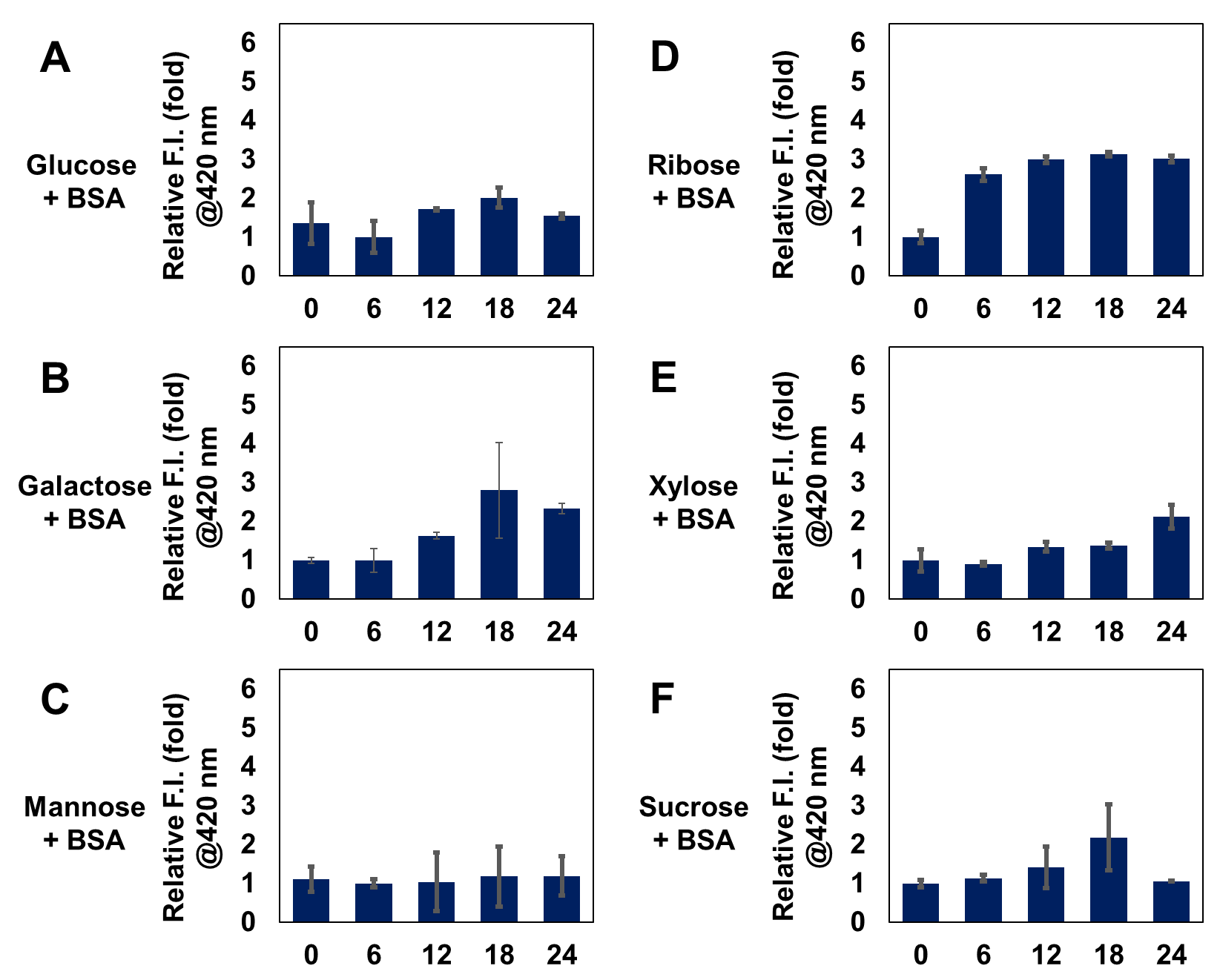
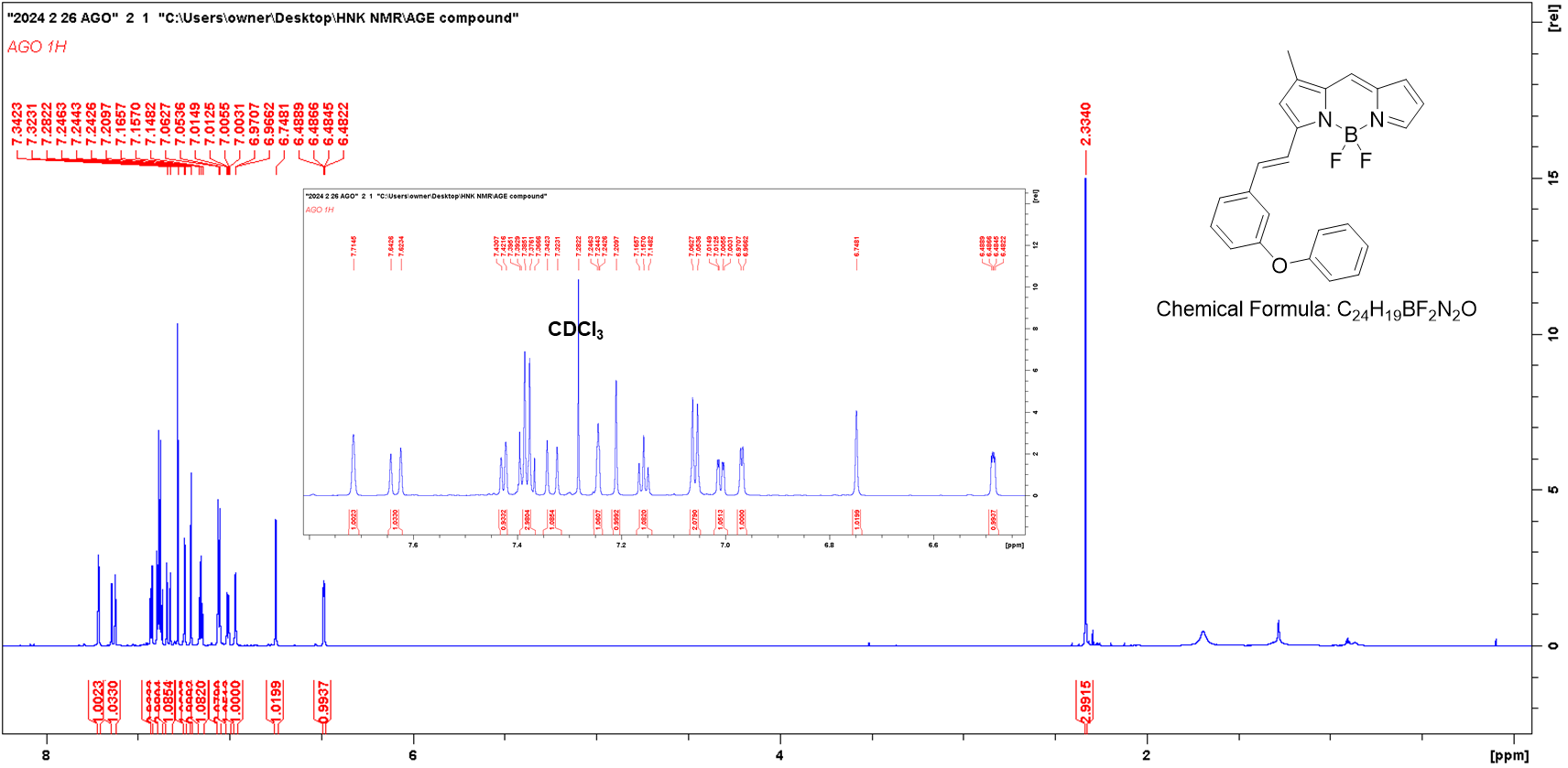


**Figure S1. TEM images support AGE formation compared to only BSA.**

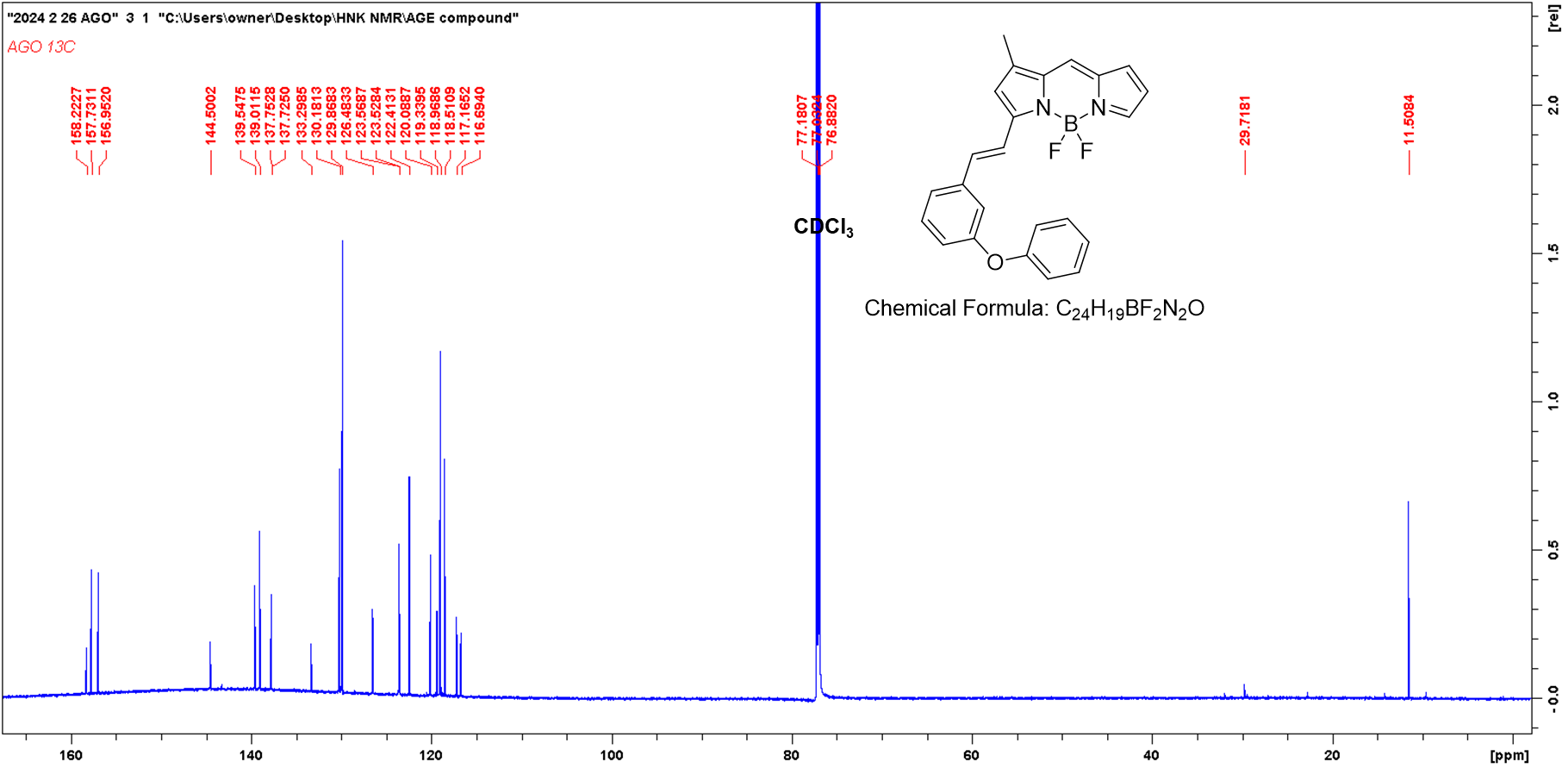
**Figure S1.** TEM images support AGE formation compared to only BSA.



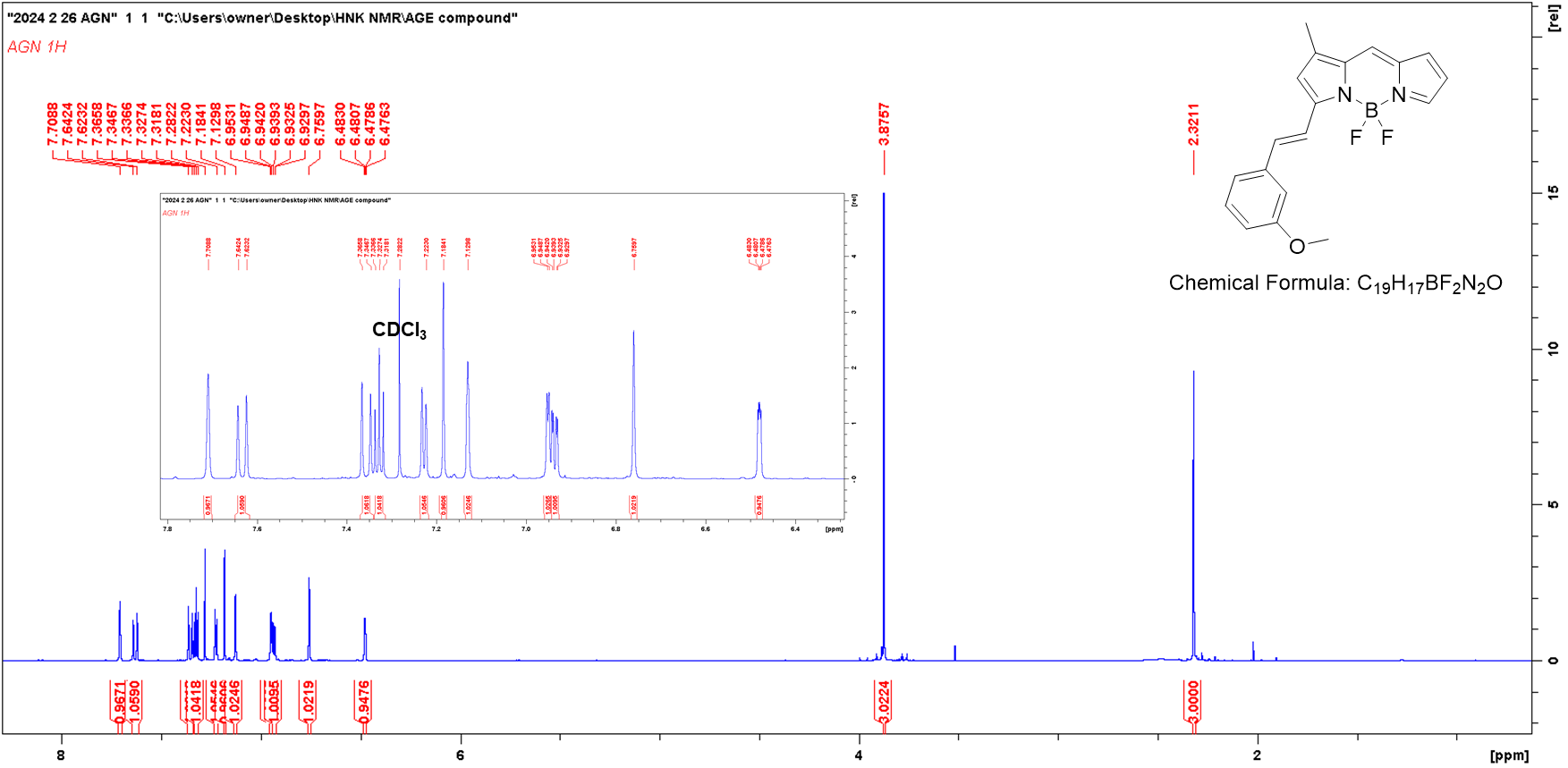
**Figure S2.** Autofluorescence from carbohydrate type-dependent AGEs formation. AGEs were formed by A) Glucose; B) Galactose; C) Mannose; D) Ribose; E) Xylose; and F) Sucrose along with BSA incubation until 24 days at intervals of 6 days. Autofluorescence was measured by the plate reader (ex: 370 nm, em: 420 nm).



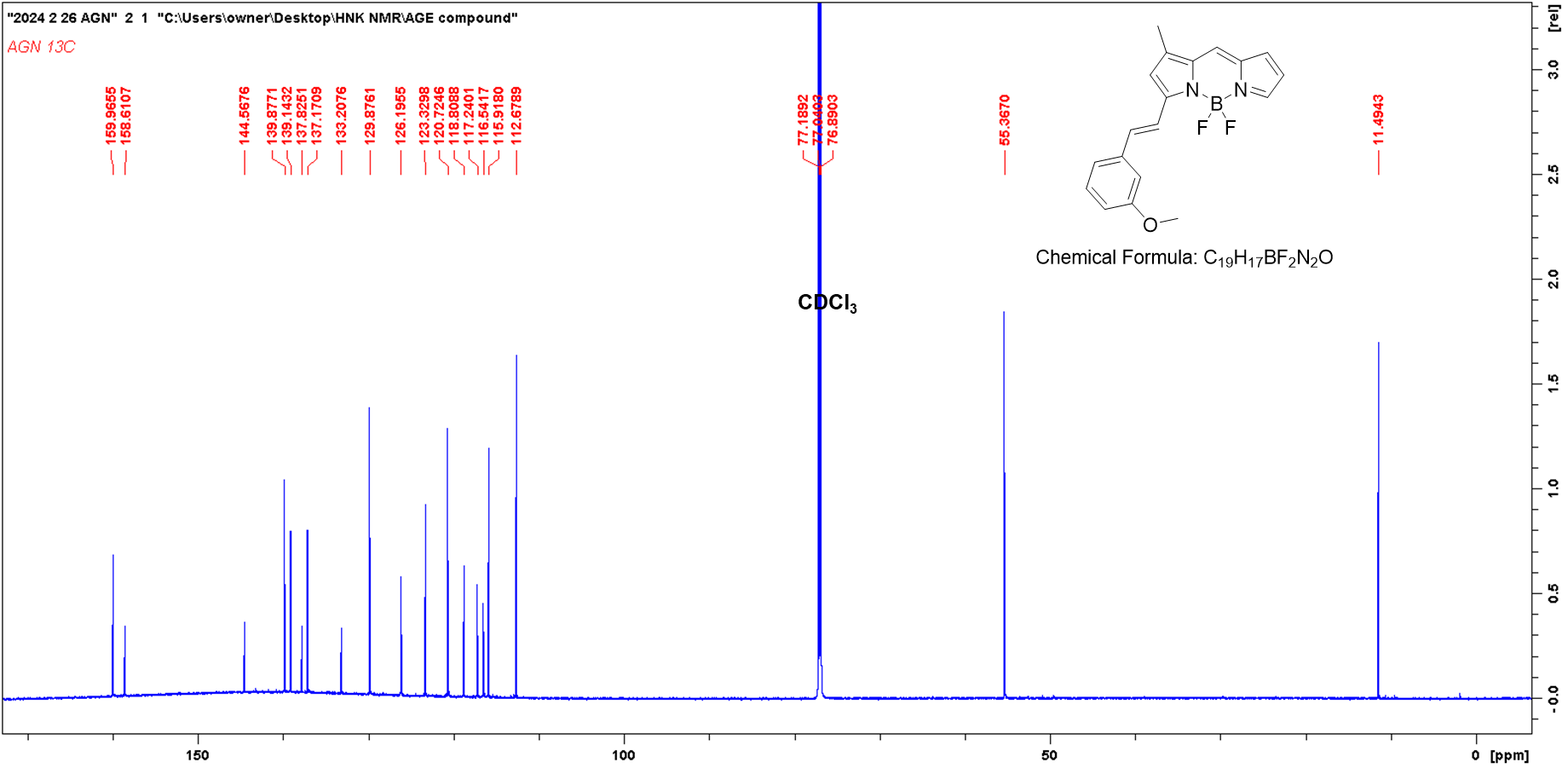
**Figure S3.** 1H NMR spectrum of AGO (850 MHz, CDCl3).



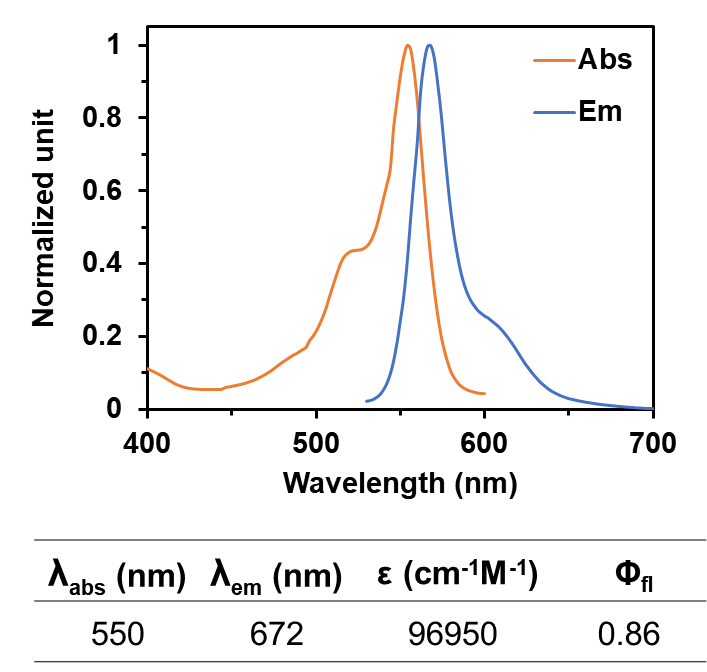
**Figure S4.** 12C NMR spectrum of AGO (214 MHz, CDCl3).



**Figure S5.** 1H NMR spectrum of AGN (850 MHz, CDCl3).



**Figure S6.** 12C NMR spectrum of AGN (214 MHz, CDCl3).



**Figure S7.** Optical properties of AGO.