

## Exploration of CH••F & CF••H Mediated Supramolecular Arrangements into Fluorinated Terphenyls and Theoretical Prediction of Their Third-order Nonlinear Optical Response

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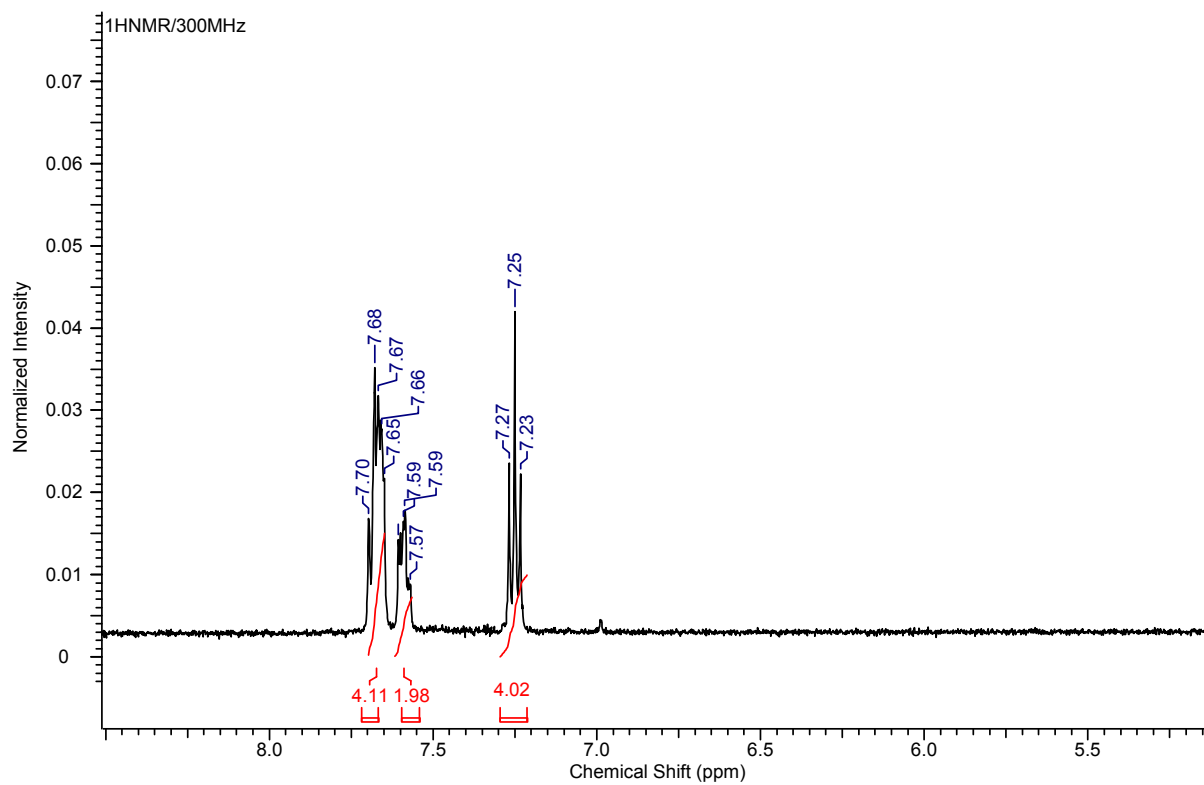
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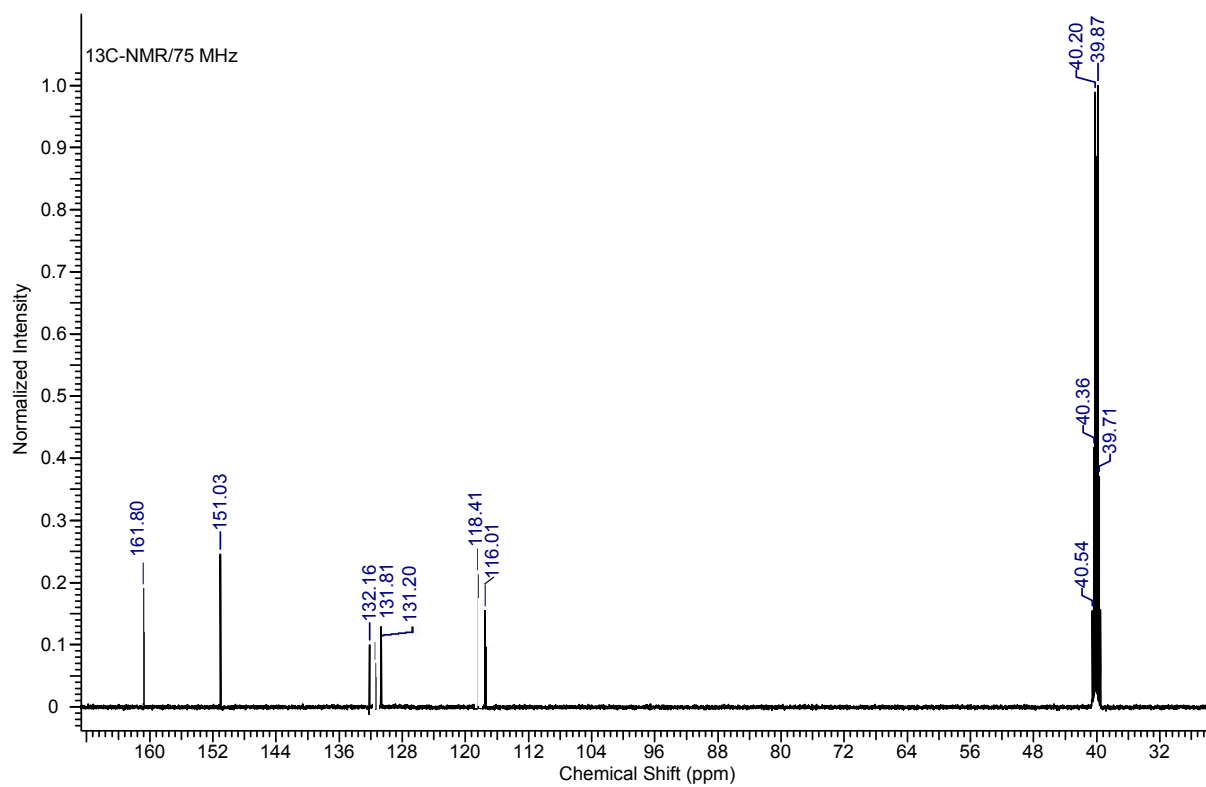
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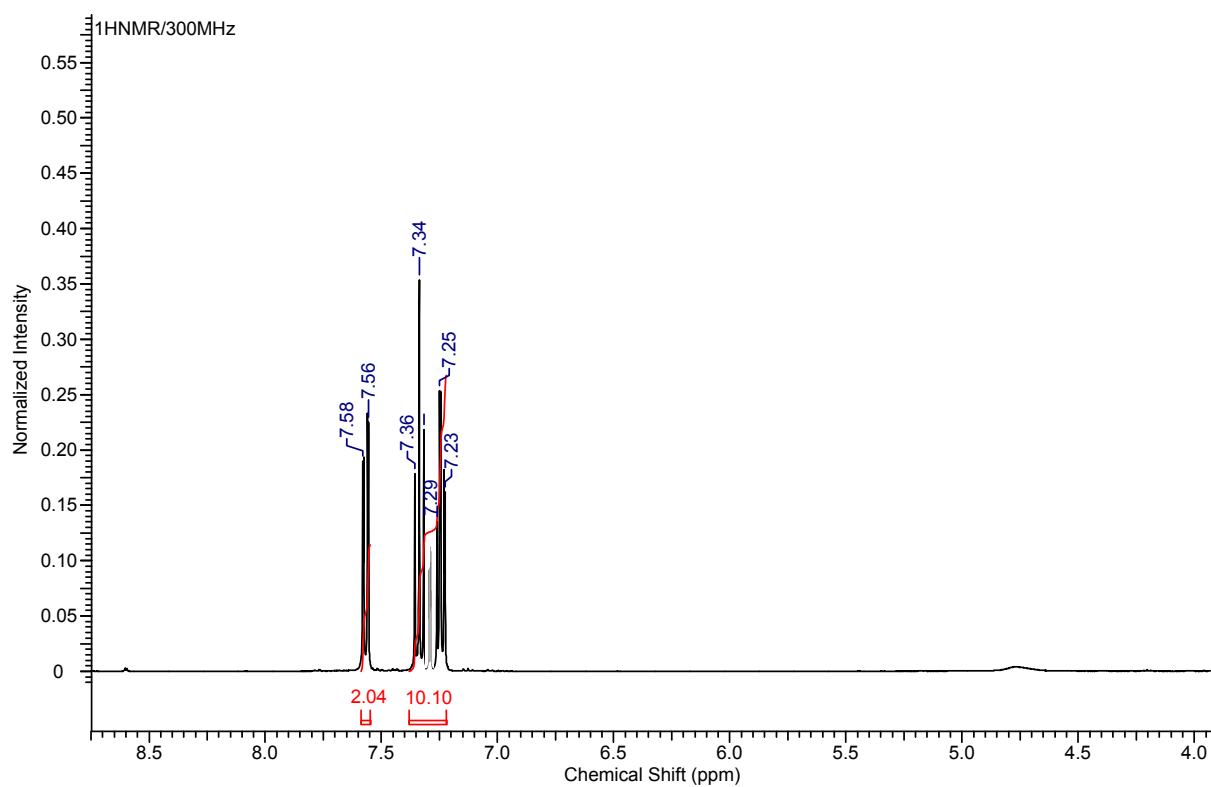
[muhhammad.khalid@kfueit.edu.pk](mailto:muhhammad.khalid@kfueit.edu.pk) (Dr. M. Khalid) & [madeel@gu.edu.pk](mailto:madeel@gu.edu.pk) (Dr. M. Adeel).



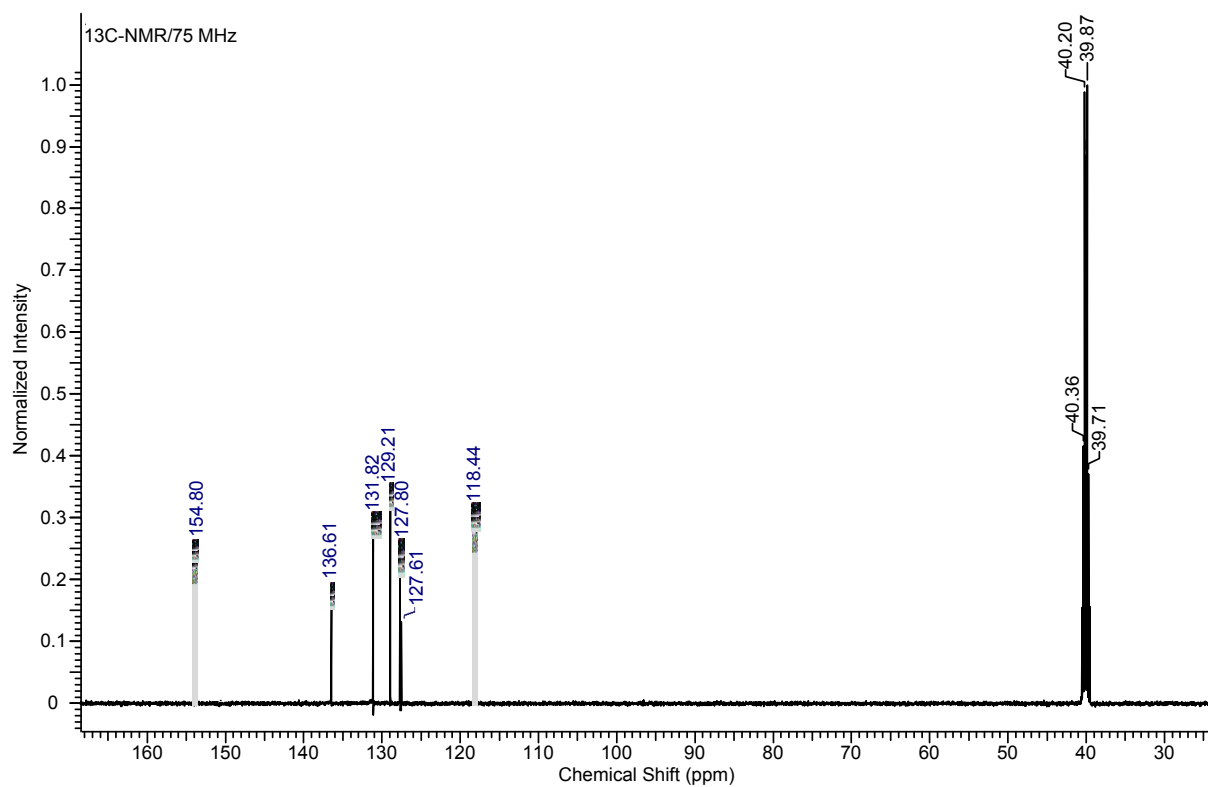
**Figure S1:** The <sup>1</sup>H-NMR spectra for compounds **1**.



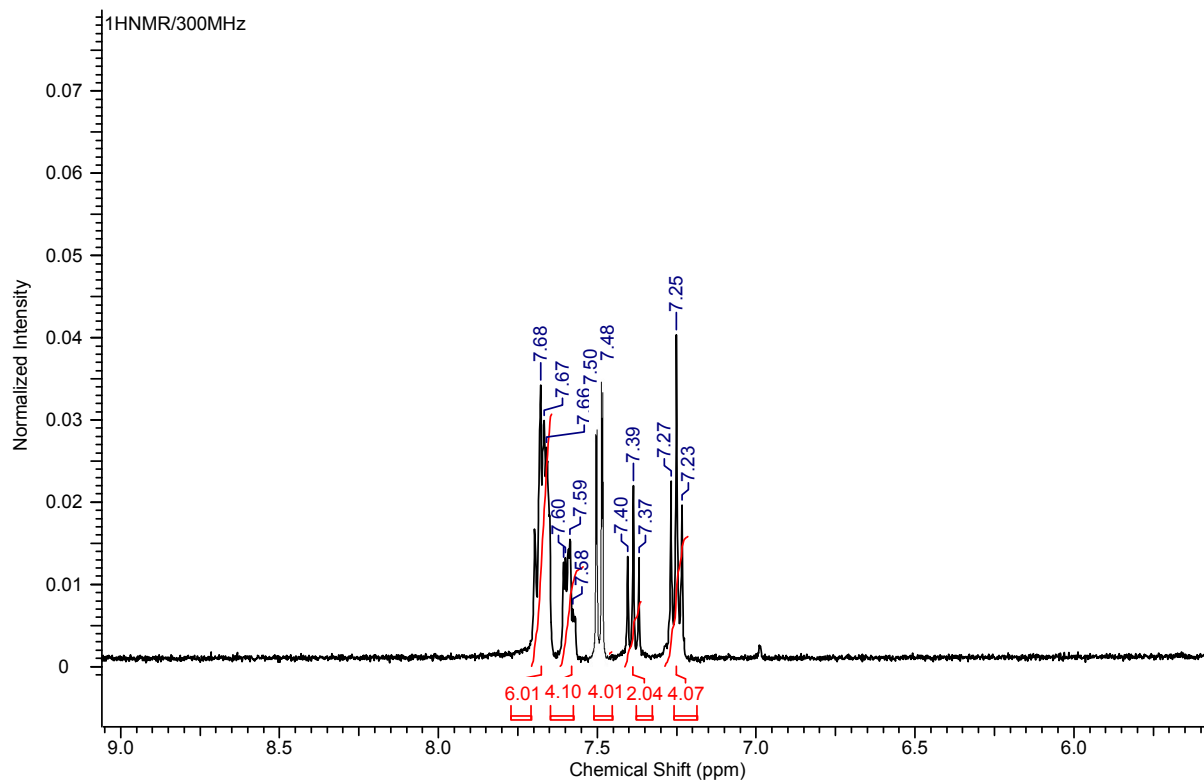
**Figure S2:** The <sup>13</sup>C-NMR spectra for compounds **1**.



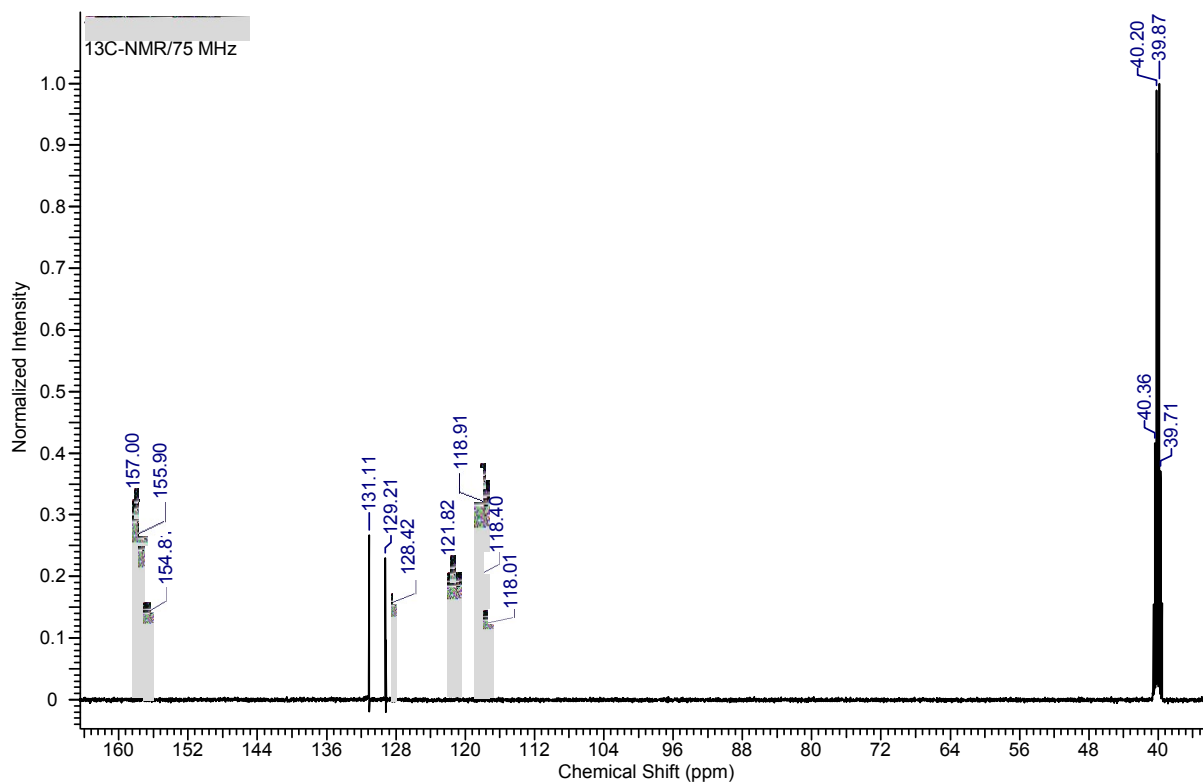
**Figure S3:** The <sup>1</sup>H-NMR spectra for compounds **2**.



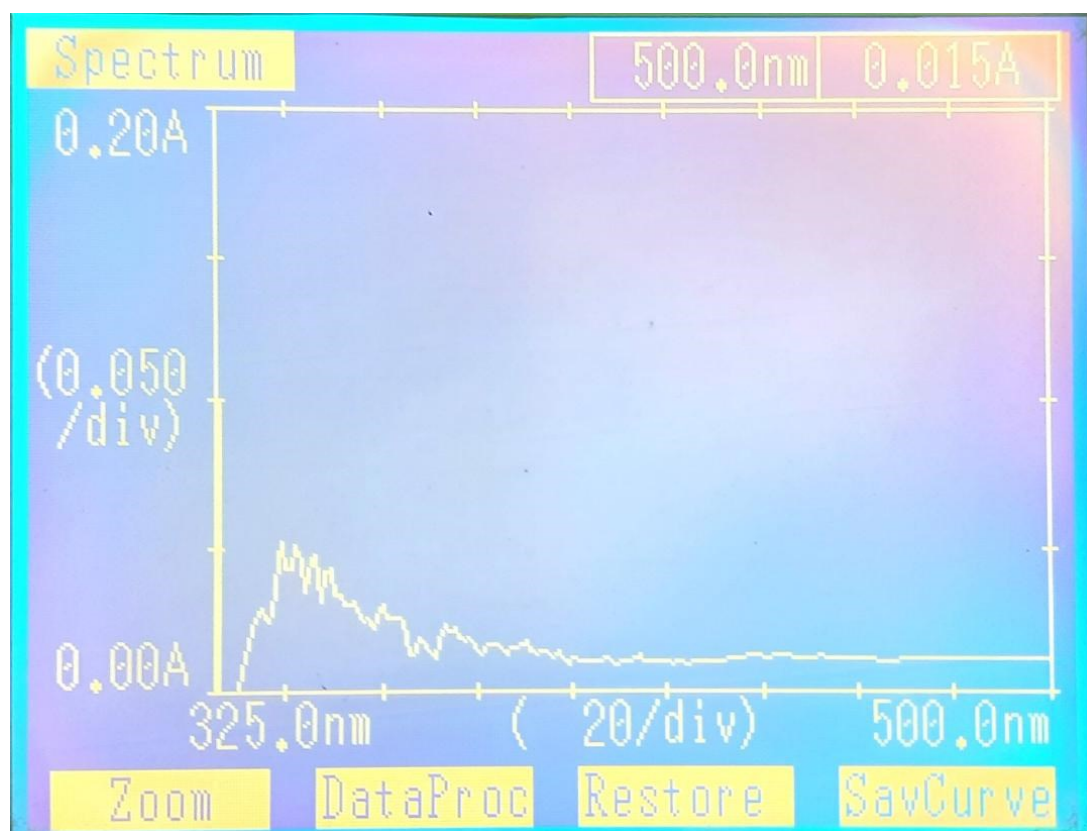
**Figure S4:** The <sup>13</sup>C-NMR spectra for compounds **2**.



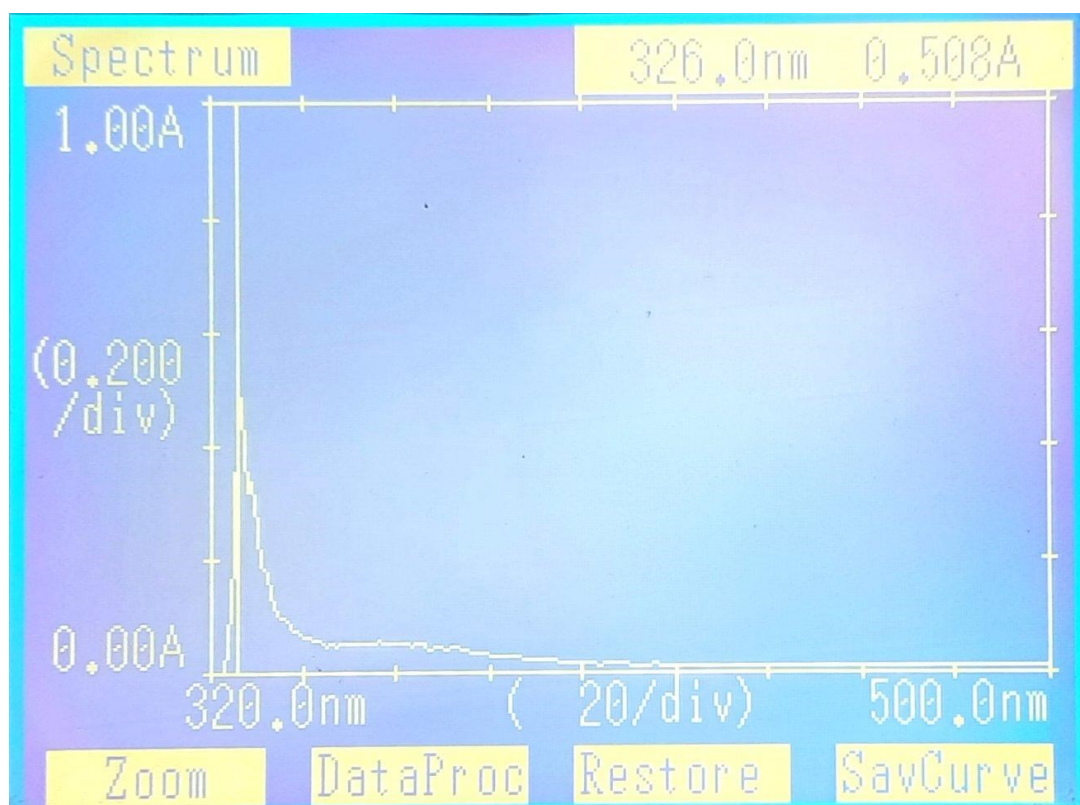
**Figure S5:** The <sup>1</sup>H-NMR spectra for compounds **3**.



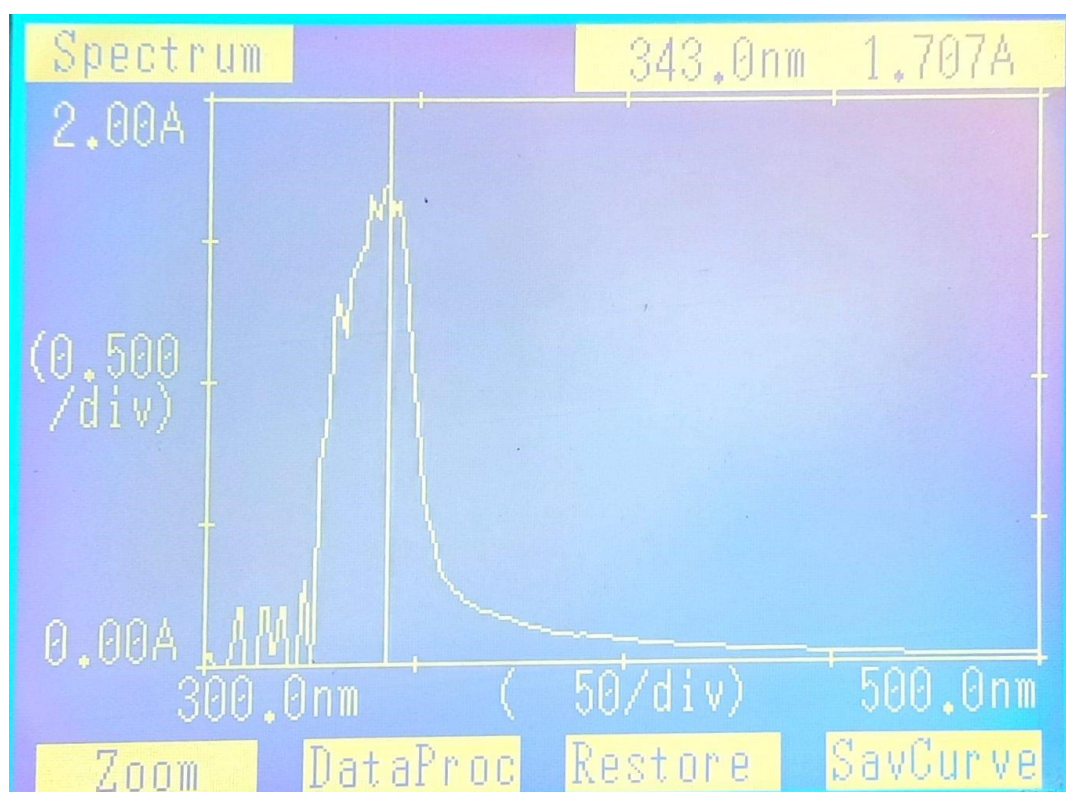
**Figure S6:** The <sup>13</sup>C-NMR spectra for compounds **3**.



**Figure S7:** The UV spectrum for compound **1**.

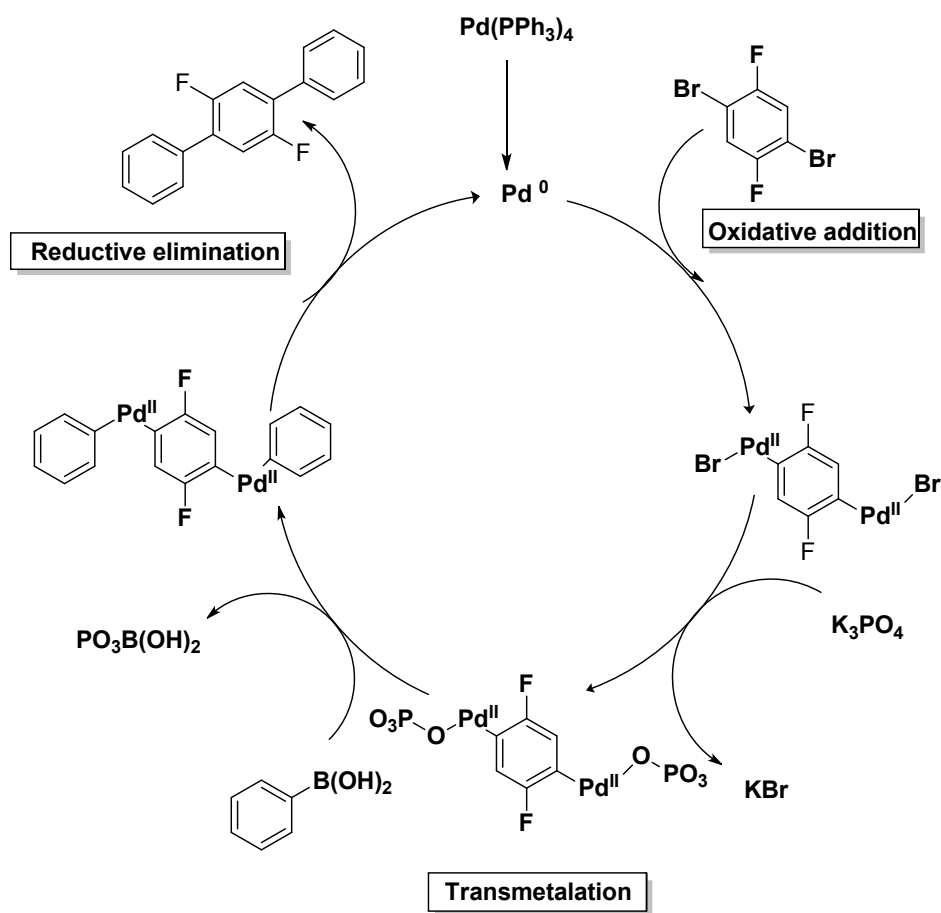


**Figure S8:** The UV spectrum for compound 2.



**Figure S9:** The UV spectrum for compound 3.





**Scheme S1:** General Suzuki Miyaura mechanism for the synthesis of terphenyl using  $\text{Pd}^0$  catalyst