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Supporting Information

Synthesis of 3,8-Dichloro-6-ethyl-1,2,5,7-tetramethyl-BODIPY from an Asymmetric Dipyrroketone and Reactivity Studies at the 3,5,8-Positions**

Ning Zhao, M. Graça H. Vicente,* Frank R. Fronczek, and Kevin M. Smith^[a]

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Supplementary Data

Synthesis of 3,8-dichloro-6-ethyl-1,2,5,7-tetramethyl-BODIPY from an Asymmetric Dipyrrone, and Reactivity Studies at the 3,5,8-positions

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1. Normalized absorbance and normalized fluorescence spectra

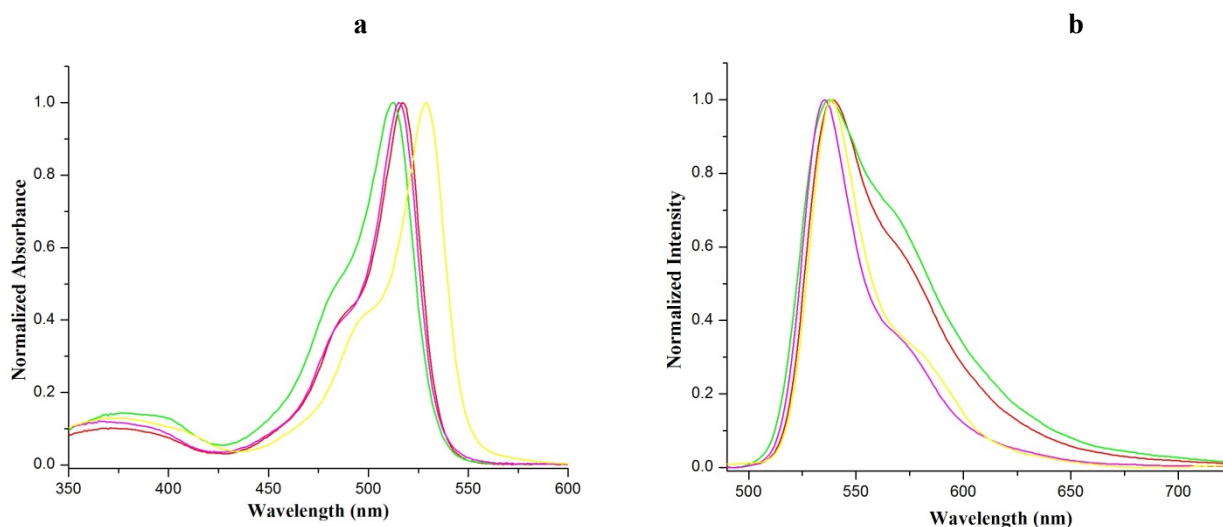


Figure S1: Normalized UV-Vis (a) and fluorescence (b) spectra of BODIPY **1a** (red), **1b** (green), **7a** (yellow), and **7c** (magenta) in dichloromethane at room temperature.

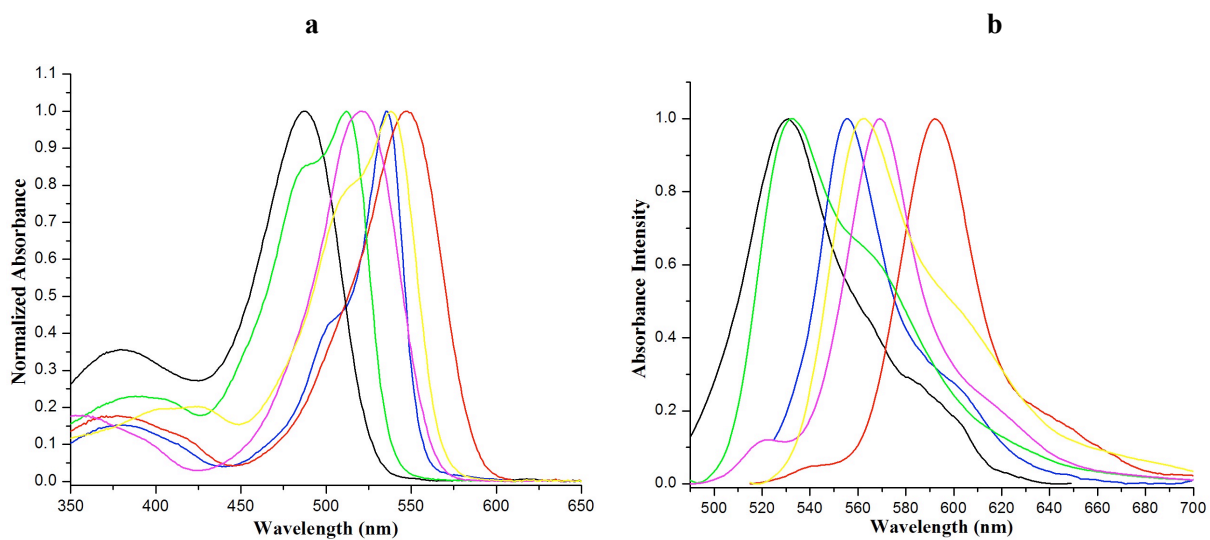


Figure S2: Normalized UV-Vis (a) and fluorescence (b) spectra of BODIPY **6a** (red), **7b** (blue), **12** (black), **14** (green), **15** (magenta) and **17** (yellow) in dichloromethane at room temperature.

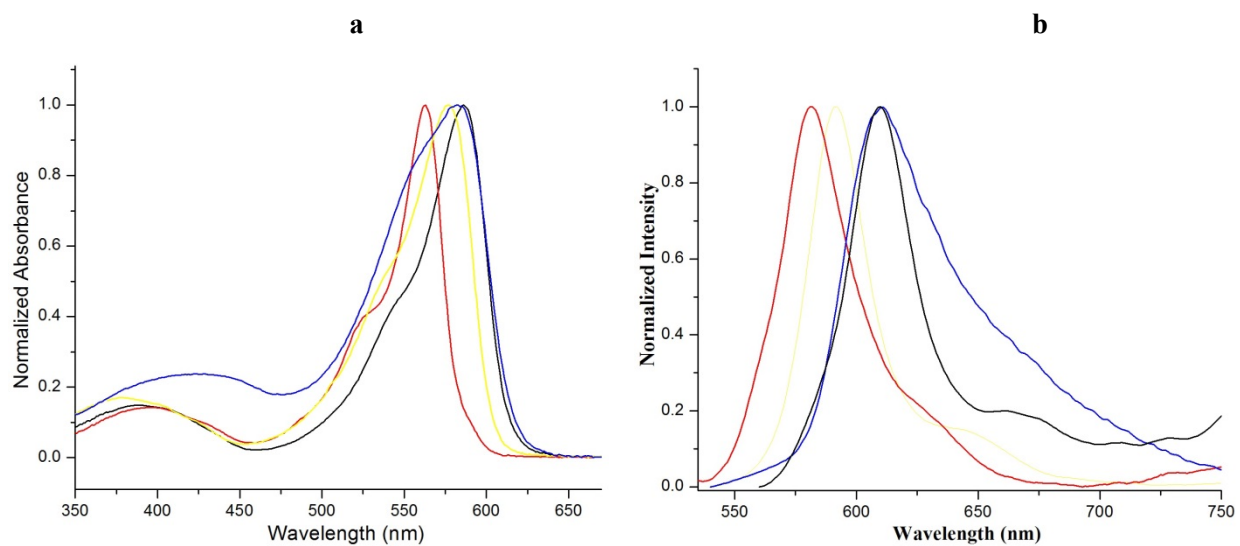
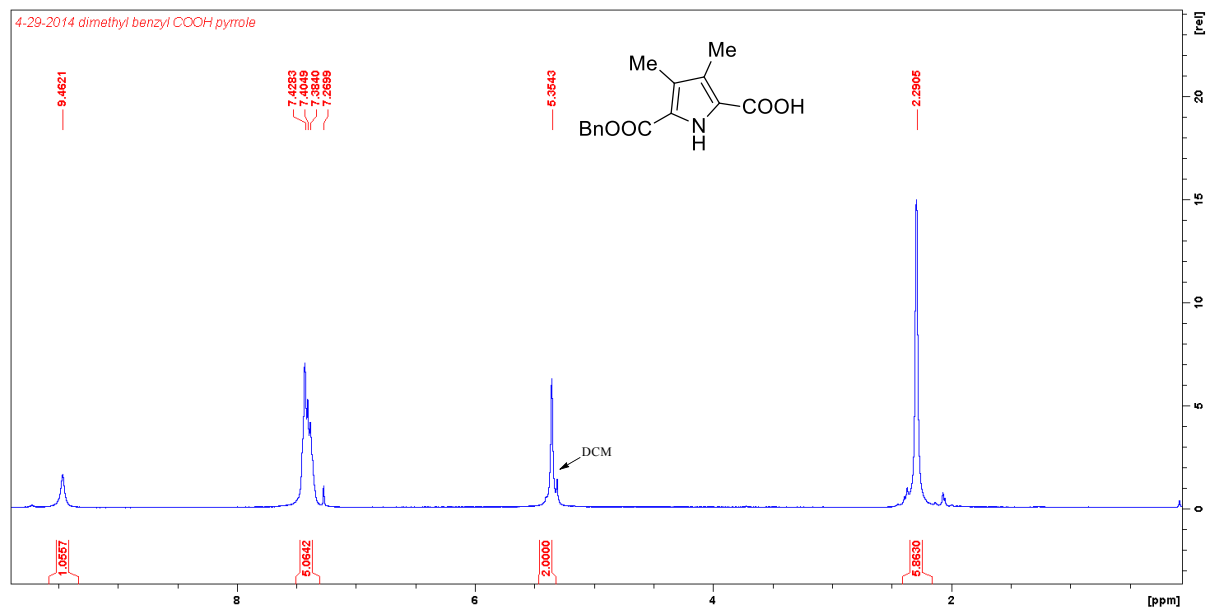


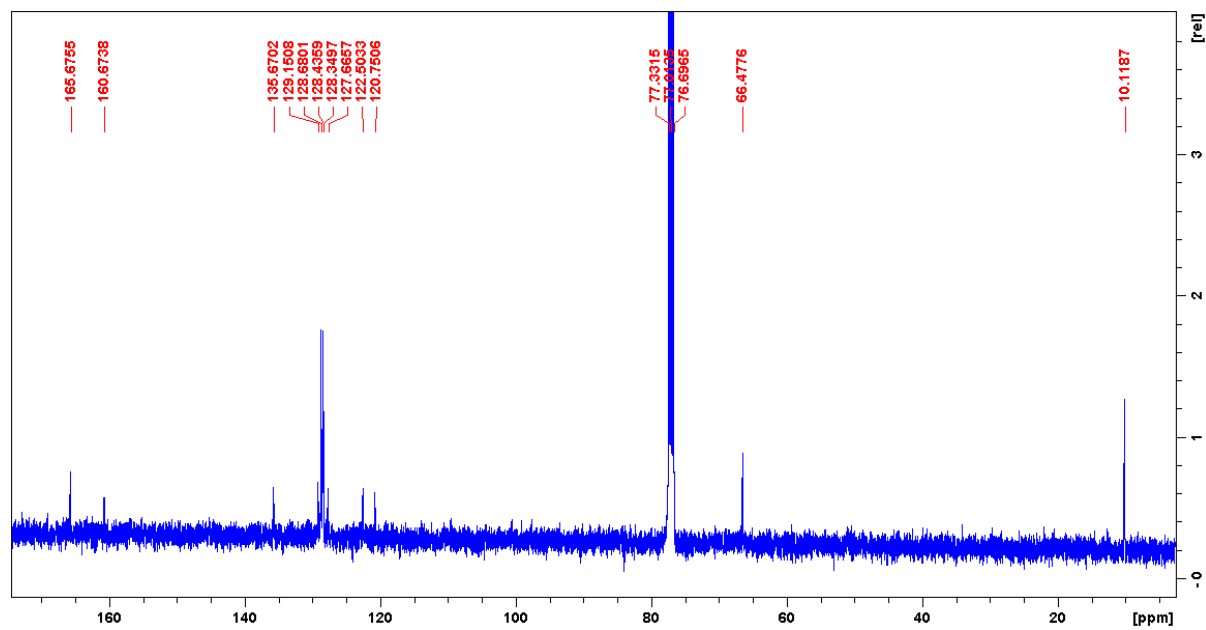
Figure S3: Normalized UV-Vis (a) and fluorescence (b) spectra of BODIPY **6b** (black), **8** (yellow), **10** (red), and **13** (Blue) in dichloromethane at room temperature.

Copies of ^1H NMR and ^{13}C NMR spectra

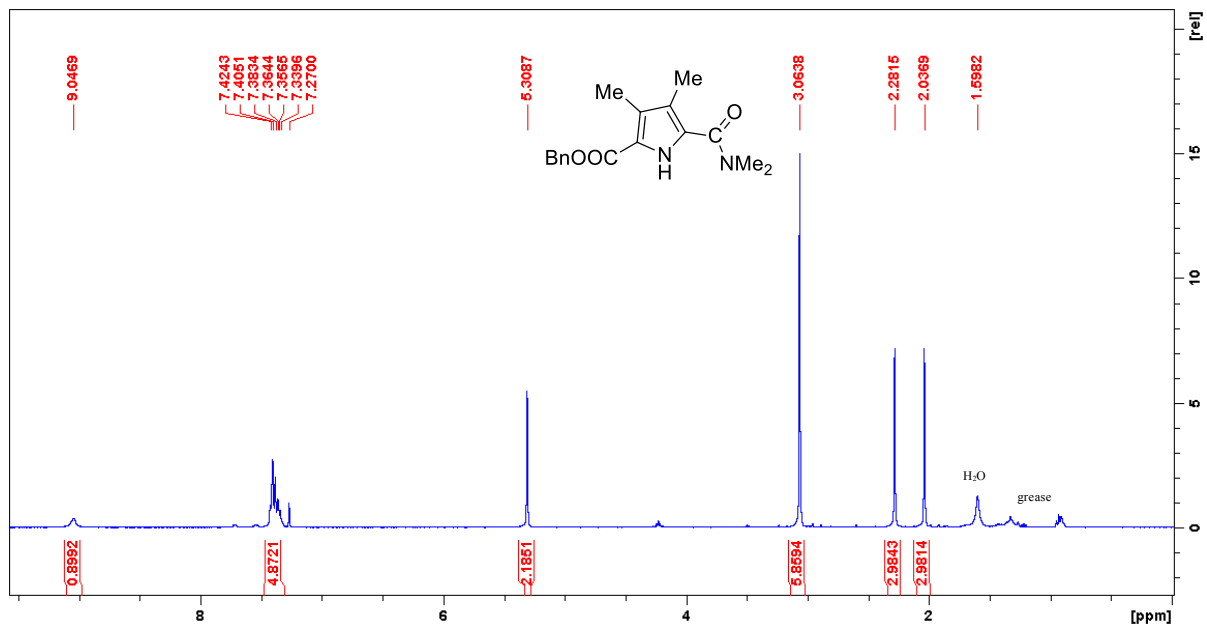
^1H NMR spectra of pyrrole **2b**



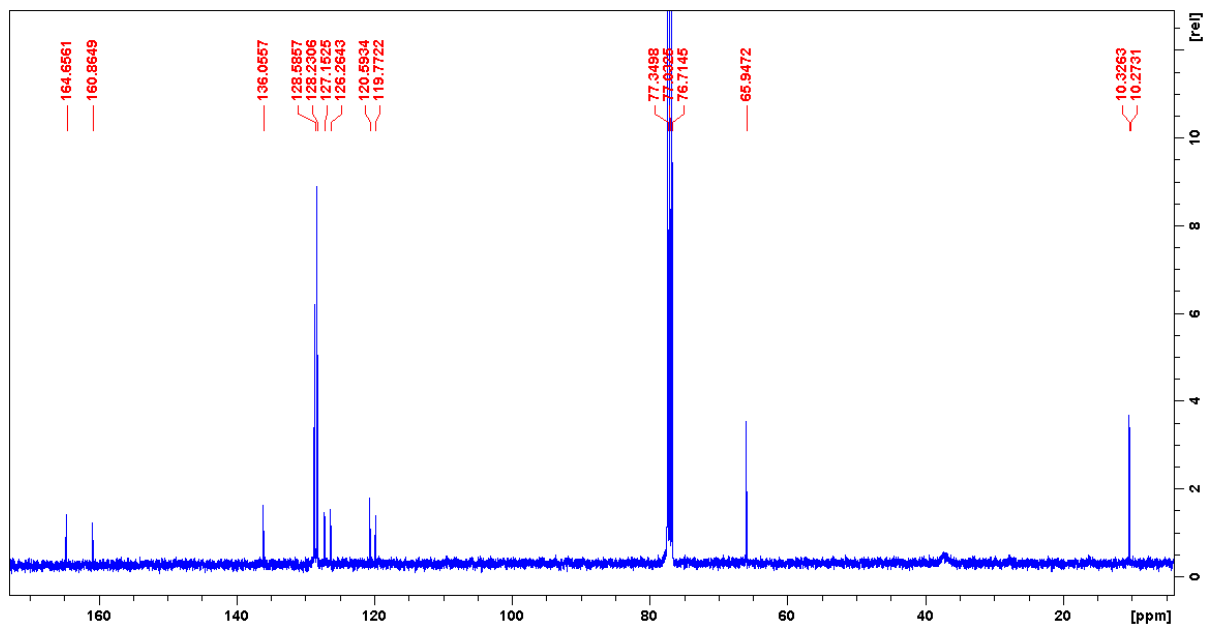
^{13}C NMR spectra of pyrrole **2b**



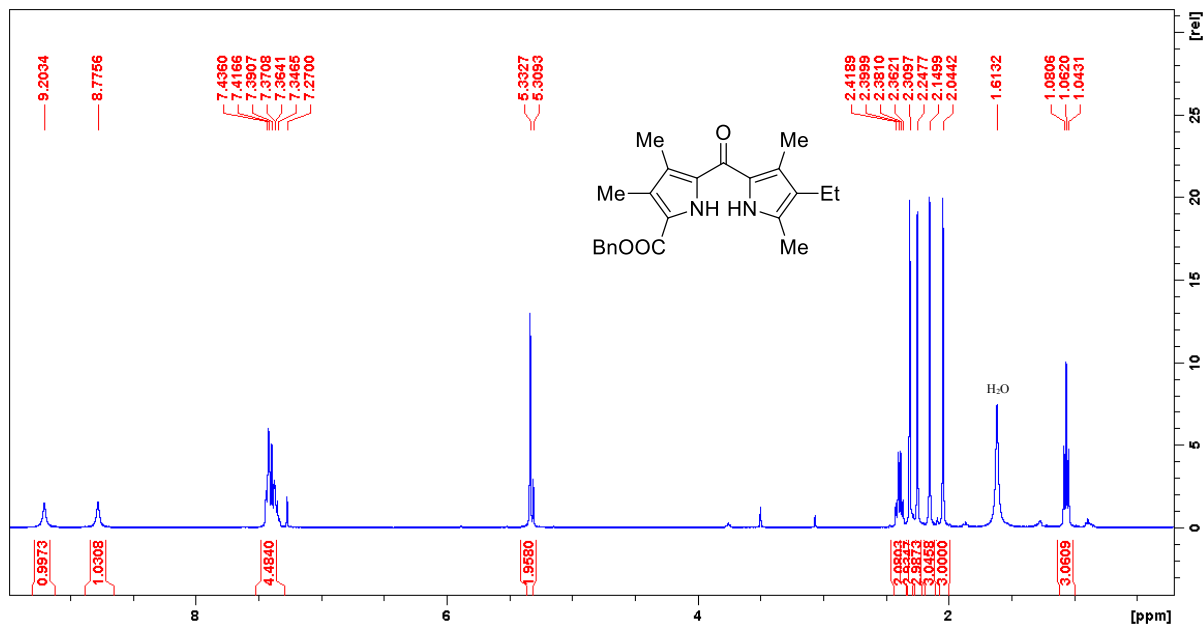
¹H NMR spectra of pyrrole 2c



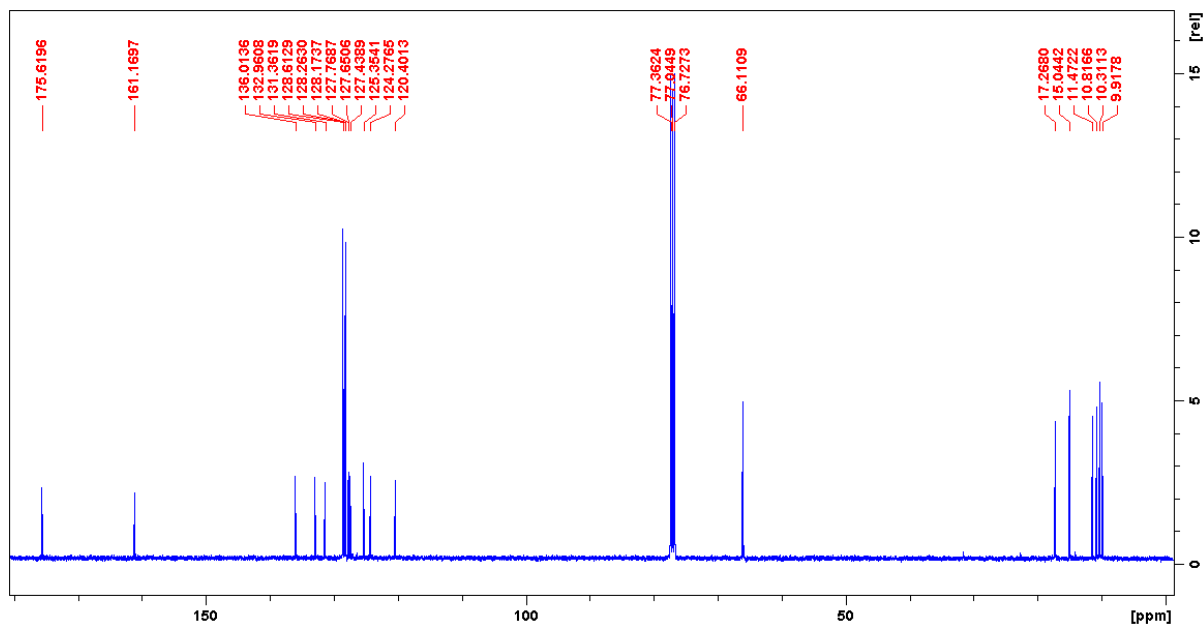
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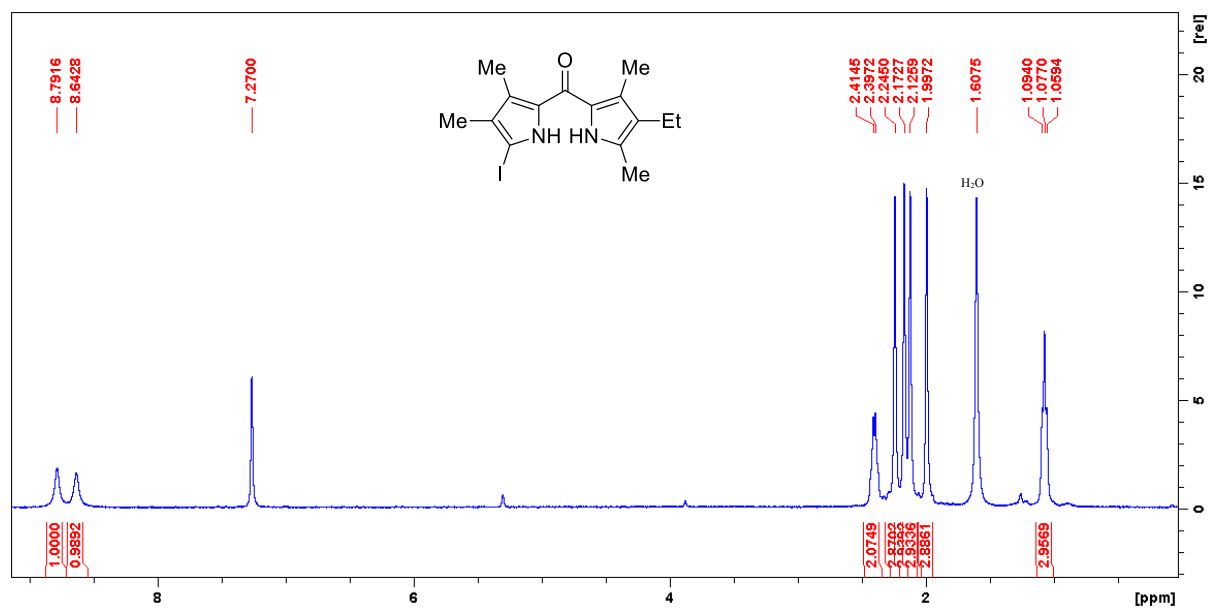
¹H NMR spectra of dipyrroketone **3**



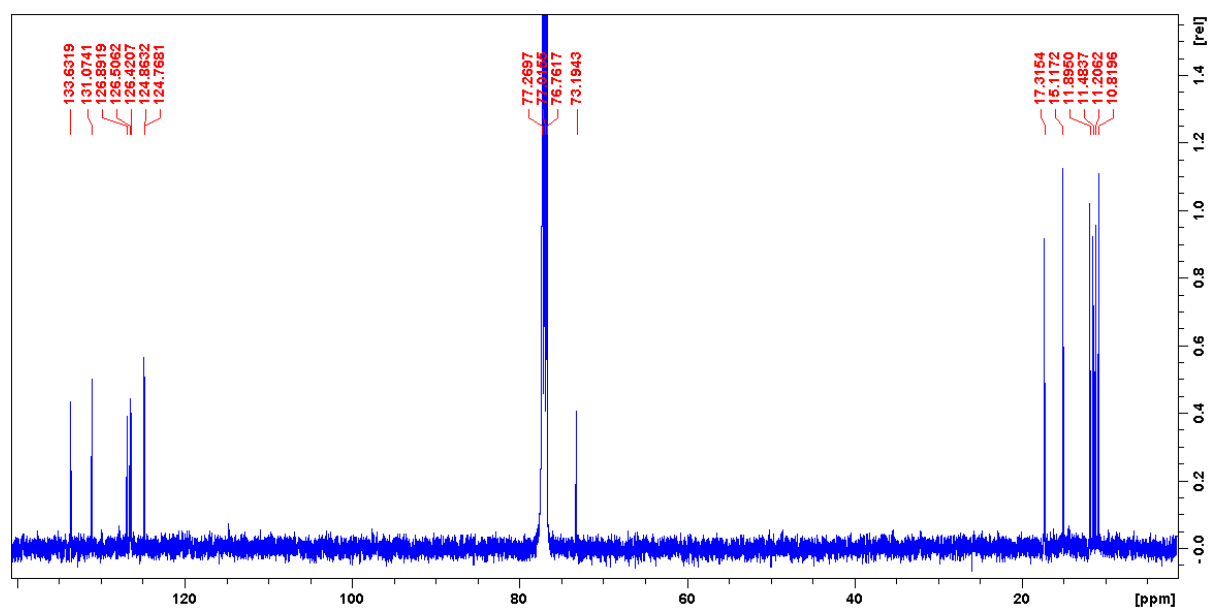
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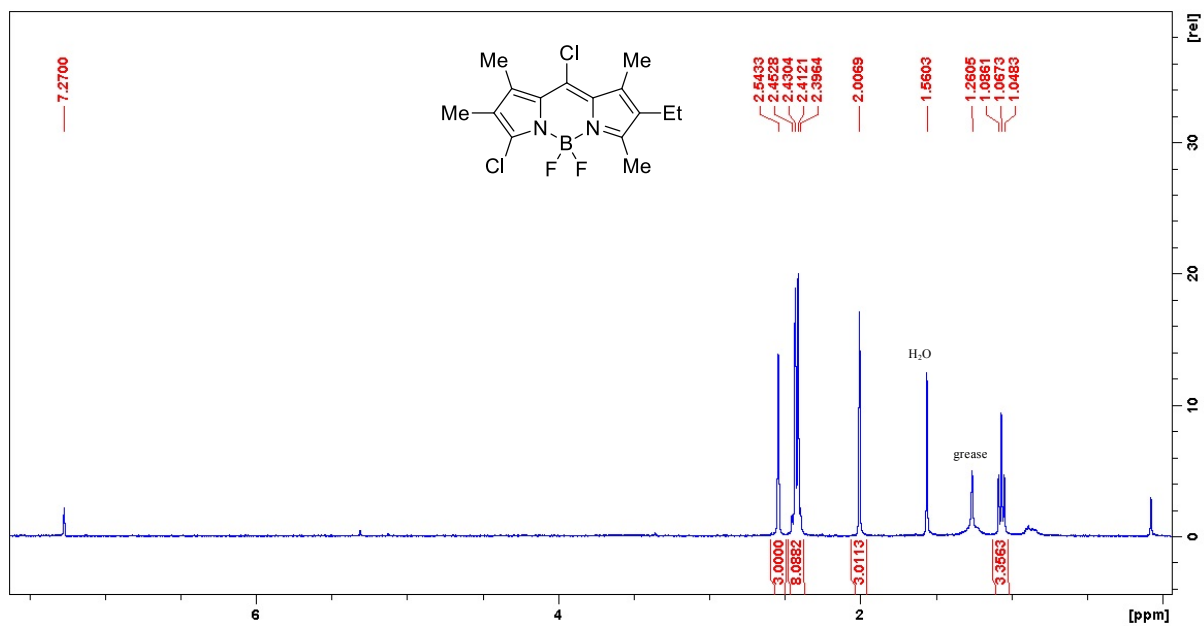
¹H NMR spectra of compound 5



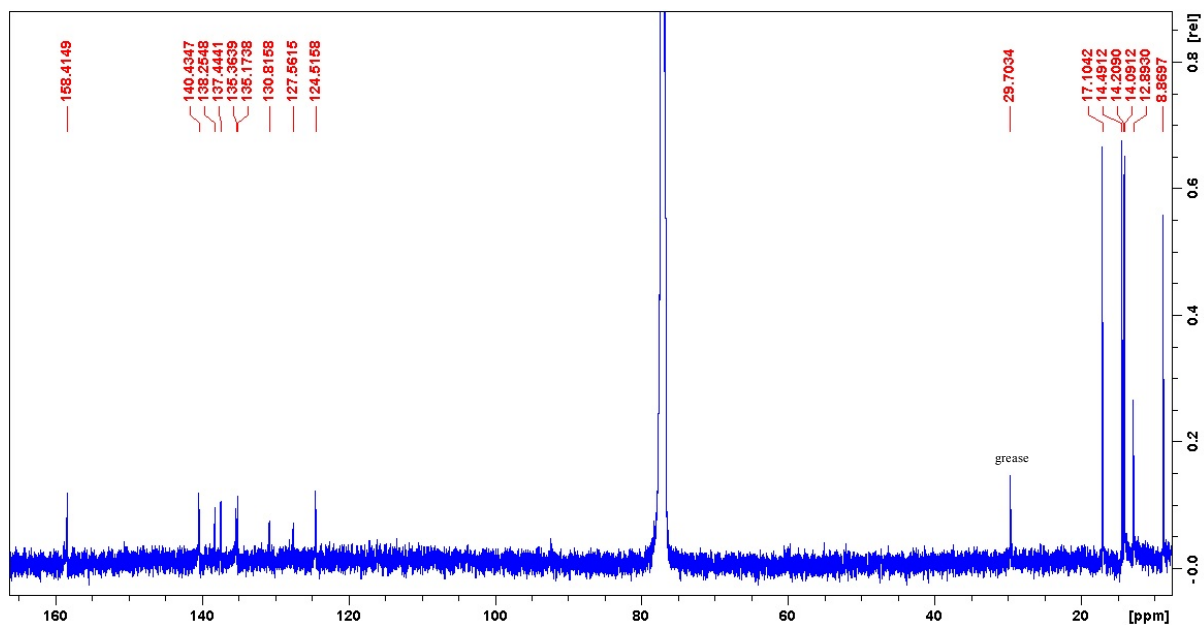
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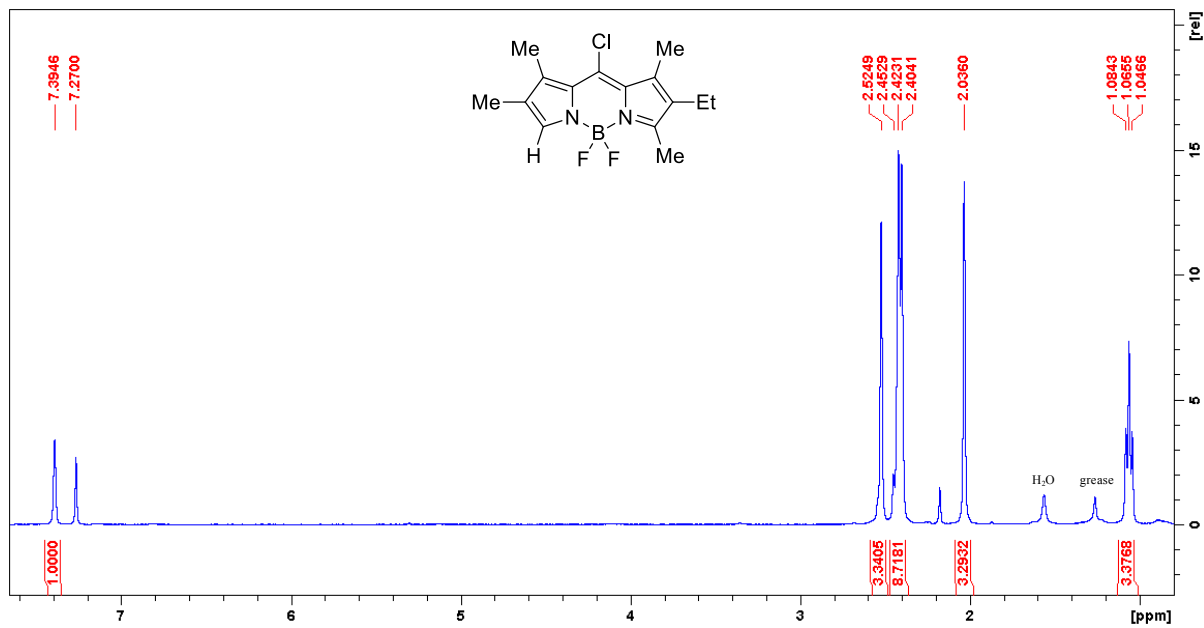
¹H NMR spectra of BODIPY 1a



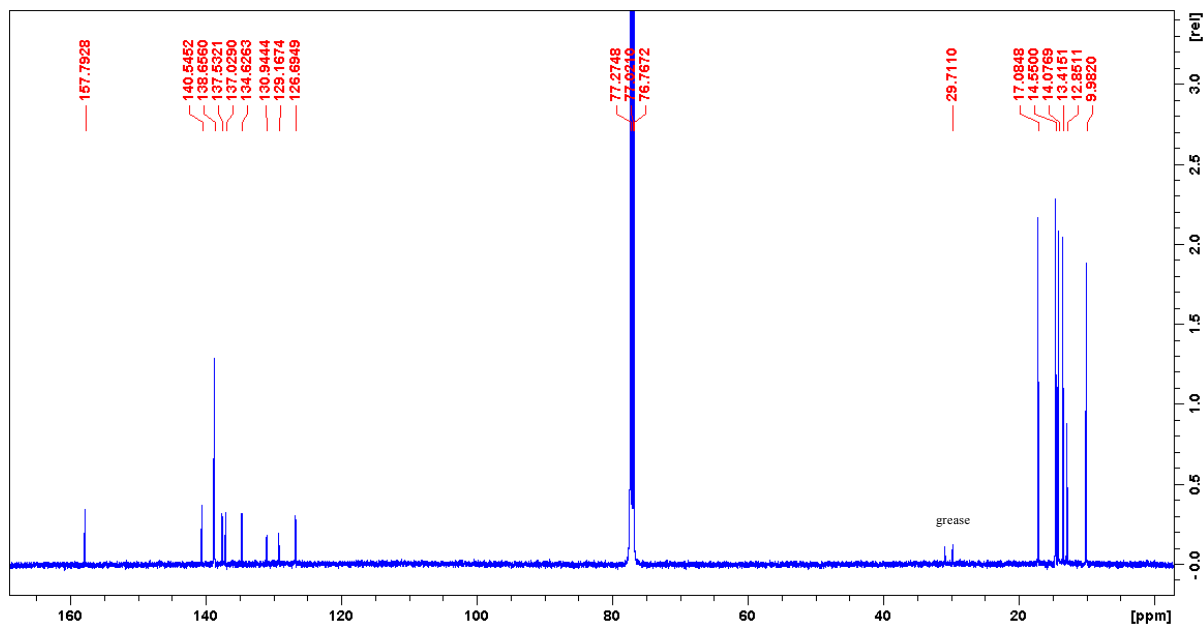
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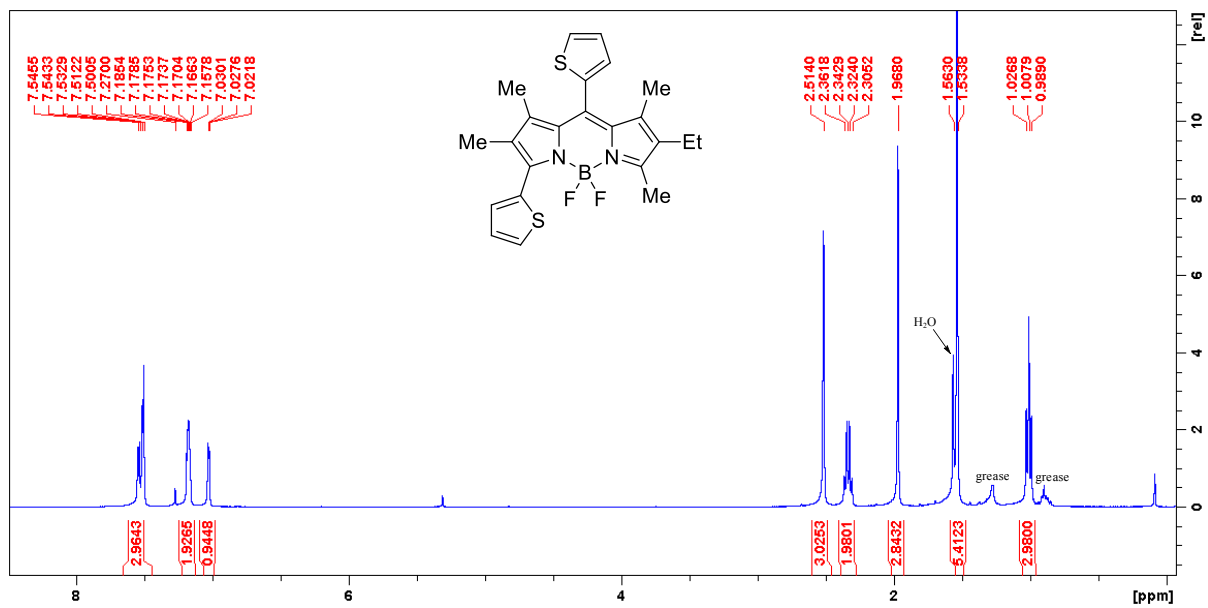
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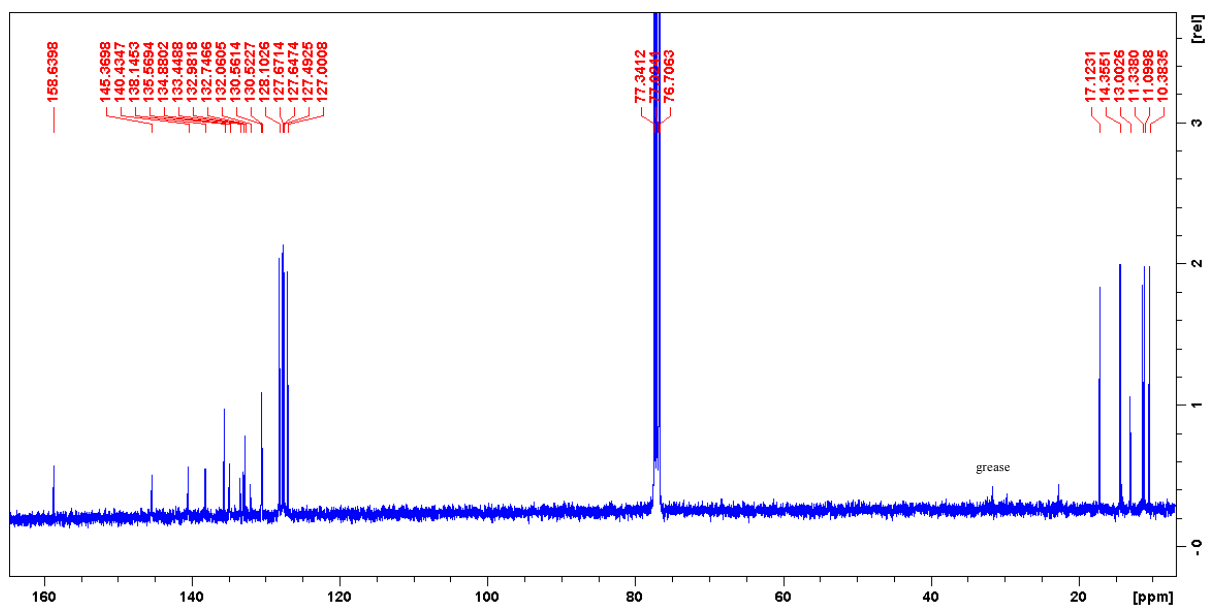
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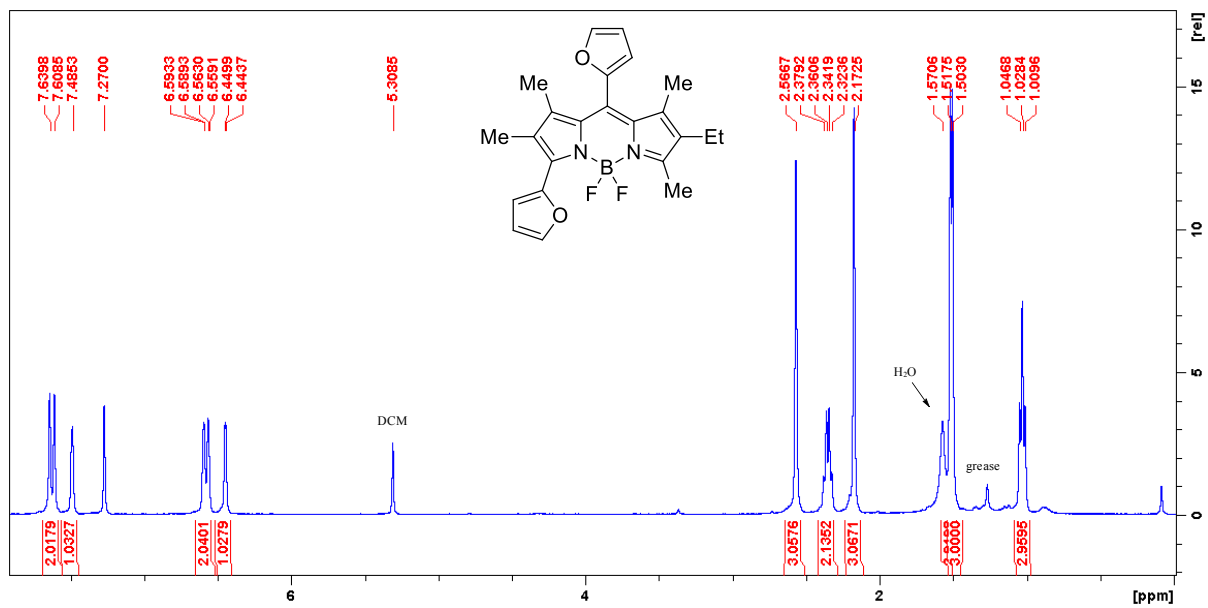
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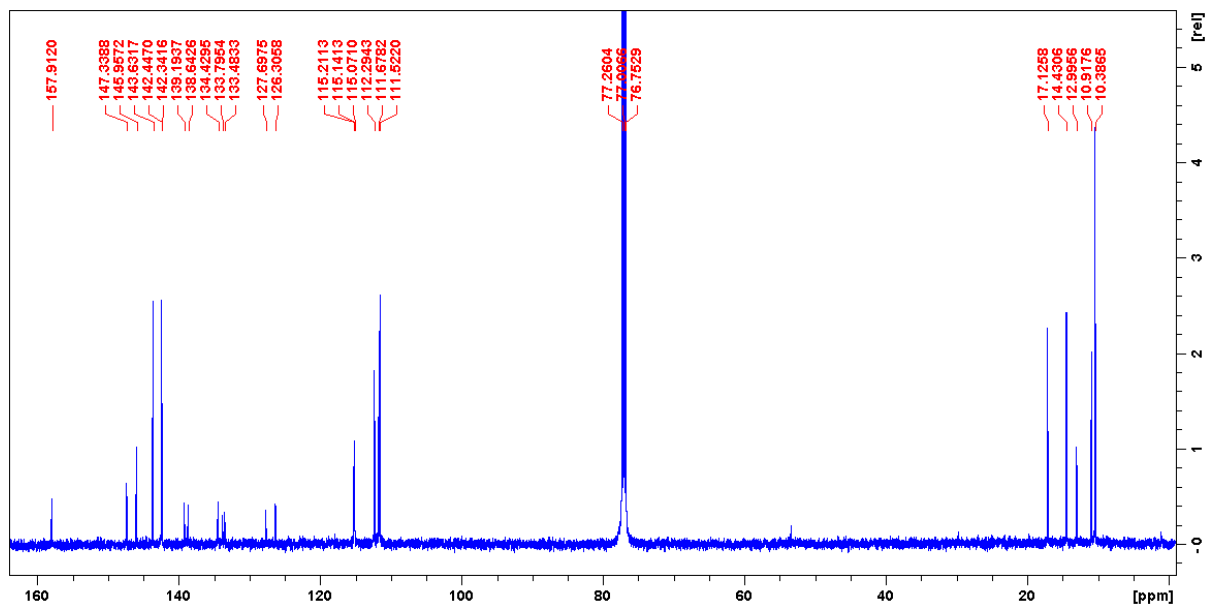
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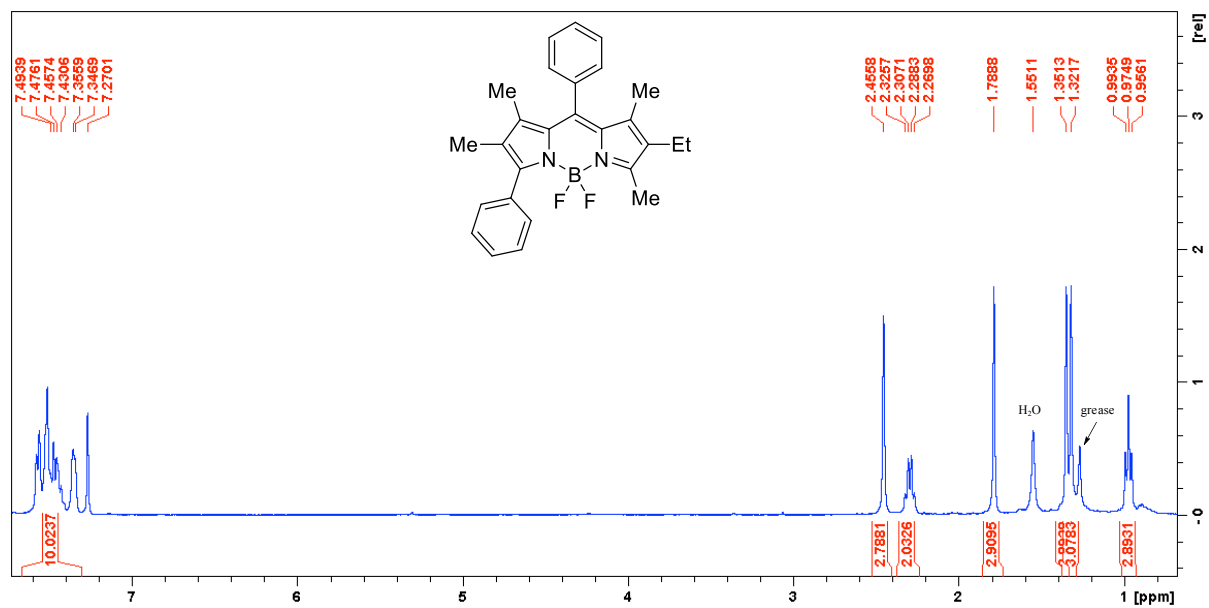
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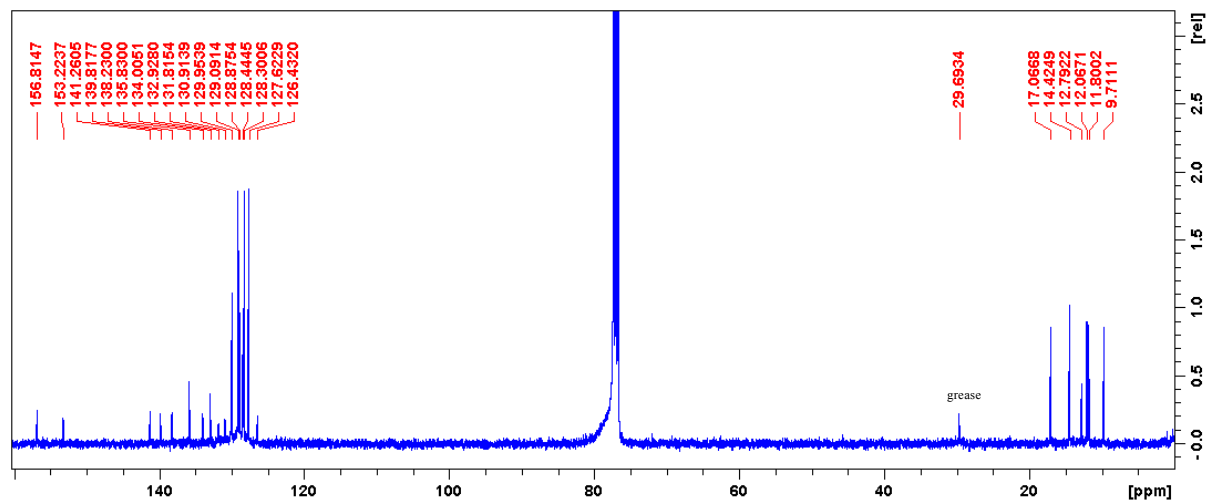
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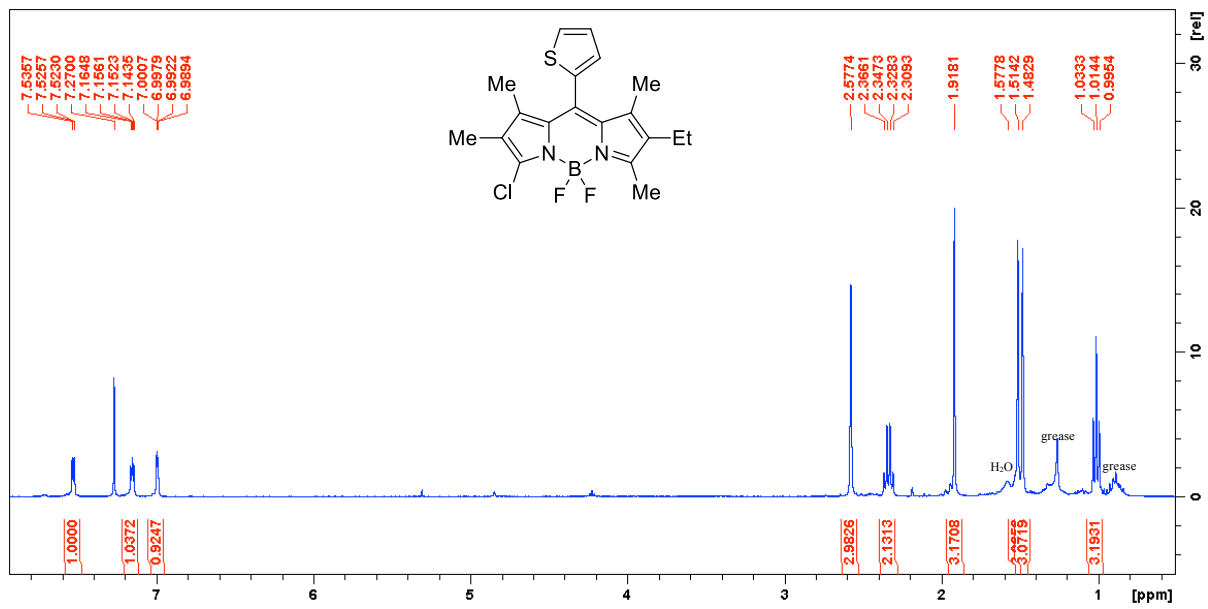
^1H NMR spectra of BODIPY **6c**



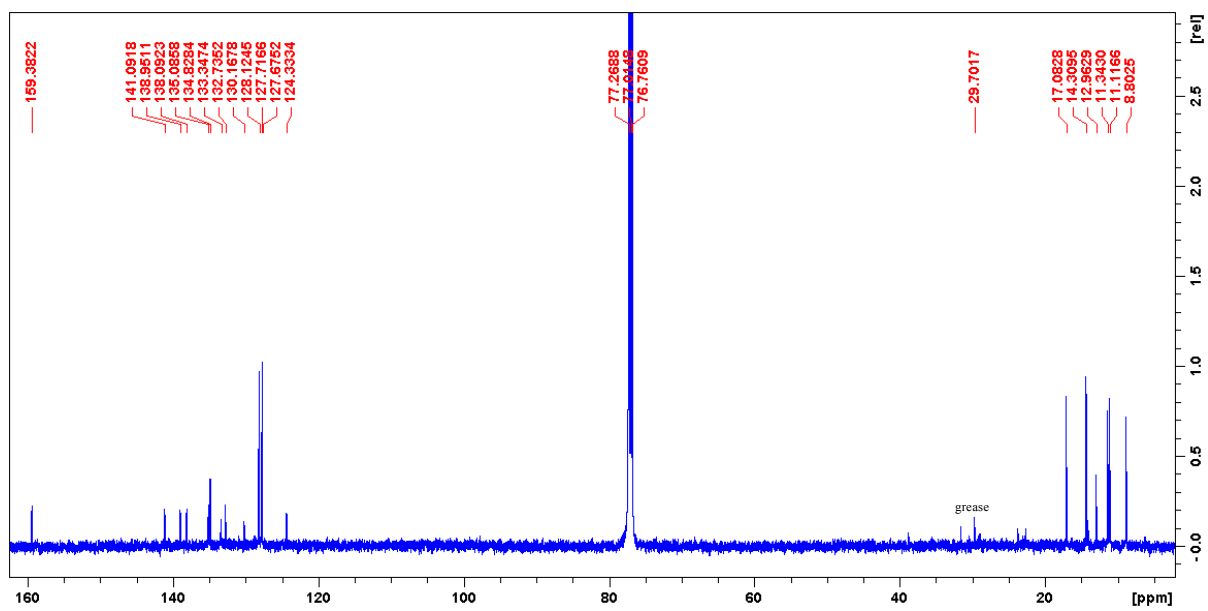
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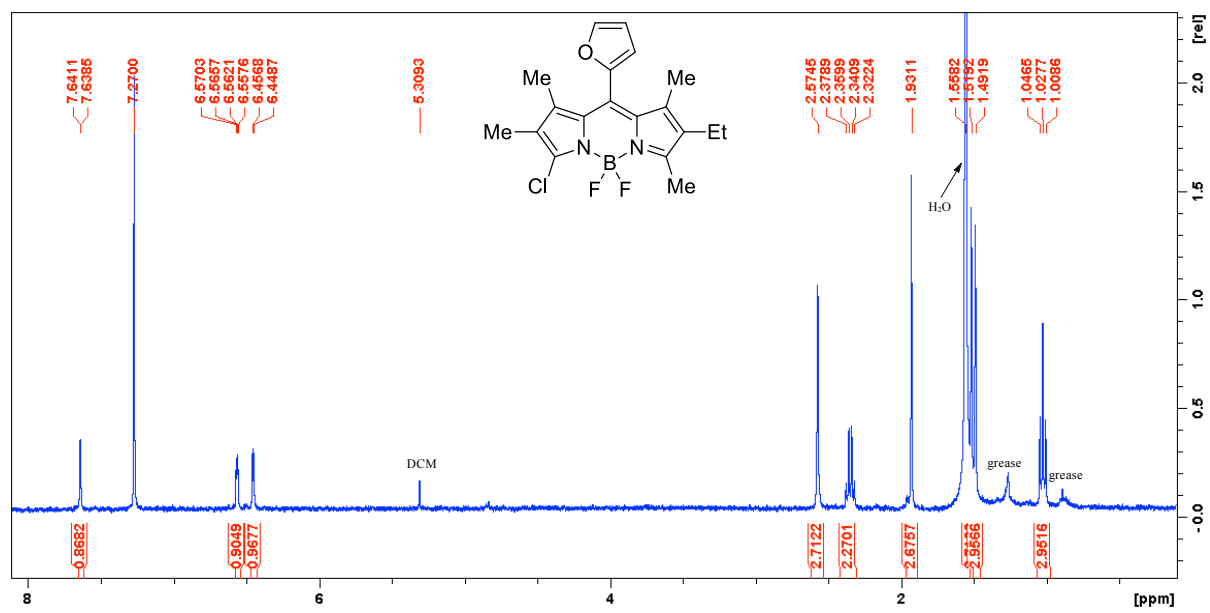
¹H NMR spectra of BODIPY 7a



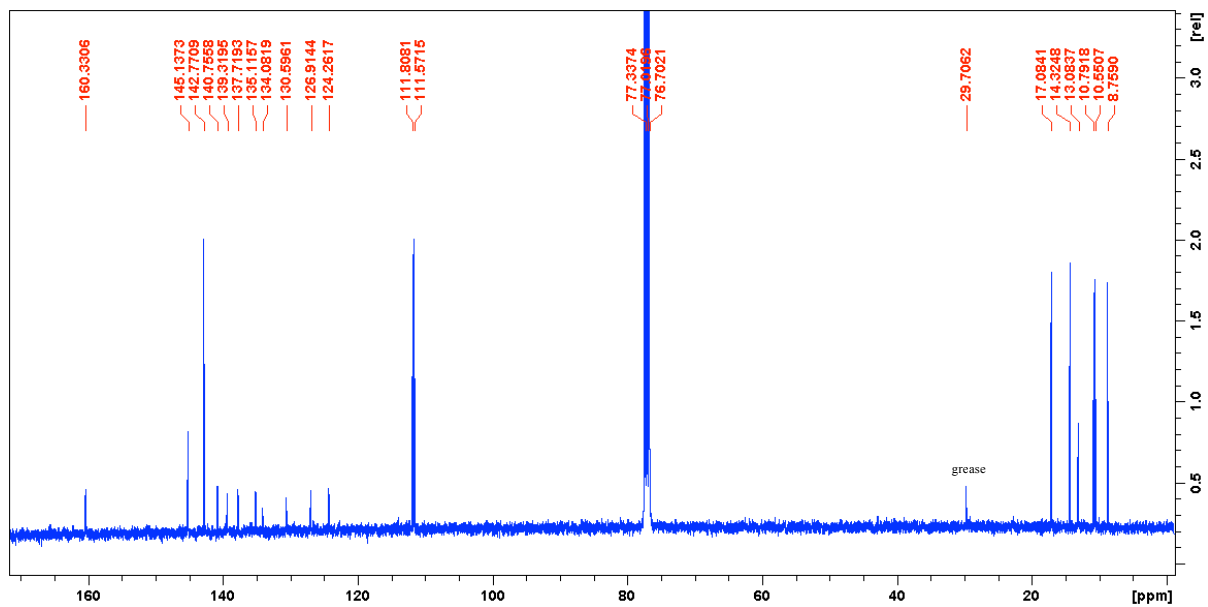
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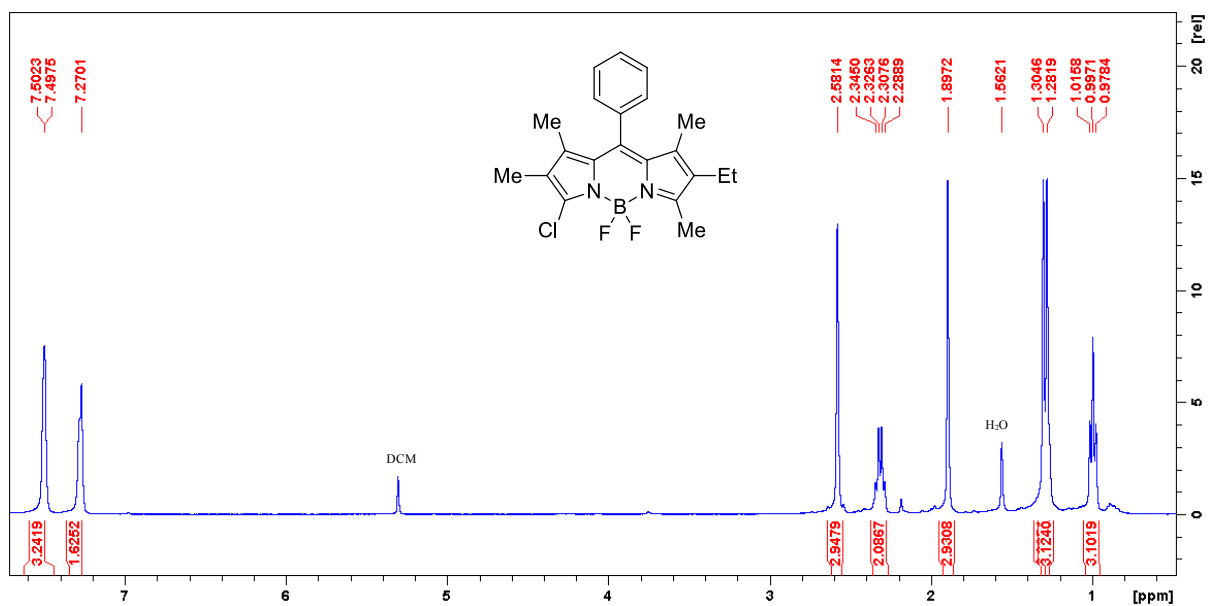
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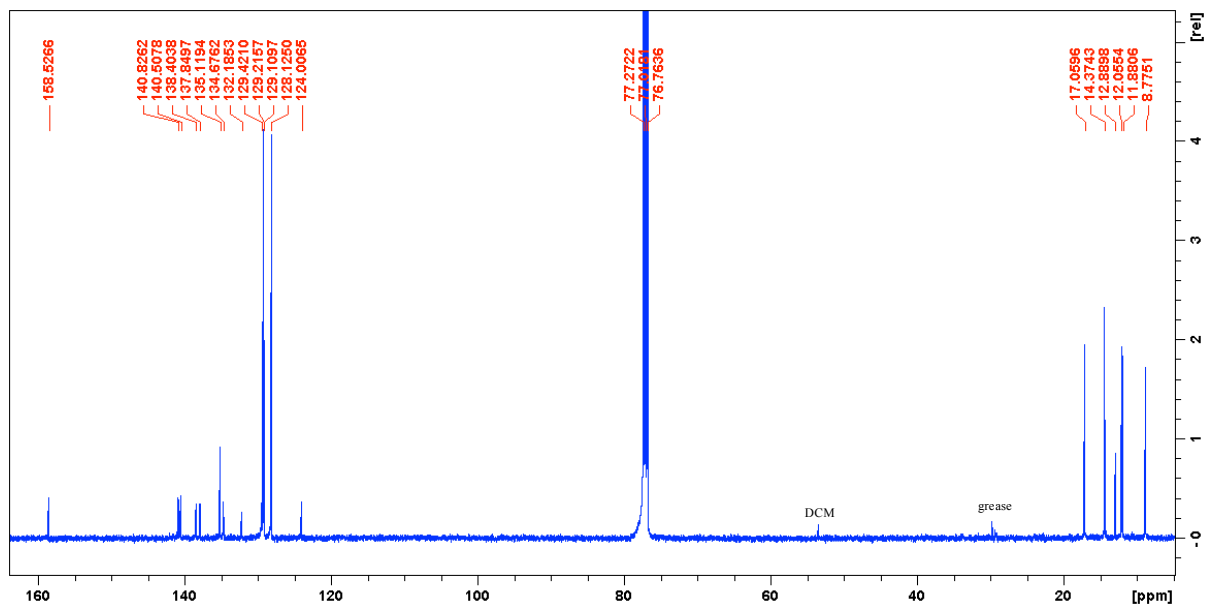
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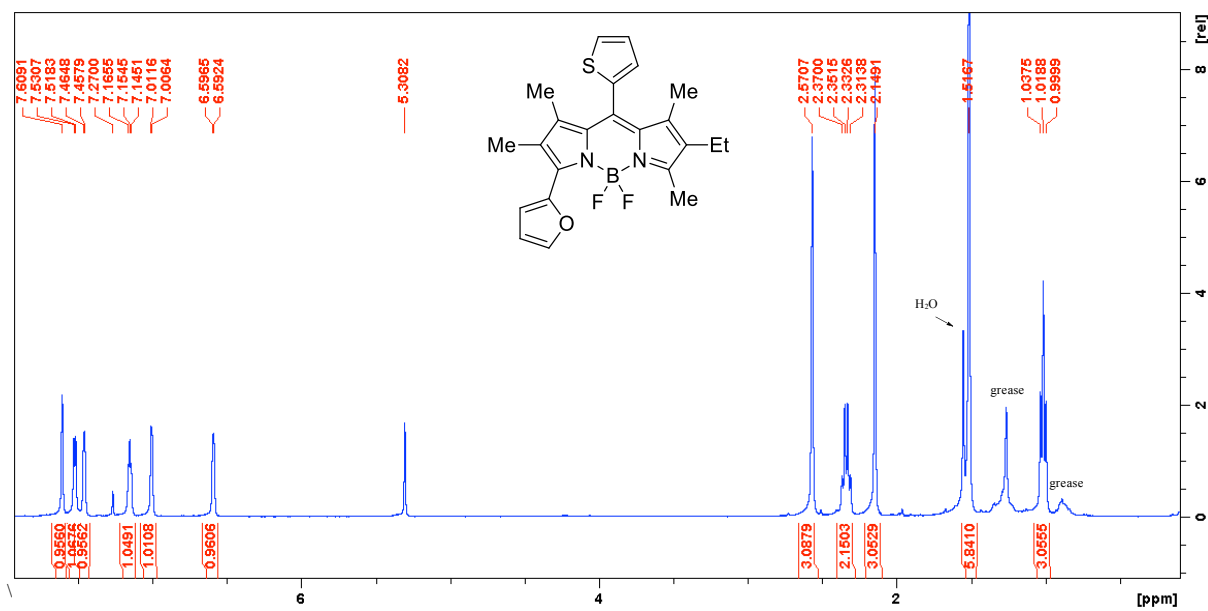
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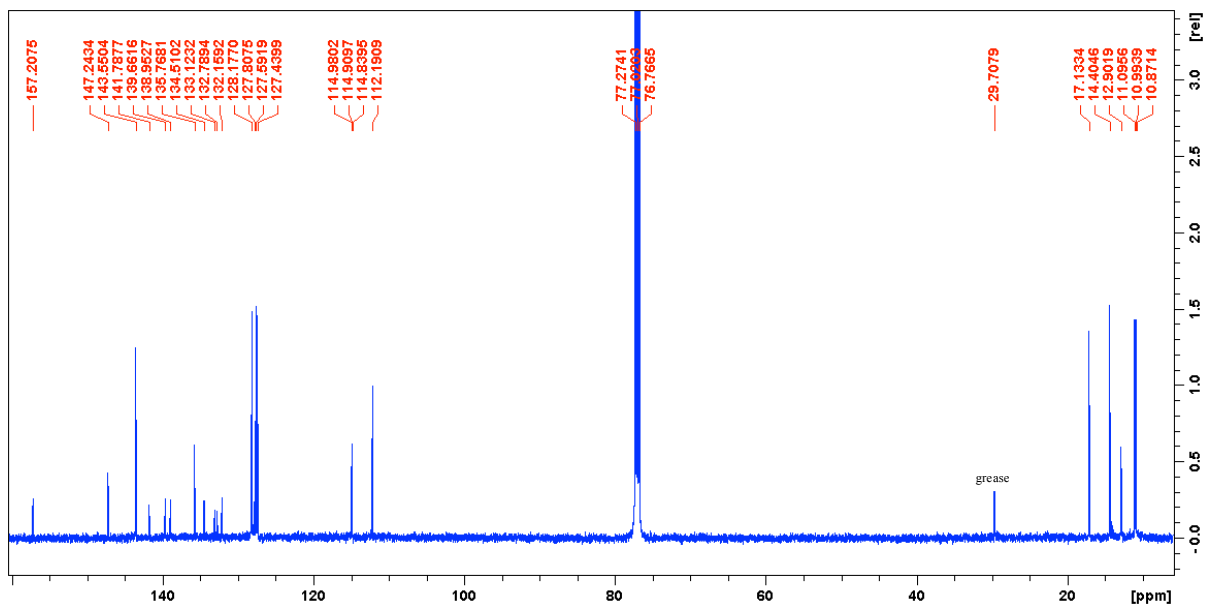
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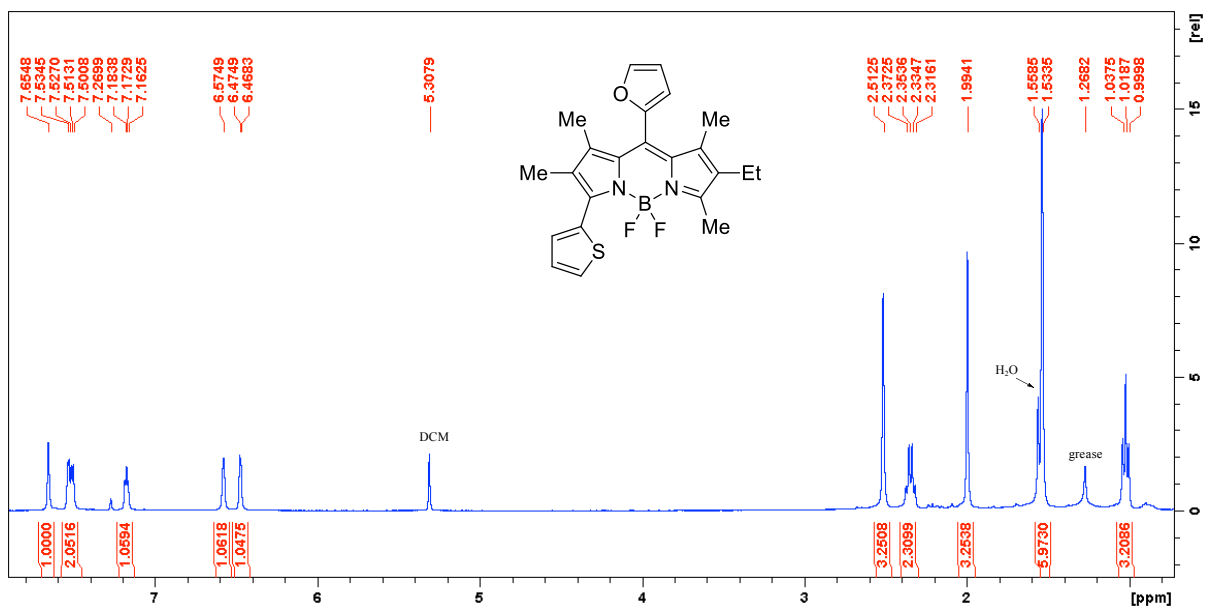
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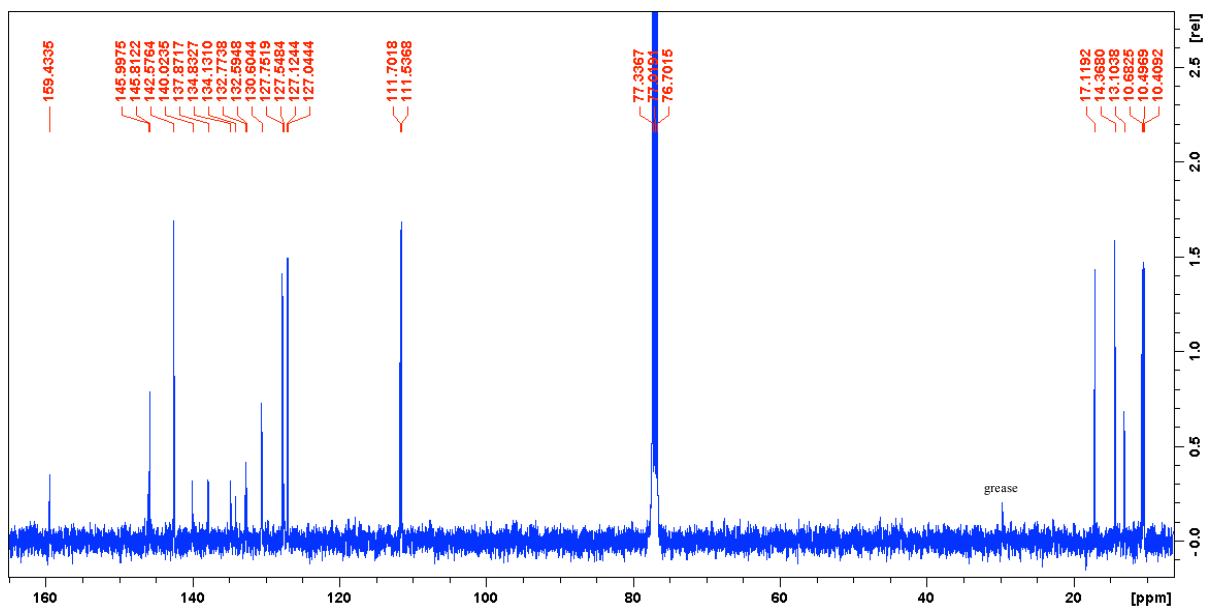
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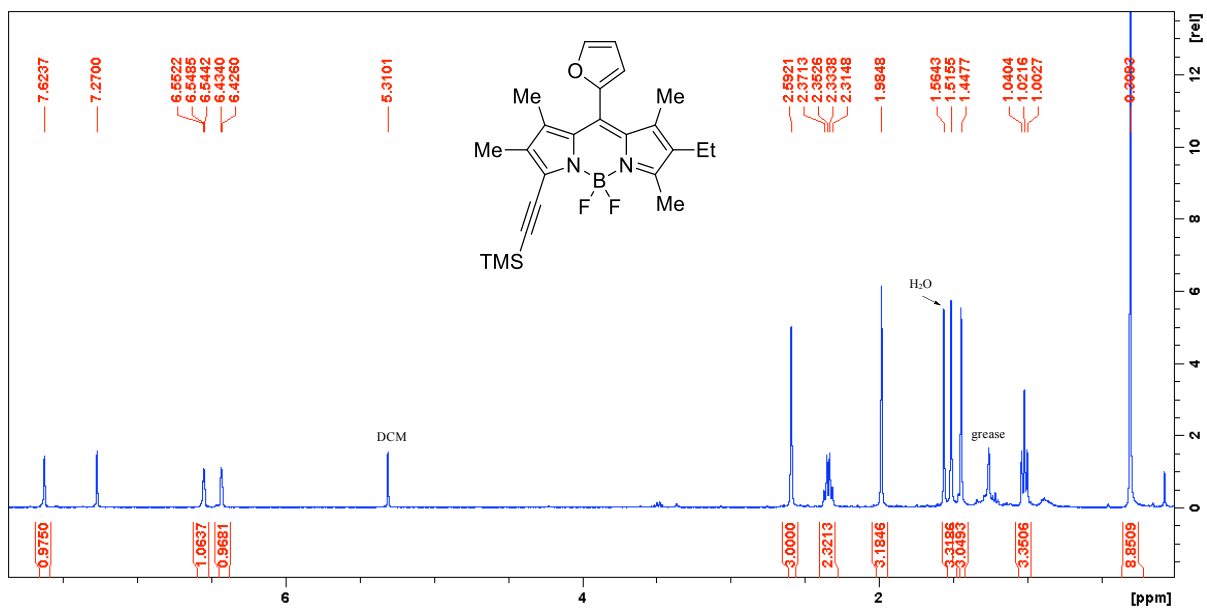
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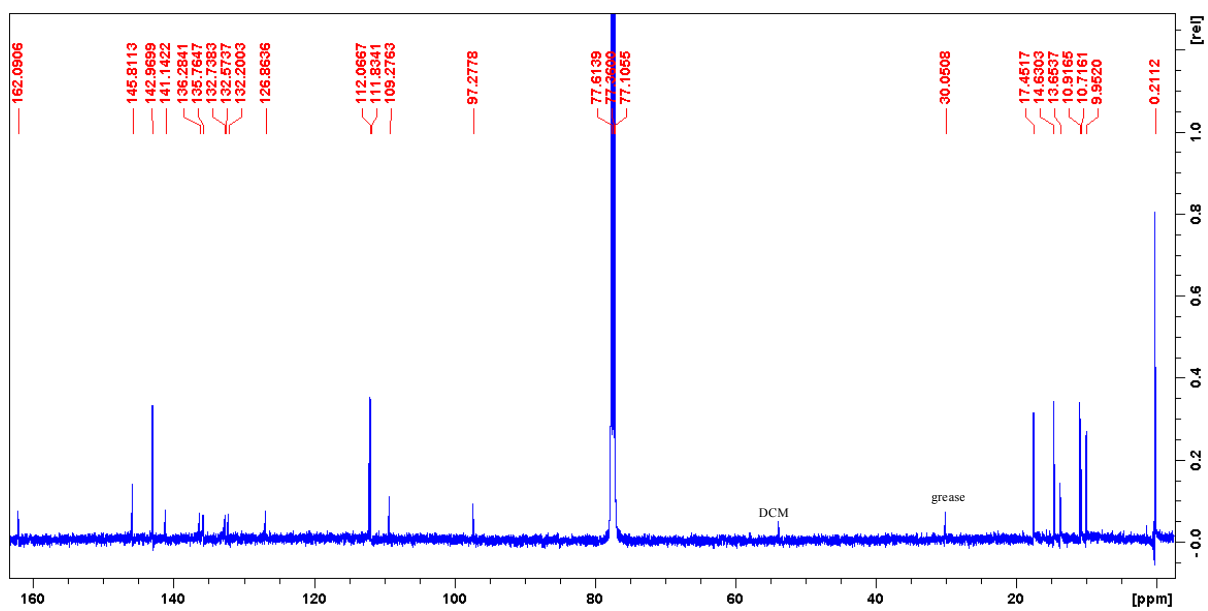
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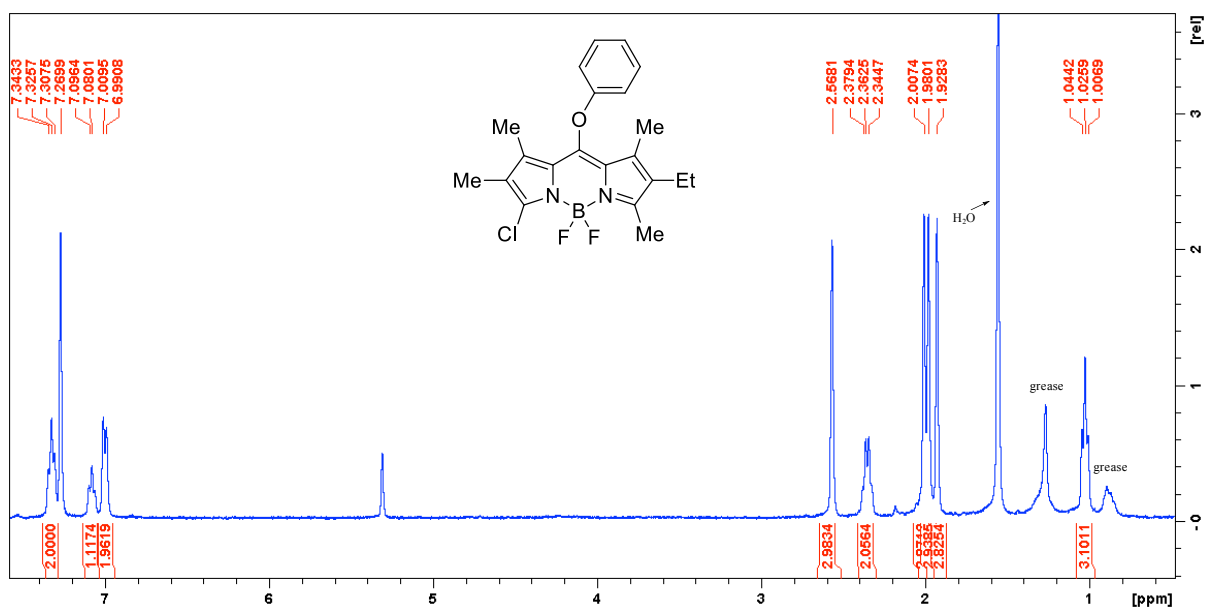
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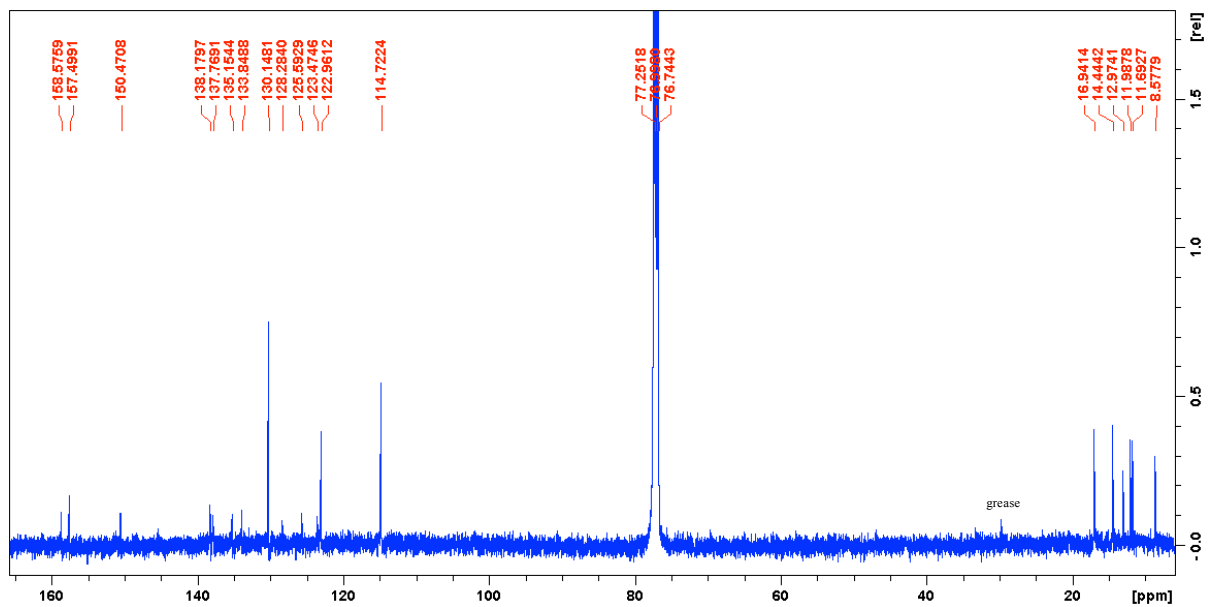
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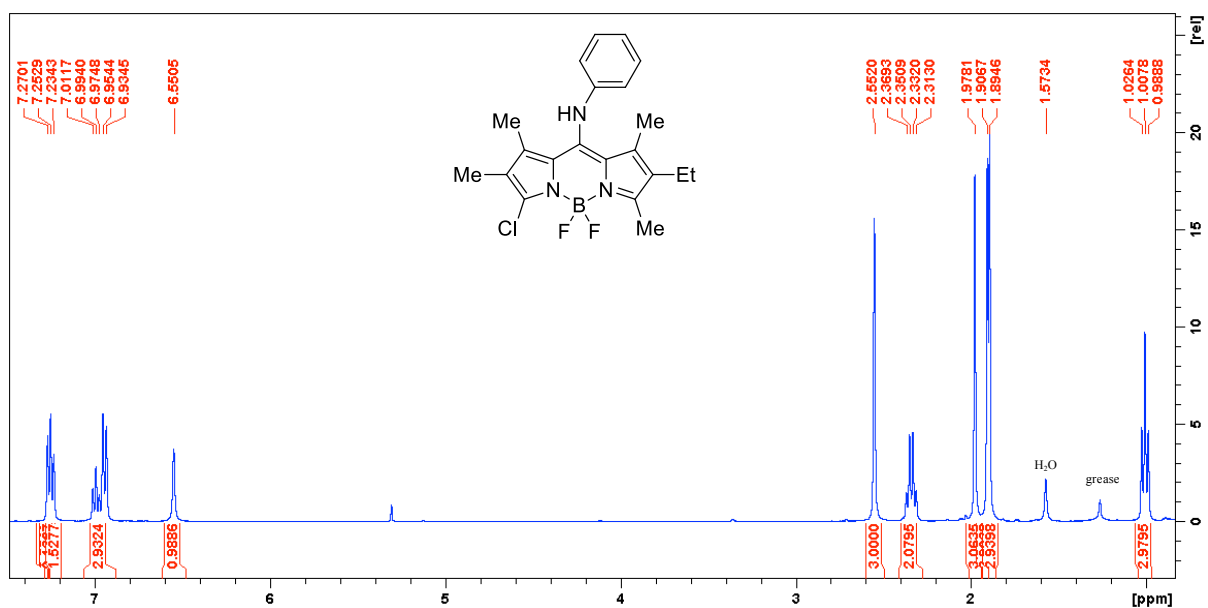
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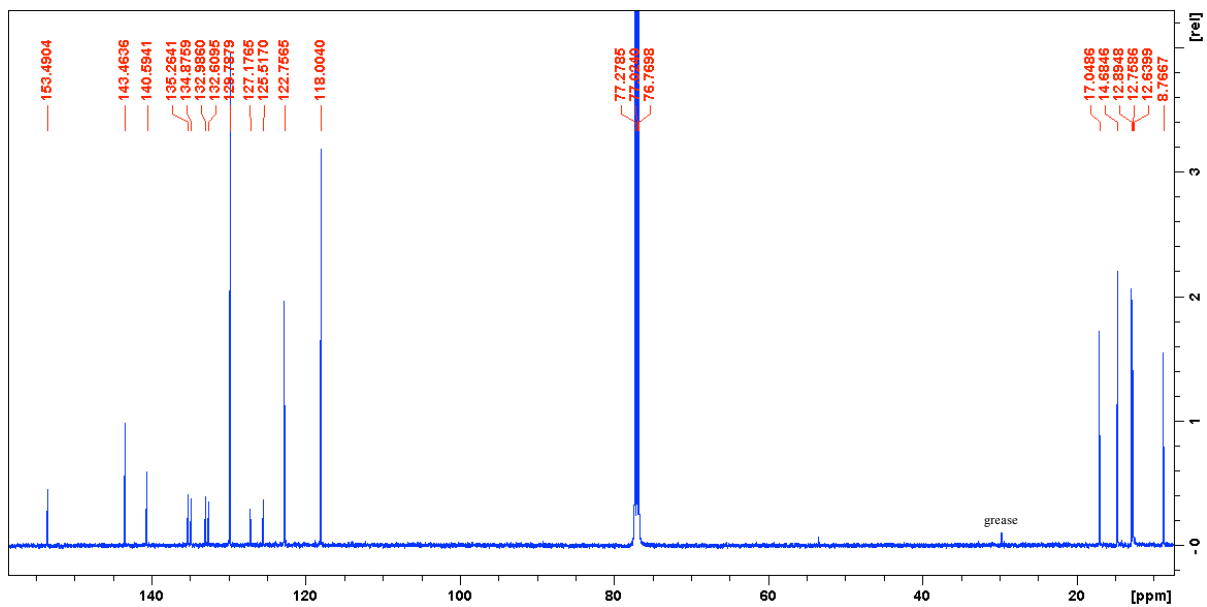
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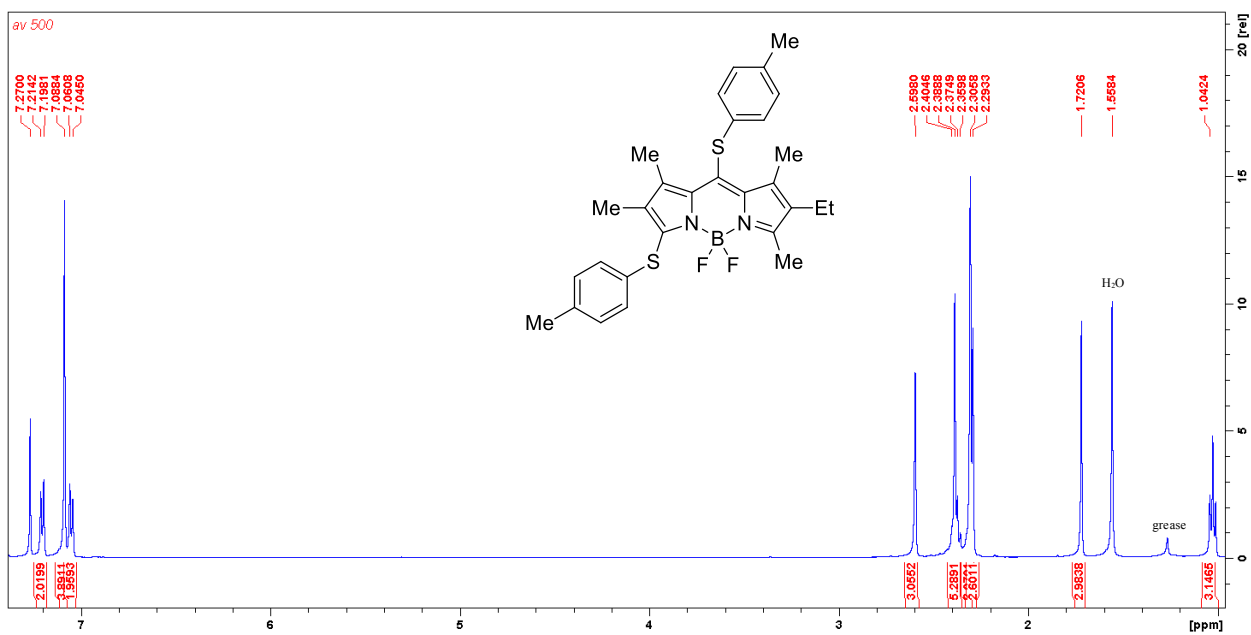
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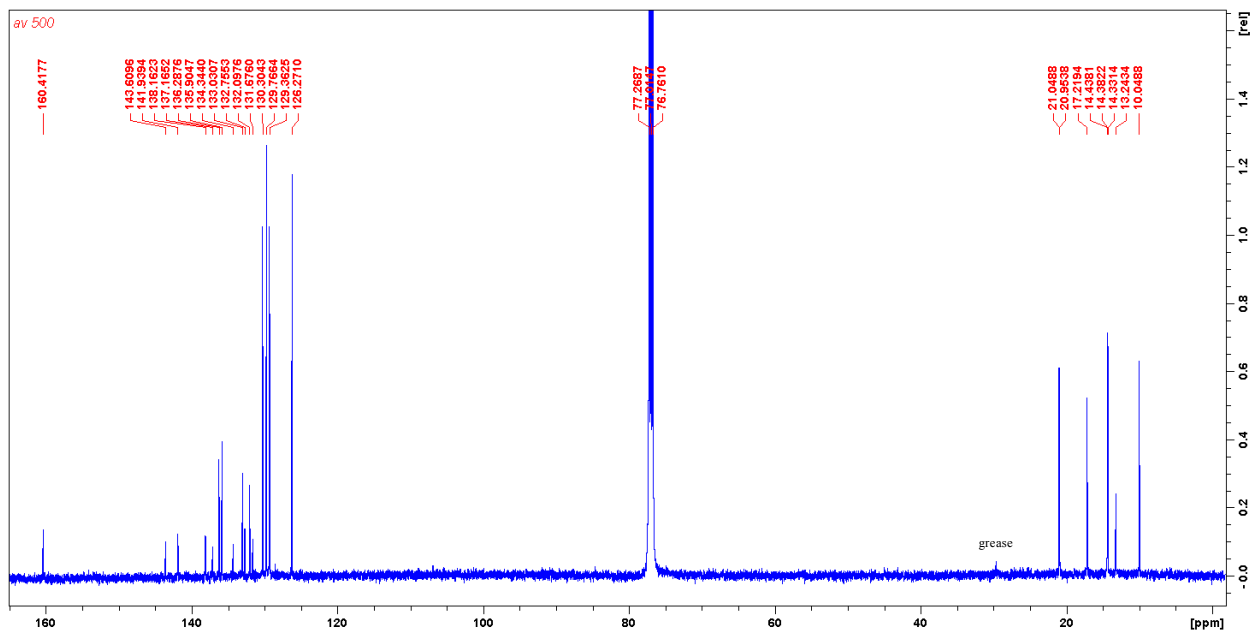
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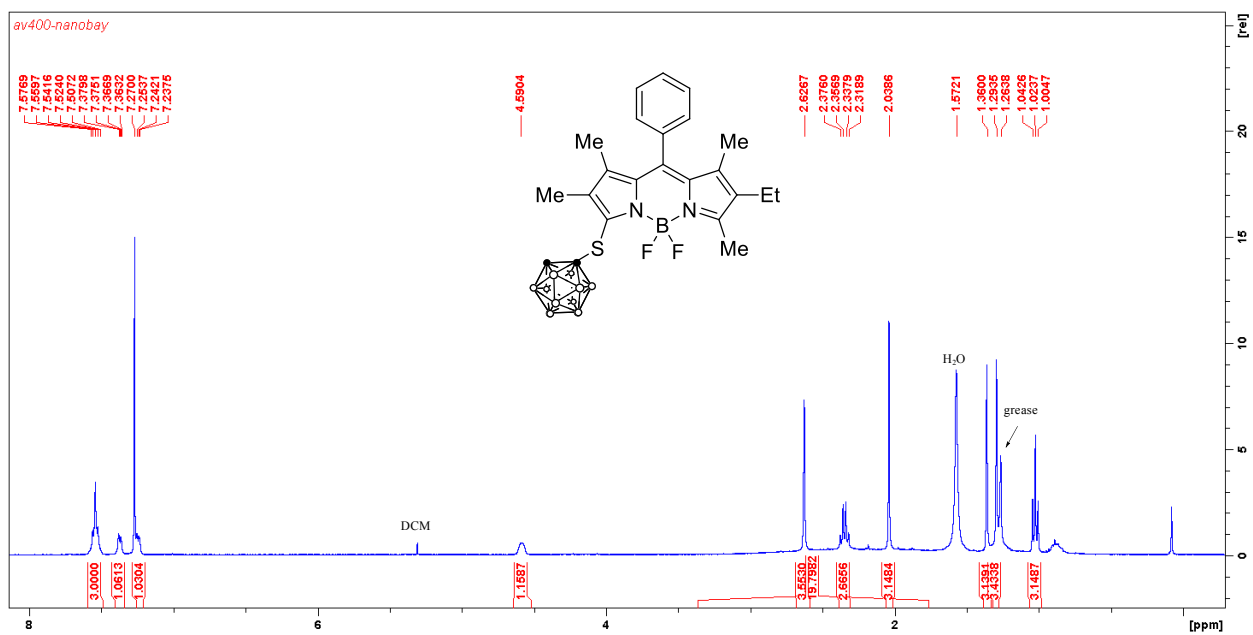
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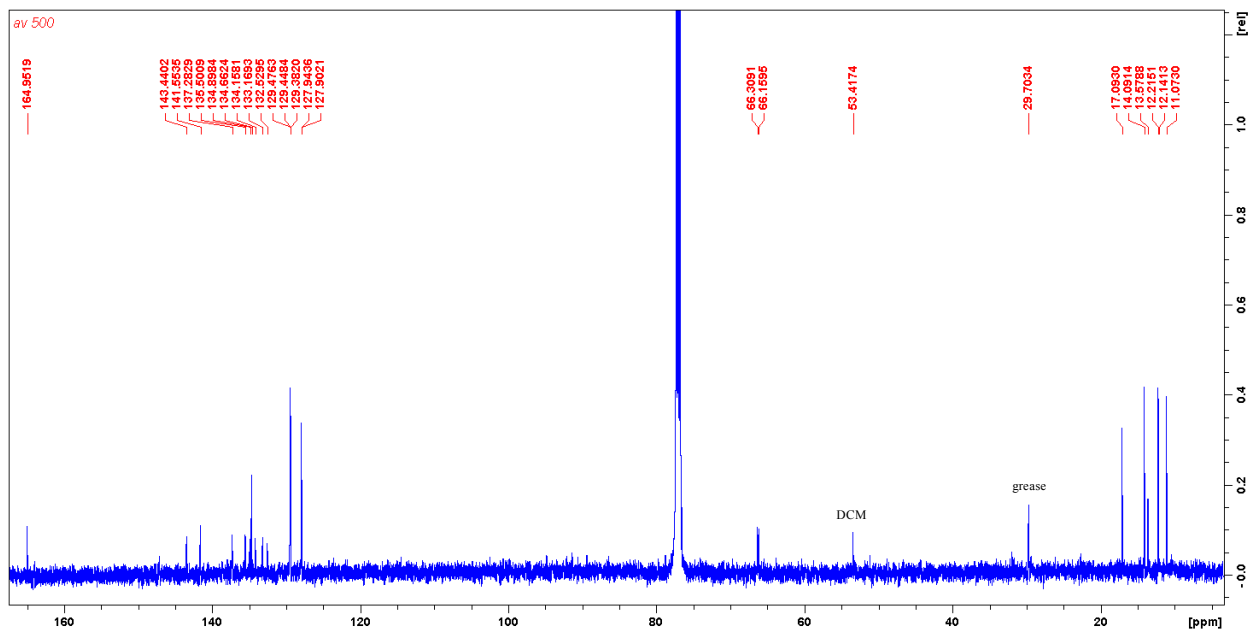
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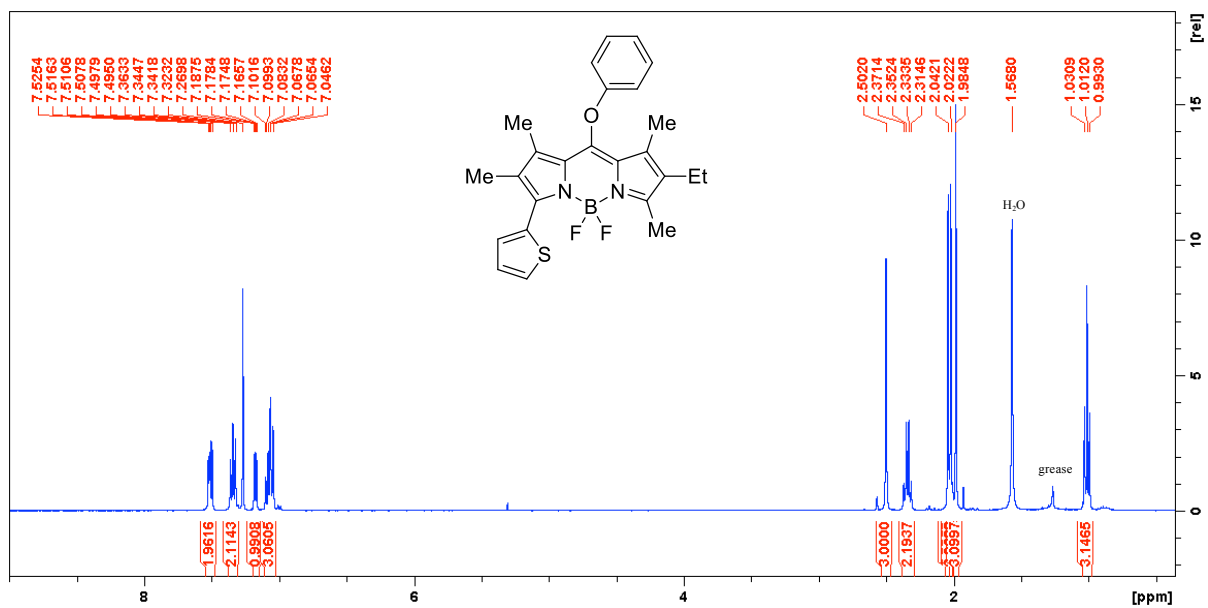
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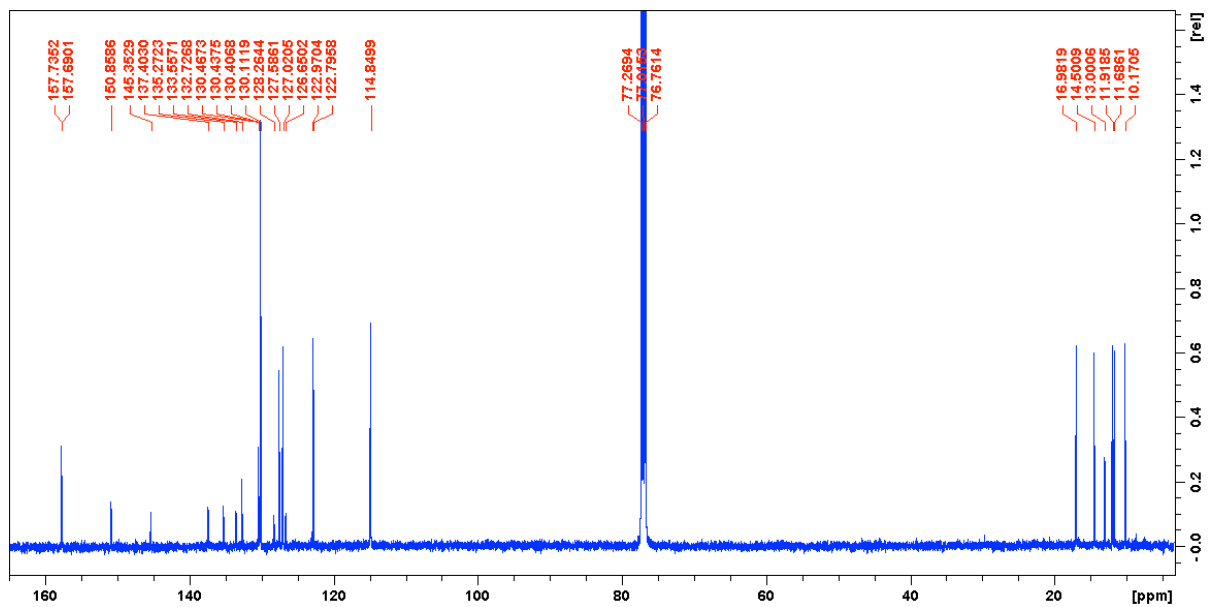
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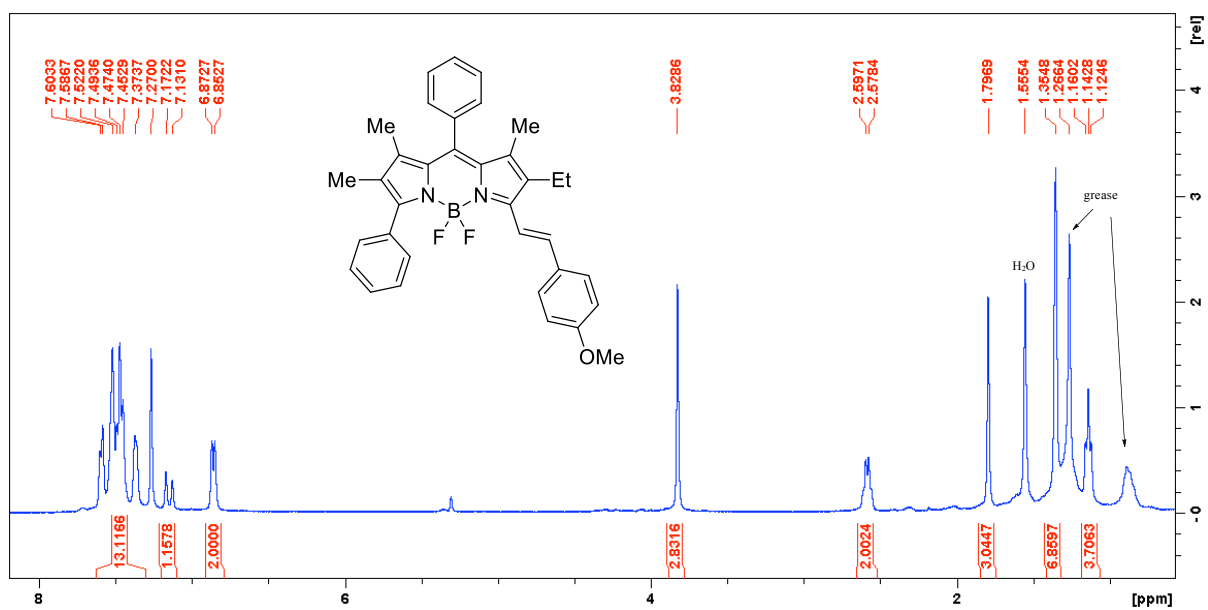
¹H NMR spectra of BODIPY 15



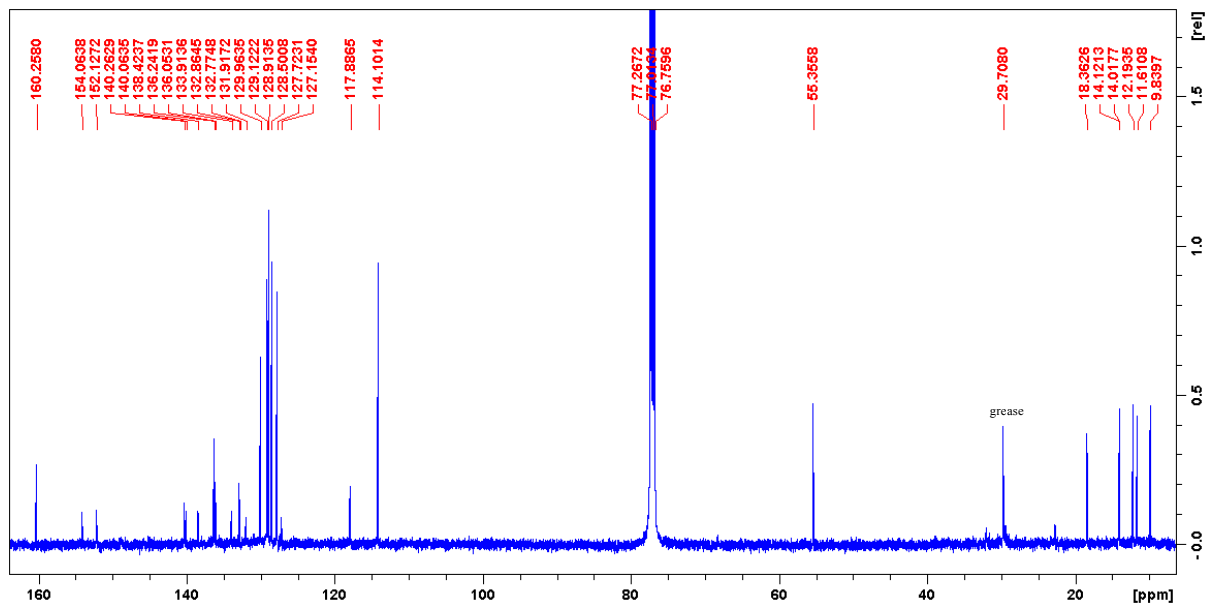
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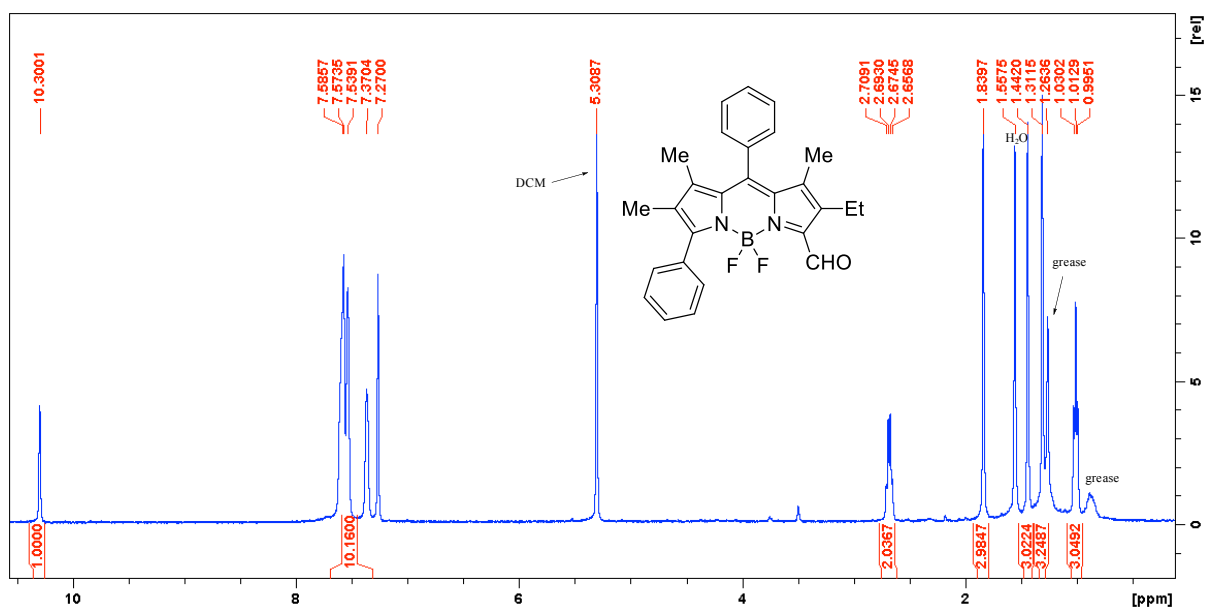
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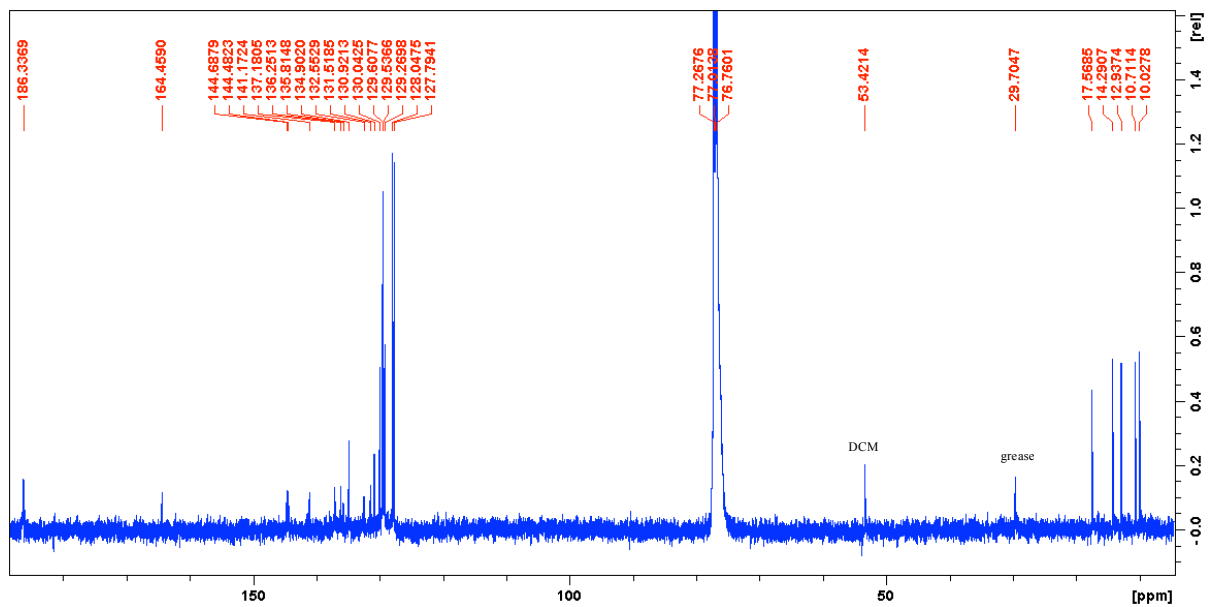
¹³C NMR spectra of BODIPY 16



¹H NMR spectra of BODIPY 17

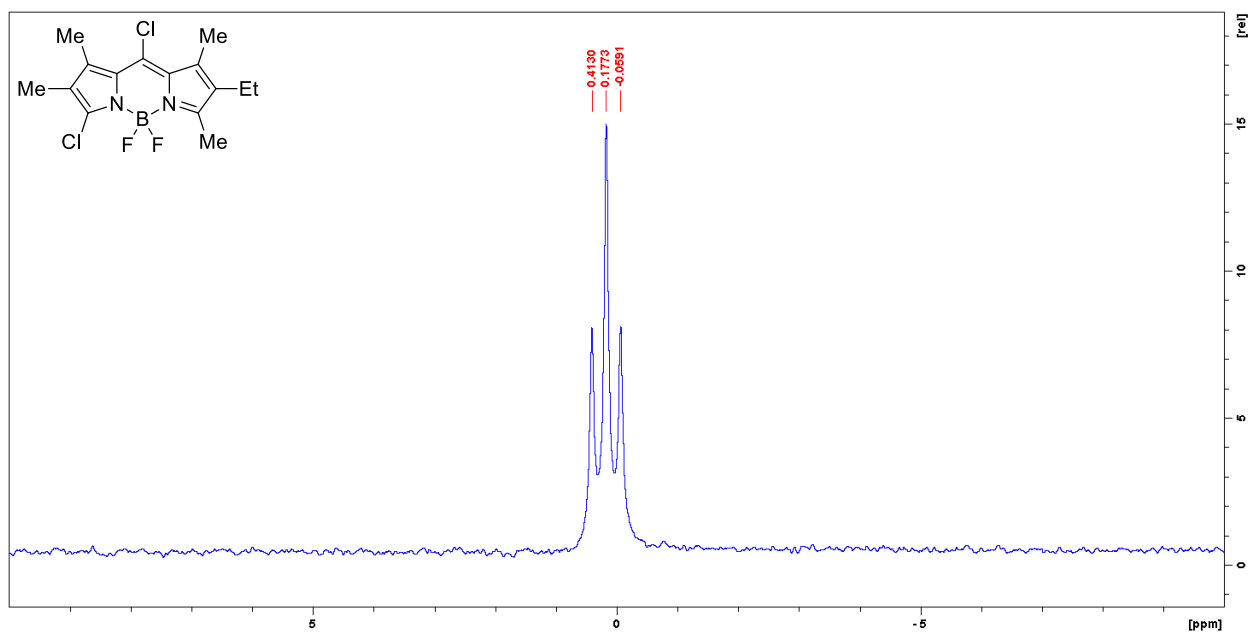


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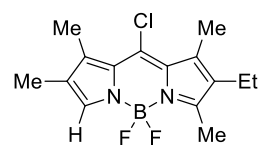


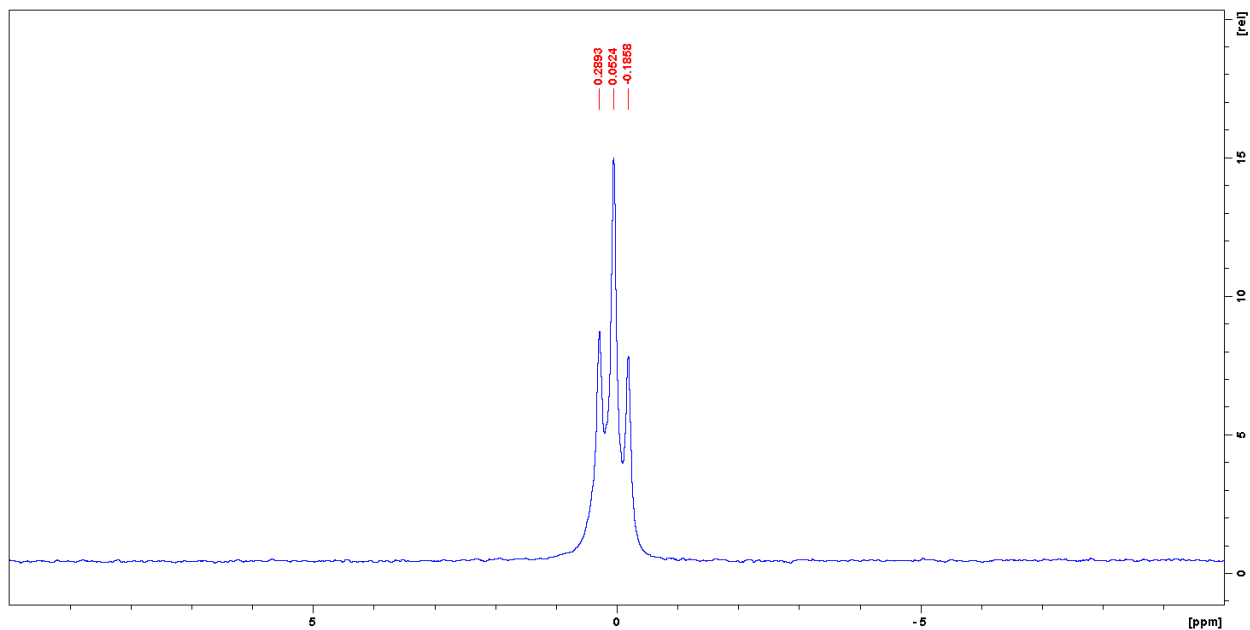
Copies of ^{11}B NMR spectra

^{11}B NMR spectra of BODIPY **1a**

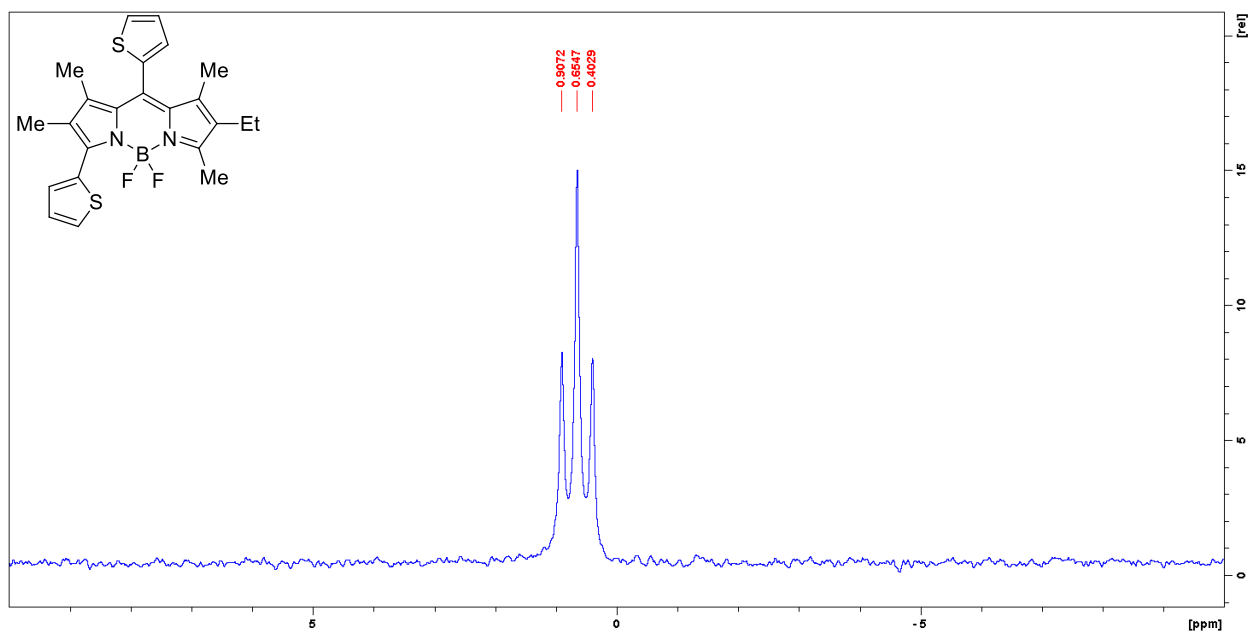


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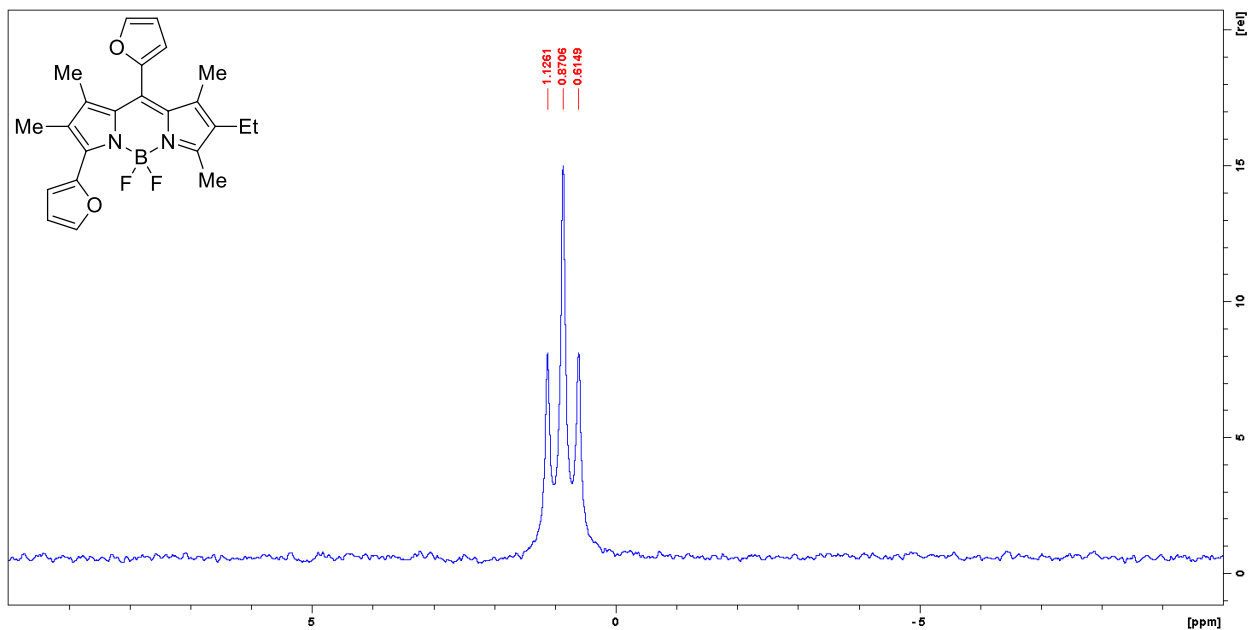




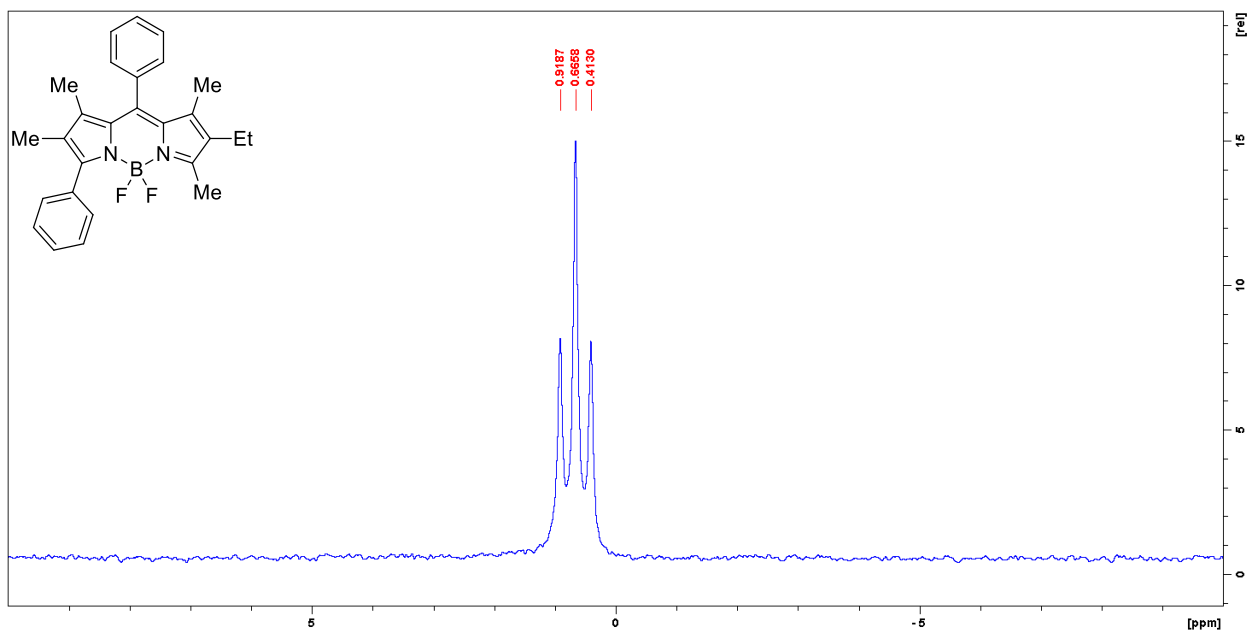
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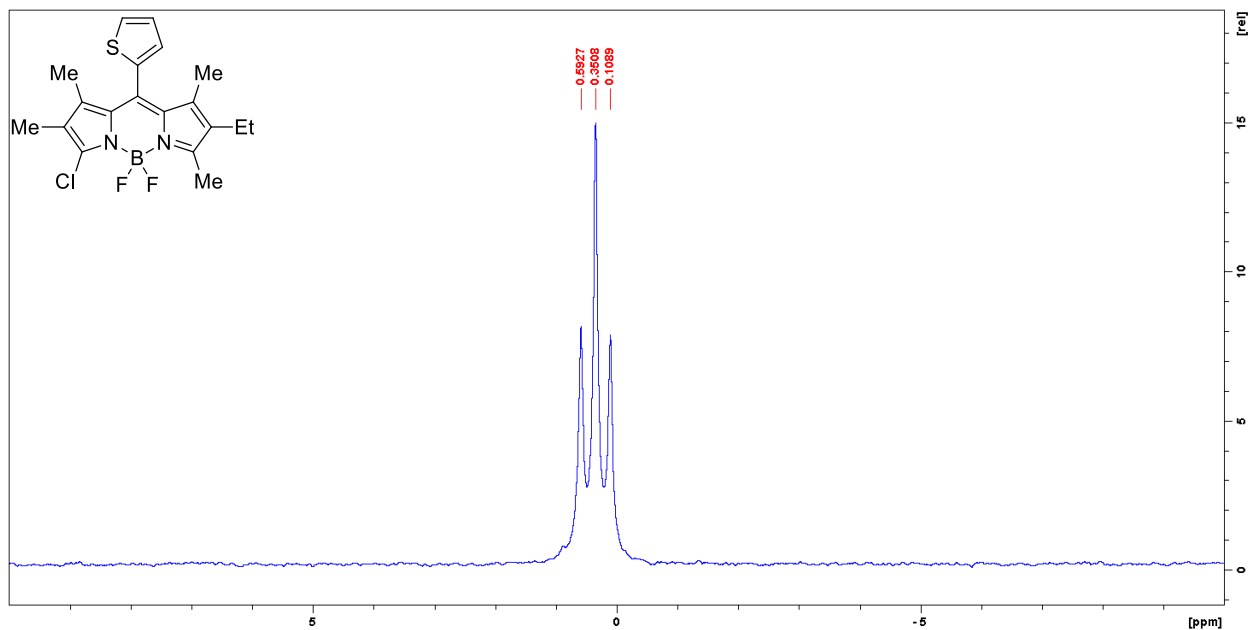
¹¹B NMR spectra of BODIPY **6b**



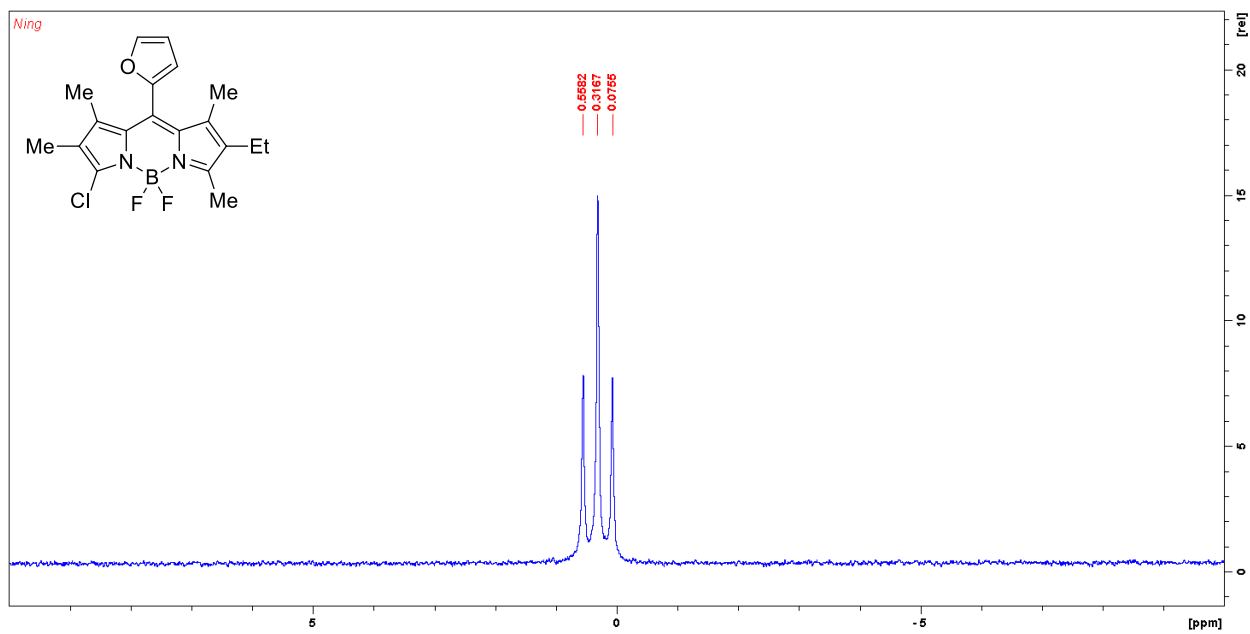
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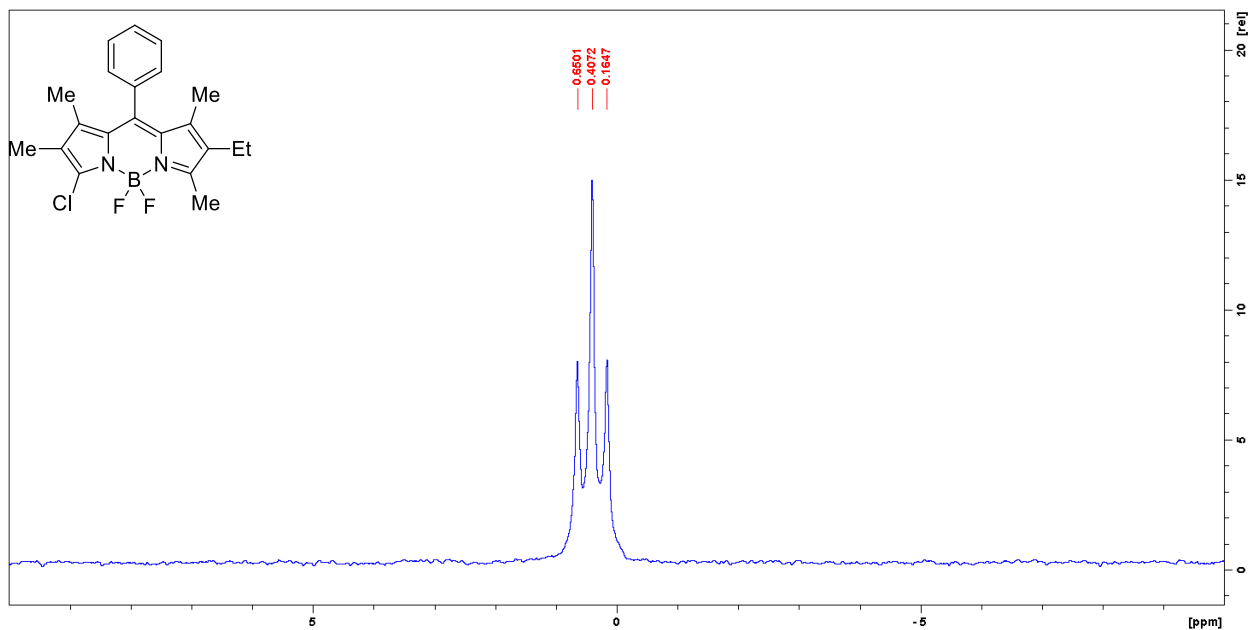
¹¹B NMR spectra of BODIPY 7a



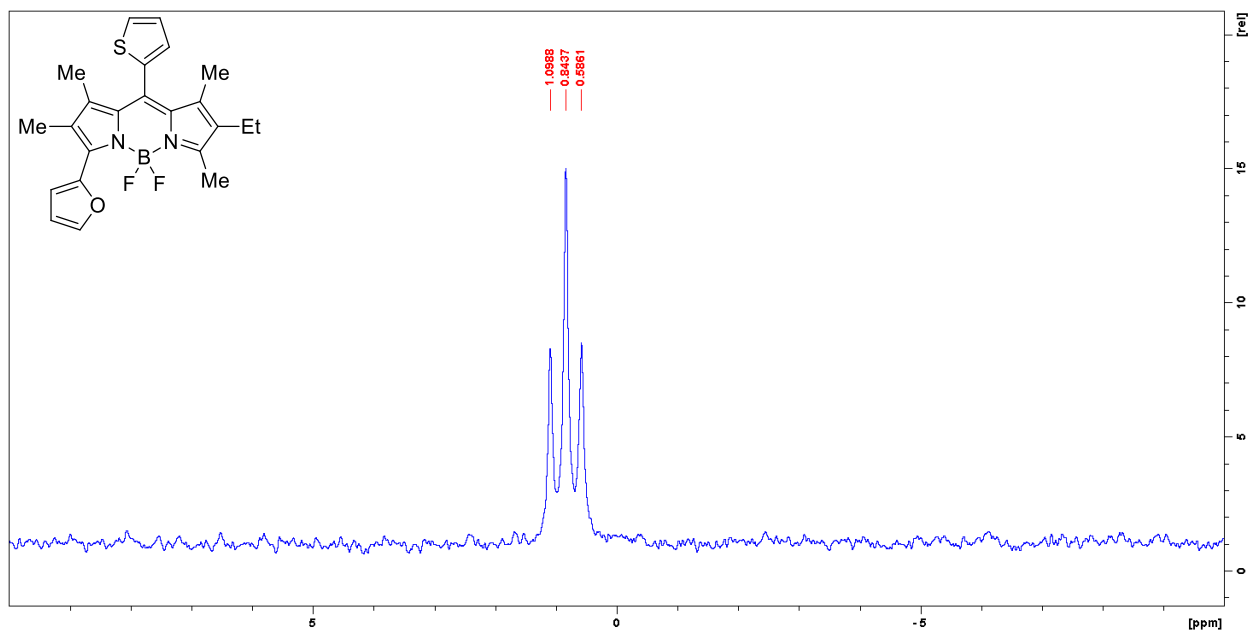
¹¹B NMR spectra of BODIPY **7b**



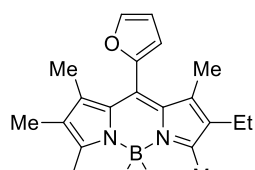
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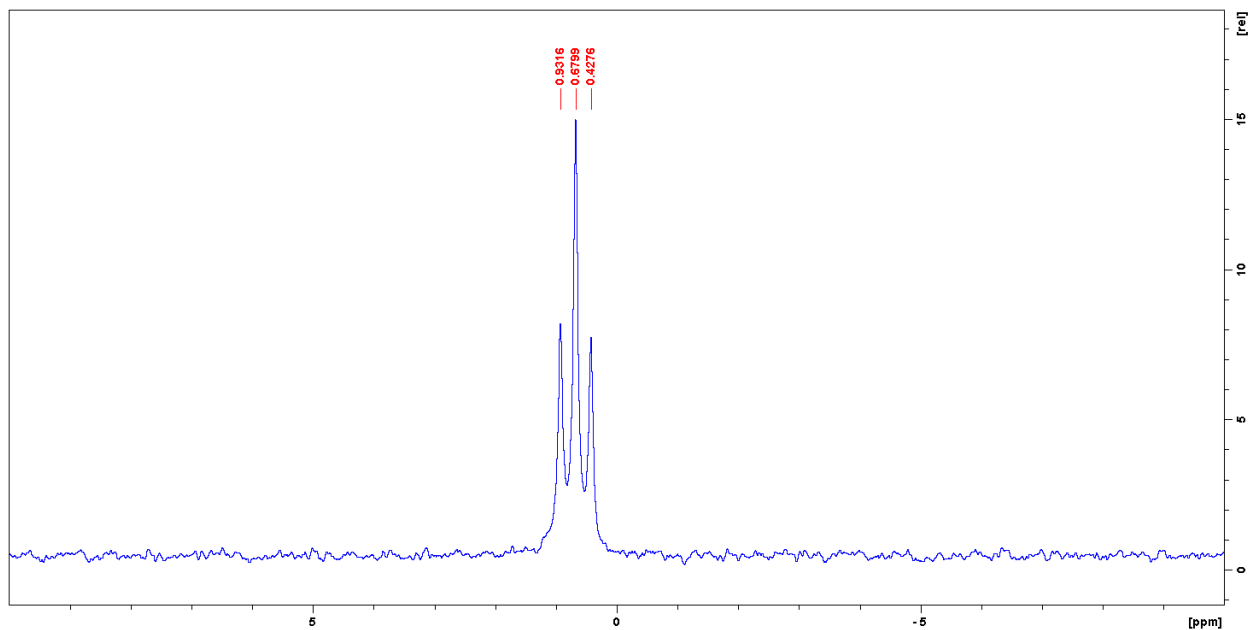


¹¹B NMR spectra of BODIPY 8

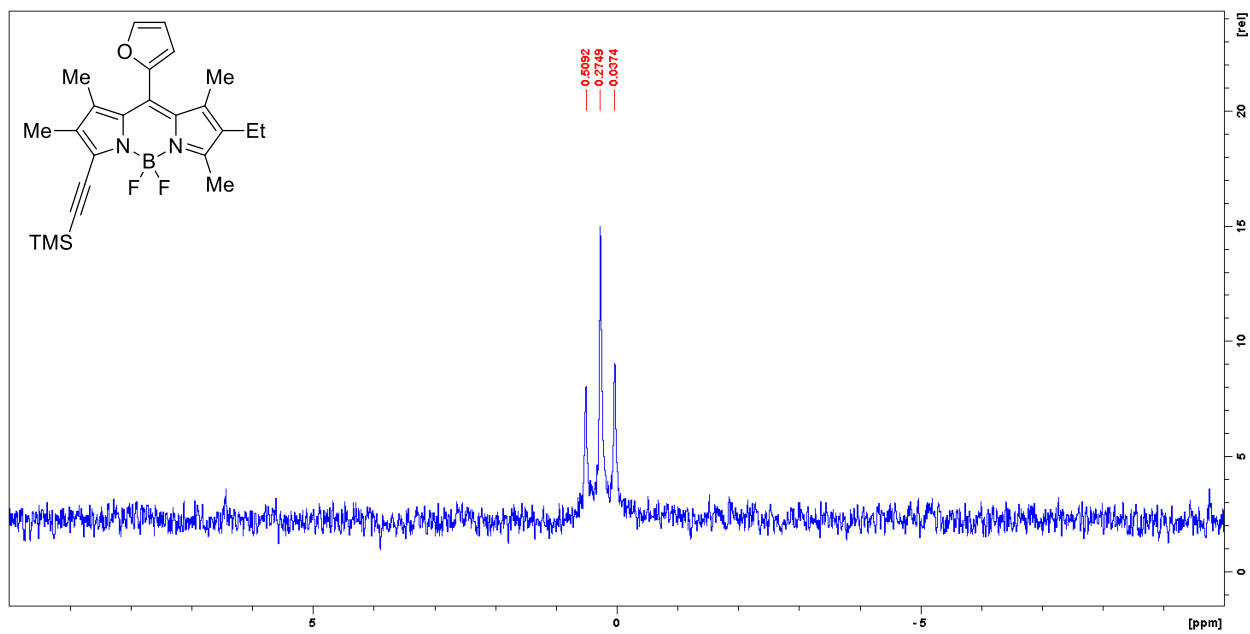


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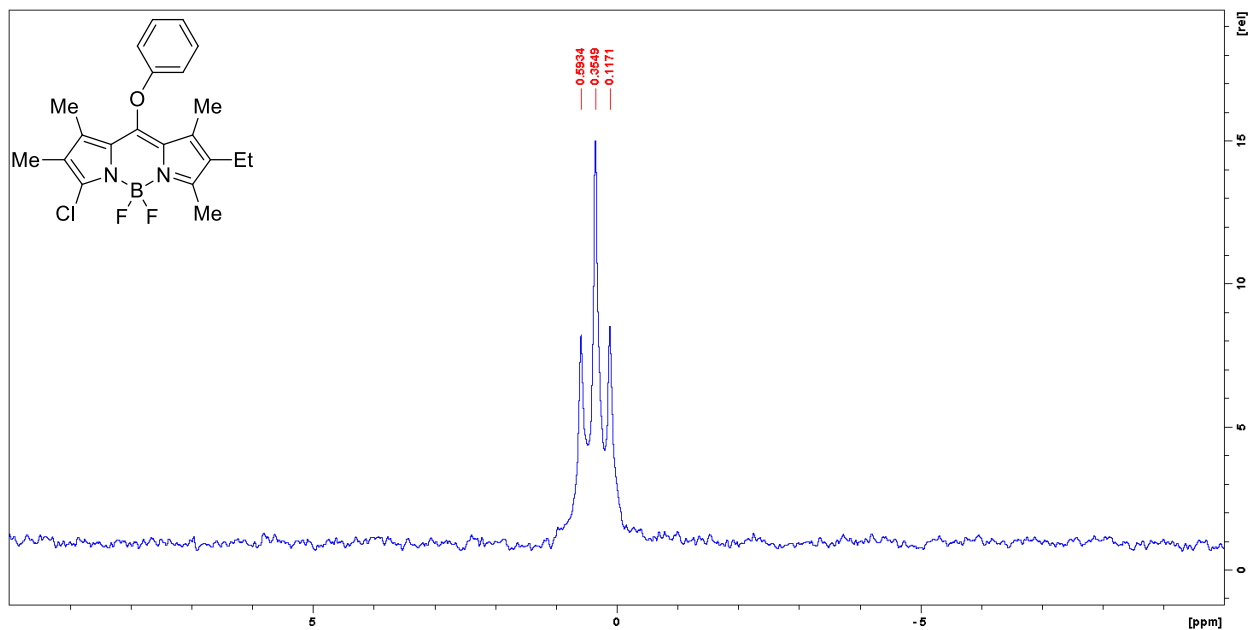




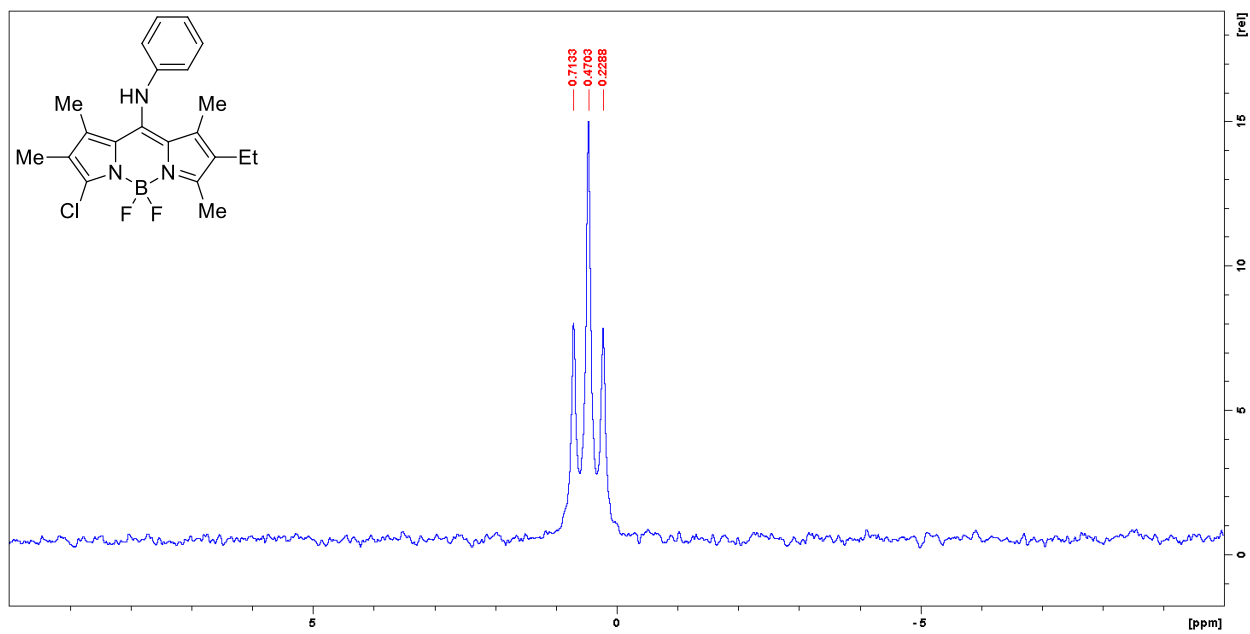
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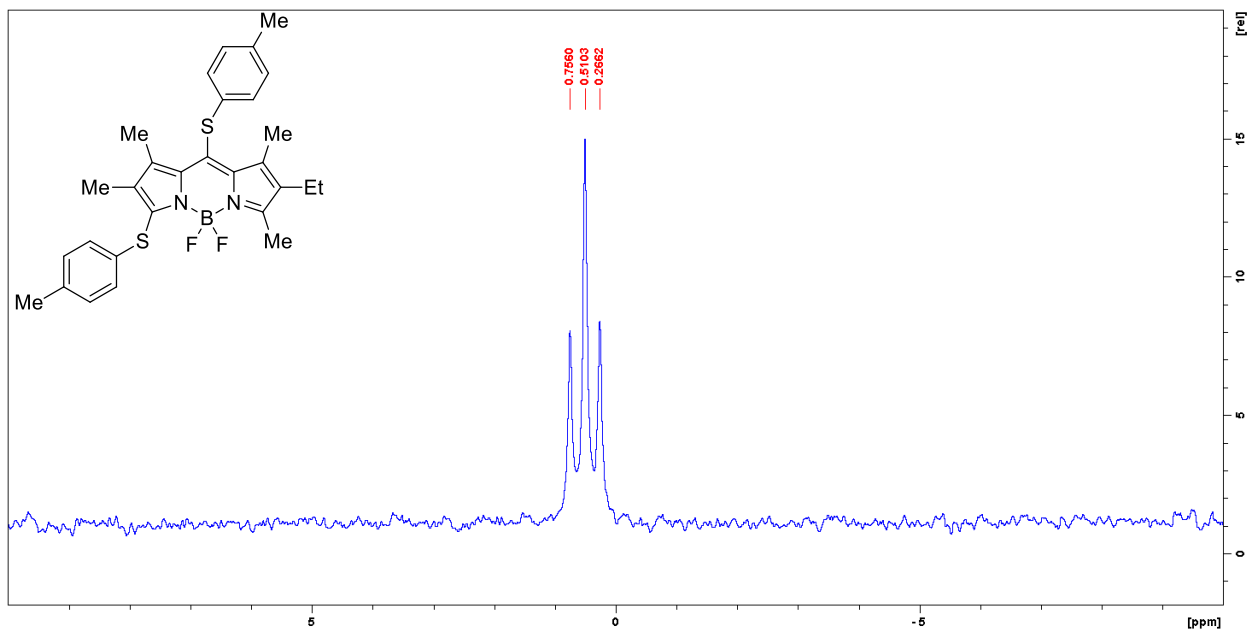
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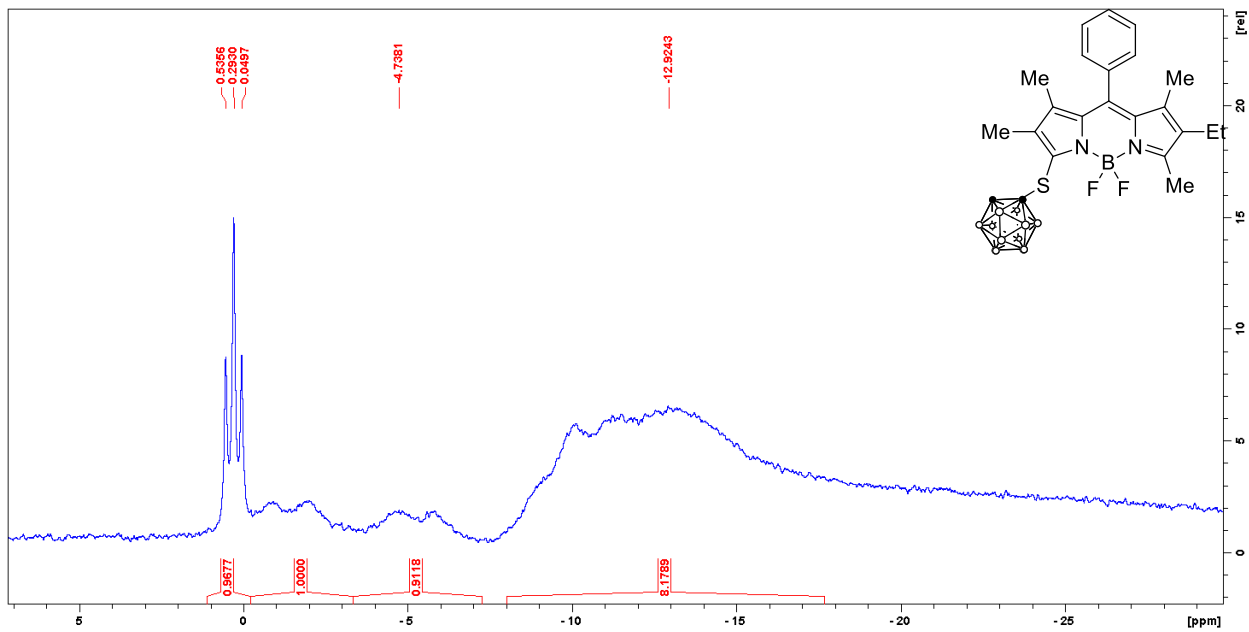
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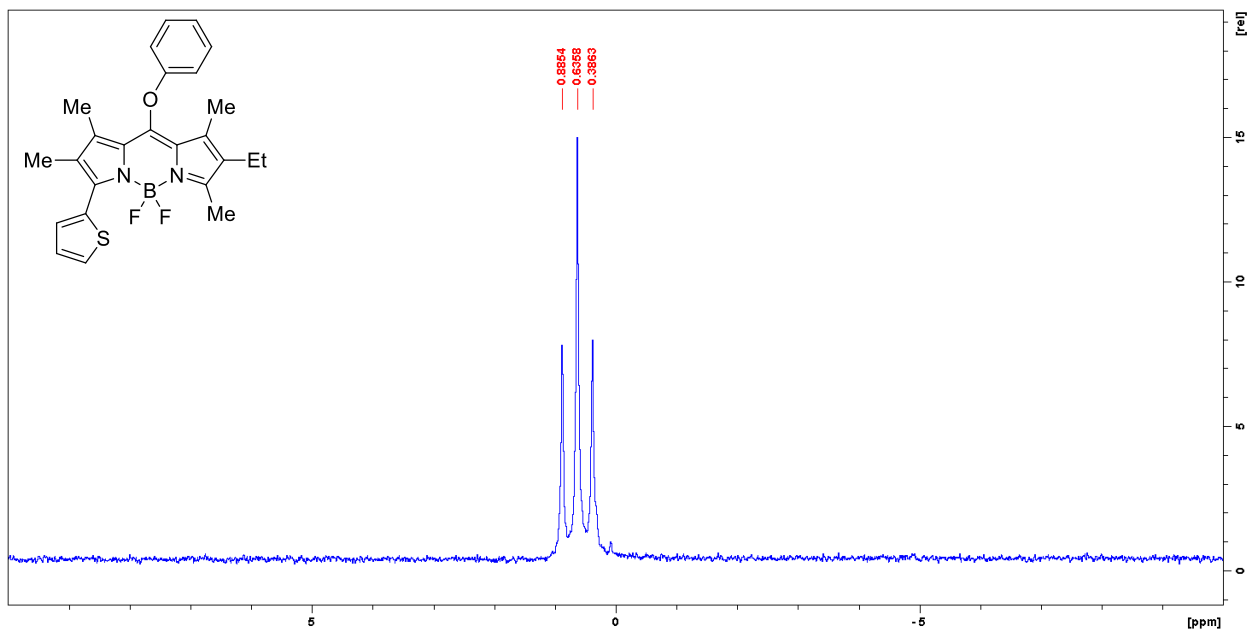
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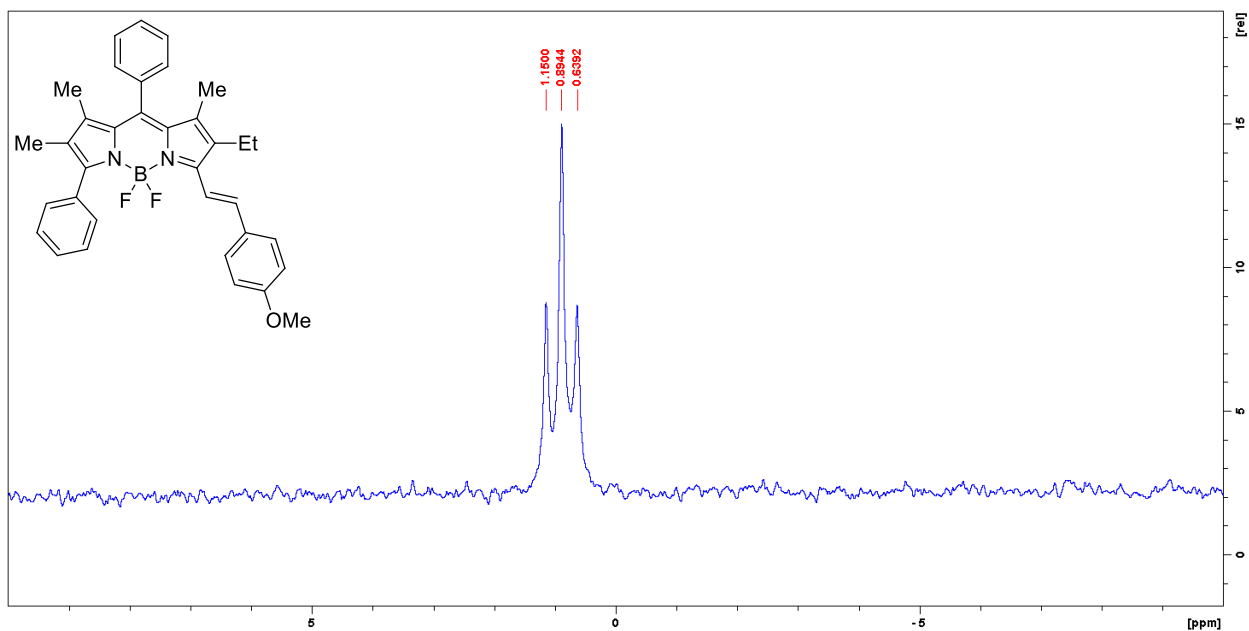
¹¹B NMR spectra of BODIPY 14



¹¹B NMR spectra of BODIPY 15



¹¹B NMR spectra of BODIPY 16



¹¹B NMR spectra of BODIPY 17

