

Supplementary Information for:

Synthesis of the tricyclic core of manzamine A

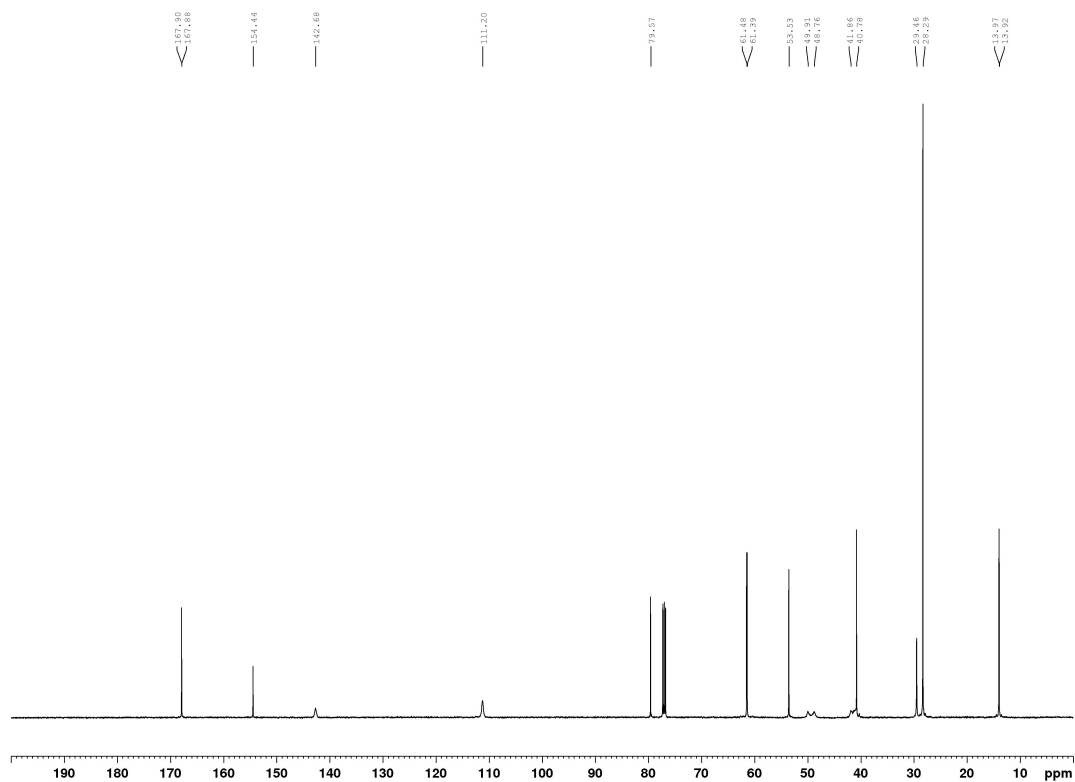
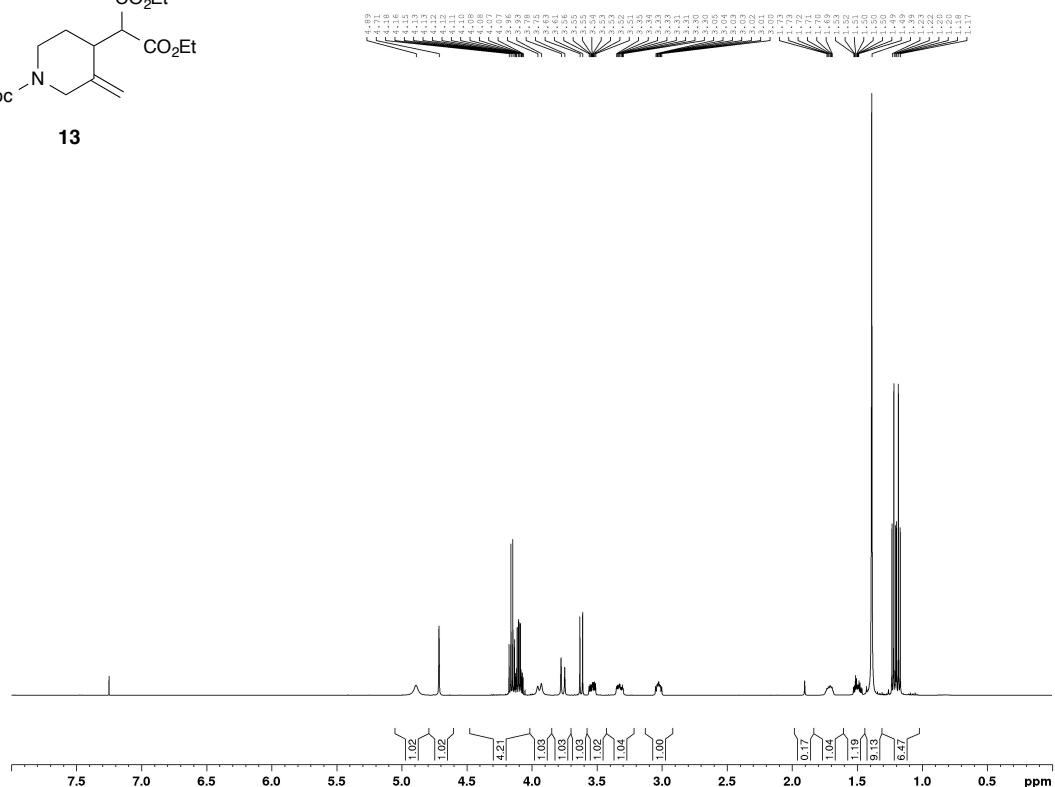
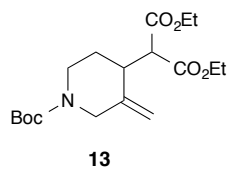
Ravindra Pathak, Benjamin C. Dobson, Nandita Ghosh, Khalid A. Ageel, Madeha Alshawish, Rungroj Saruengkhanphasit and Iain Coldham*

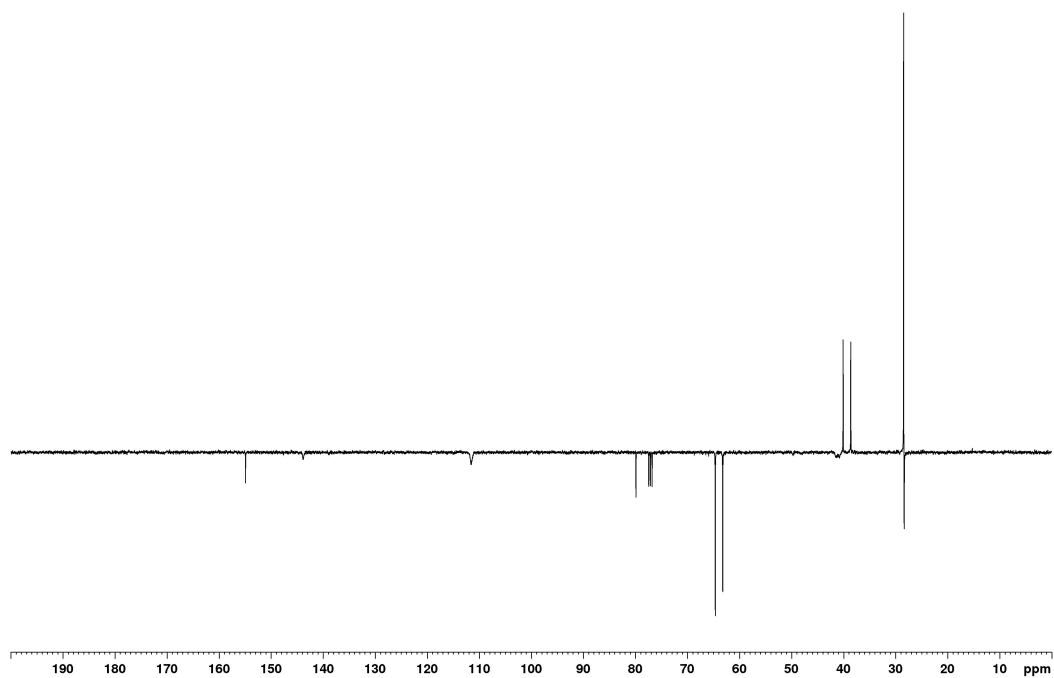
Department of Chemistry, University of Sheffield, Brook Hill, Sheffield, S3 7HF, UK

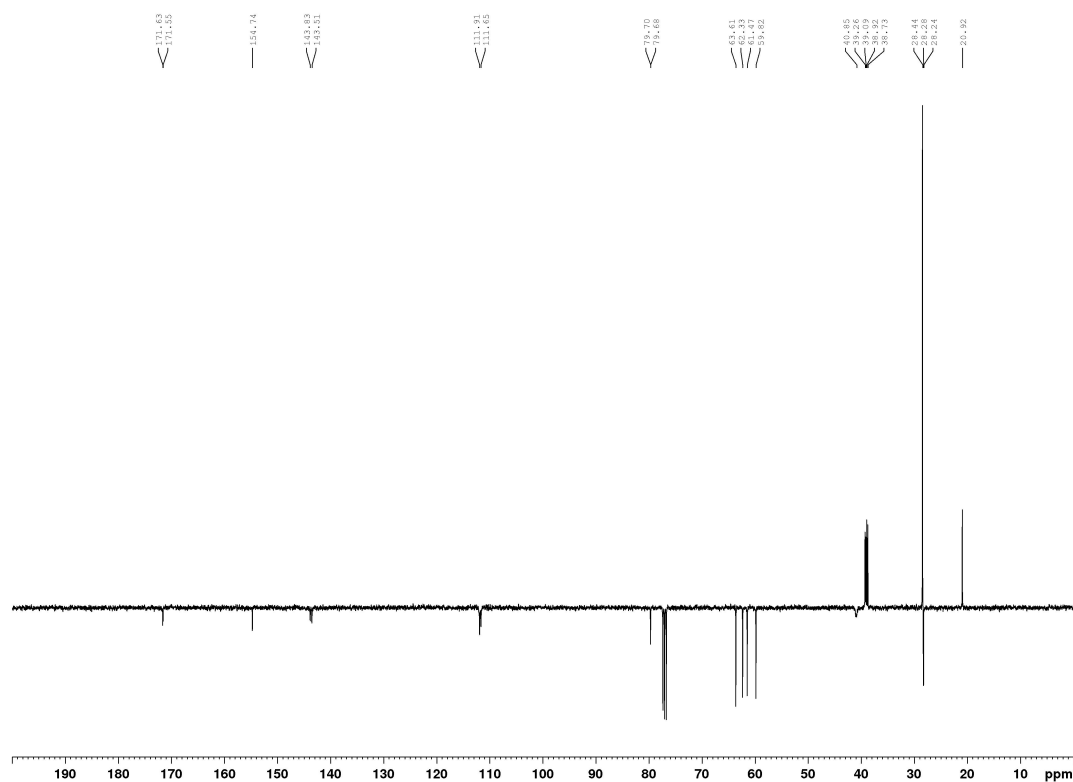
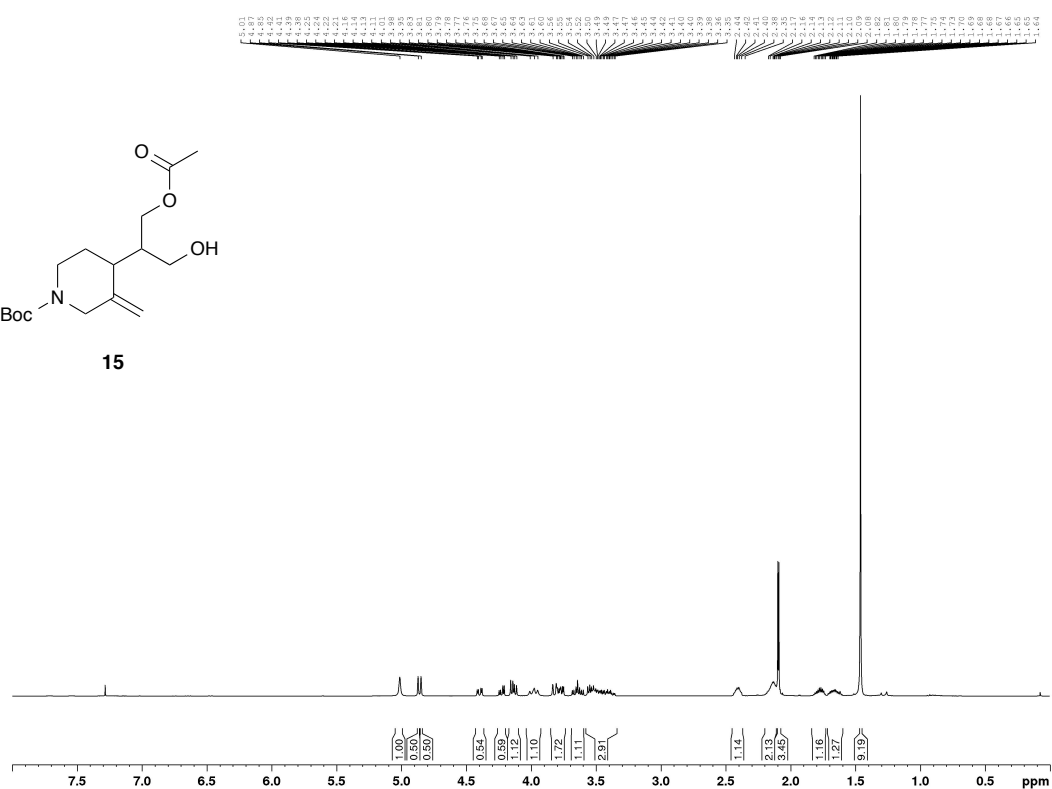
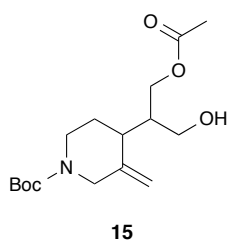
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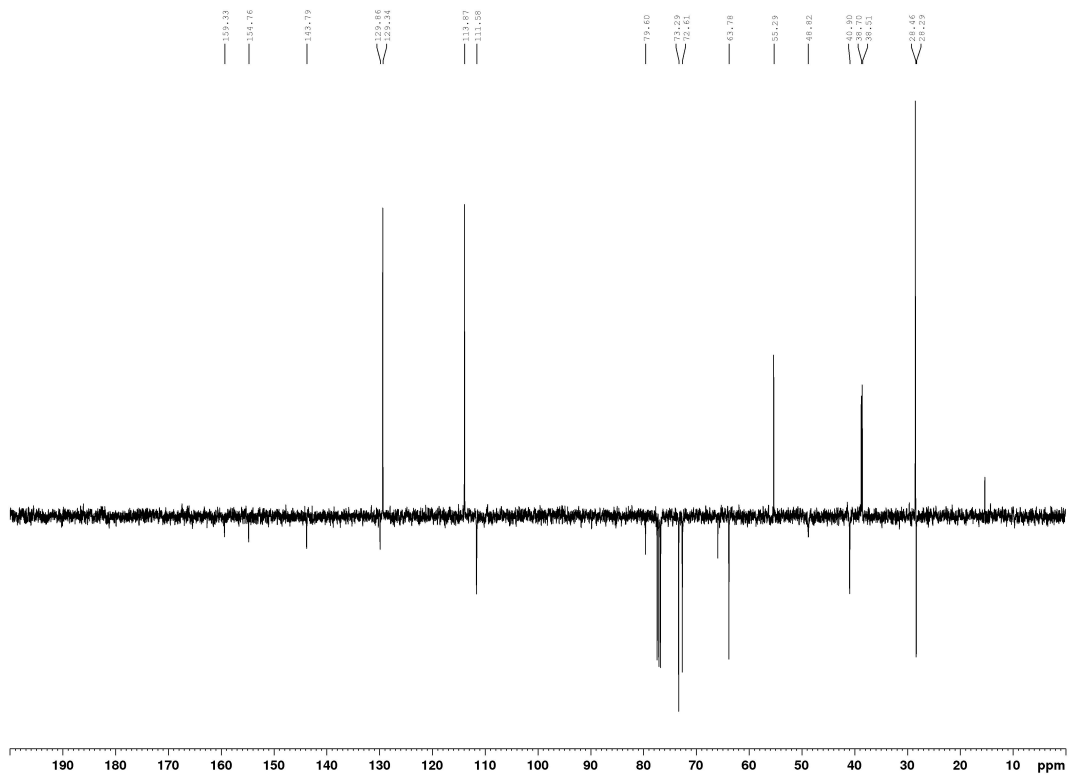
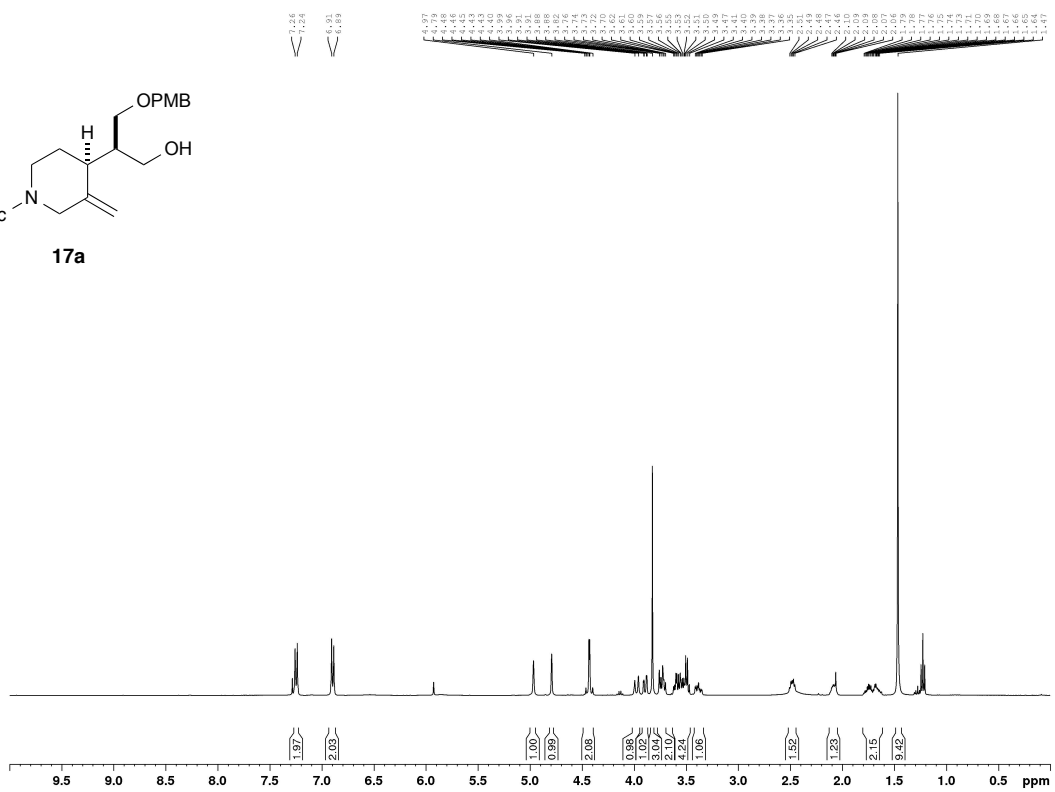
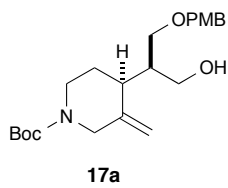
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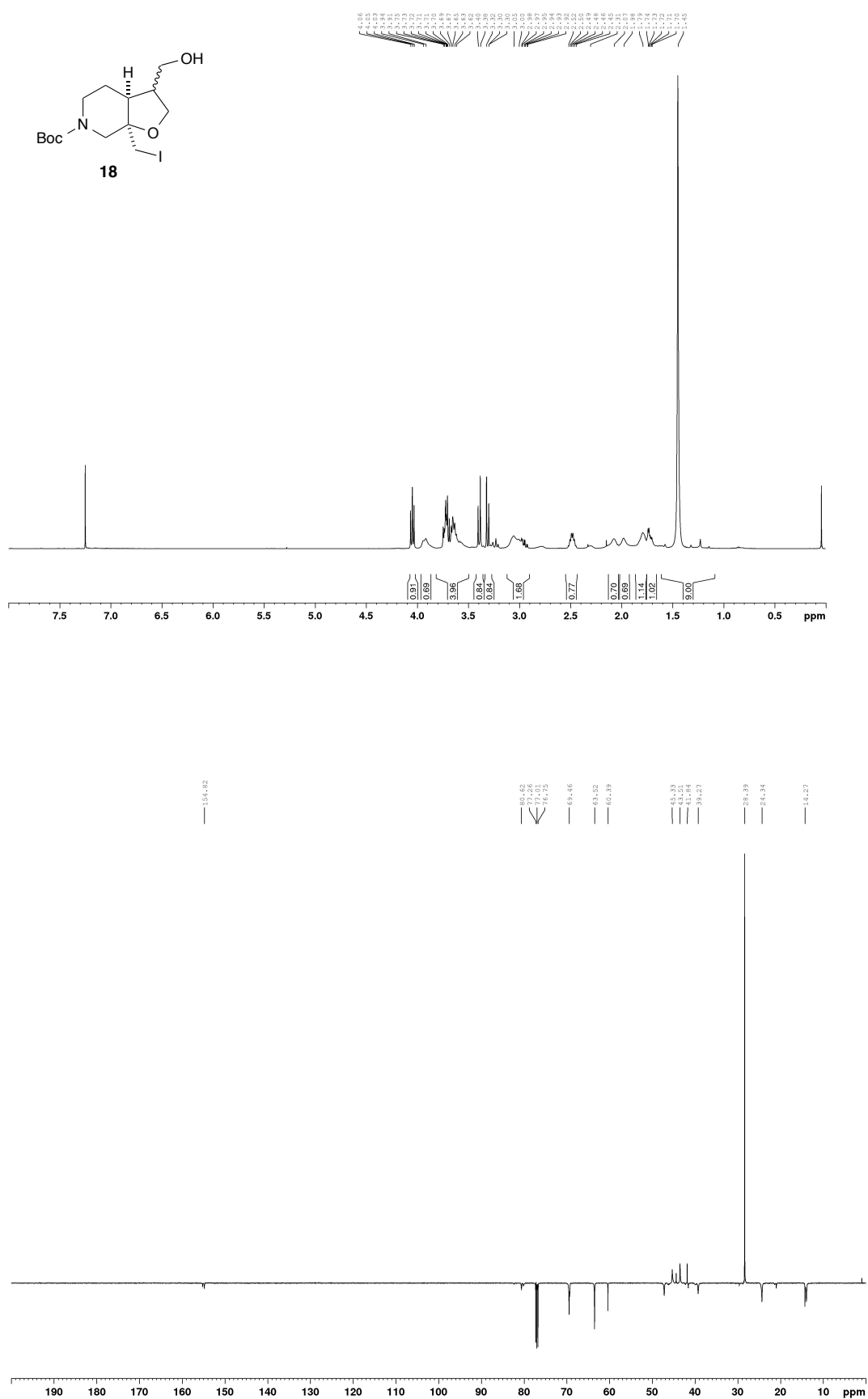
NMR Spectra for compounds **13–15**, **17a**, **18–19**, **21–29**, **31–35** are given below:

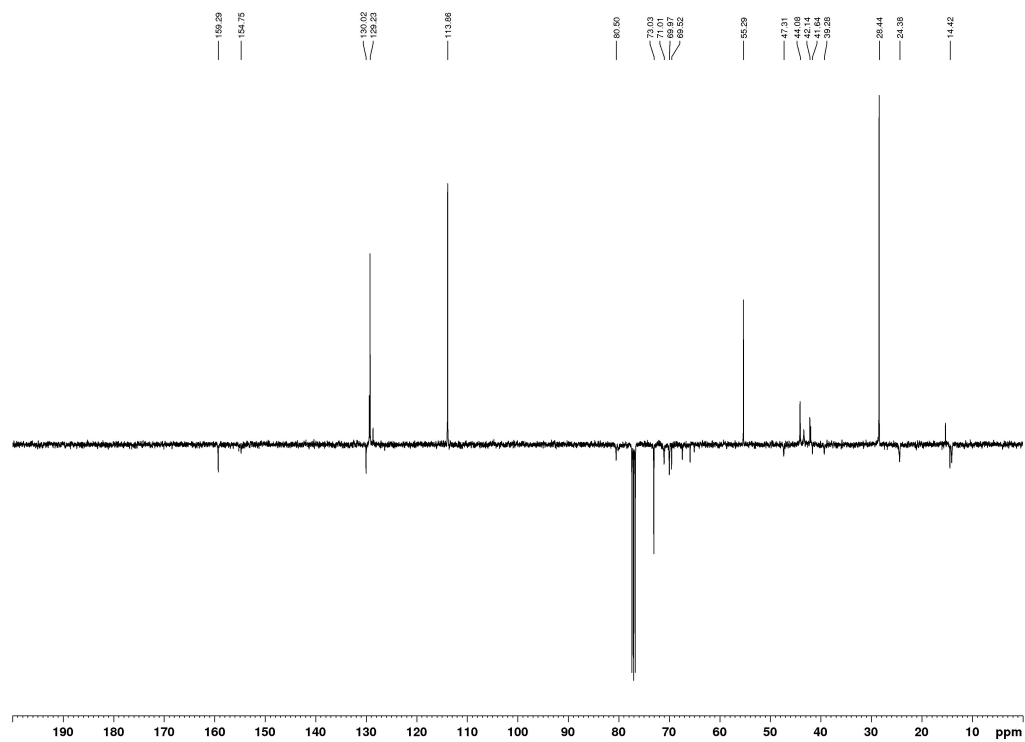
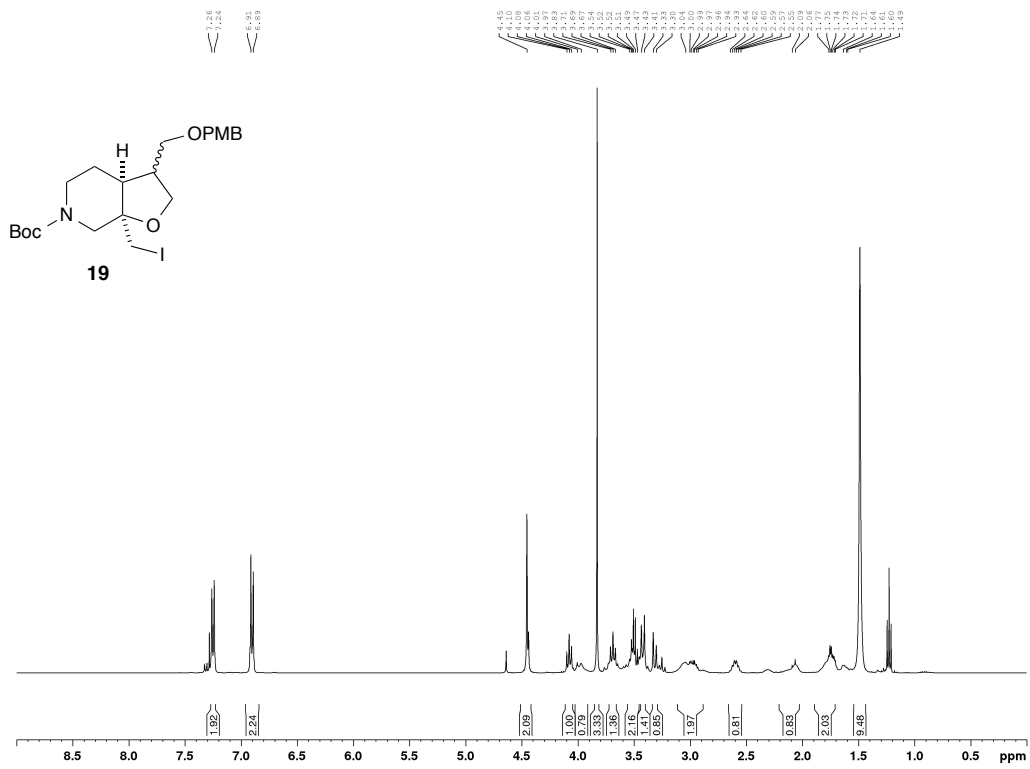


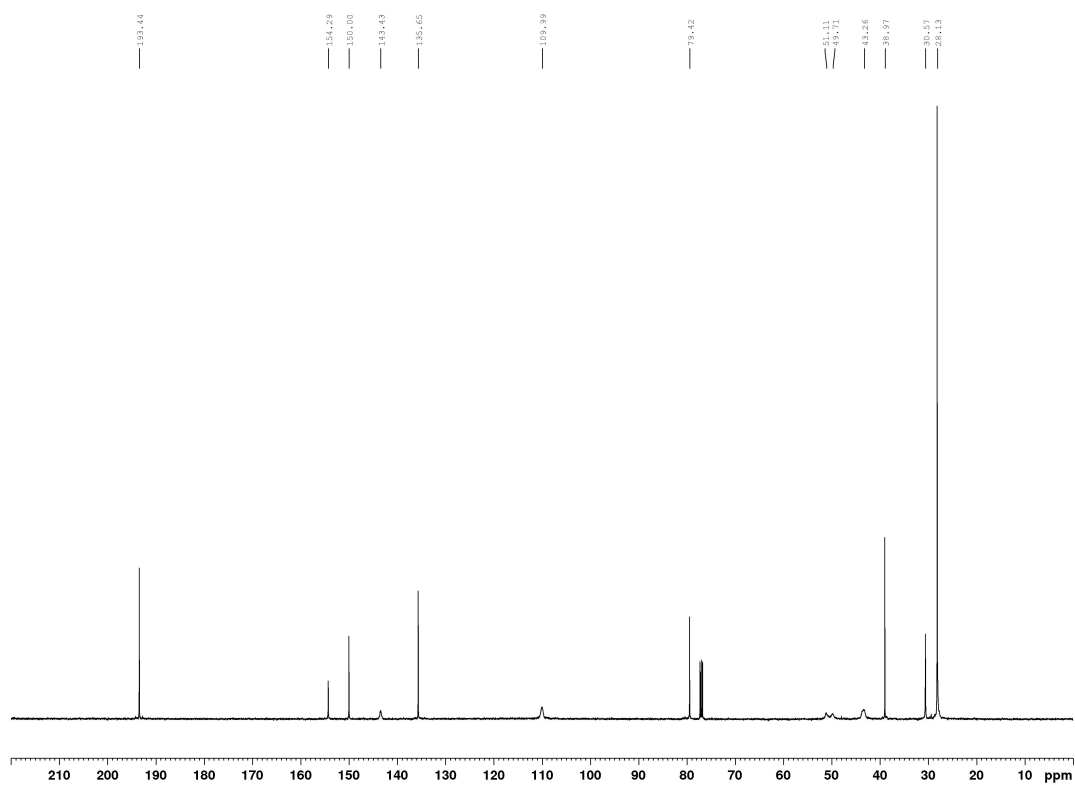
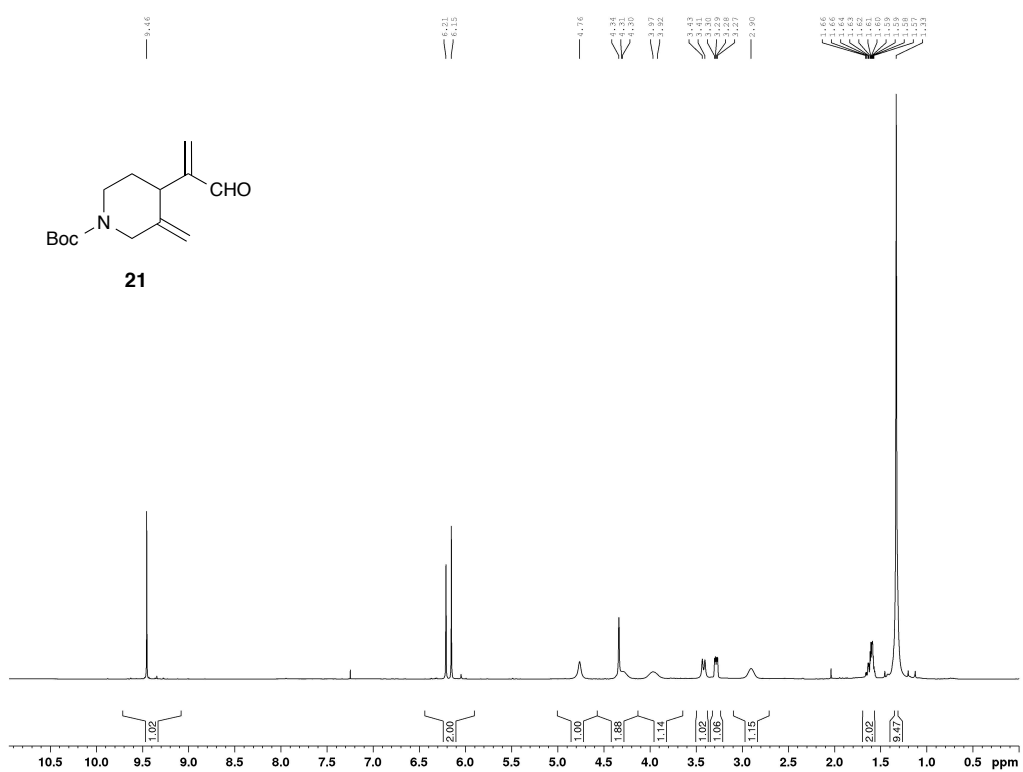


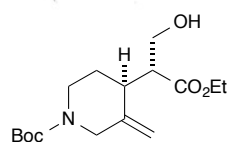




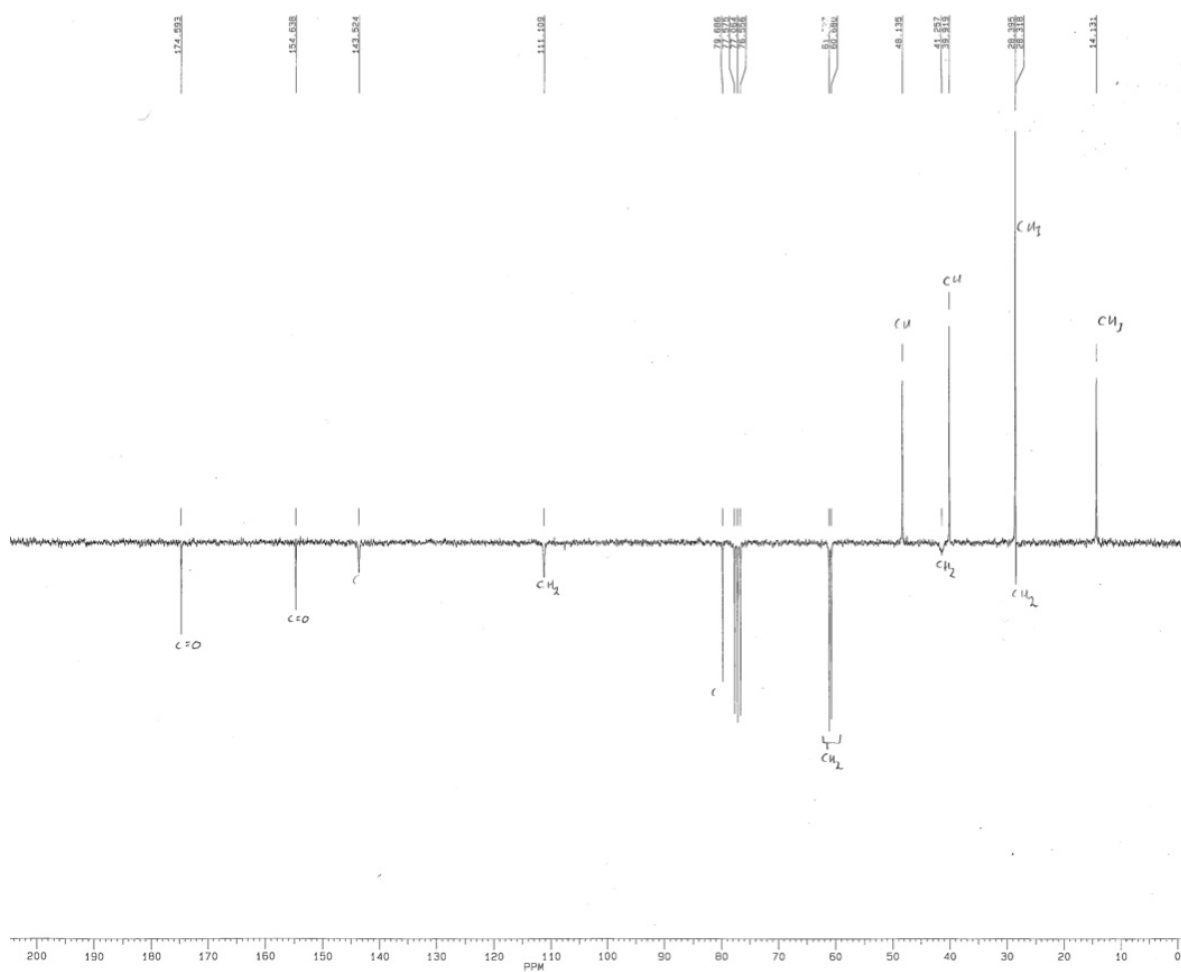
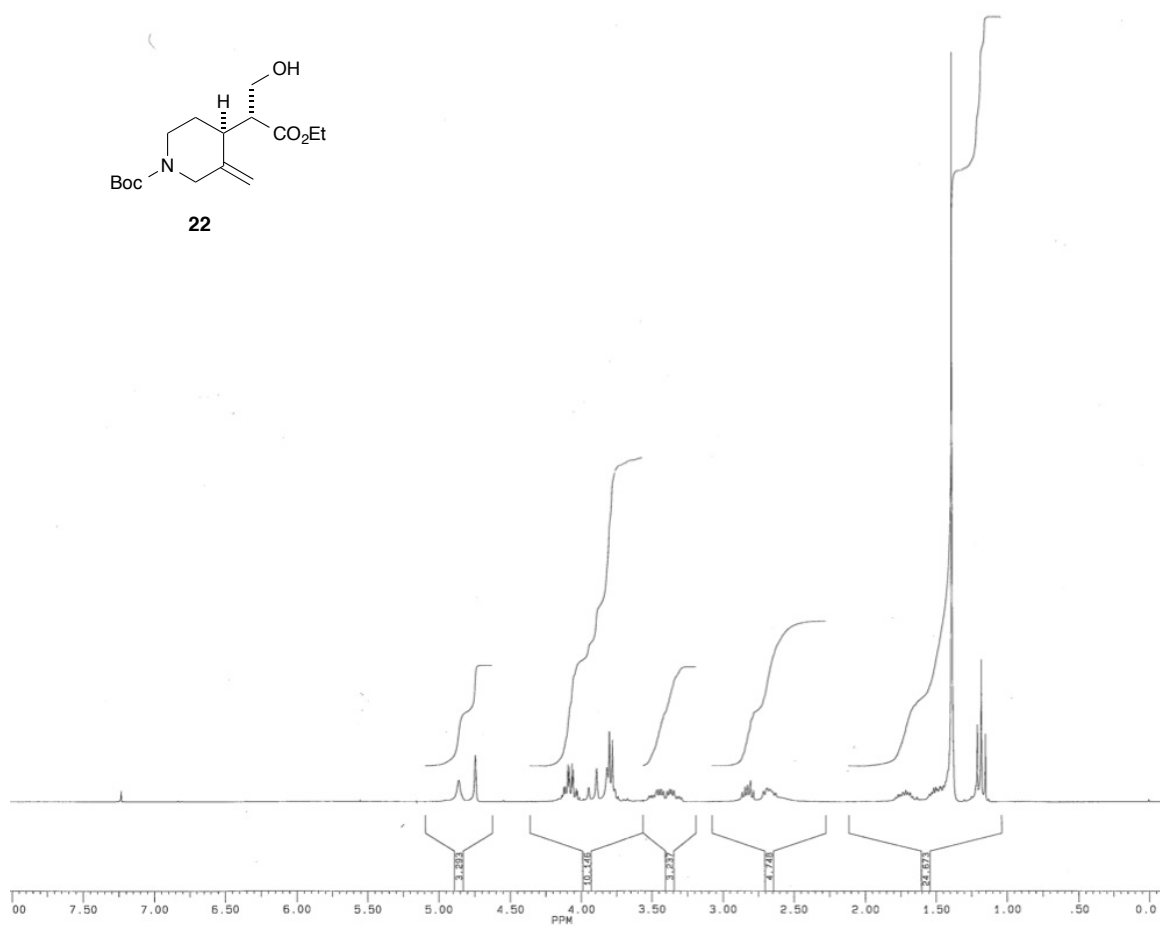


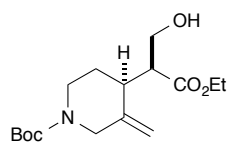




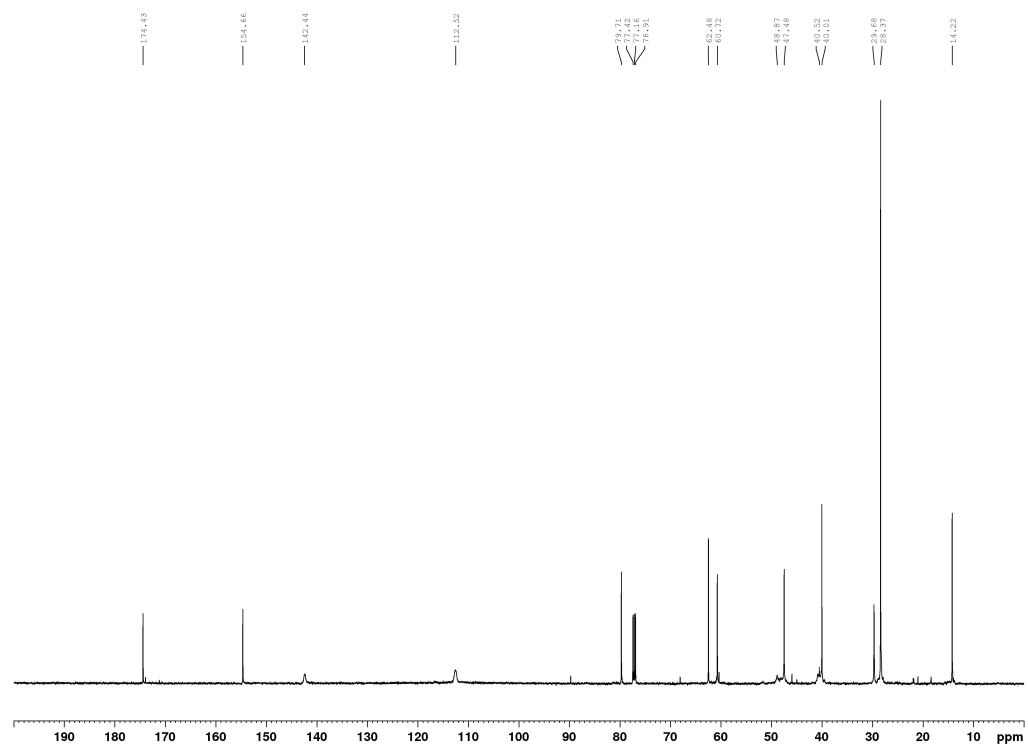
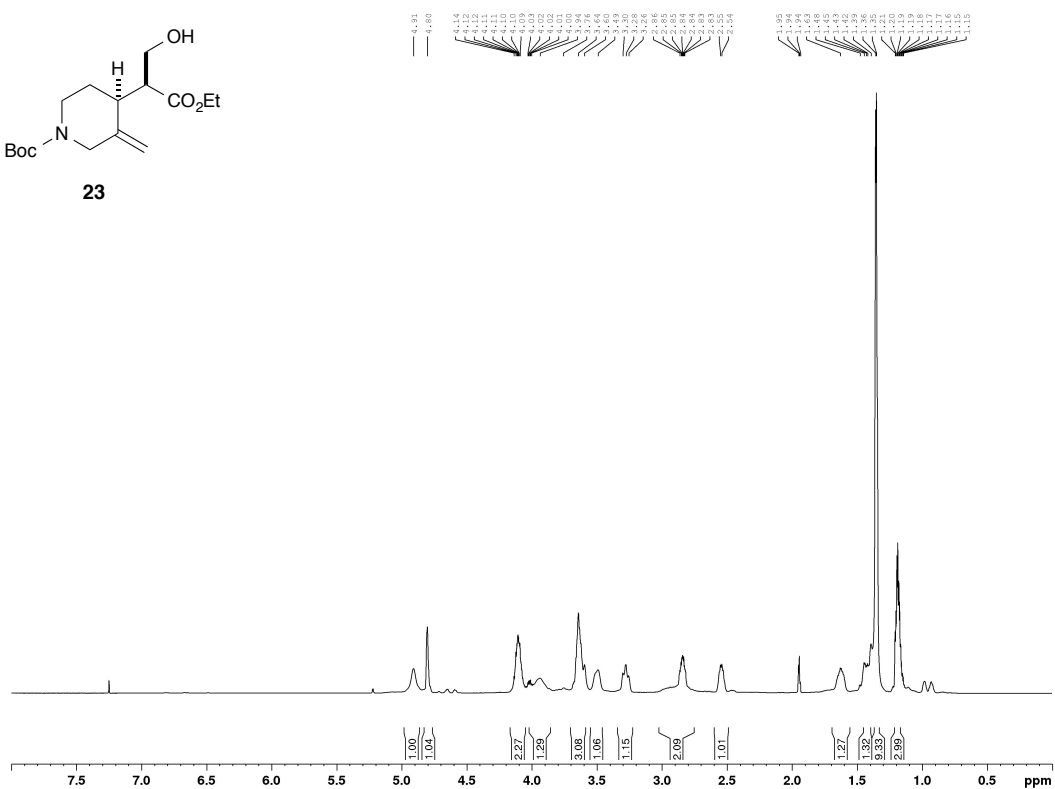


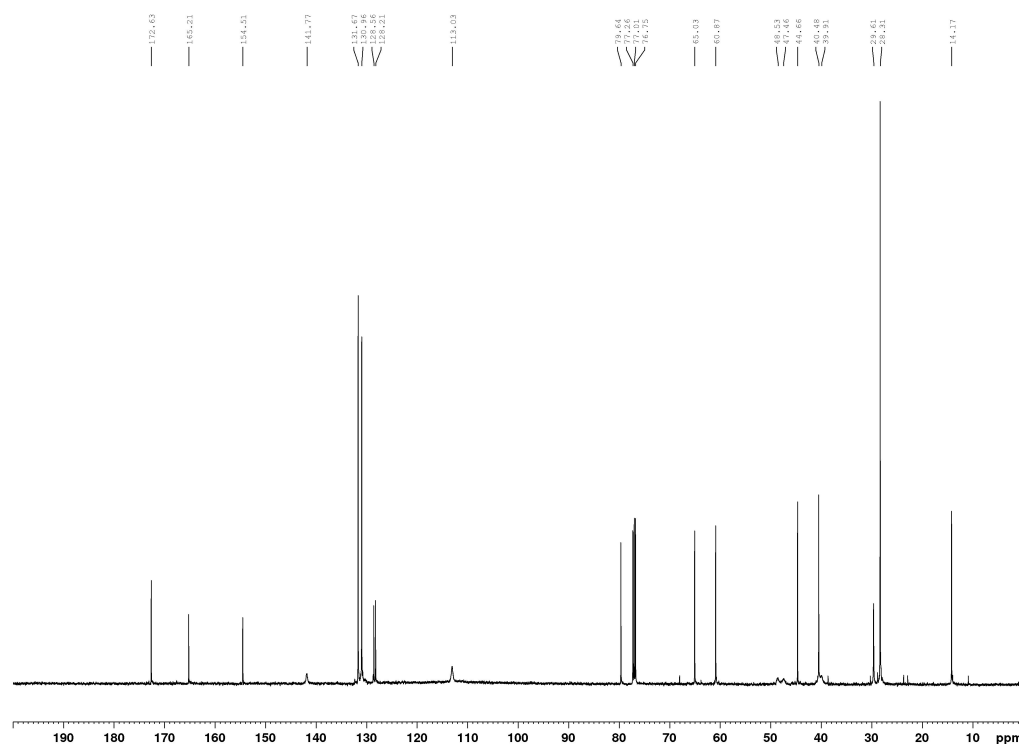
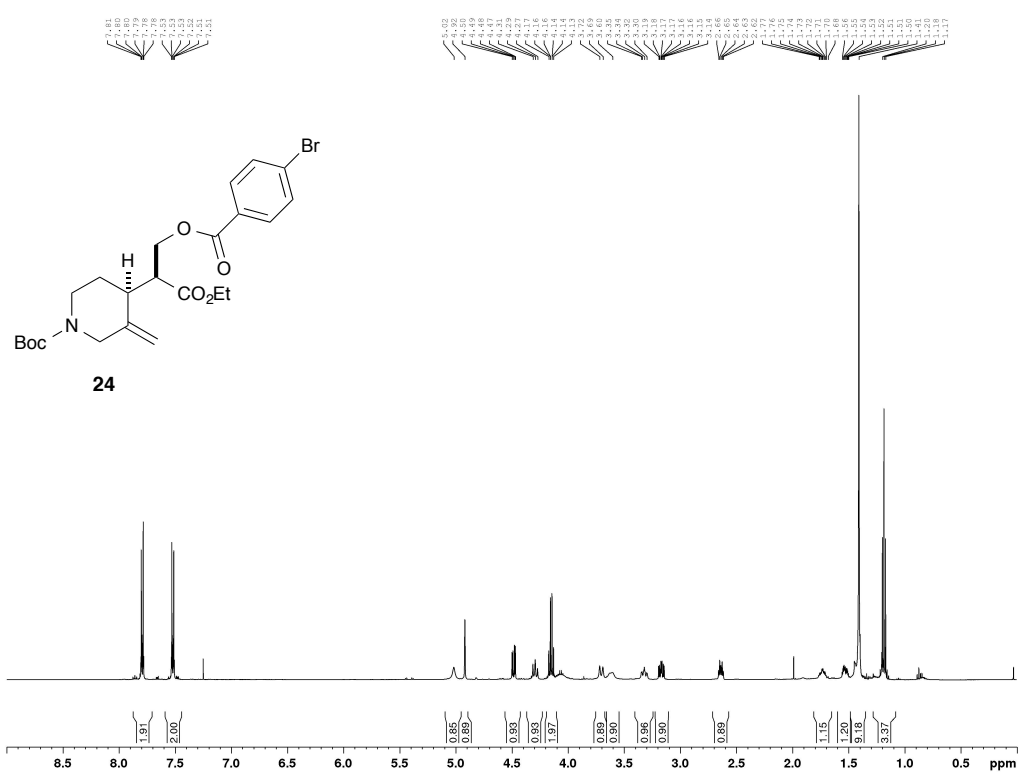
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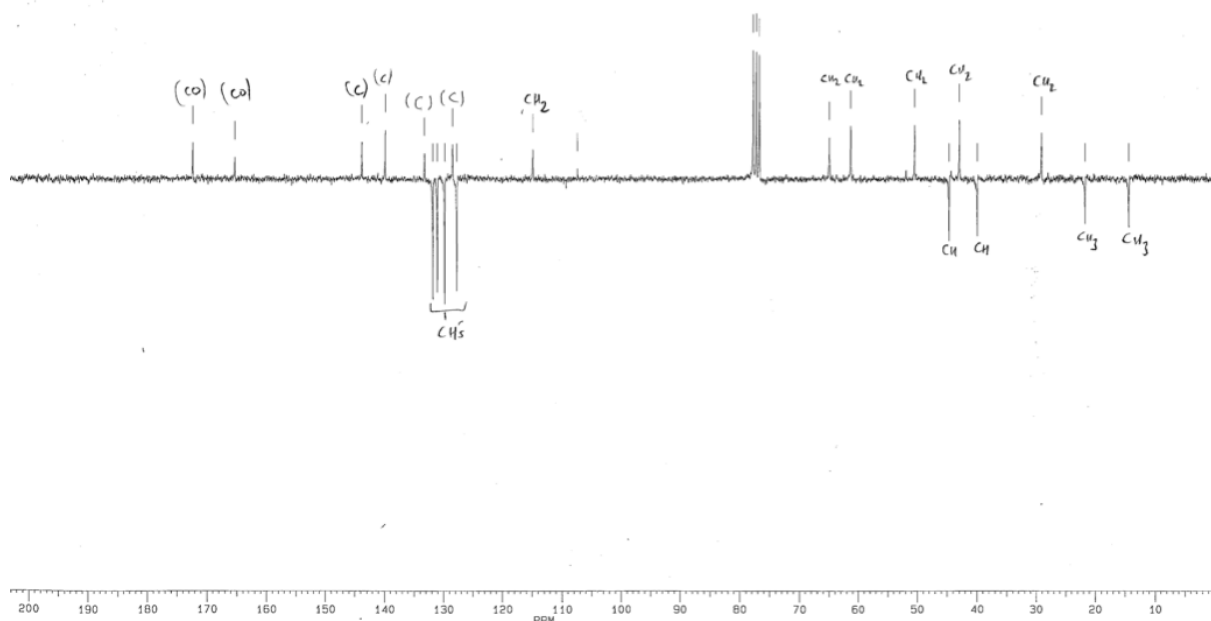


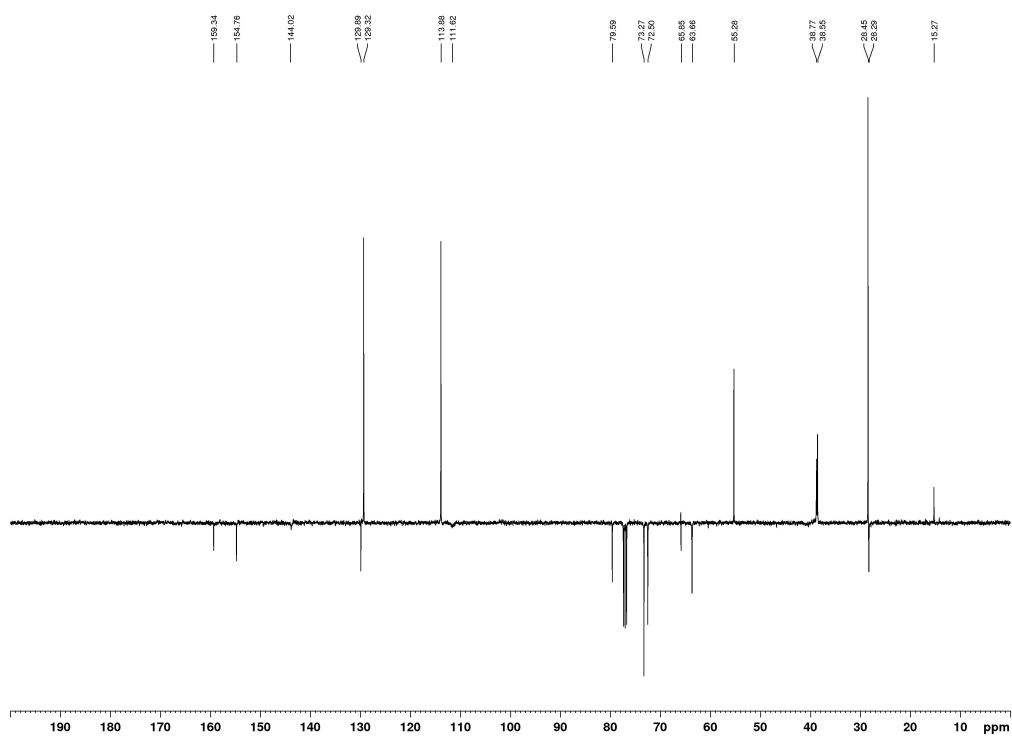
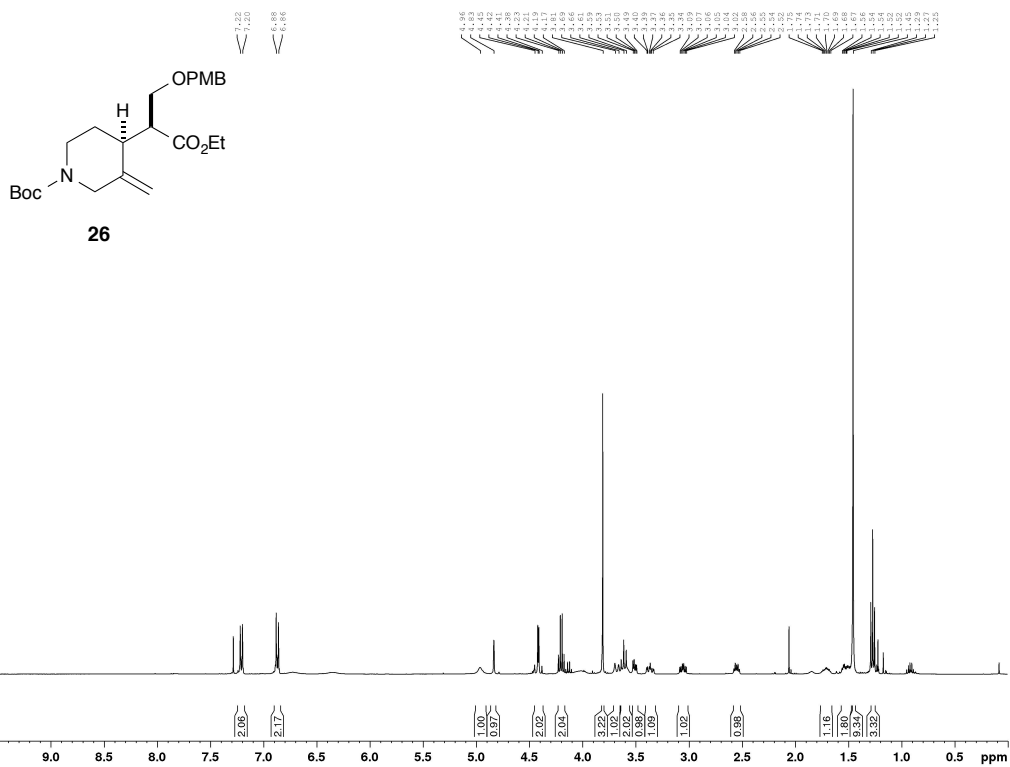


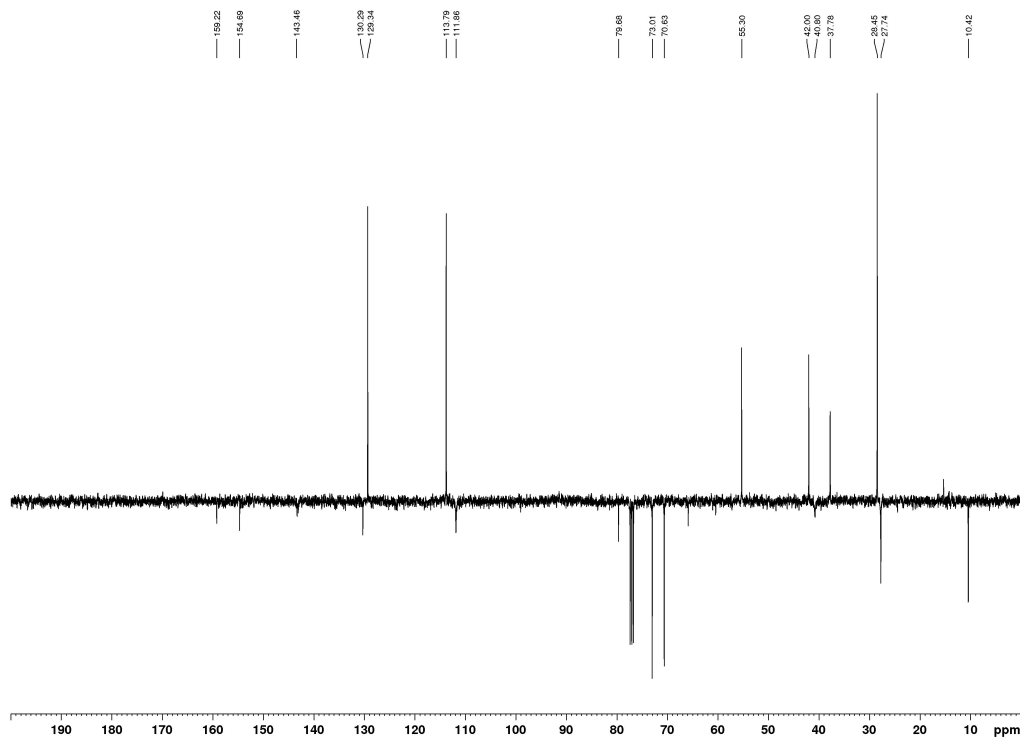
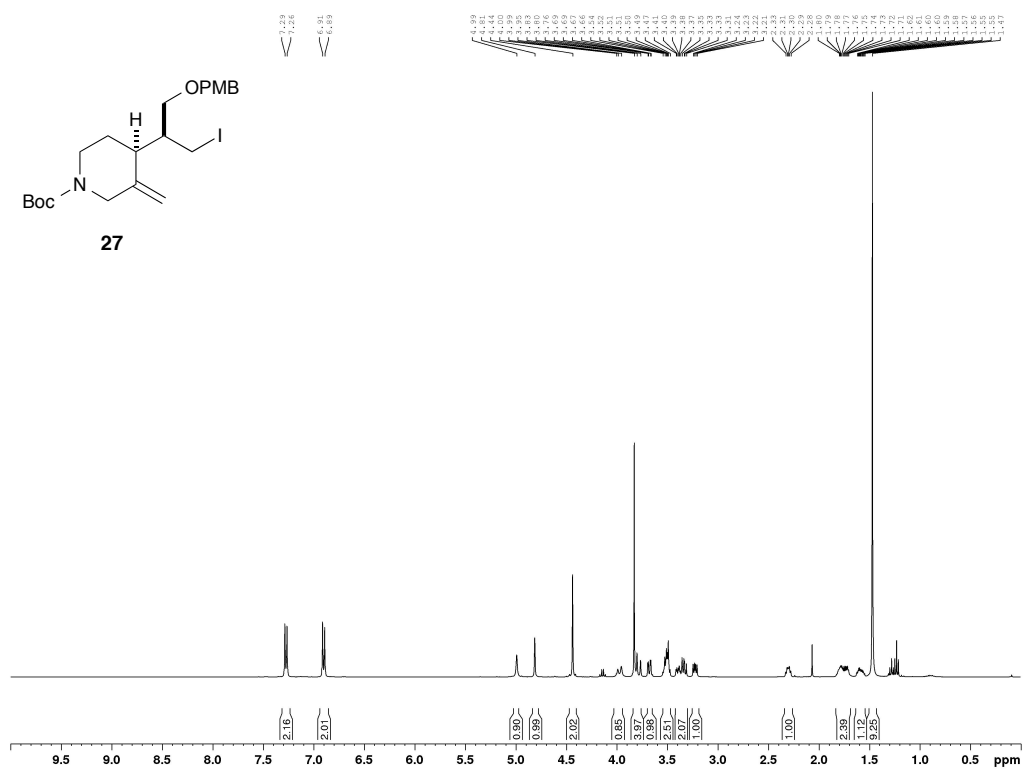
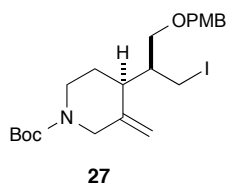
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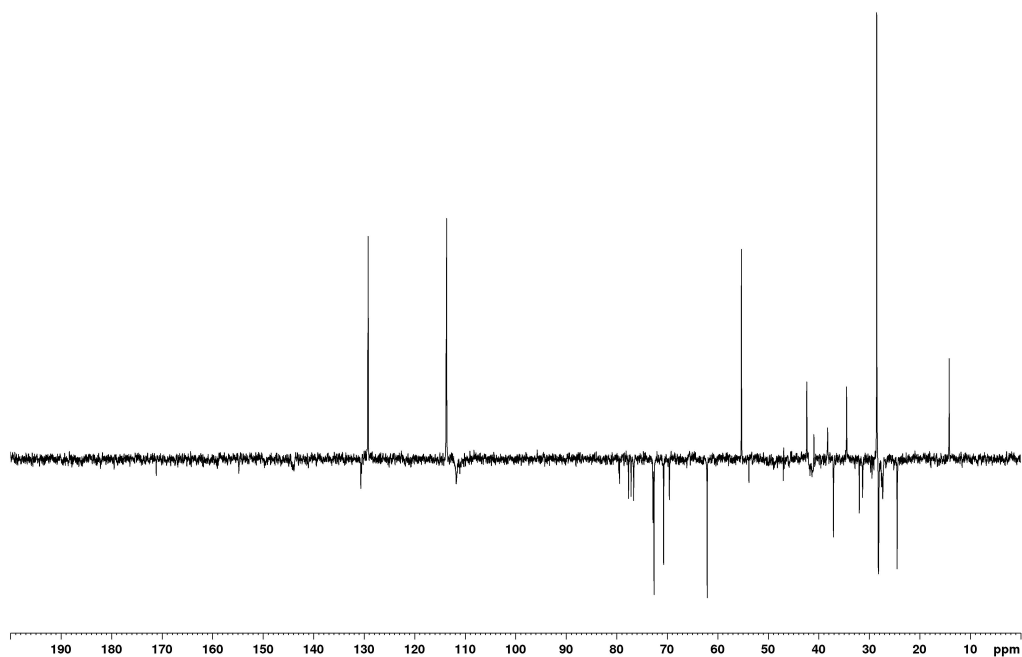


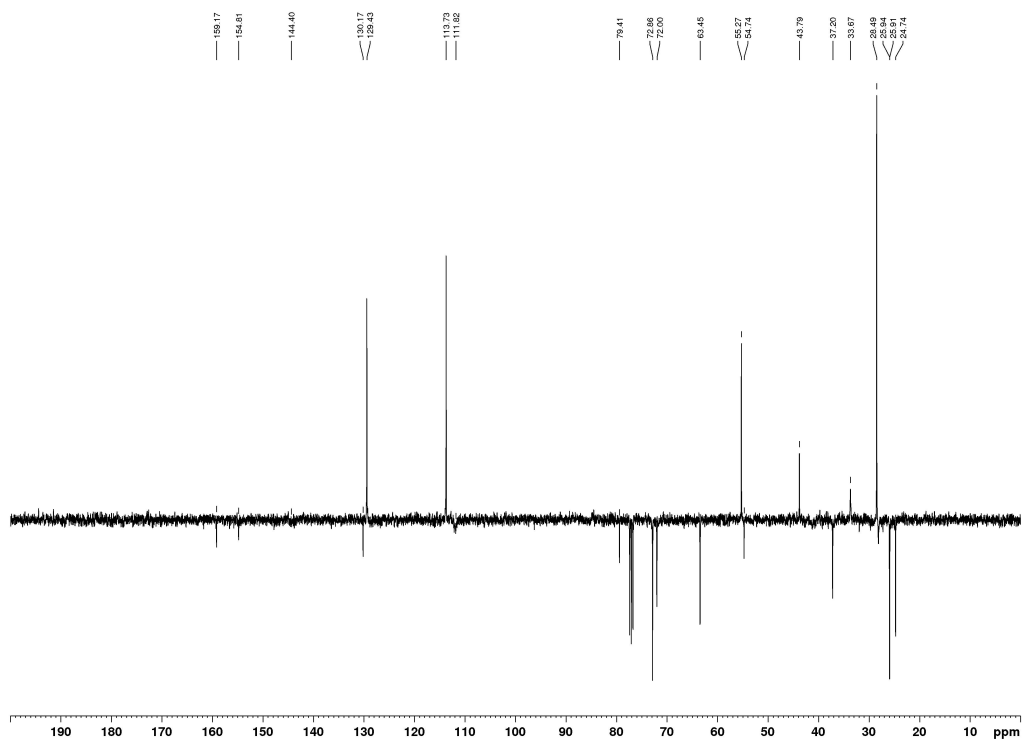
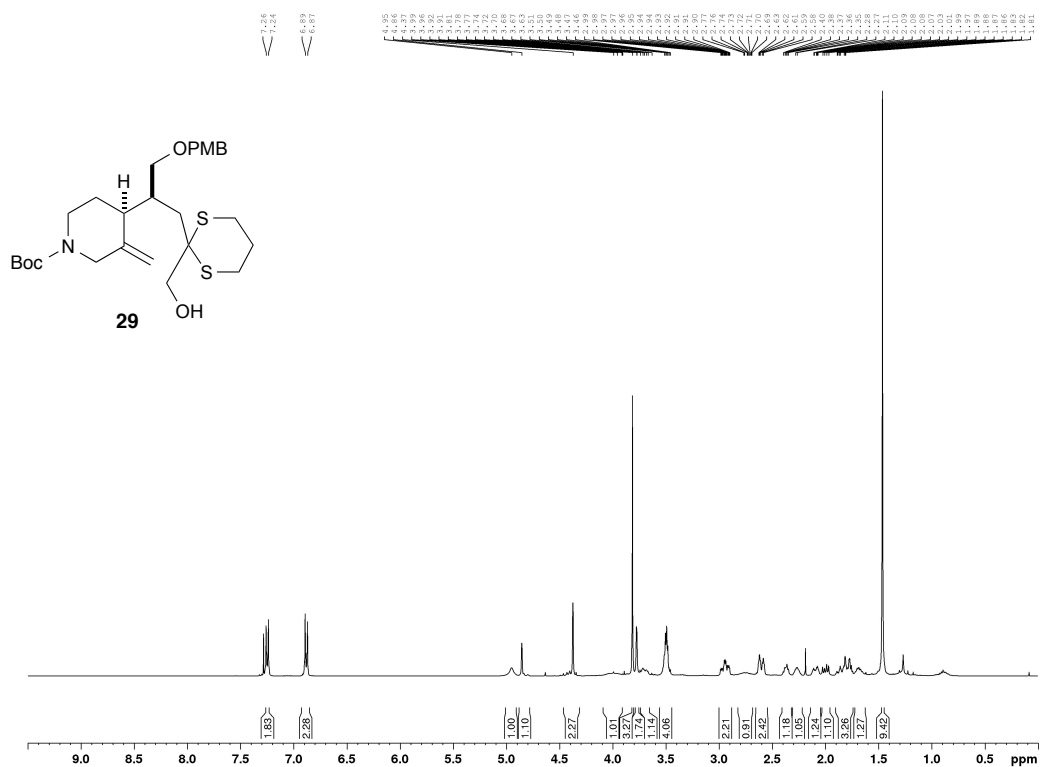


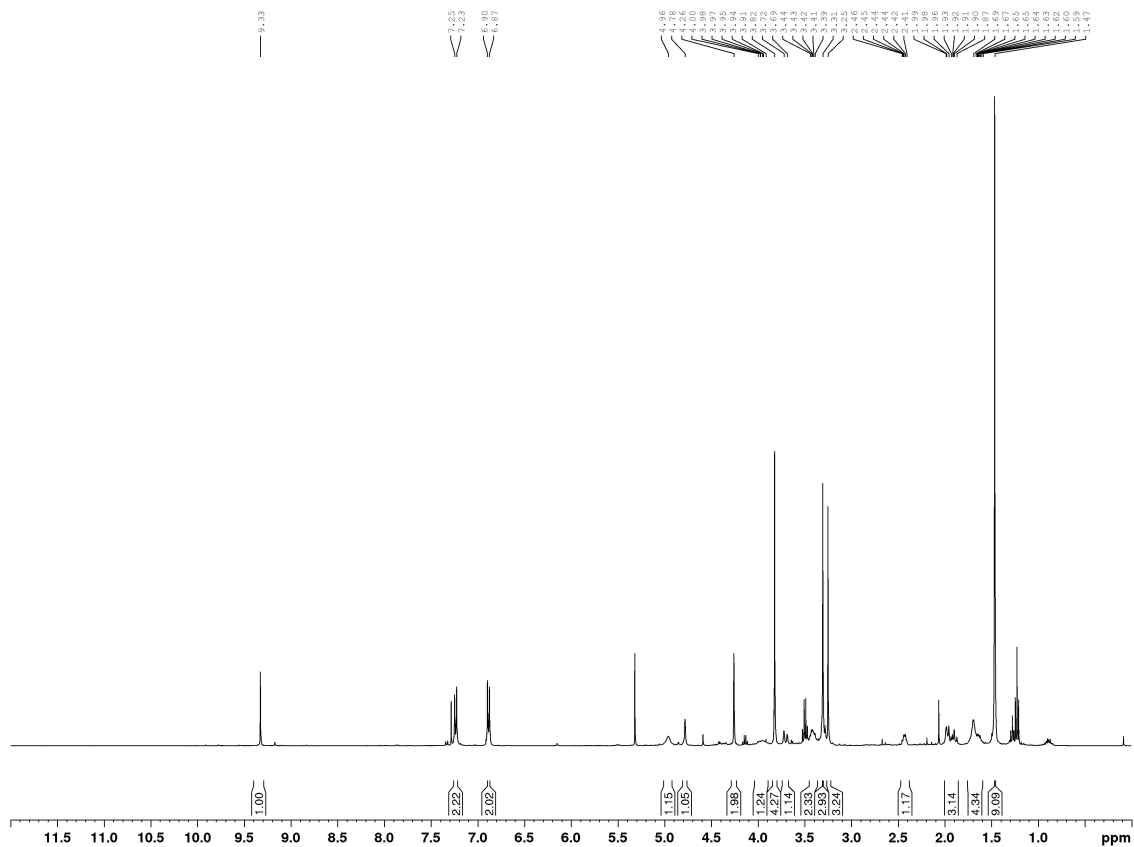
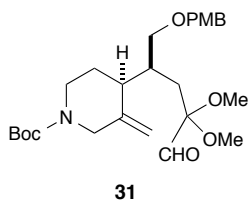


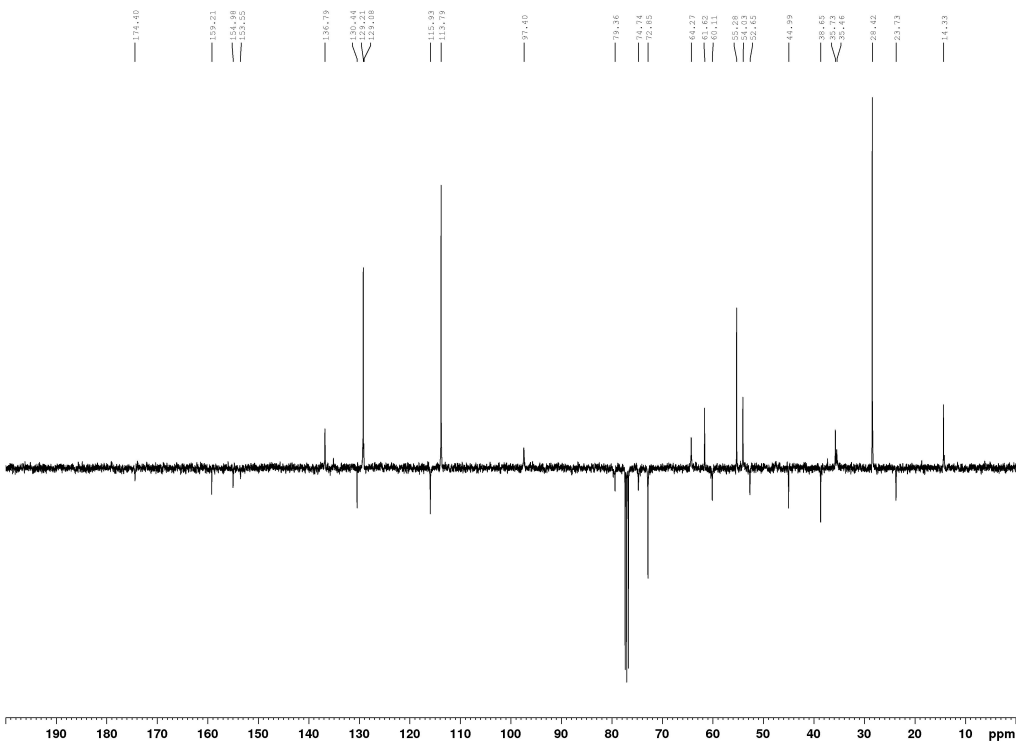
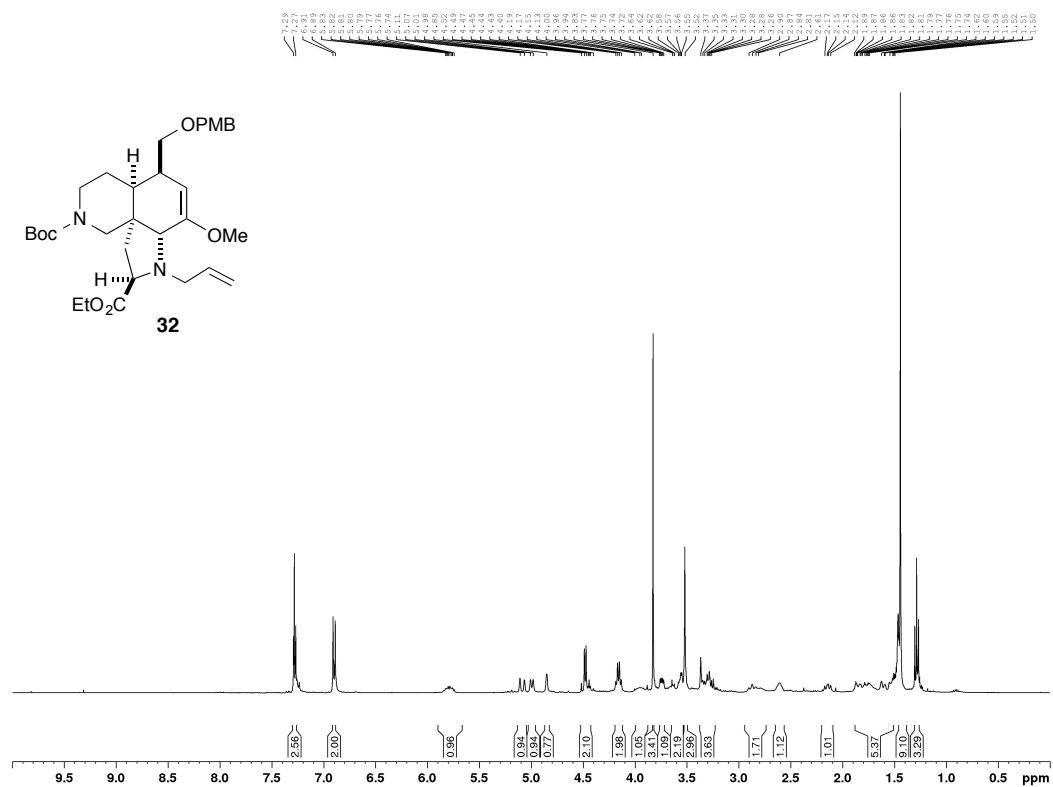




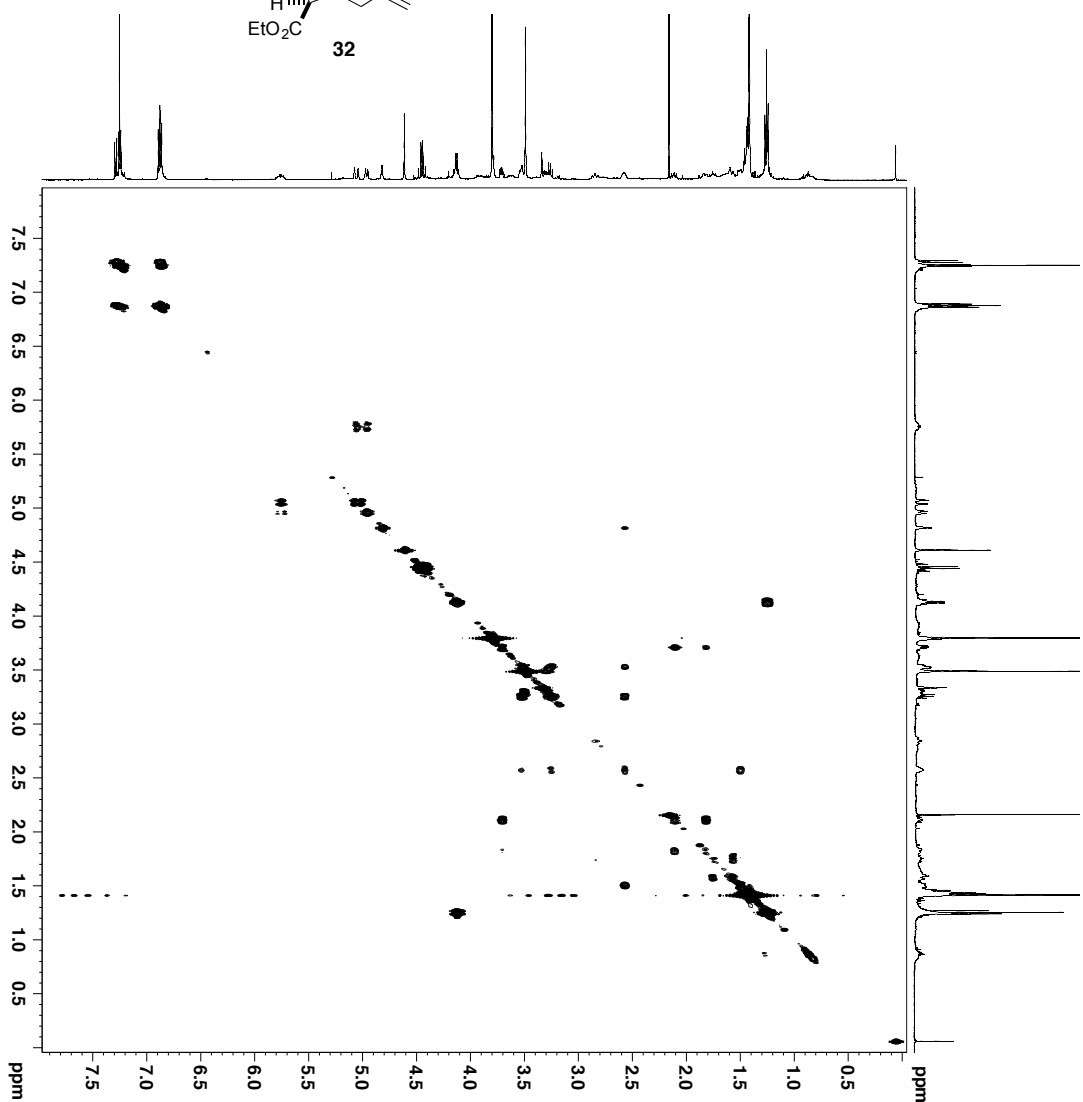
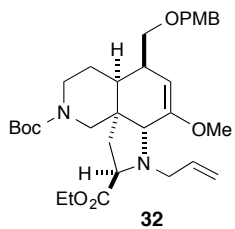








Ben Dobson D76 Sample ref. CA in CDCl3
GRASP COSY 5ppm with O1P = 3.5ppm



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