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Supporting Information

for

Extending mechanochemical porphyrin synthesis to bulkier aromatics: tetramesitylporphyrin

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Spectroscopic characterization of *meso*-tetrakis[2,4,6-(trimethyl)phenyl]porphyrin (TMP)

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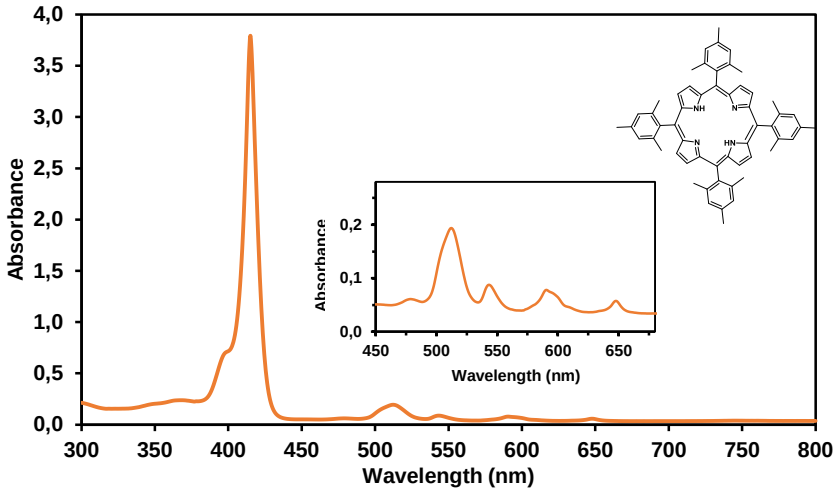

Figure S1: UV–vis spectrum of *meso*-tetrakis[2,4,6-(trimethyl)phenyl]porphyrin. λ = 414 (Soret band); λ = 513, 543, 590, 648 (Q-bands).

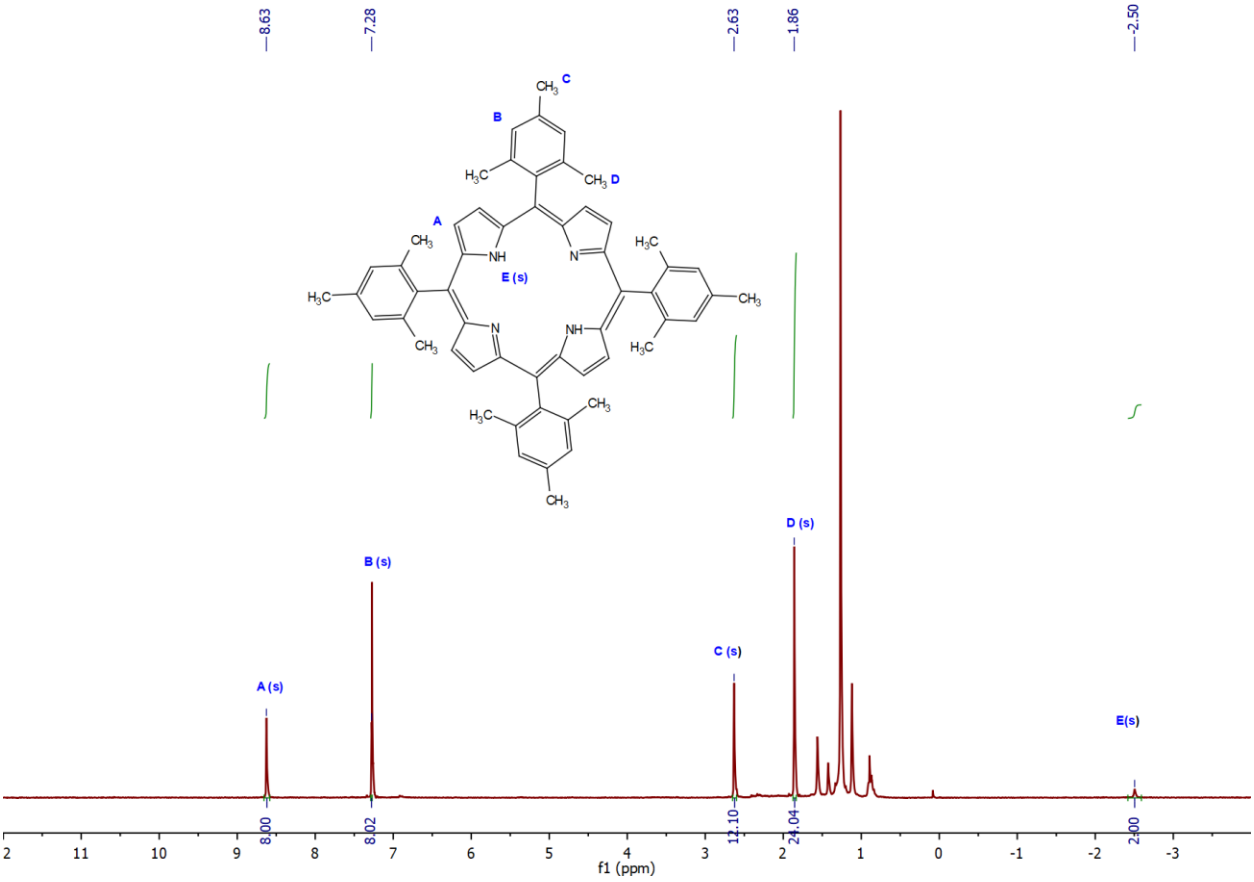

Figure S2: ^{1}H NMR spectrum of *meso*-tetrakis[2,4,6-(trimethyl)phenyl]porphyrin. (300 MHz, $CDCl_3$): δ = 8.63 (s, 8H), 7.28 (s, 8H), 2.63 (s, 12H), 1.86 (s, 24H), -2.50 (s, 2H).

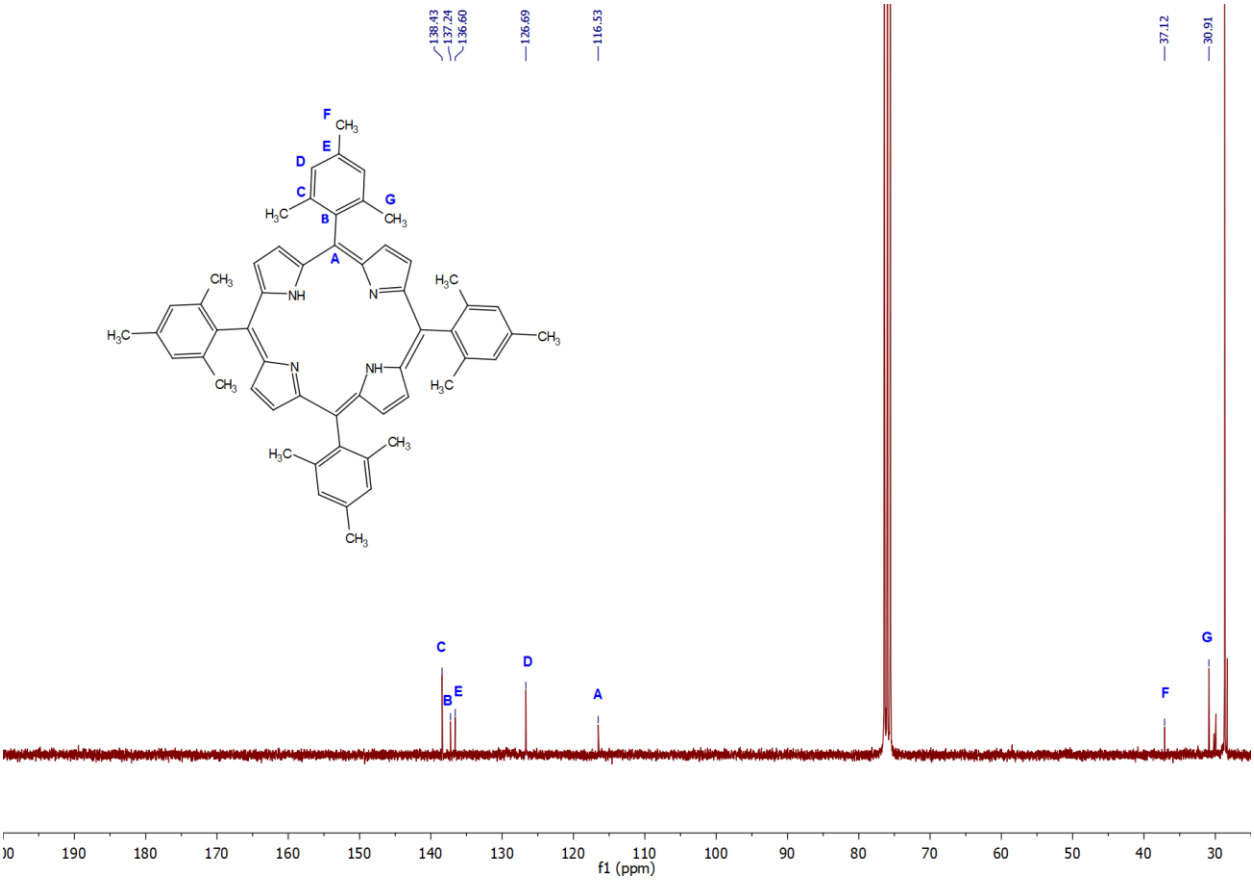

Figure S3: ^{13}C NMR spectrum of *meso*-tetrakis[2,4,6-(trimethyl)phenyl]porphyrin (300 MHz, CDCl3): δ= 138.4, 137.2, 136.6, 126.7, 116.5, 37.1, 30.9.

Note: In ^{13}C NMR spectra of free base porphyrins, the α and β carbons on the pyrrole rings are often indistinguishable from baseline noise or too broad to be observable.[1]

Reference:

1) Mohajer, D.; Zakavi, S.; Rayati, S.; Zahedi, M.; Safari, N.; Khavasi, H. R.; Shahbazian, S. *New J. Chem.* **2004**, *28*, 1600-1607.