

SUPPORTING INFORMATION

Aryl-Substituted Cyclopropyl Acetylenes as Sensitive Mechanistic Probes in the Gold-Catalyzed Hydration of Alkynes. Comparison to the Ag(I), Hg(II) and Fe(III)-Catalyzed Processes

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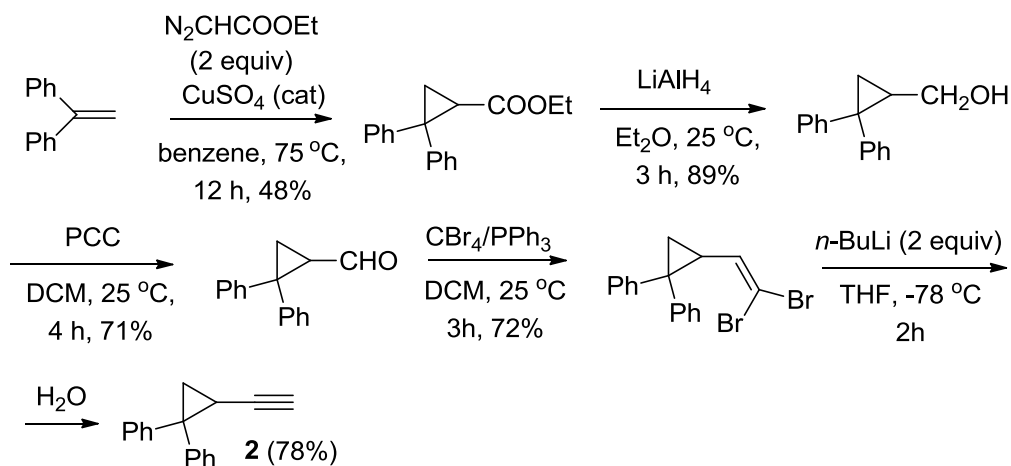
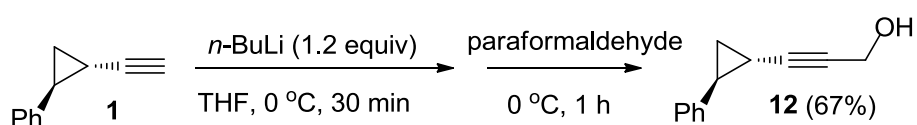
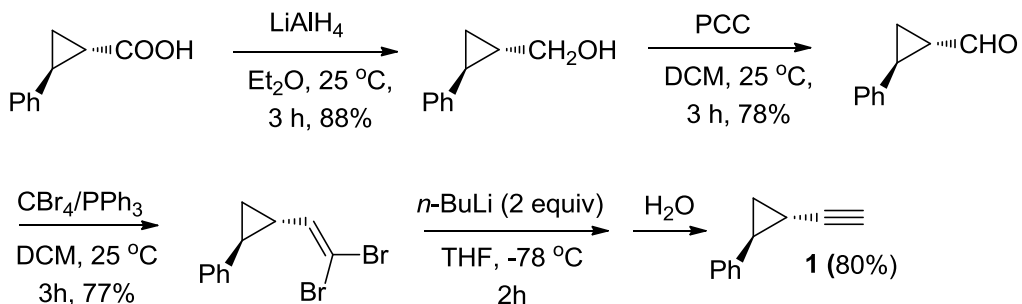
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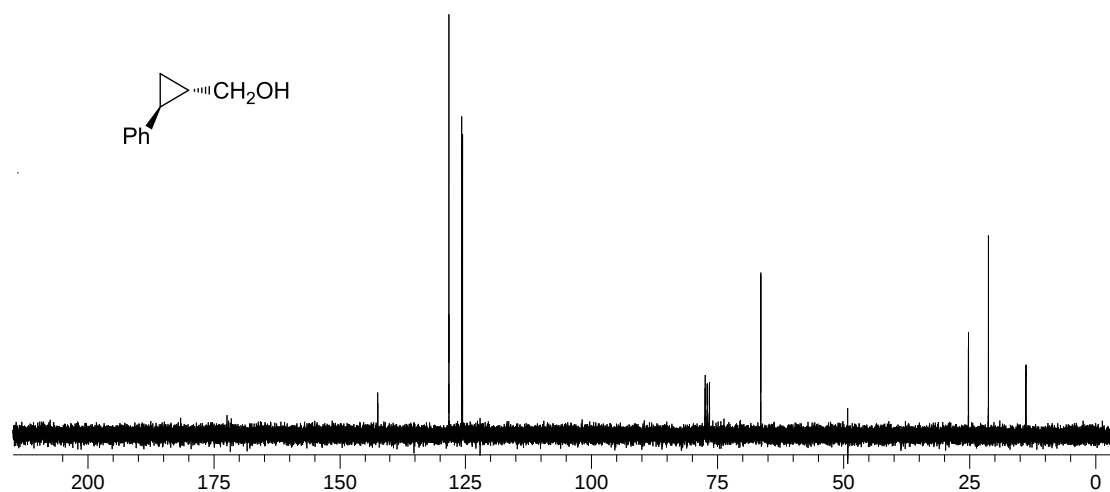
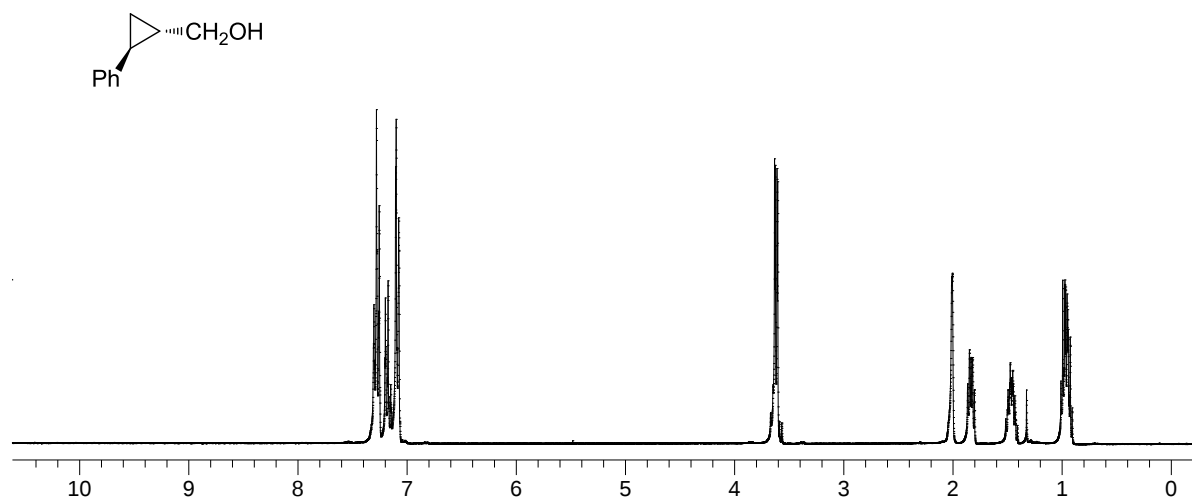
S2	Schematic presentation of the synthesis of cyclopropyl alkynes 1 , 2 and 12
S3-S23	¹ H and ¹³ C NMR spectra of all reactants and products and MS spectrum of compound 10

Schematic presentation of the synthesis of cyclopropyl alkynes **1**, **2** and **12**



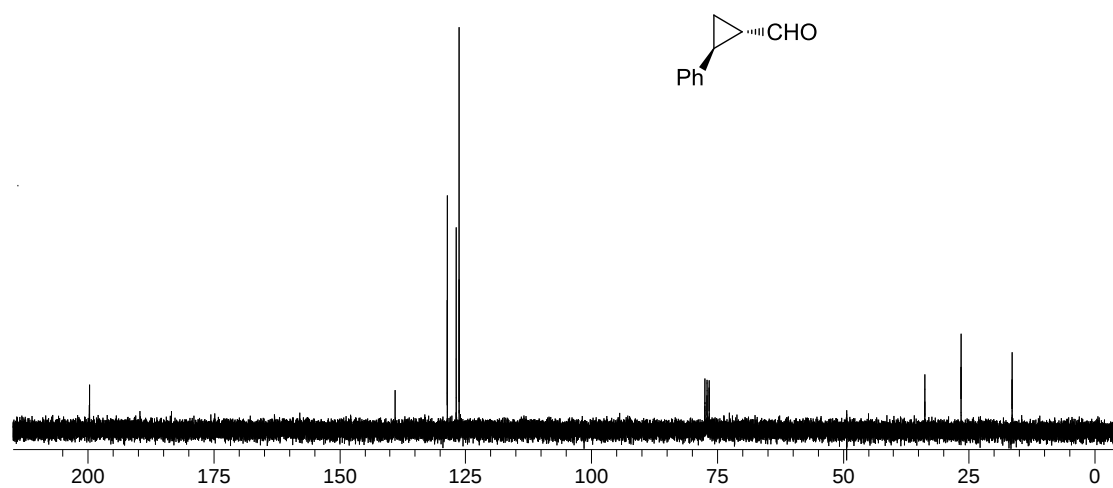
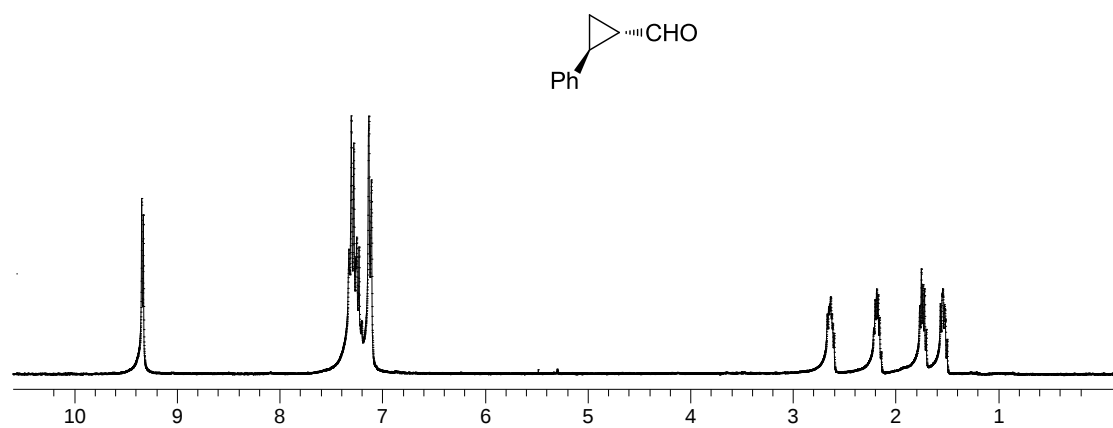
References

1. Synthesis of **1**: Gottschling, S. E.; Grant, T. N.; Milnes, K. K.; Jennings, M. C.; Baines, K. M. *J. Org. Chem.* **2005**, *70*, 2686.
2. Synthesis of **2**: Schmitt, M.; Mahajan, A. A.; Bucher, G.; Bats, J. W. *J. Org. Chem.* **2007**, *72*, 2166.

^1H and ^{13}C NMR spectra

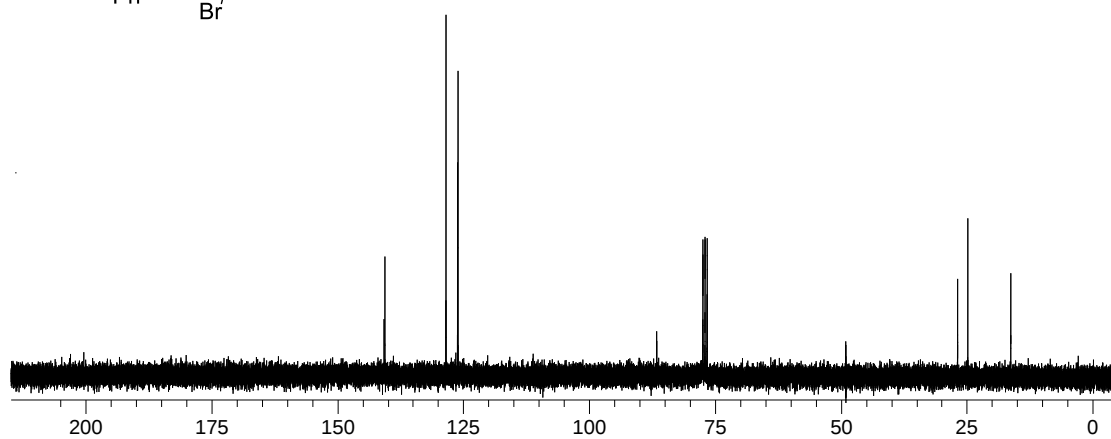
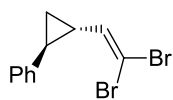
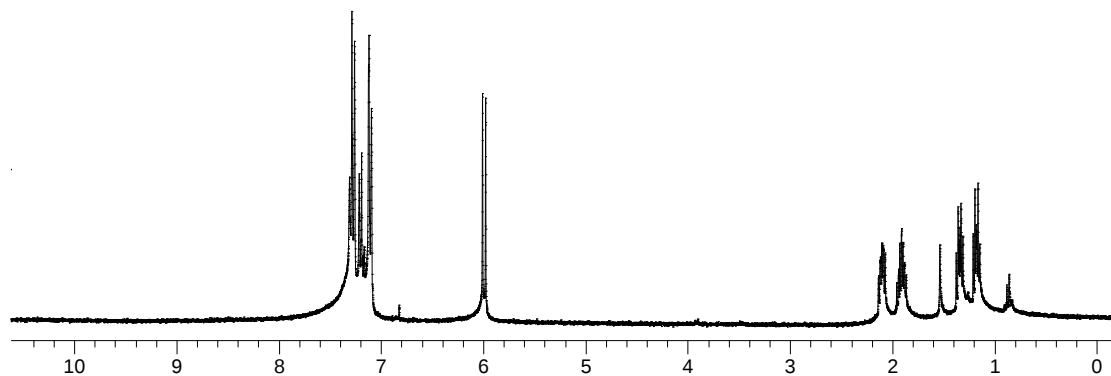
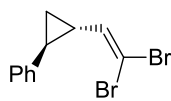
*: The peak around 50 ppm is a spike.

S4



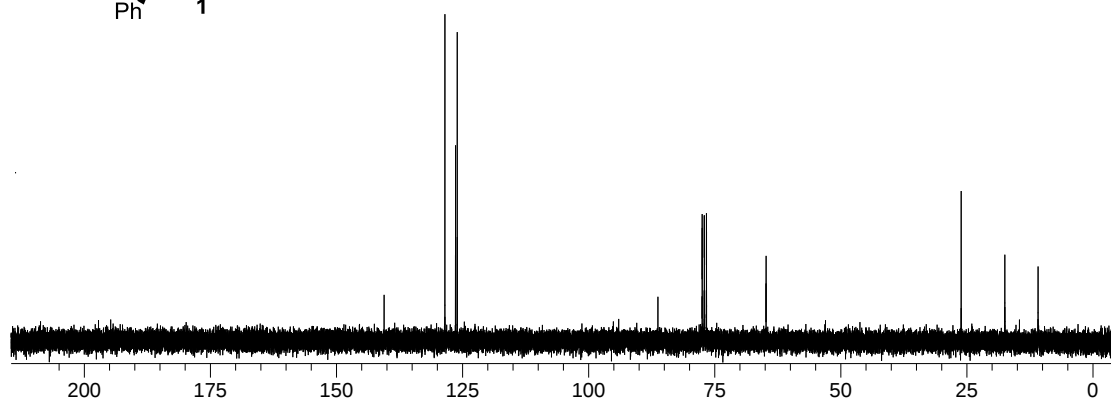
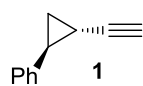
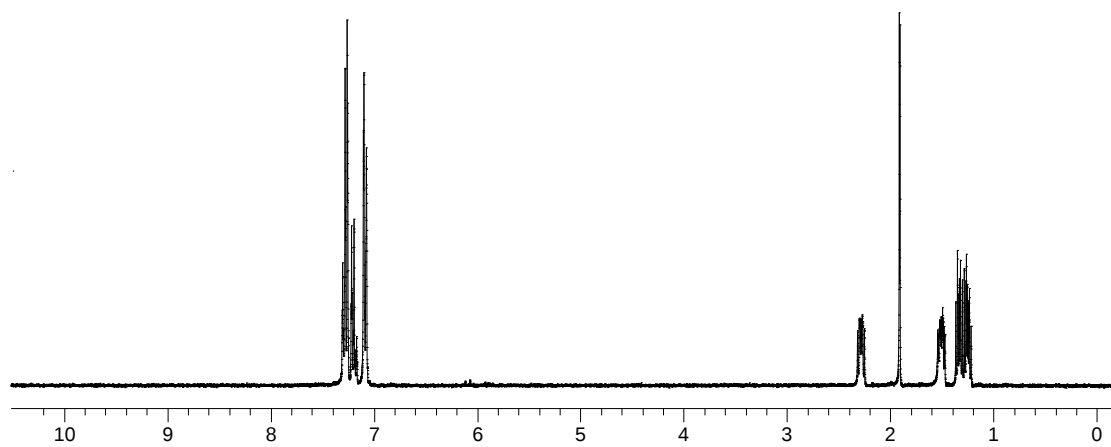
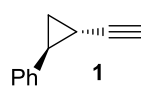
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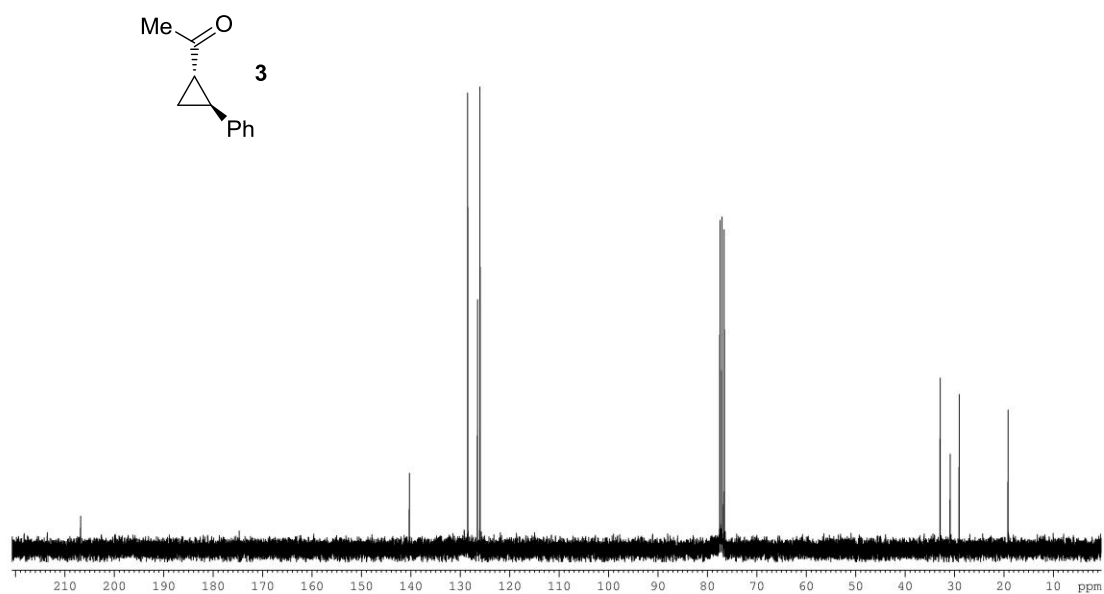
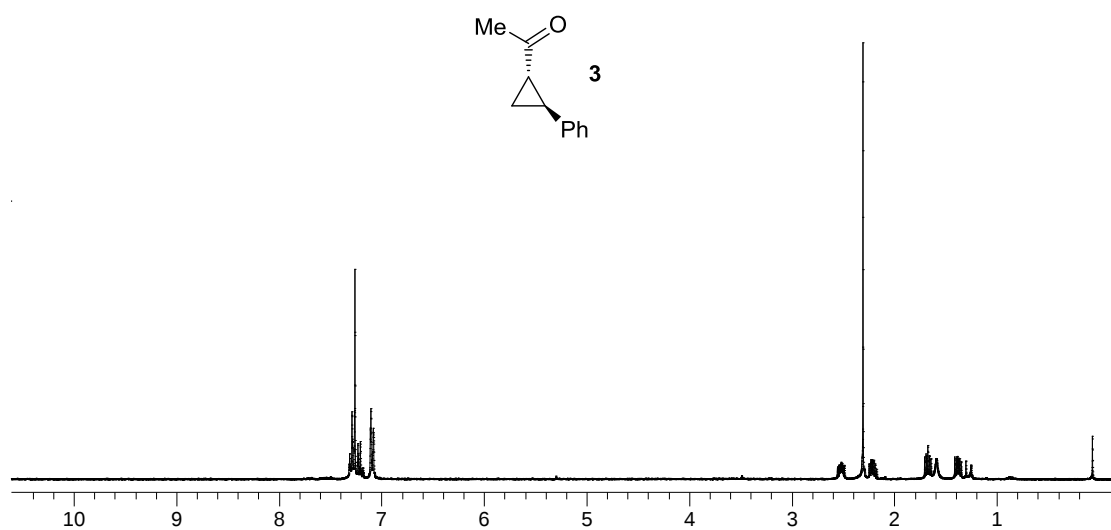
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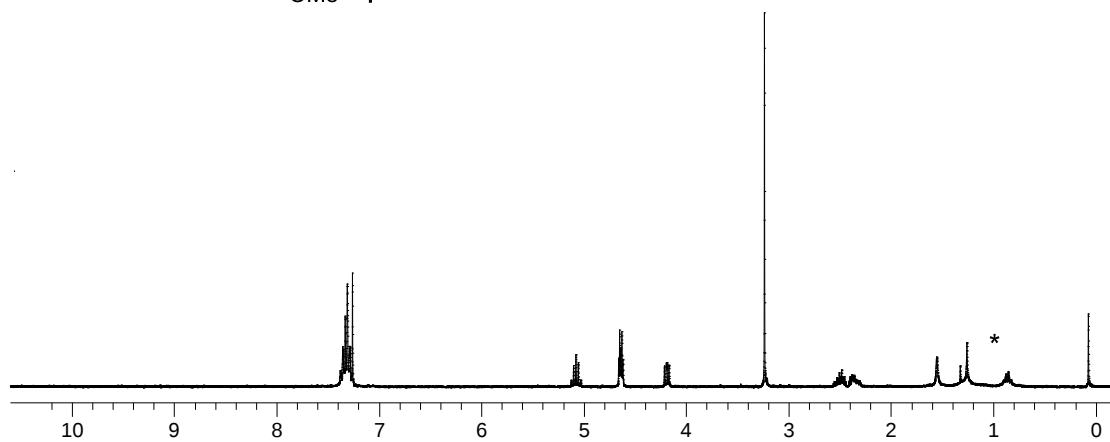
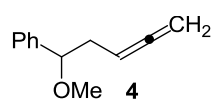


*: The peak around 50 ppm is a spike.

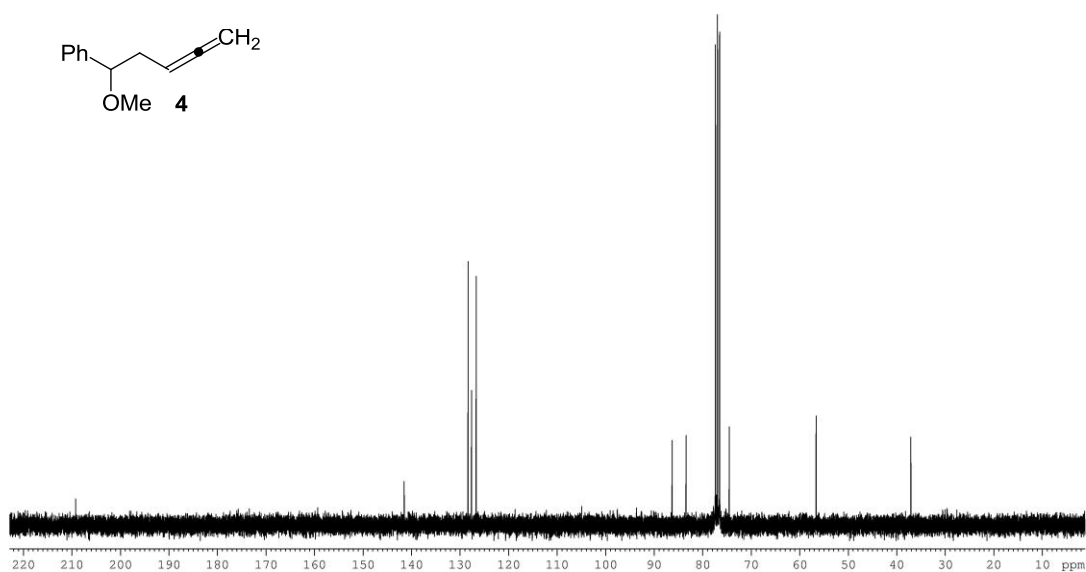
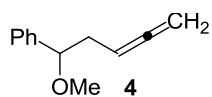
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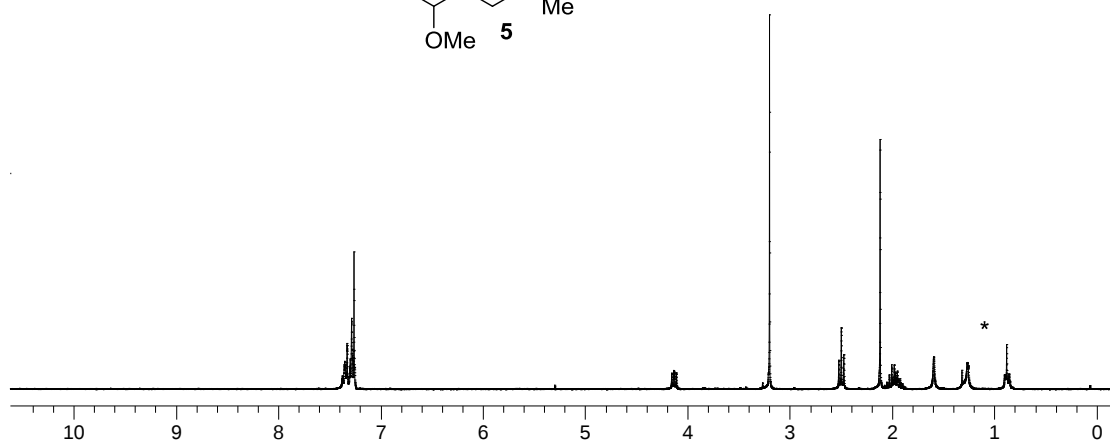
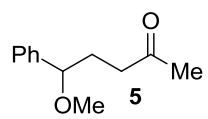




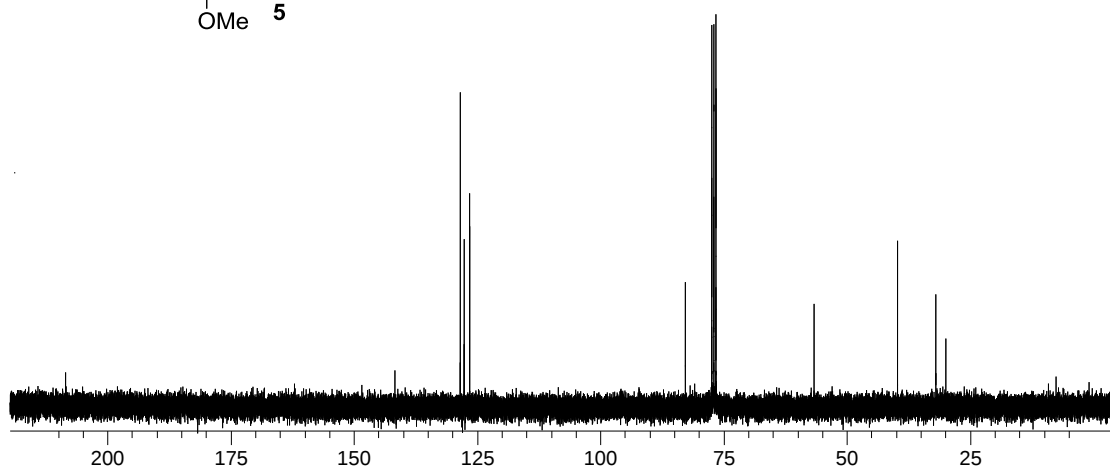
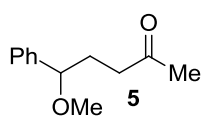


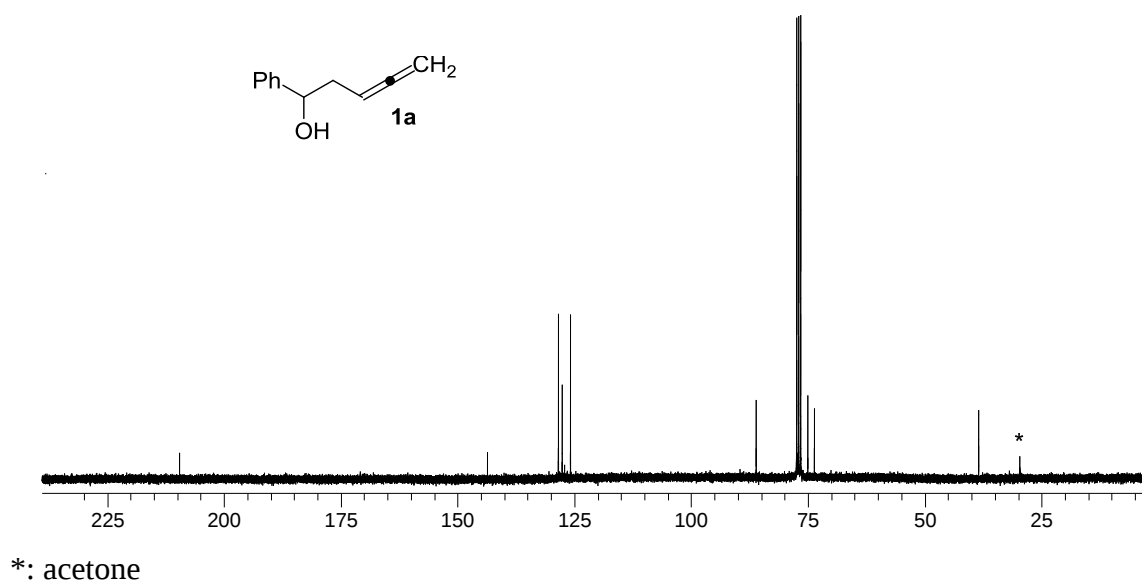
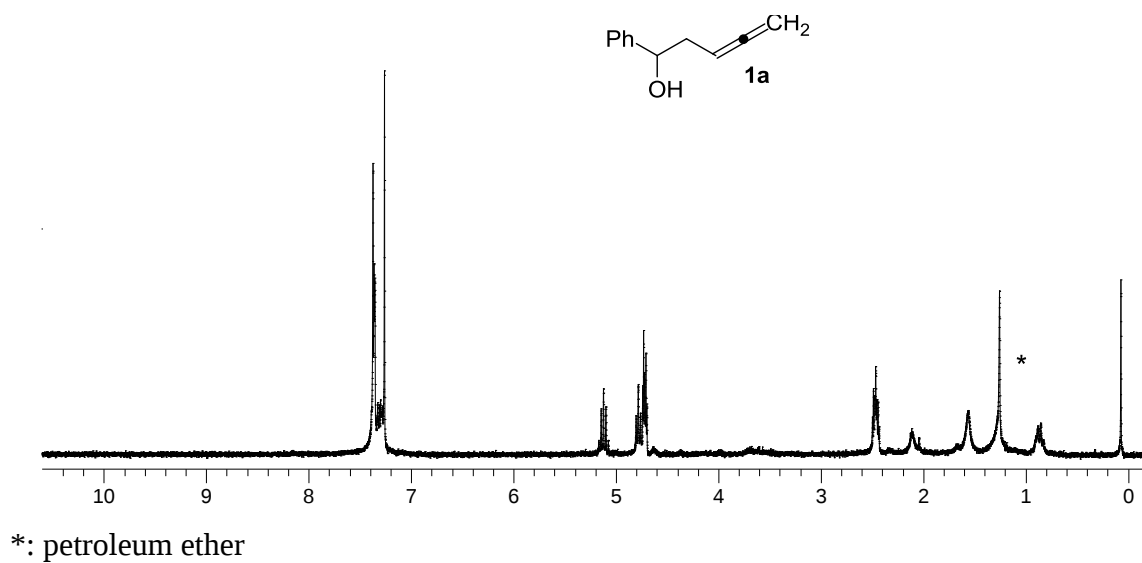
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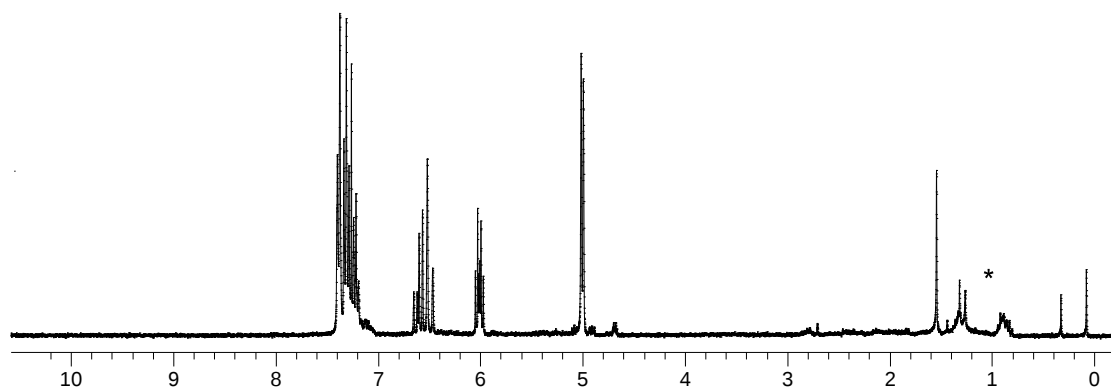
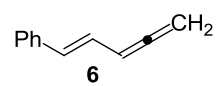




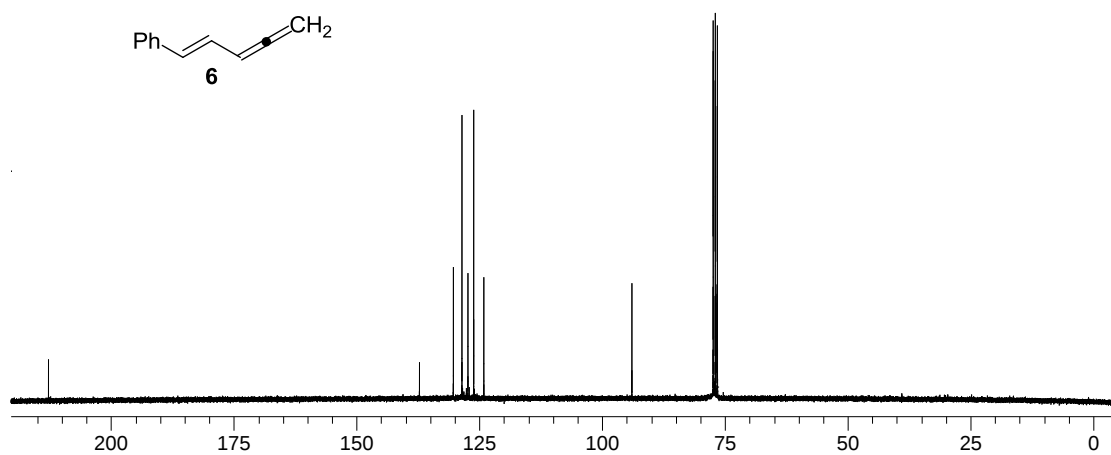
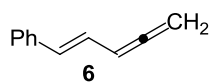
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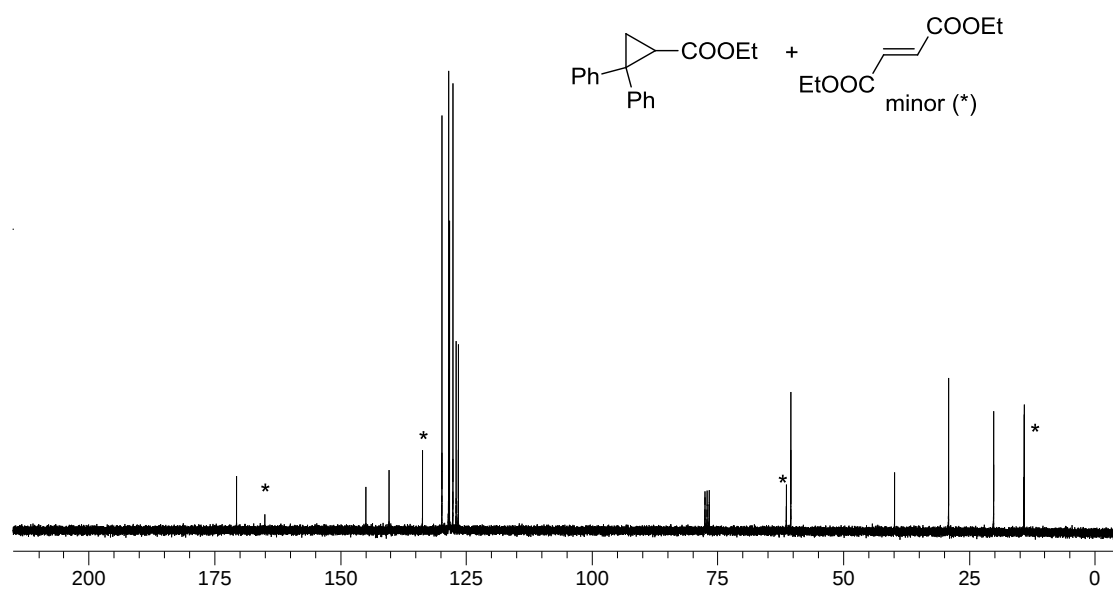
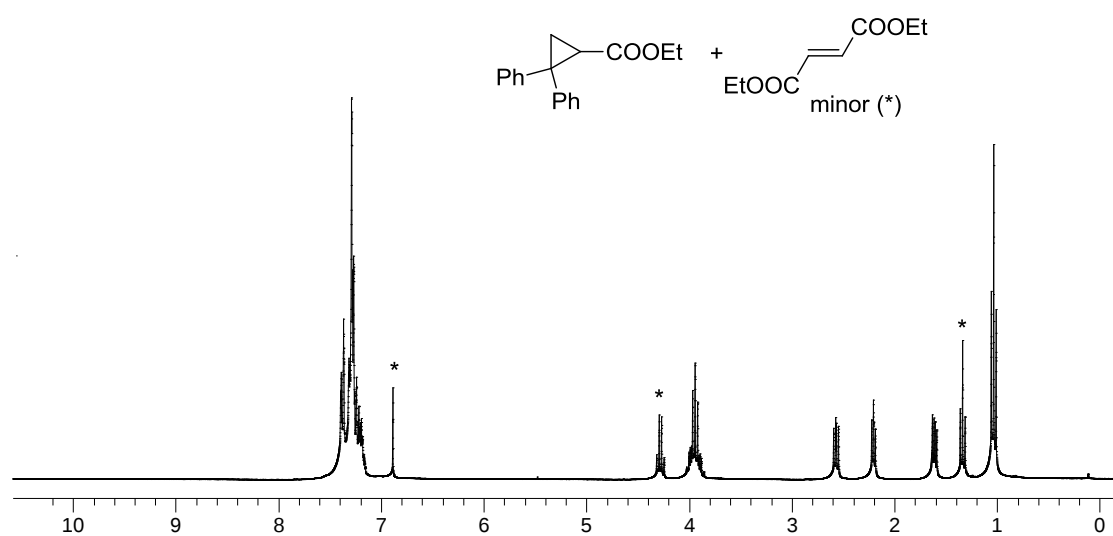




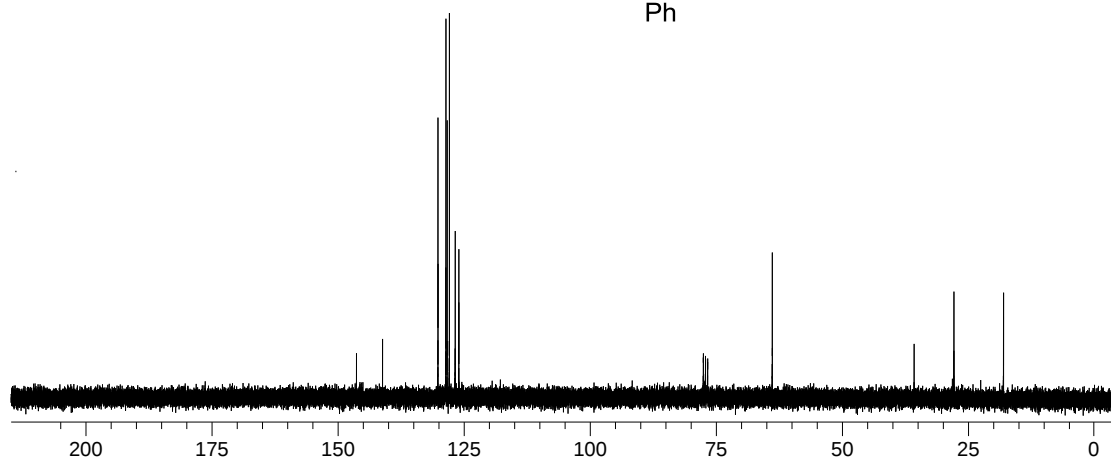
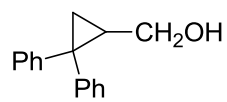
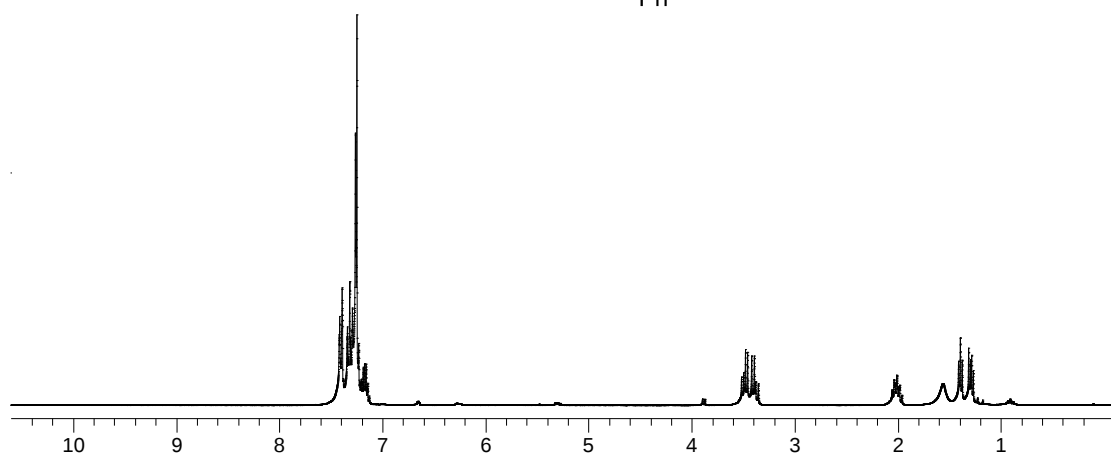
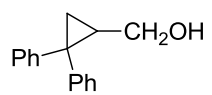


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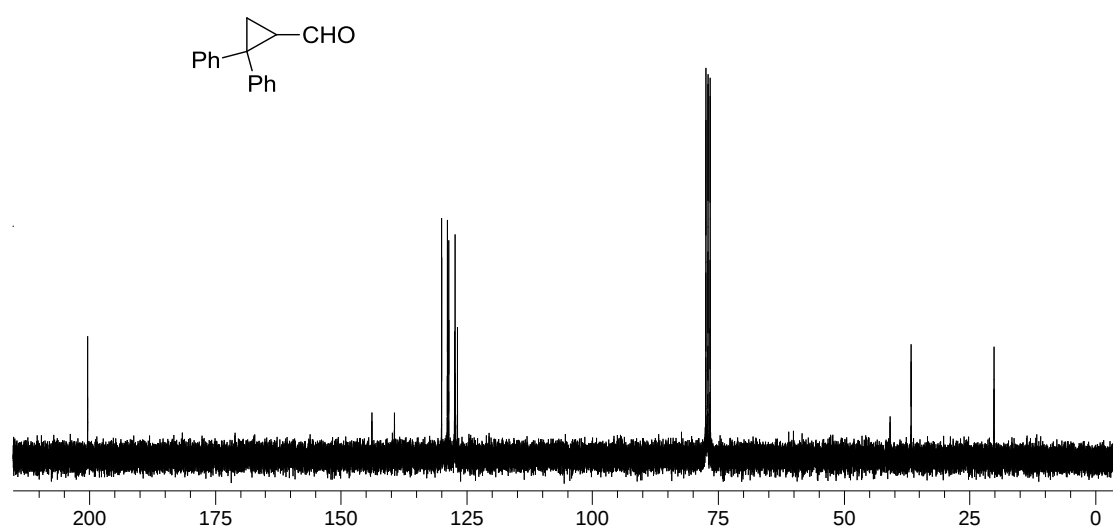
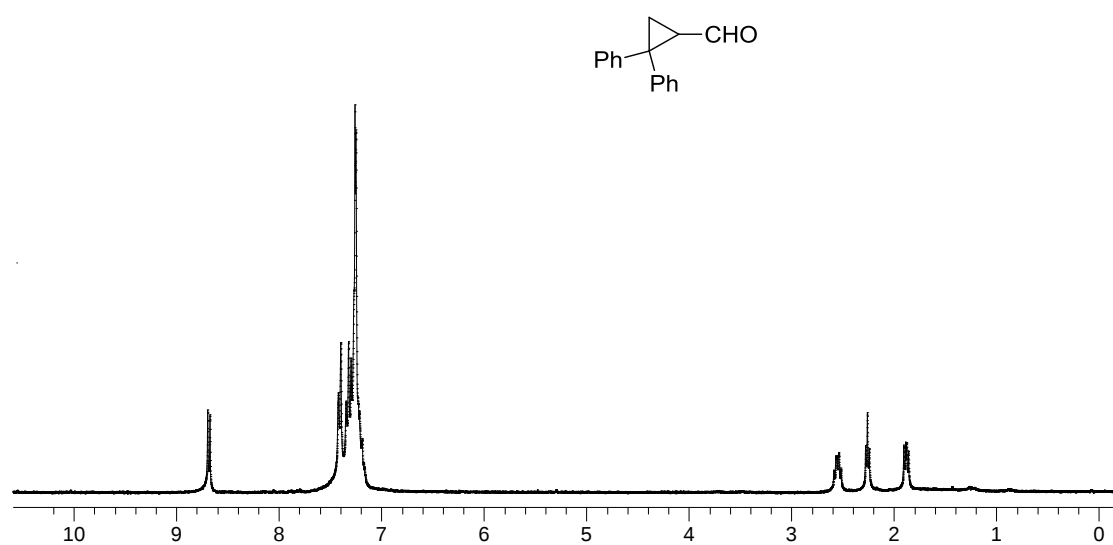




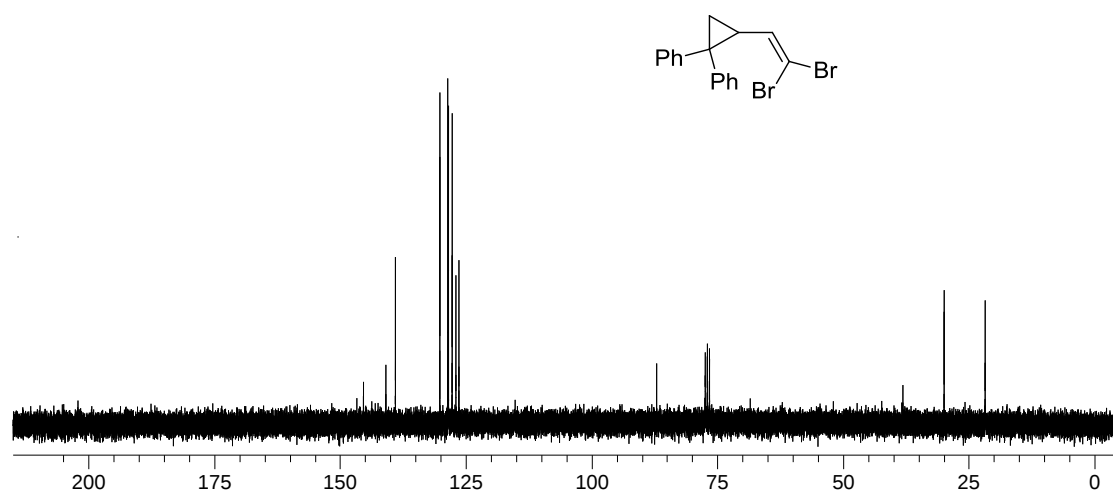
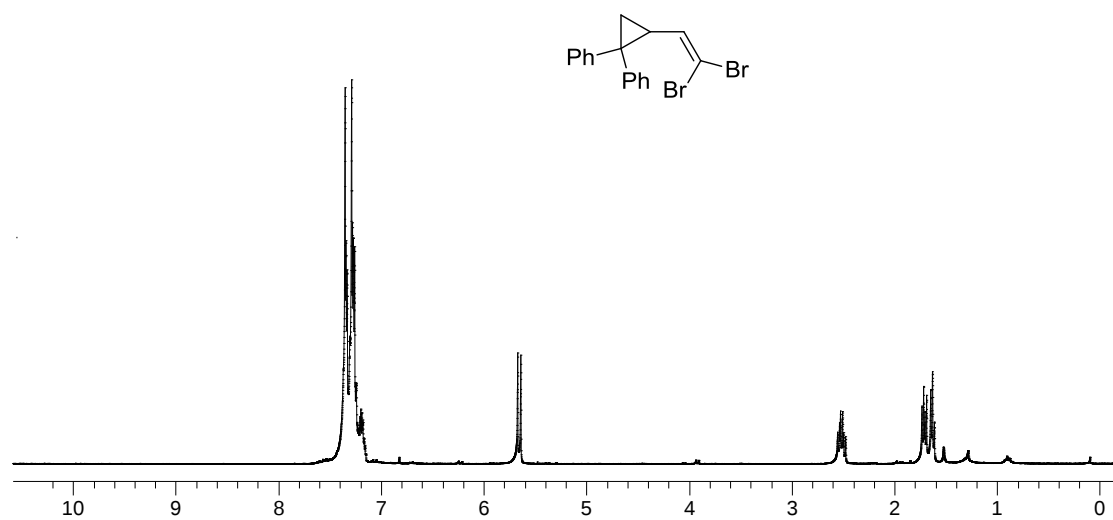
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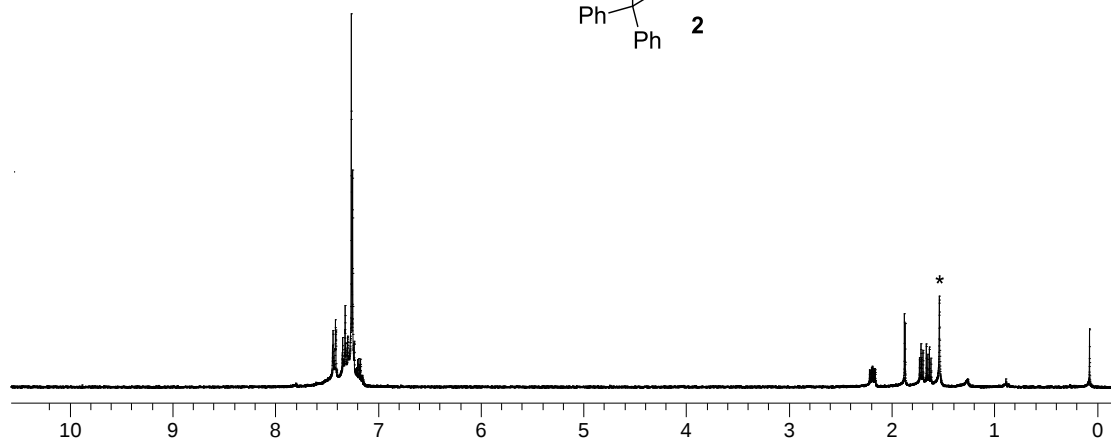
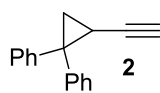


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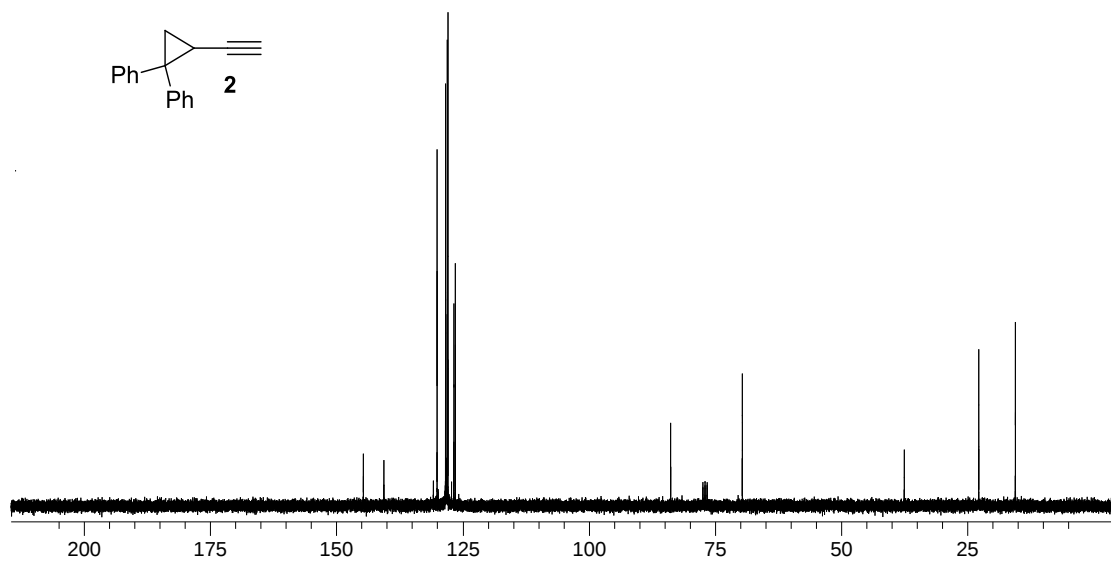
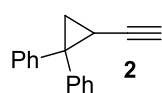


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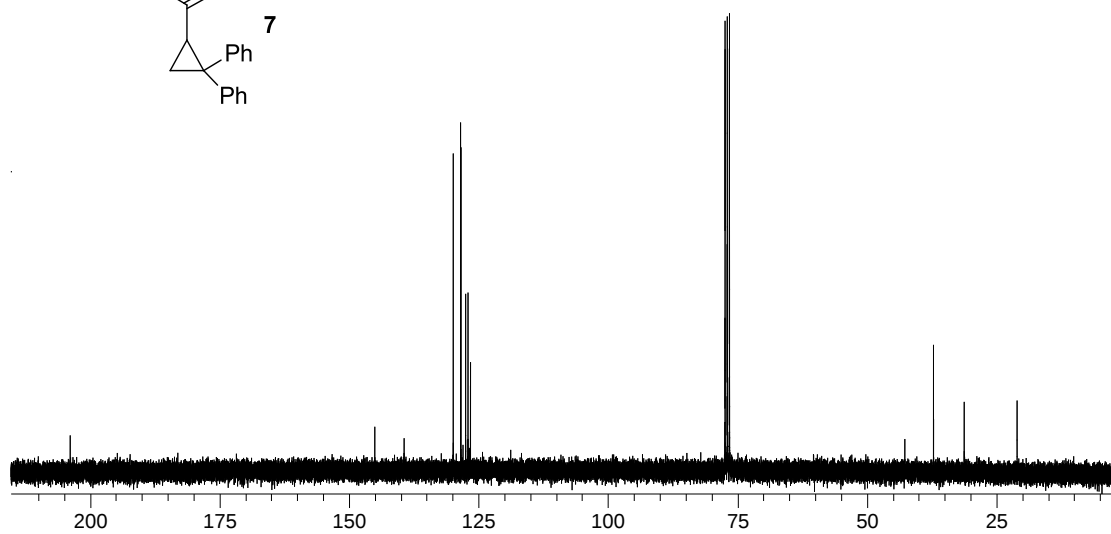
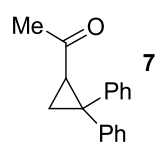
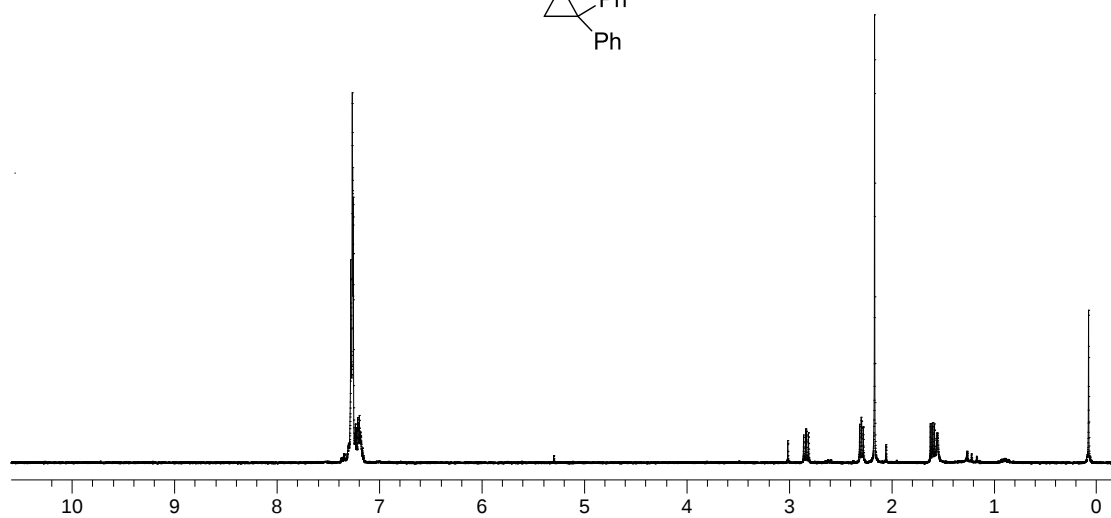
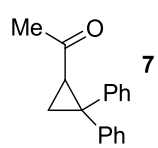


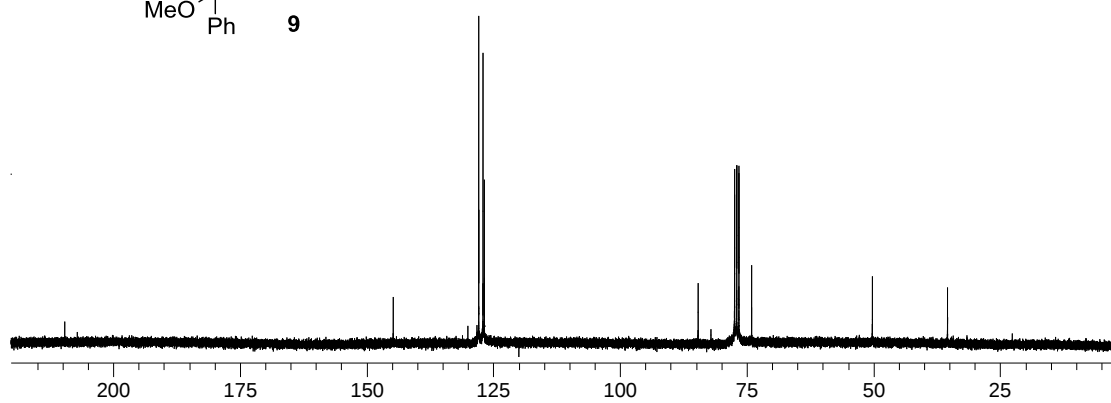
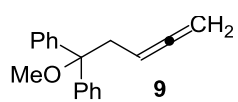
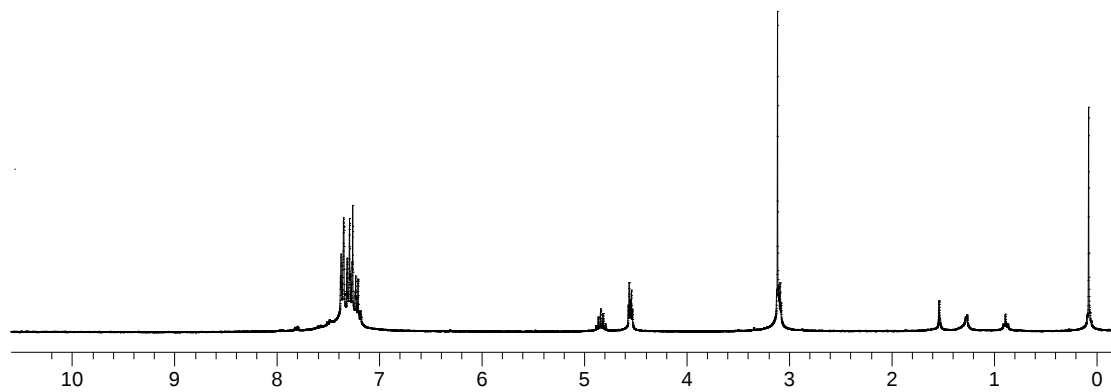
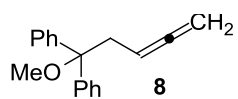


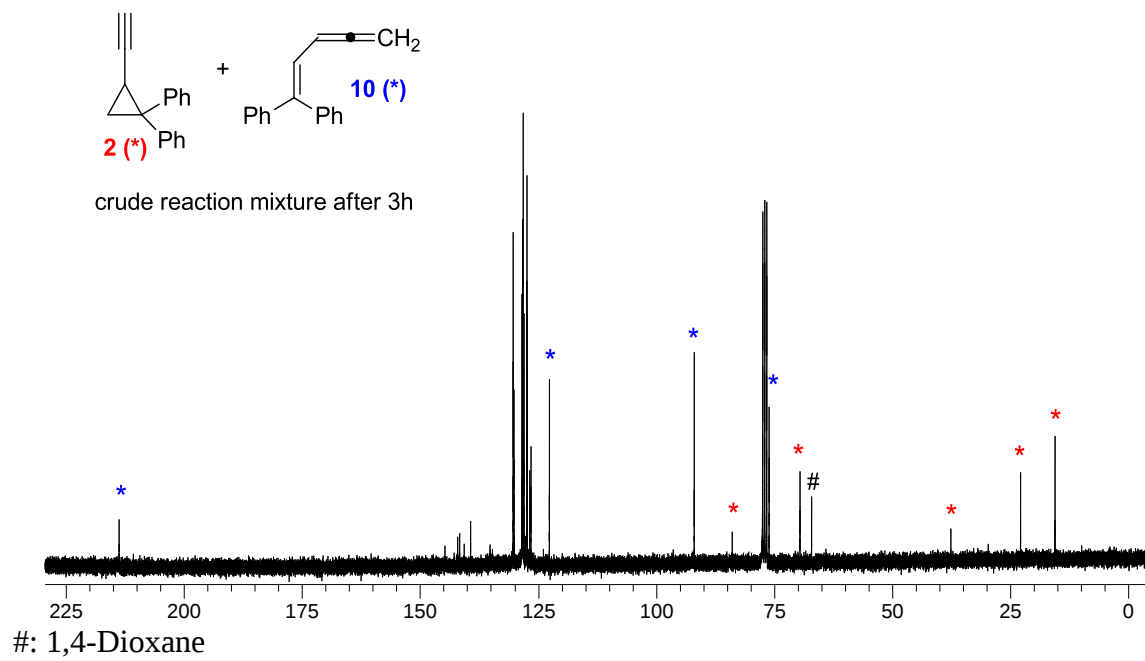
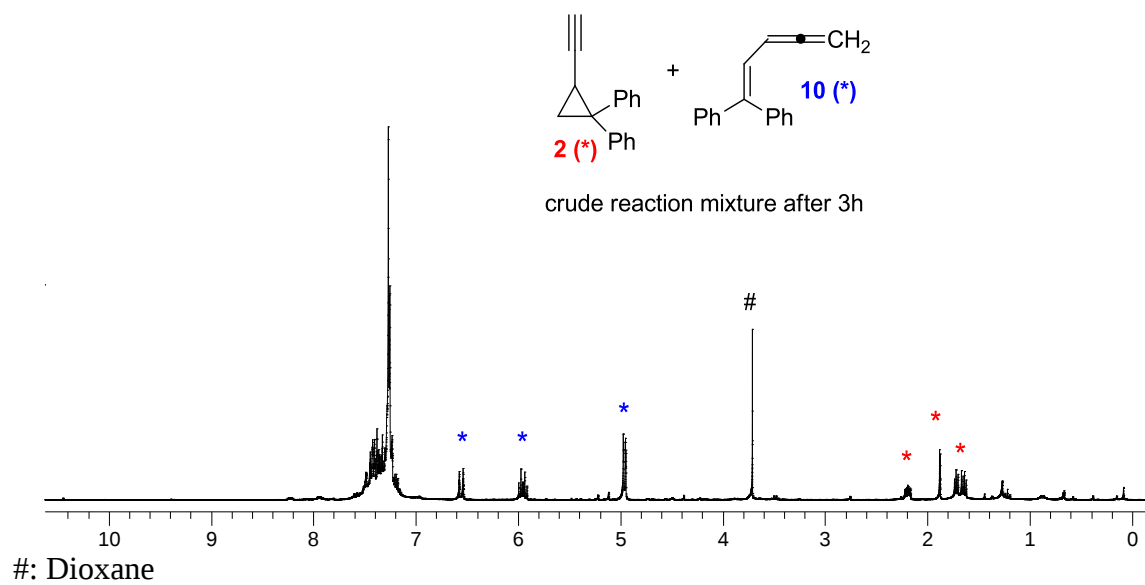
*: H₂O

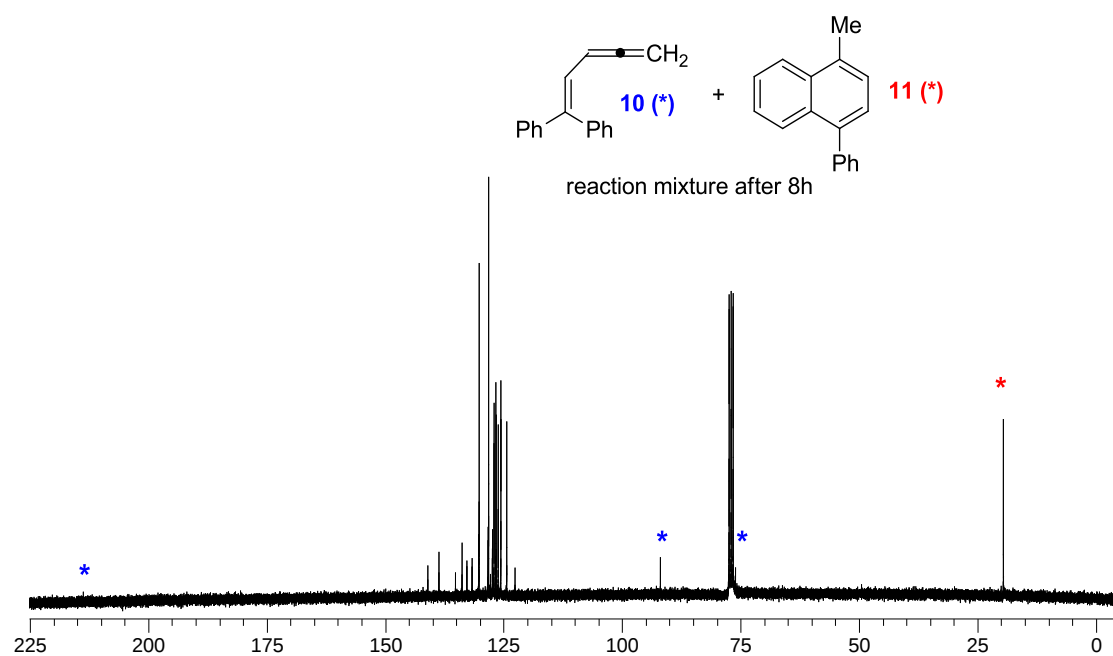
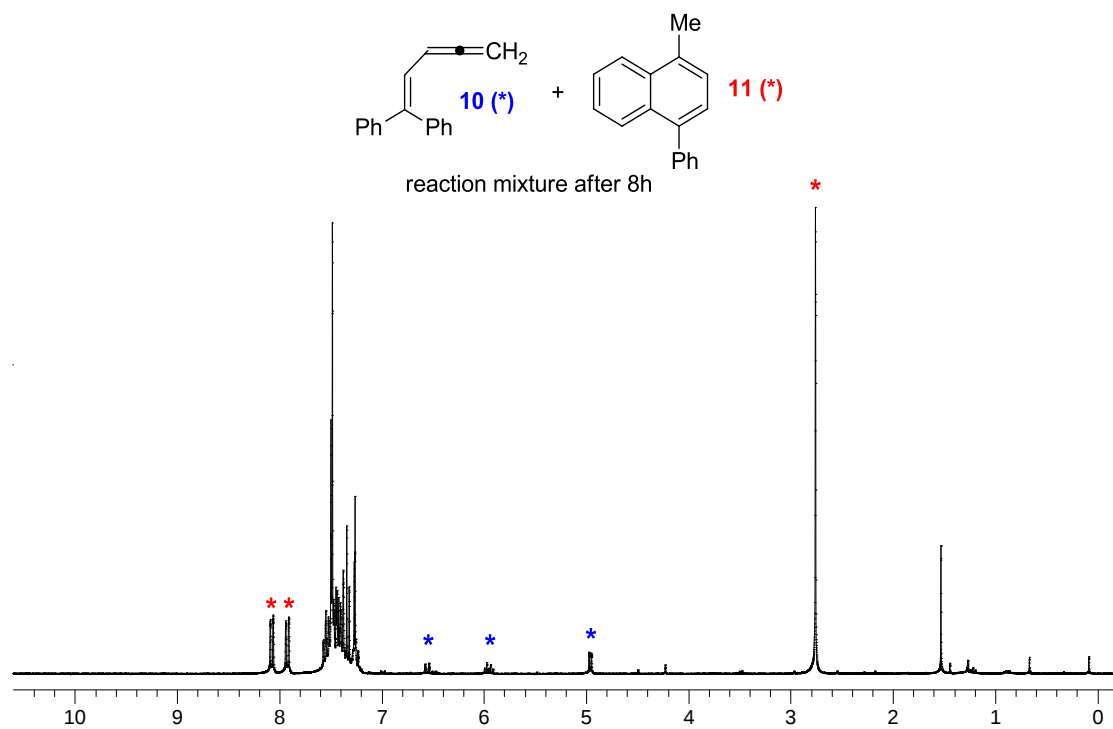


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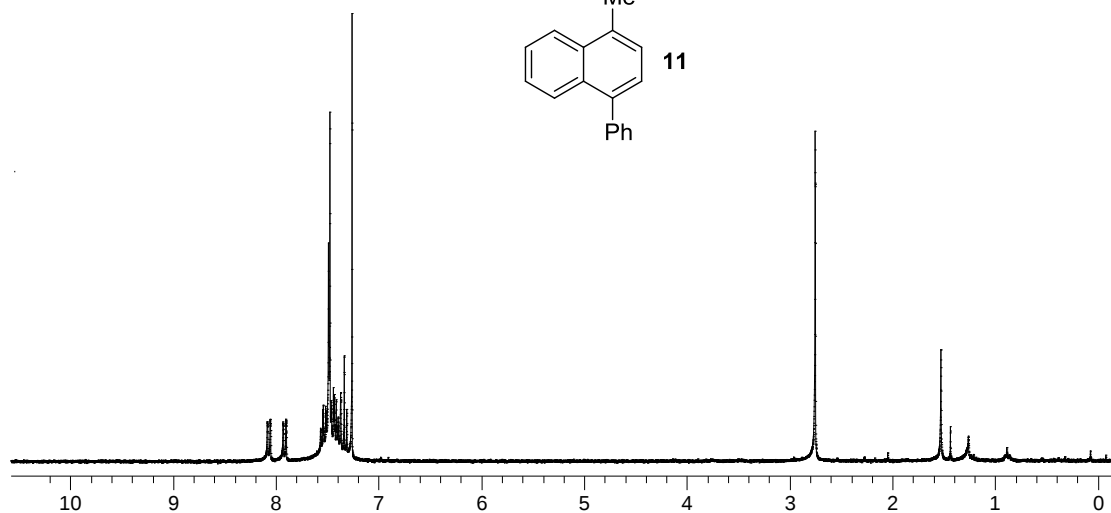
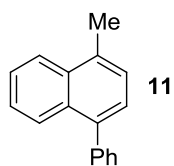
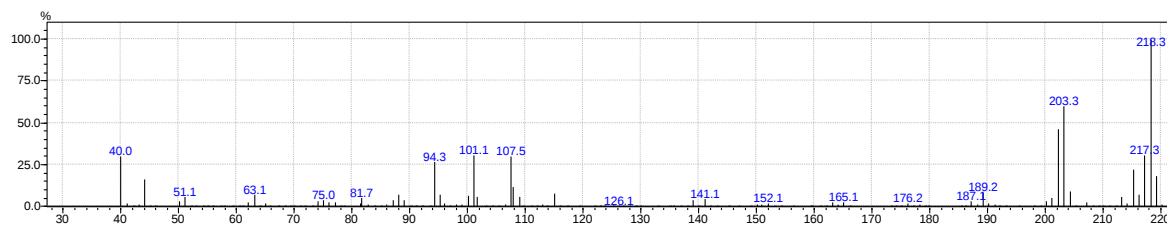
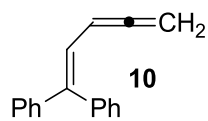




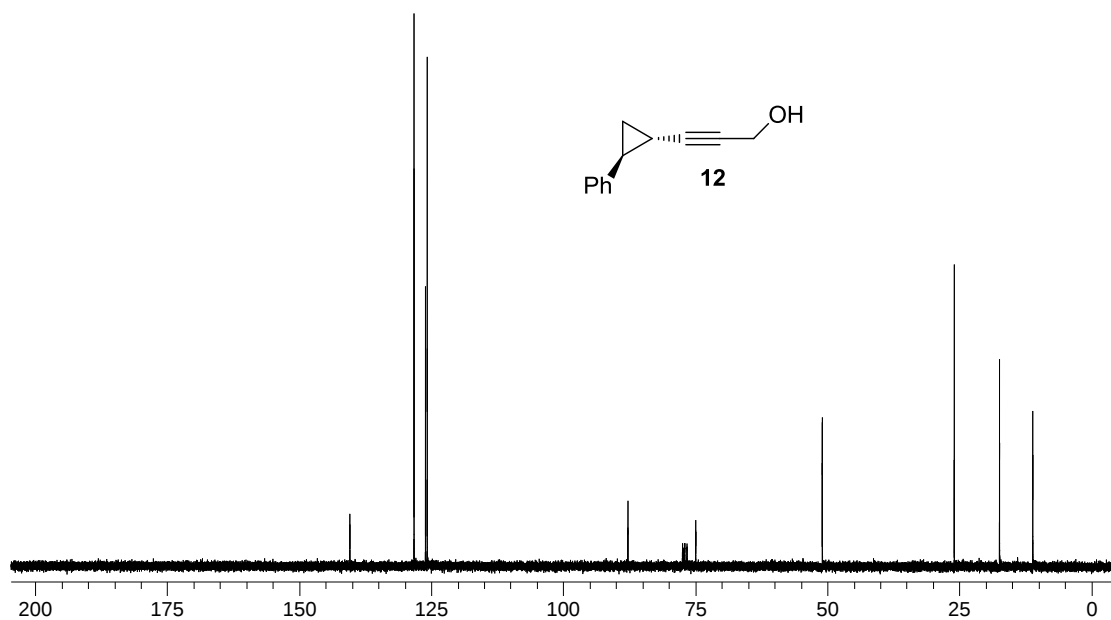
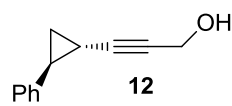
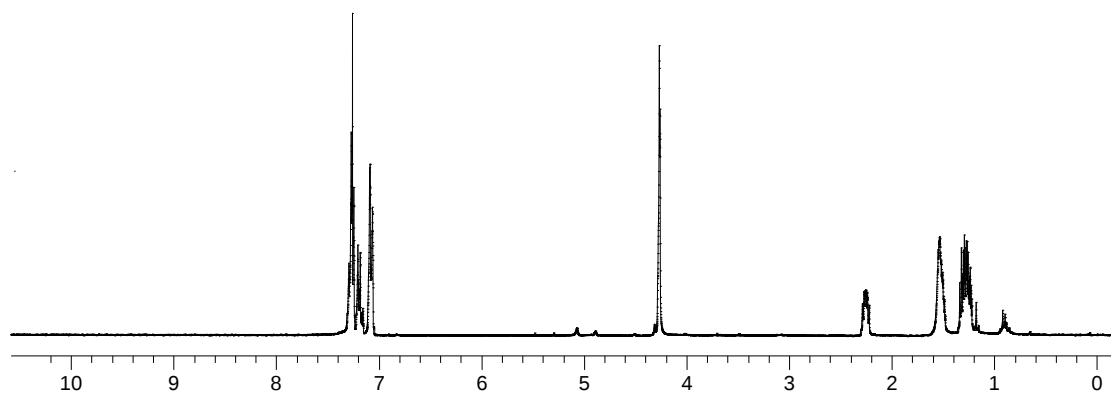
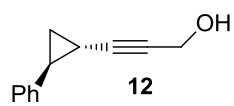




MS-spectrum of allenene **10** detected during the progress of isomerization of **2** to **11** by GC-MS.



S22



S23

