

Supplementary Material

The effect of N-methylation on photophysical properties of imidazole-based fluorescent molecules

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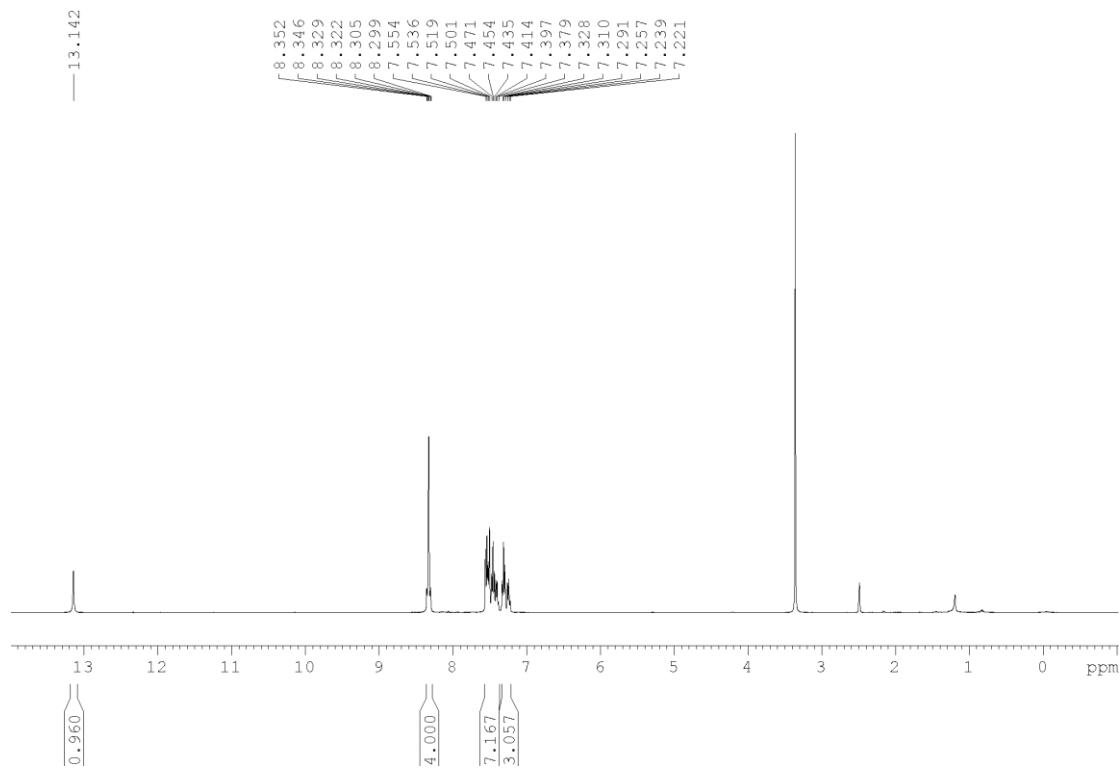


Figure S1. ^1H NMR spectrum of compound **1** in $\text{DMSO}-d_6$.

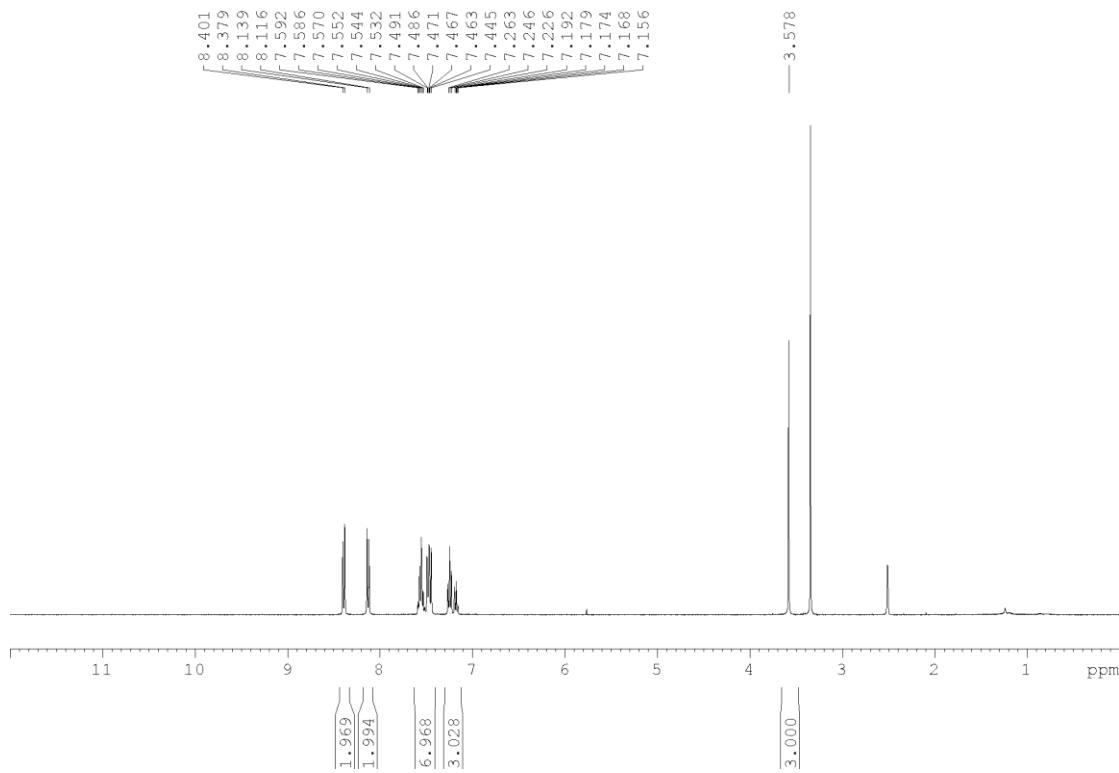


Figure S2. ^1H NMR spectrum of compound **2** in $\text{DMSO}-d_6$.

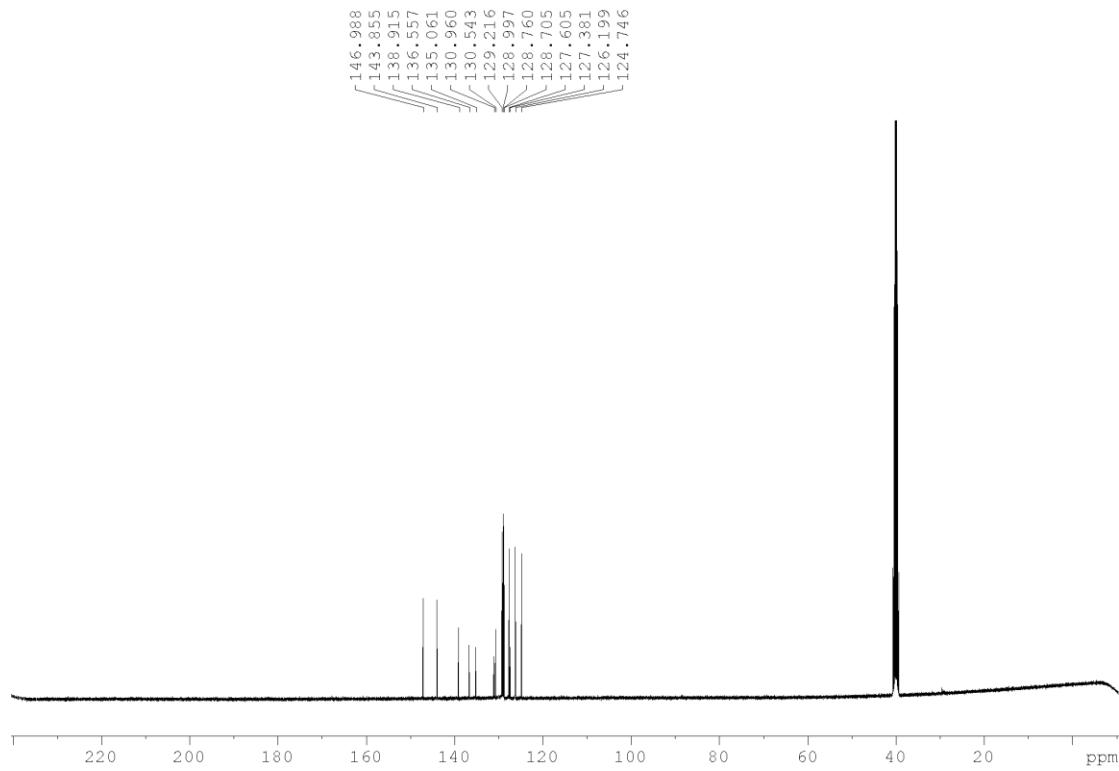


Figure S3. ^{13}C NMR spectrum of compound **1** in $\text{DMSO}-d_6$.

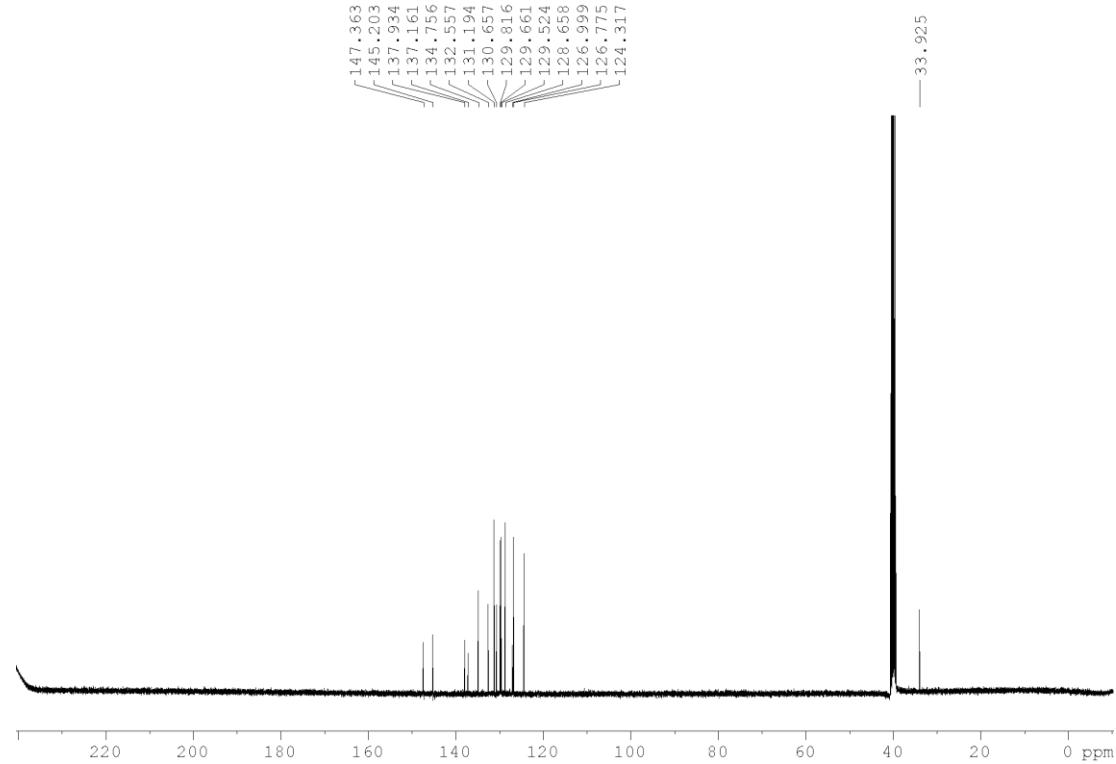
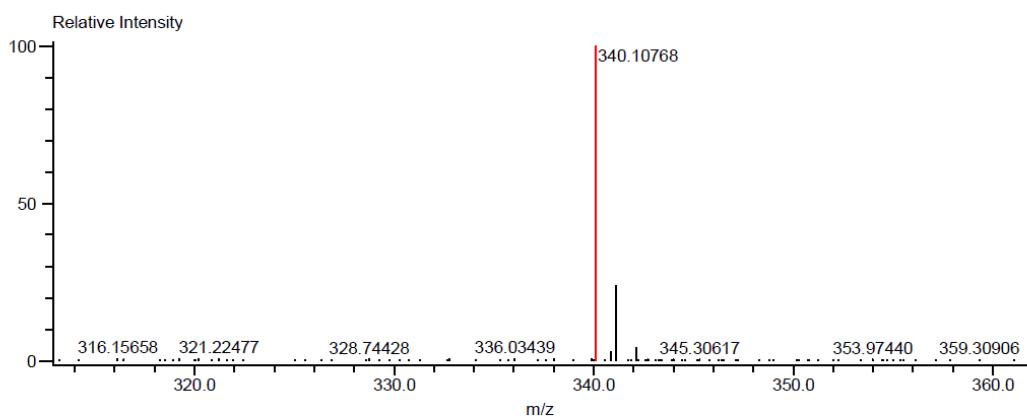


Figure S4. ^{13}C NMR spectrum of compound **2** in $\text{DMSO}-d_6$.

Data:DN-
Comment:
Description:
Ionization Mode:ESI-
History:Average(MS[1] 0.24..0.25)

Acquired:3/7/2023 4:34:33 PM
Operator:AccuTOF
m/z Calibration File:20220901-TFANA_...
Created:3/7/2023 5:33:37 PM
Created by:AccuTOF

Charge number:1 Tolerance:300.00[ppm], 300.00 .. 300....
Element:¹²C:21 .. 21, ¹H:0 .. 15, ³⁵Cl:0 .. 1, ¹⁴N:3 .. 3, ²³Na:0 .. 1, ¹⁶O:2 .. 2
Unsaturation Number:-200.5 .. 200.0 (...)



Mass	Intensity	Calc. Mass	Mass Difference [mDa]	Mass Difference [ppm]	Possible Formula
340.10768	207484.75	340.10860	-0.92	-2.71	¹² C ₂₁ ¹ H ₁₄ ¹⁴ N ₃ ¹⁶ O ₂

Figure S5. HR-Mass spectrum of compound 1.

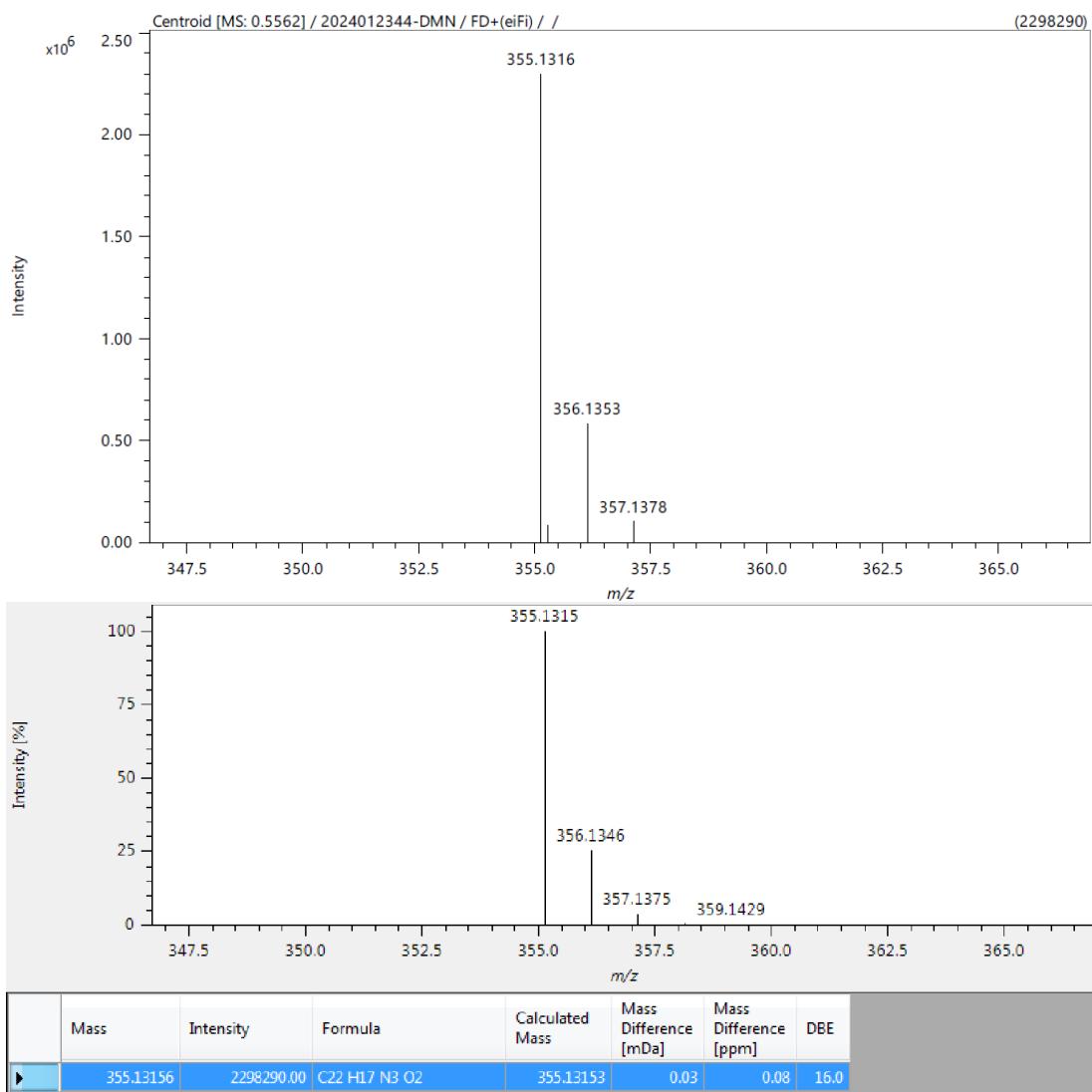


Figure S6. HR-Mass spectrum of compound 2.