

Supporting Information

Perylene-based, *Bisterpyridine*-Ru(II) Complexes: Synthesis, Electrochemical and Photovoltaic Properties

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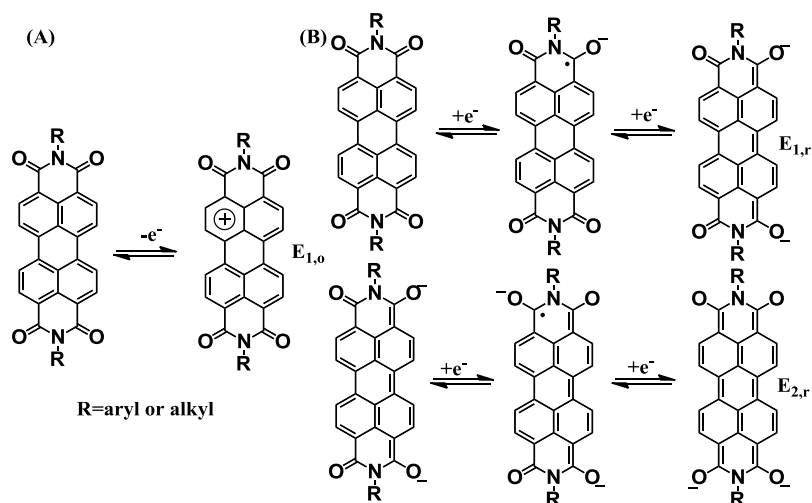
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Electronic Supplementary Information (ESI)

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Scheme S1. (A) One electron oxidation and (B) Two-electron reduction processes reported for a perylene group.¹

Figure S1 shows the structure of the commercially available perylene dye, It has twelve functionalizable carbon atoms. Substituents at carbons 3,4, 9, and 10 are known as *Peri*-substituents, whereas 1, 6, 7, and 12 are known as the *Bay*-positions. Finally carbons 2, 5, 8, and 11 are known as the *ortho*-positions.

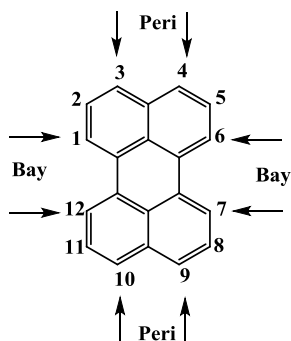


Figure S2. ^1H NMR and ^{13}C NMR spectra of **3**

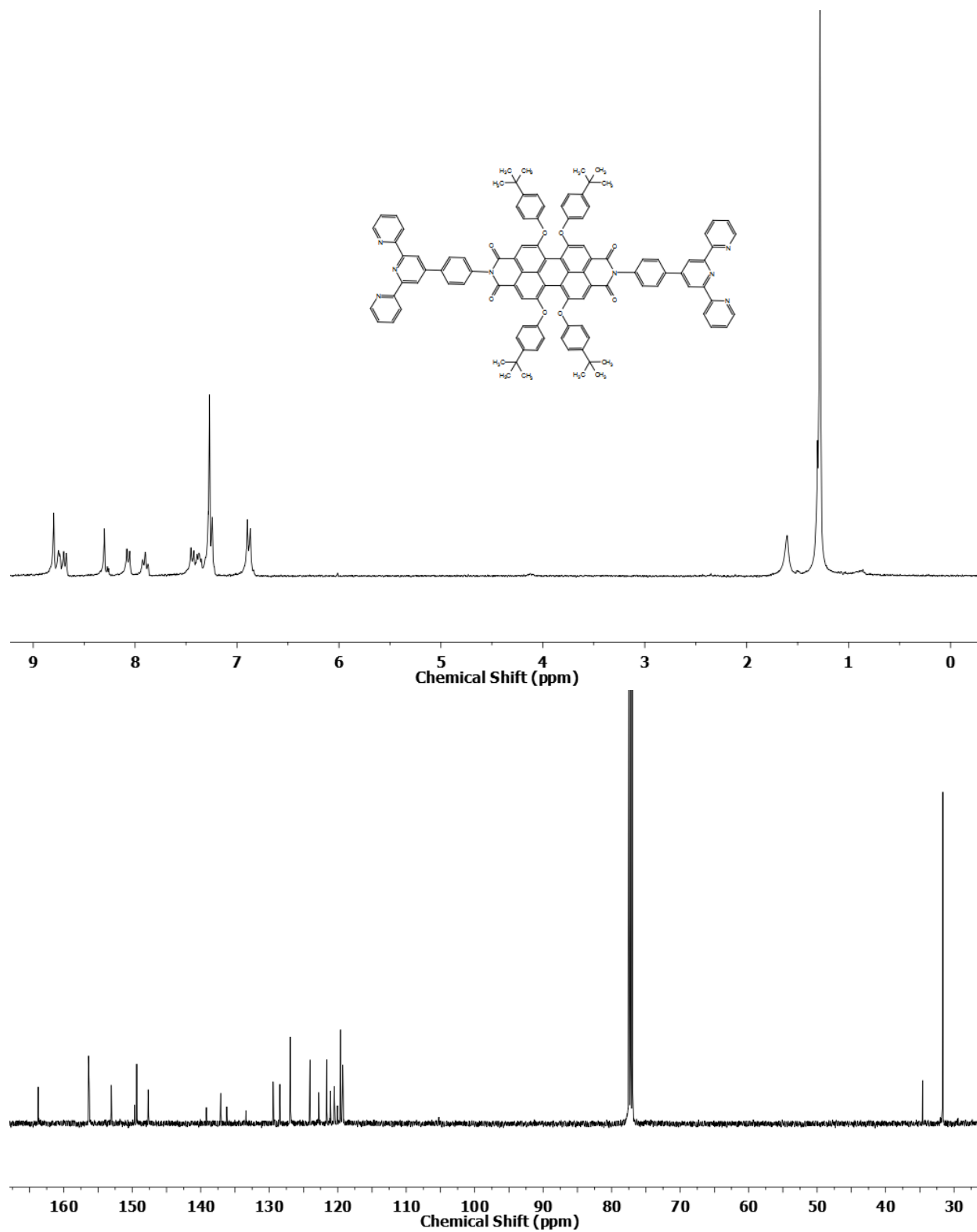


Figure S3. ^1H NMR and ^{13}C NMR spectra of **5**

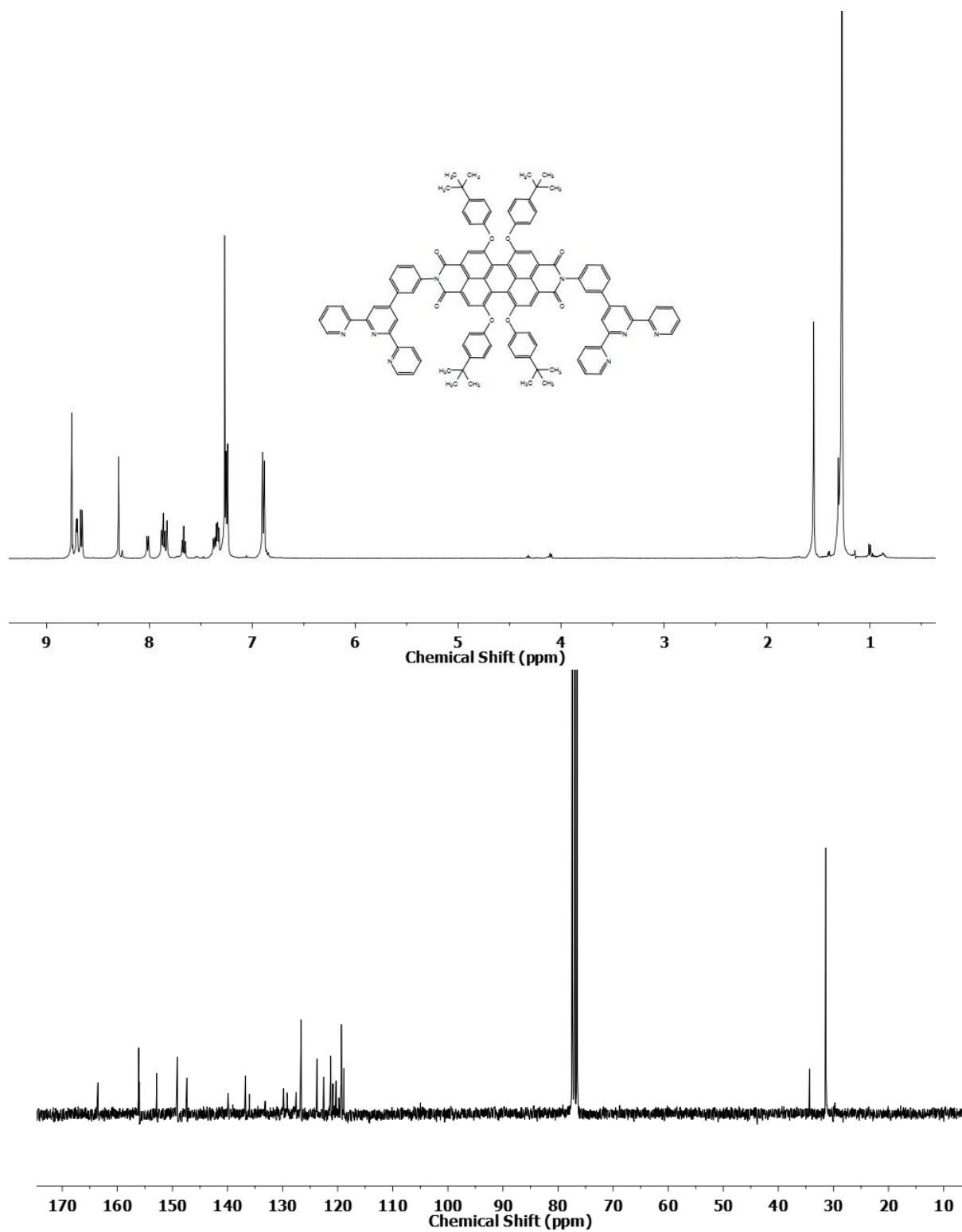
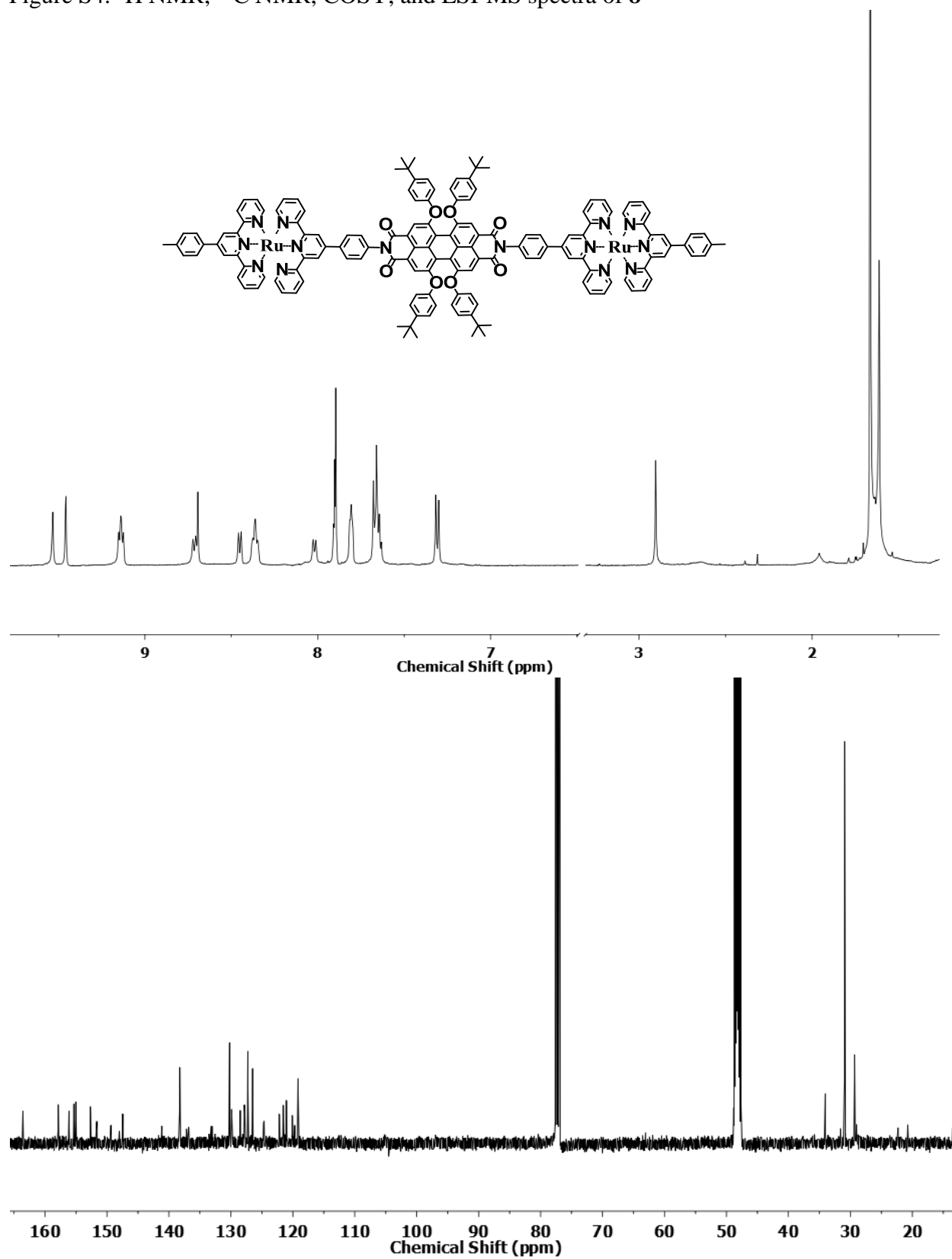


Figure S4. ^1H NMR, ^{13}C NMR, COSY, and ESI-MS spectra of **8**



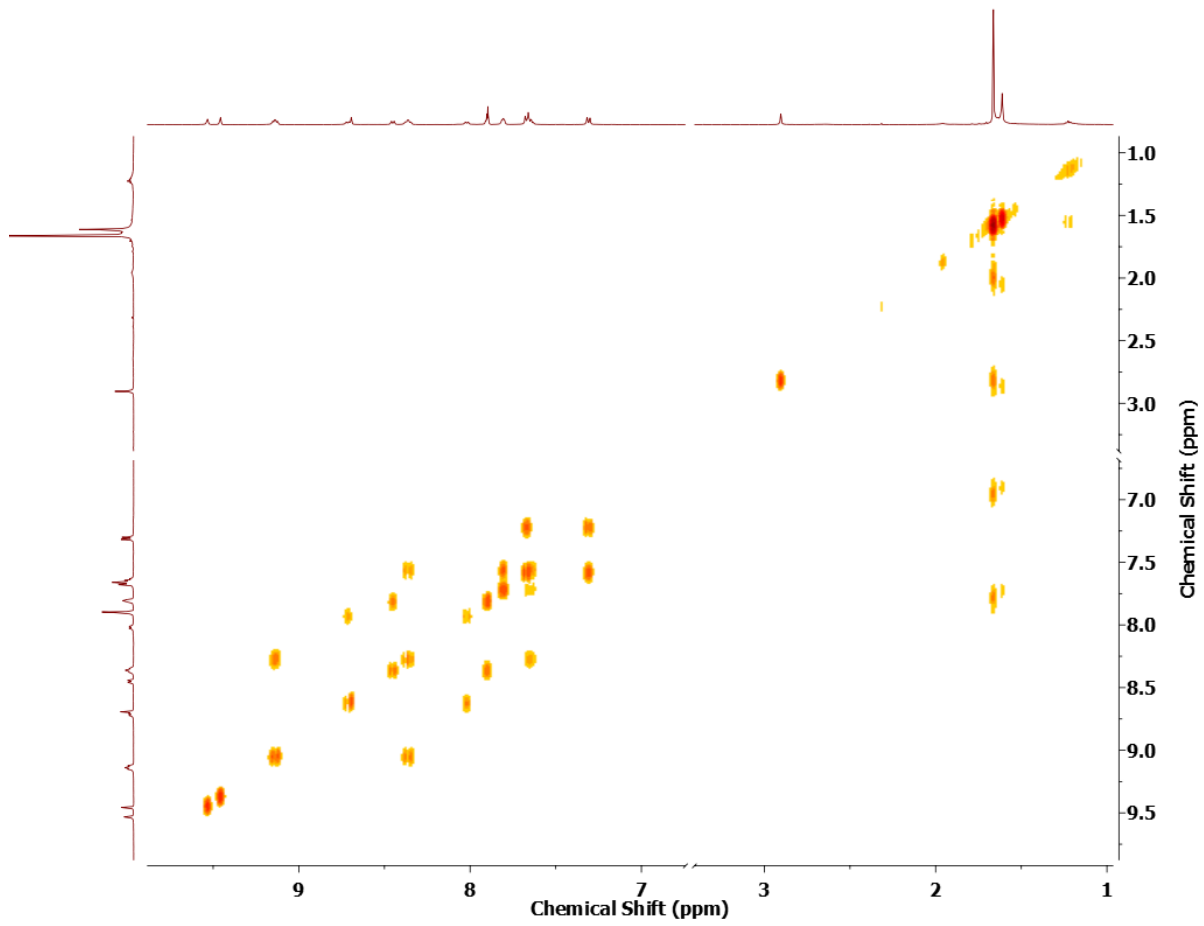
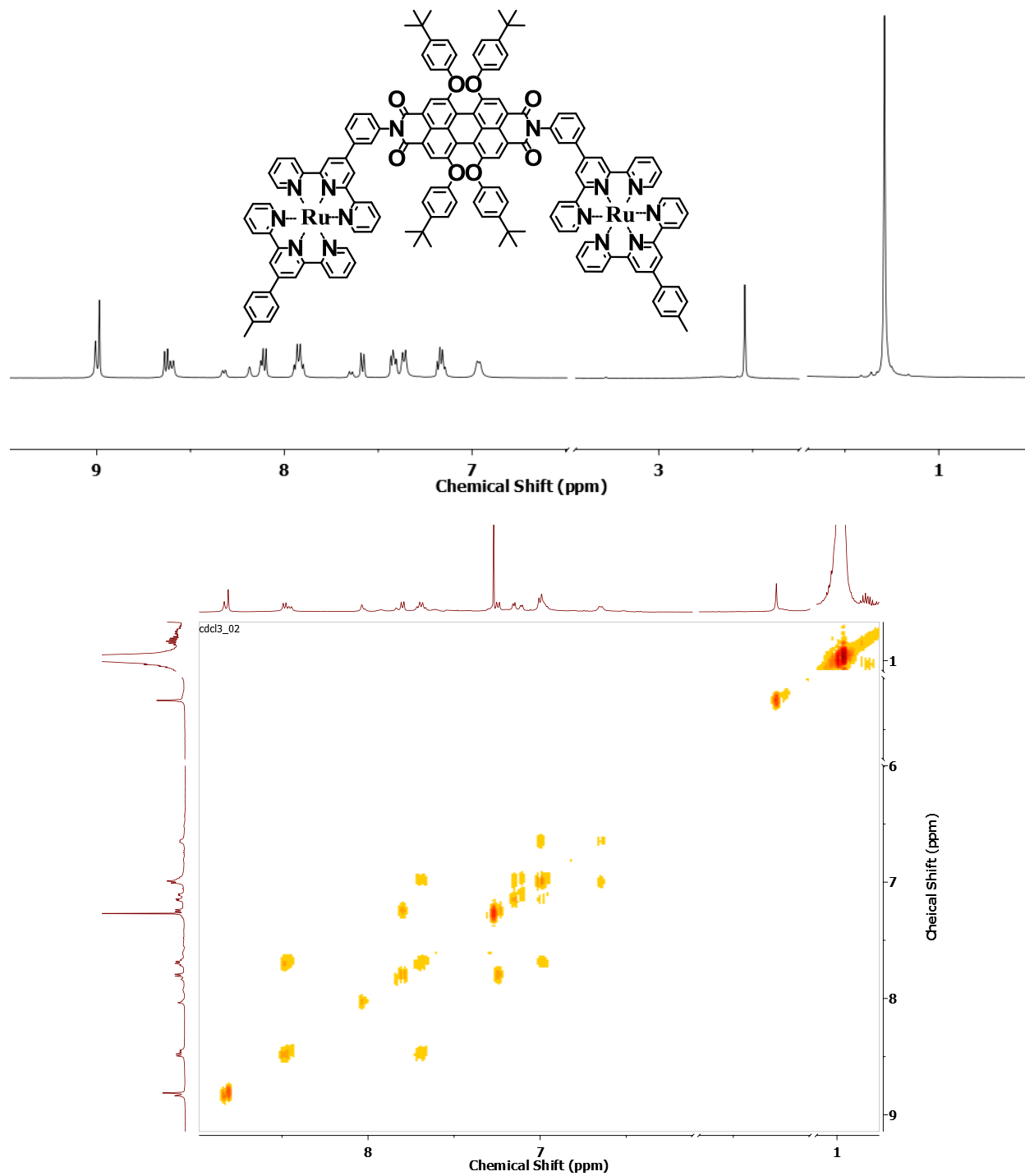
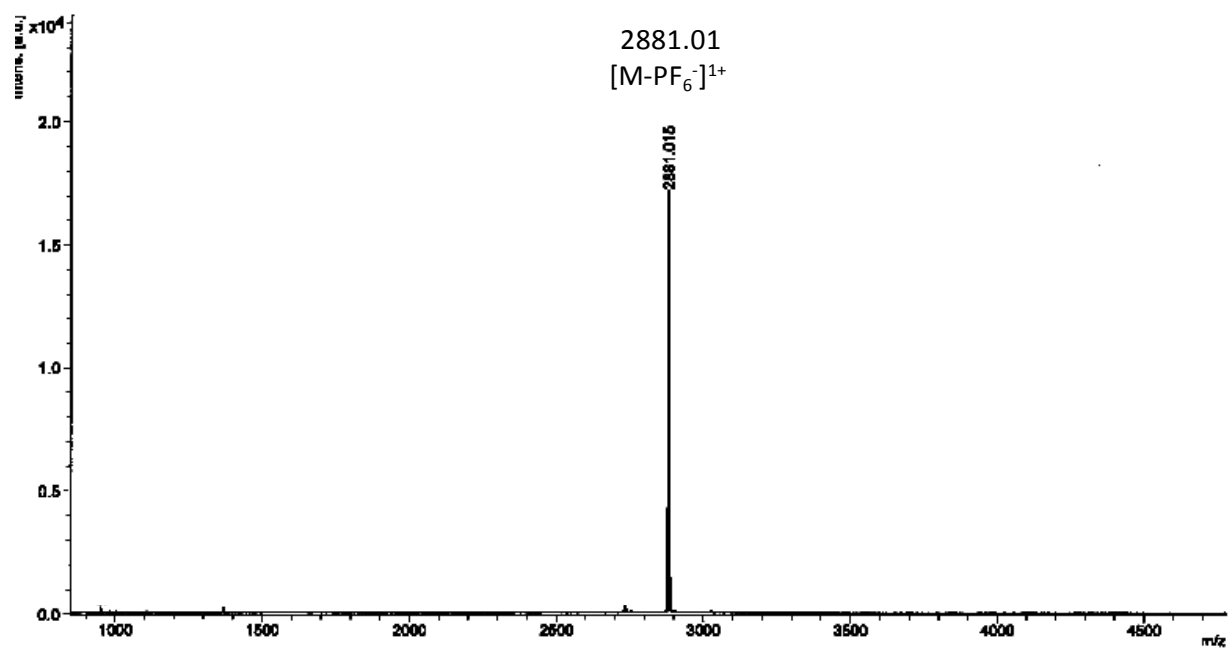
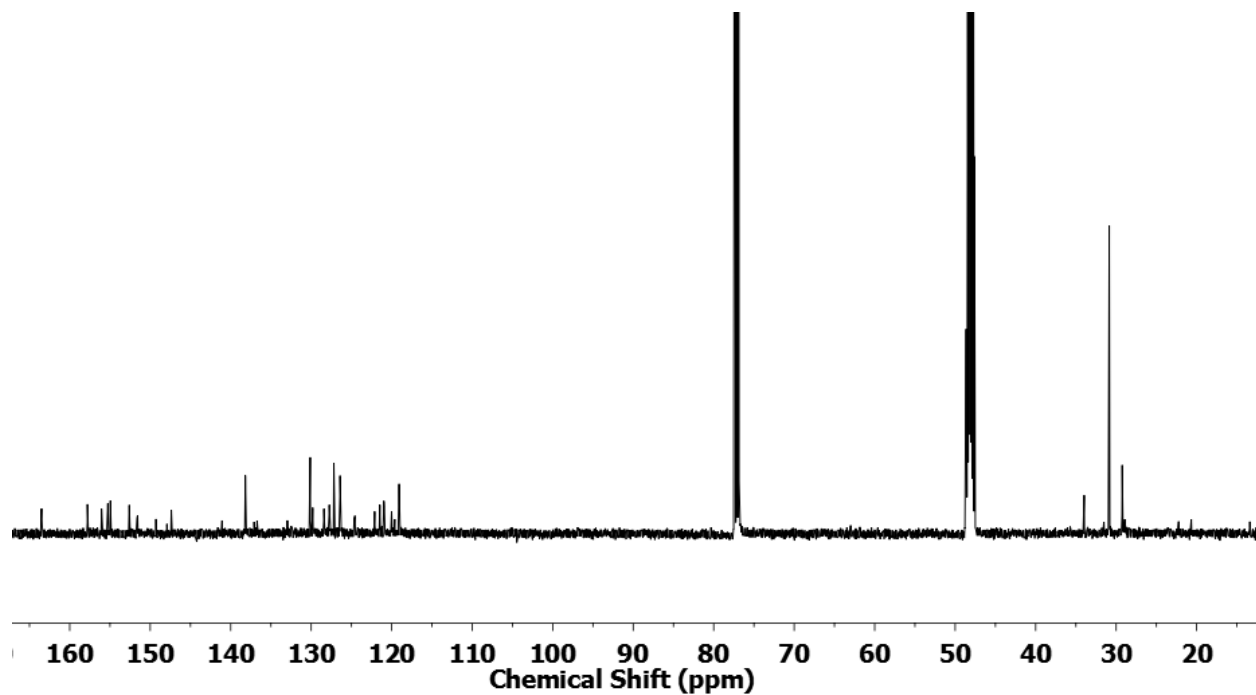


Figure S5. ^1H NMR, ^{13}C NMR, COSY, and ESI-MS spectra of **9**





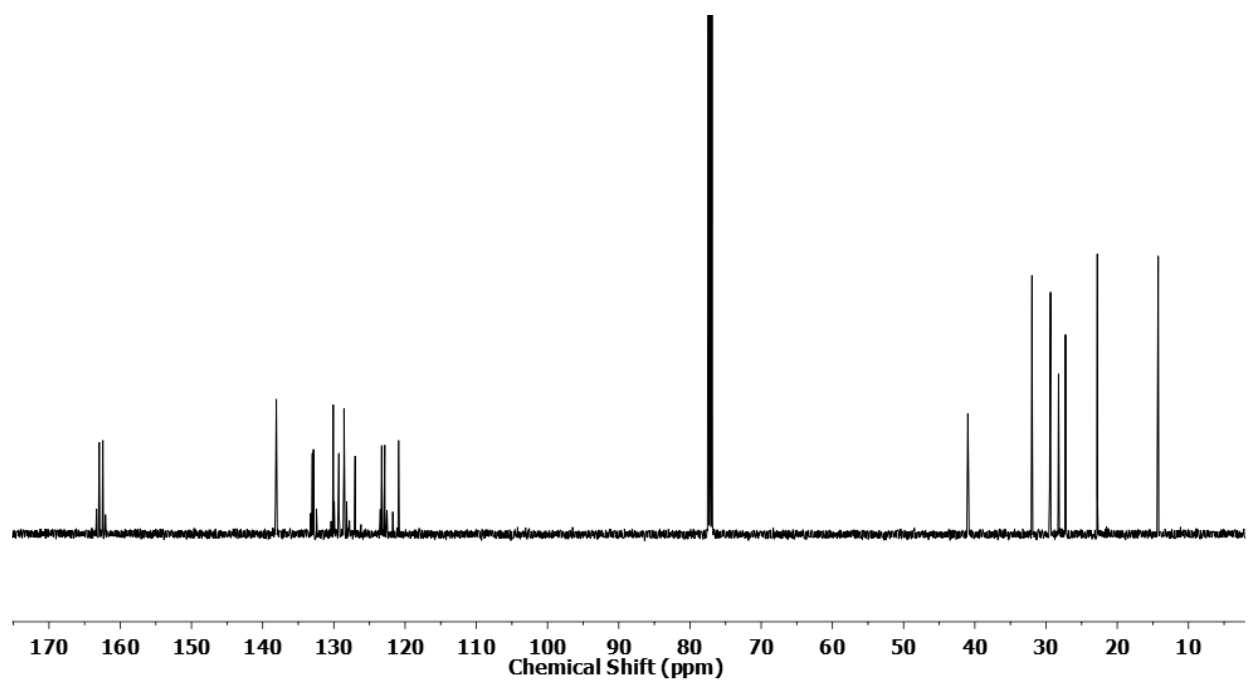
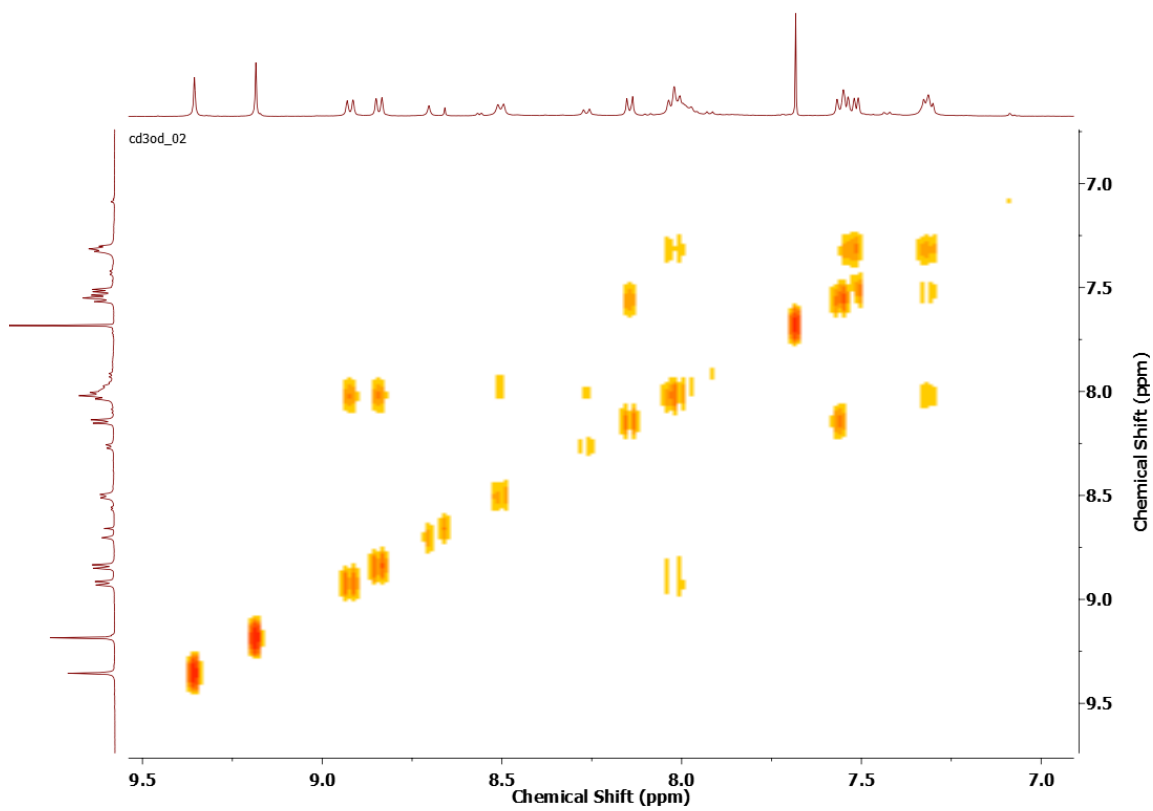
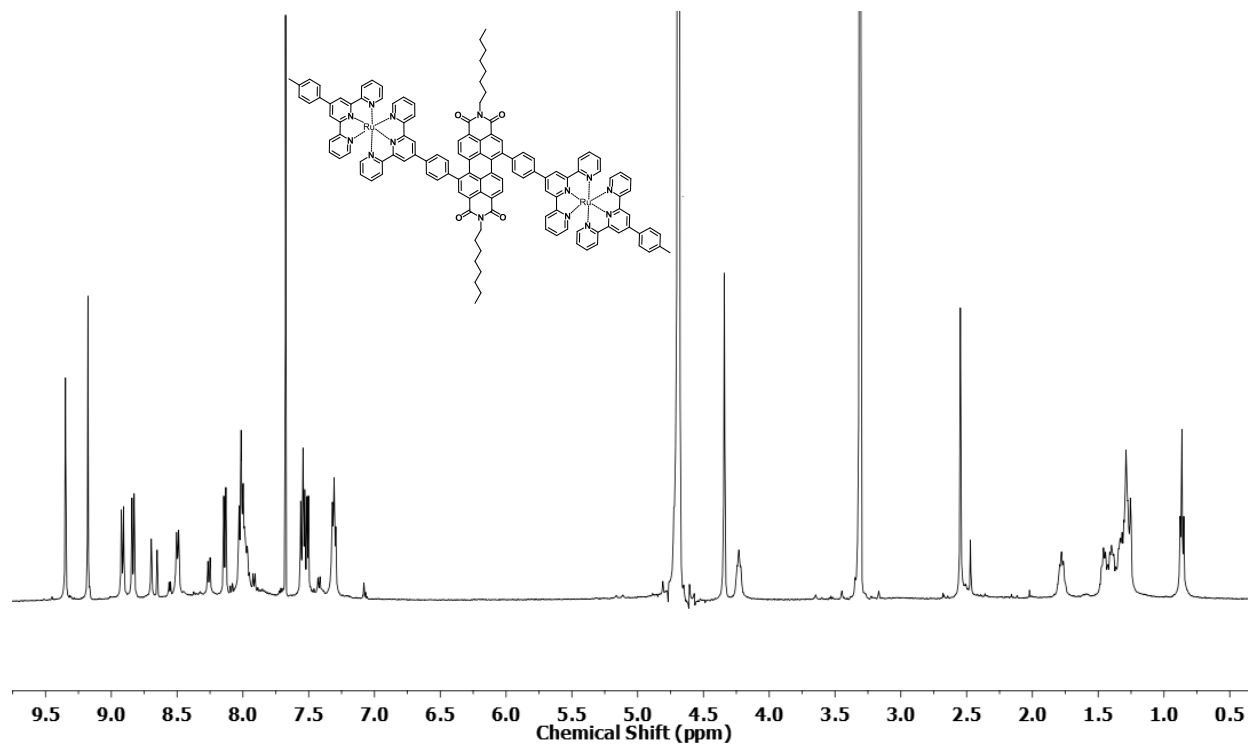
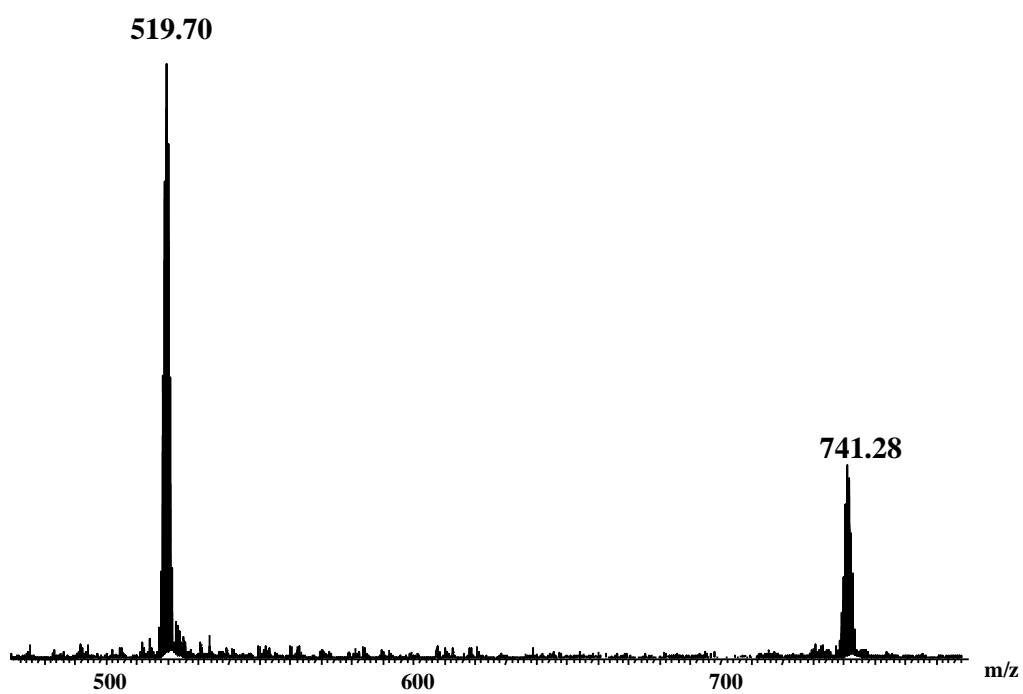
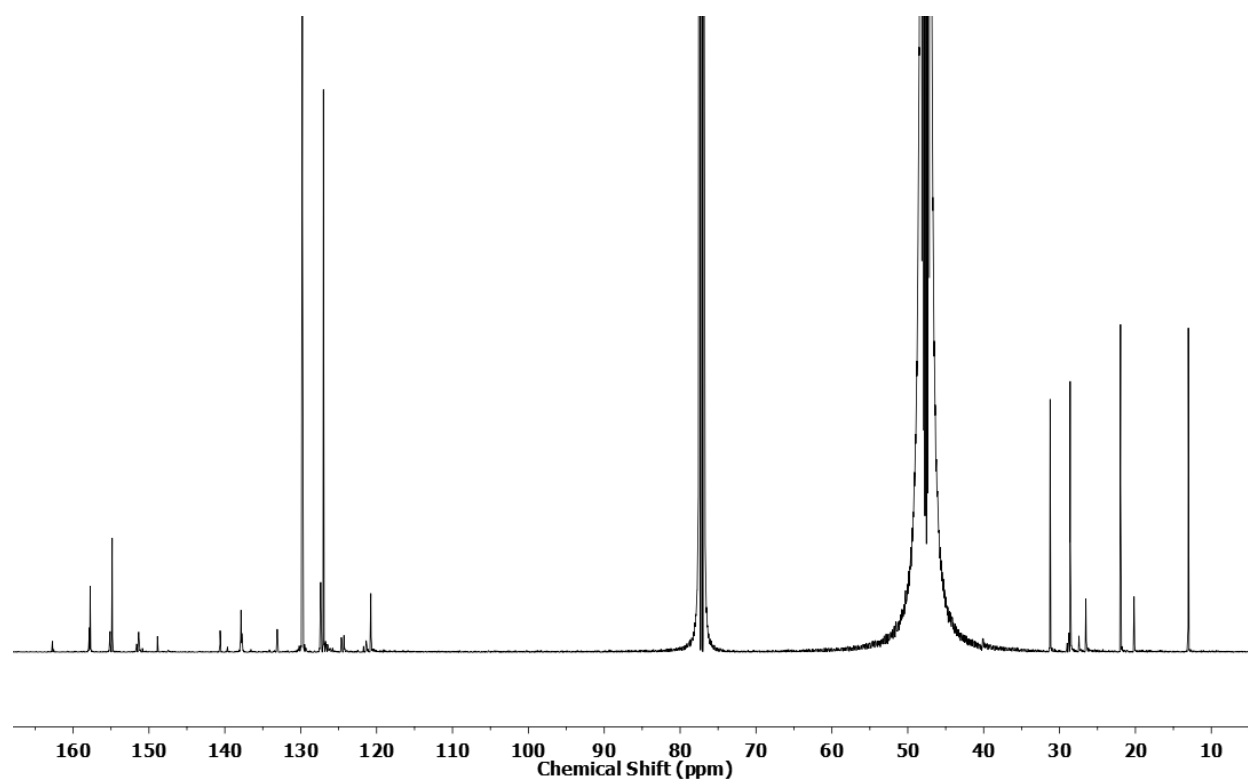


Figure S7. ^1H NMR, ^{13}C NMR, COSY, and ESI-MS spectra of **13**





References:

- 1 S. K. Lee, Y. Zu, A. Herrmann, Y. Geerts, K. Müllen and A. J. Bard *J. Am. Chem. Soc.* 1999, **121**,3513.