

Colchicine metallocenyl bioconjugates showing high antiproliferative activities against cancer cell lines

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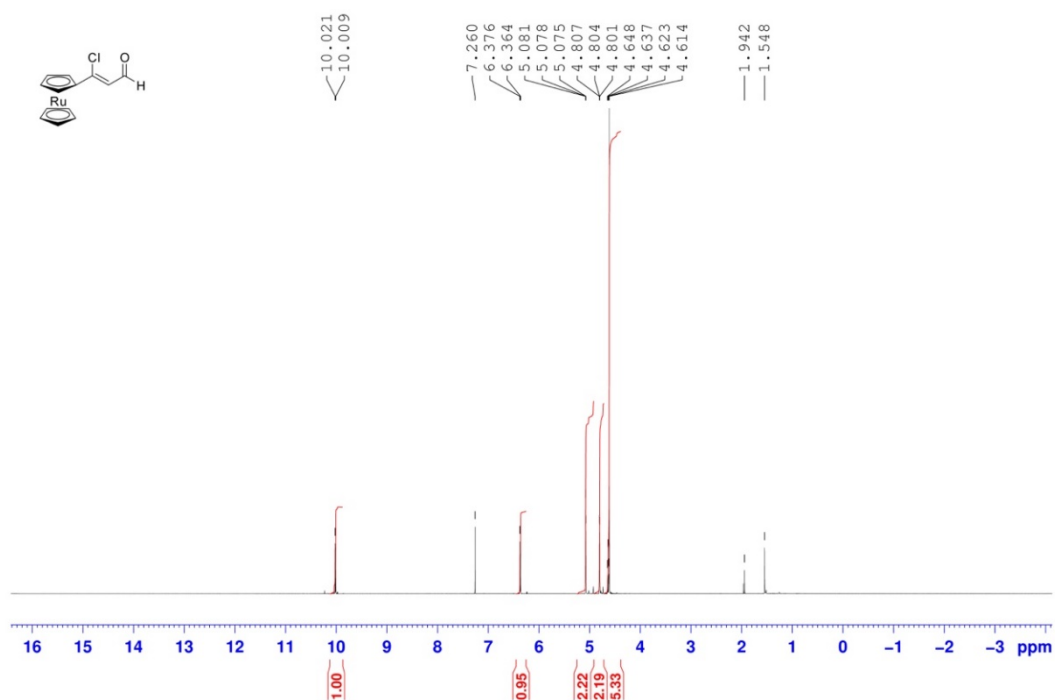
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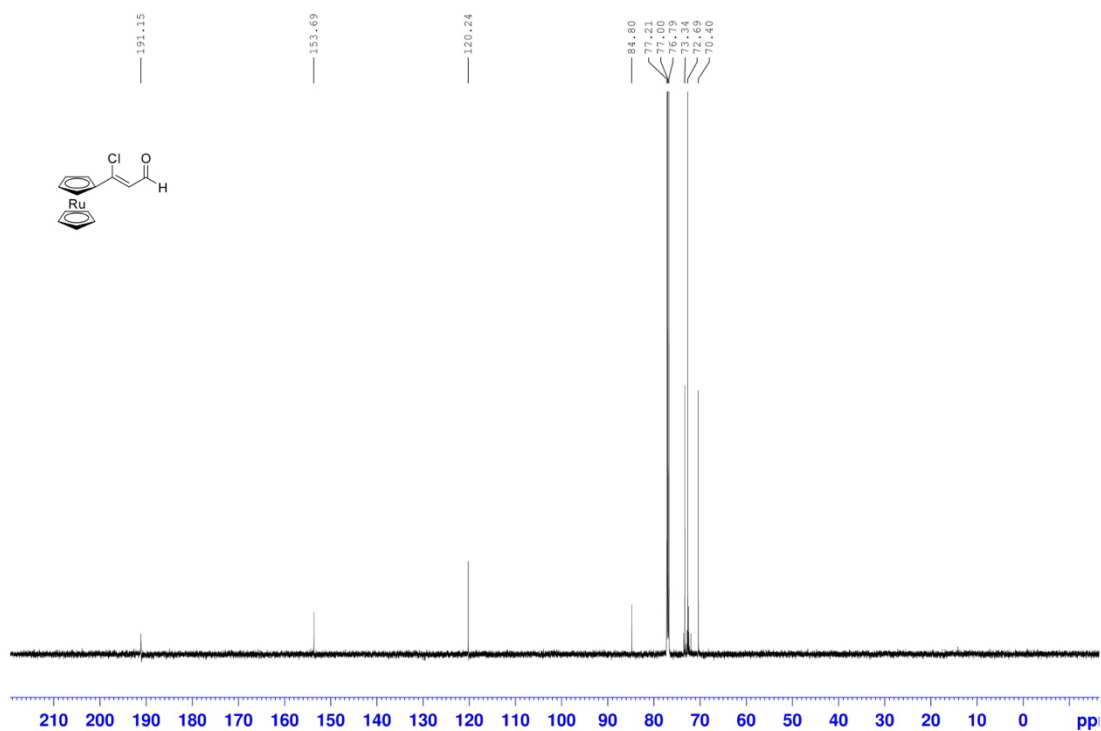
Contents:

NMR spectra S2

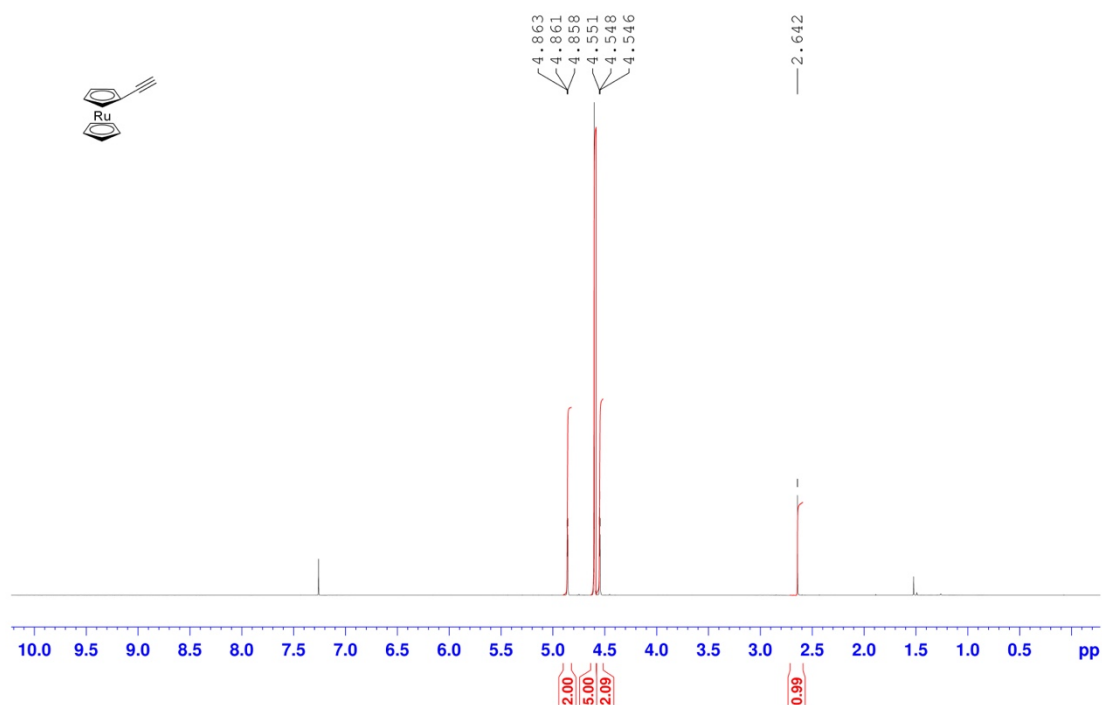
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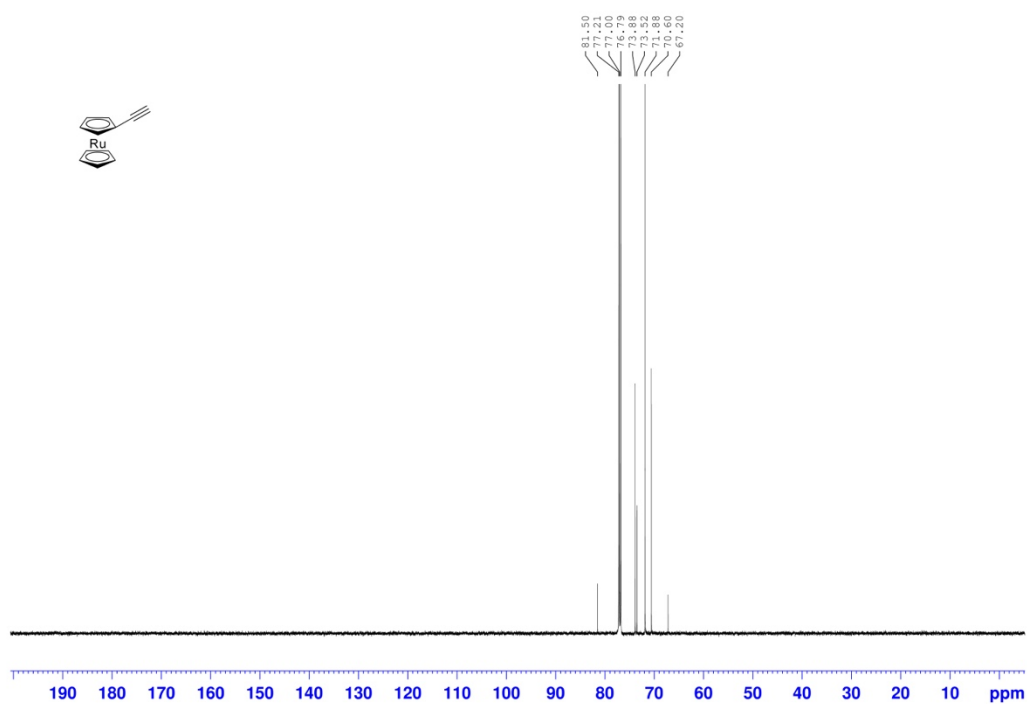
$^{13}\text{C}\{^1\text{H}\}$ NMR spectra of **11**



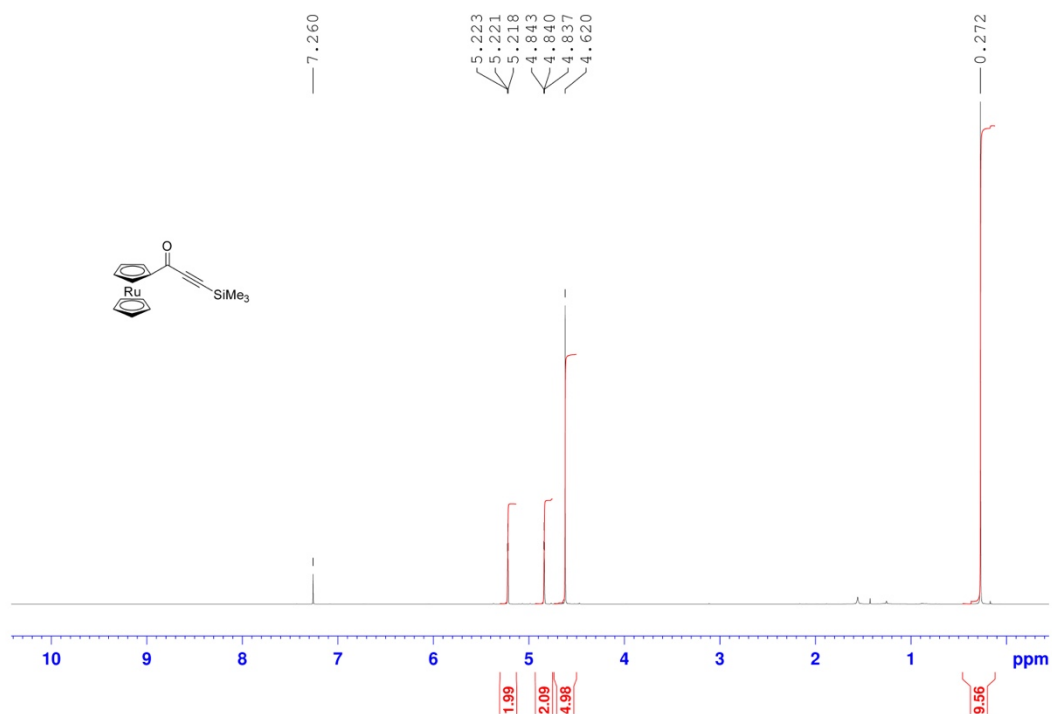
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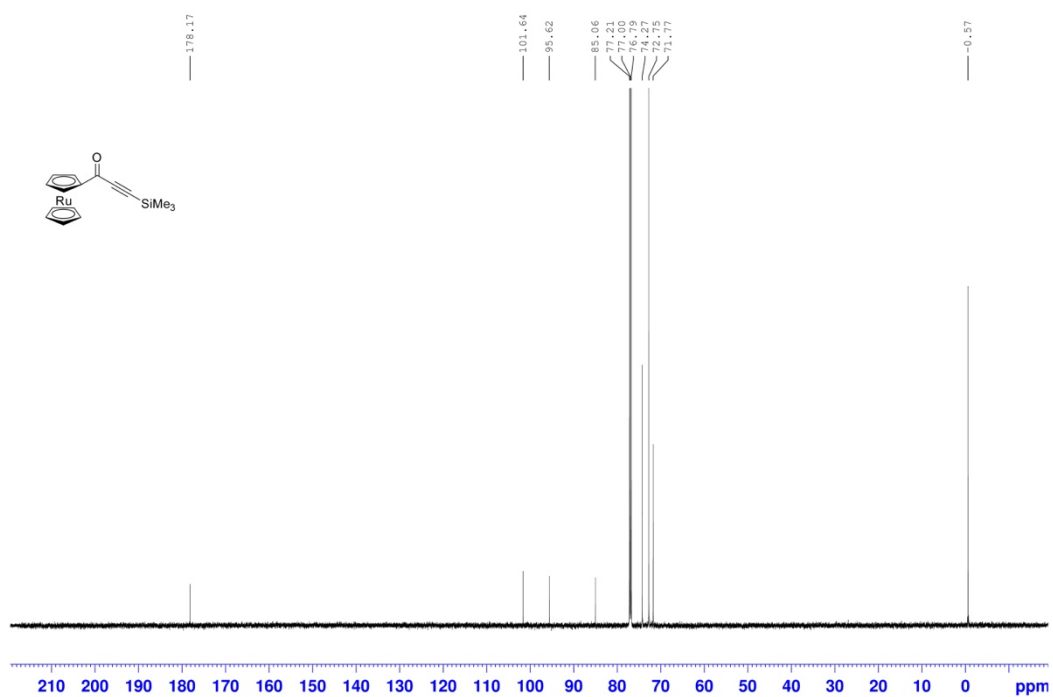
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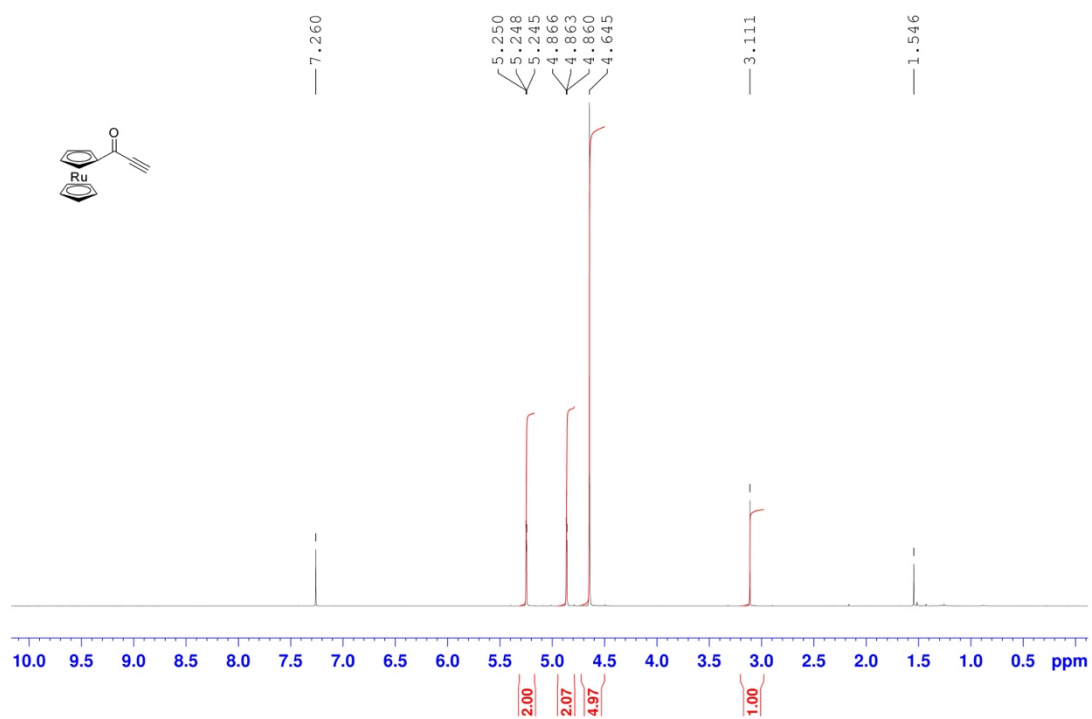
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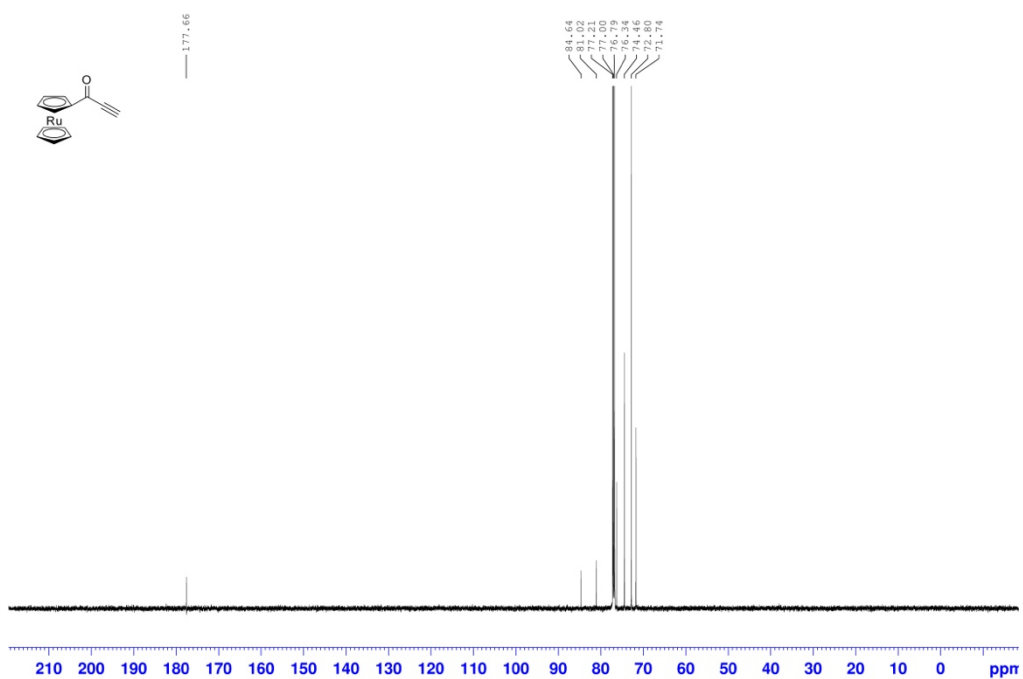
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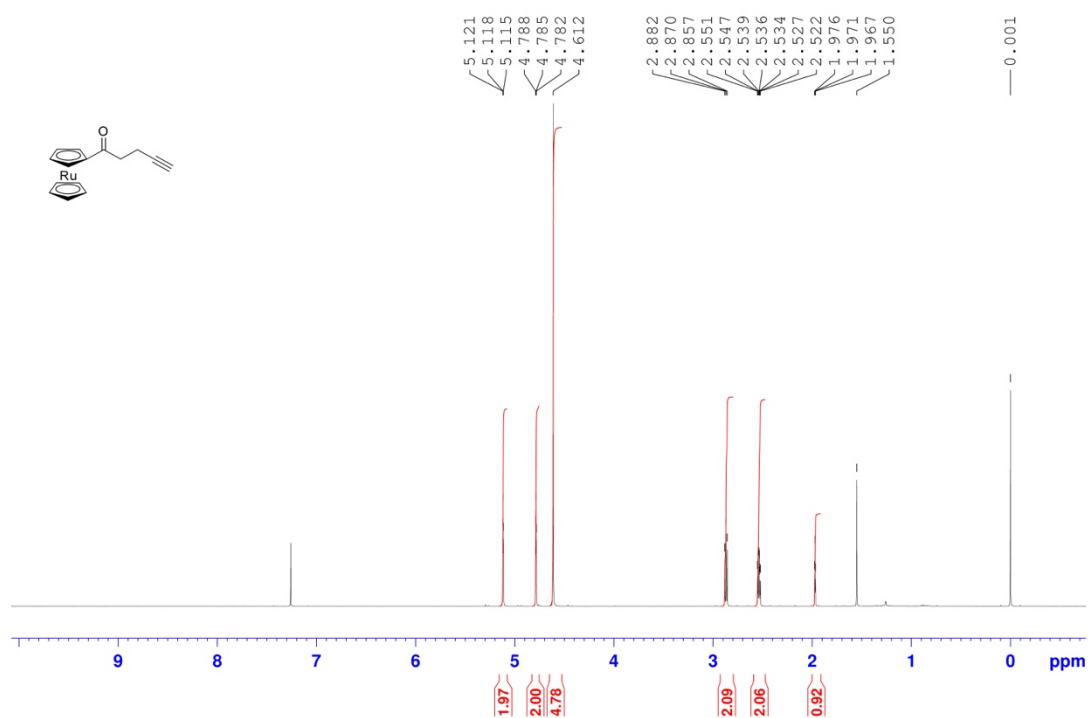
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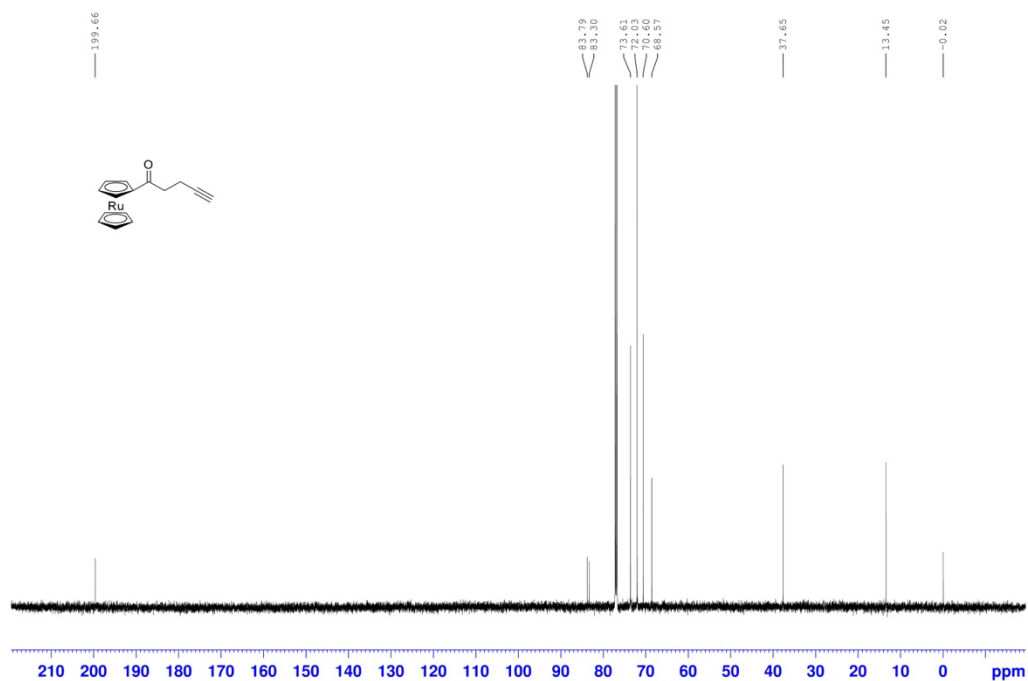
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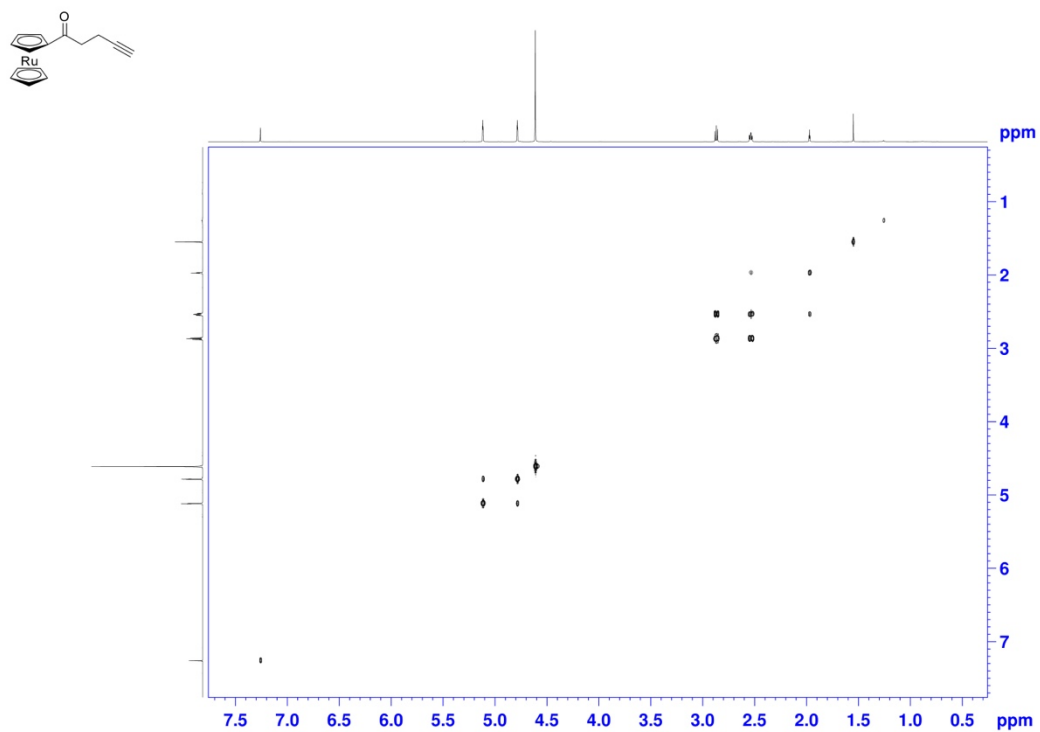
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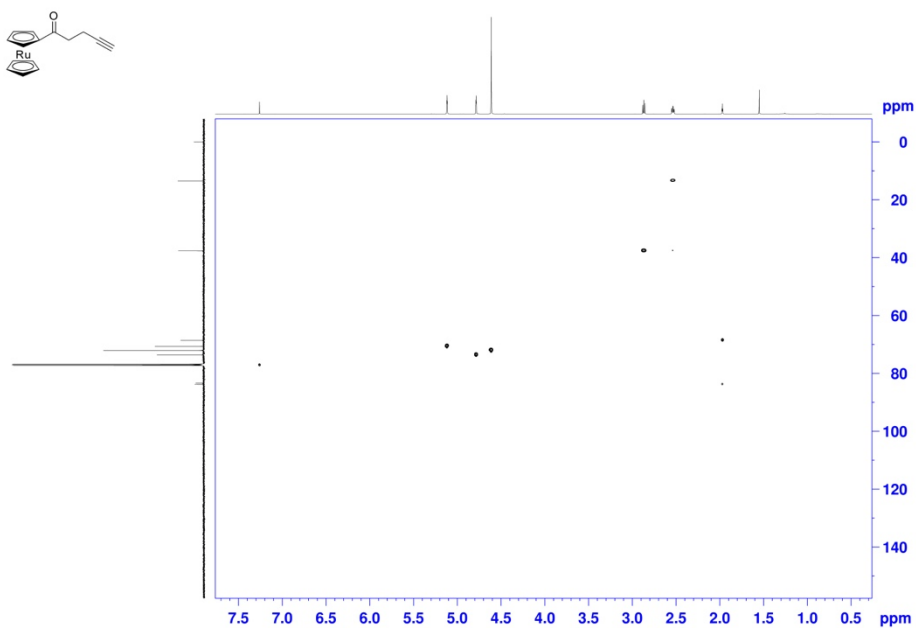
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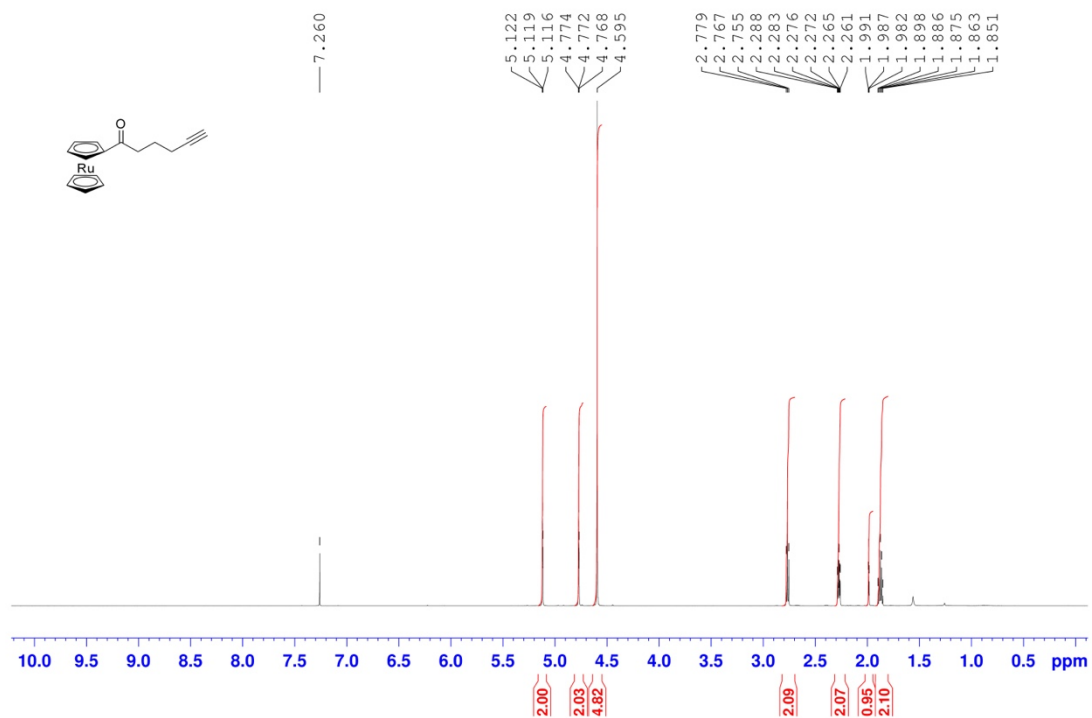
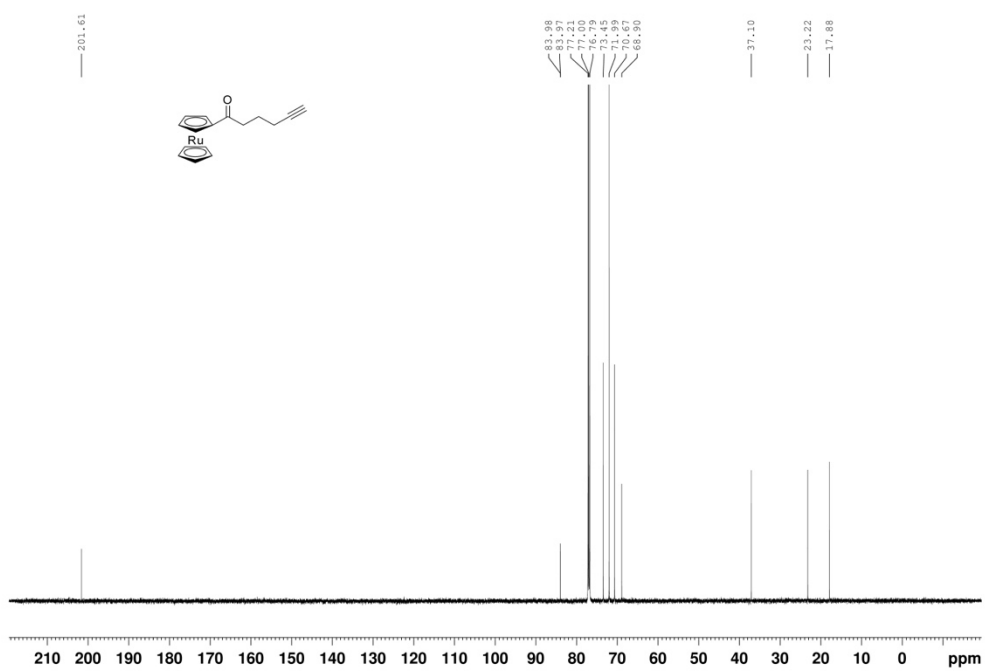


^1H - ^1H COSY spectra of **21**

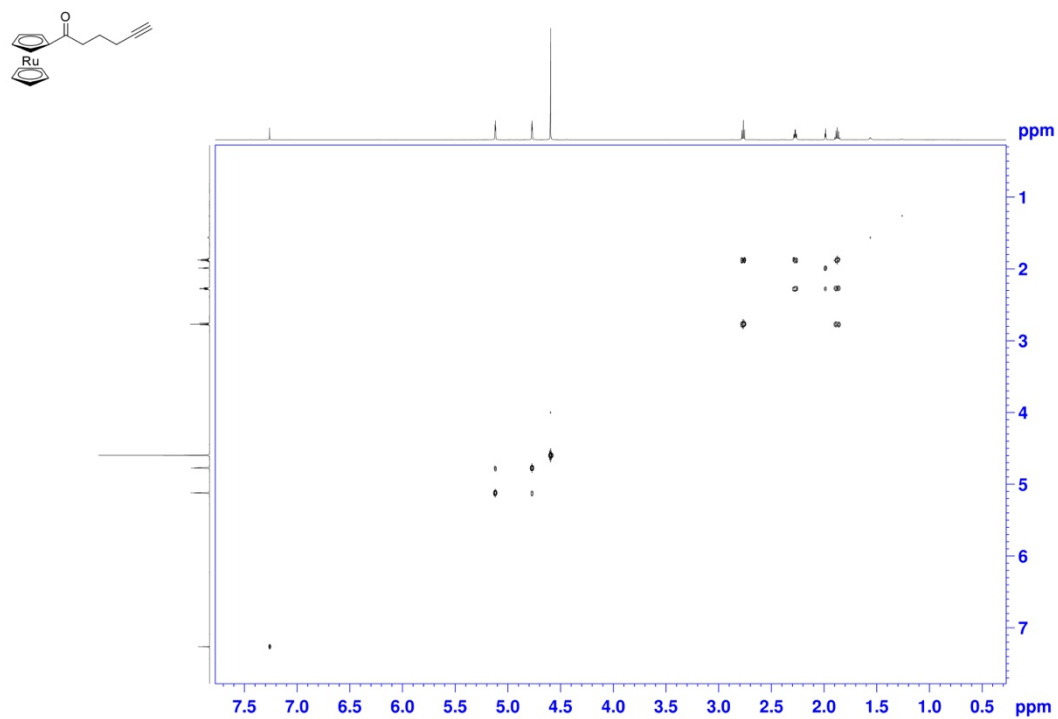


^1H - ^{13}C HSQC spectra of **21**

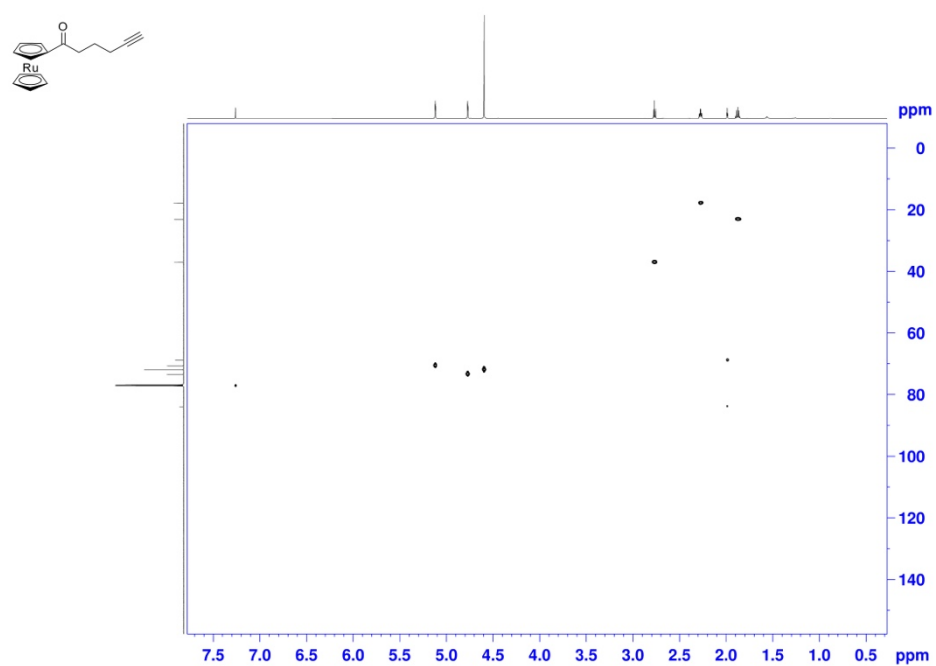


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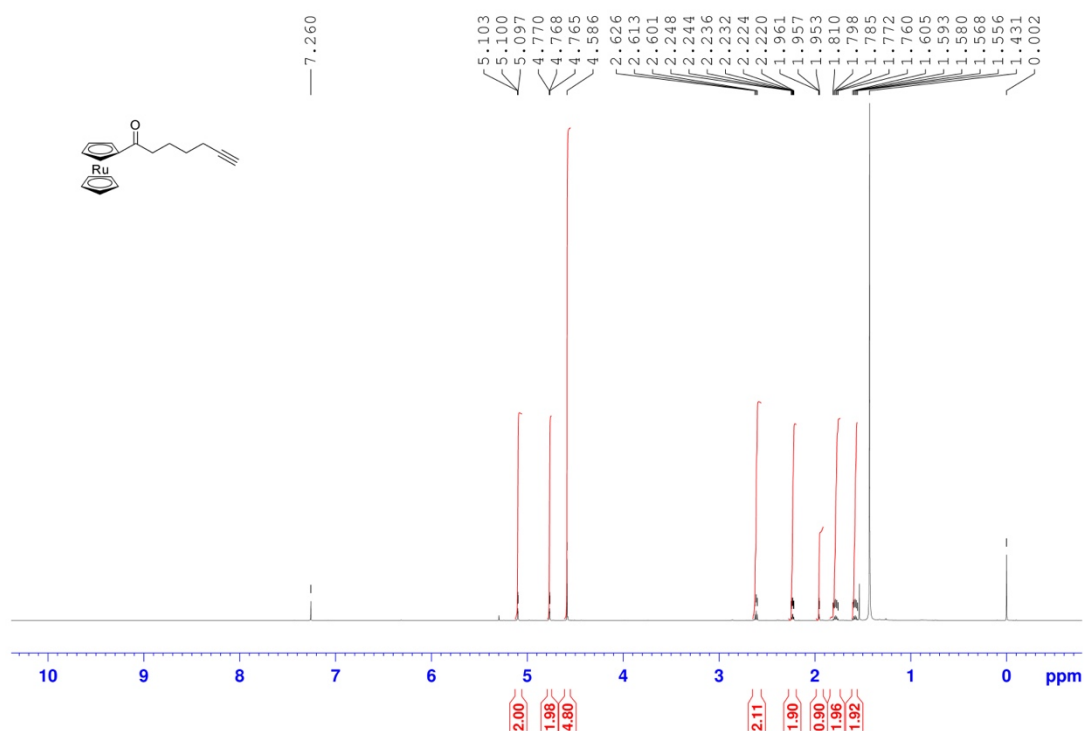
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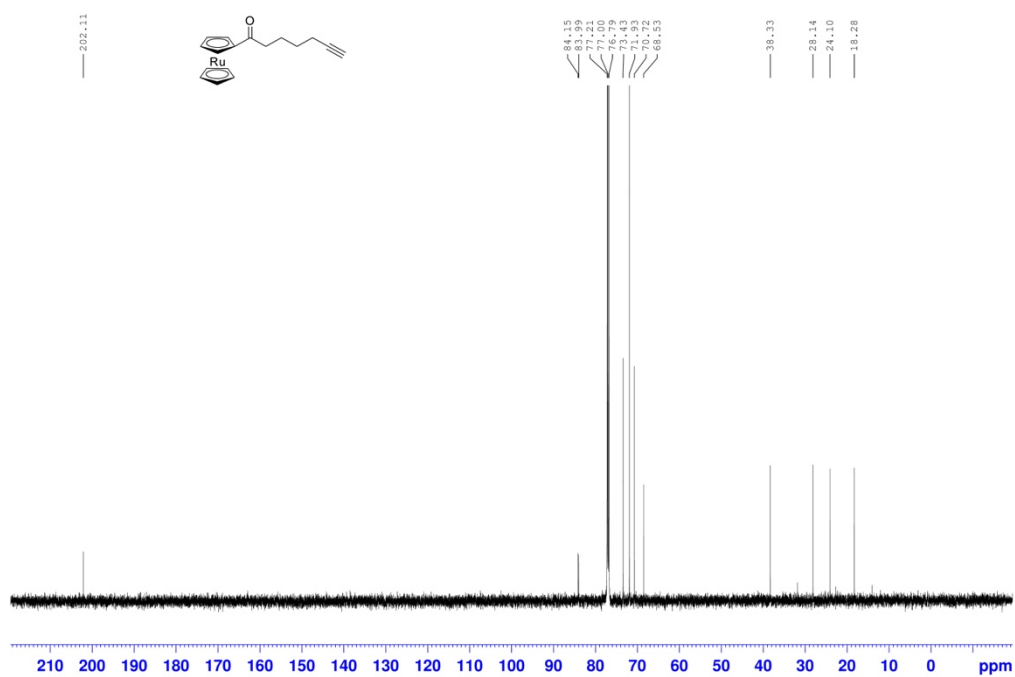
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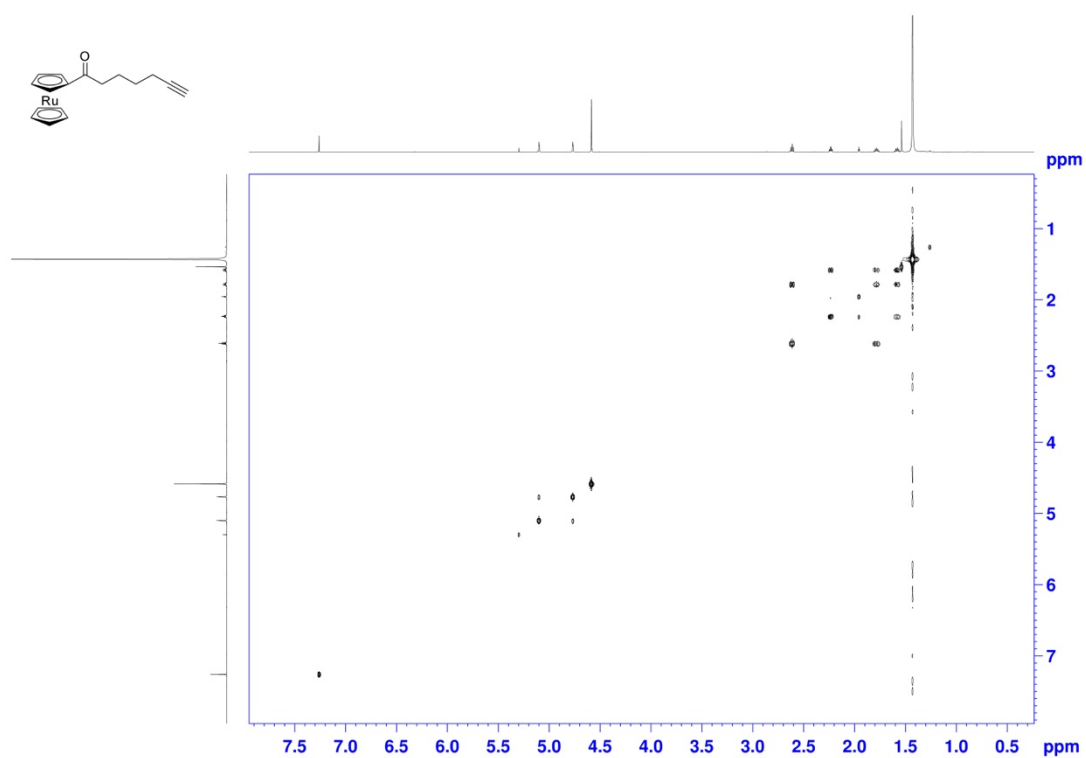
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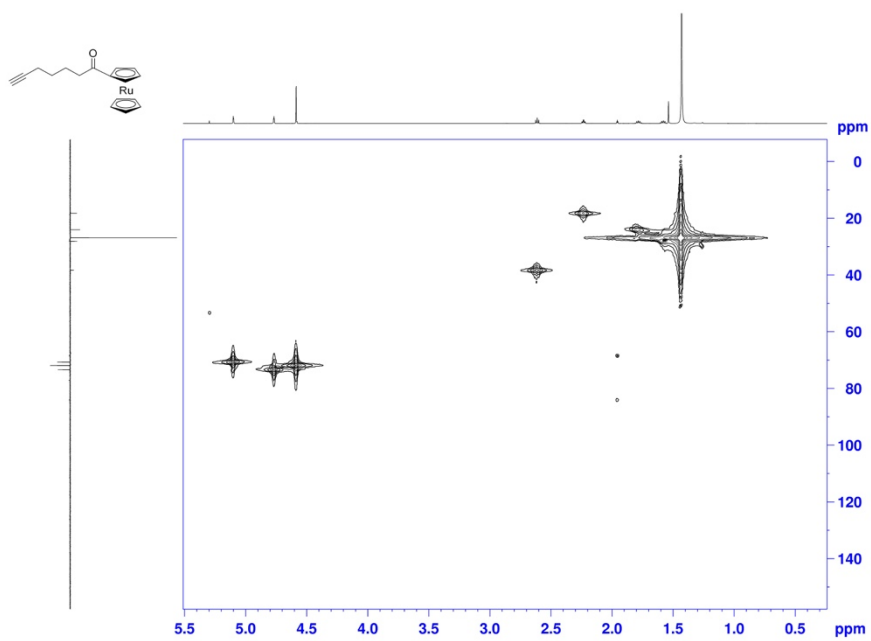
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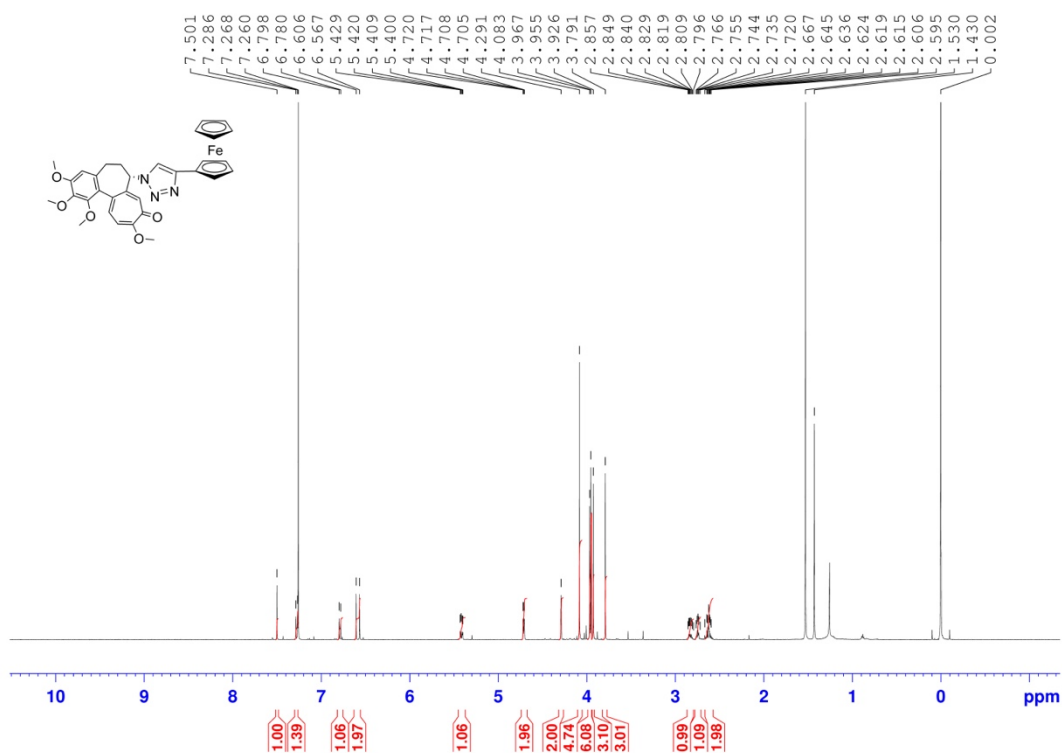
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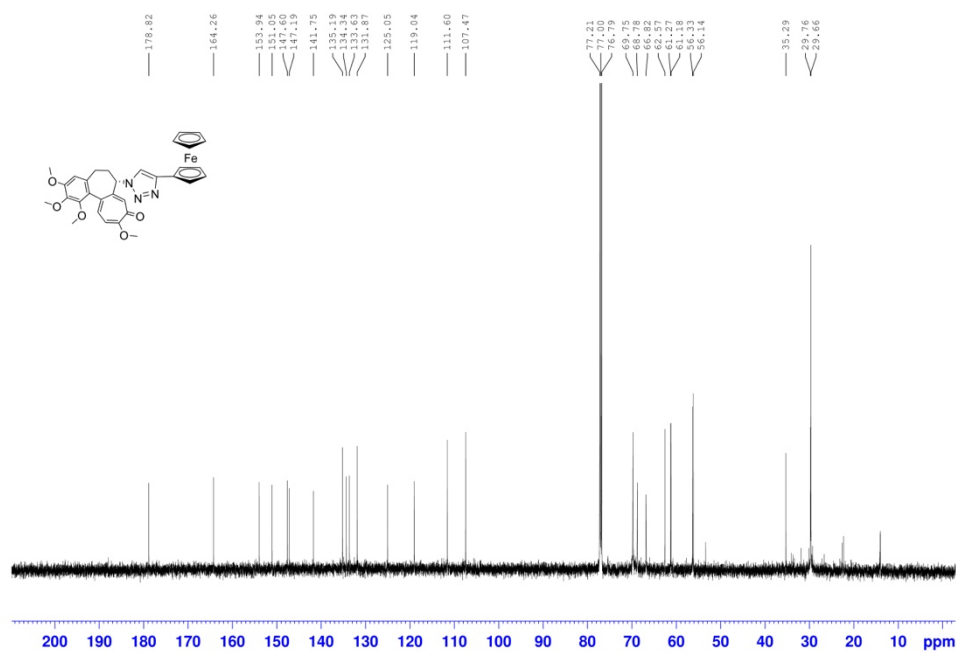
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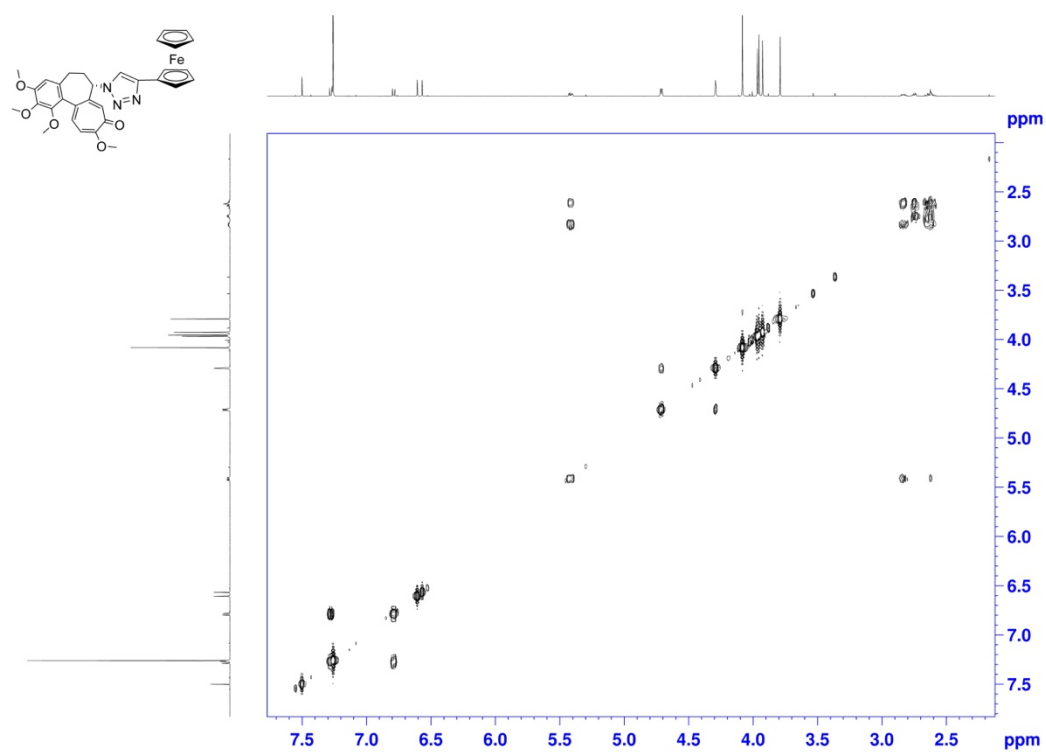
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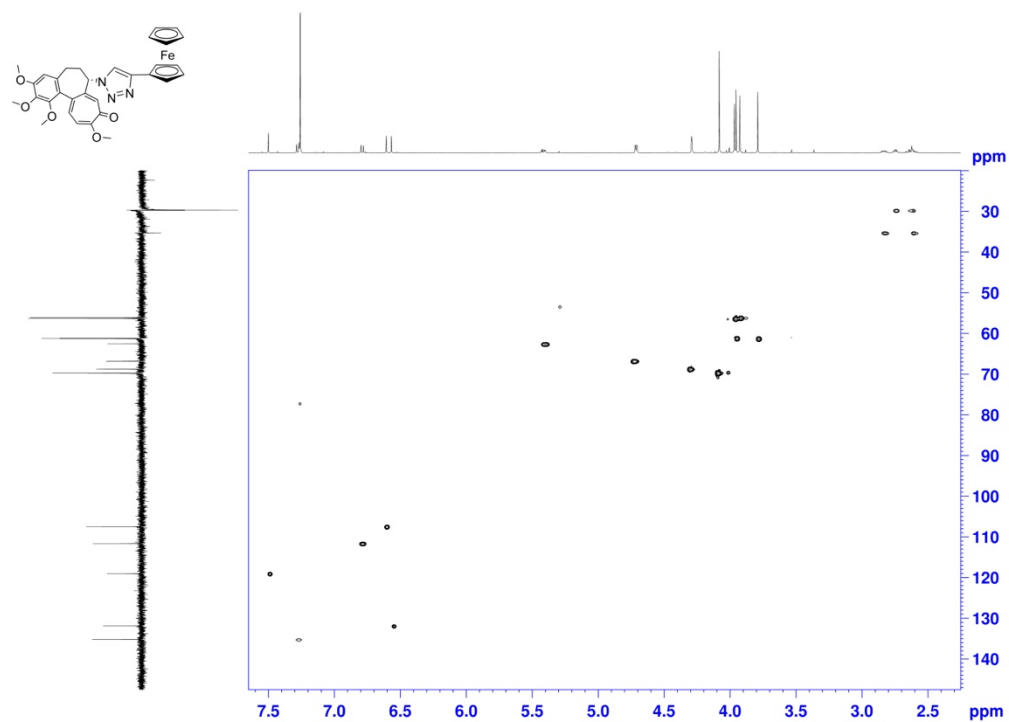
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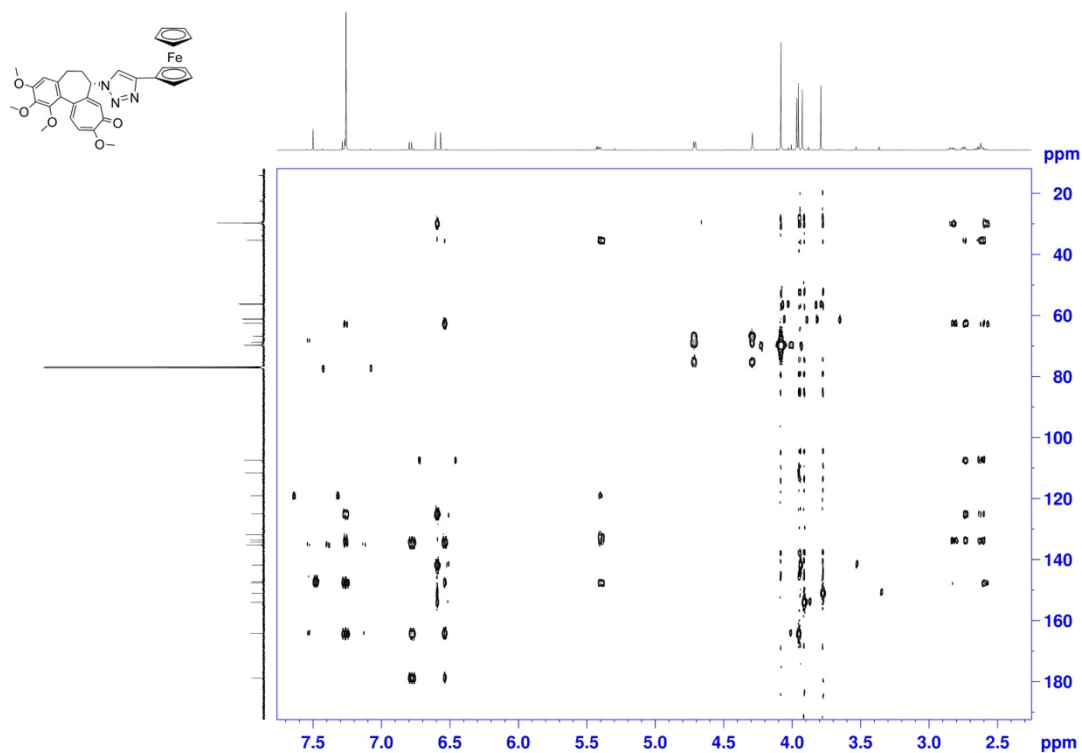
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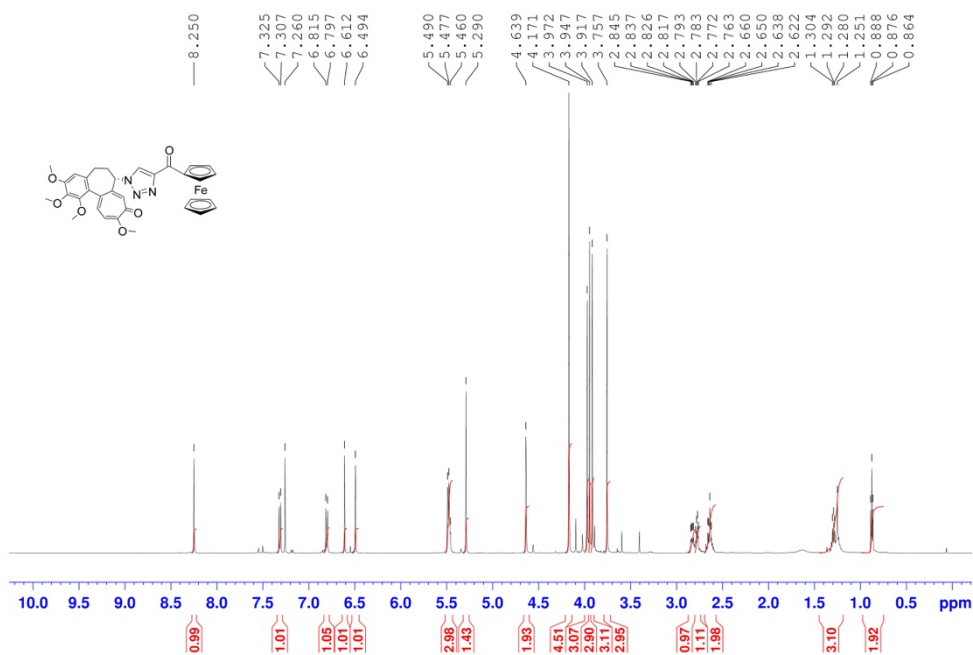
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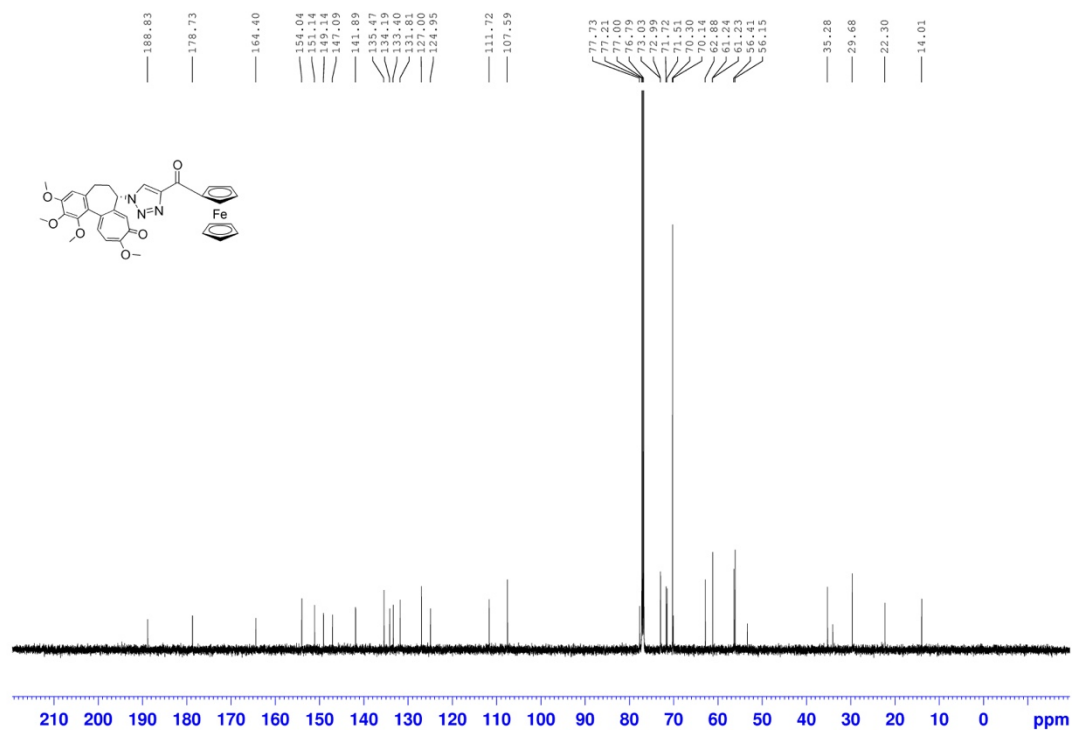
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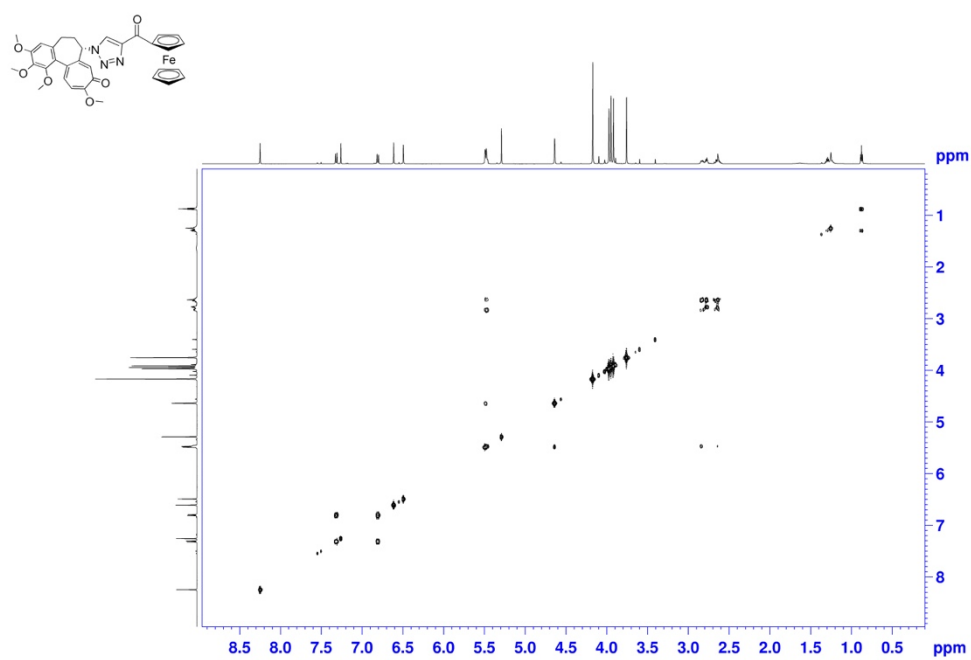
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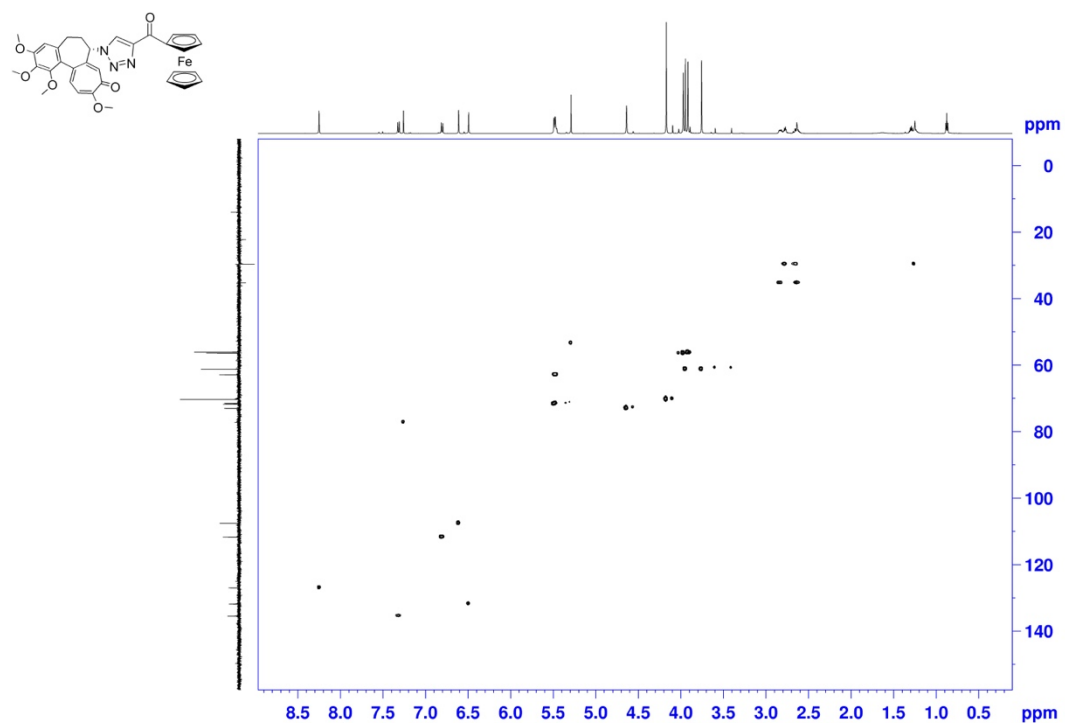
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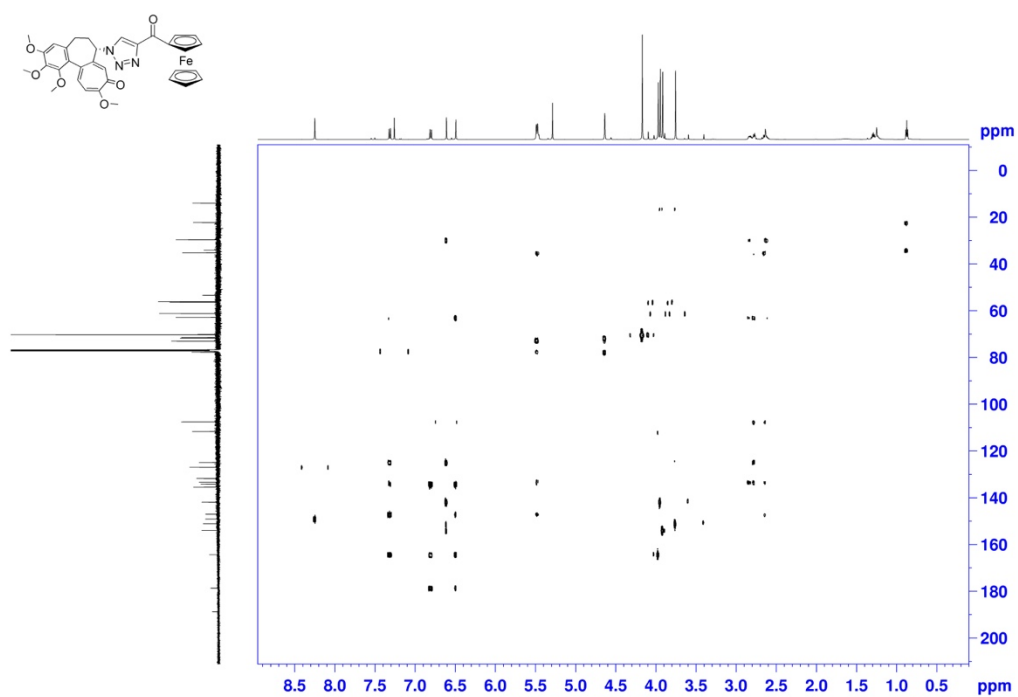
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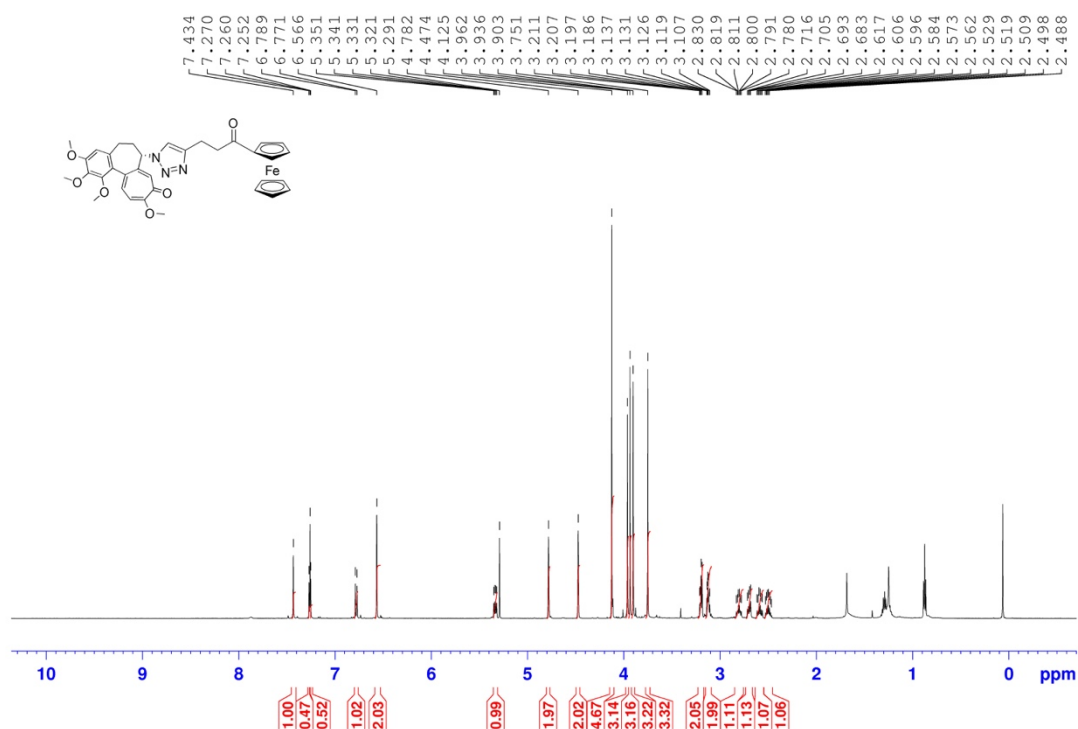
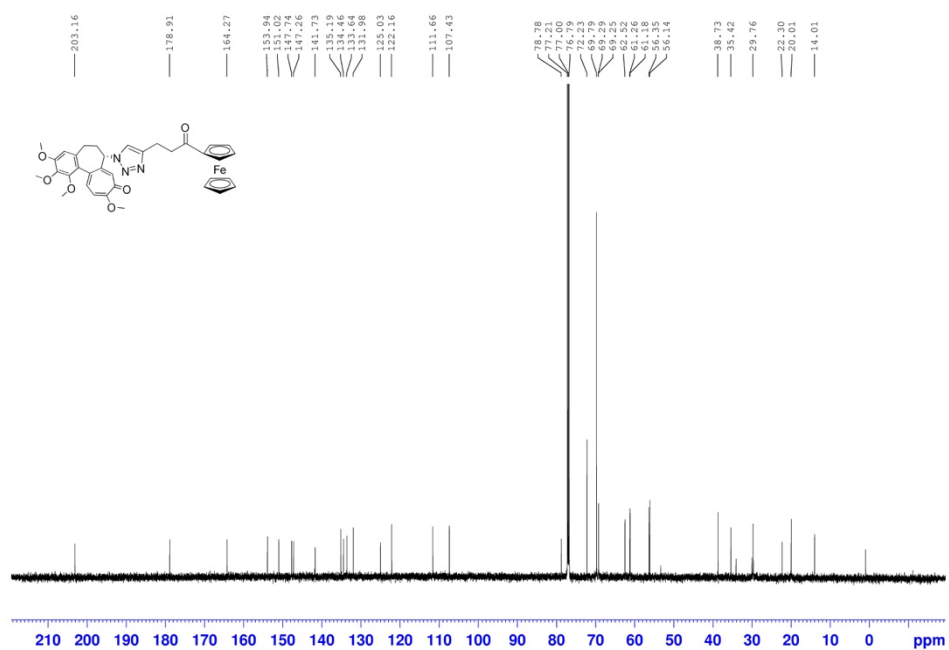


^1H - ^{13}C HSQC spectra of **Fc2**

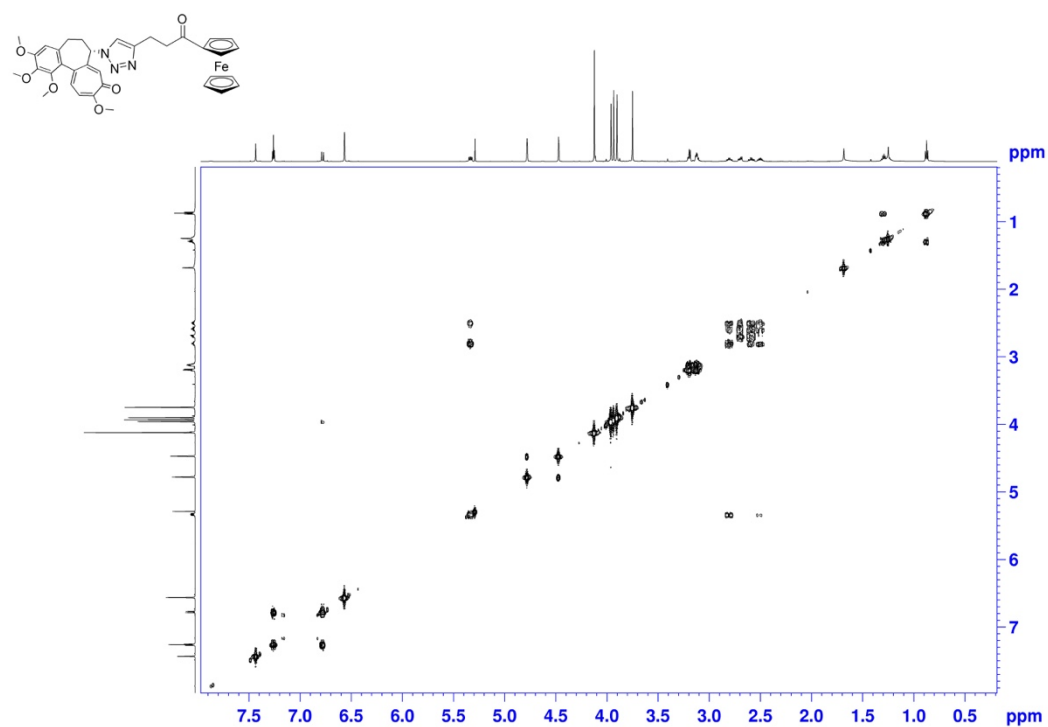


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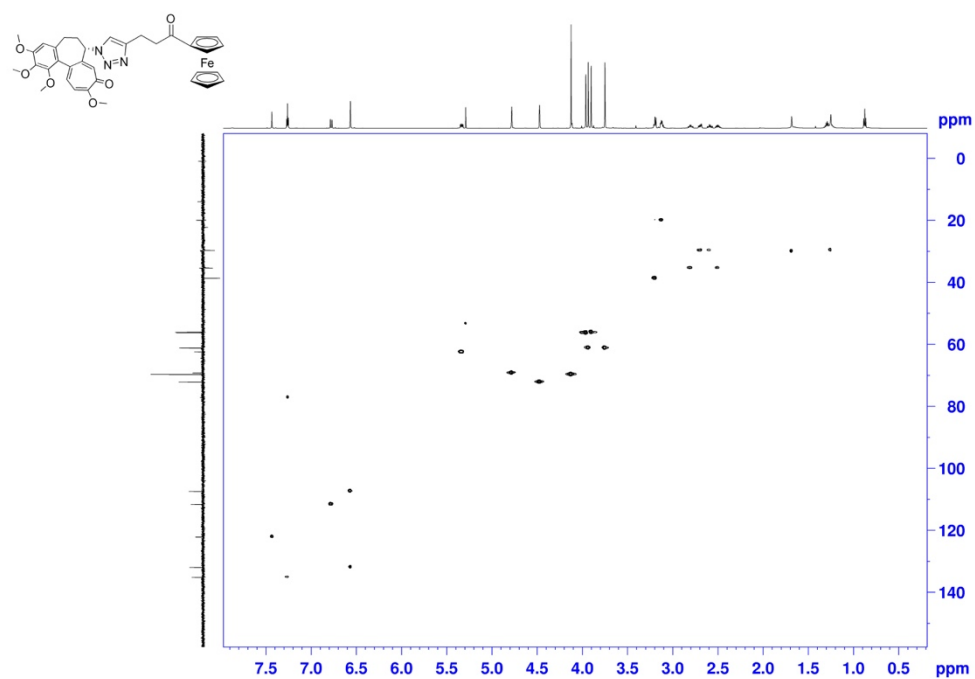


¹H NMR spectra of **Fc3** $^{13}\text{C}\{^1\text{H}\}$ NMR spectra of **Fc3**

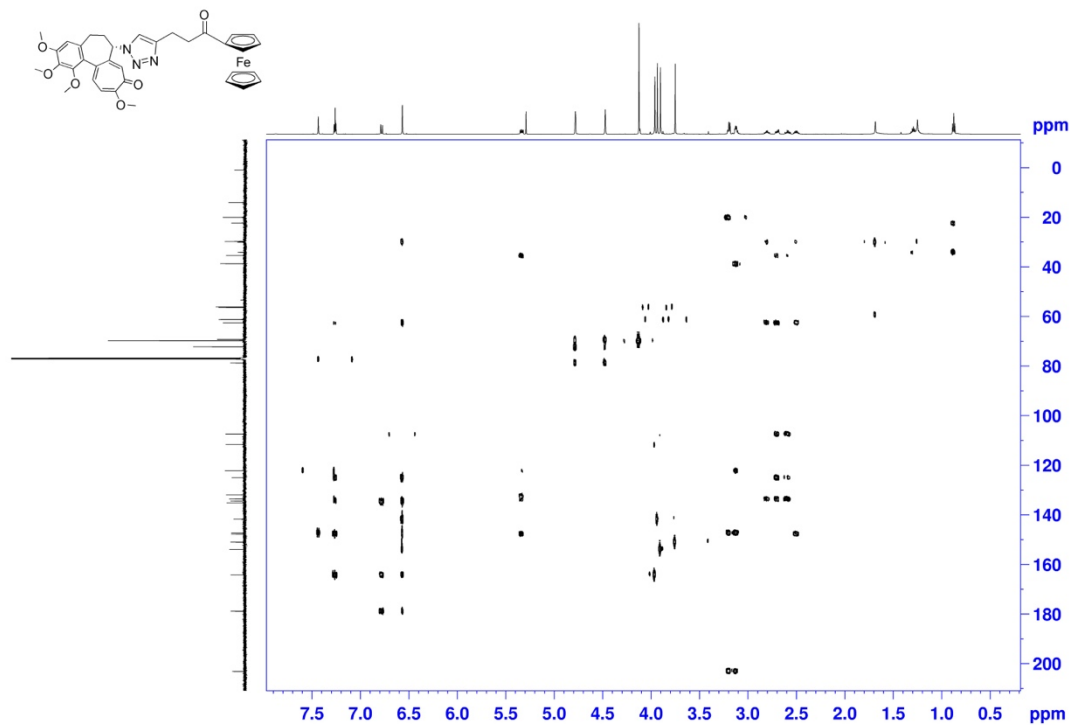
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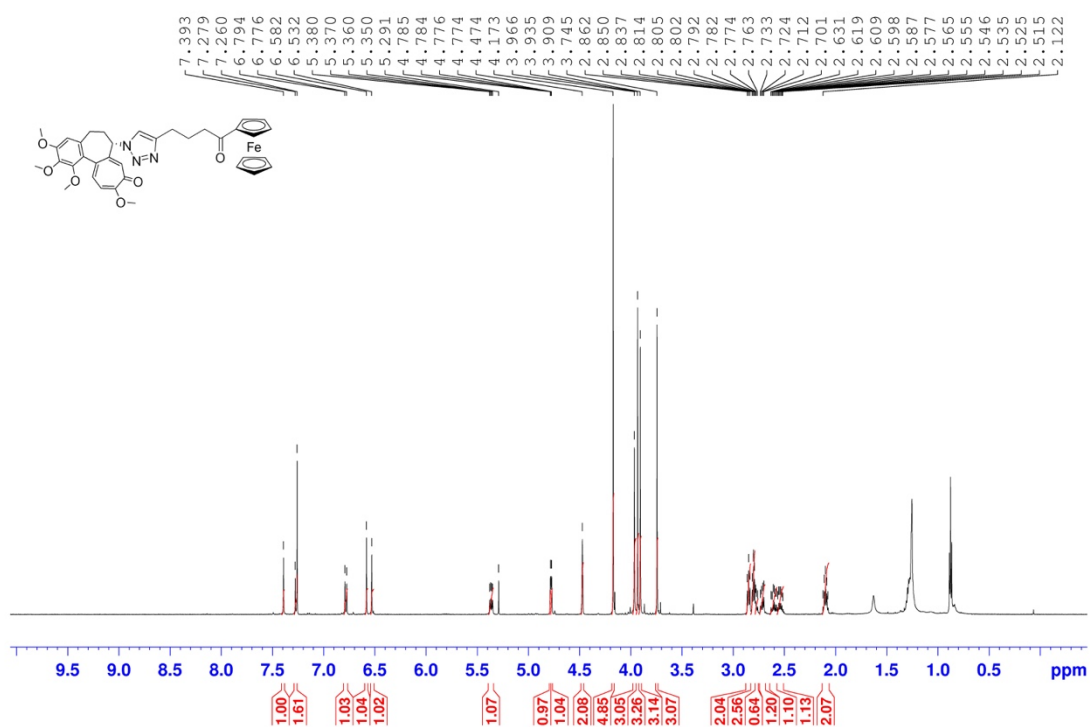
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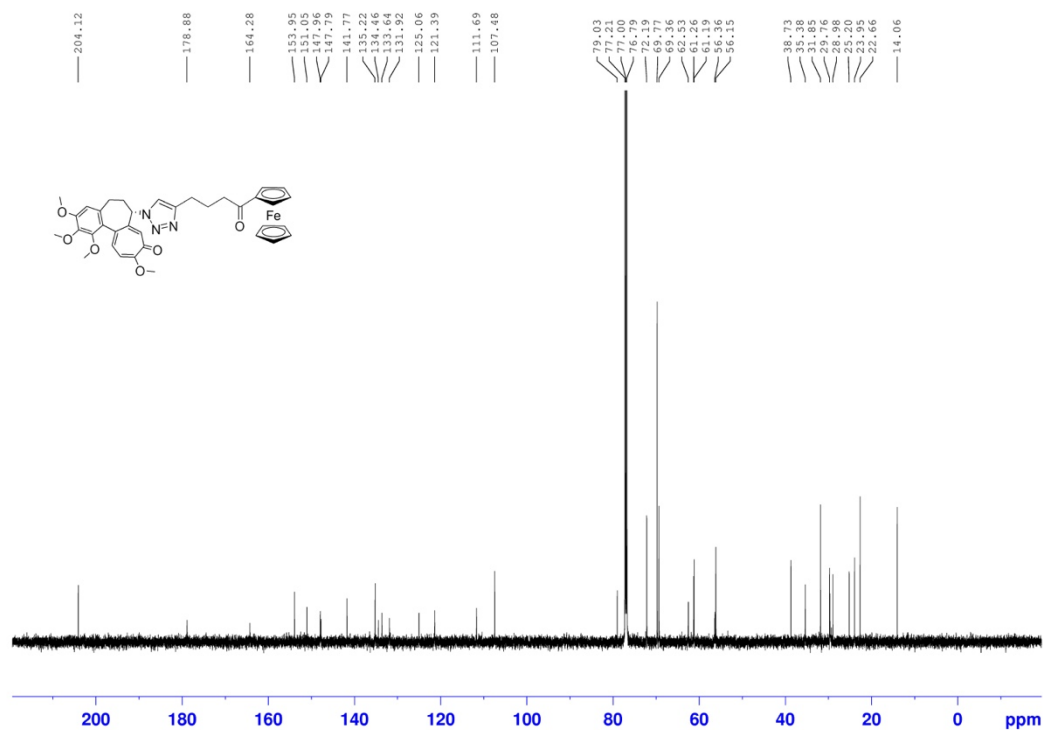
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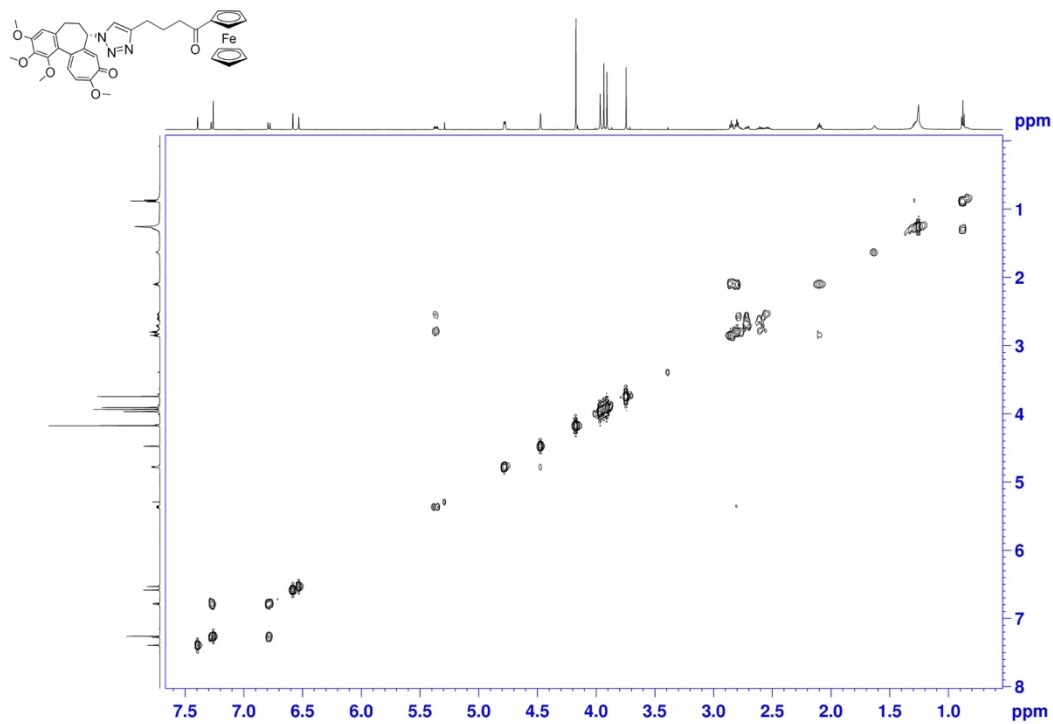
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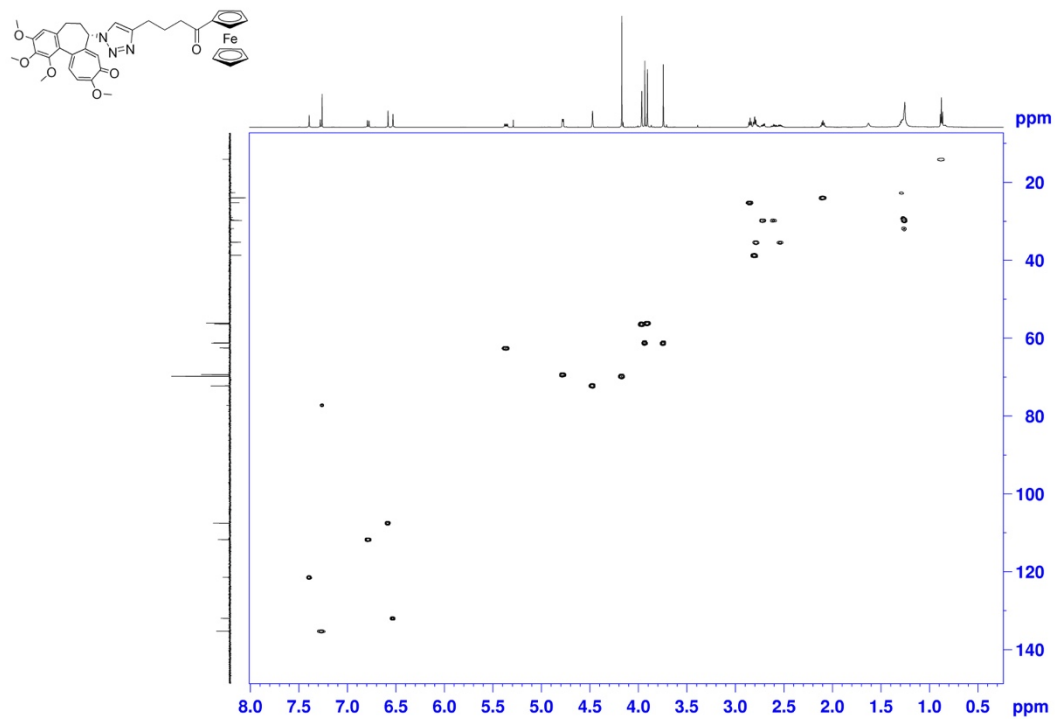
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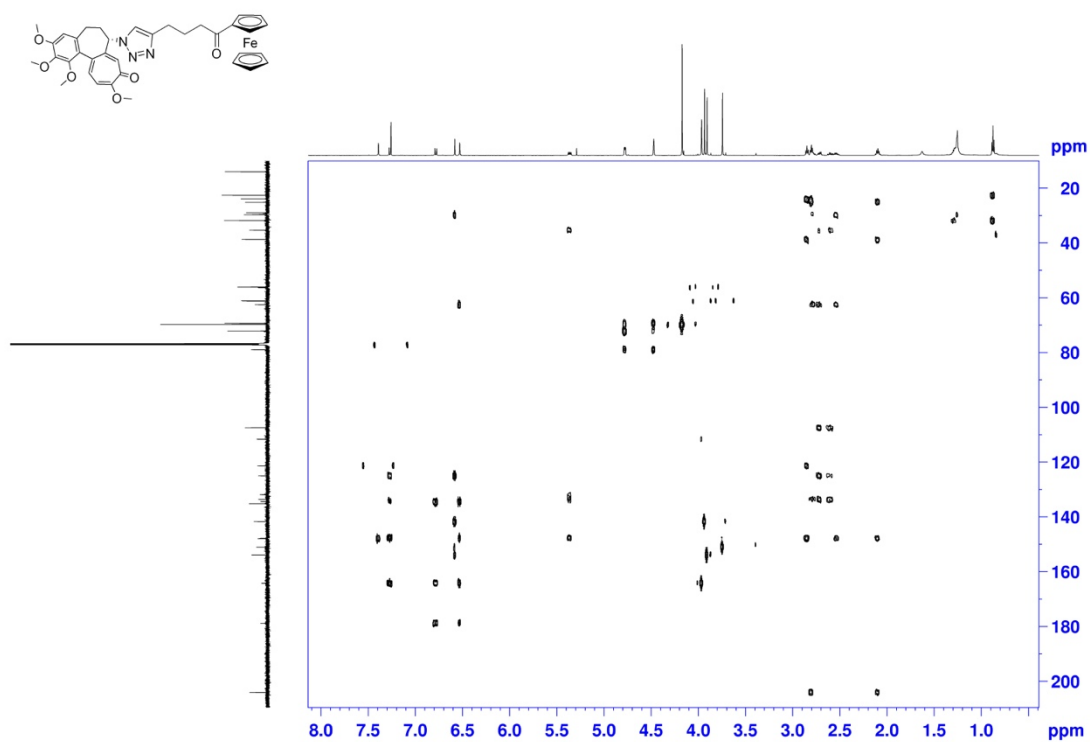
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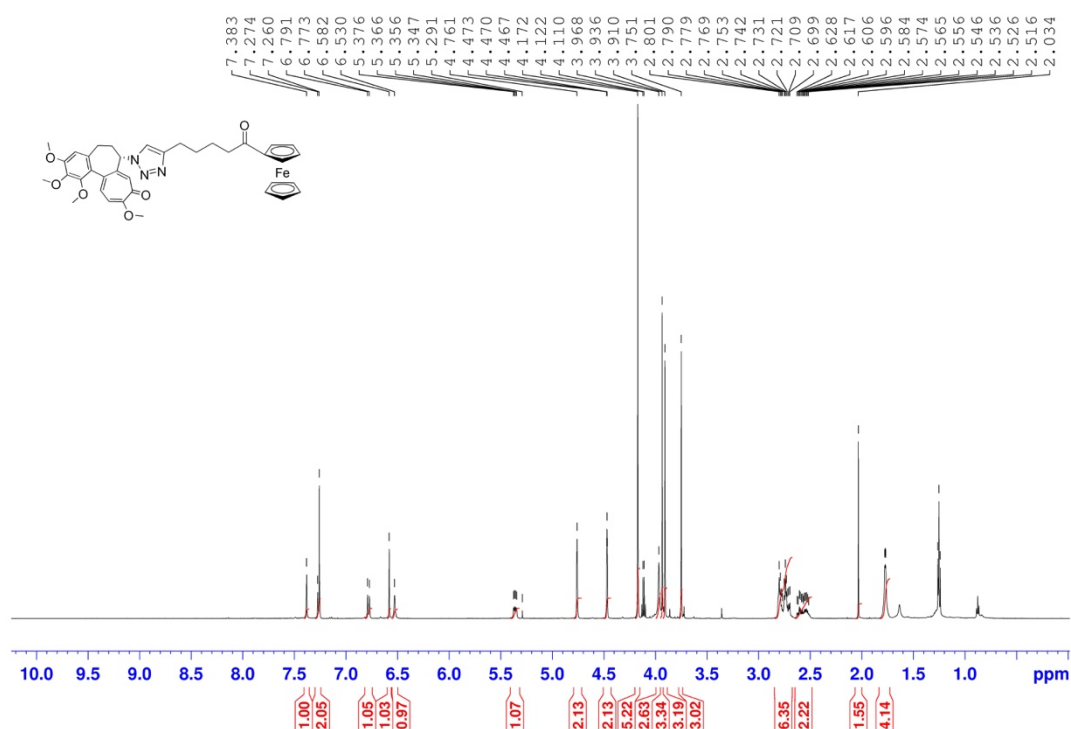
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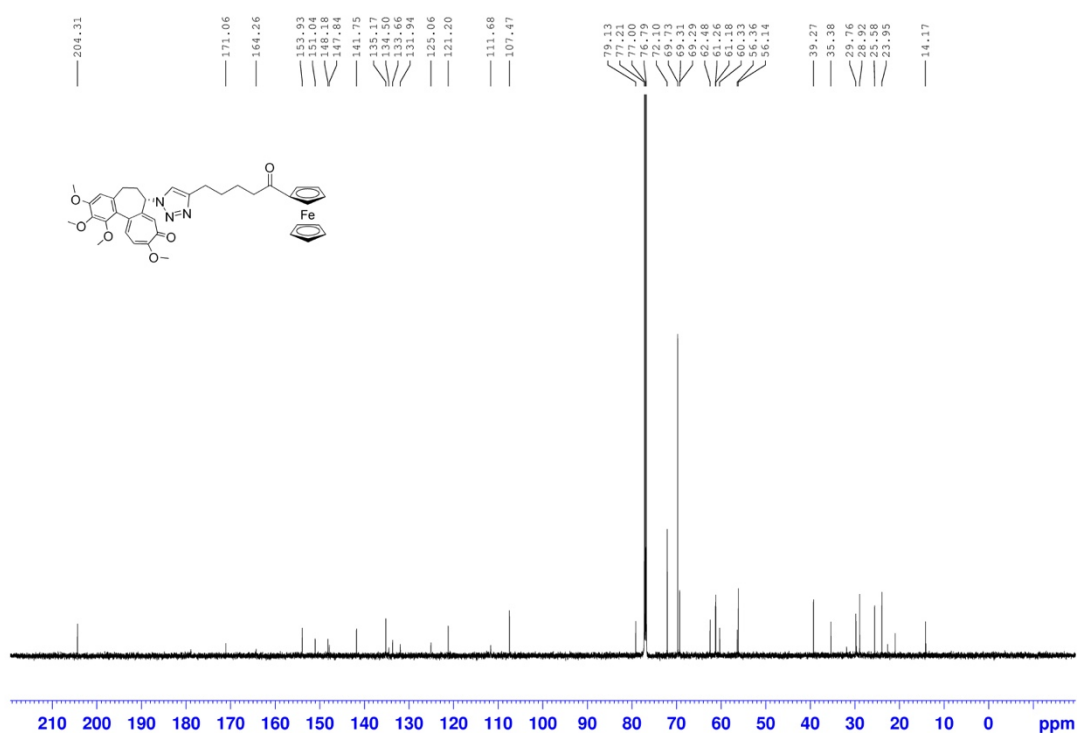
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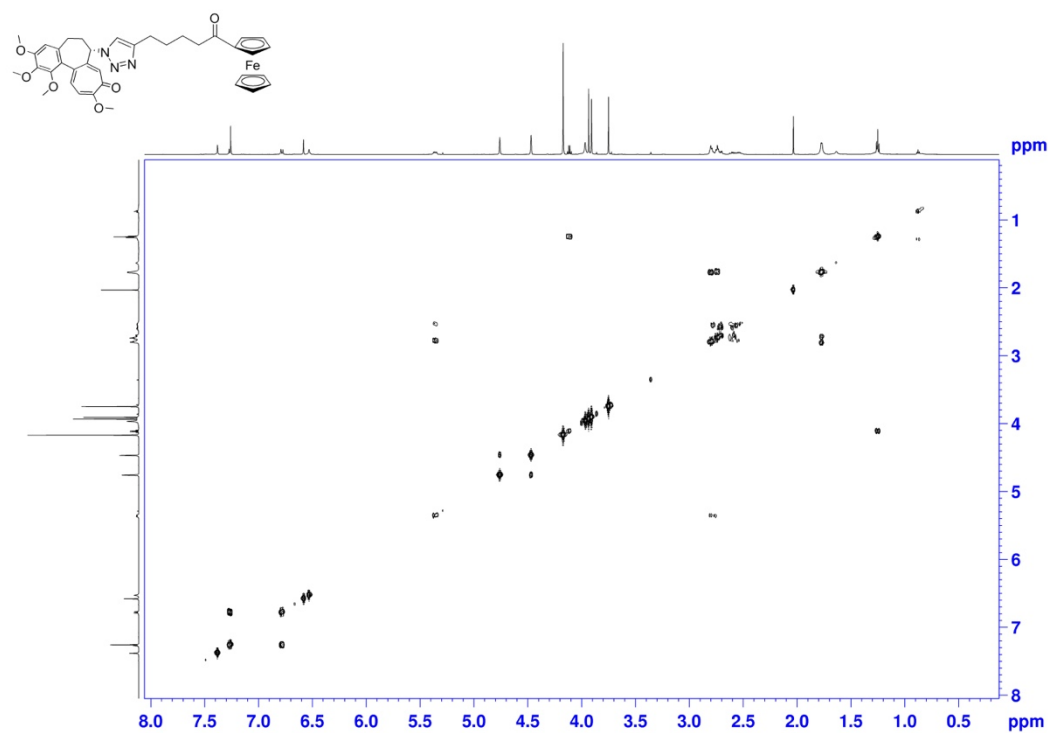
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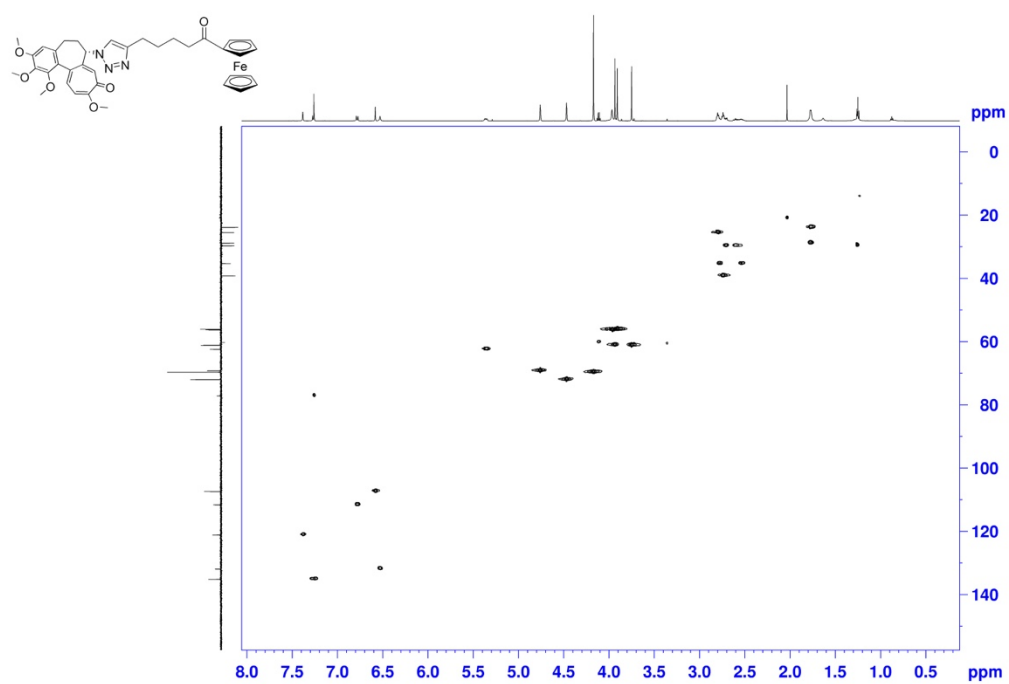
$^{13}\text{C}\{^1\text{H}\}$ NMR spectra of **Fc5**



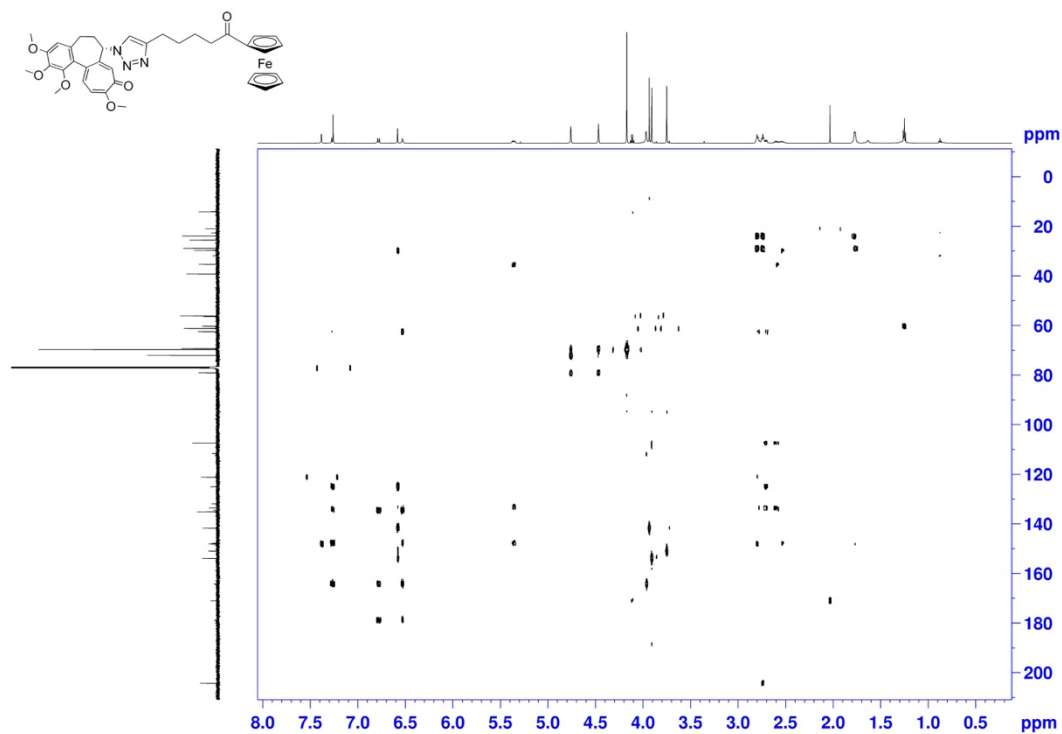
^1H - ^1H COSY spectra of **Fc5**



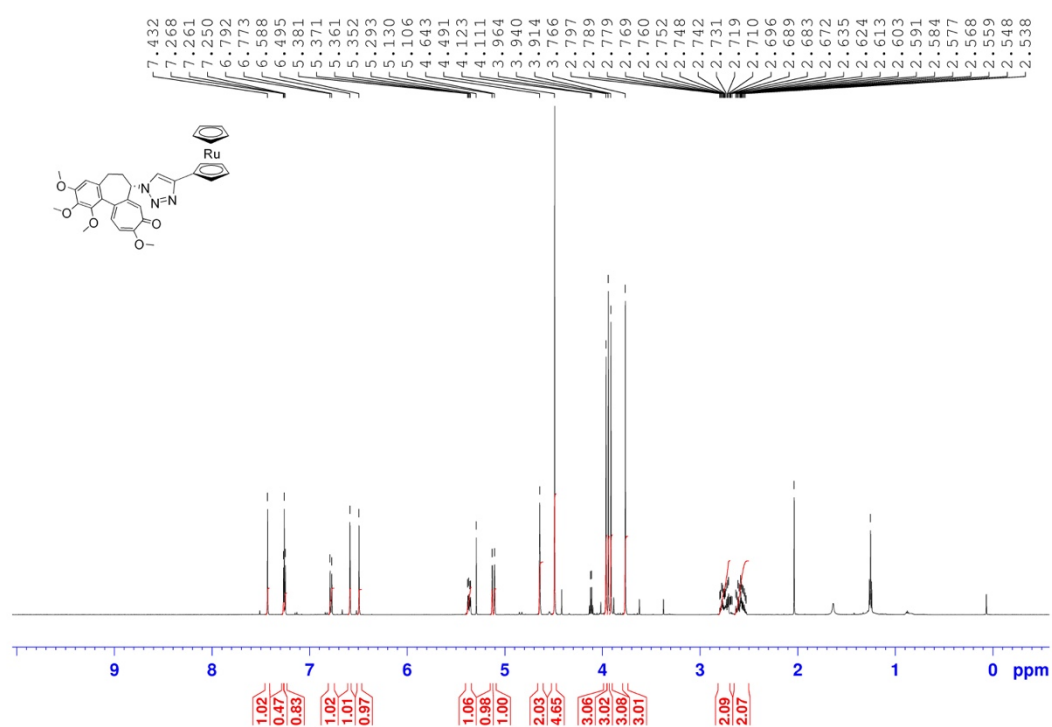
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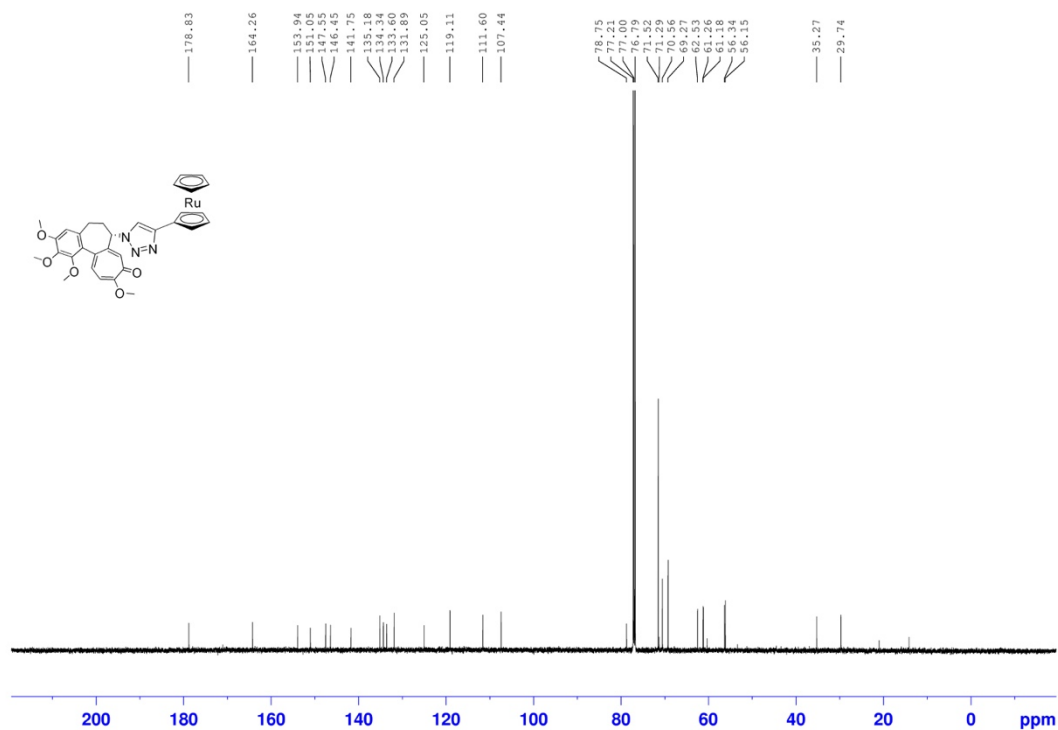
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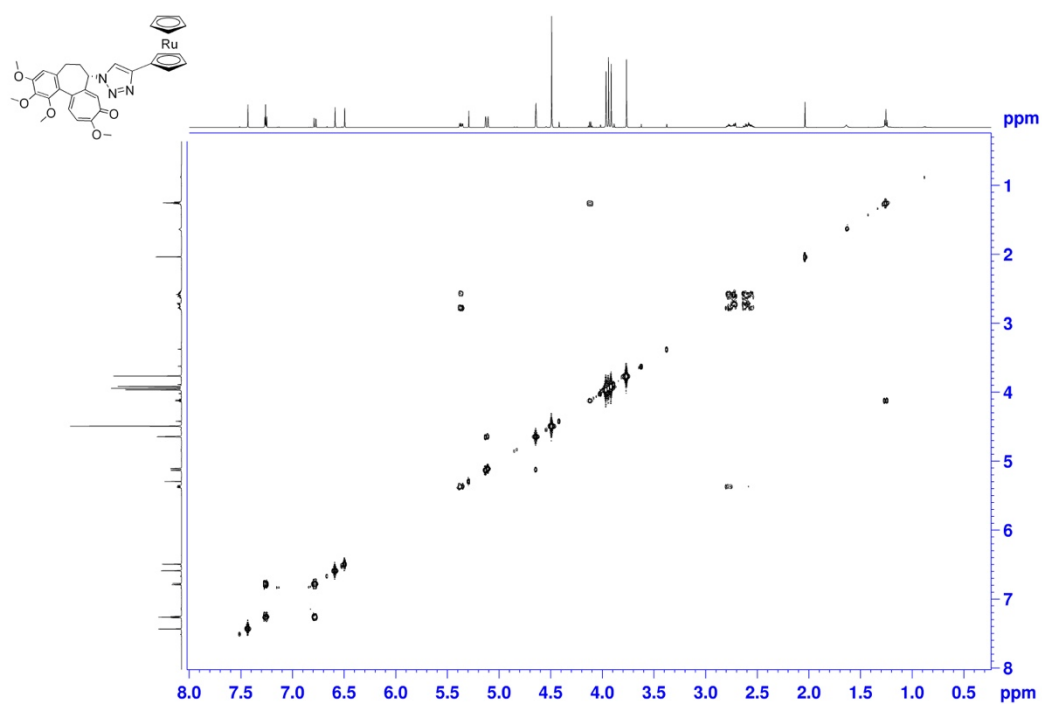
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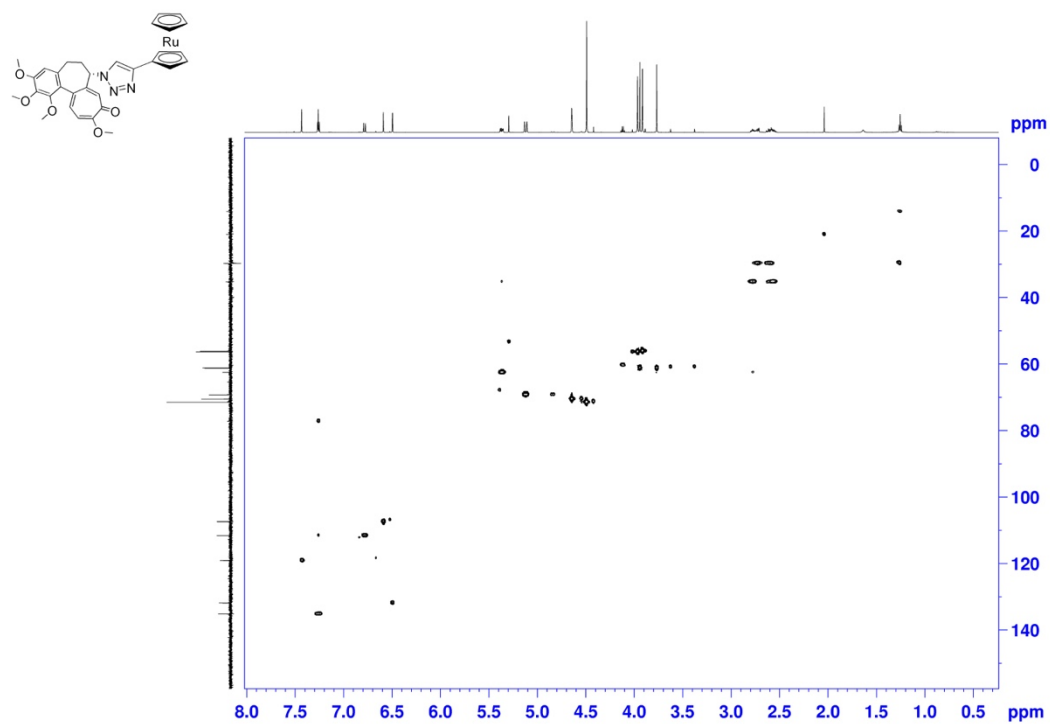
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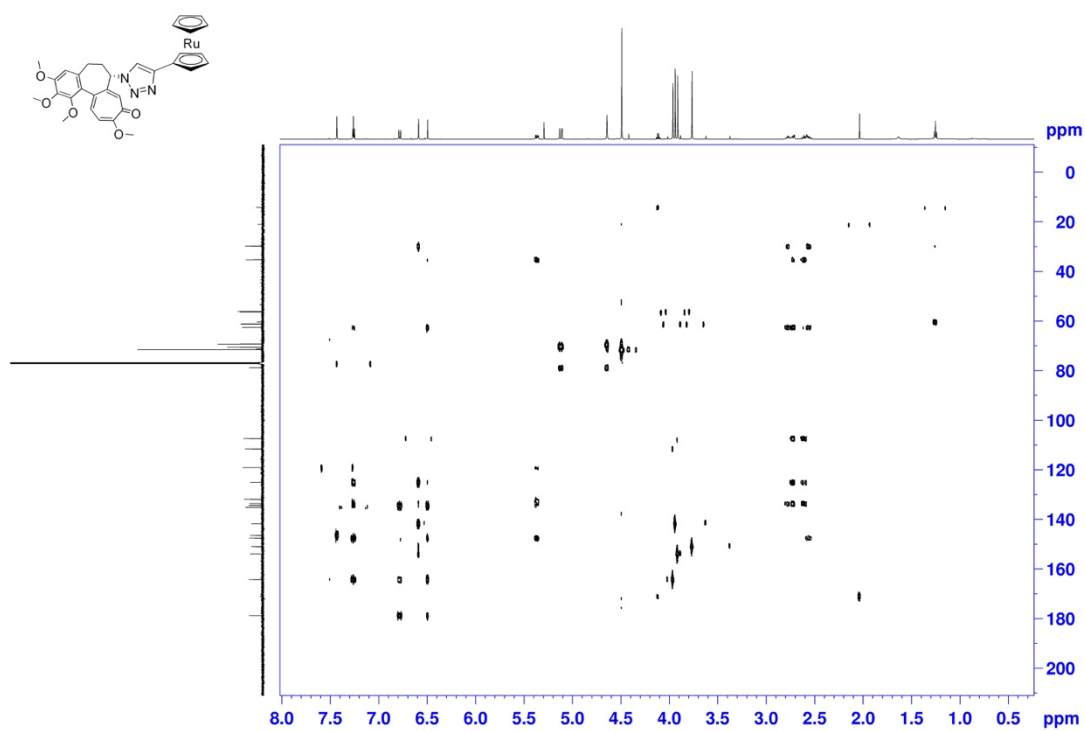
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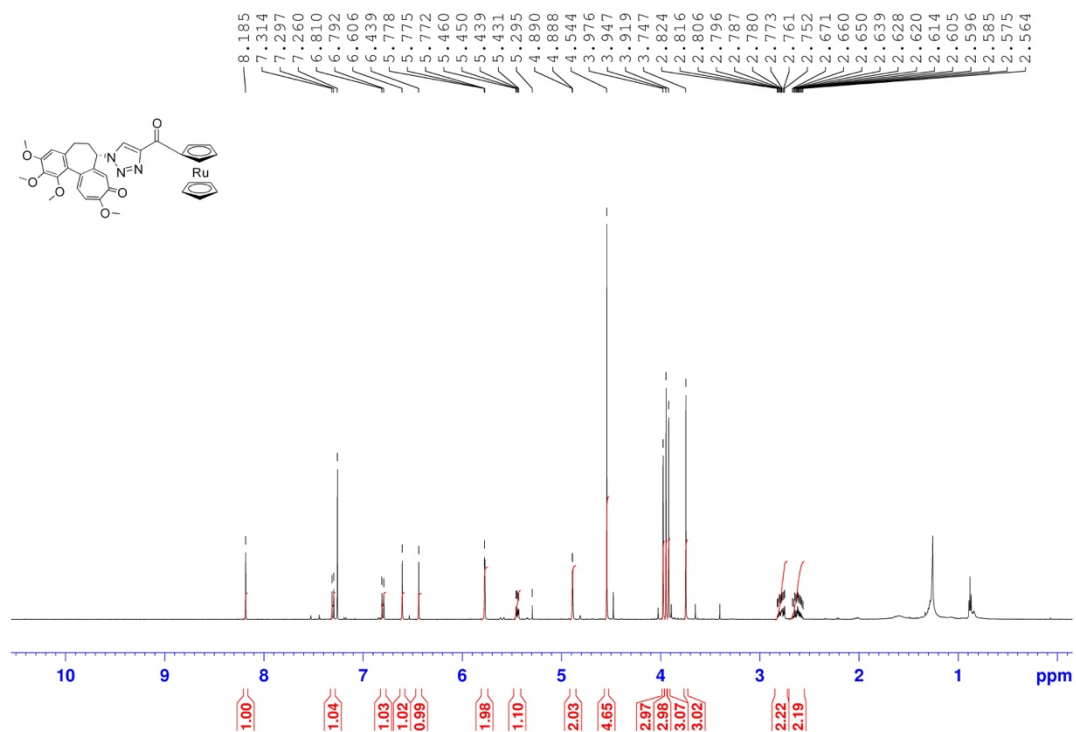
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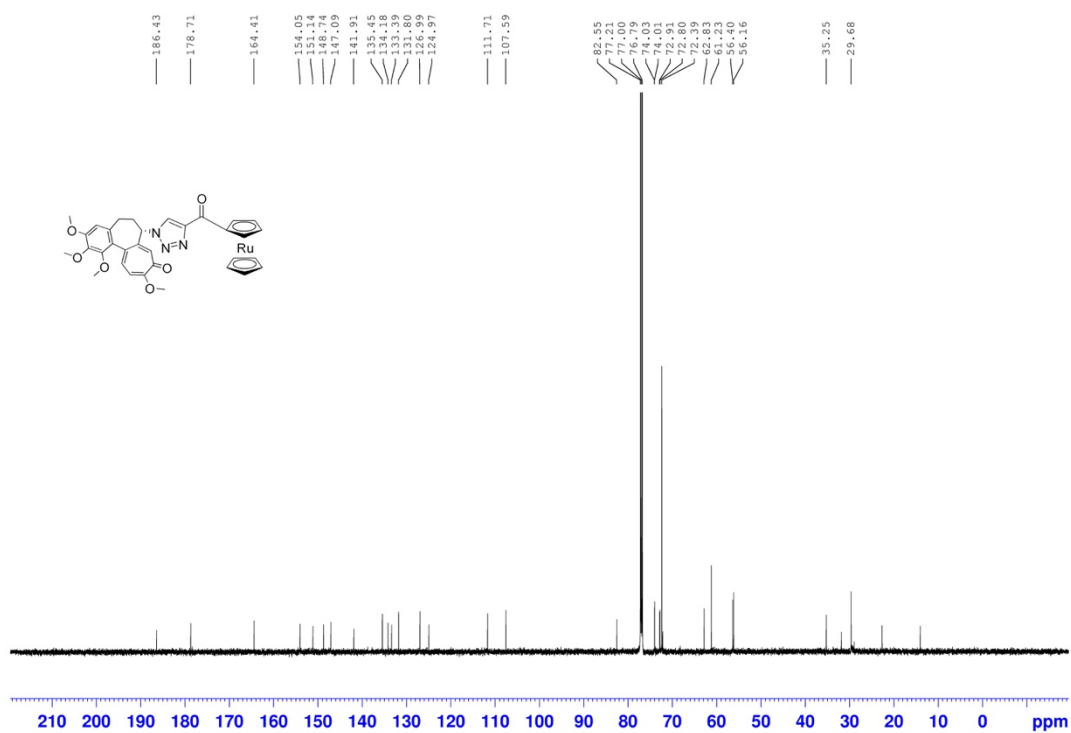
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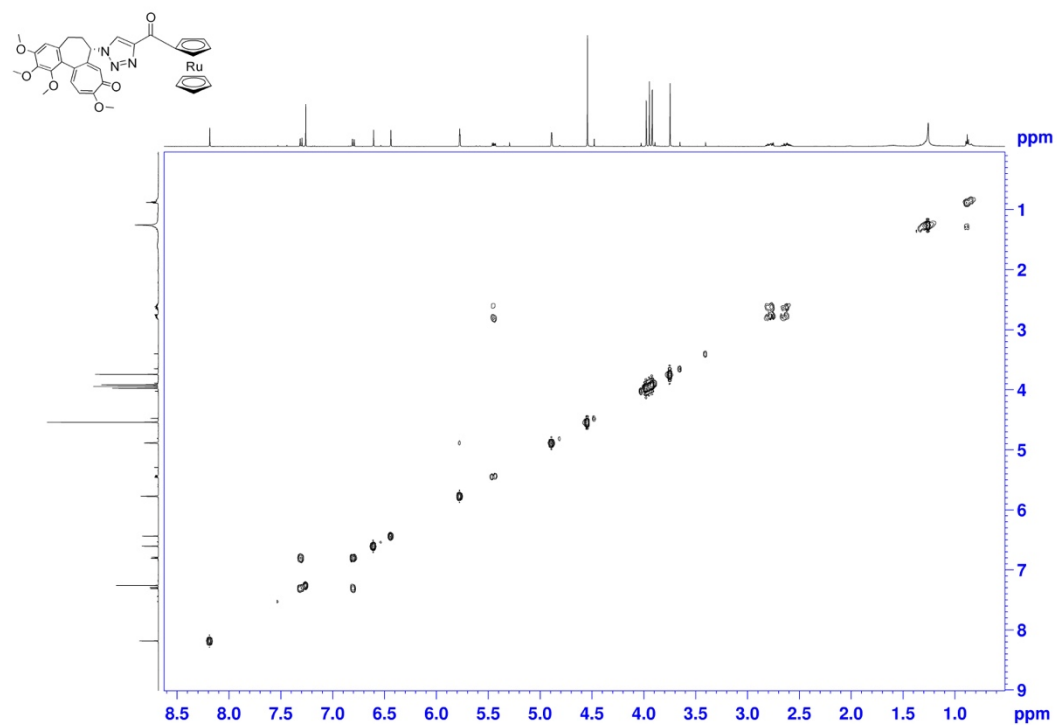
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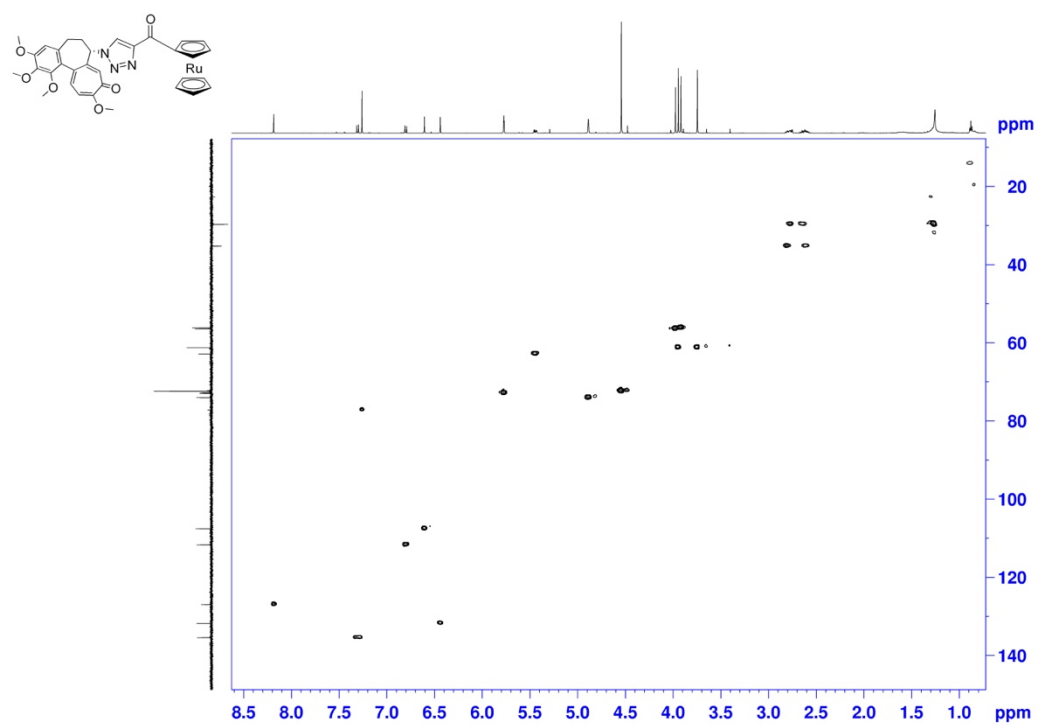
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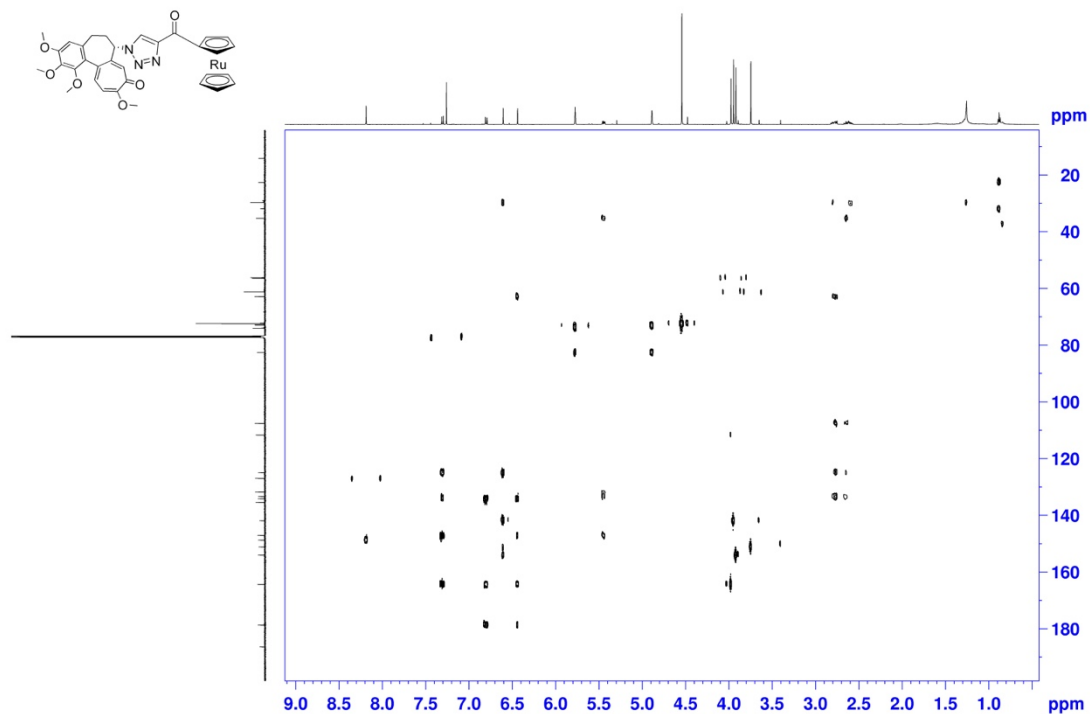
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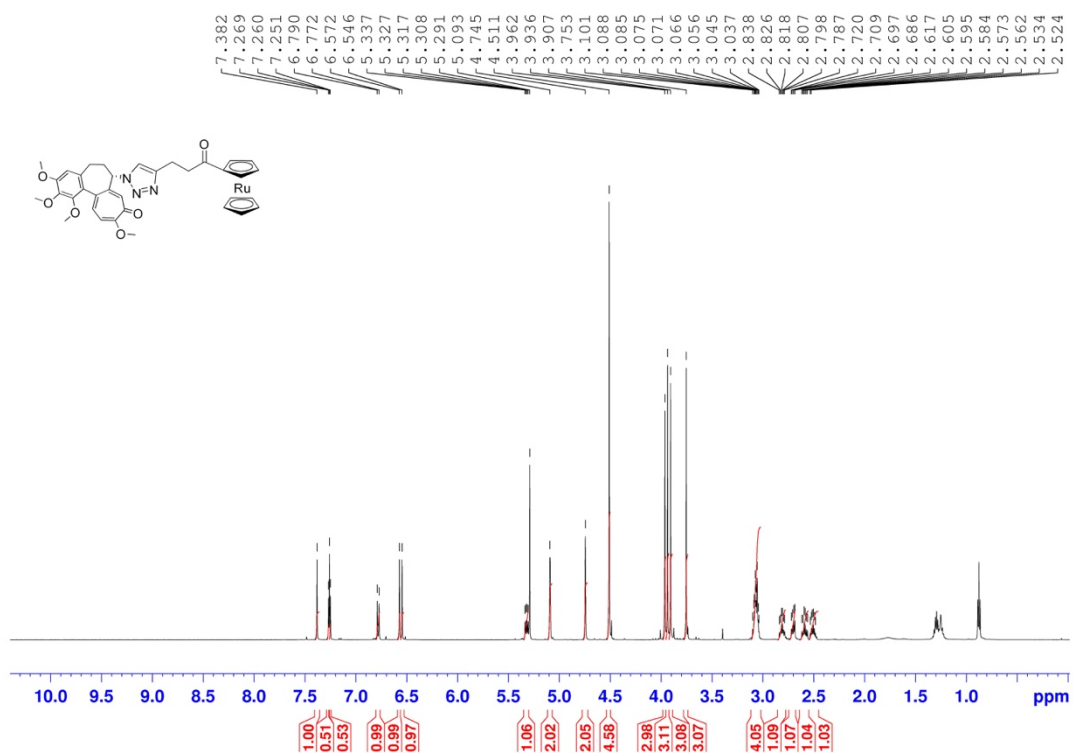
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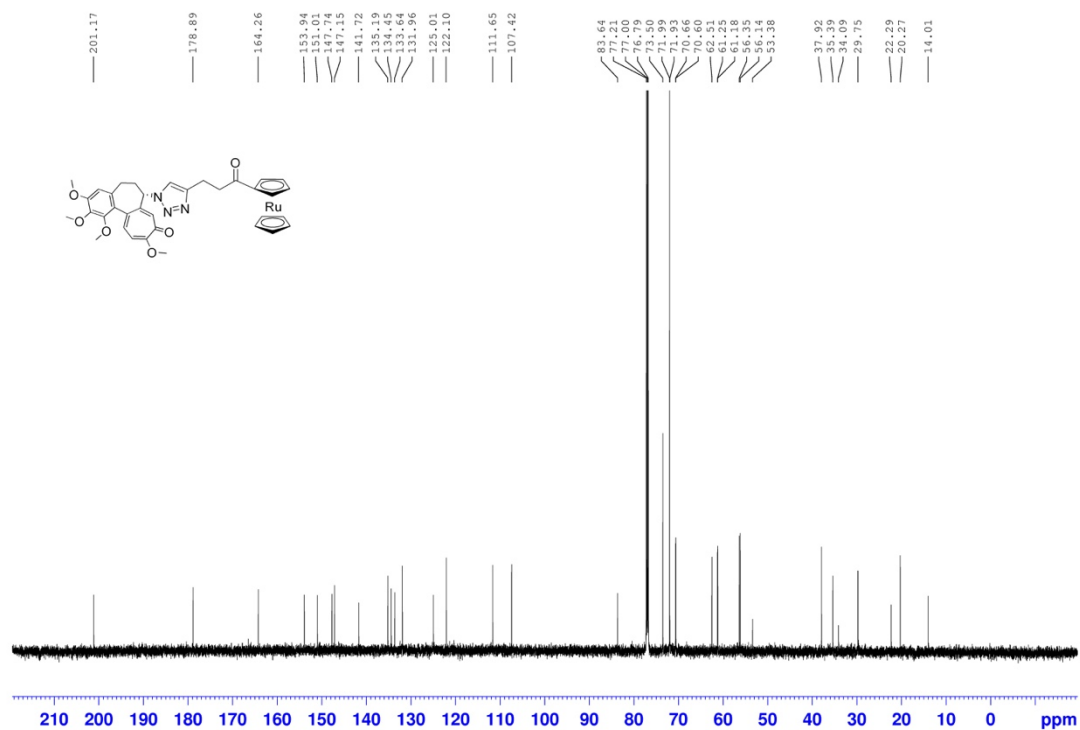
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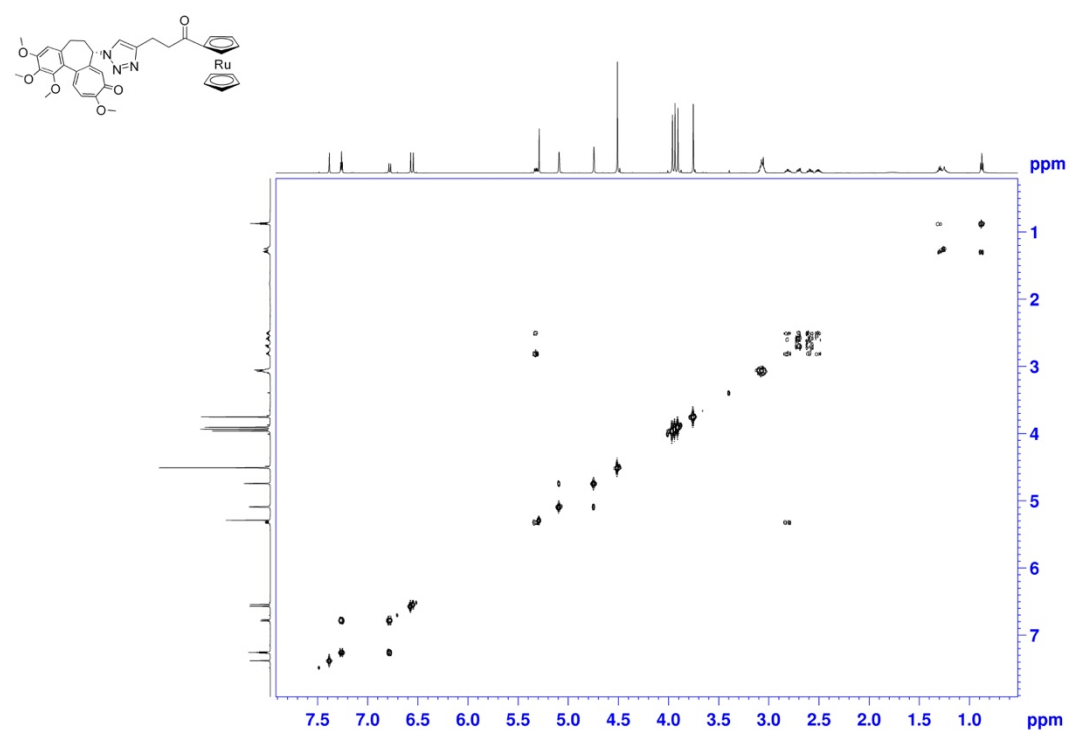
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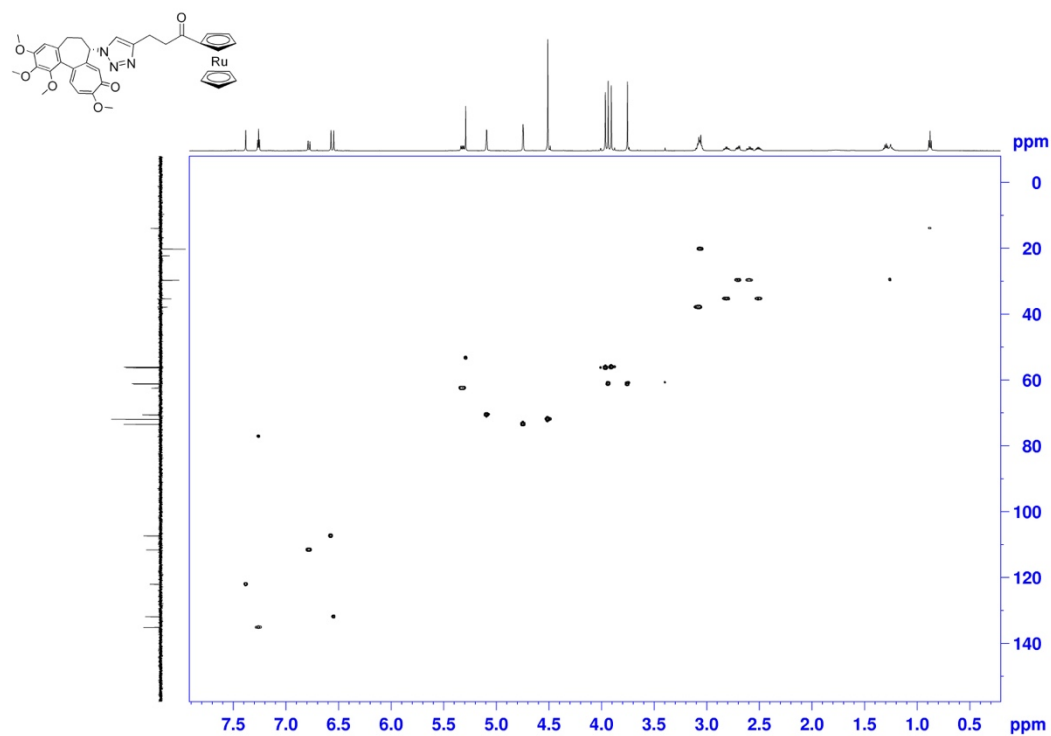
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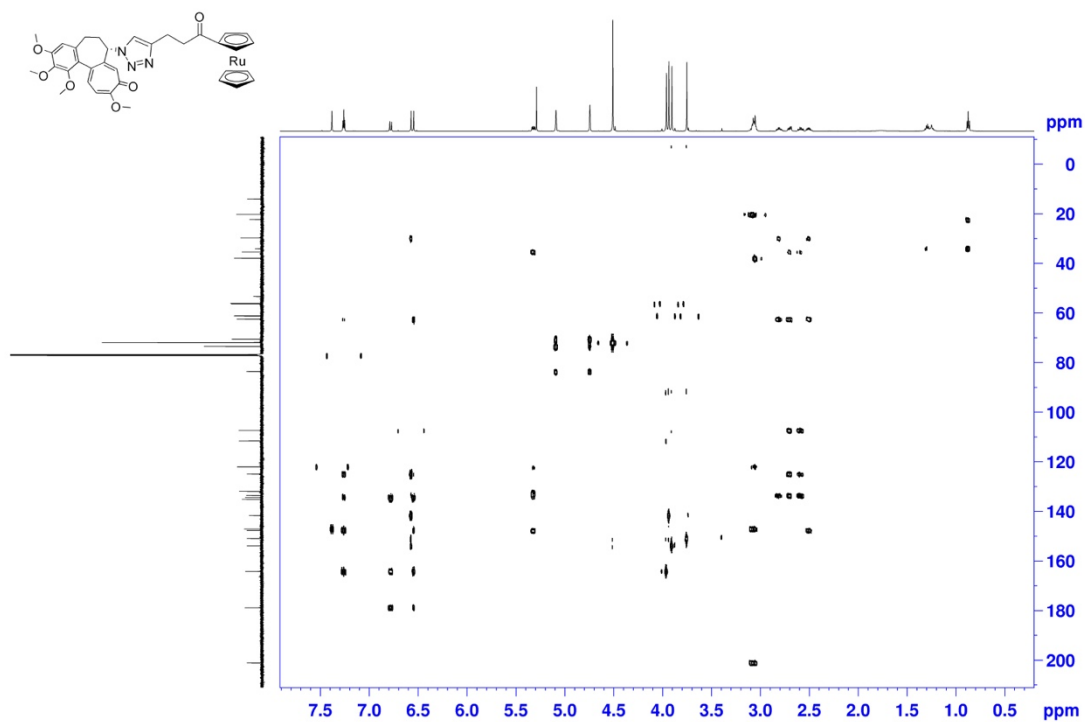
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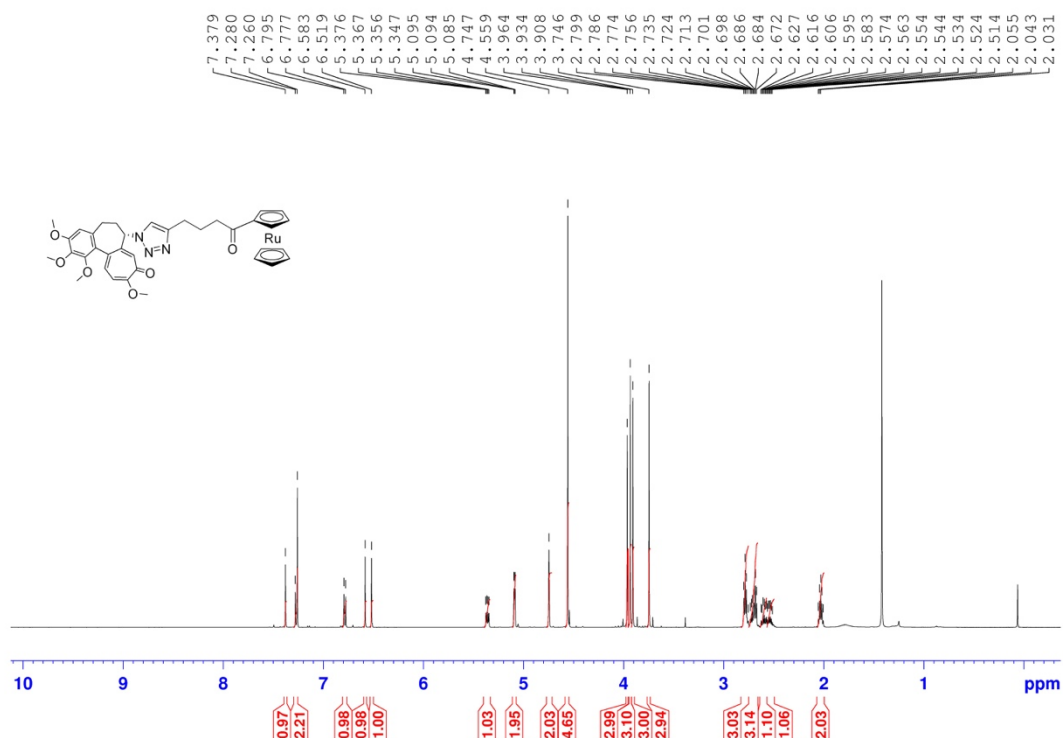
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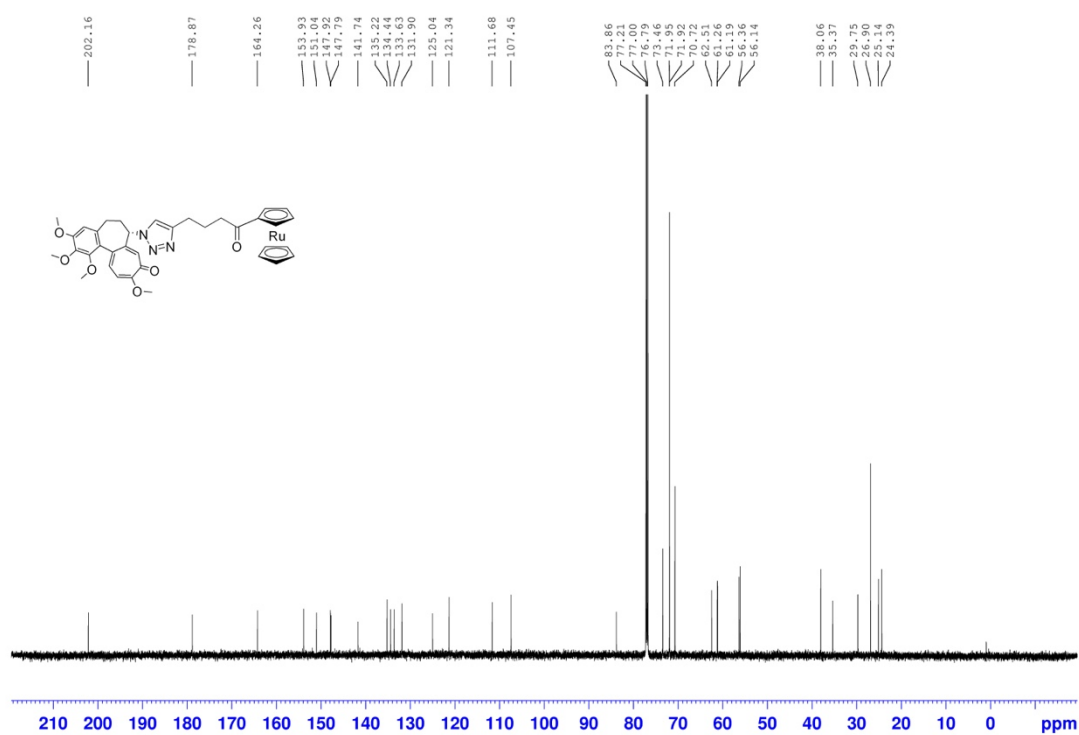
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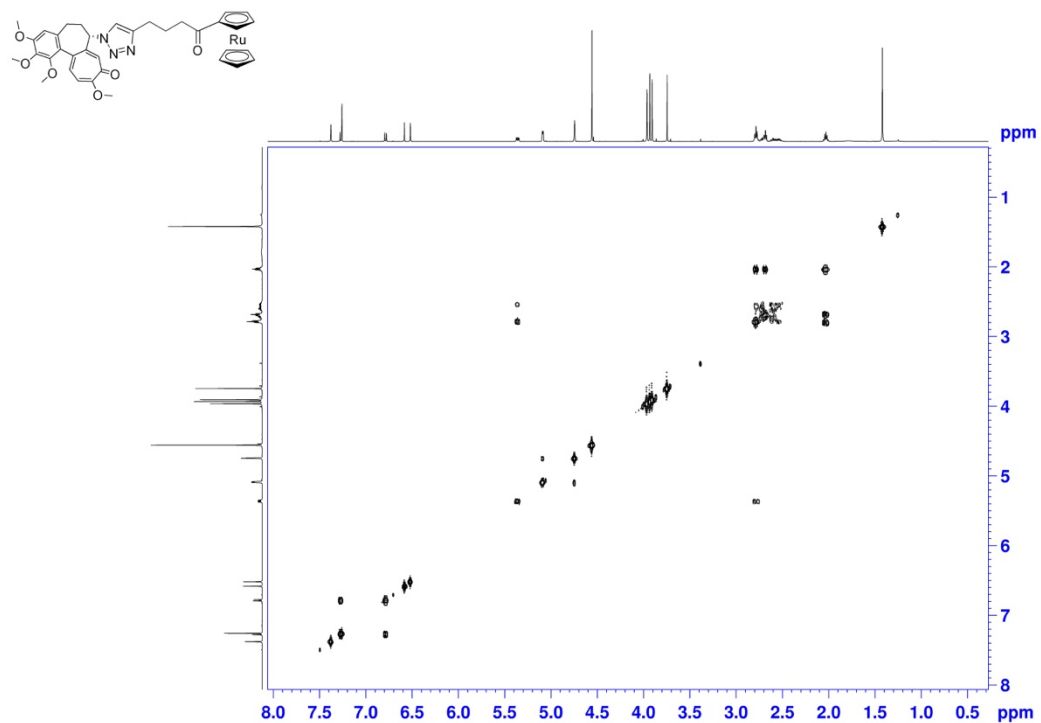
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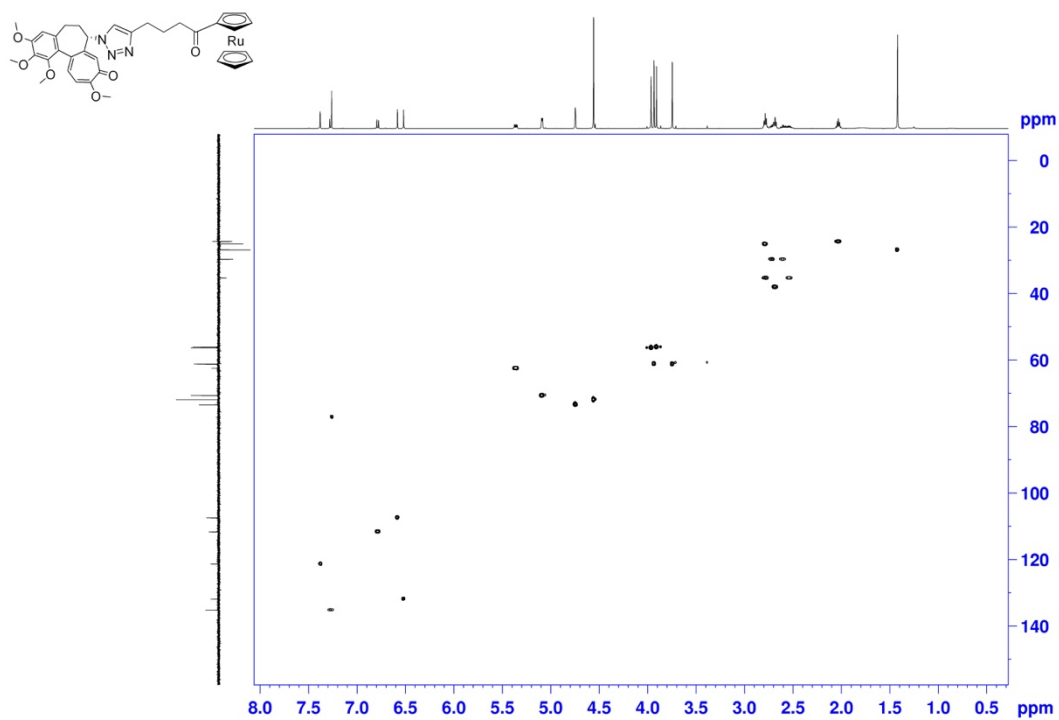
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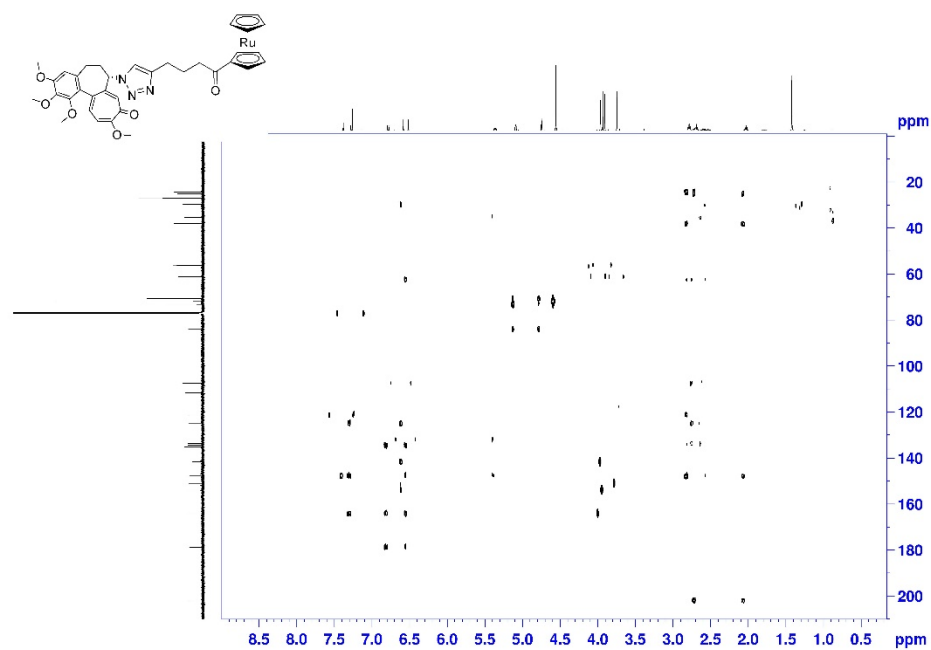
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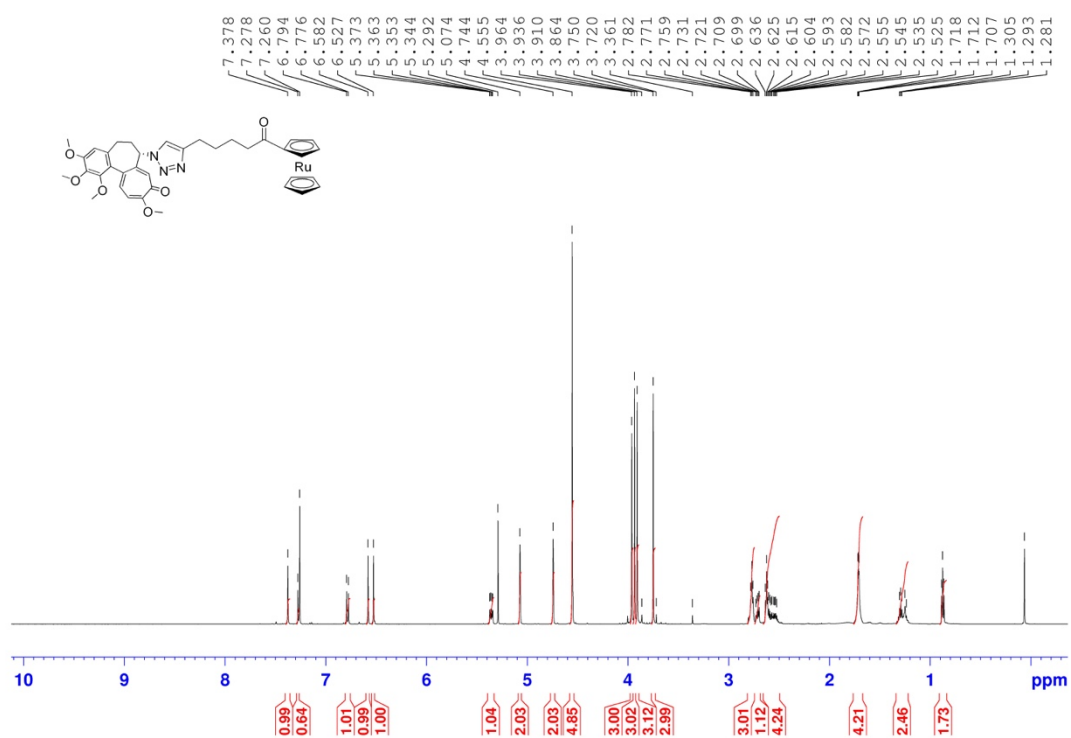
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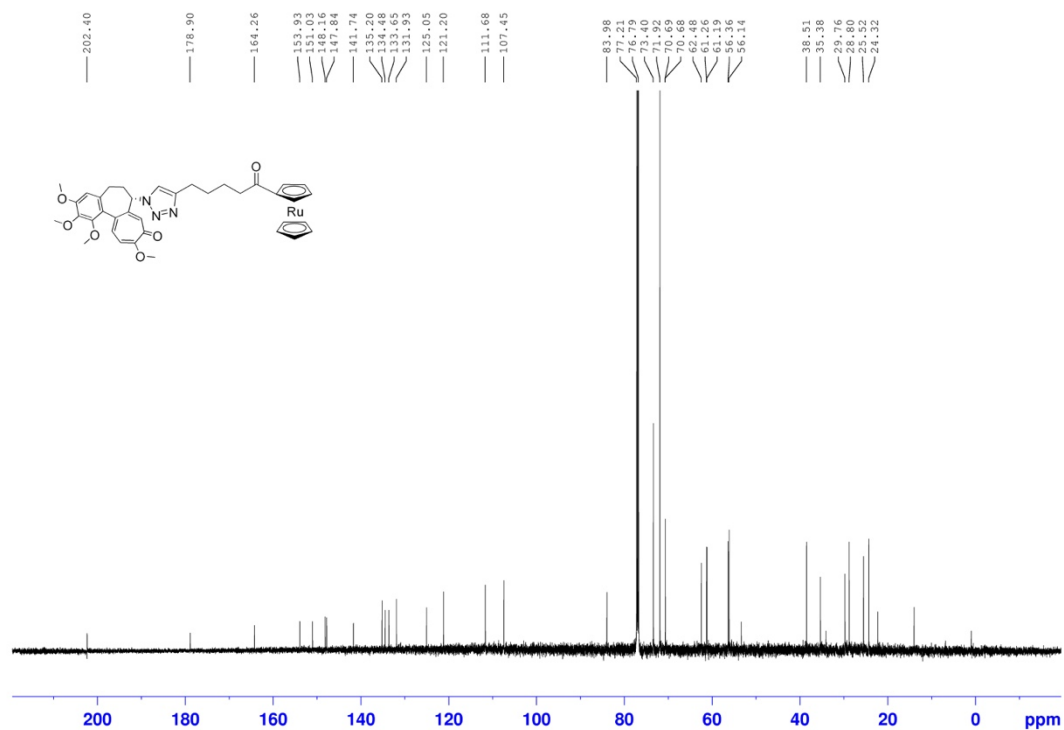
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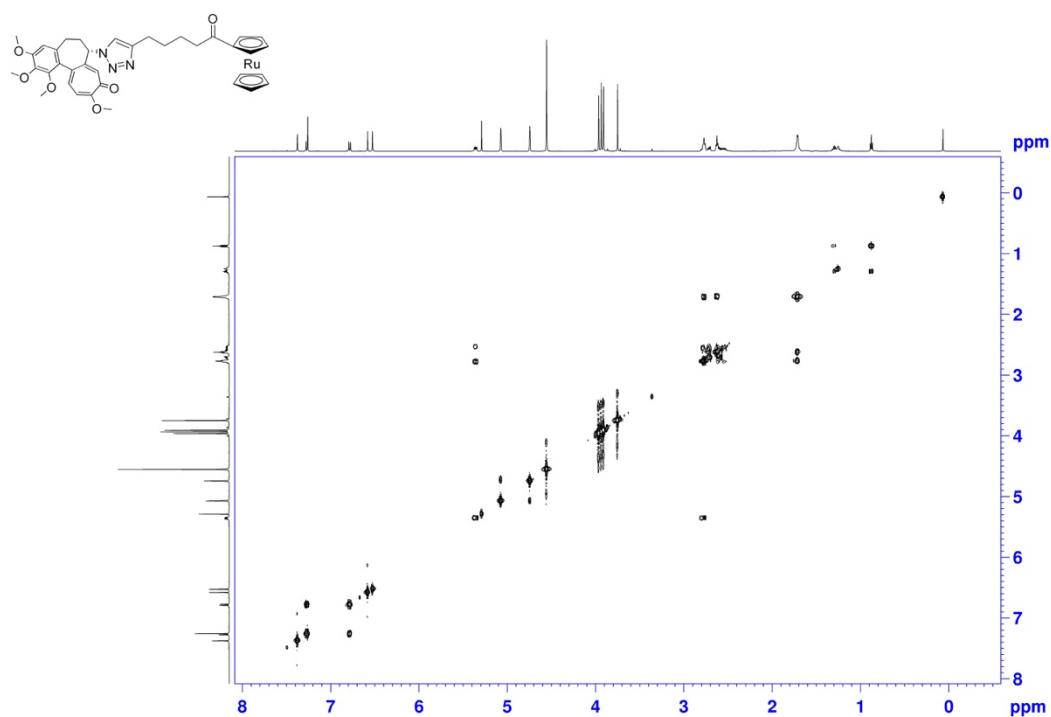
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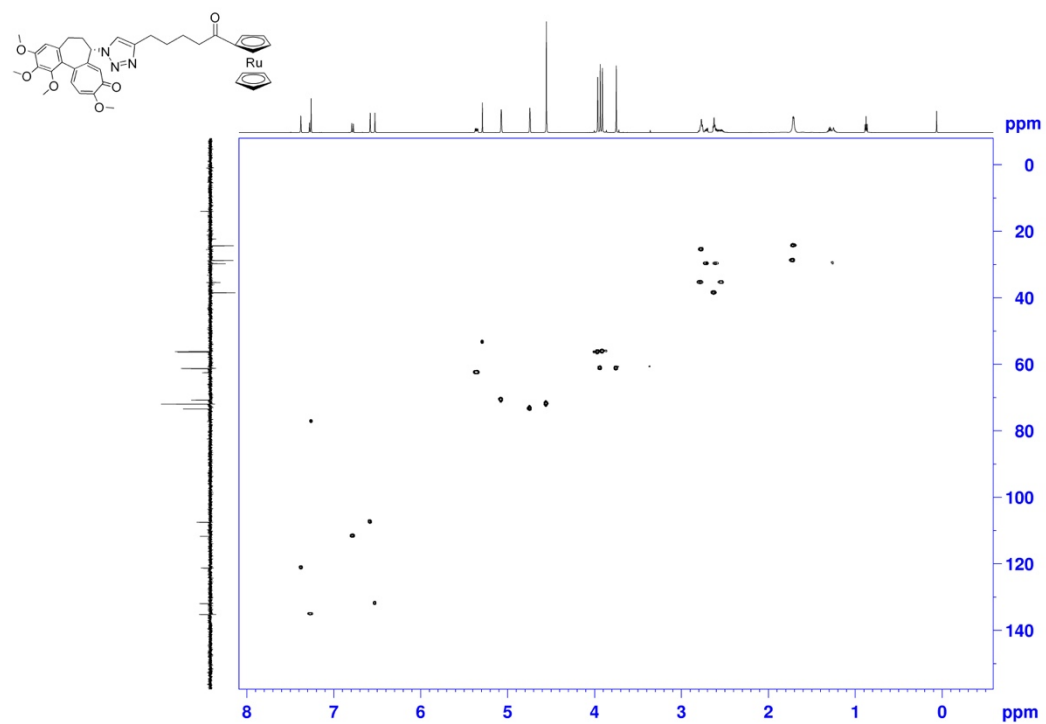
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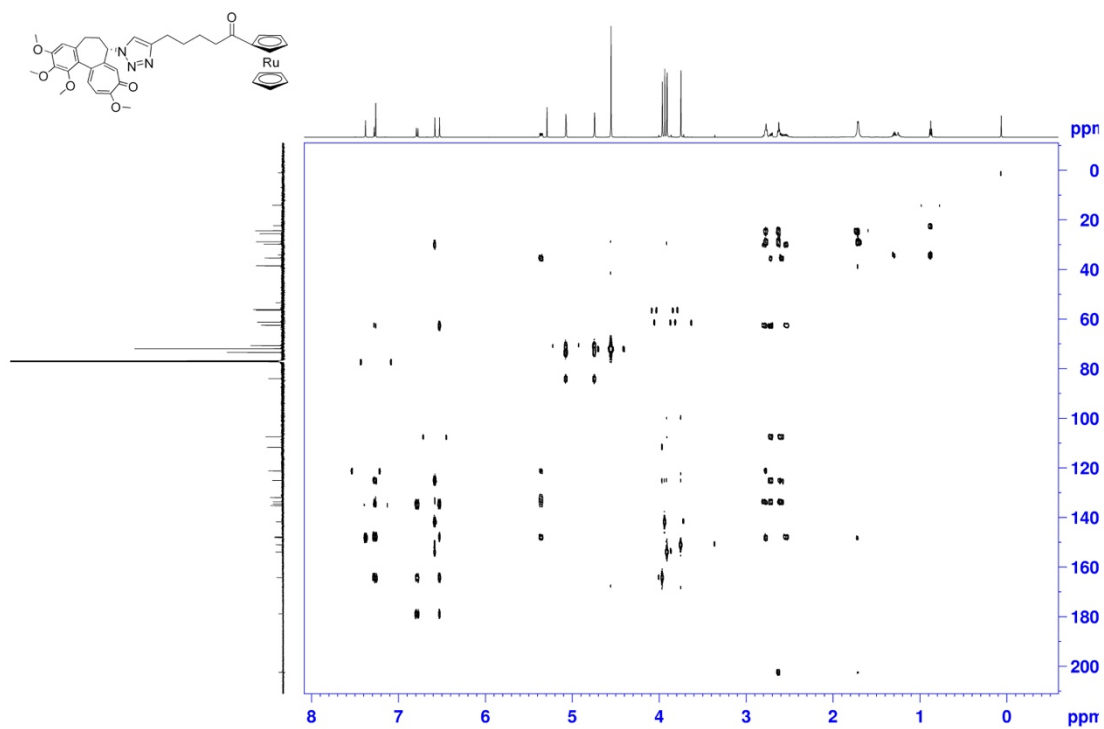
^1H - ^1H COSY spectra of **Rc5**



^1H - ^{13}C HSQC spectra of **Rc5**



^1H - ^{13}C HMBC spectra of **Rc5**



1. Karslyan, E.; Konovalov, A.; Perekalin, D.; Petrovskii, P.; Kudinov, A., New method for the synthesis of substituted ruthenocenes. *Russ. Chem. Biul.* **2008**, 57 (9), 2032-2033.
2. Barlow, S.; Henling, L. M.; Day, M. W.; Schaefer, W. P.; Green, J. C.; Hascall, T.; Marder, S. R., Metallocene-Terminated Allylium Salts: The Effect of End Group on Localization in Polymethines. *J. Am. Chem. Soc.* **2002**, 124 (22), 6285-6296.
3. Plazuk, D.; Zakrzewski, J., Friedel-Crafts acylation of ferrocene with alkynoic acids. *J. Organomet. Chem.* **2009**, 694 (12), 1802-1806.
4. Akiyama, T.; Hattori, T.; Ito, K.; Uryu, T.; Kajitani, M.; Sugimori, A., Formation of ethynyl metallocenyl ketone from 1, 1, 1-trichloro-3-alkoxy-3-metallocenylpropane. *Chem. Lett.* **1980**, 9 (4), 361-364.