

## Supplementary Information

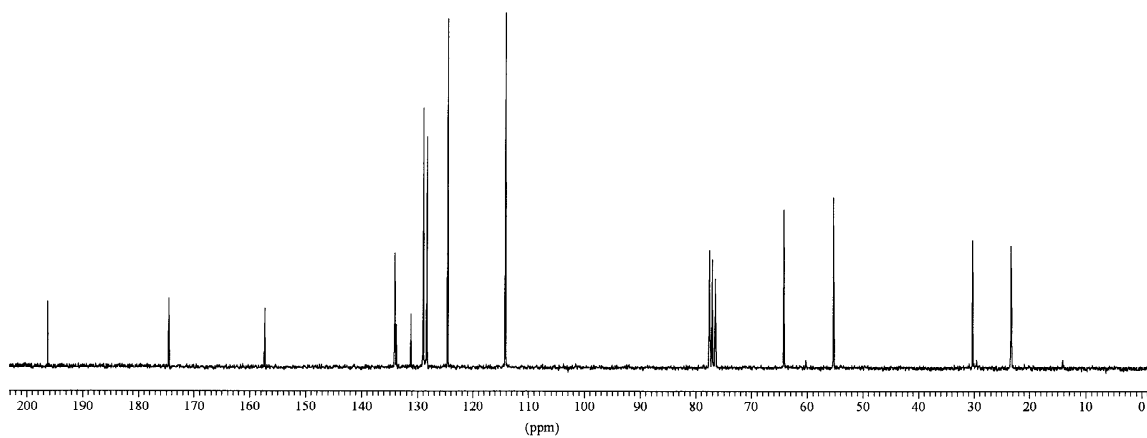
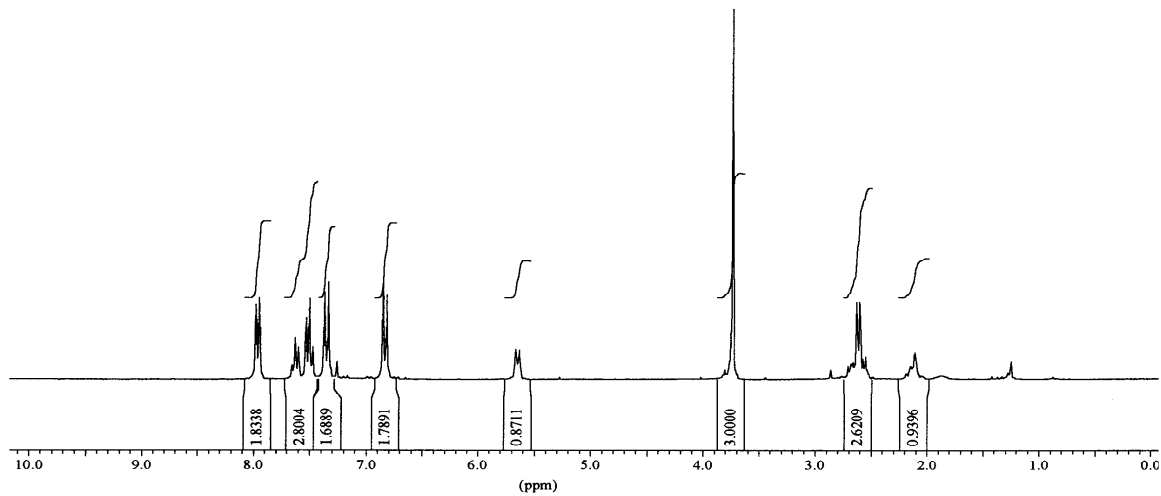
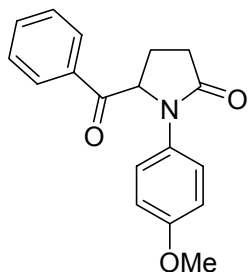
### Application of the PIFA-mediated alkyne amidation reaction to the formal synthesis of ( $\pm$ )-*clausenamide*.

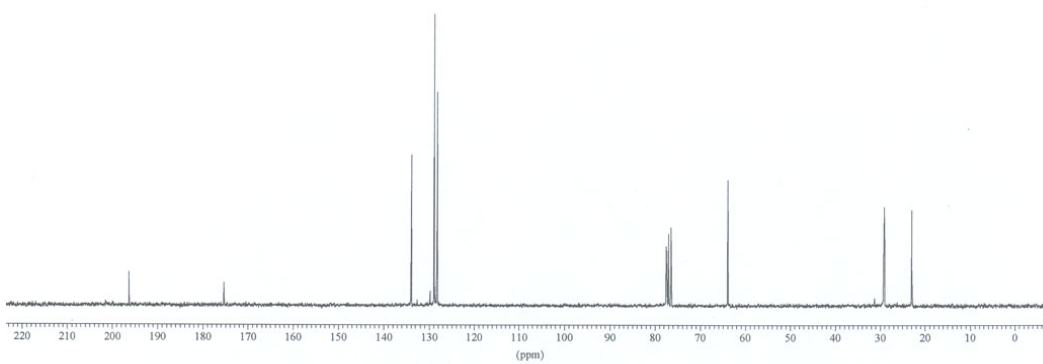
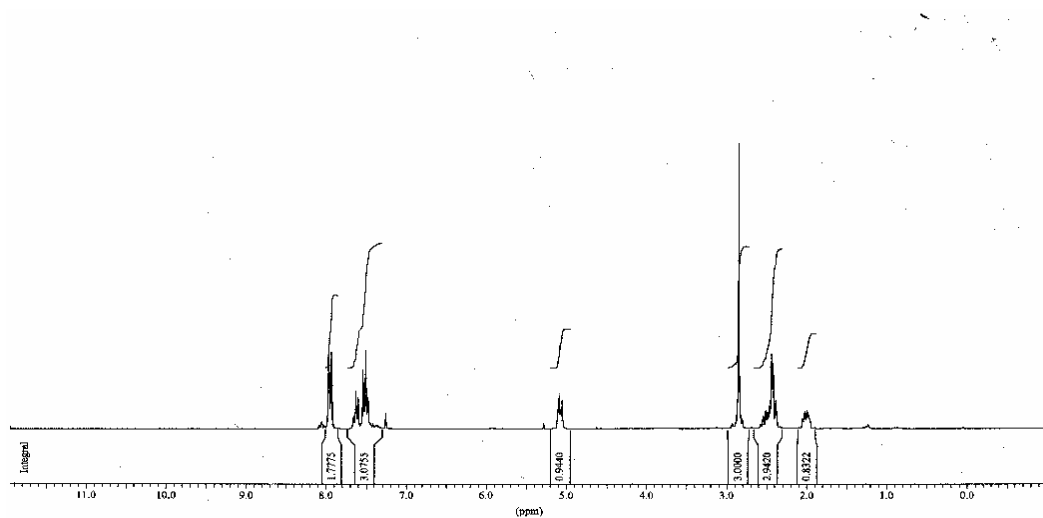
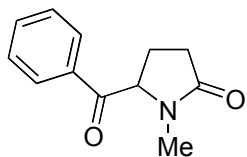
Imanol Tellitu,\* Sonia Serna, and Esther Domínguez\*

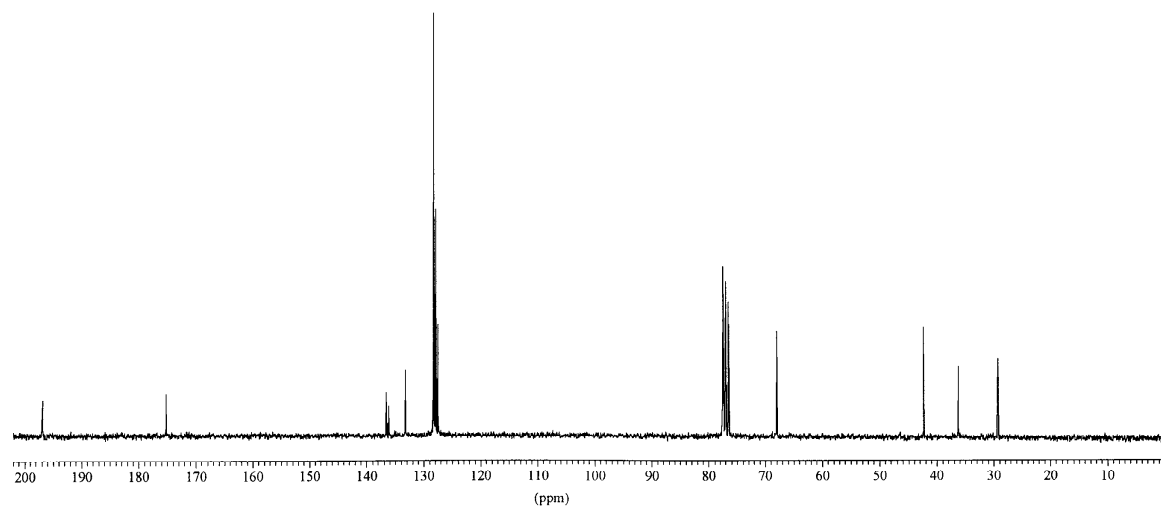
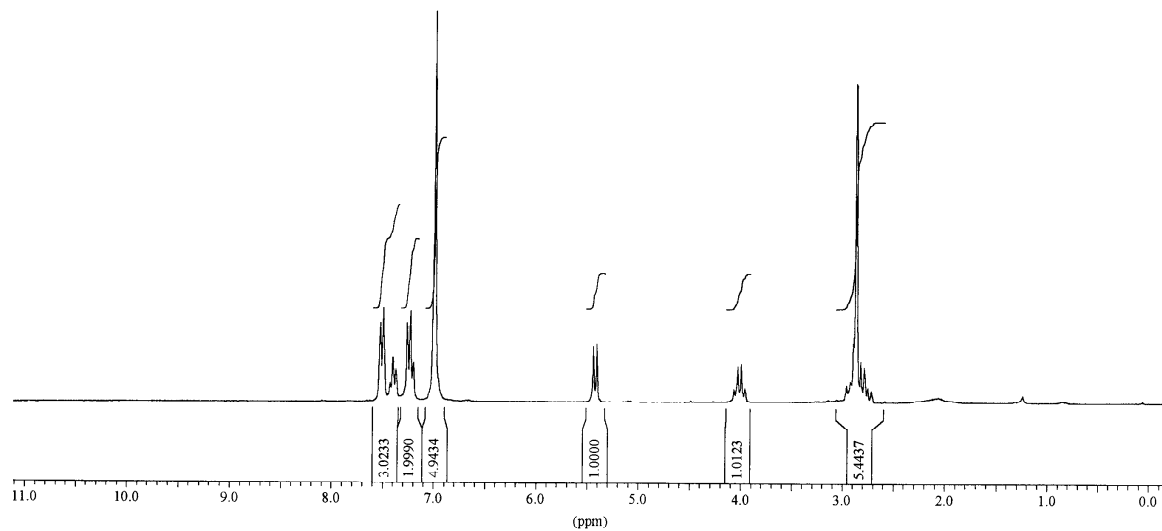
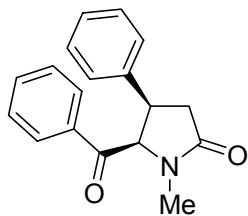
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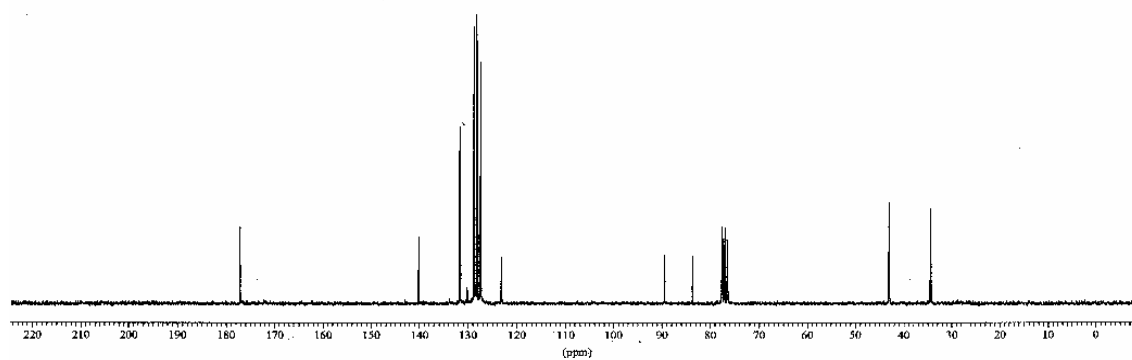
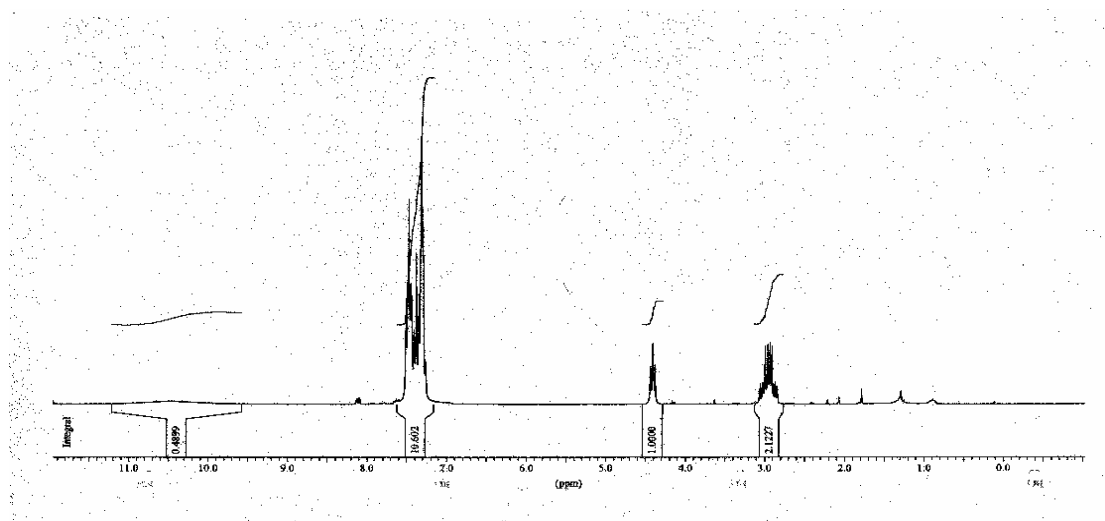
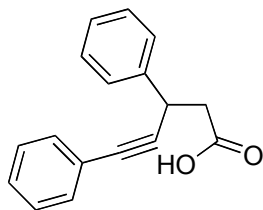
**Dedicated to Professor Benito Alcaide on the occasion of his 60<sup>th</sup> birthday**

Copies of proton and carbon 13 spectra **2a,b**, **8**, **9** and **10cis** are included.

**5-Benzoyl-N-(4-methoxyphenyl)pyrrolidin-2-one (2a).**

**5-Benzoyl-N-methylpyrrolidin-2-one (2b).**

**5-Benzoyl-*N*-methyl-4-phenylpyrrolidin-2-one (10*cis*).**

**3,5-Diphenylpentynoic acid (8).**

**3,5-Diphenyl-N-methyl-4-pentynamide (9).**