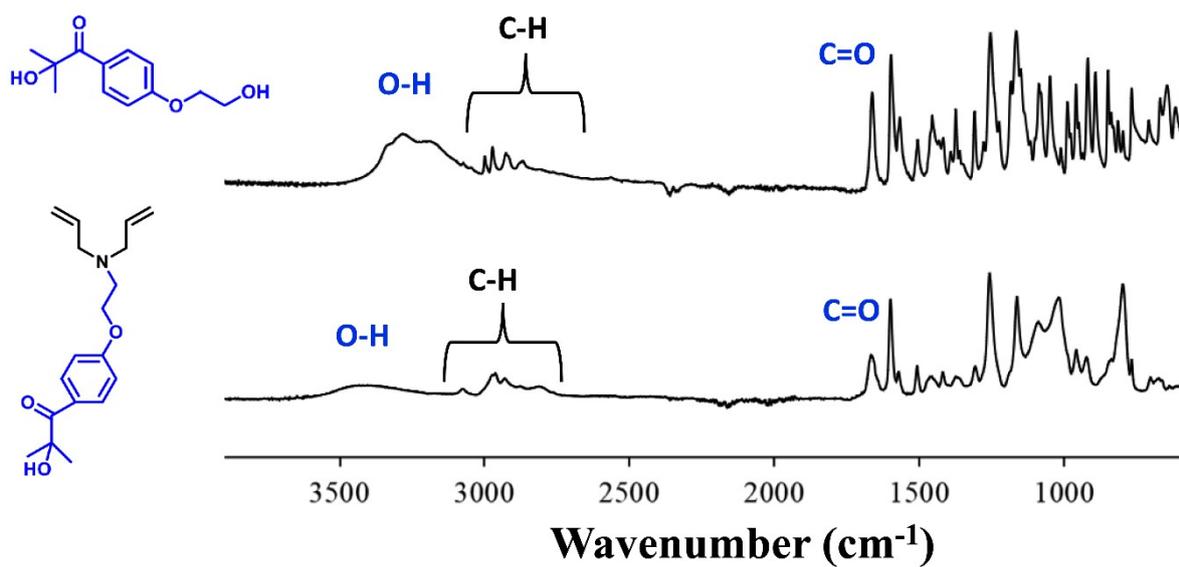


Figure S5. FTIR spectra of DAA-I2959 and I2959.

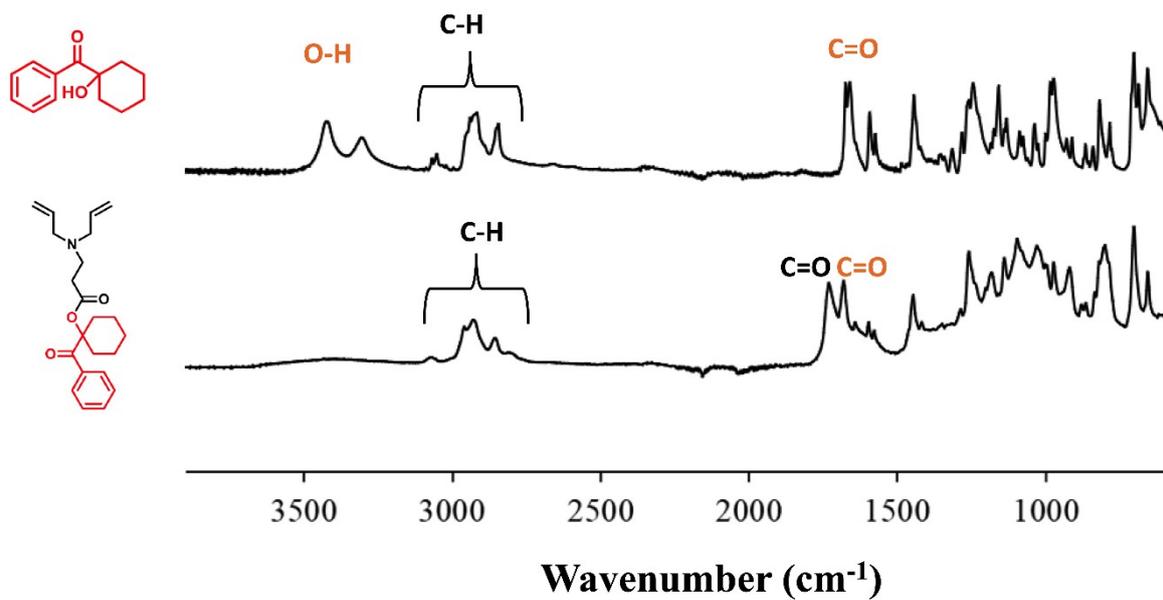


Figure S6. FTIR spectra of DAA-I184 and I184.

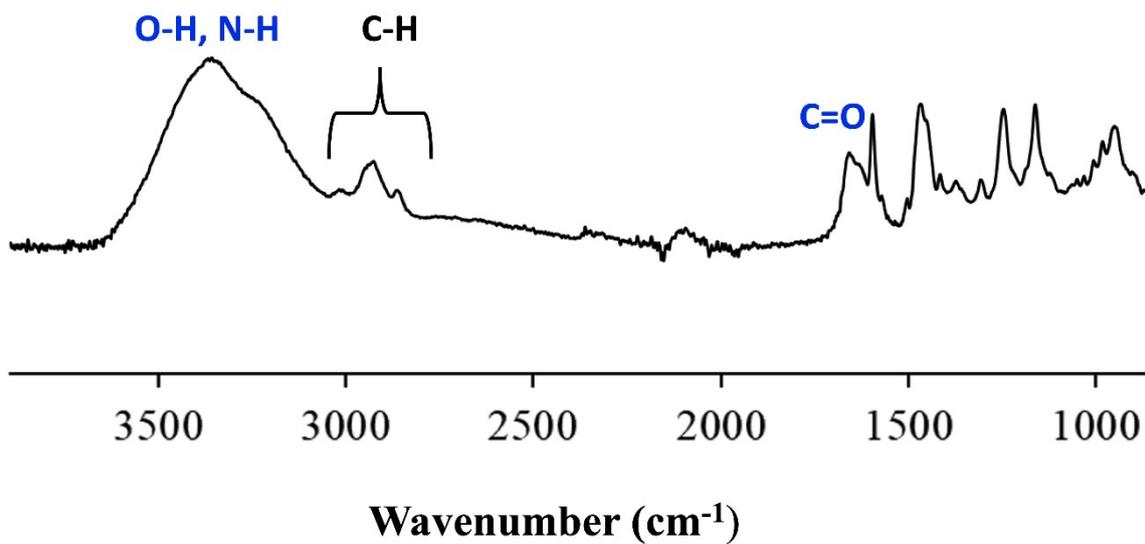


Figure S7. FTIR spectrum of p-DADMAC-co-DAA-I2959-QS.

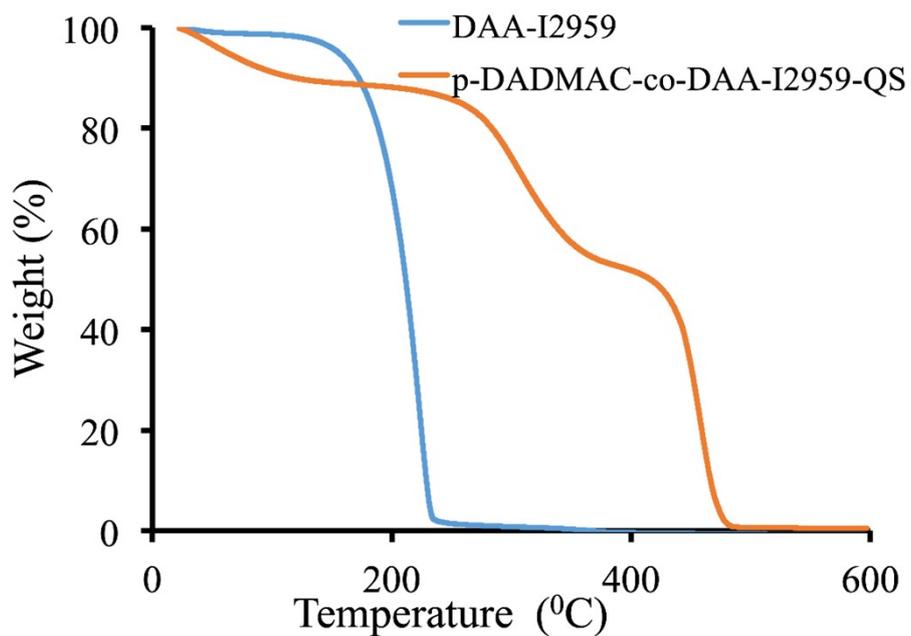


Figure S8. TGA spectrum of DAA-I2959 and p-DADMAC-co-DAA-I2959-QS.

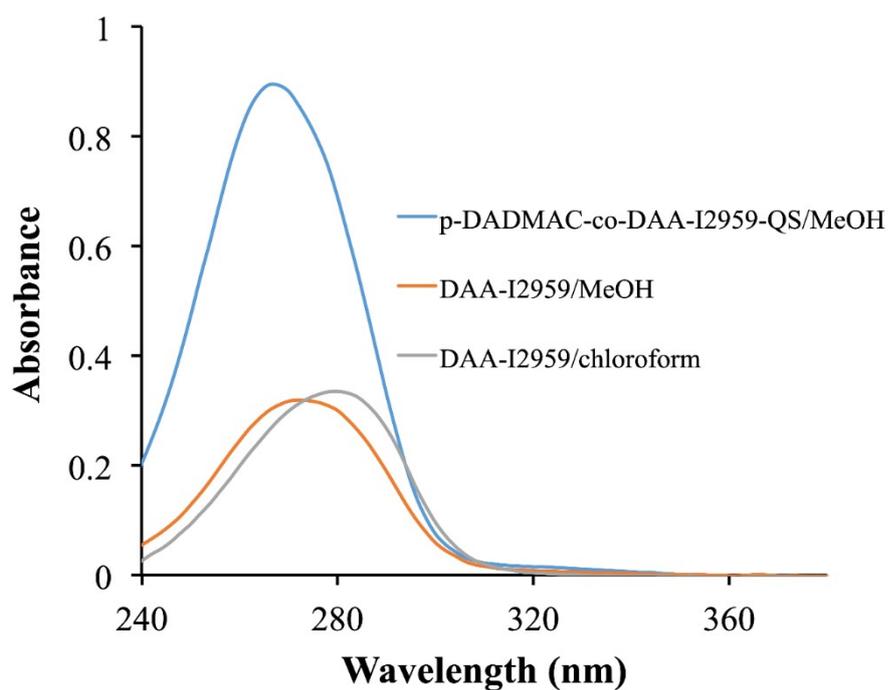


Figure S9. UV-vis absorption spectra of DAA-I2959 (2×10^{-5} M) in MeOH and CHCl_3 and p-DADMAC-co-DAA-I2959-QS (0.2×10^{-6} M) in methanol.

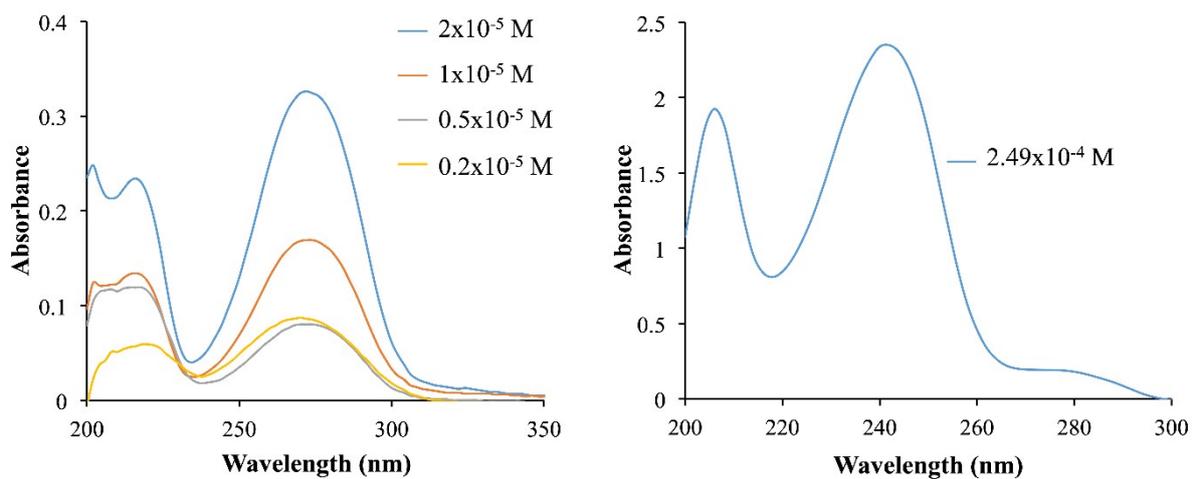


Figure S10. UV-vis absorption spectra of I2959 and DAA-I184 in MeOH.

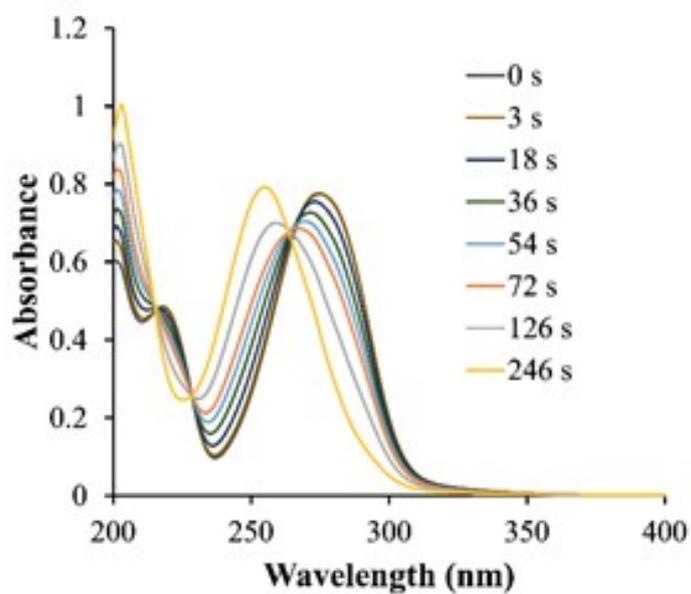


Figure S11. Photolysis of DAA-I2959 (4.12×10^{-5} M) in methanol using a 320-500 nm light source.

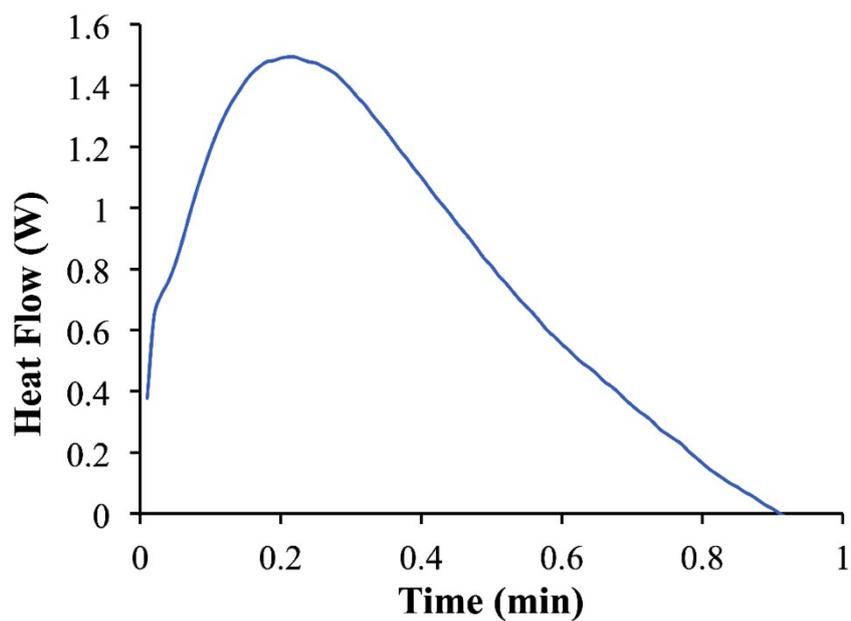


Figure S12. Heat flow-time plot for DAA-I2959 at 30 °C under nitrogen irradiated by 320-500 nm.

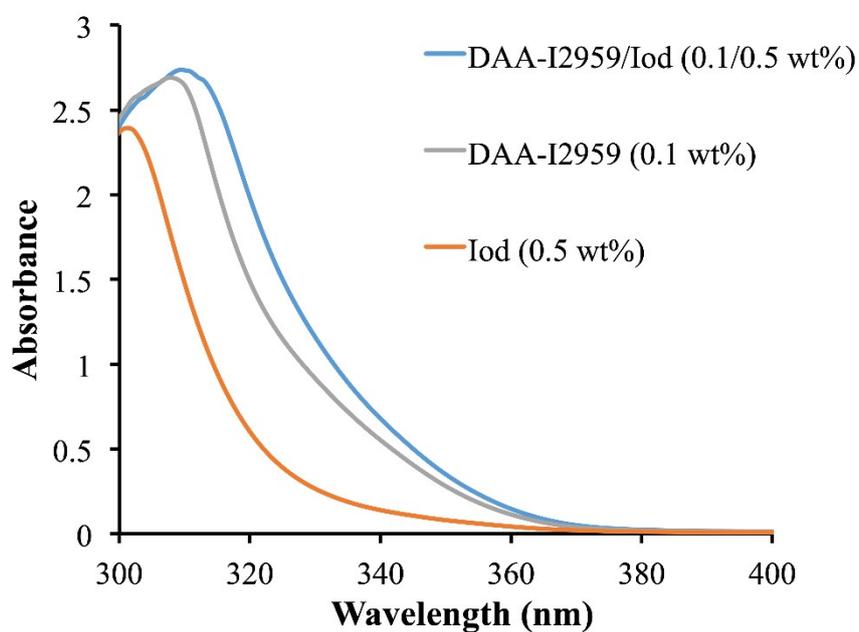


Figure S13. Absorption spectra of DAA-I2959/Iod (0.1/0.5 wt%), DAA-I2959 (0.1 wt%) and Iod (0.5 wt%) in HEMA.