

Supplementary Information

Rapid and efficient access to novel bio-inspired 3-dimensional Tricyclic SpiroLactams as privileged structures via Meyers' lactamization

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Marion Michel ¹, Marion Flipo ¹, Benoit Deprez ¹, Nicolas Willand ¹, Baptiste Villemagne ^{1, *}**

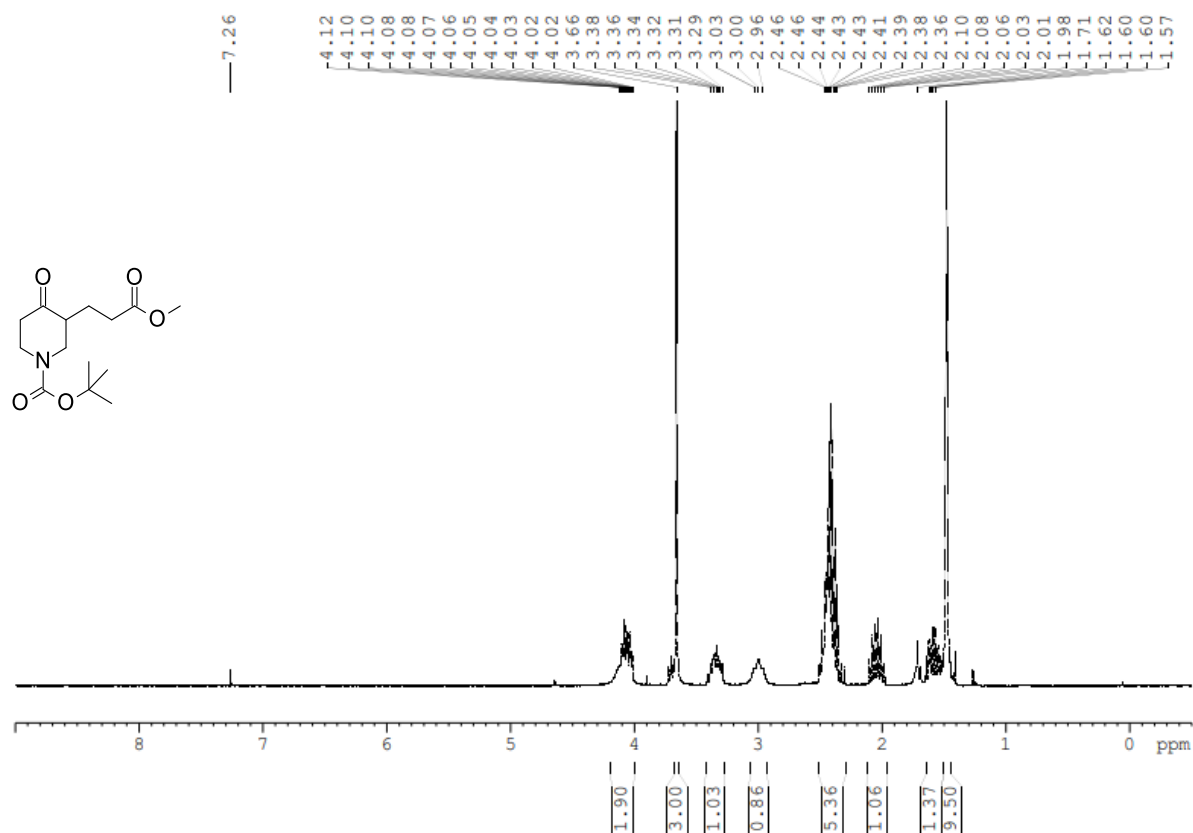
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² Univ. Lille, CNRS, Centrale Lille, ENSCL, Univ. Artois, UMR 8181 - UCCS - Unité de Catalyse et Chimie du Solide, F-59000 Lille, France.

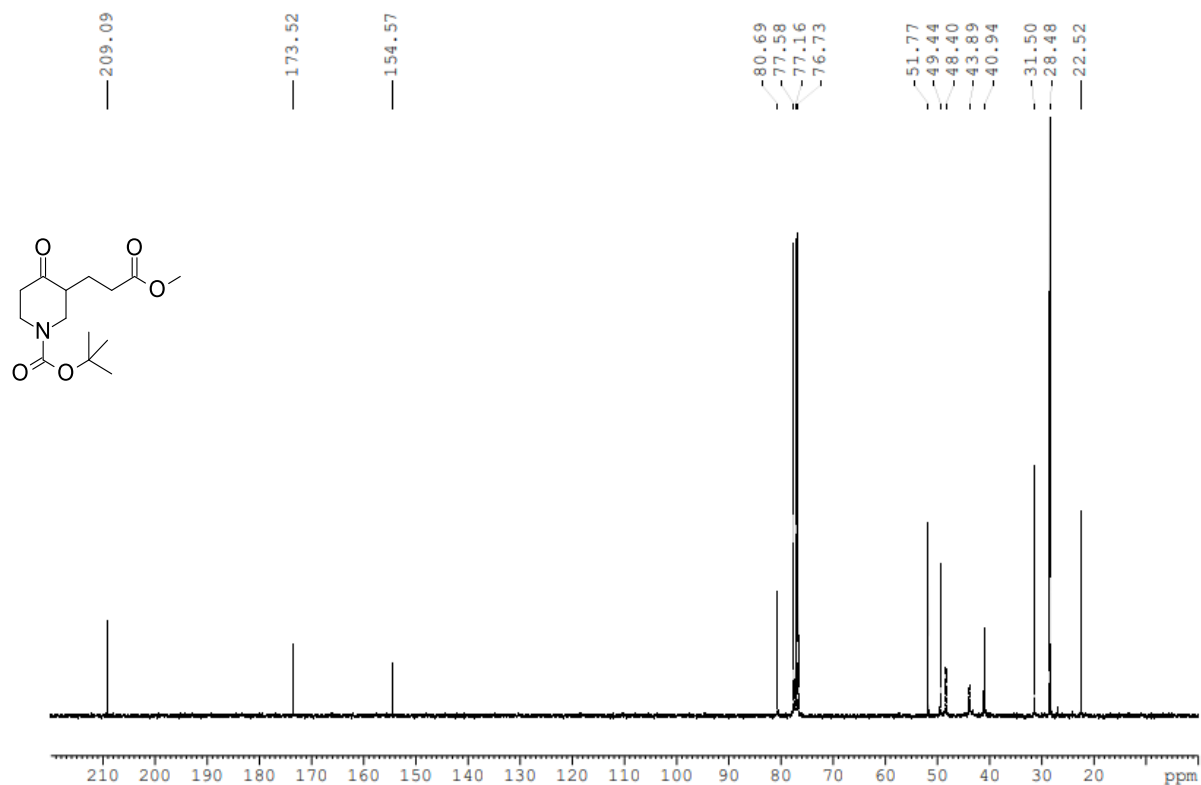
*Correspondence: baptiste.villemagne@univ-lille.fr;

^1H and ^{13}C NMR Spectra:

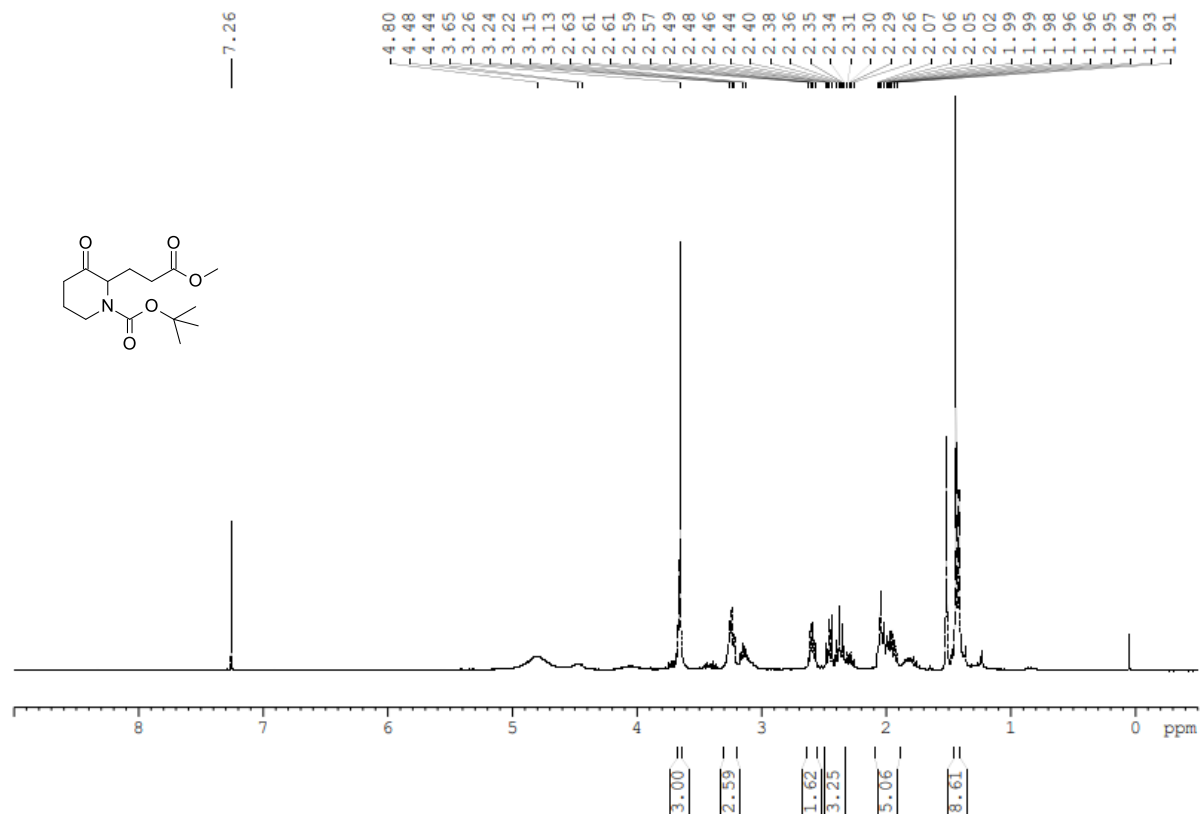
16, ^1H NMR (300 MHz, CDCl_3)



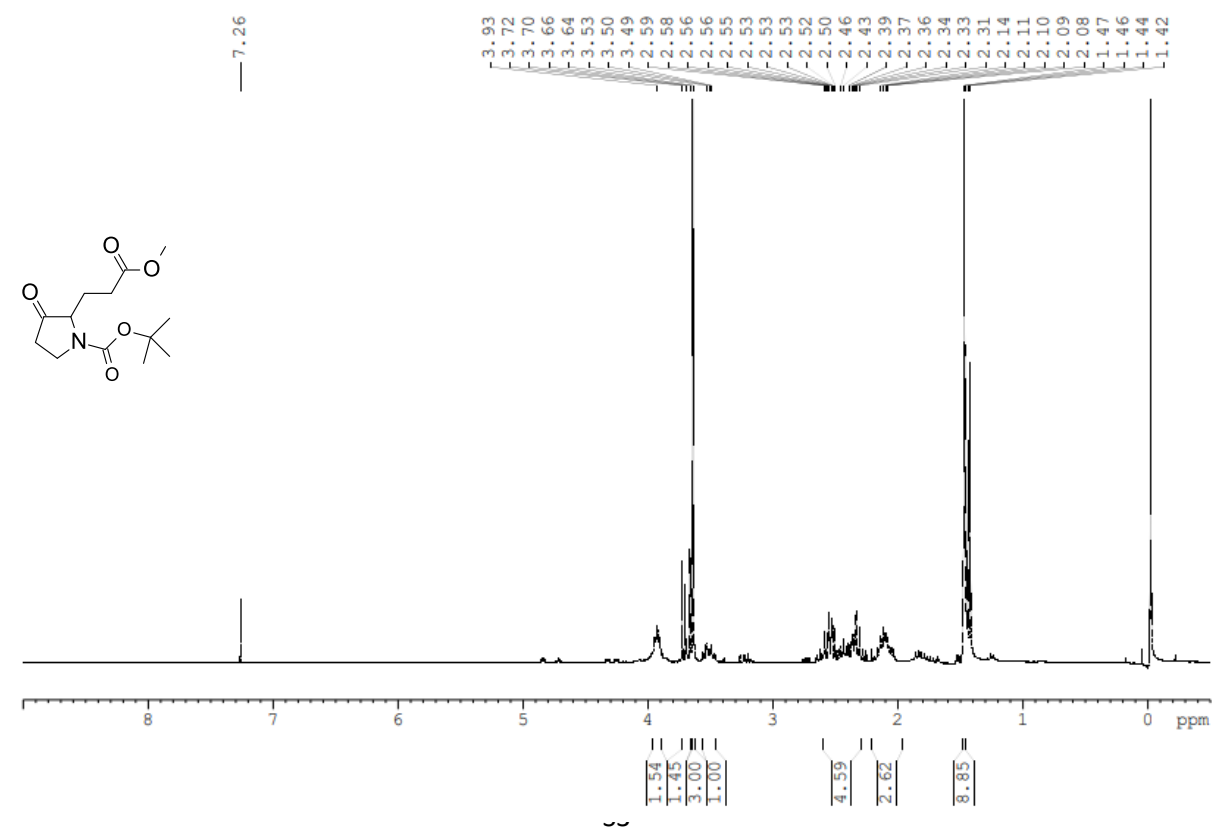
16, ^{13}C NMR (75 MHz, CDCl_3)



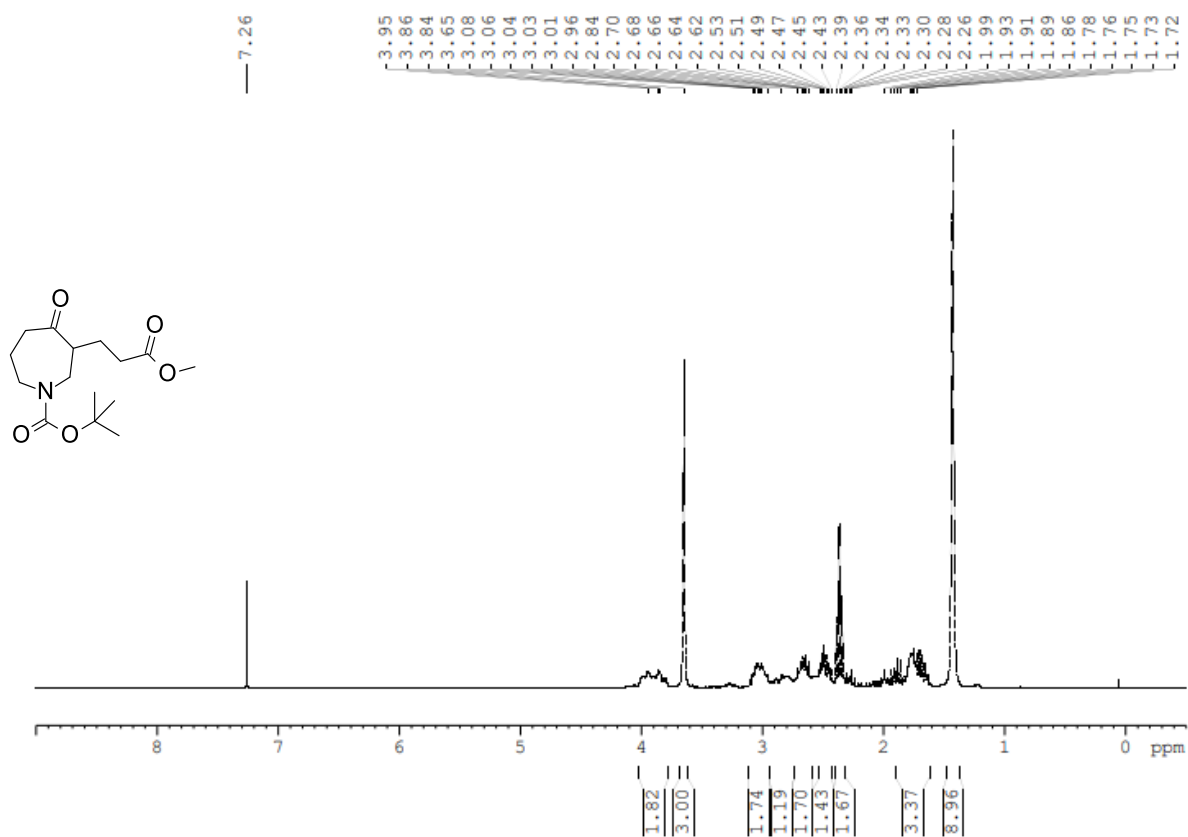
30, ^1H NMR (300 MHz, CDCl_3)



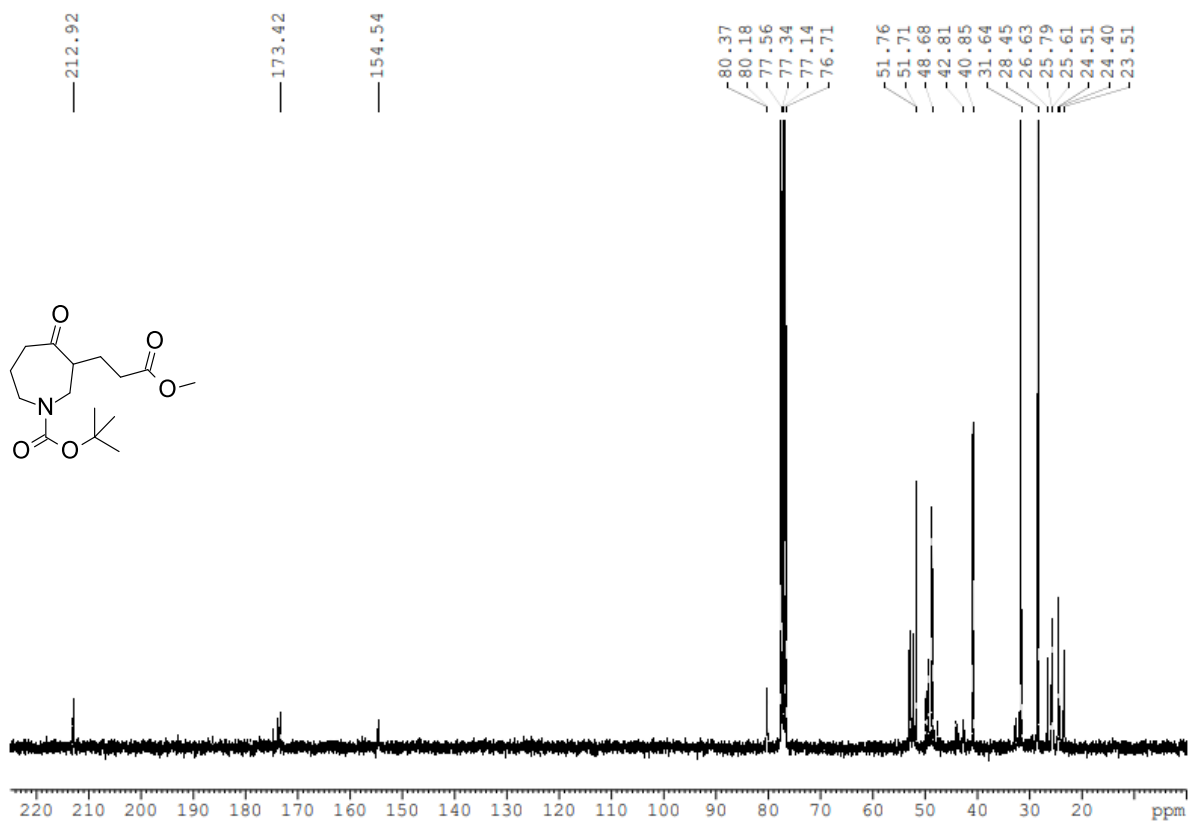
32, ^1H NMR (300 MHz, CDCl_3)



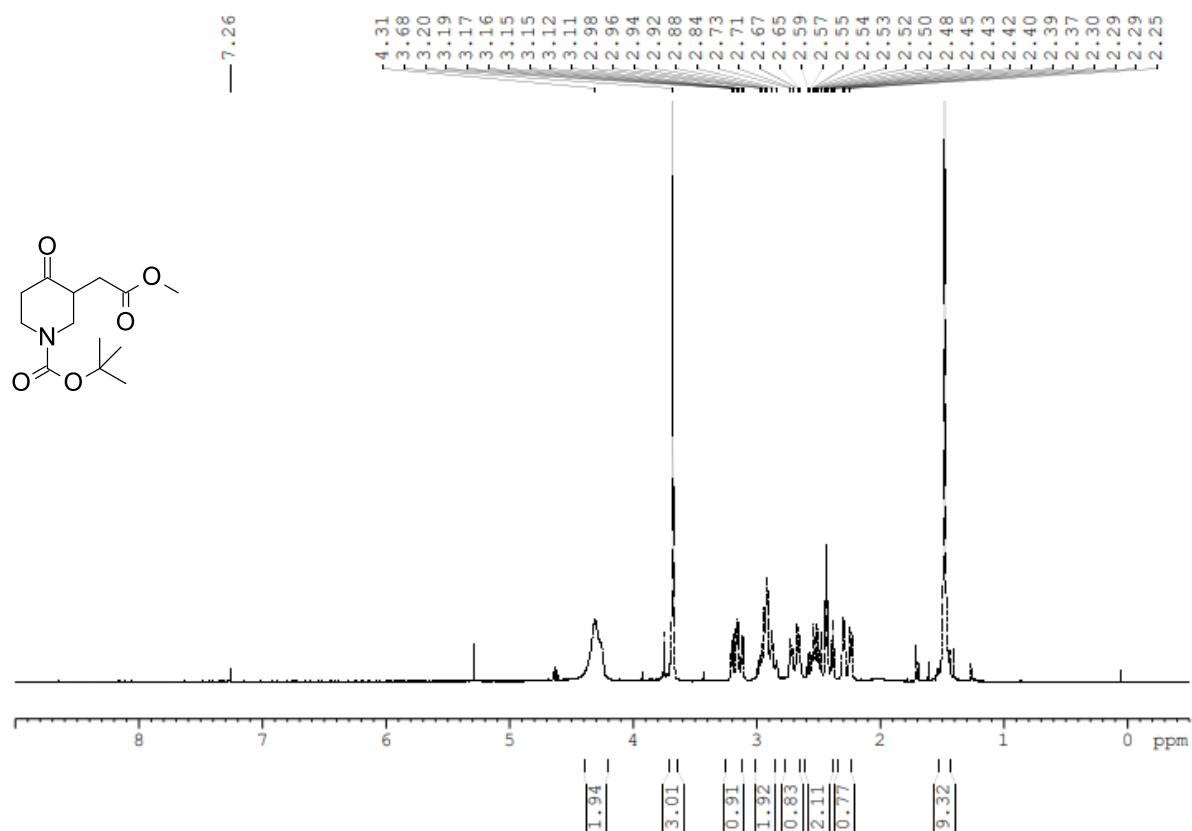
34, ^1H NMR (300 MHz, CDCl_3)



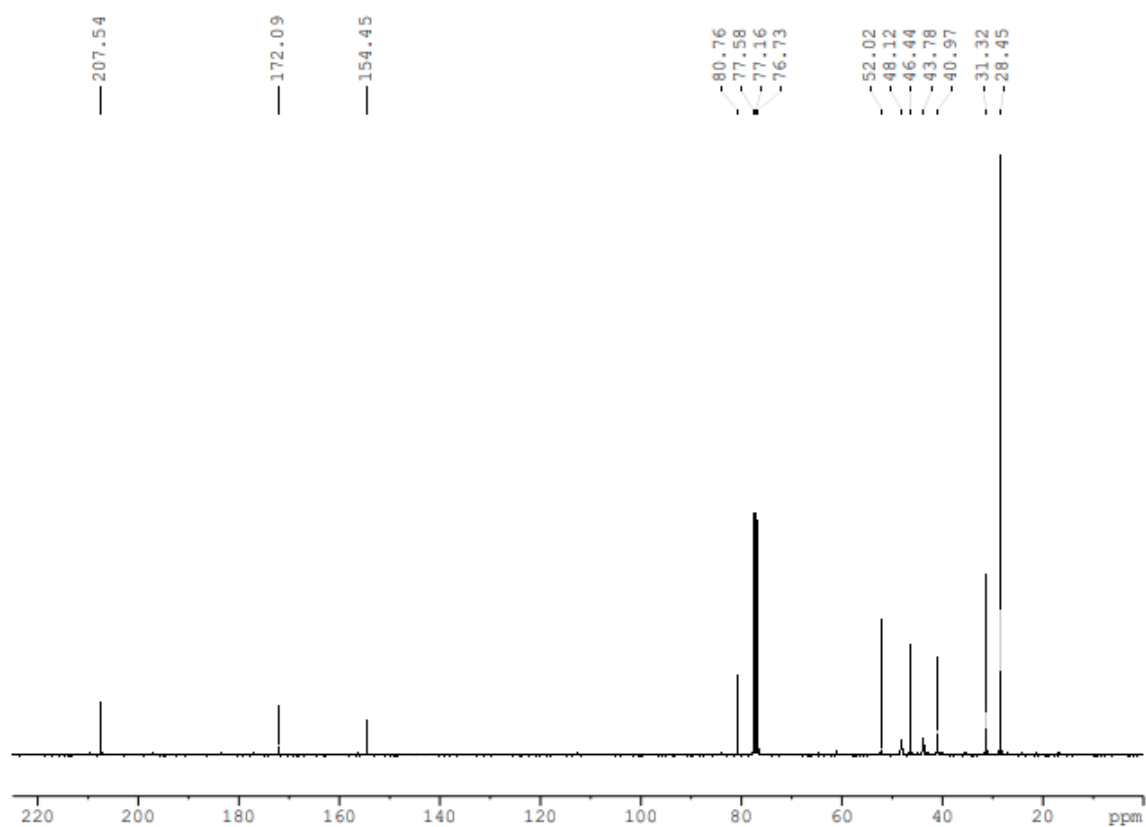
34, ^{13}C NMR (75 MHz, CDCl_3)



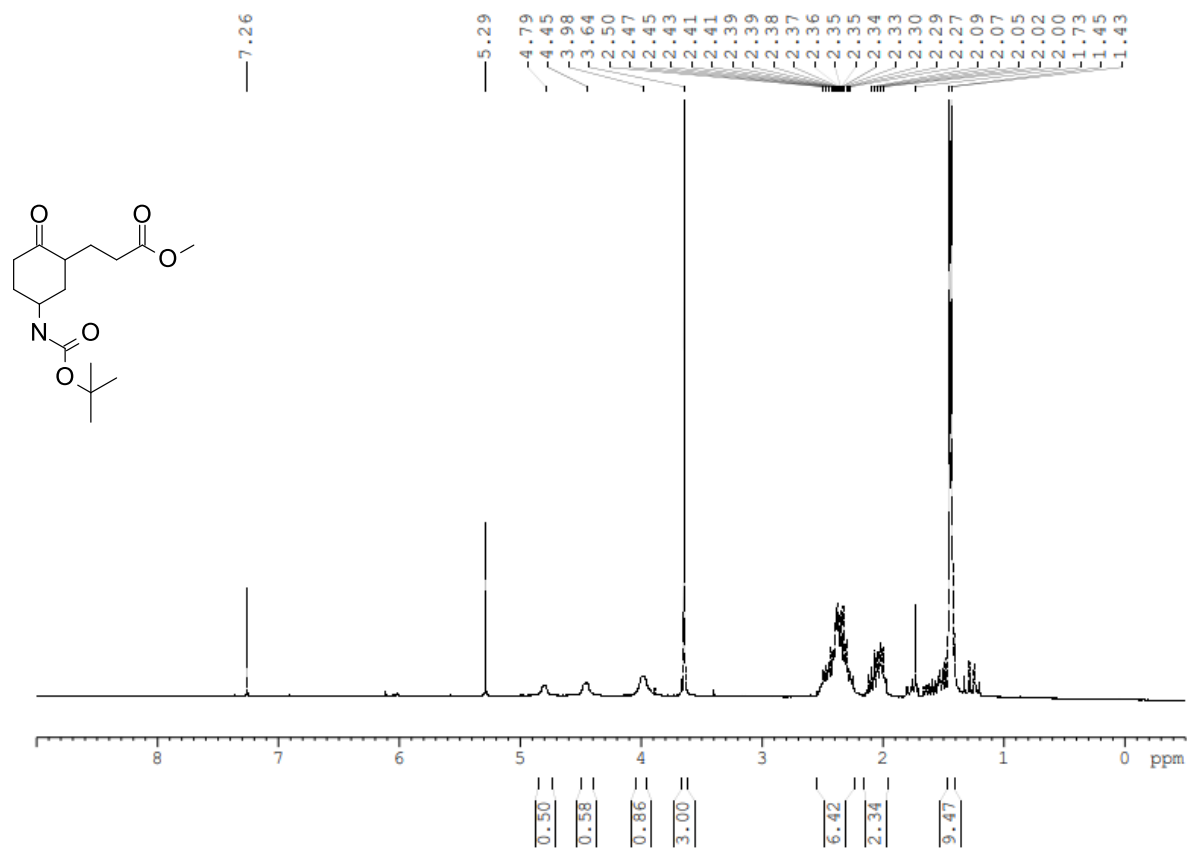
36, ^1H NMR (300 MHz, CDCl_3)



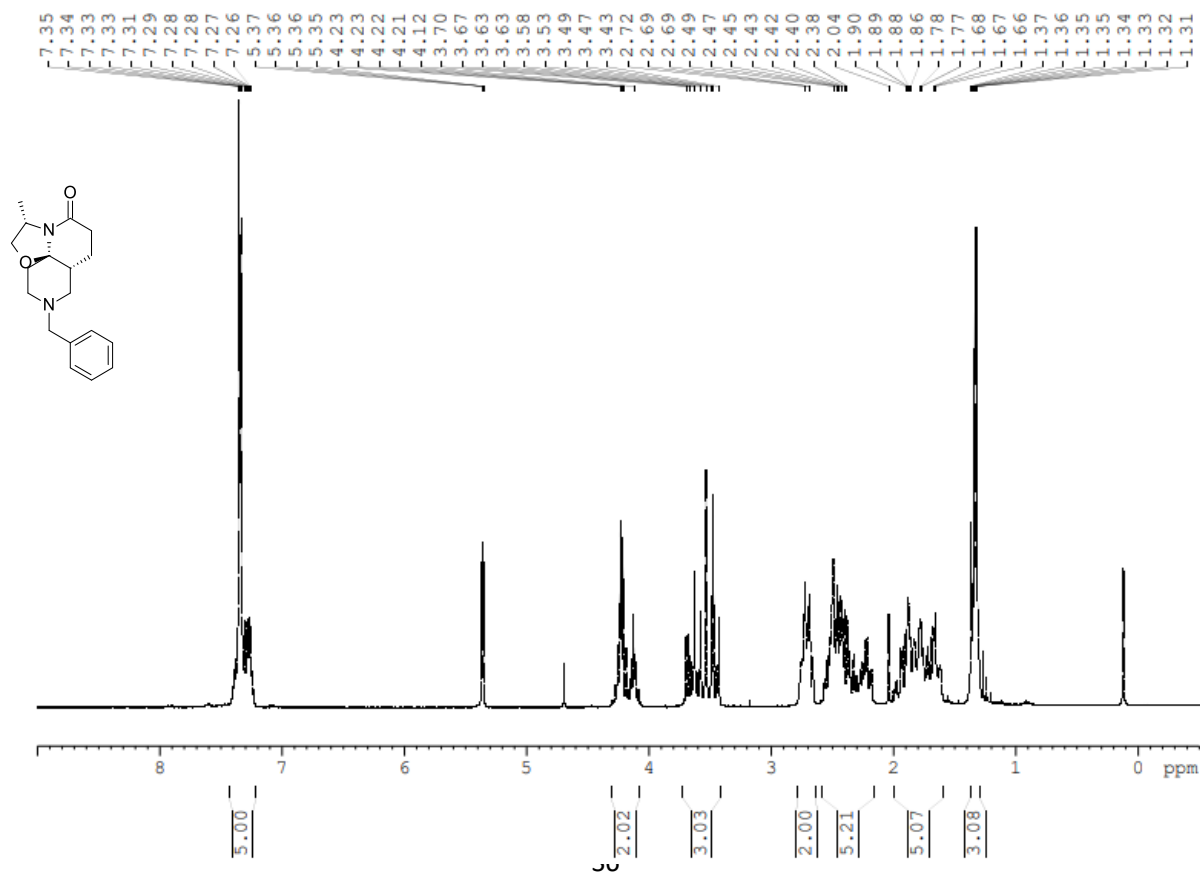
36, ^{13}C NMR (75 MHz, CDCl_3)



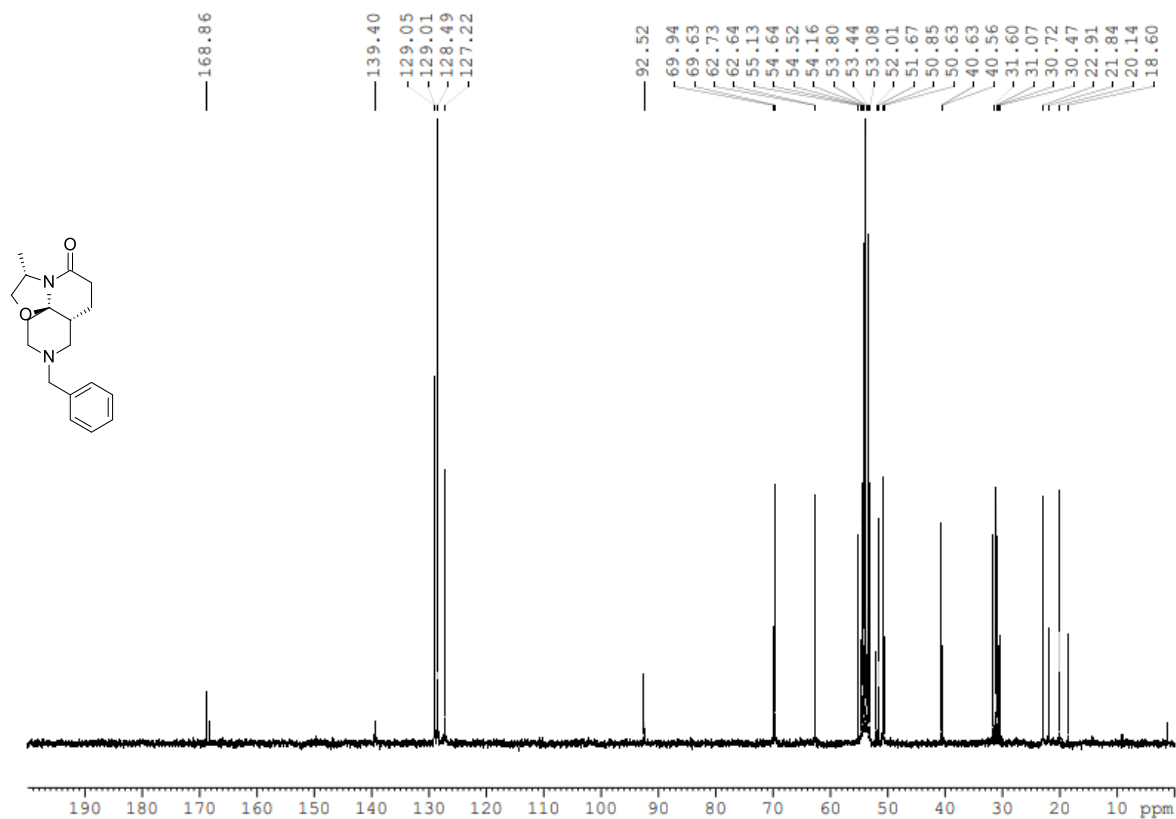
38, ^1H NMR (300 MHz, CDCl_3)



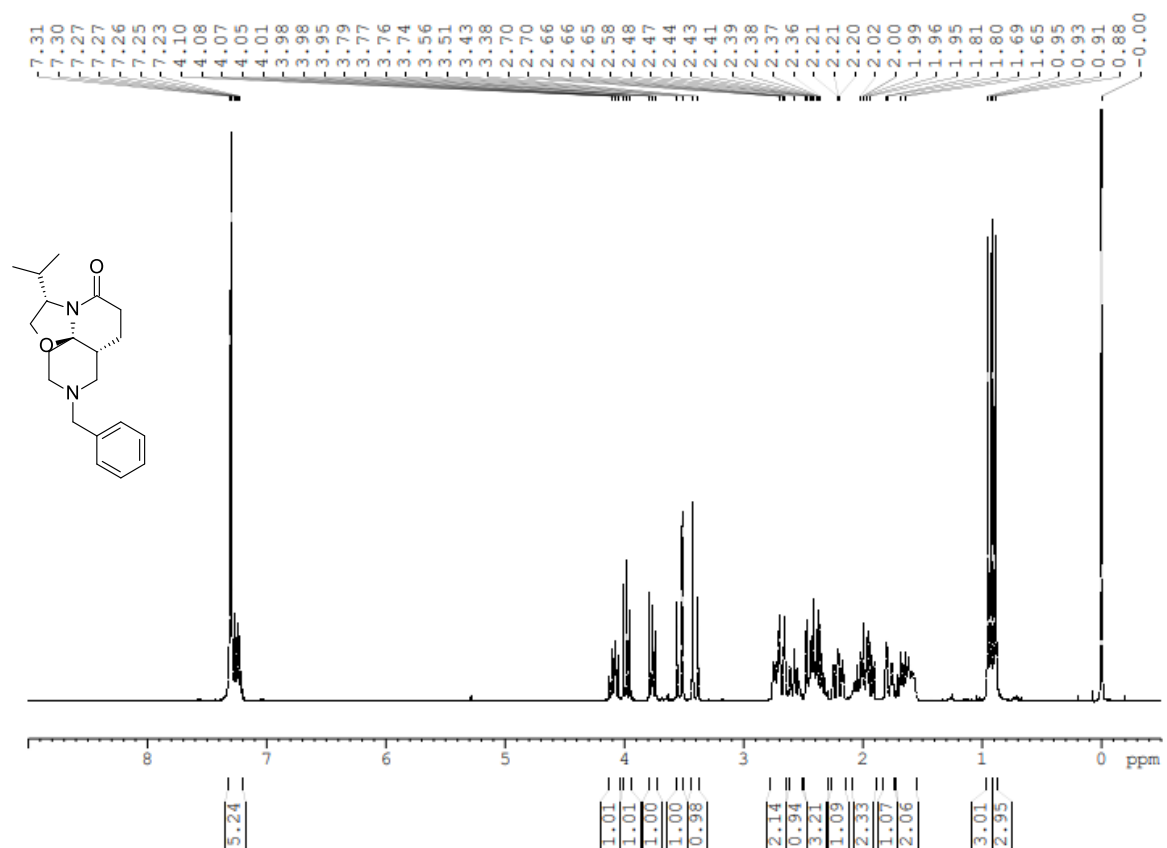
11, ^1H NMR (300 MHz, CD_2Cl_2)



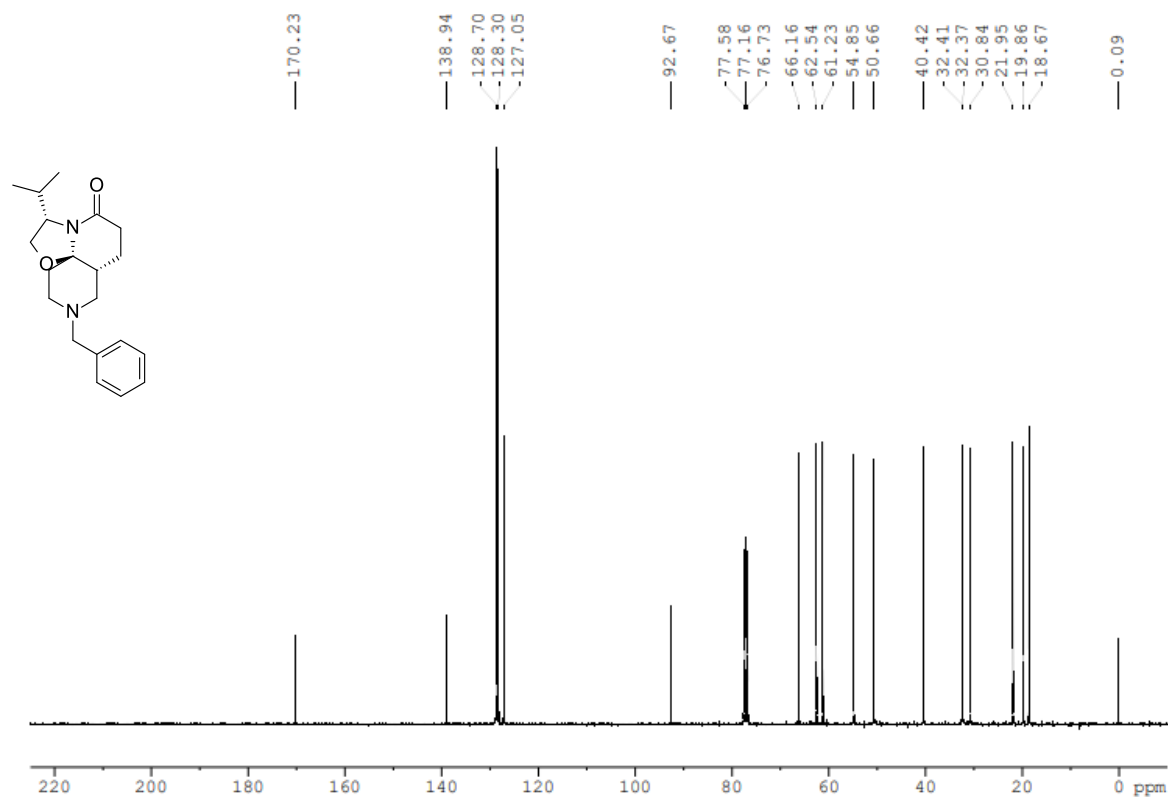
11, ^{13}C NMR (75 MHz, CD_2Cl_2)



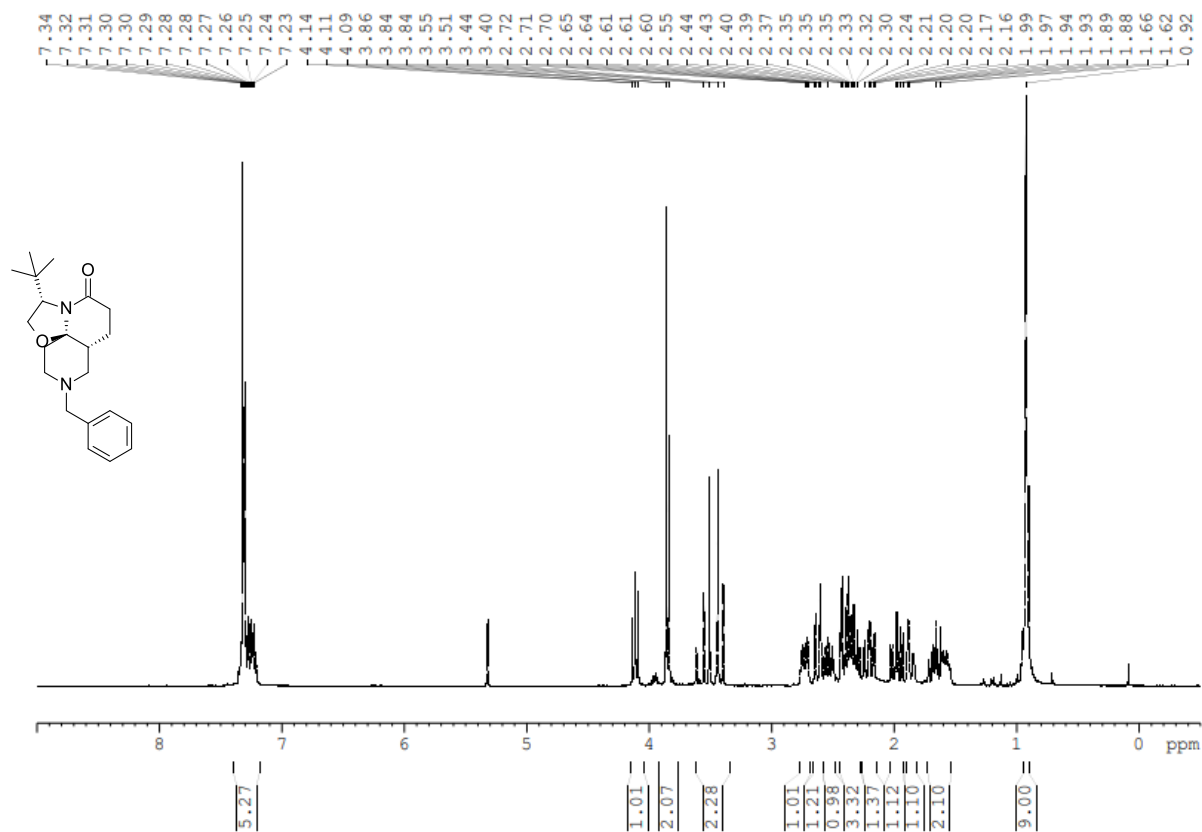
12, ^1H NMR (300 MHz, CDCl_3)



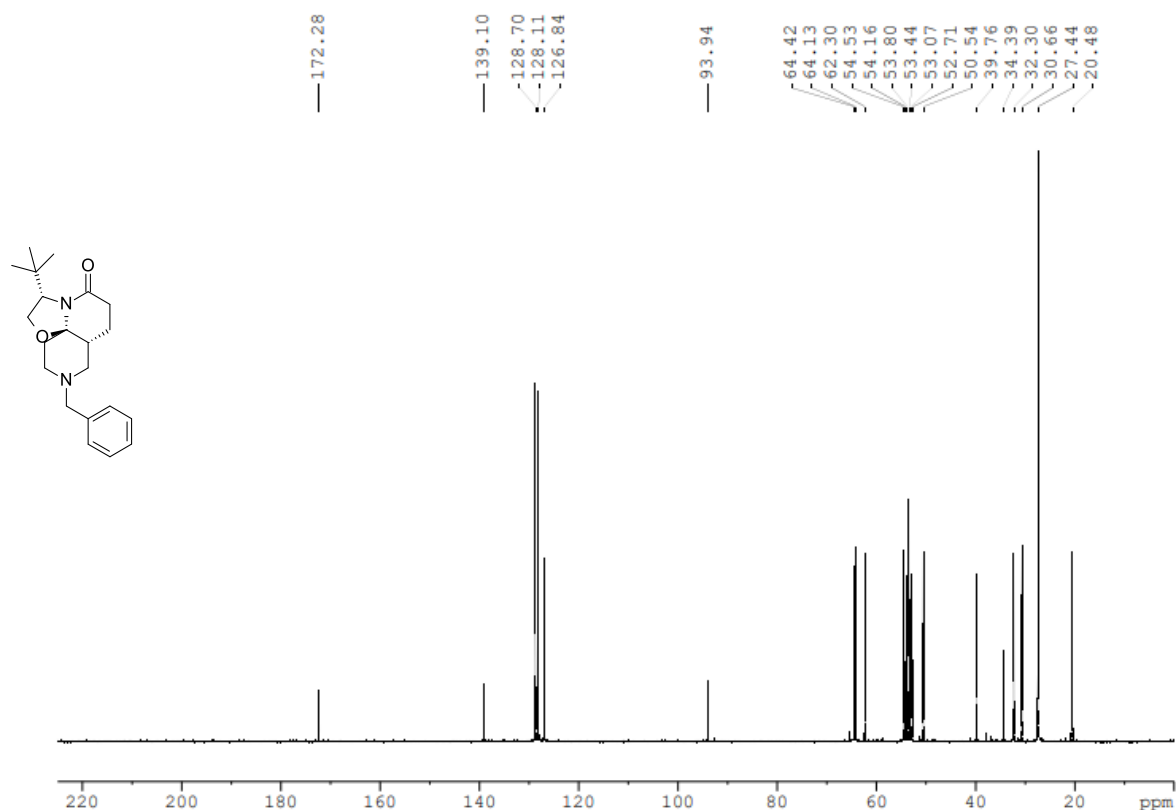
12, ^{13}C NMR (75 MHz, CDCl_3)



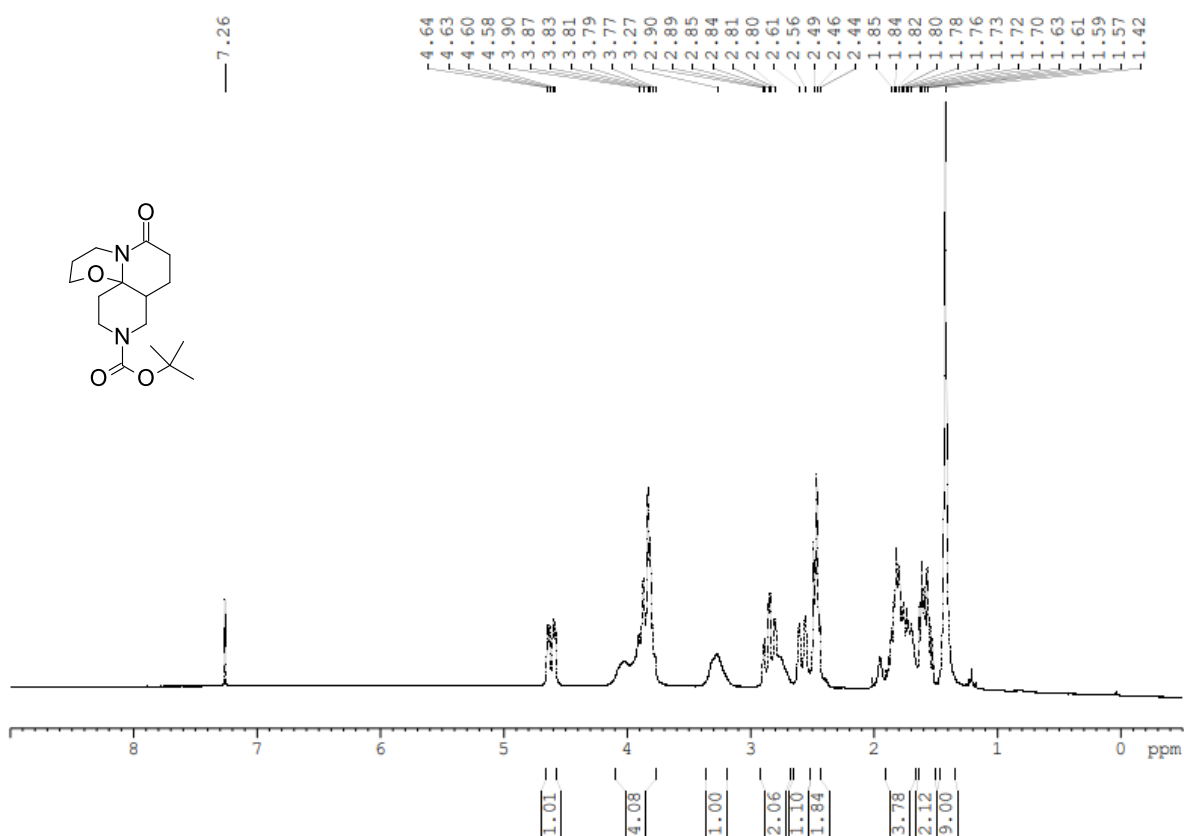
13, ^1H NMR (300 MHz, CD_2Cl_2)



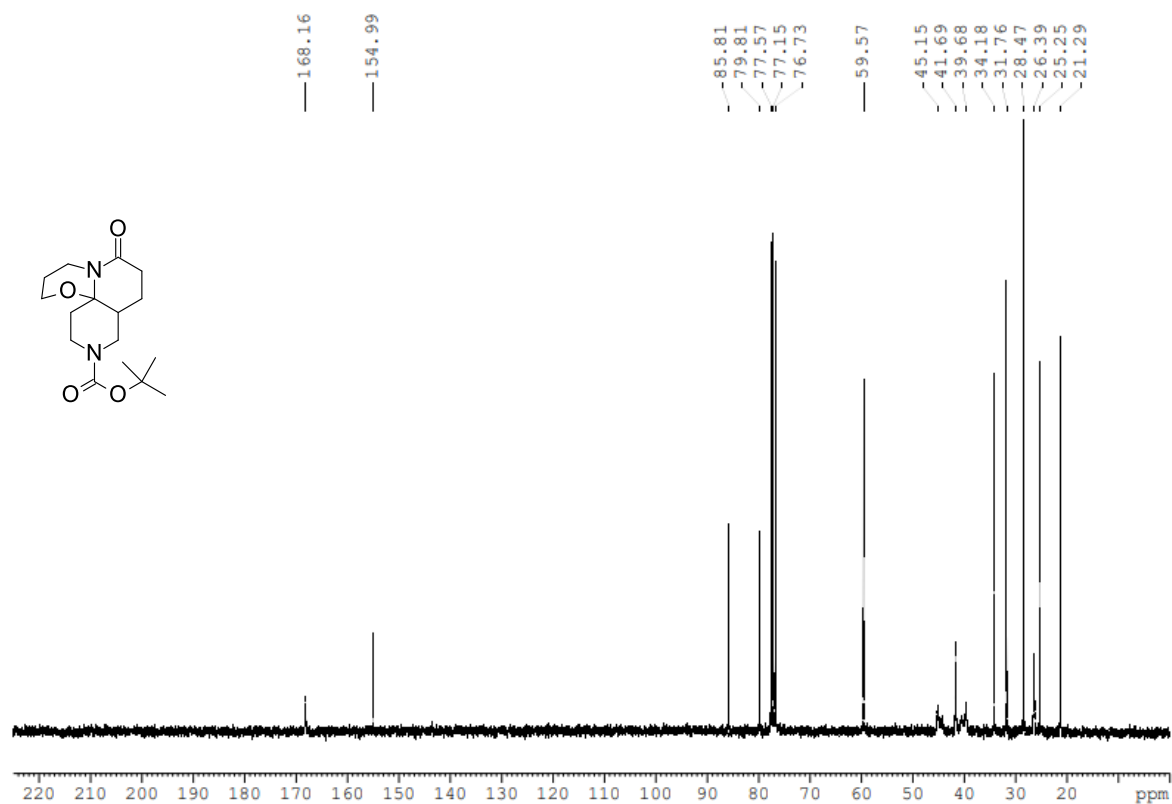
13, ^{13}C NMR (75 MHz, CD_2Cl_2)



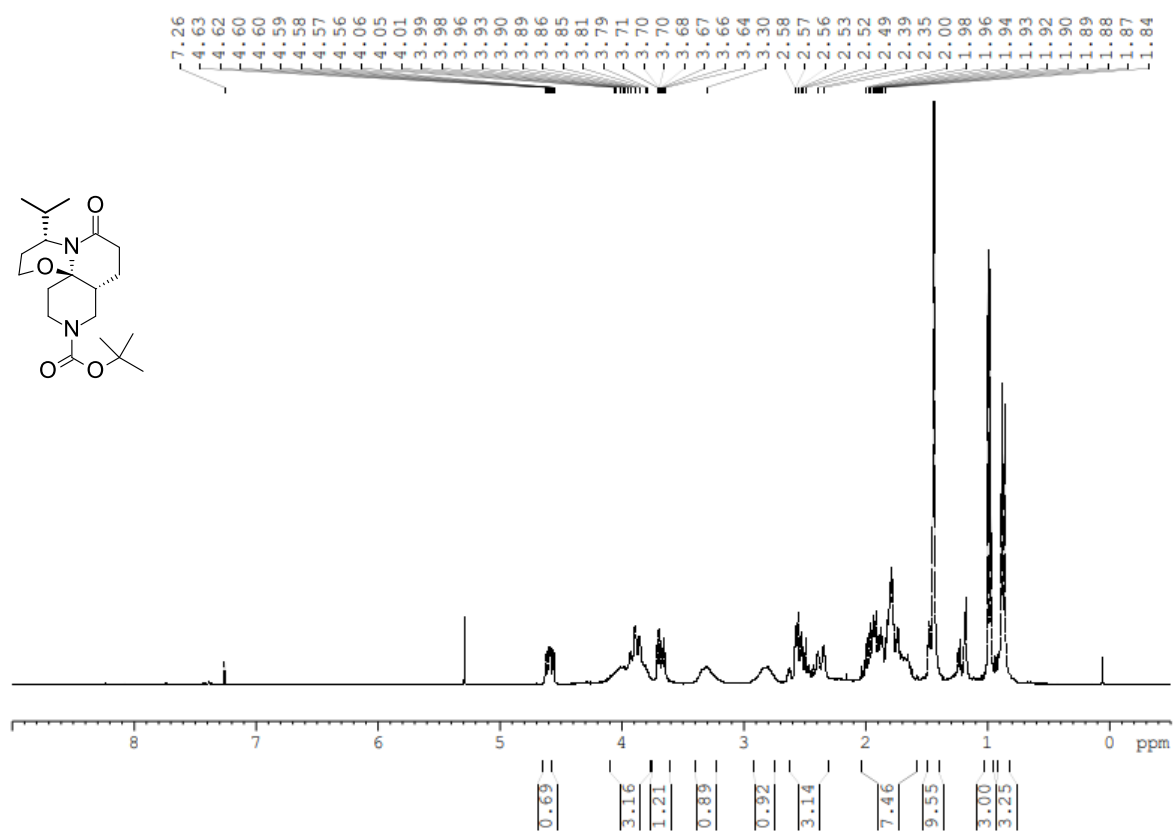
17, ^1H NMR (300 MHz, CDCl_3)



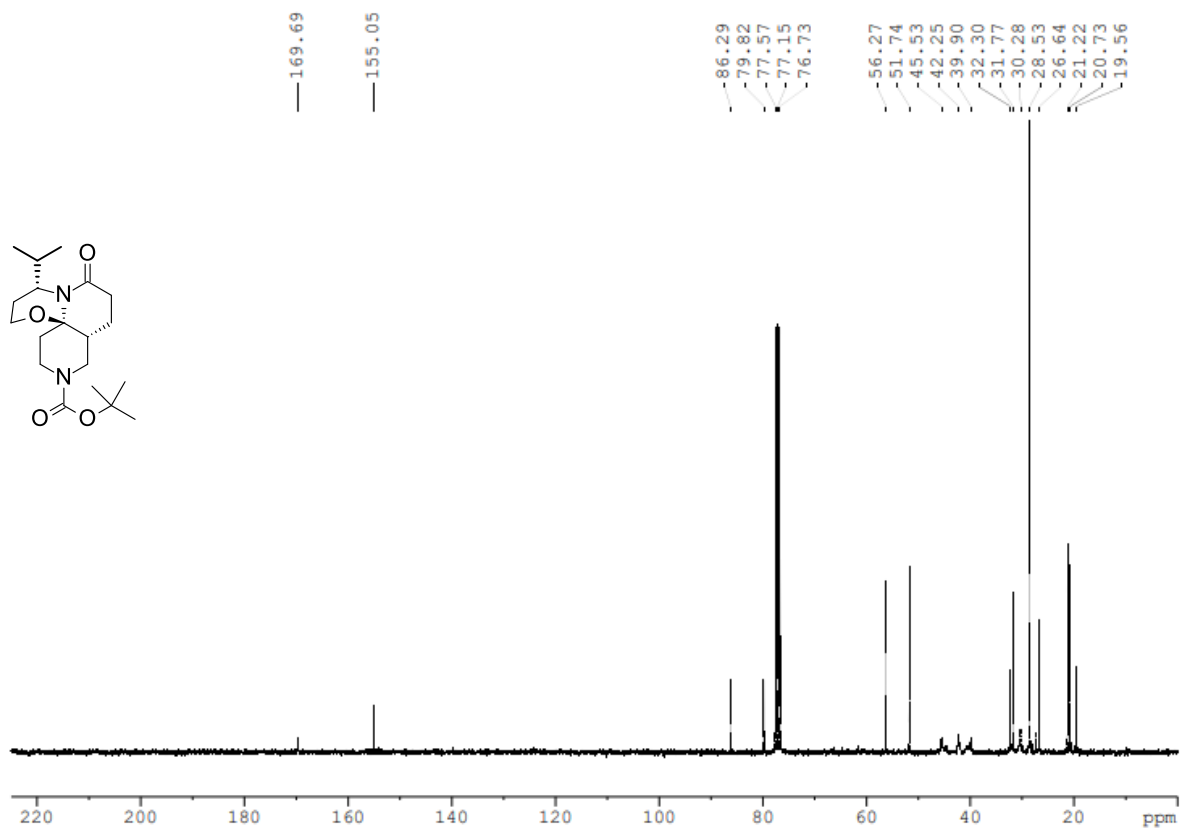
17, ^{13}C NMR (75 MHz, CDCl_3)



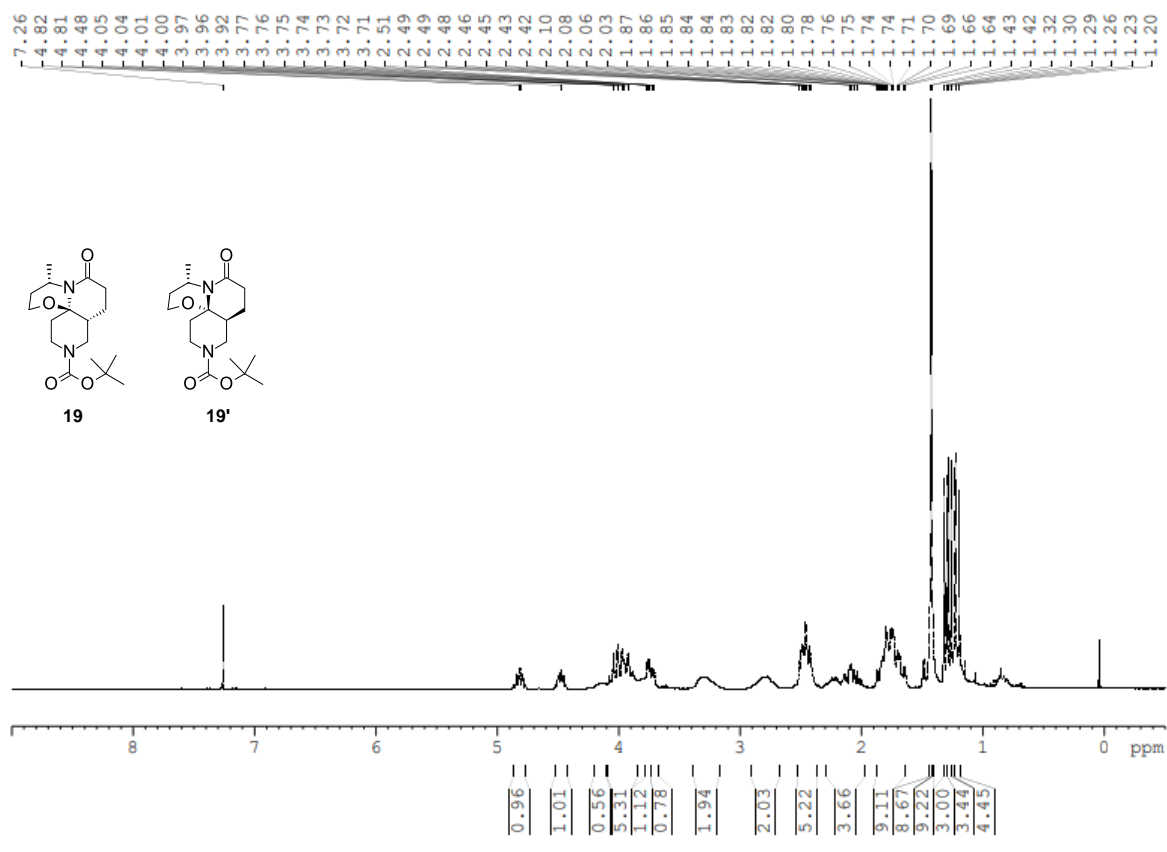
18, ^1H NMR (300 MHz, CDCl_3)



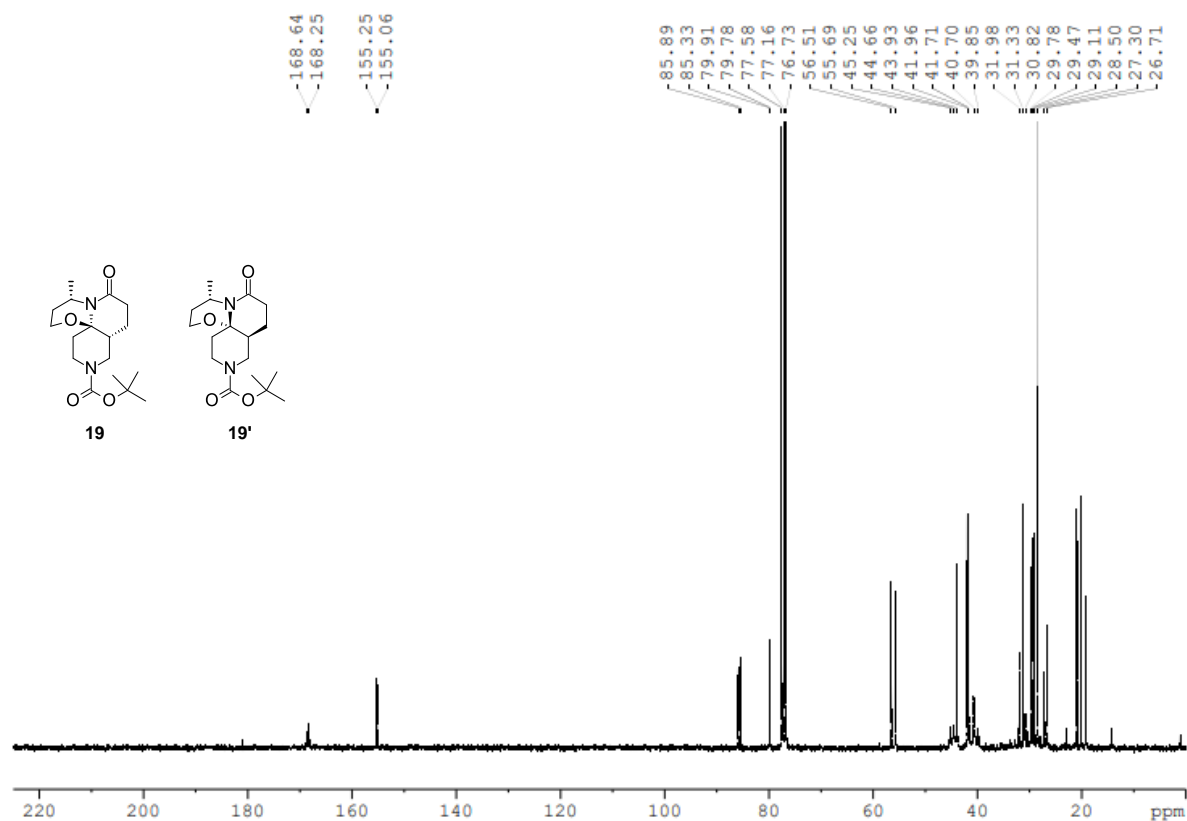
18, ^{13}C NMR (75 MHz, CDCl_3)



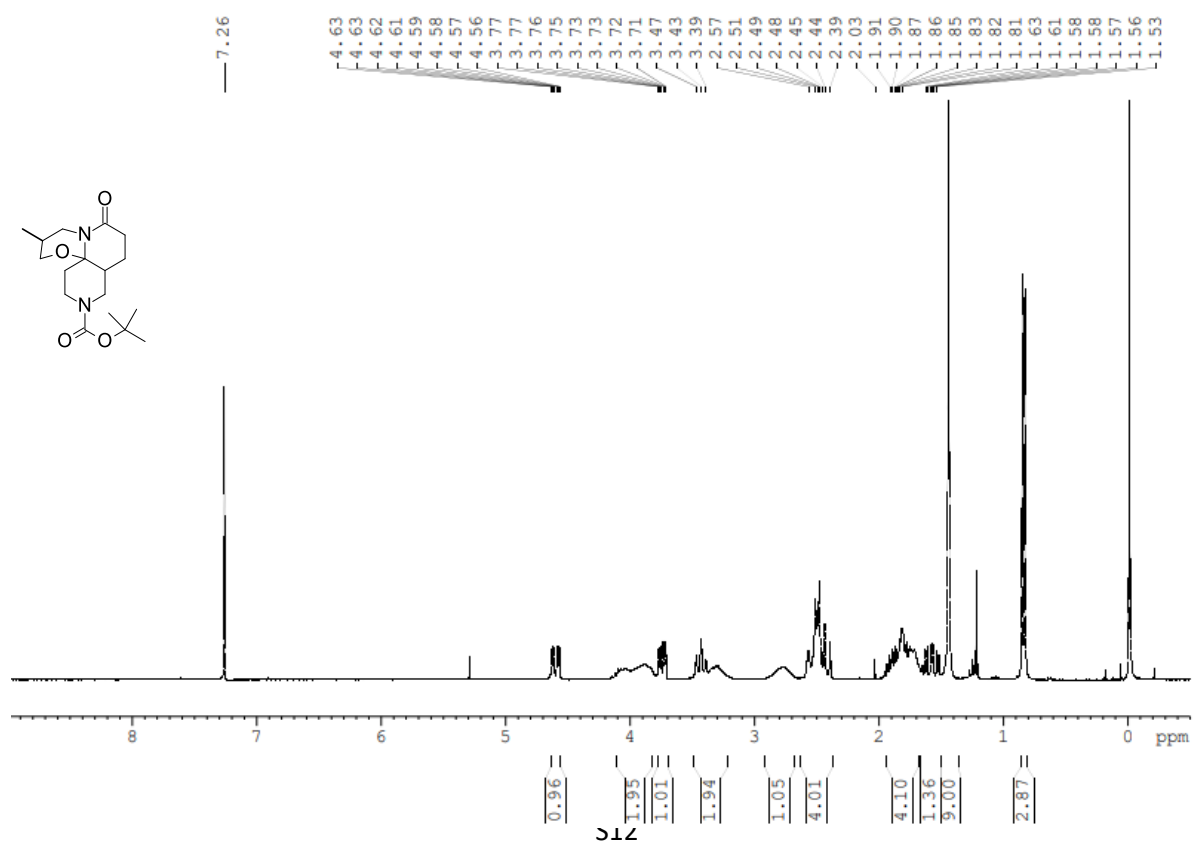
19+19', ^1H NMR (300 MHz, CDCl_3)



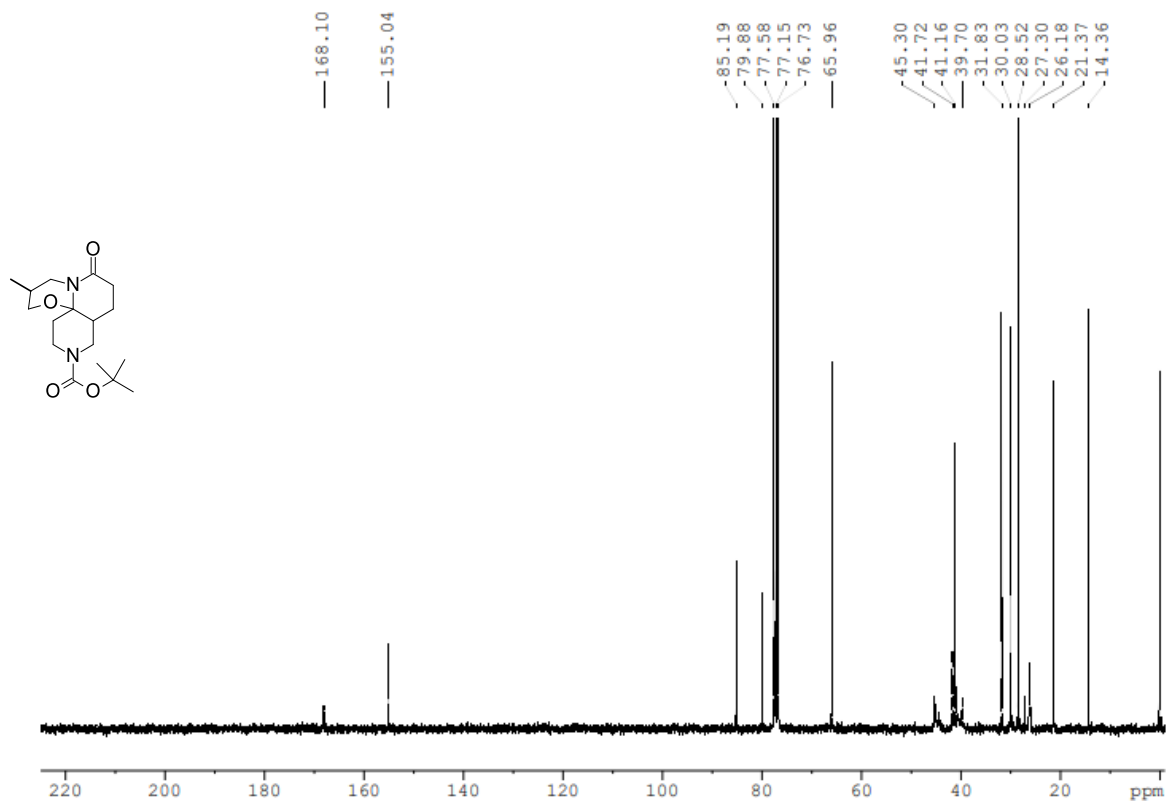
19+19', ^{13}C NMR (75 MHz, CDCl_3)



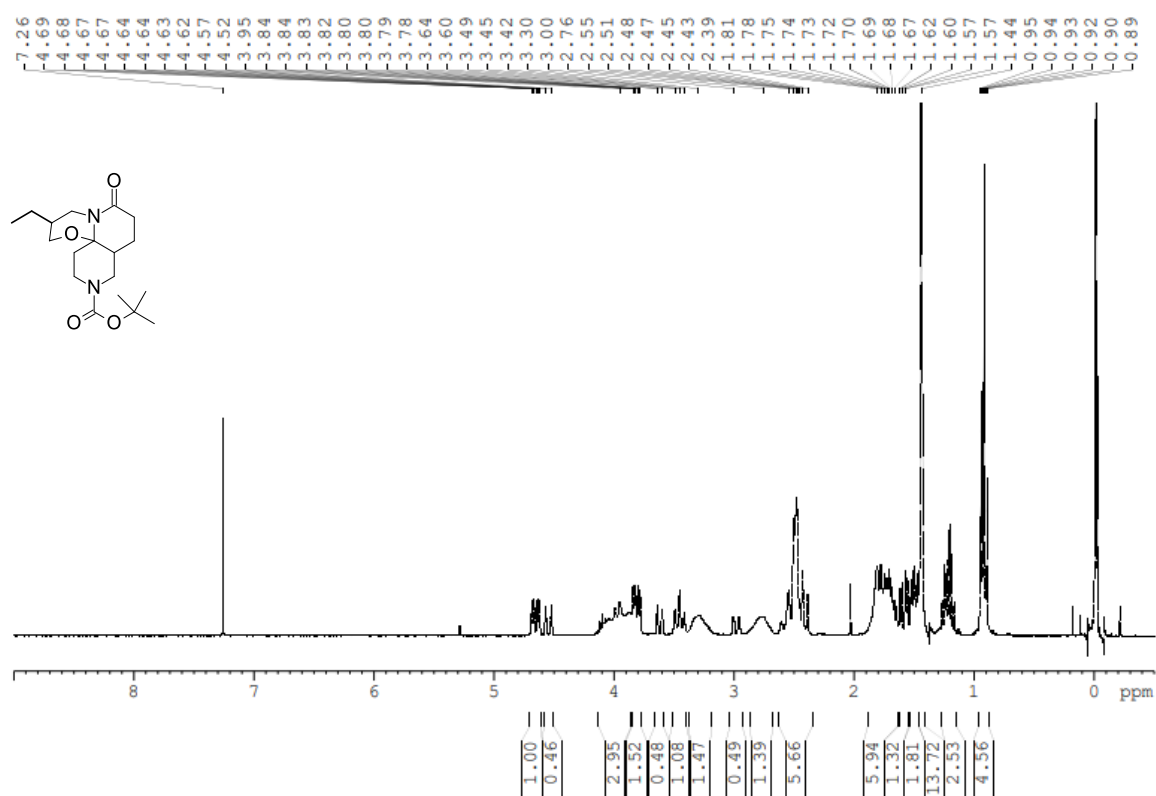
20, ^1H NMR (300 MHz, CDCl_3)



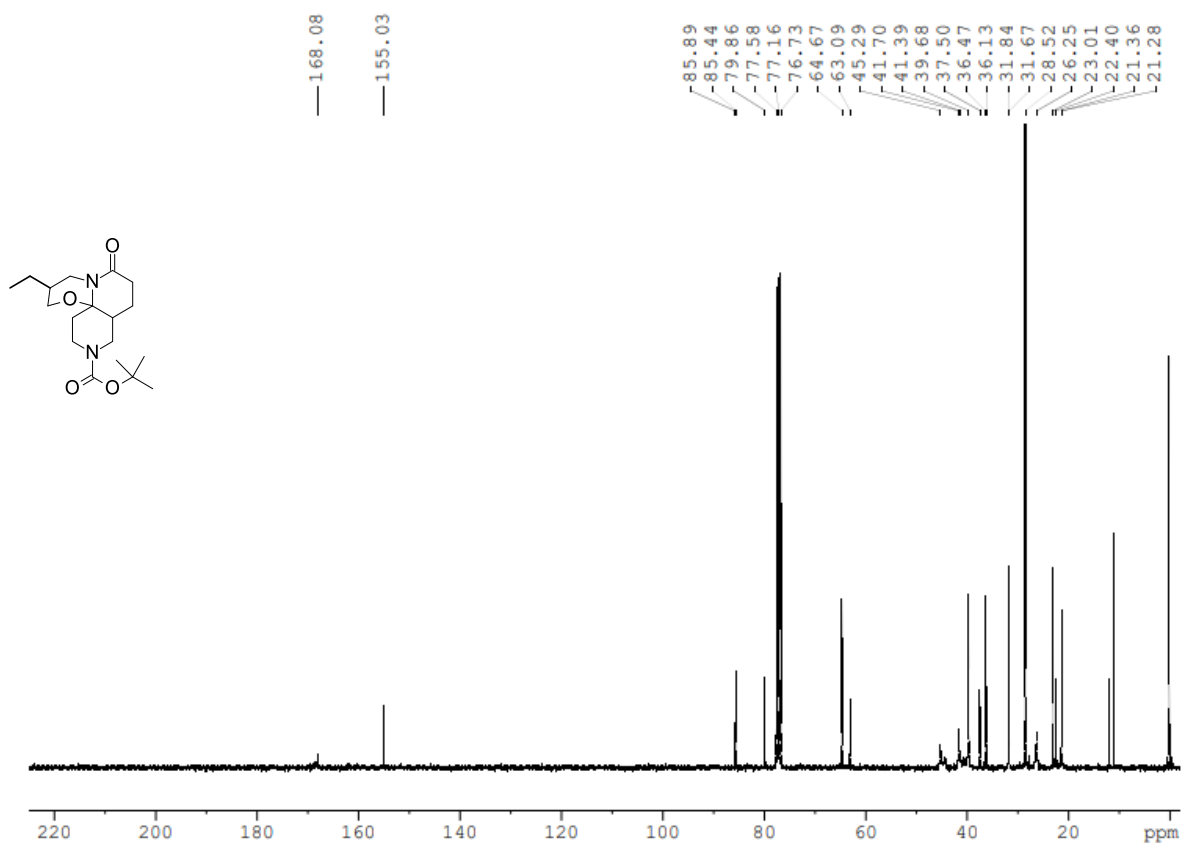
20, ^{13}C NMR (75 MHz, CDCl_3)



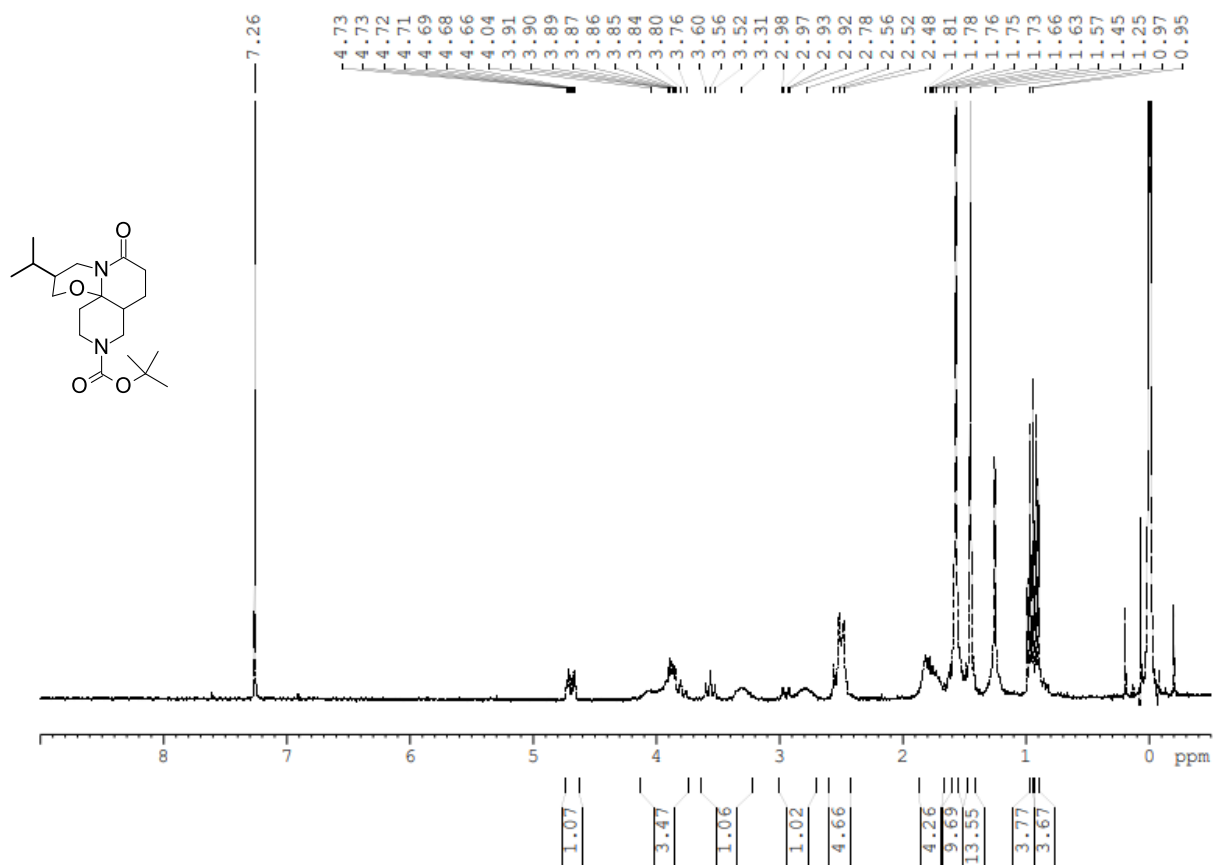
21, ^1H NMR (300 MHz, CDCl_3)



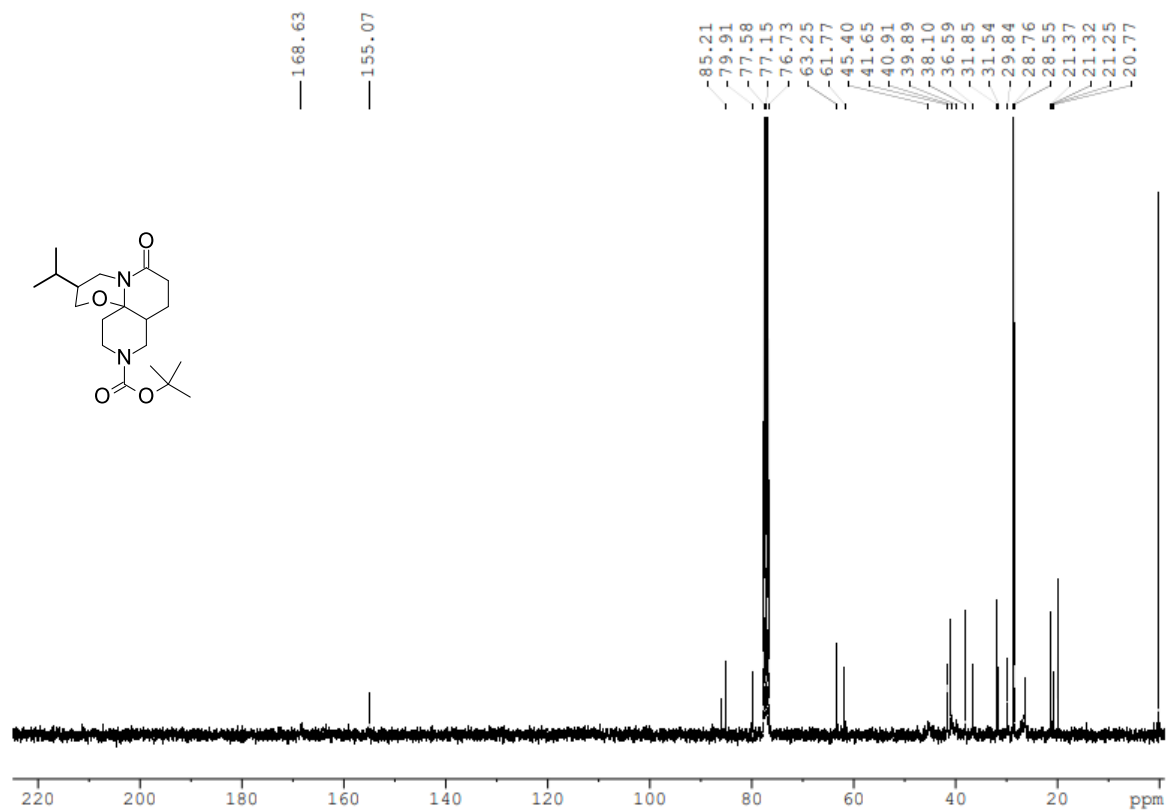
21, ^{13}C NMR (75 MHz, CDCl_3)



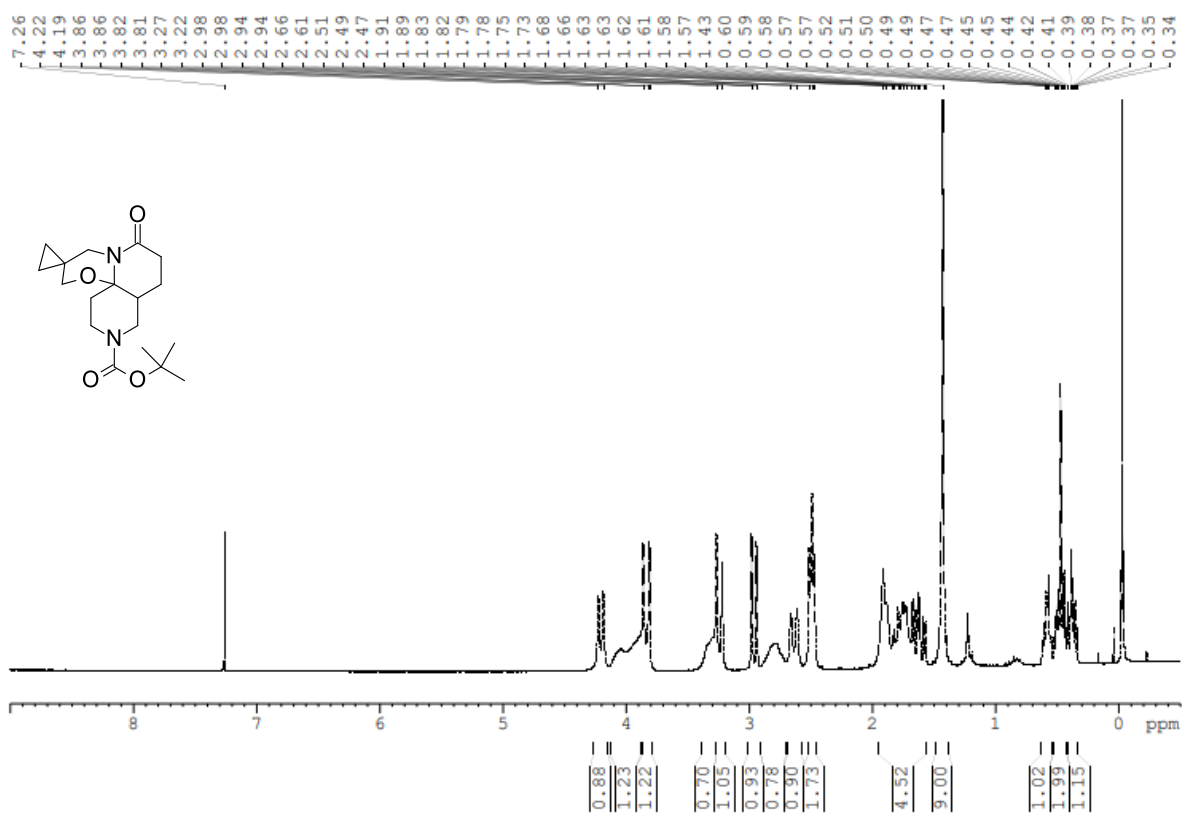
22, ^1H NMR (300 MHz, CDCl_3)



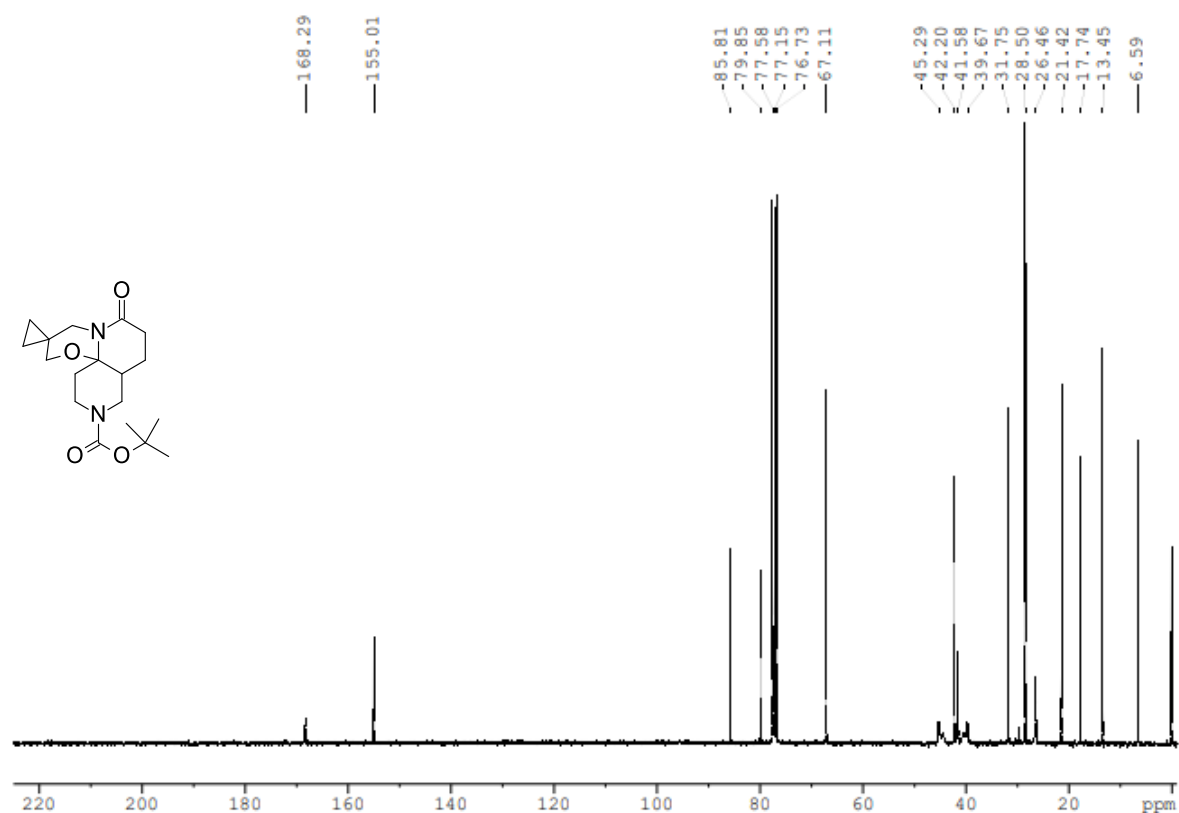
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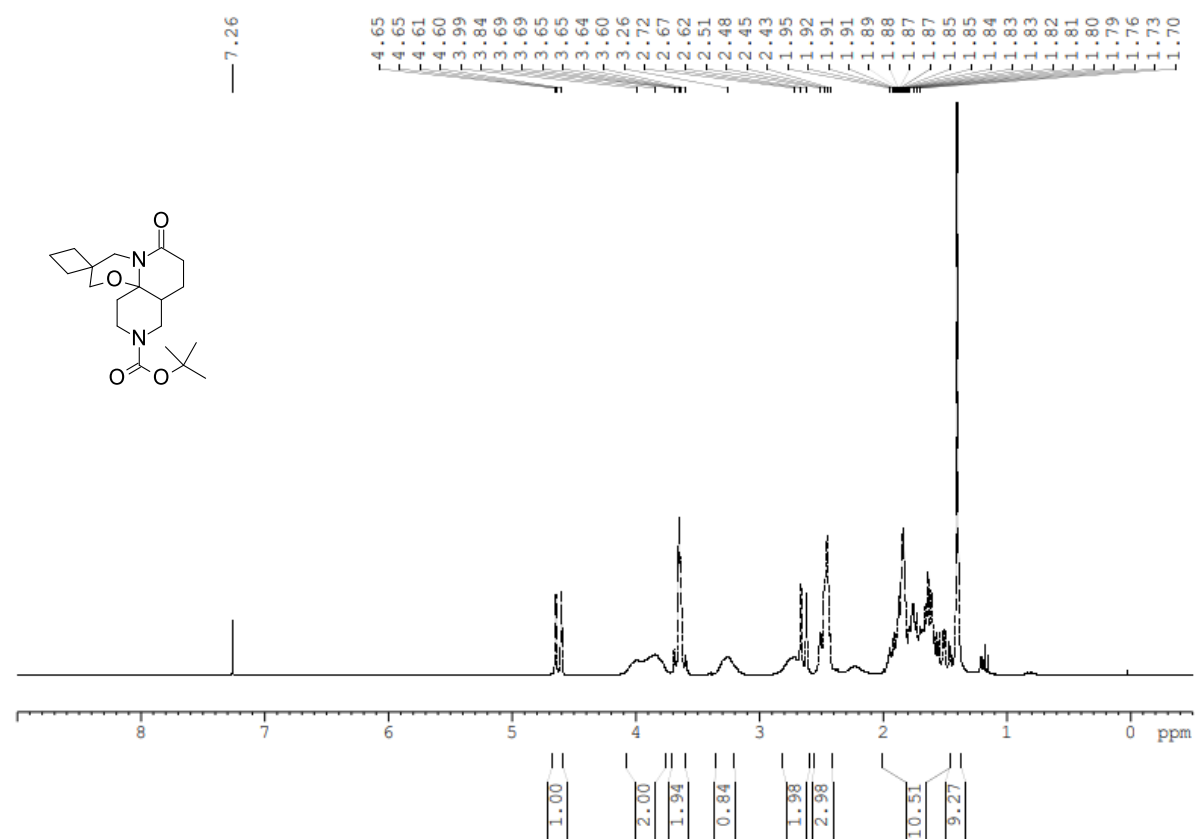
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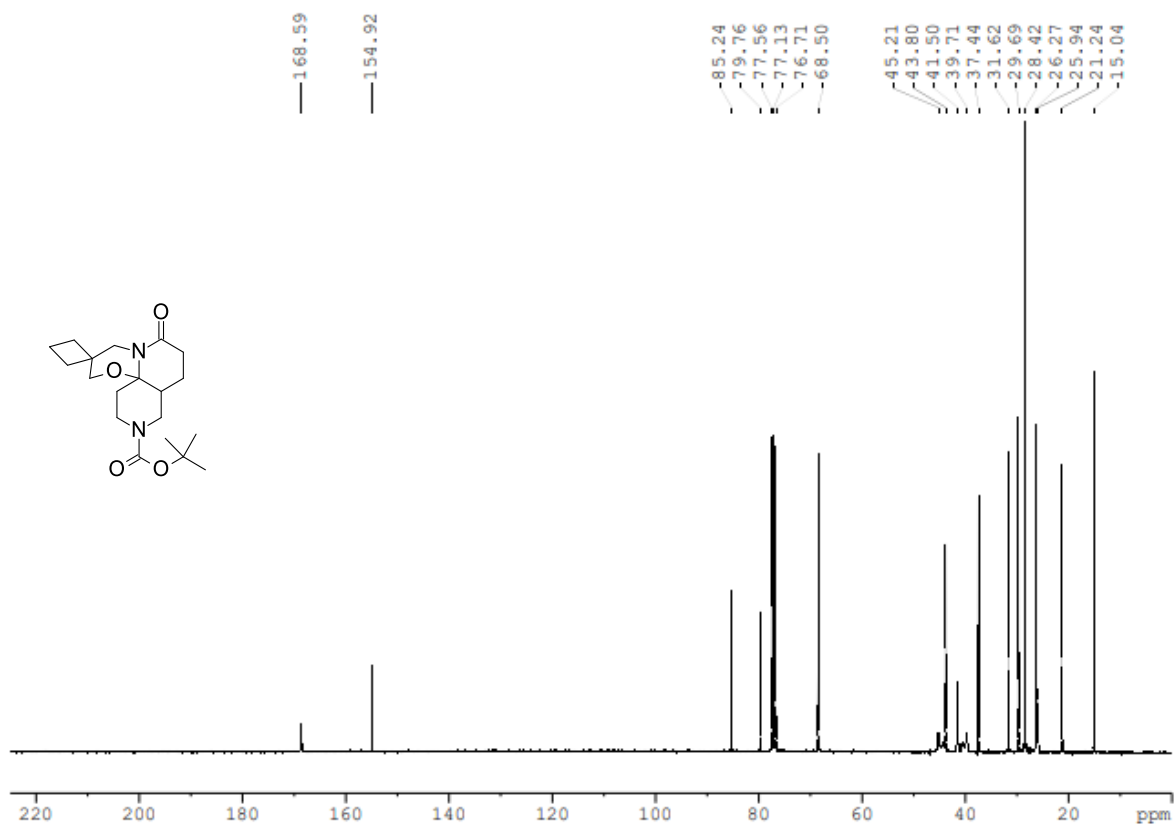
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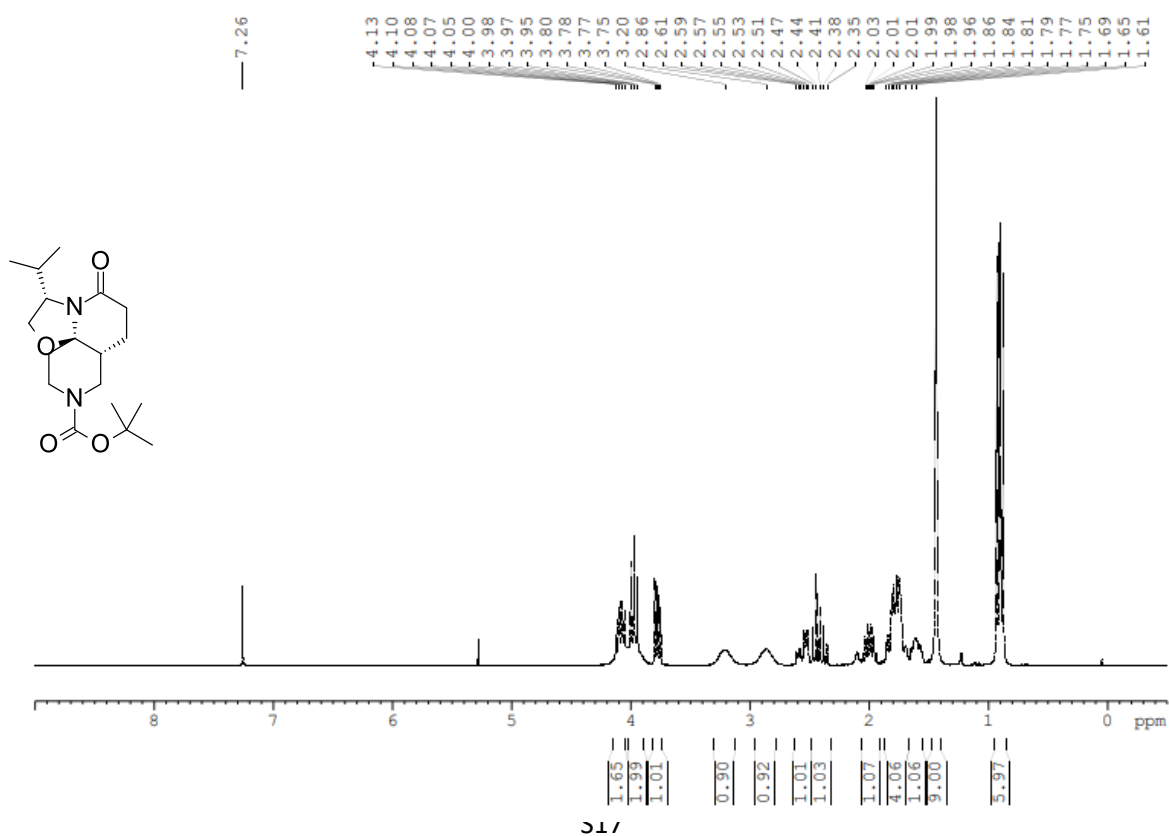
24, ^1H NMR (300 MHz, CDCl_3)



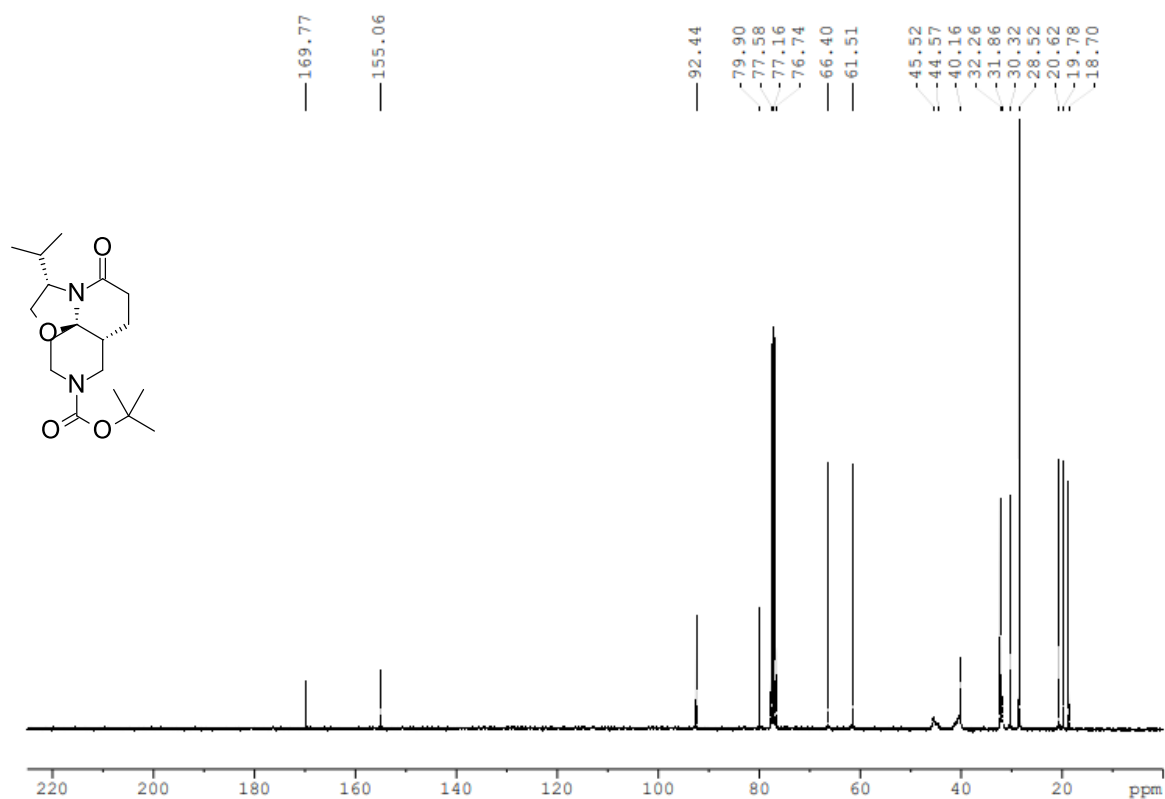
24, ^{13}C NMR (75 MHz, CDCl_3)



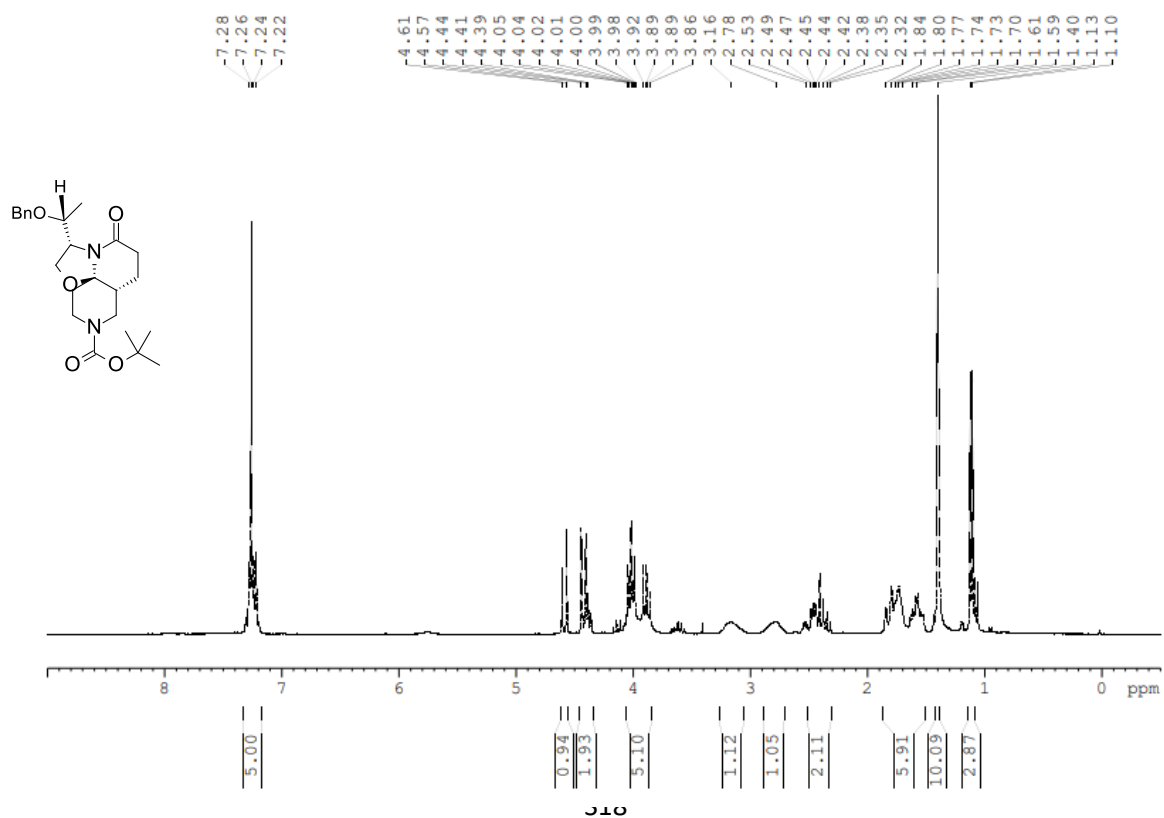
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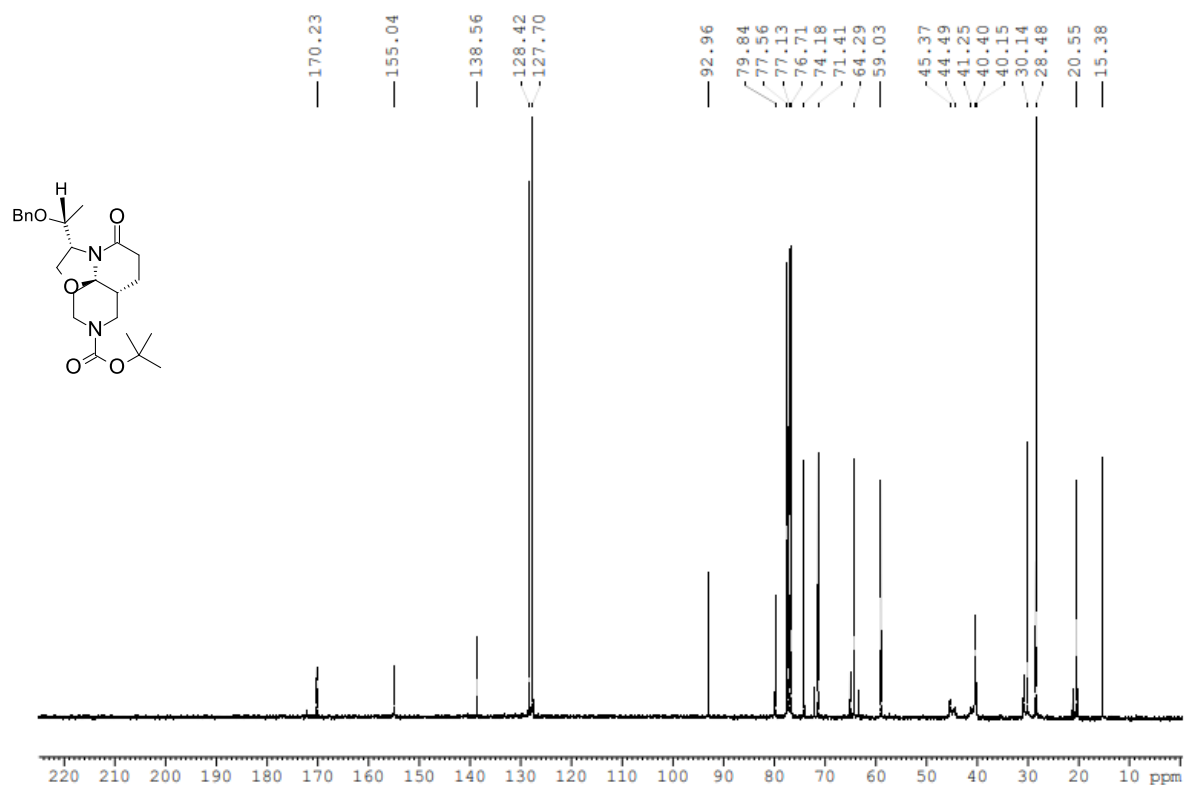
25, ^{13}C NMR (75 MHz, CDCl_3)



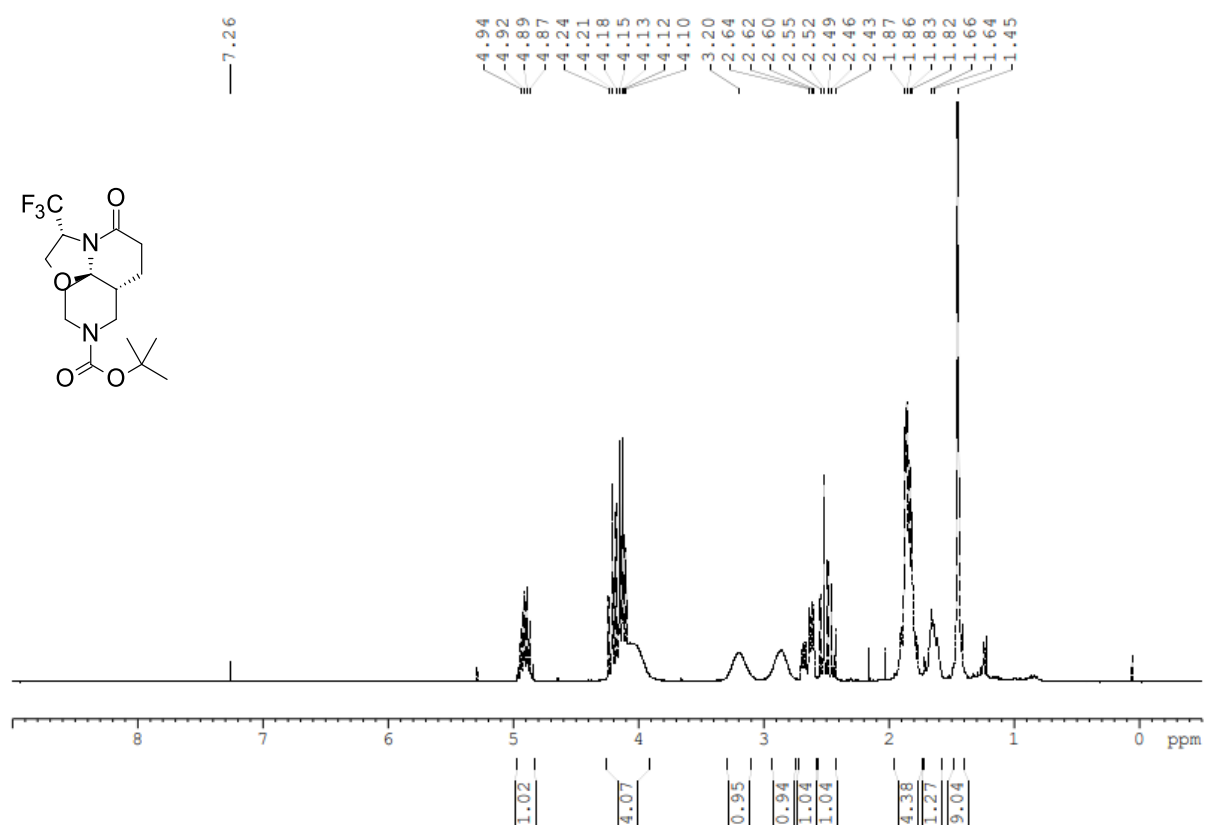
26, ^1H NMR (300 MHz, CDCl_3)



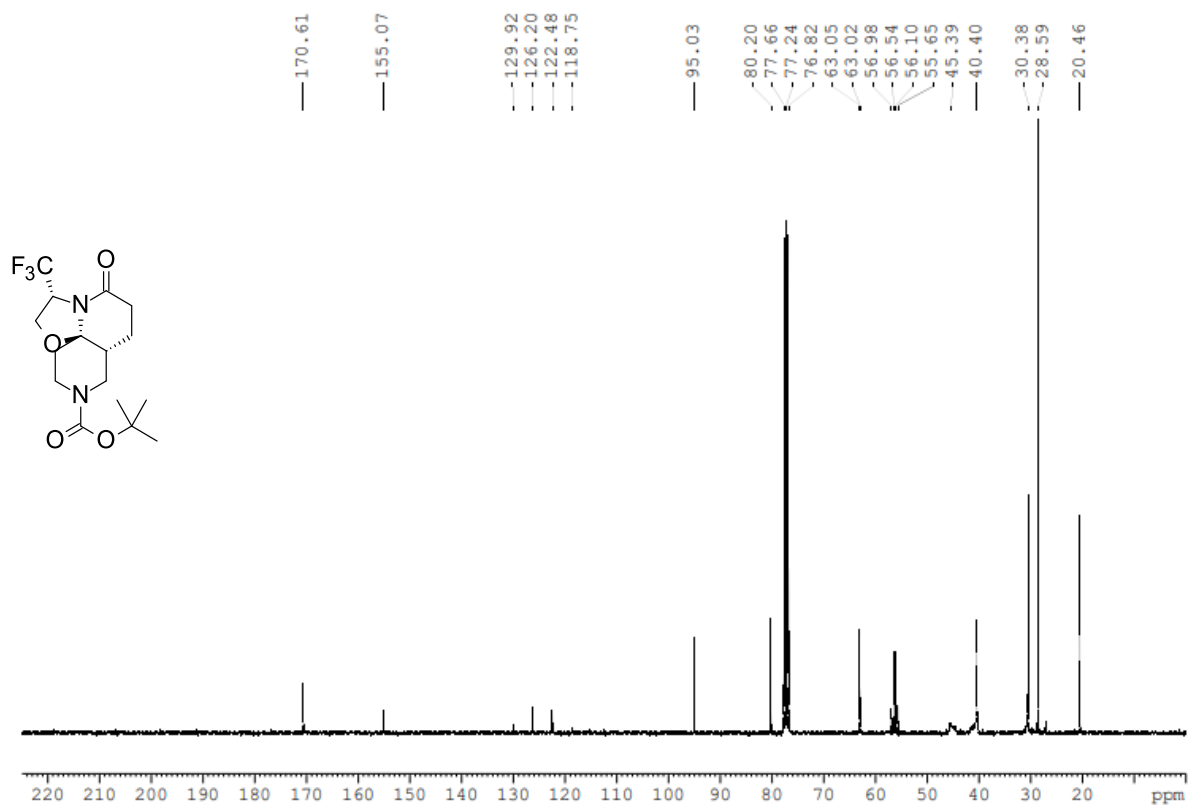
26, ^{13}C NMR (75 MHz, CDCl_3)



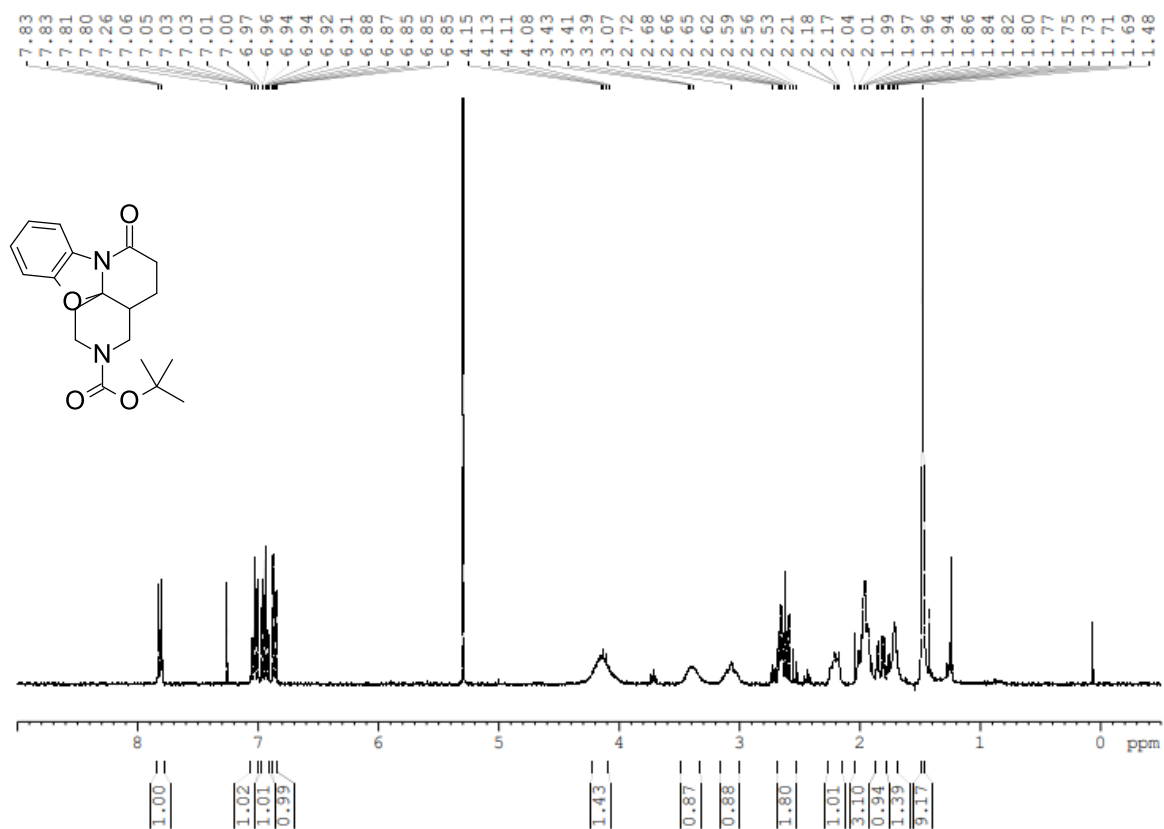
27, ^1H NMR (300 MHz, CDCl_3)



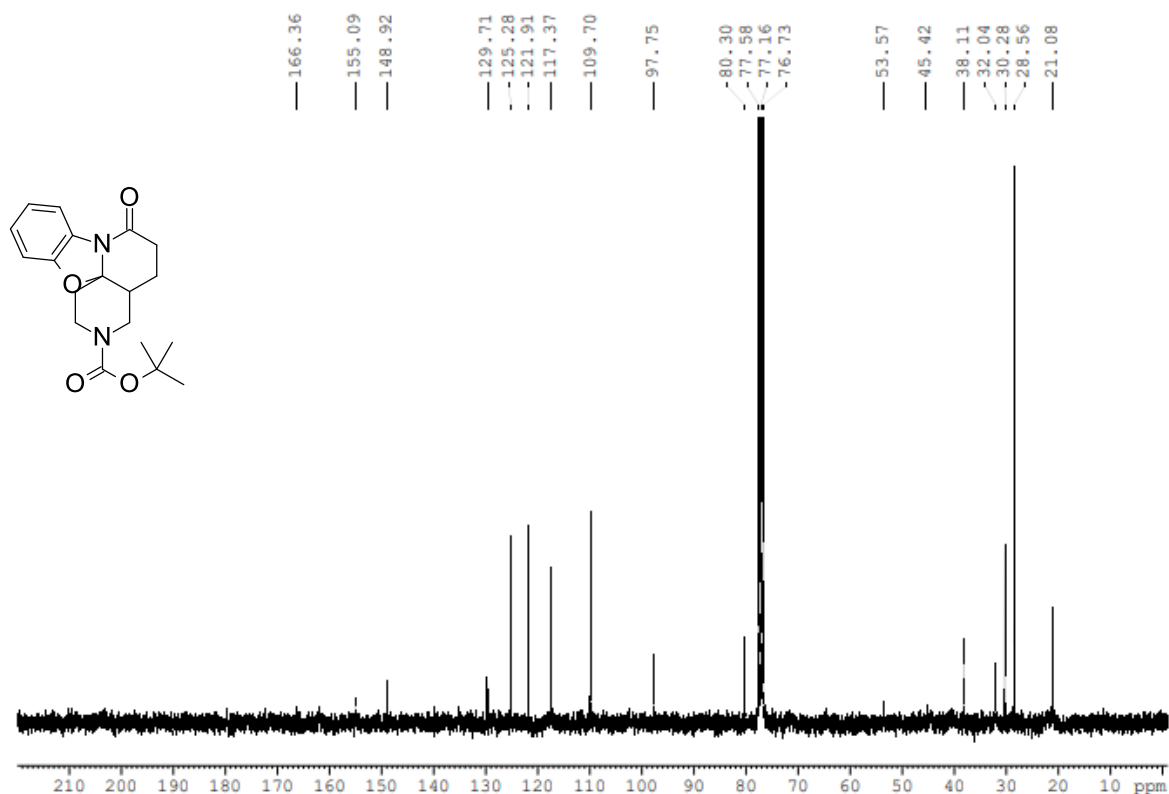
27, ^{13}C NMR (75 MHz, CDCl_3)



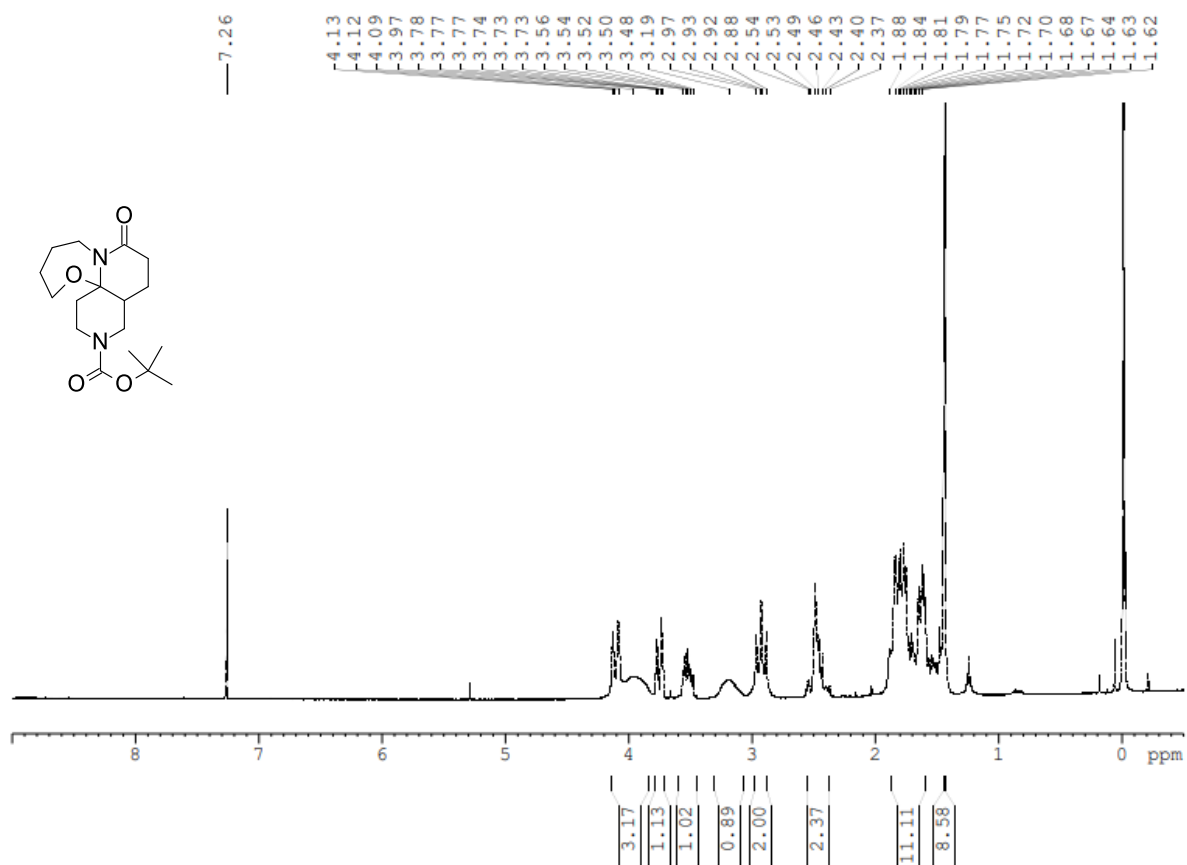
28, ^1H NMR (300 MHz, CDCl_3)



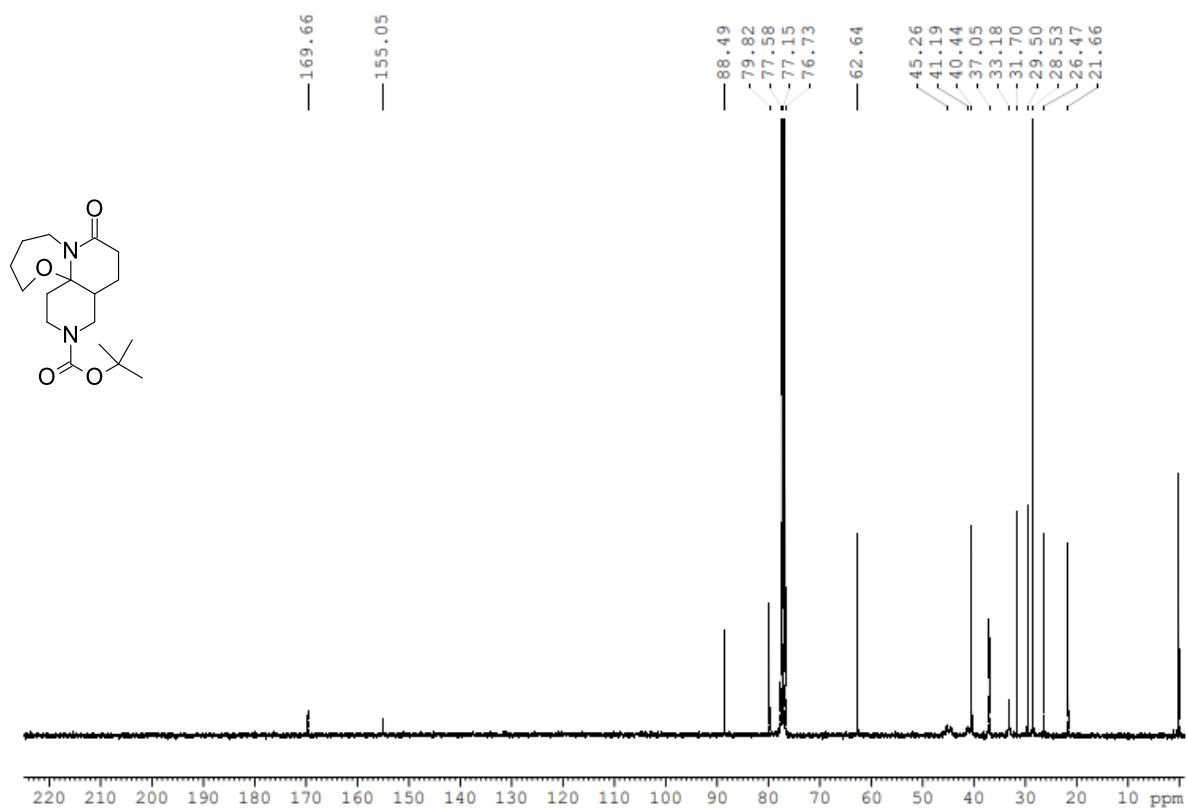
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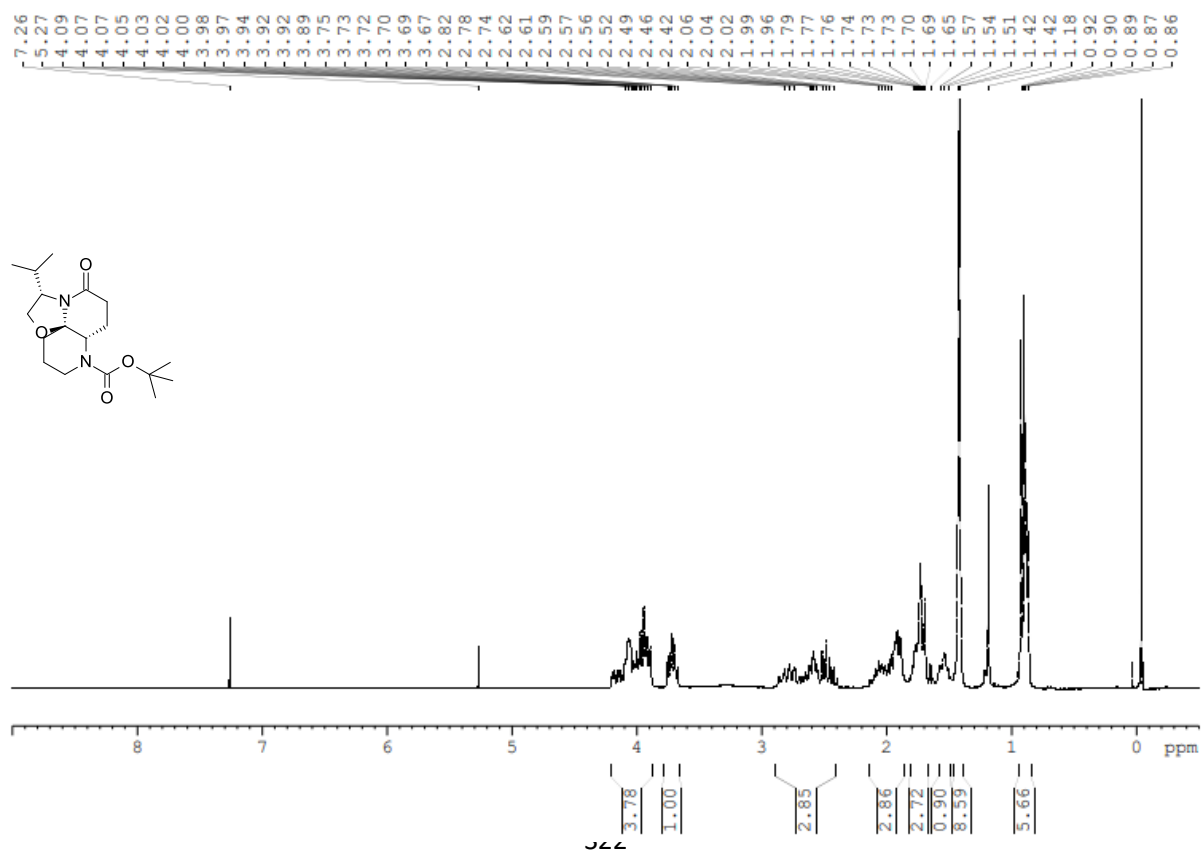
29, ^1H NMR (300 MHz, CDCl_3)



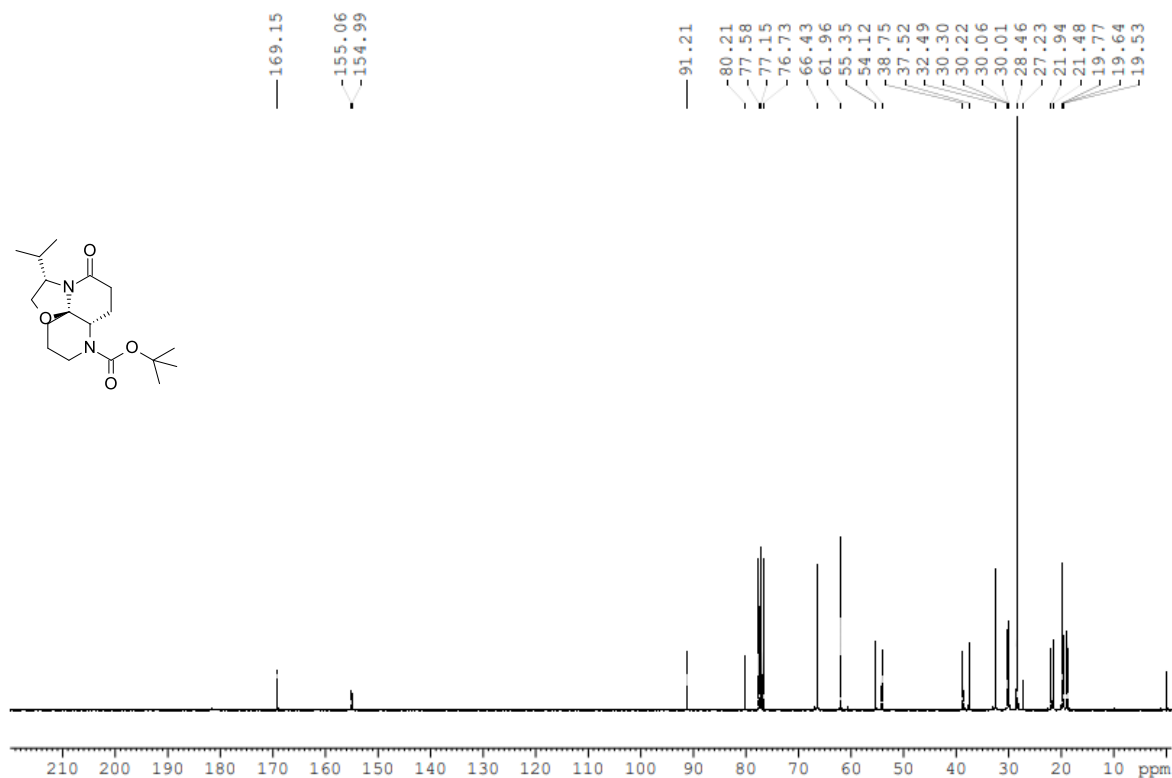
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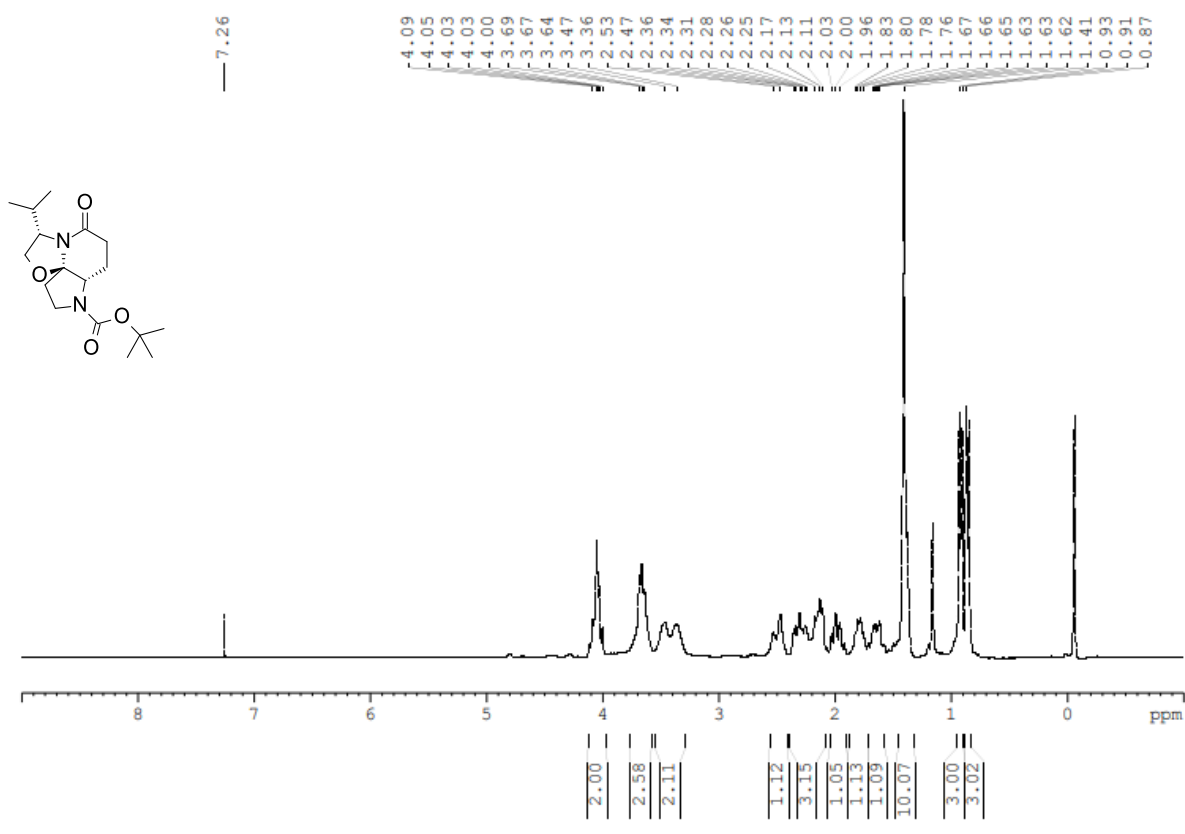
31, ^1H NMR (300 MHz, CDCl_3)



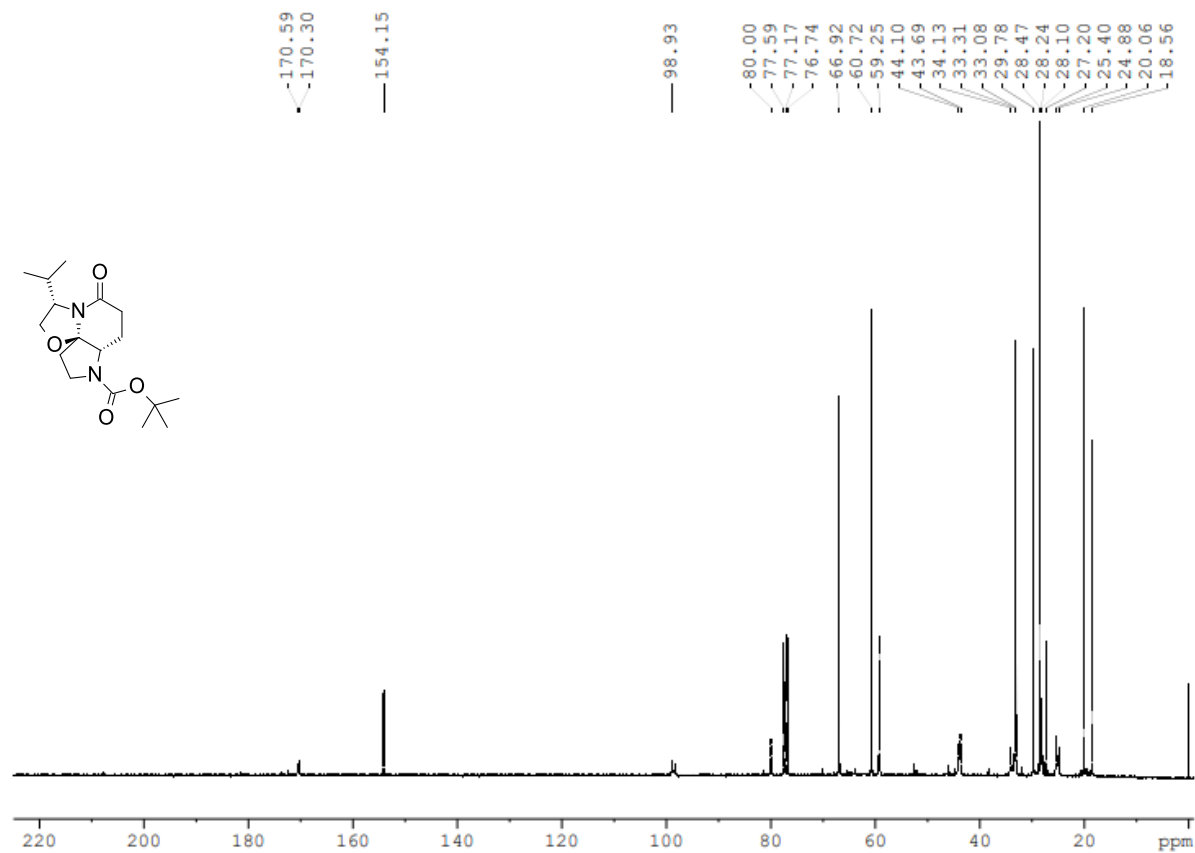
31, ^{13}C NMR (75 MHz, CDCl_3)



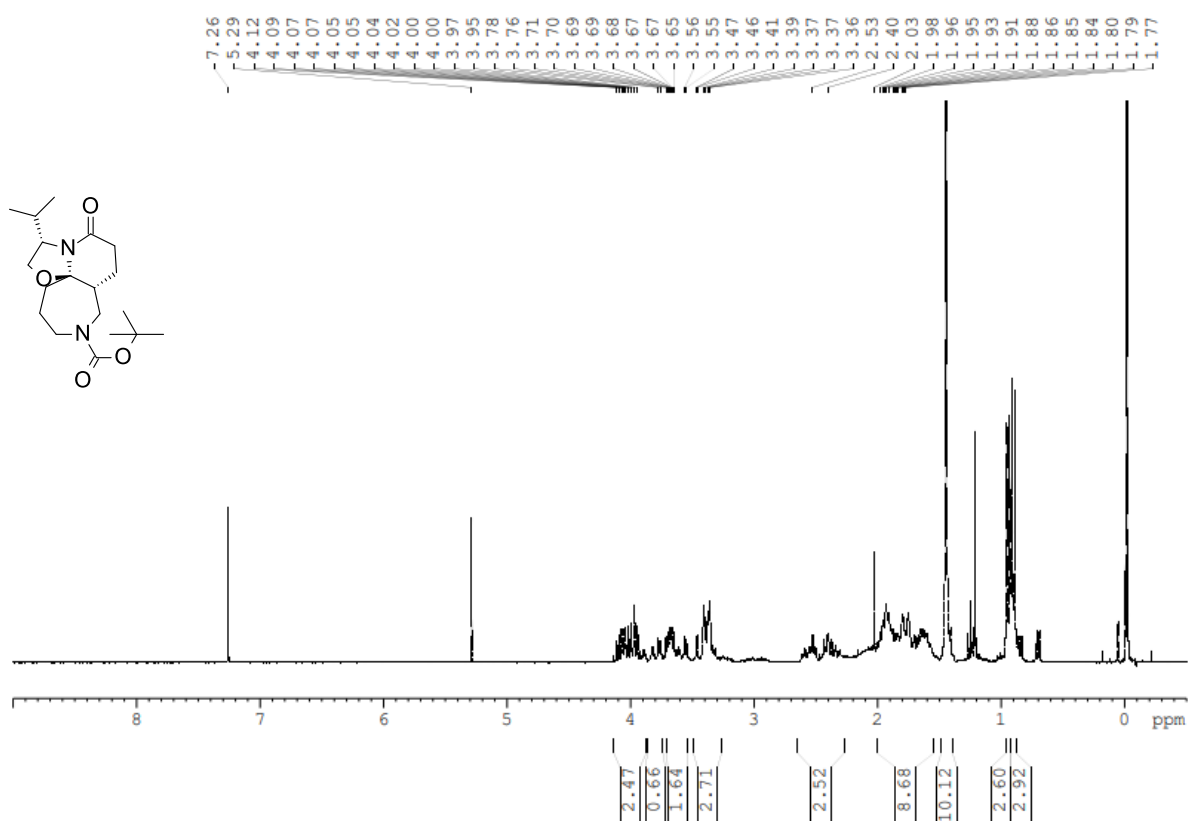
33, ^1H NMR (300 MHz, CDCl_3)



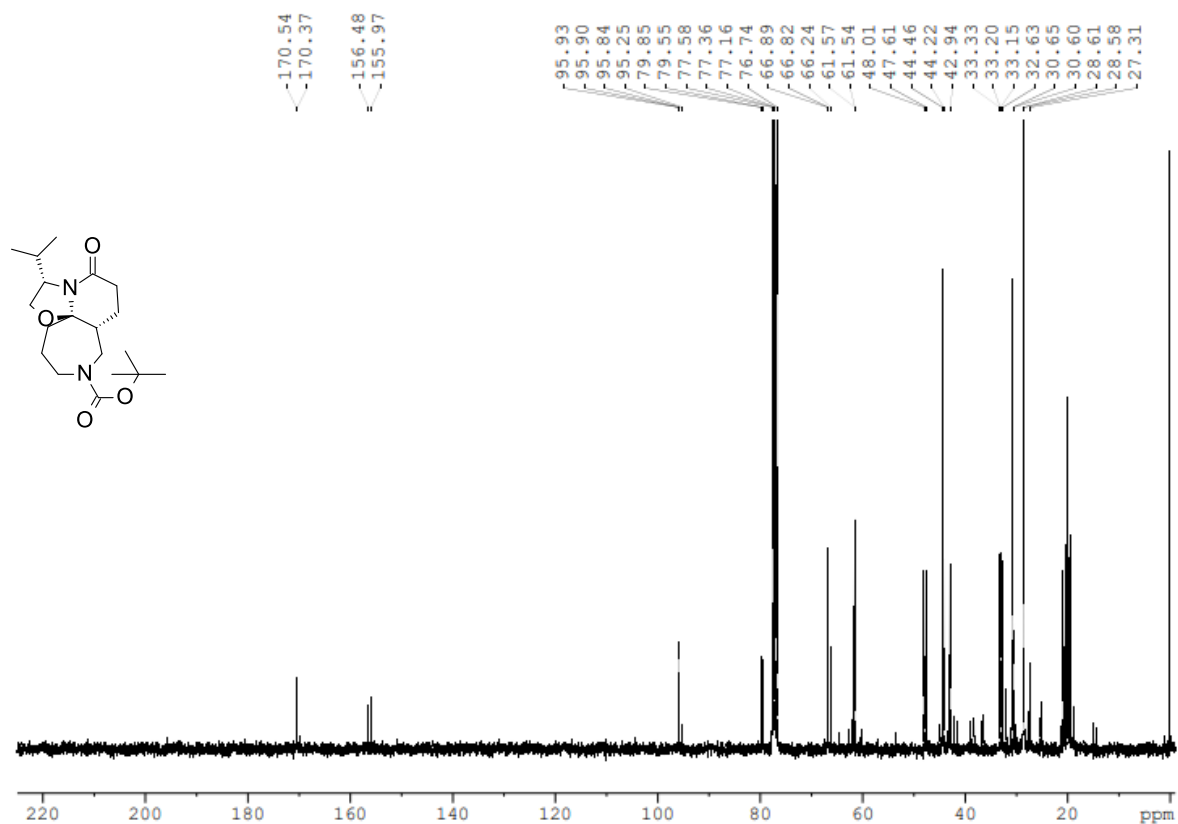
33, ^{13}C NMR (75 MHz, CDCl_3)



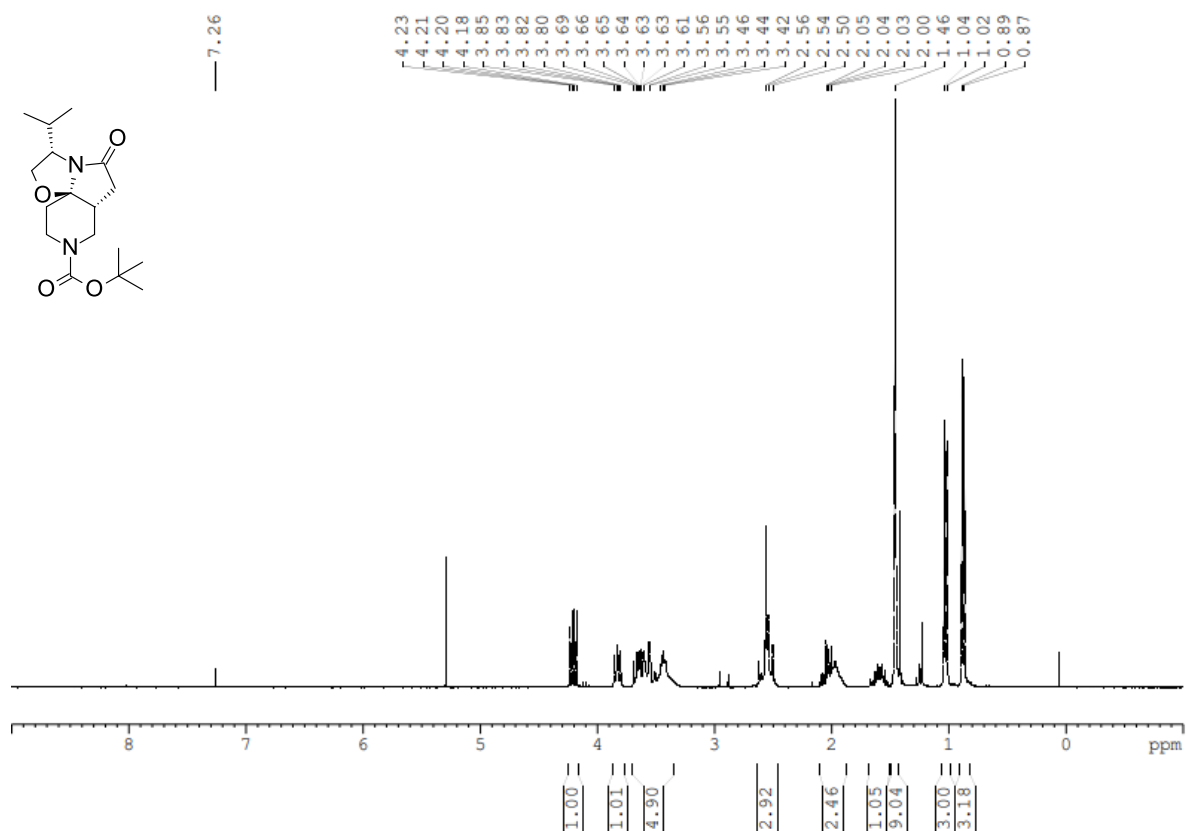
35, ^1H NMR (300 MHz, CDCl_3)



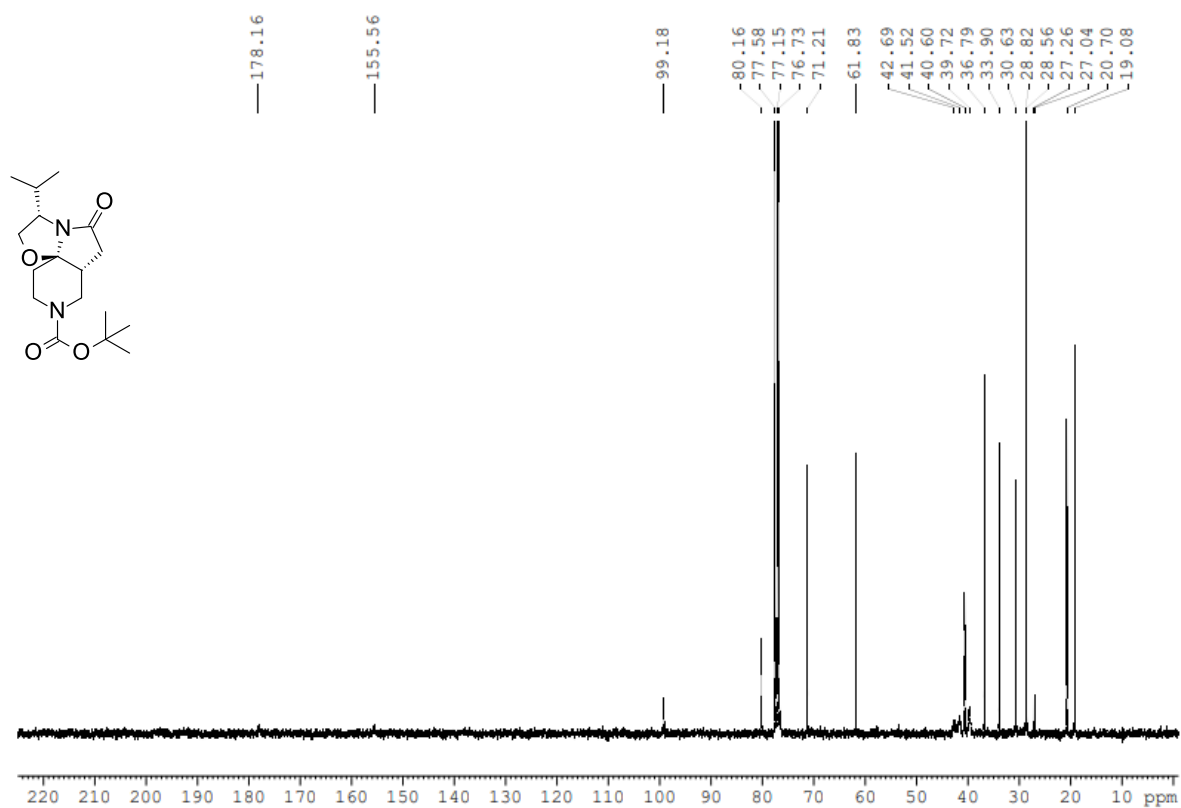
35, ^{13}C NMR (75 MHz, CDCl_3)



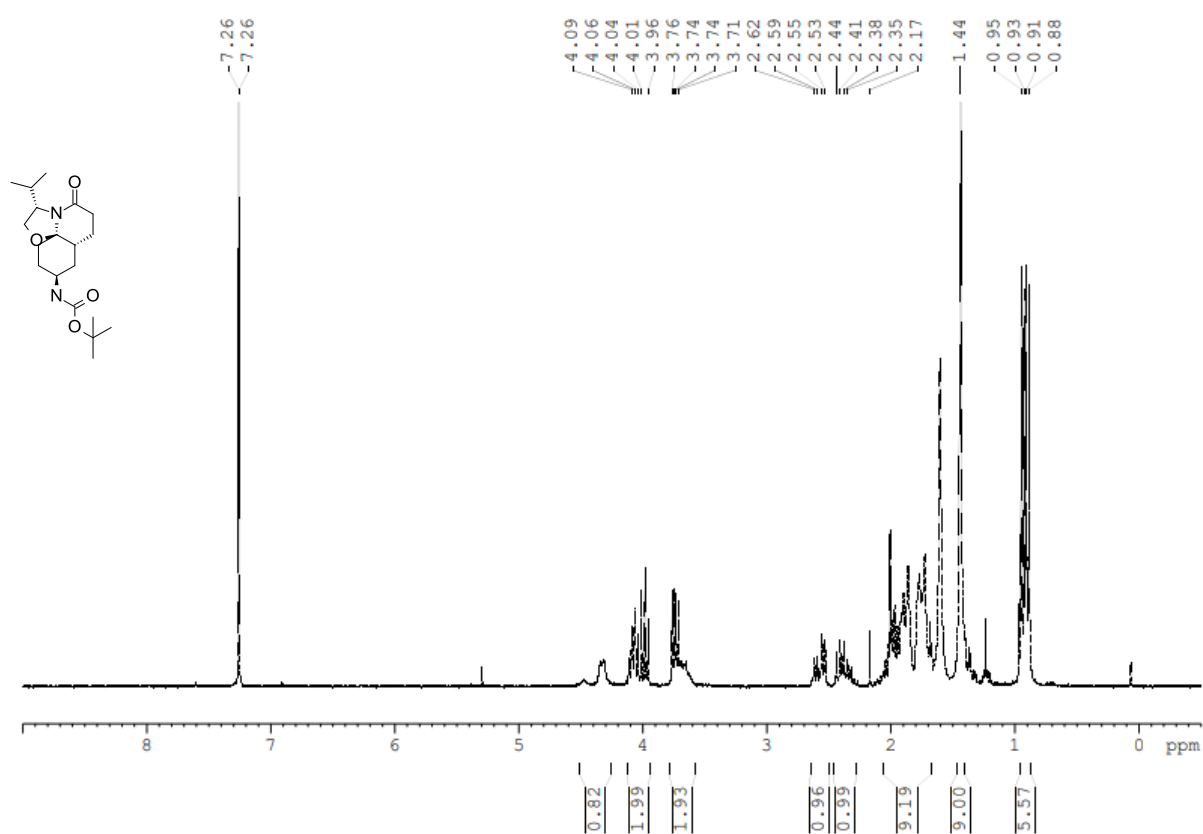
37, ^1H NMR (300 MHz, CDCl_3)



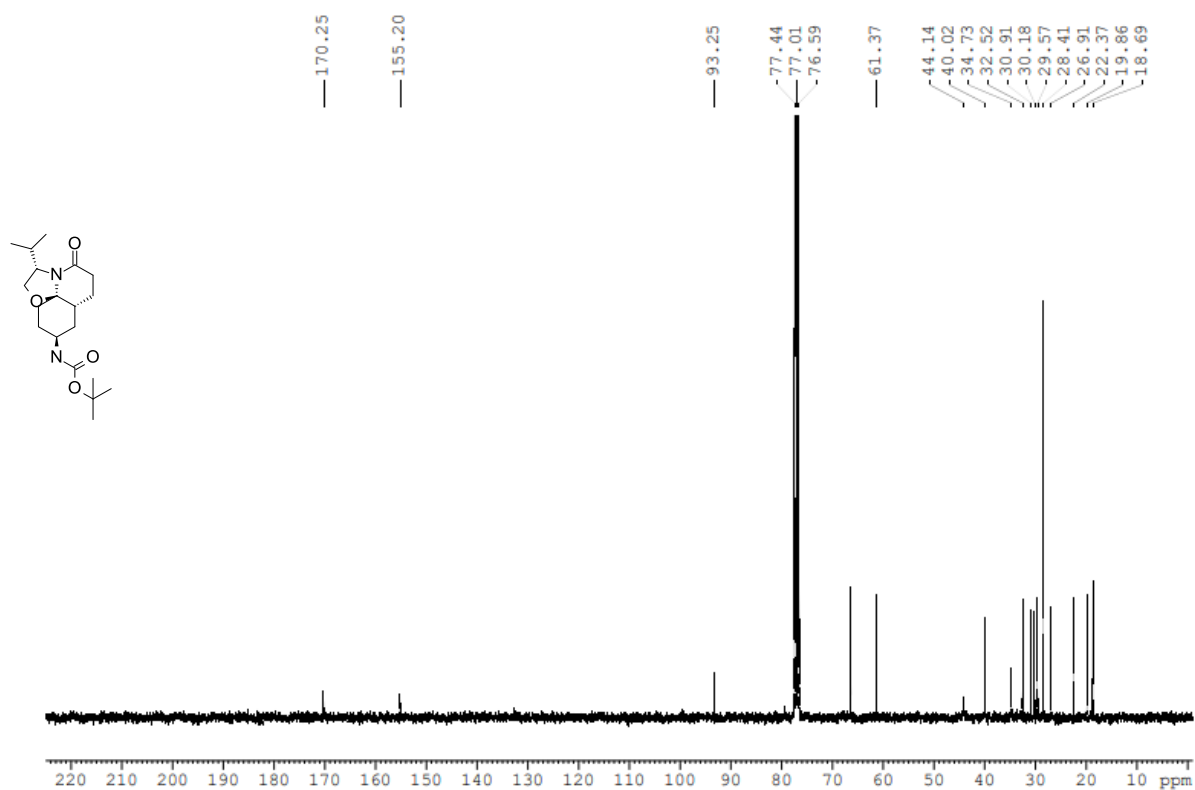
37, ^{13}C NMR (75 MHz, CDCl_3)



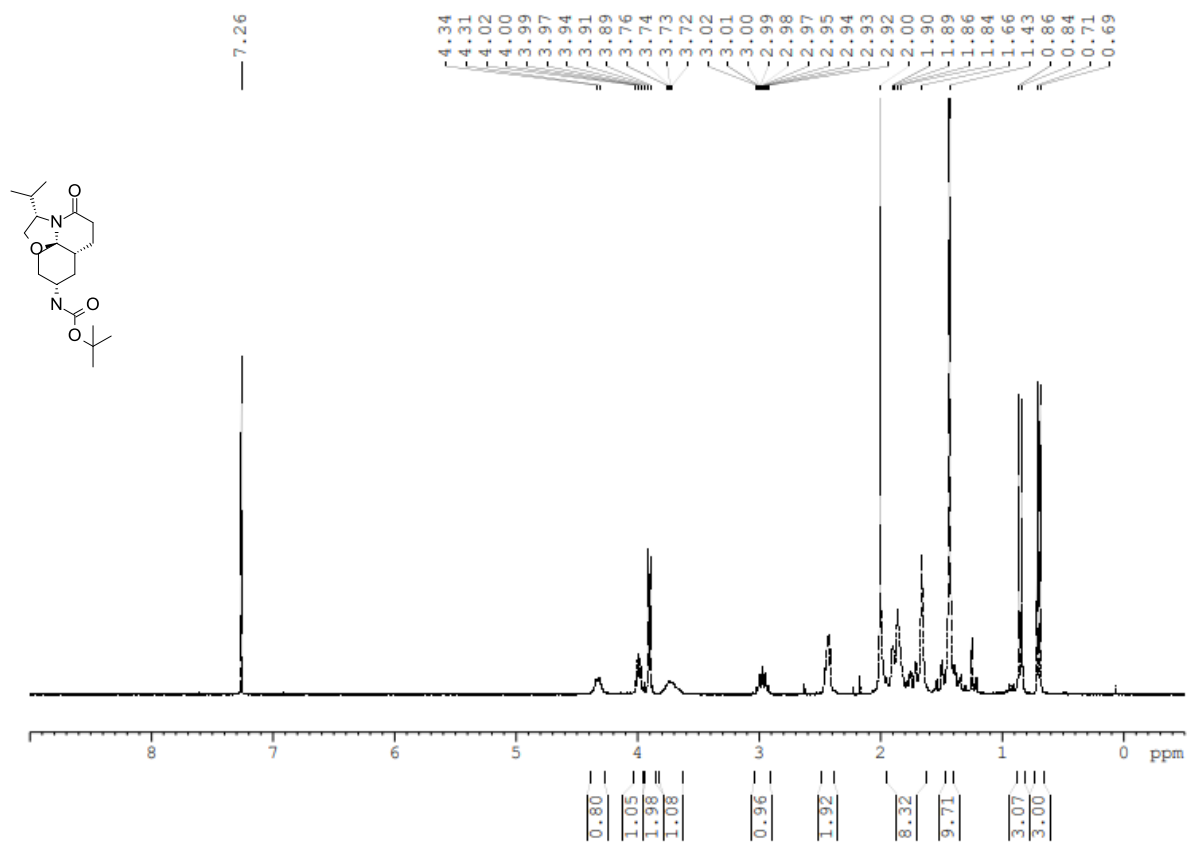
39, ^1H NMR (300 MHz, CDCl_3)



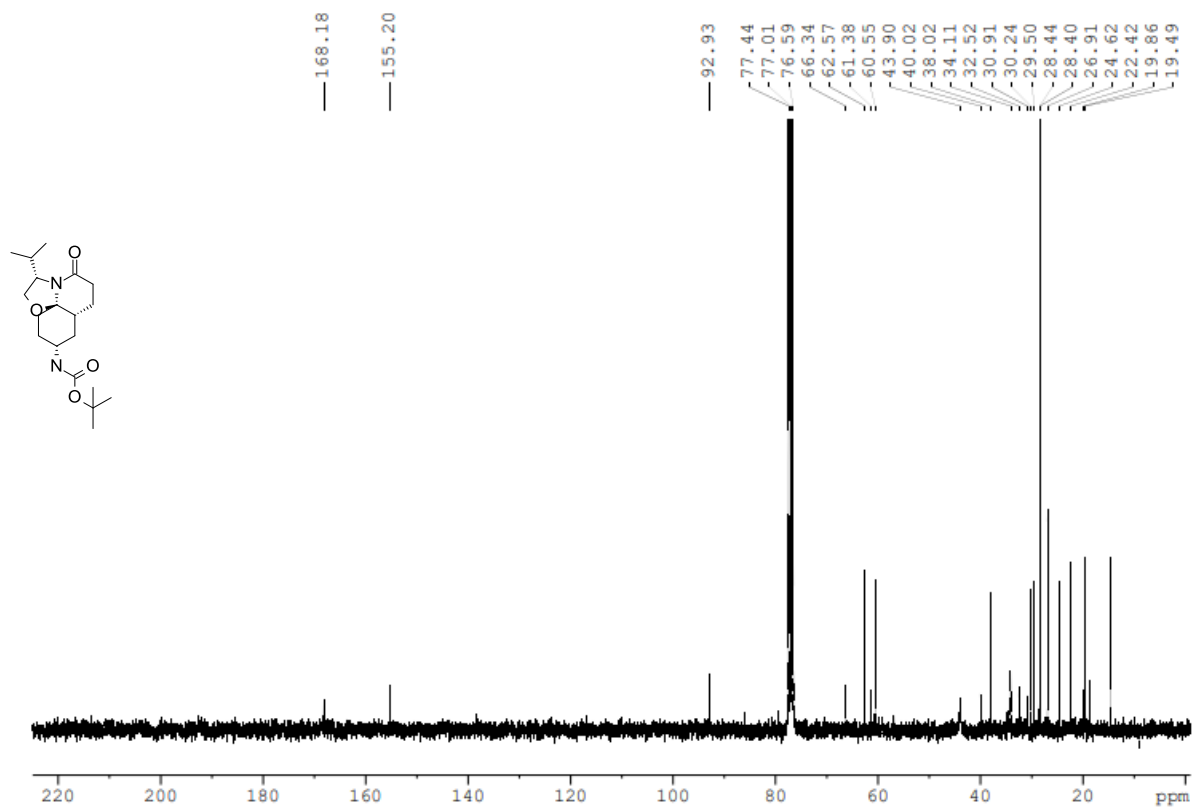
39, ^{13}C NMR (75 MHz, CDCl_3)



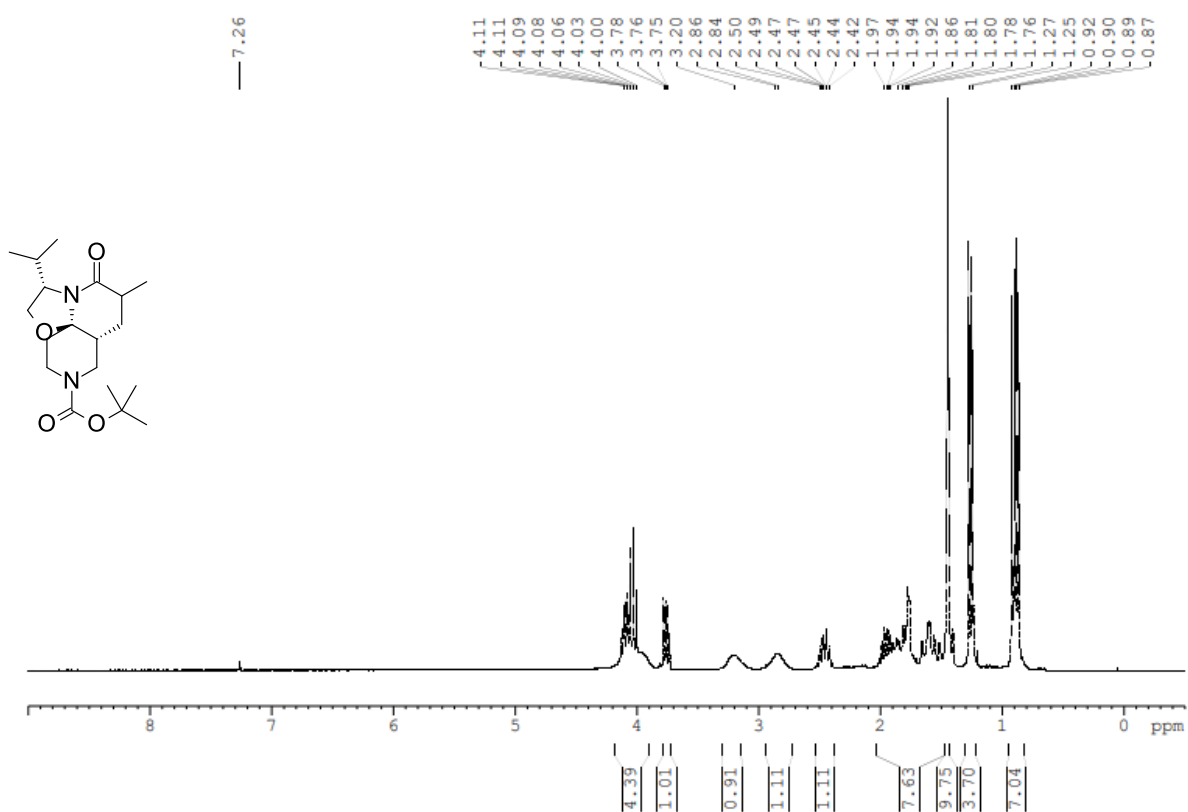
40, ^1H NMR (300 MHz, CDCl_3)



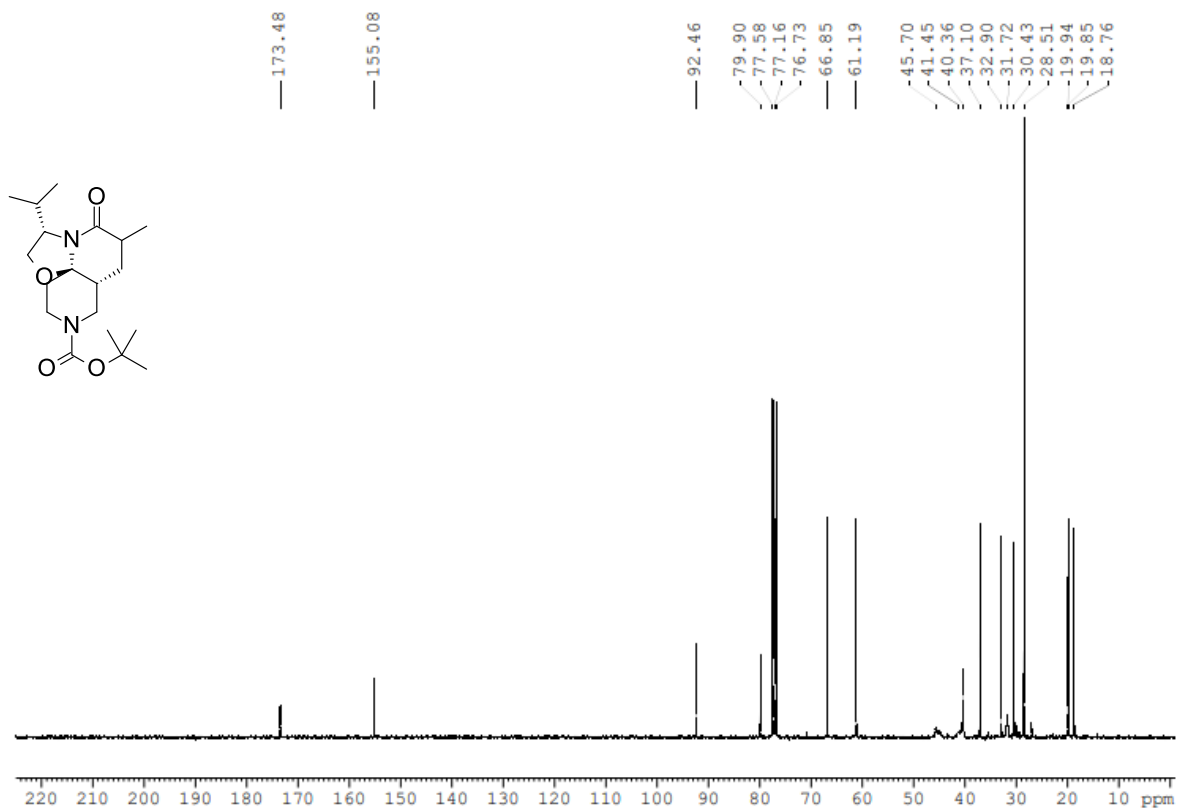
40, ^{13}C NMR (75 MHz, CDCl_3)



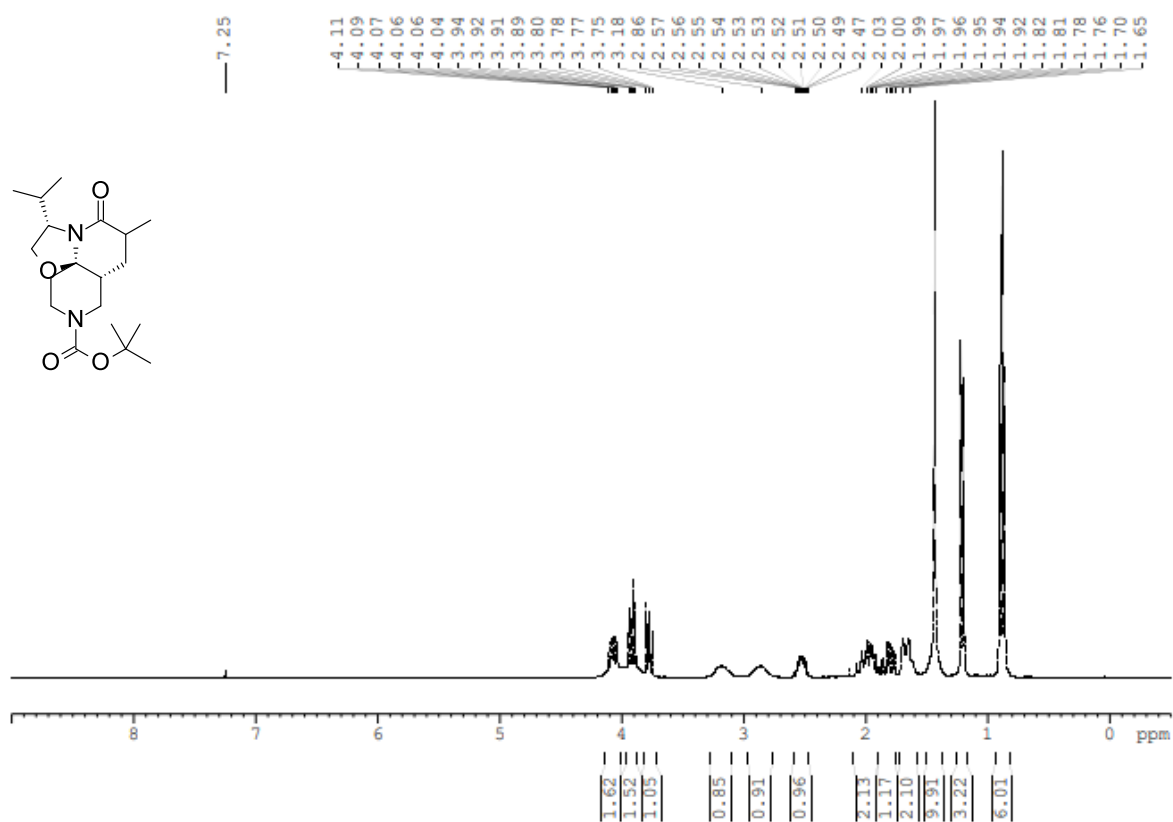
41 or 41' (diastereoisomer **1**), ^1H NMR (300 MHz, CDCl_3)



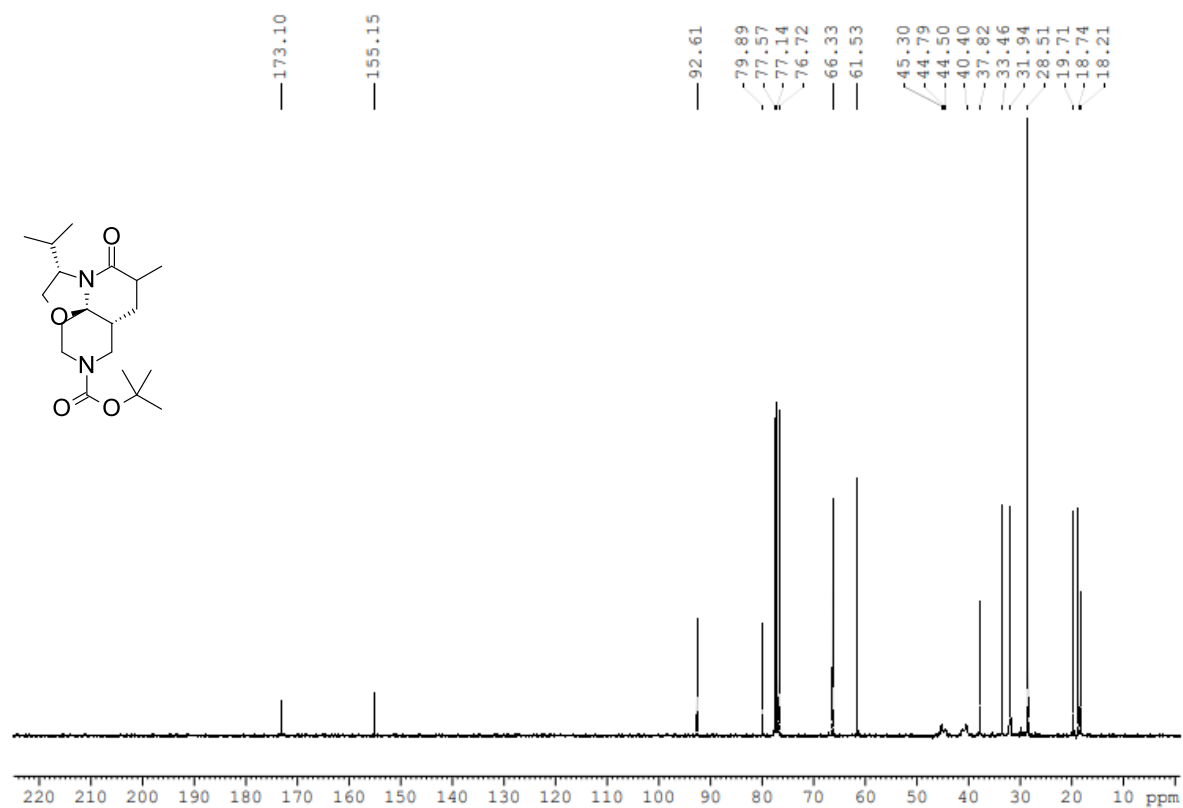
41 or 41' (diastereoisomer 1), ^{13}C NMR (75 MHz, CDCl_3)



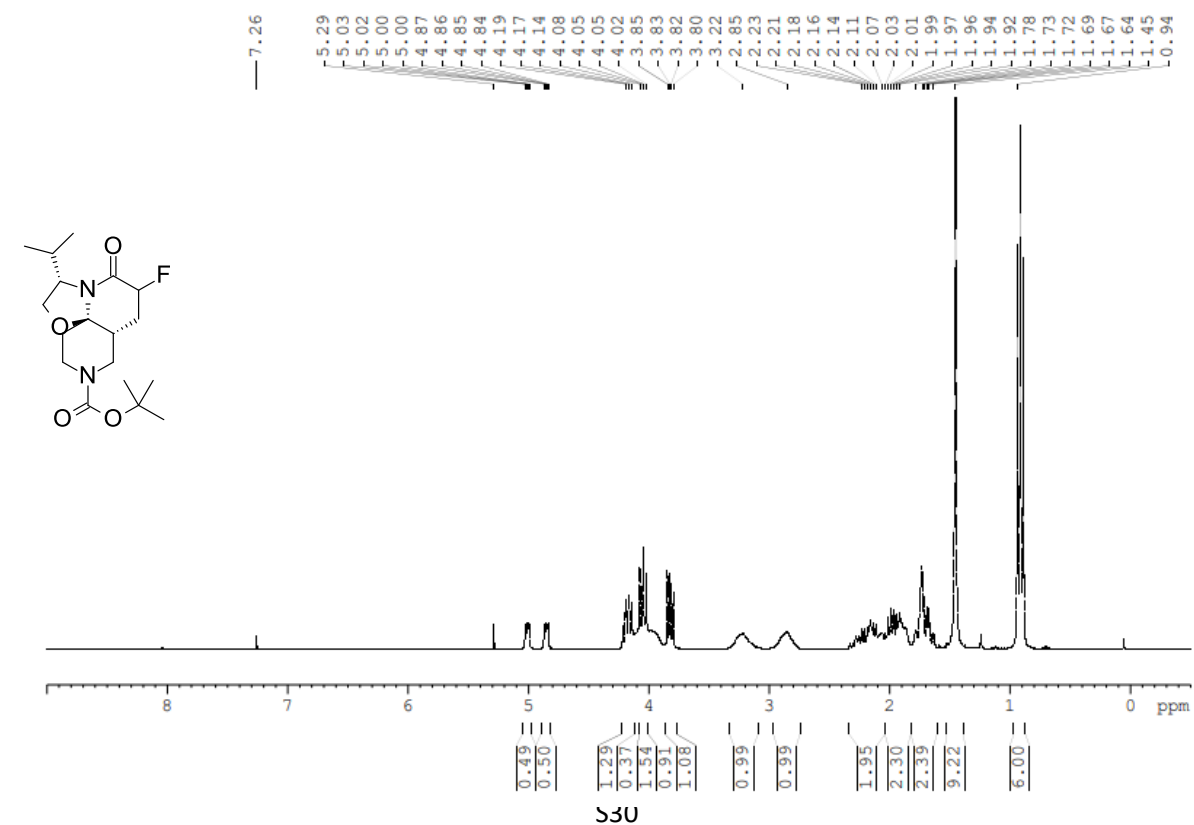
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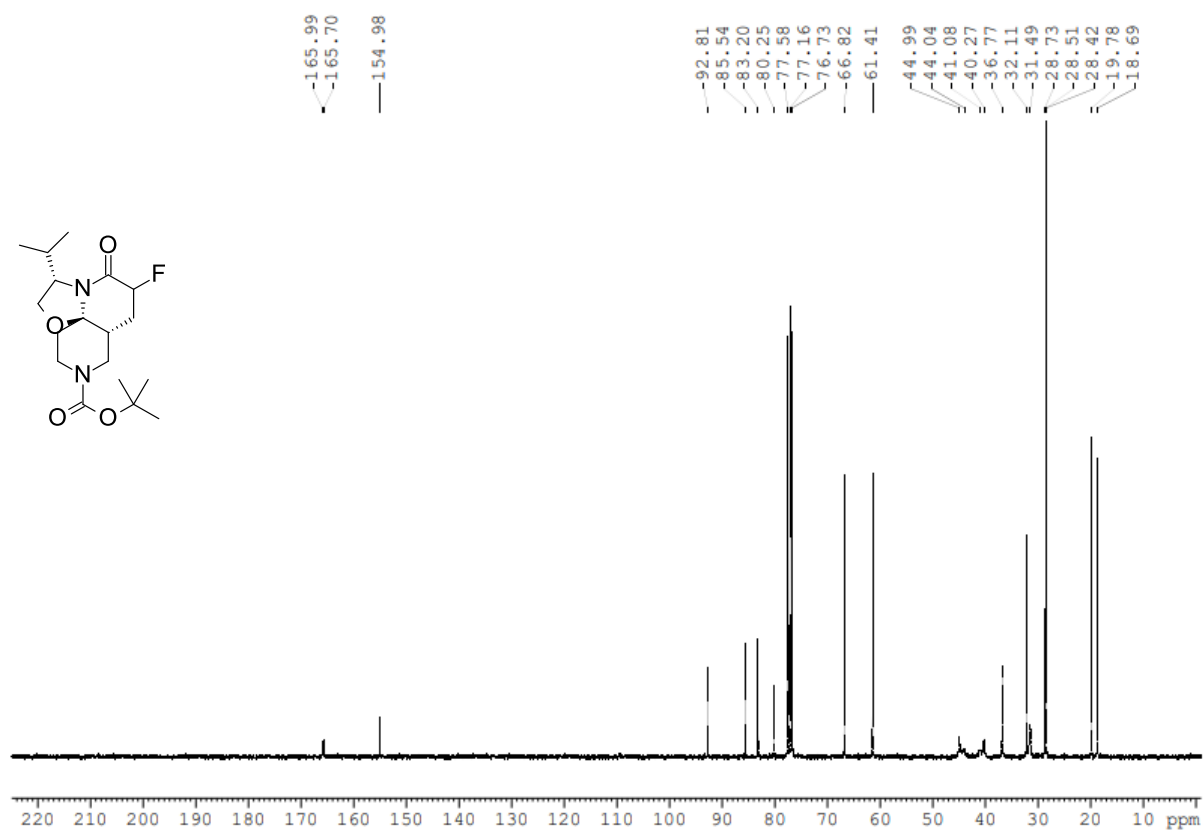
41 or 41' (diastereoisomer 2), ^{13}C NMR (75 MHz, CDCl_3)



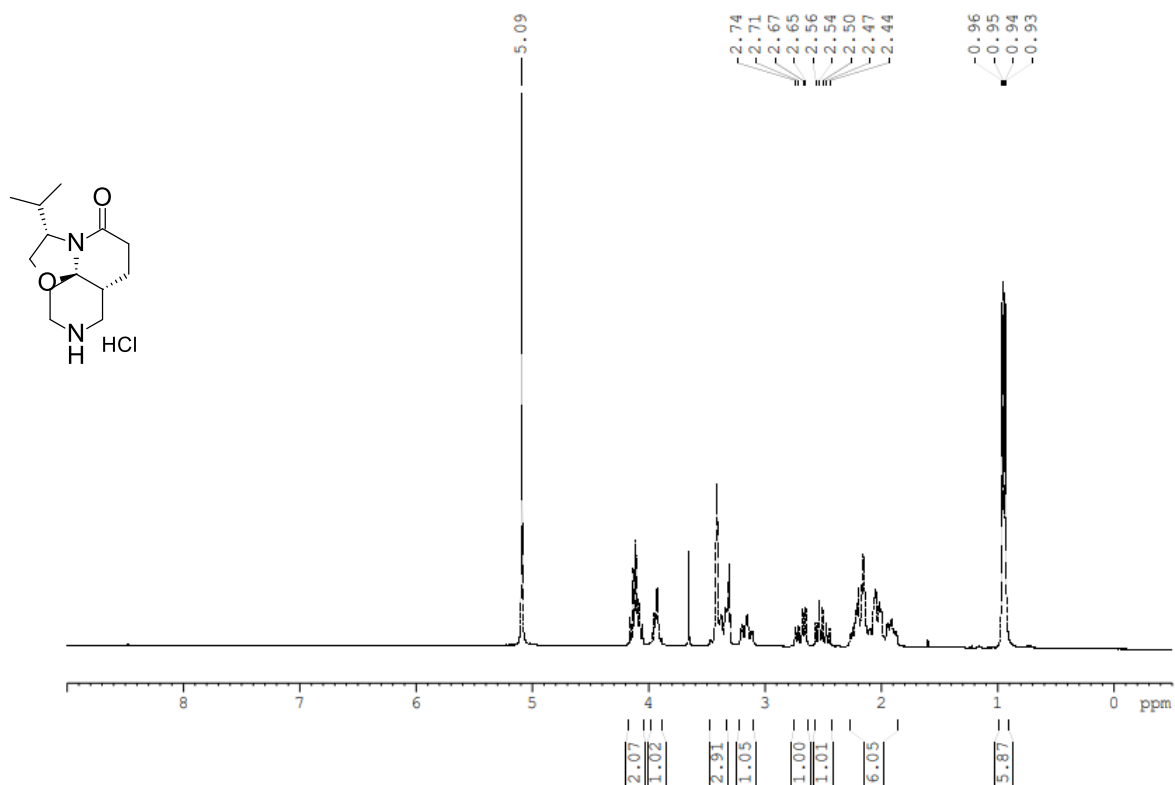
42, ^1H NMR (300 MHz, CDCl_3)



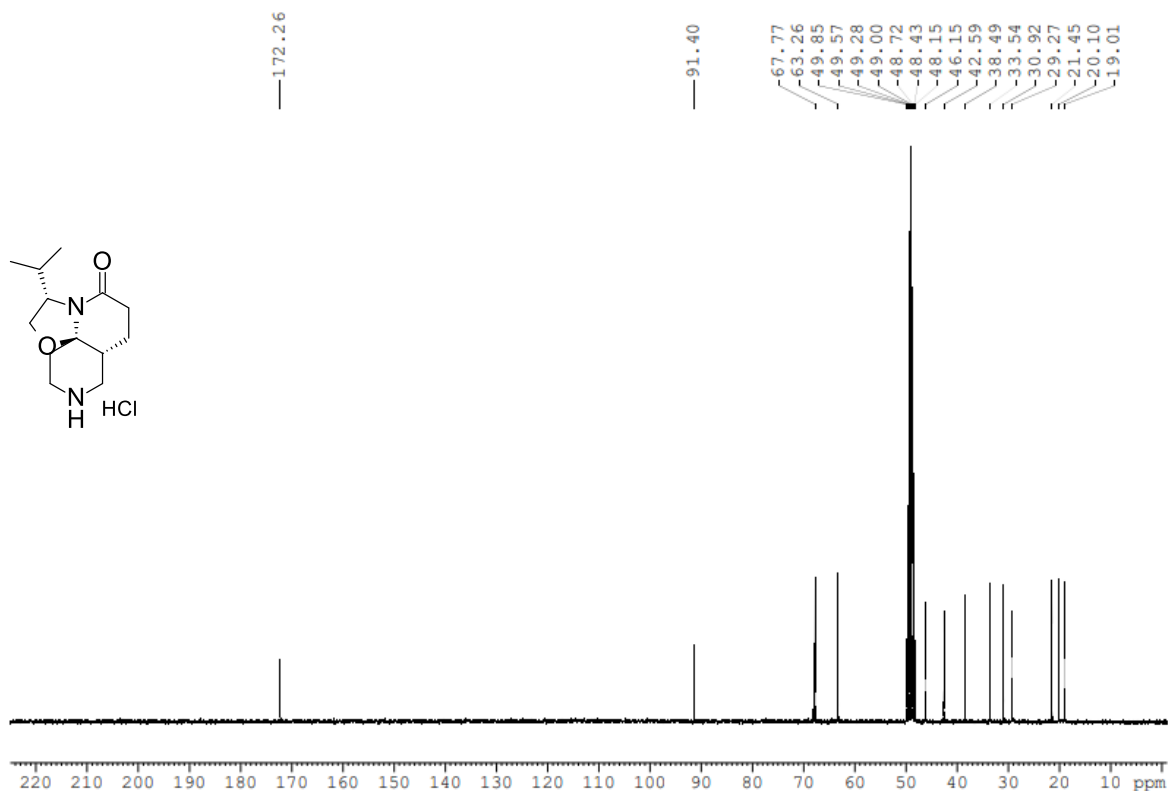
42, ^{13}C NMR (75 MHz, CDCl_3)



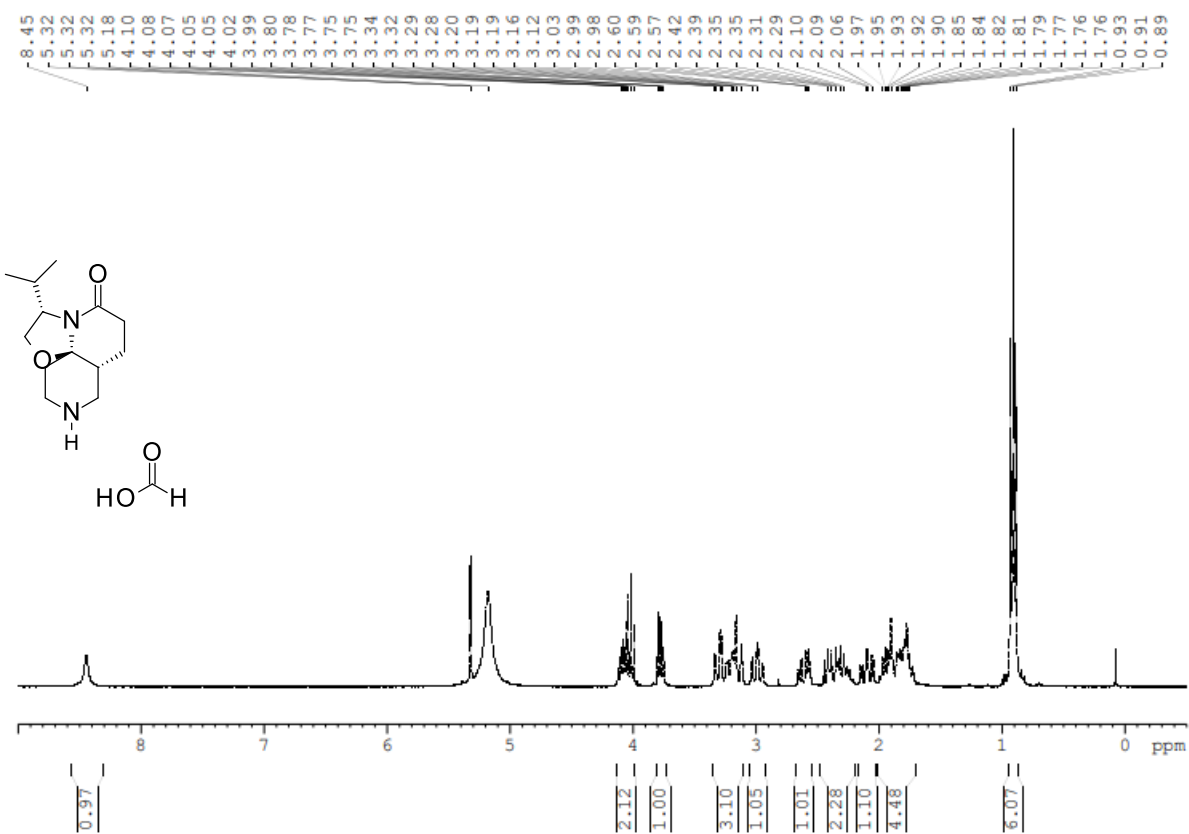
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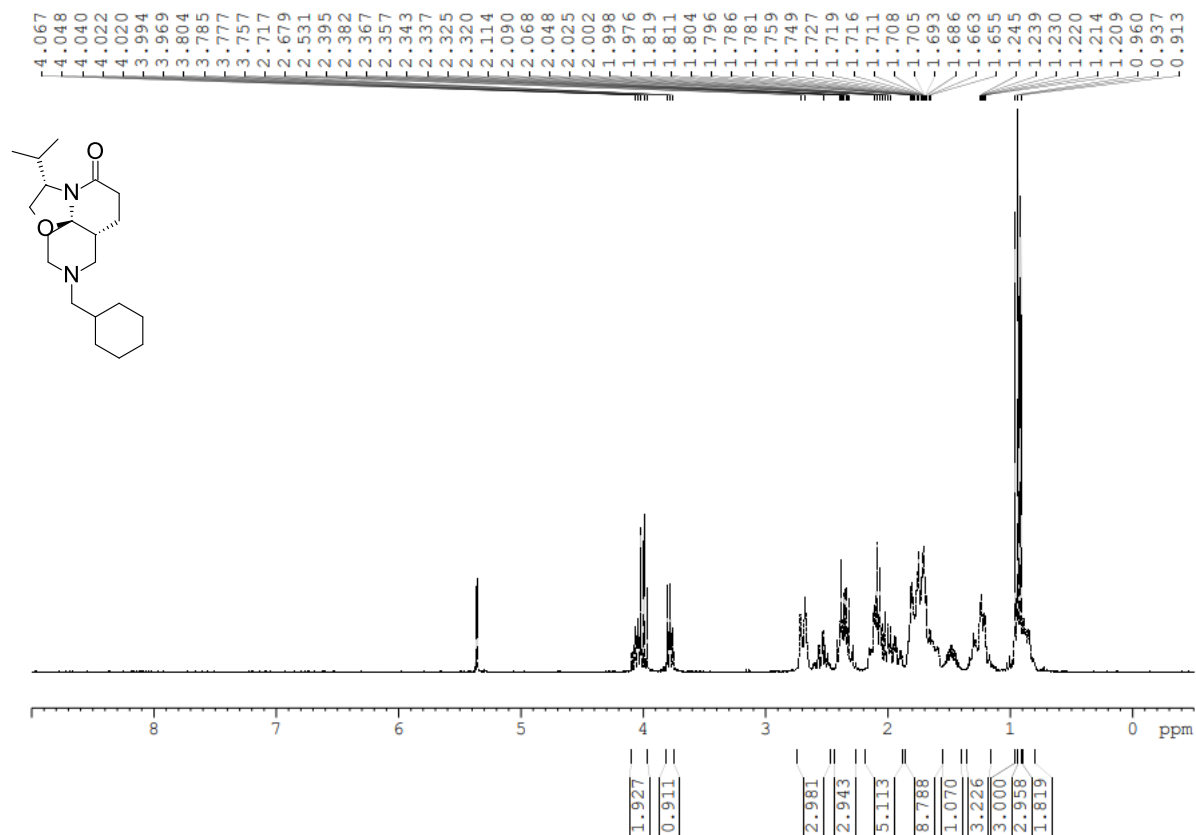
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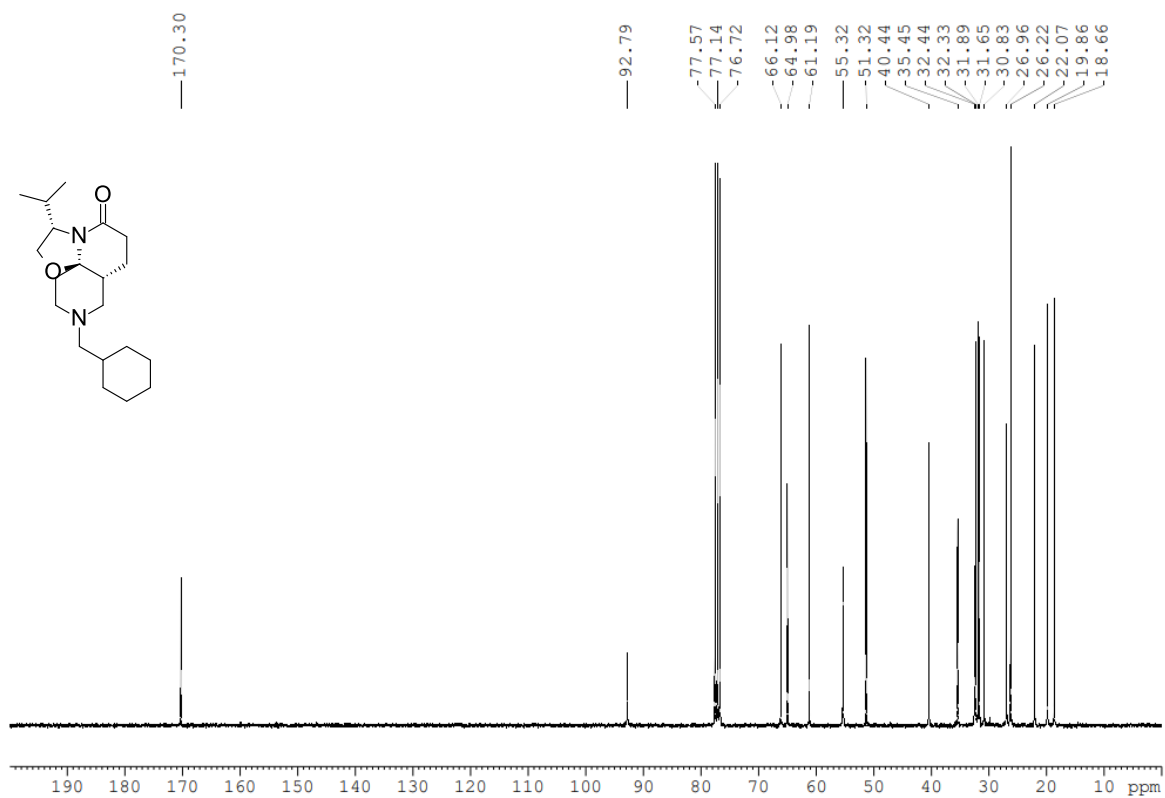
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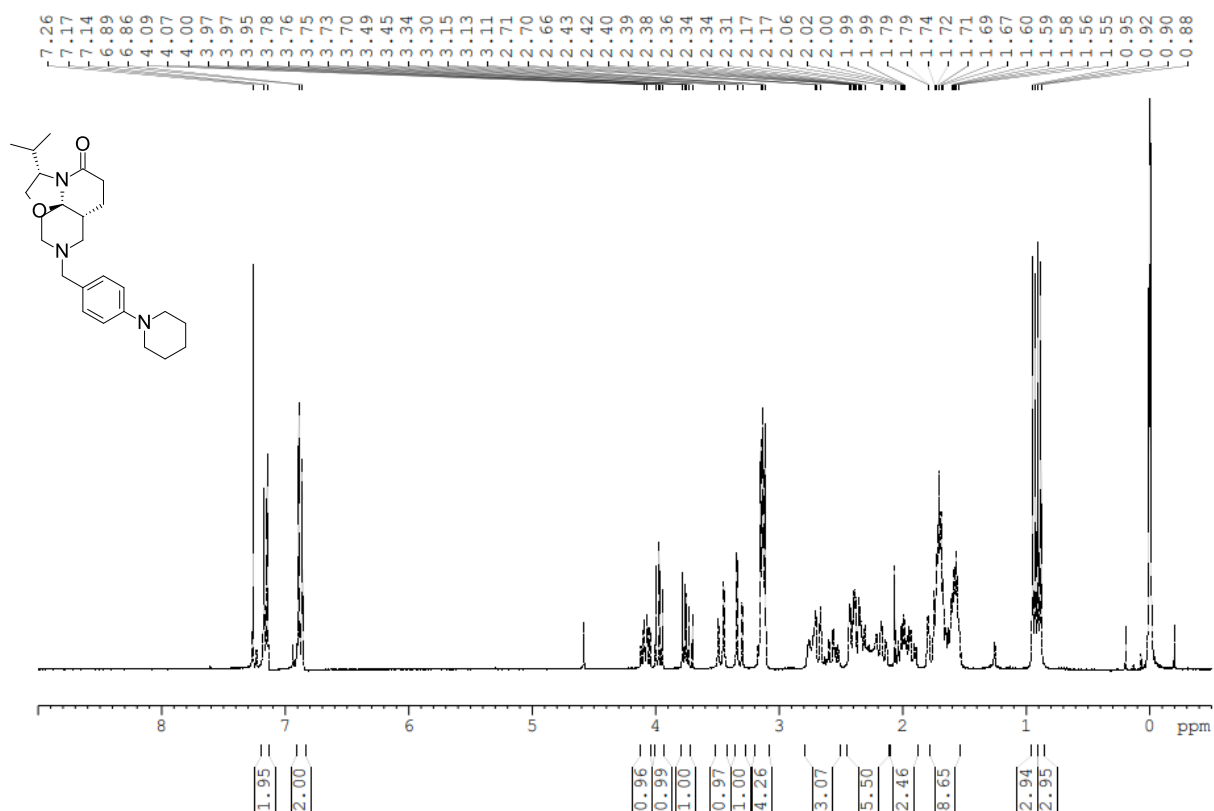
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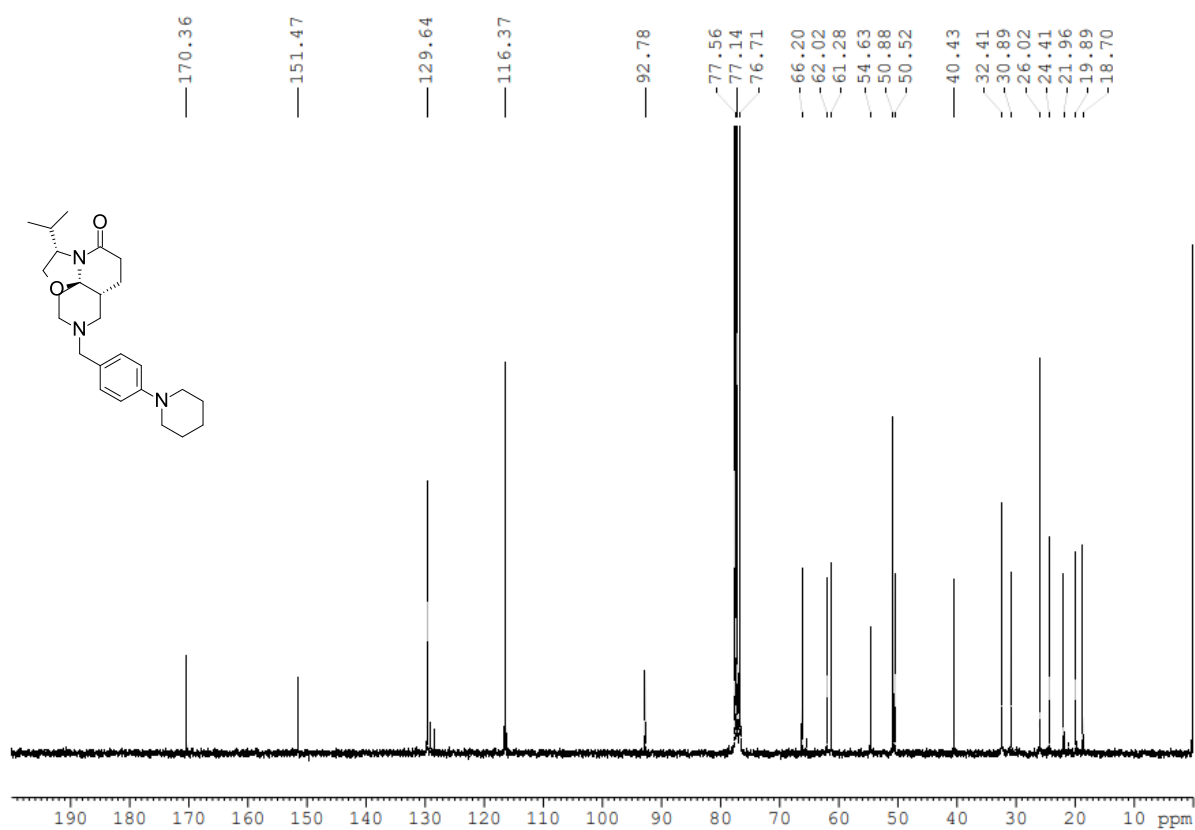
45, ^{13}C NMR (75 MHz, CD_2Cl_2)



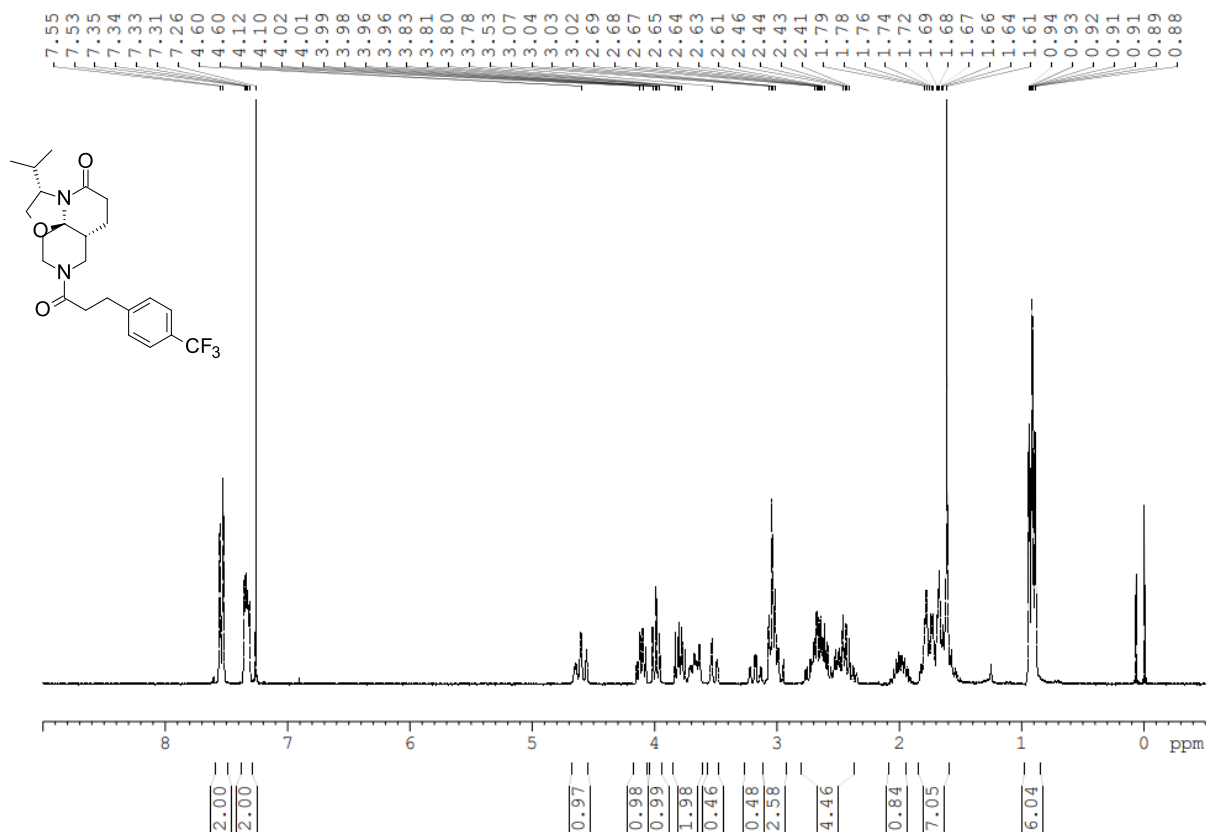
46, ^1H NMR (300 MHz, CDCl_3)



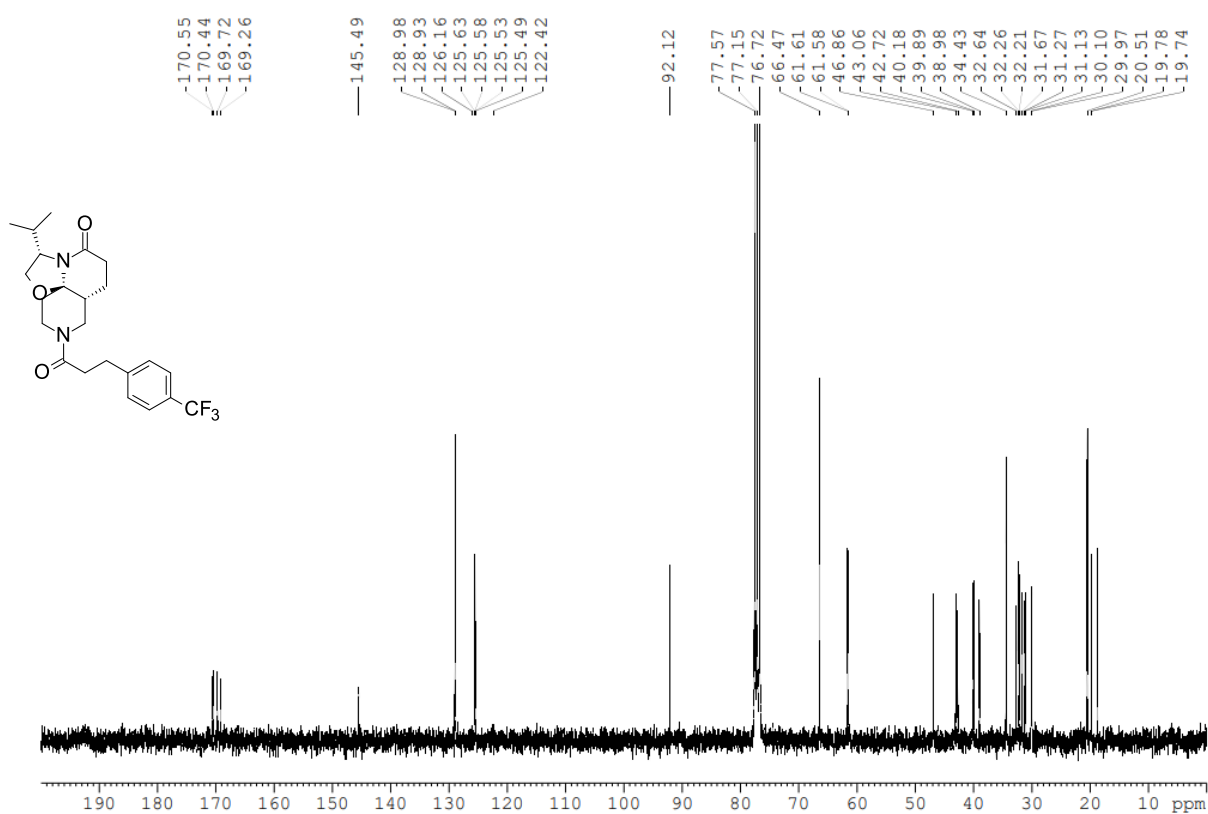
46, ^{13}C NMR (75 MHz, CDCl_3)



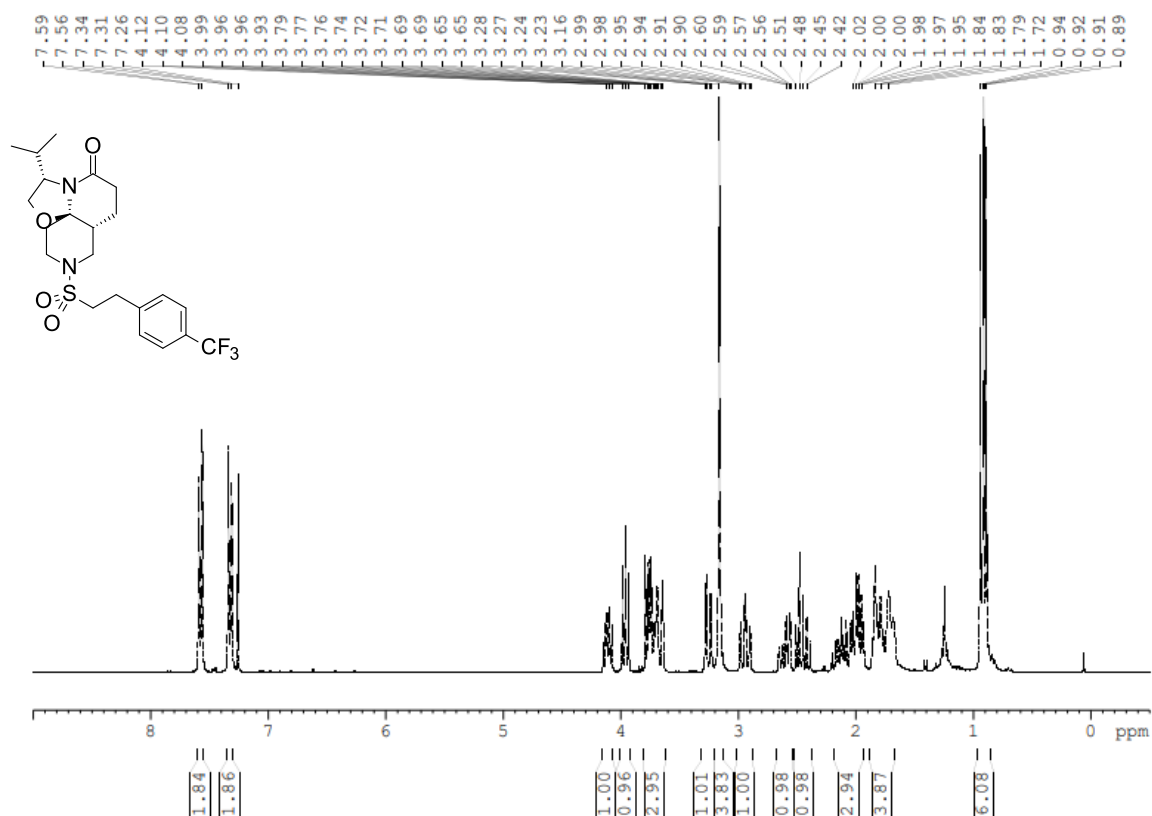
47, ^1H NMR (300 MHz, CDCl_3)



47, ^{13}C NMR (75 MHz, CDCl_3)



48, ^1H NMR (300 MHz, CDCl_3)



48, ^{13}C NMR (75 MHz, CDCl_3)

