

New Porphyrin-based Dendrimers with alkene linked Fluorenyl Antennae for Optics

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Supporting Information

Including:

1. Characterization of the Porphyrins 1b and 2b p. S2-5

- a. ^1H and ^{13}C NMR Spectra of the Porphyrins **1b** and **2b**
- b. H-RMS Spectra of the Porphyrins **1b** and **2b**

2. Dependence of Intensity vs. Fluence for Porphyrins 1b and 2b p. S6

1.Characterization of the Porphyrins (1b-2b)

a.¹H and ¹³C NMR Spectra of the Porphyrins 1b and 2b

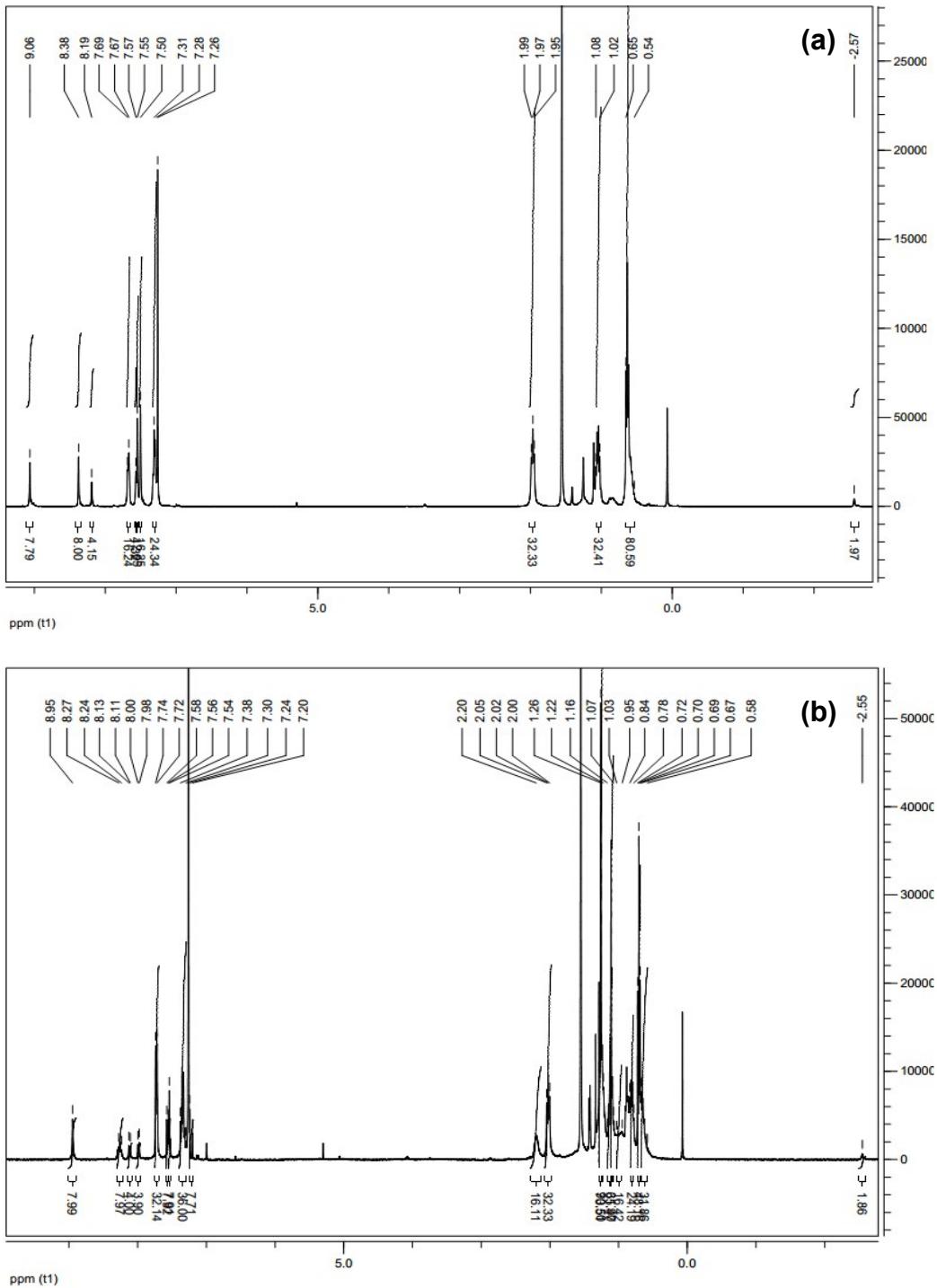


Figure S1. ¹H NMR Spectra at 400 MHz for **1b** (a) and **2b** (b) in CDCl₃.

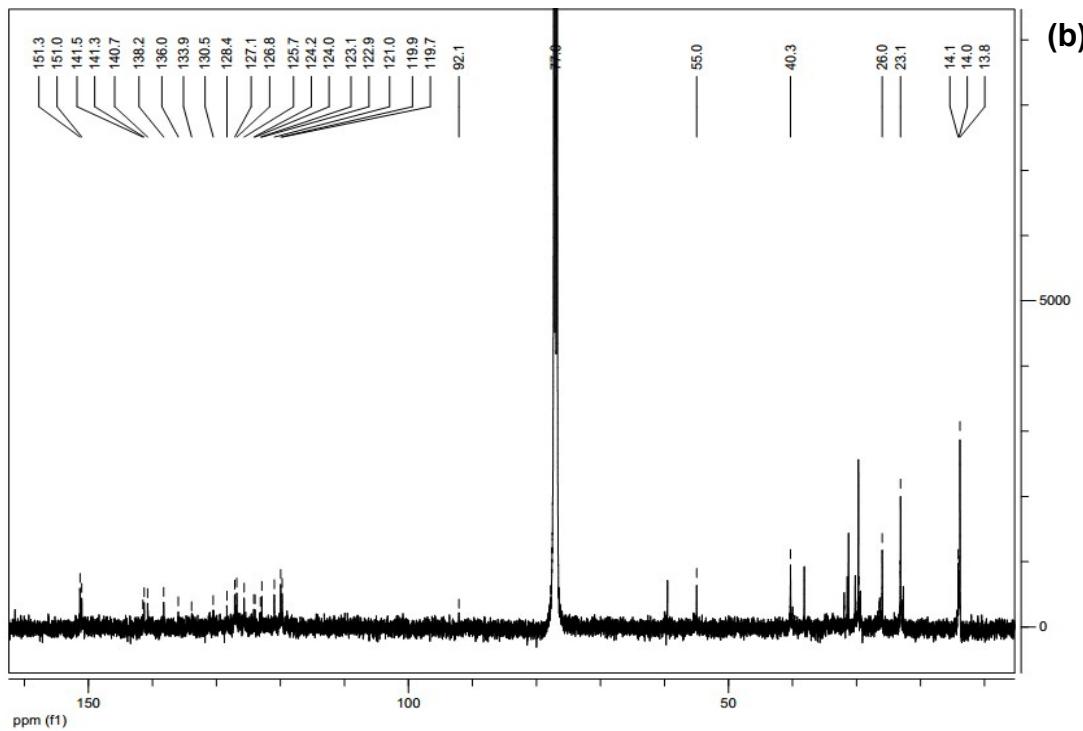
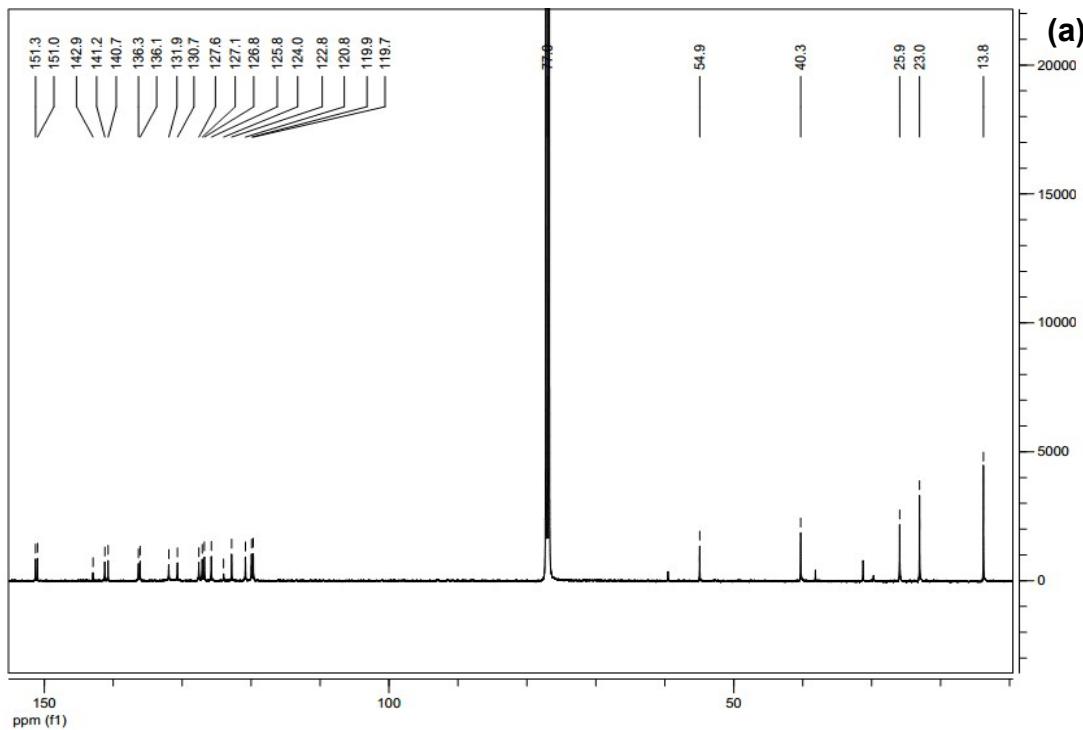


Figure S2. ^{13}C NMR Spectra at 125 MHz for **1b** (a) and **2b** (b) in CDCl_3 .

b. HRMS Spectra of the Porphyrins 1b and 2b

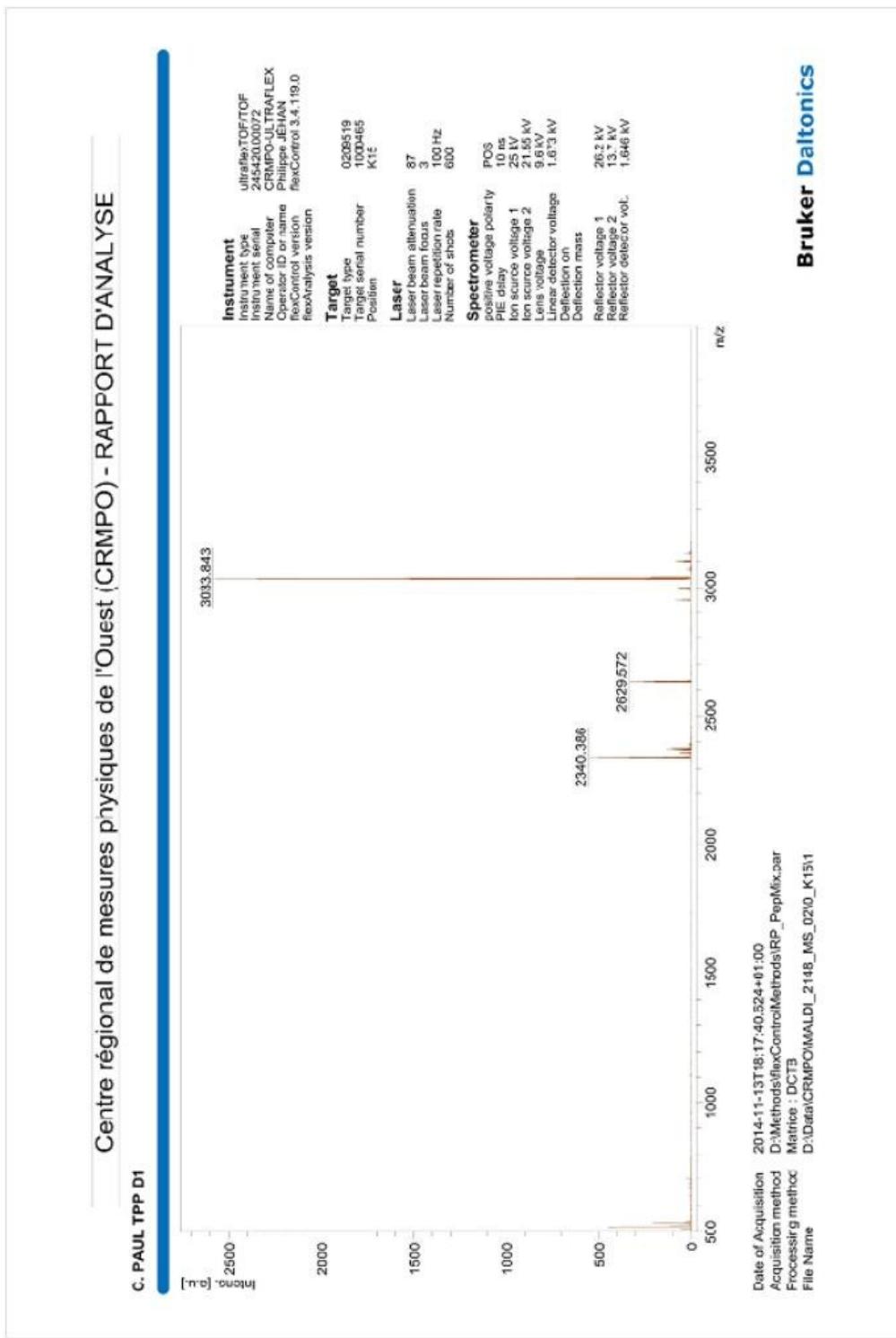
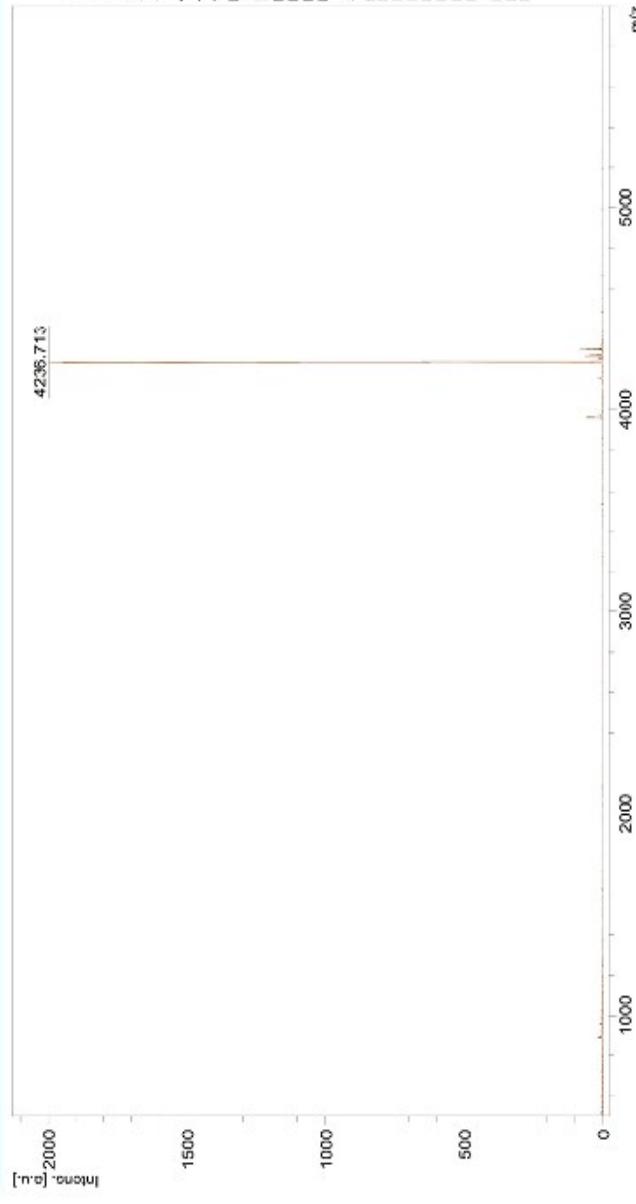


Figure S3. HRMS Spectrum for **1b**.

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Bruker Daltonics

Figure S4. HRMS Spectrum for **2b**.

2. Dependence of Intensity vs. Fluence for Porphyrins **1b** and **2b**

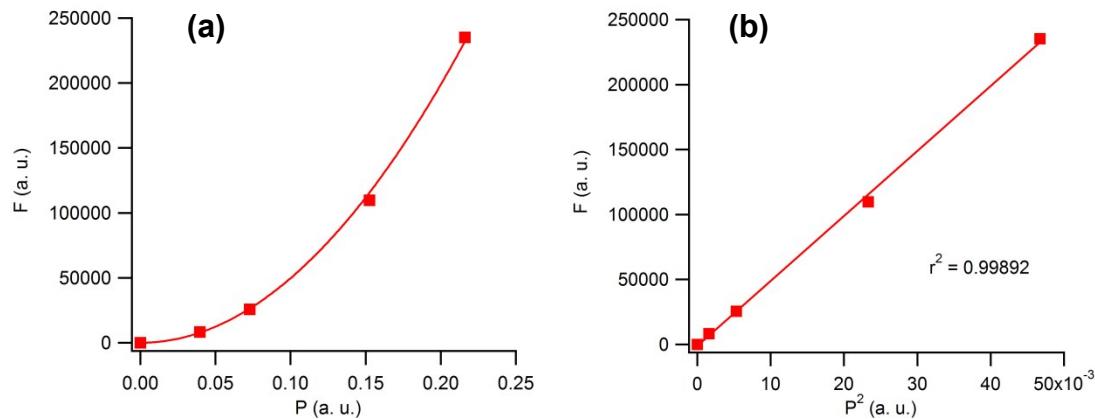


Figure S5. (a) Quadratic Dependence of the Emission Intensity (F) on the Laser Excitation Power (P) and (b) Dependence of F on P^2 for Compounds **1b** at 790 nm.

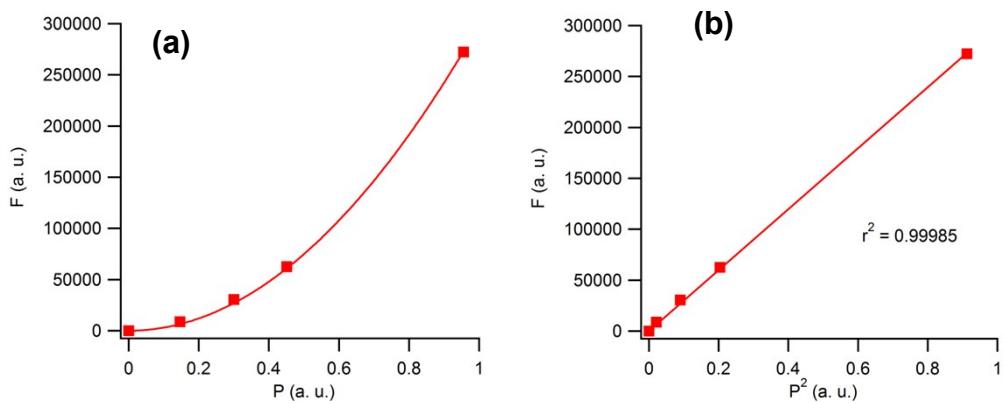


Figure S6. (a) Quadratic Dependence of the Emission Intensity (F) on the Laser Excitation Power (P) and (b) Dependence of F on P^2 for Compounds **2b** at 790 nm.