

# Electronic Supporting Information

## Evaluation of MAA Analogues as Potential Candidates to Increase Photostability in Sunscreen Formulations

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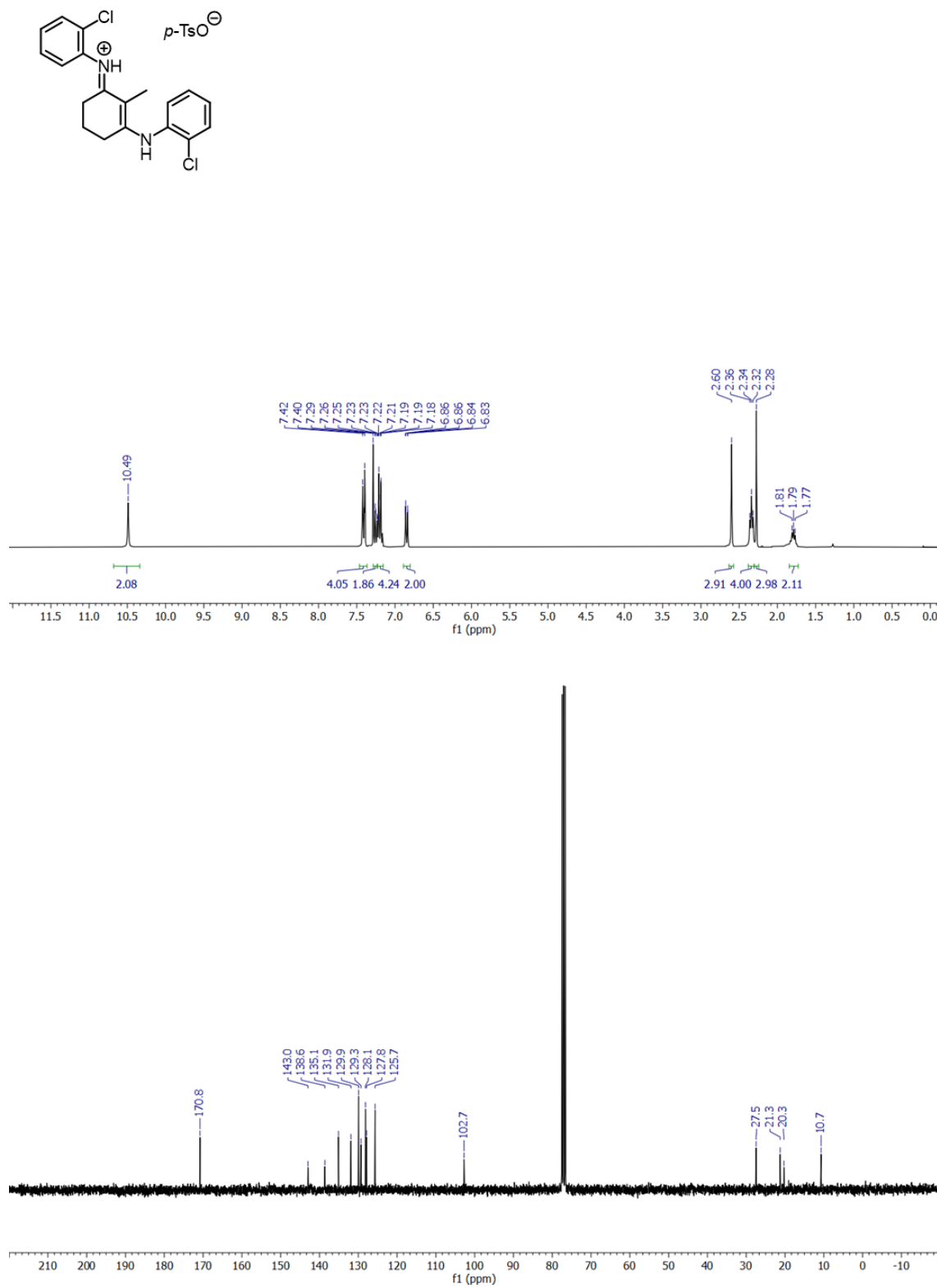


Figure S1. NMR spectra of **1**.

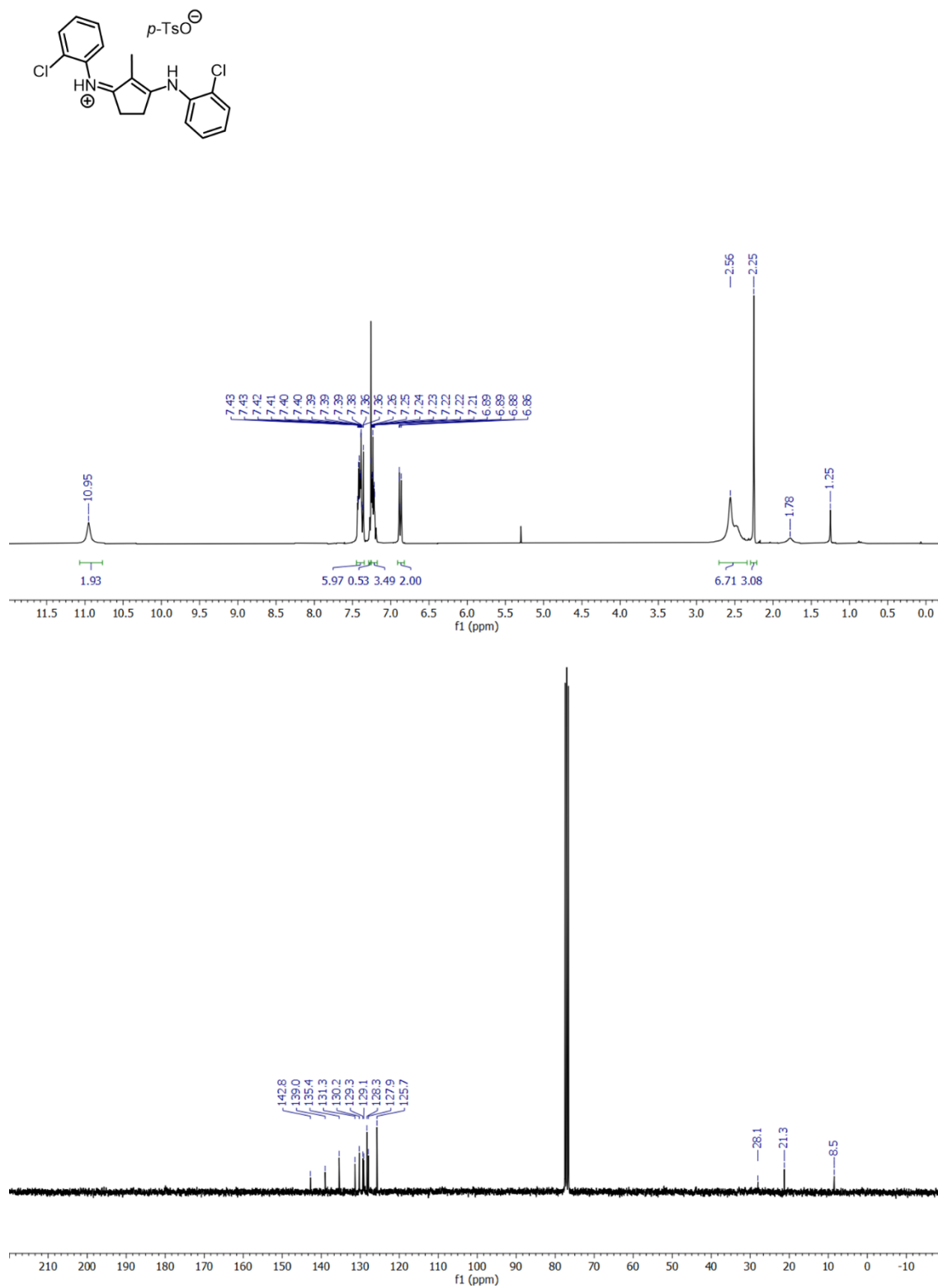


Figure S2. NMR spectra of **3**.

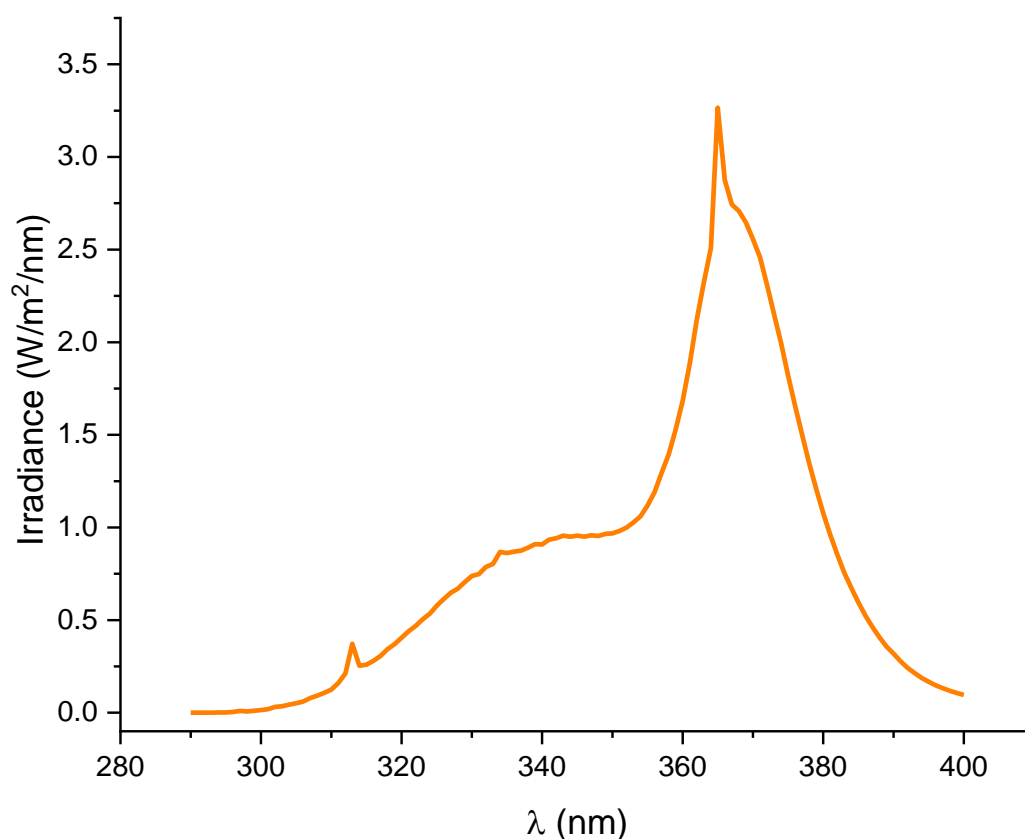


Figure S3. Spectral irradiance used for the irradiation experiments.

### 1. Composition of the formulations:

- Neo PCL 20-30%: Beewax 10 – 25 %, Stearyl alcohol 10 – 25 %, Stearyl heptanoate 10 – 25 %, Steareth-7 5 – 10 %, Steareth-10 5 – 10 %, Stearyl caprylate 5 – 10 %, Dimethicone 1 – 5 %, Myristyl alcohol 1 – 5 %, Isopropyl myristate 1 – 5 %, Mineral oil (paraffinum liquid) 1 – 5 %.
- Bidistilled water 60-80% (to completeness)
- Active Sunscreen ingredient 5%-10%: **Avo, Octo, 1, 2, 3, 4.**
- PEG: 2 drops



Figure S4. PMMA plates with the prepared formulations of **1-4** at 5%.