

# **General and stereoselective aminoxylation of biradical titanium(IV) enolates with TEMPO: a detailed study on the effect of the chiral auxiliary**

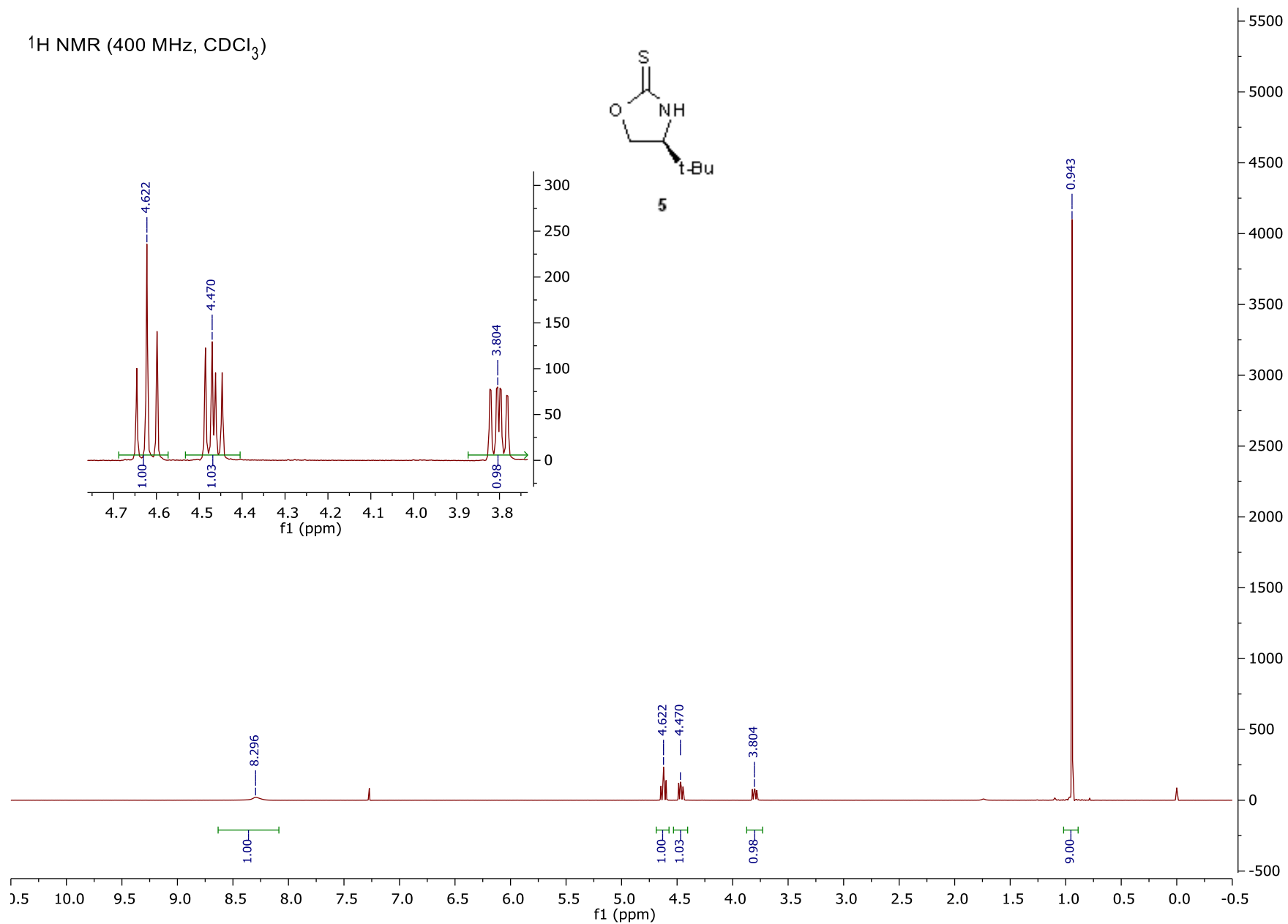
Stuart C. D. Kennington,<sup>a</sup> Alejandro Gómez-Palomino,<sup>a</sup> Ernest Salomó,<sup>a</sup> Pedro Romea,<sup>a</sup> Fèlix Urpí<sup>a</sup> and Mercè Font-Bardia<sup>b</sup>

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and Institut de Biomedicina (IBUB)  
Universitat de Barcelona, 08028 Barcelona, Catalonia, Spain*

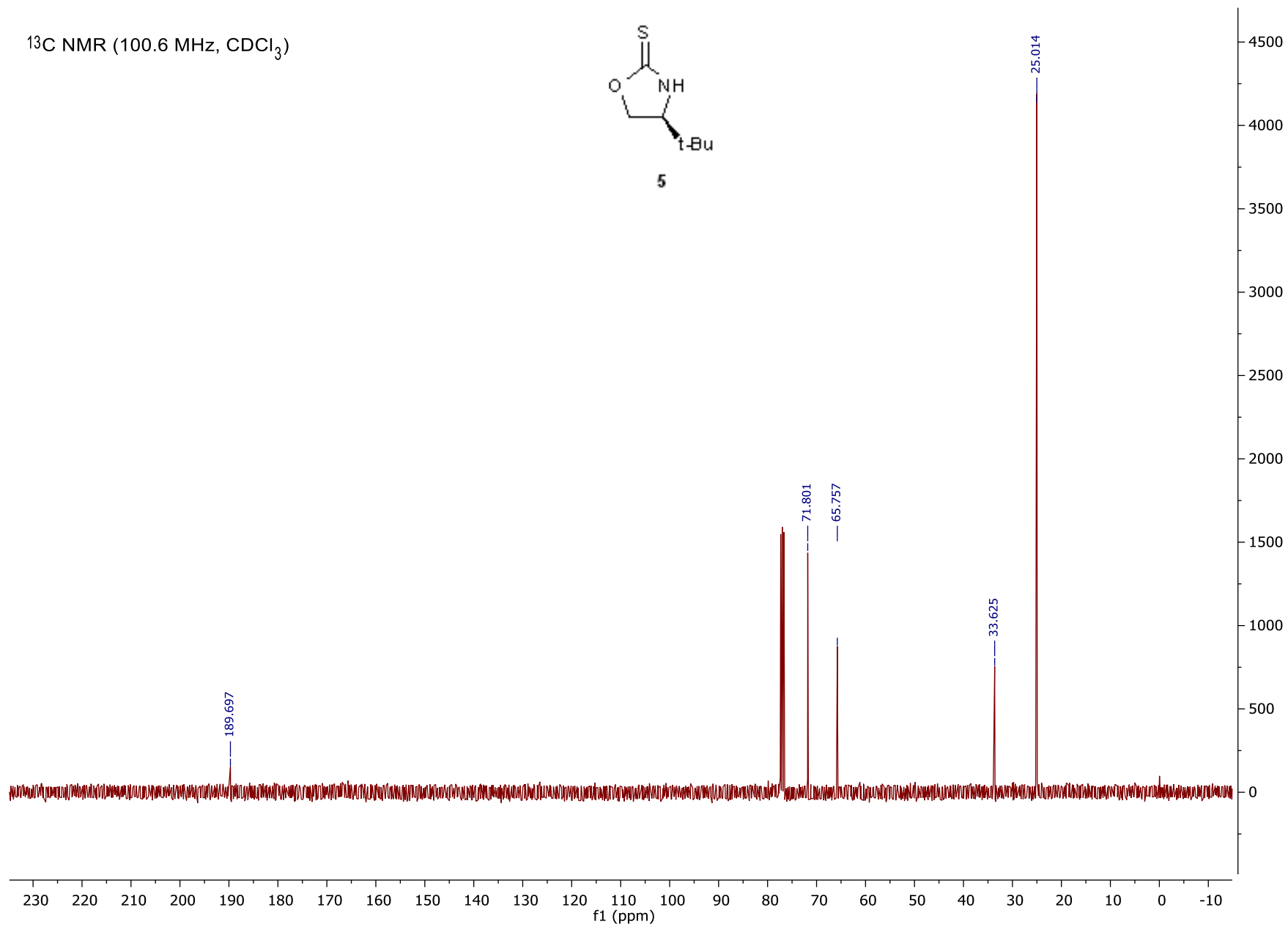
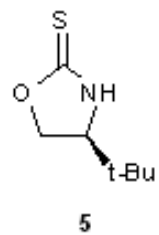
*<sup>b</sup> Unitat de Difracció de RX. CCiTUB*

1. <sup>1</sup>H and <sup>13</sup>C NMR spectra of new compounds

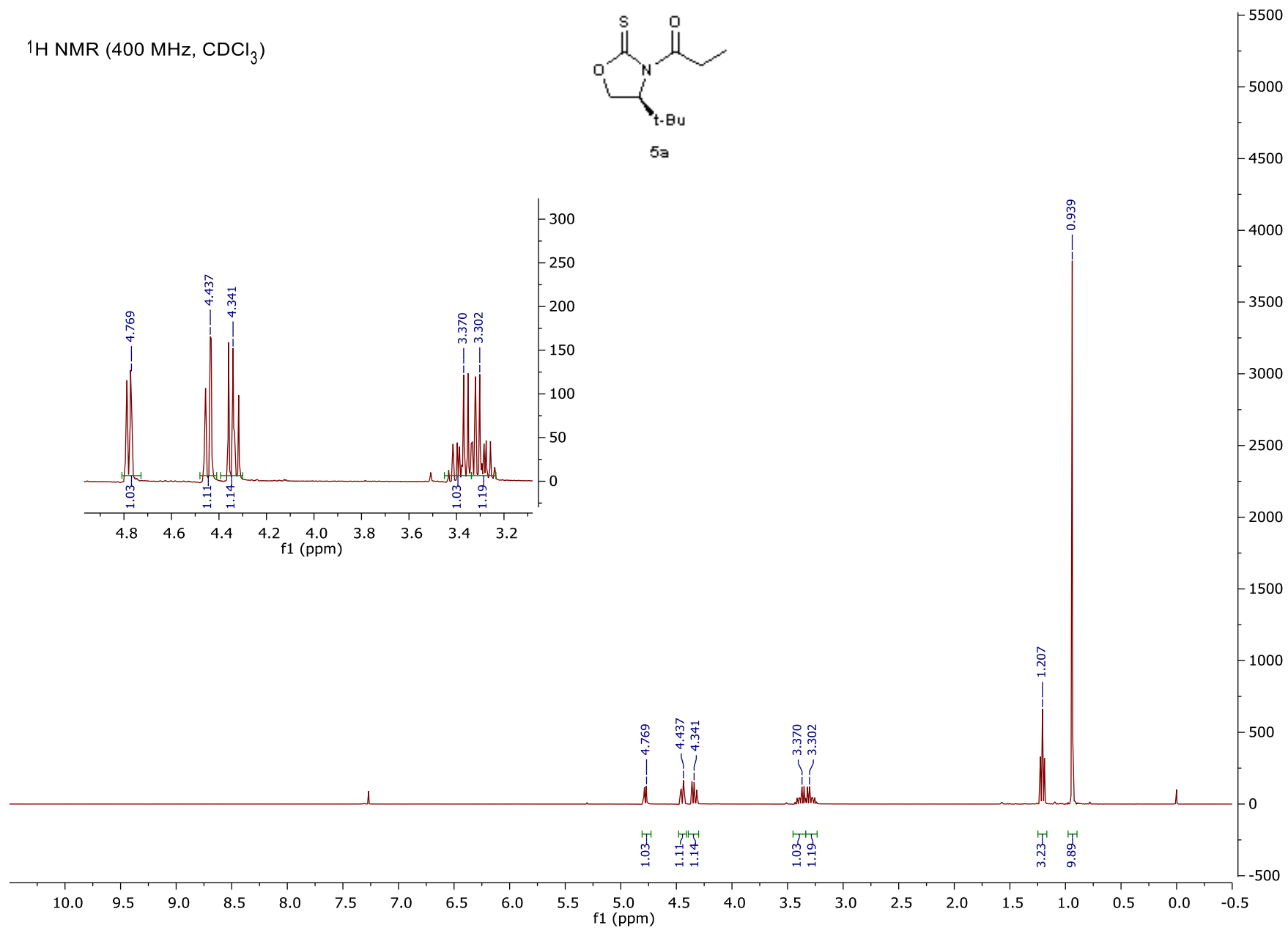
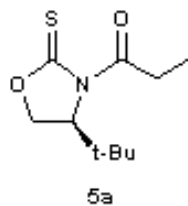
S2



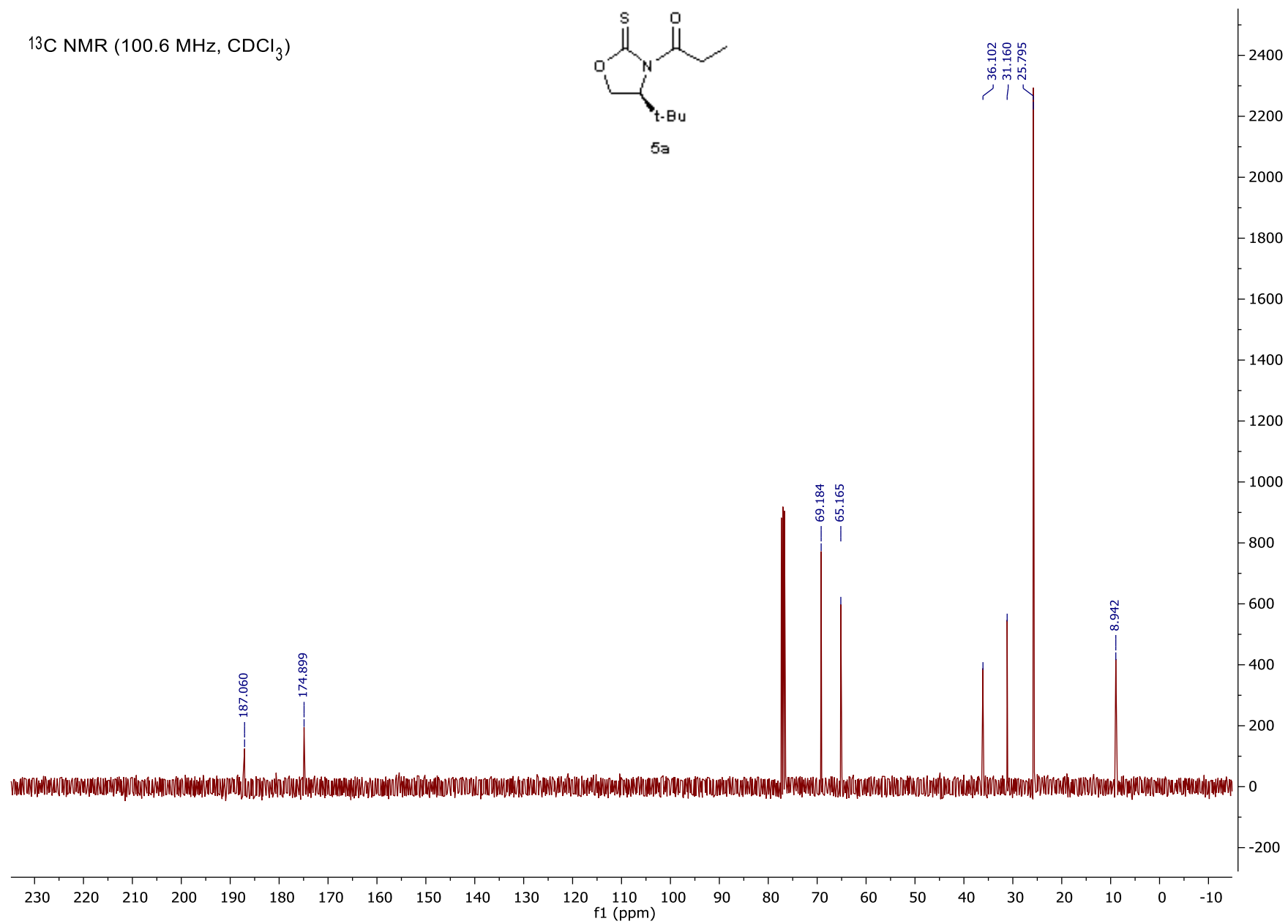
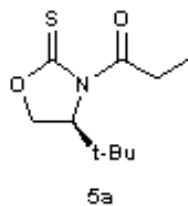
$^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ )

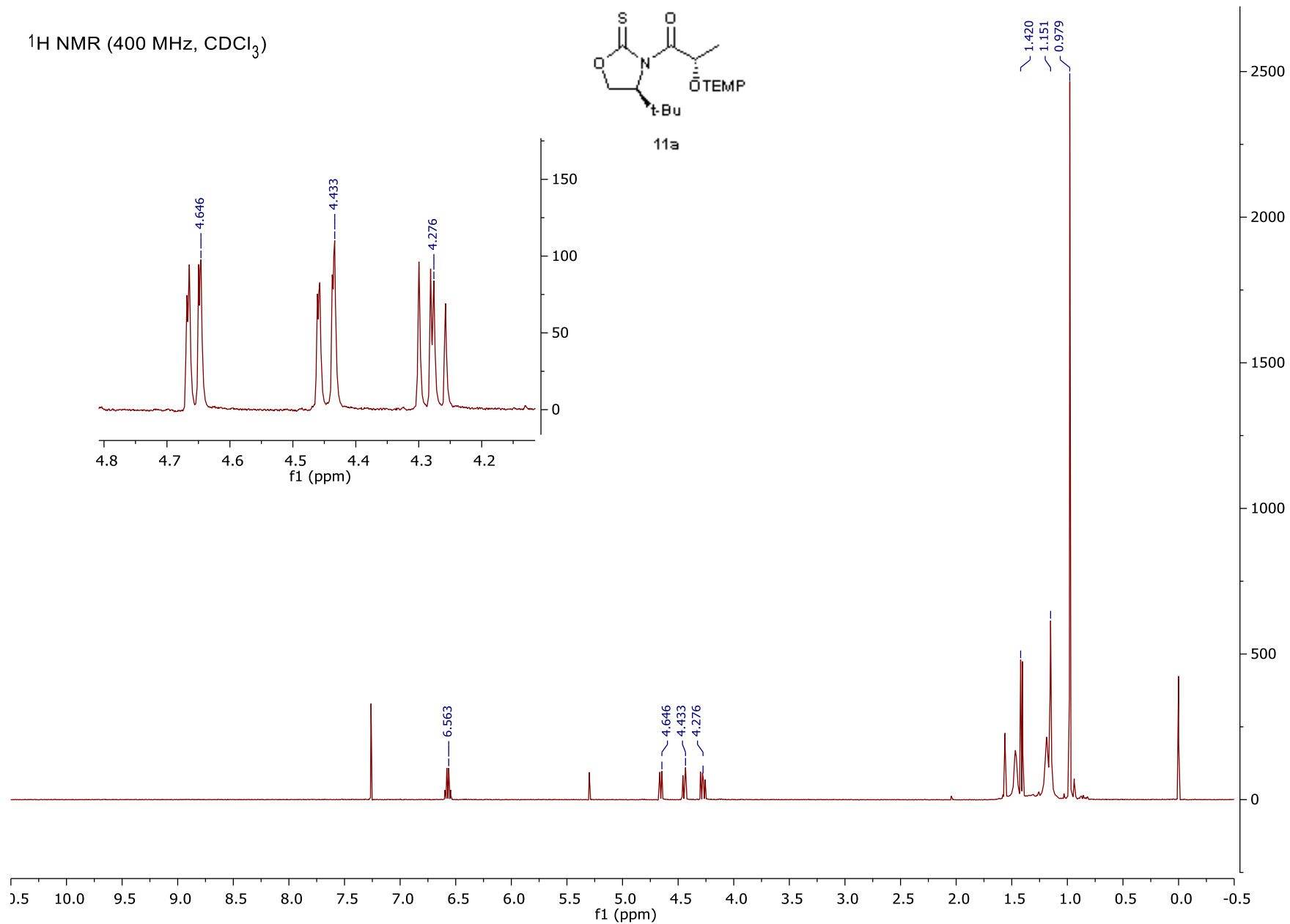


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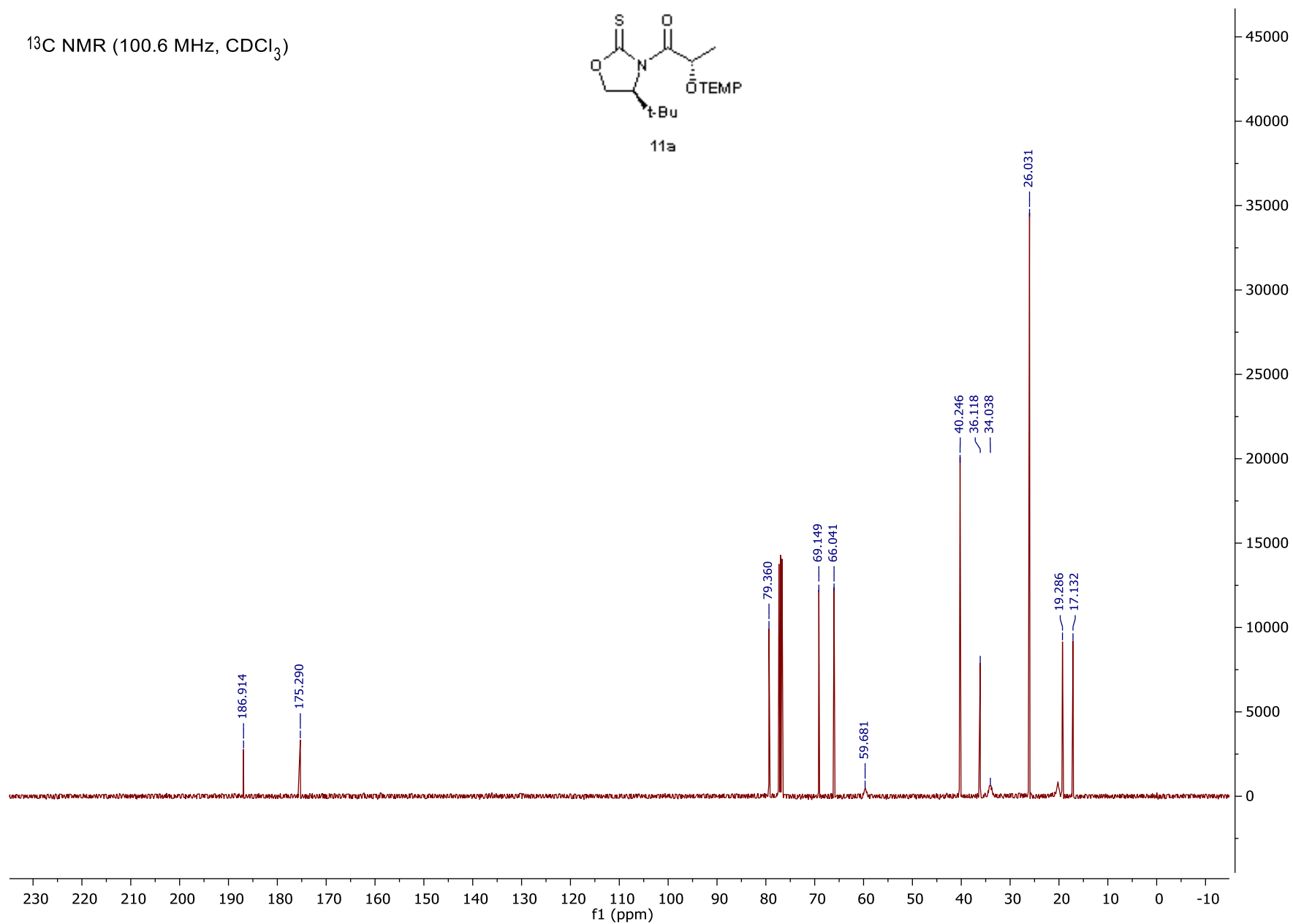
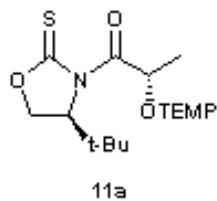


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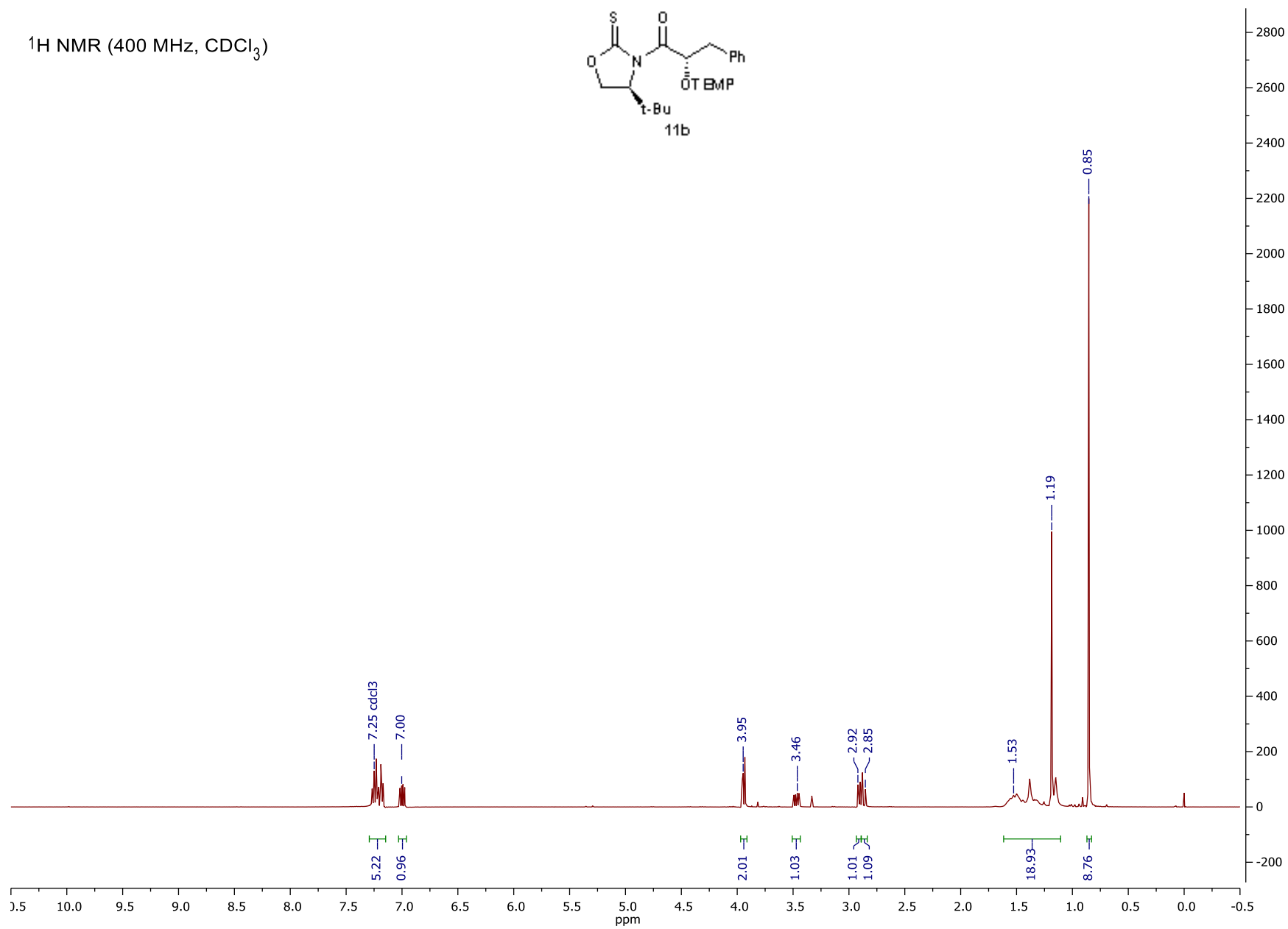
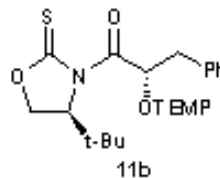




$^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ )

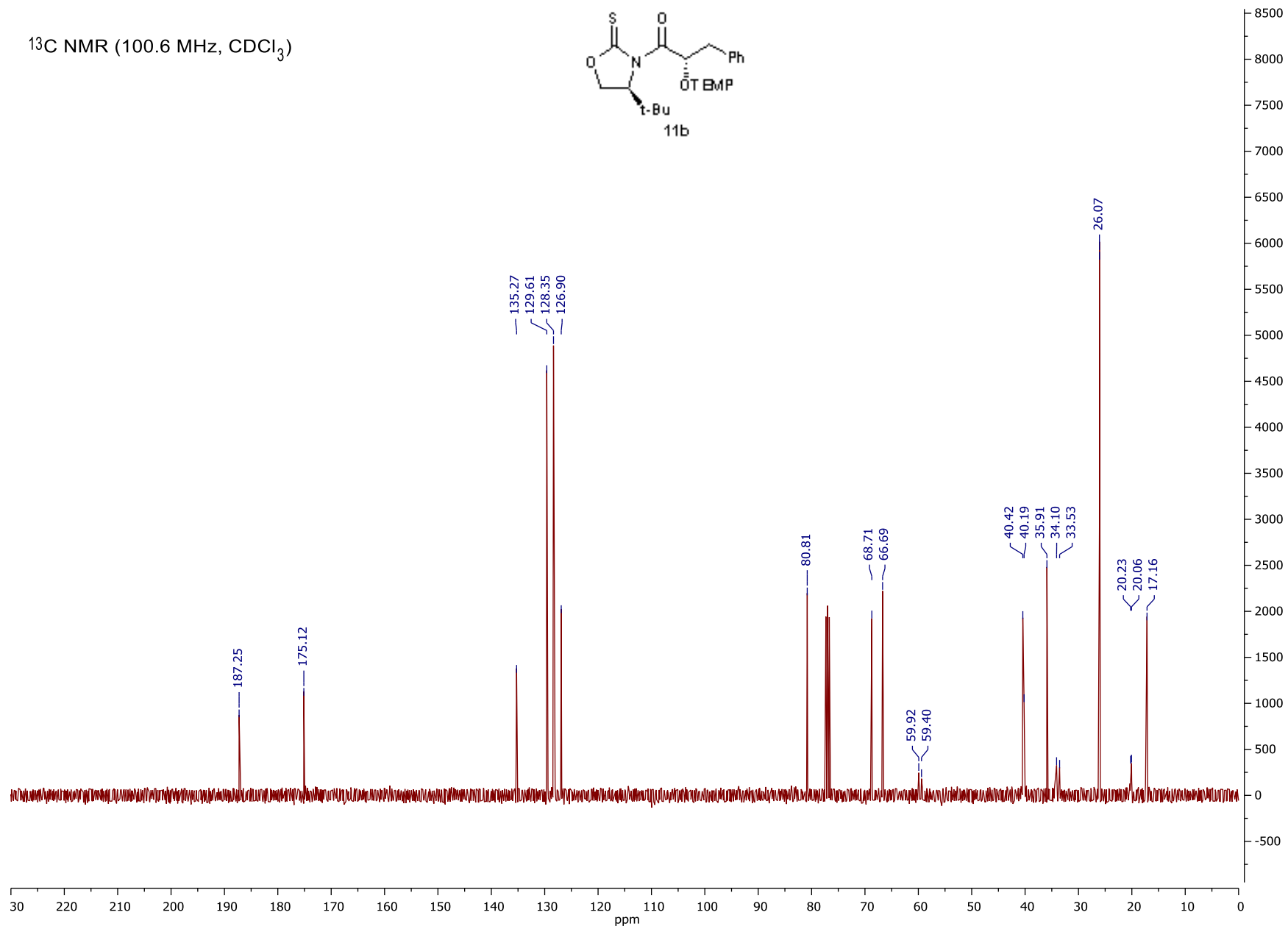
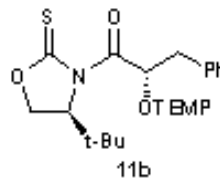


$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ )

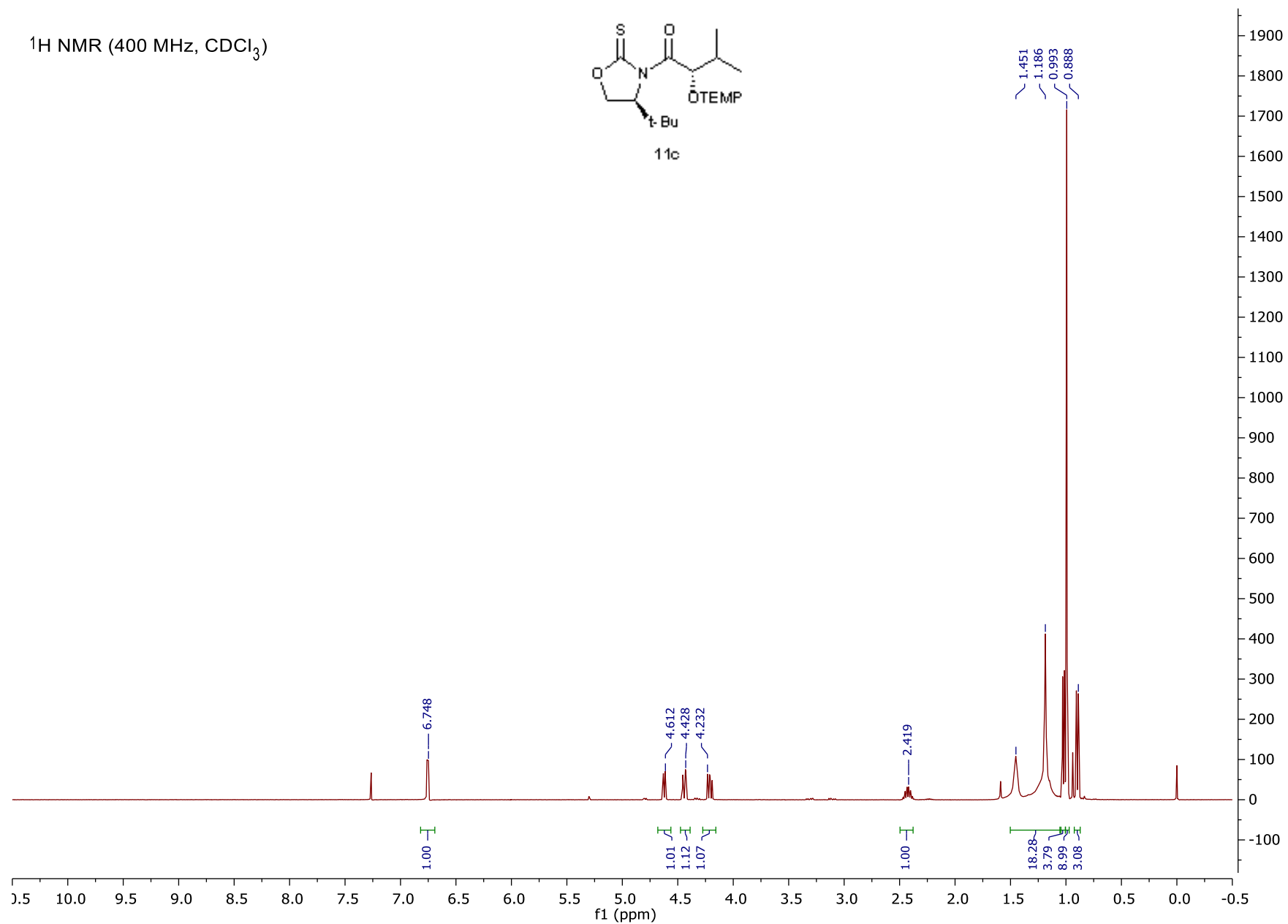
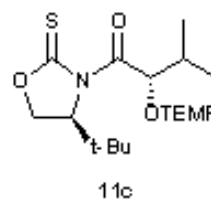




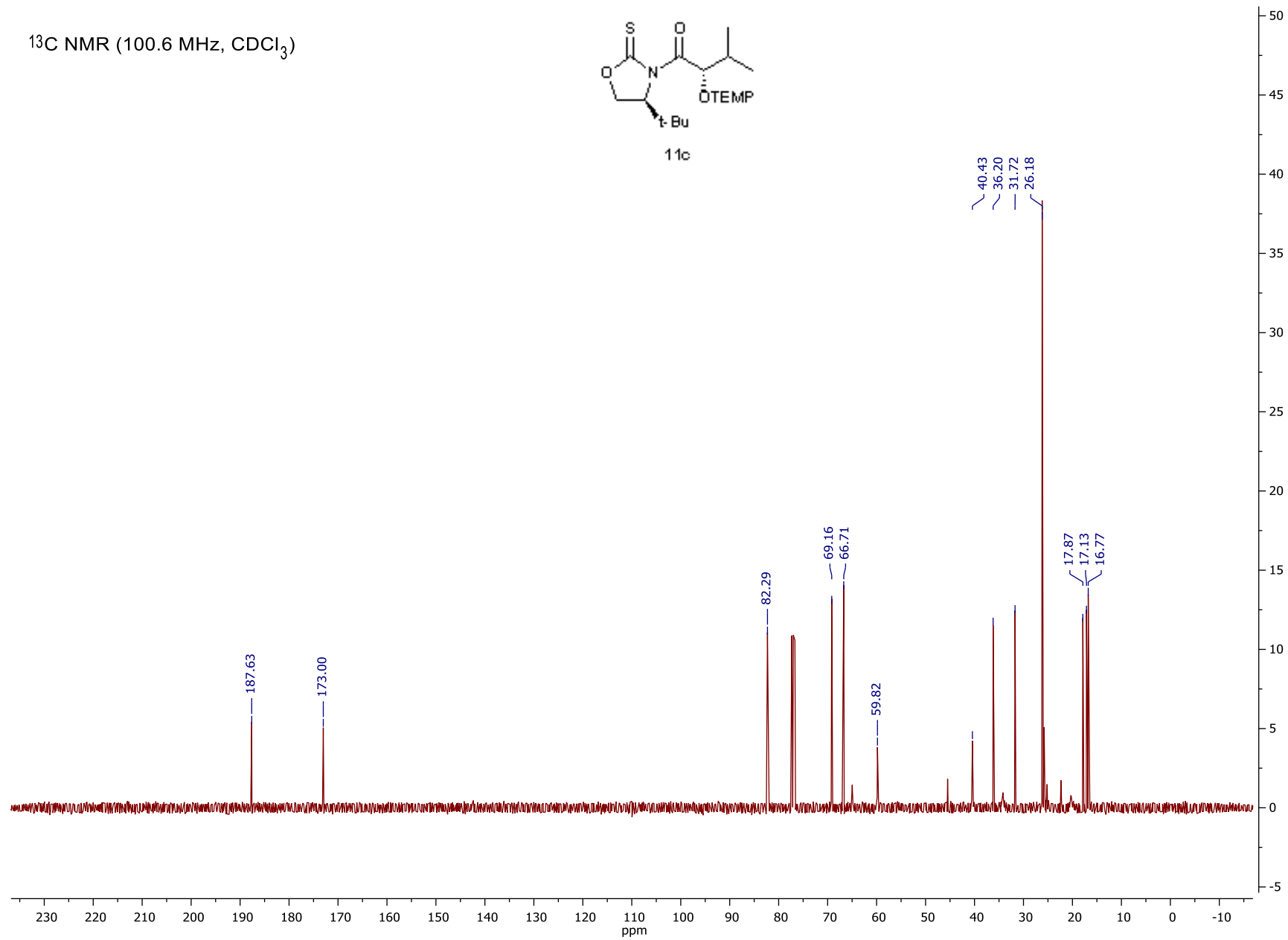
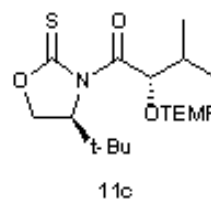
$^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ )



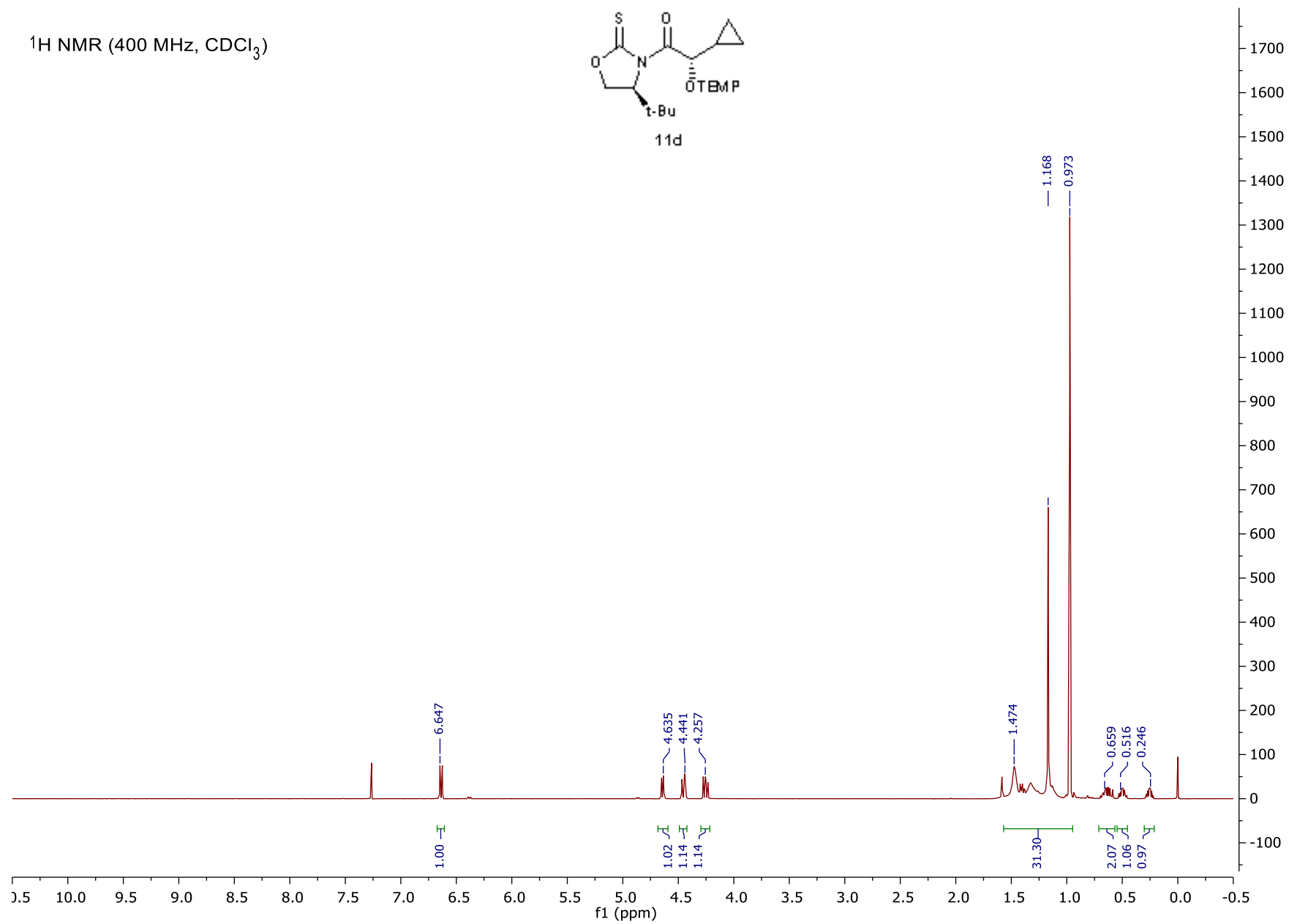
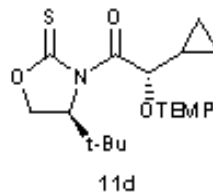
$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ )



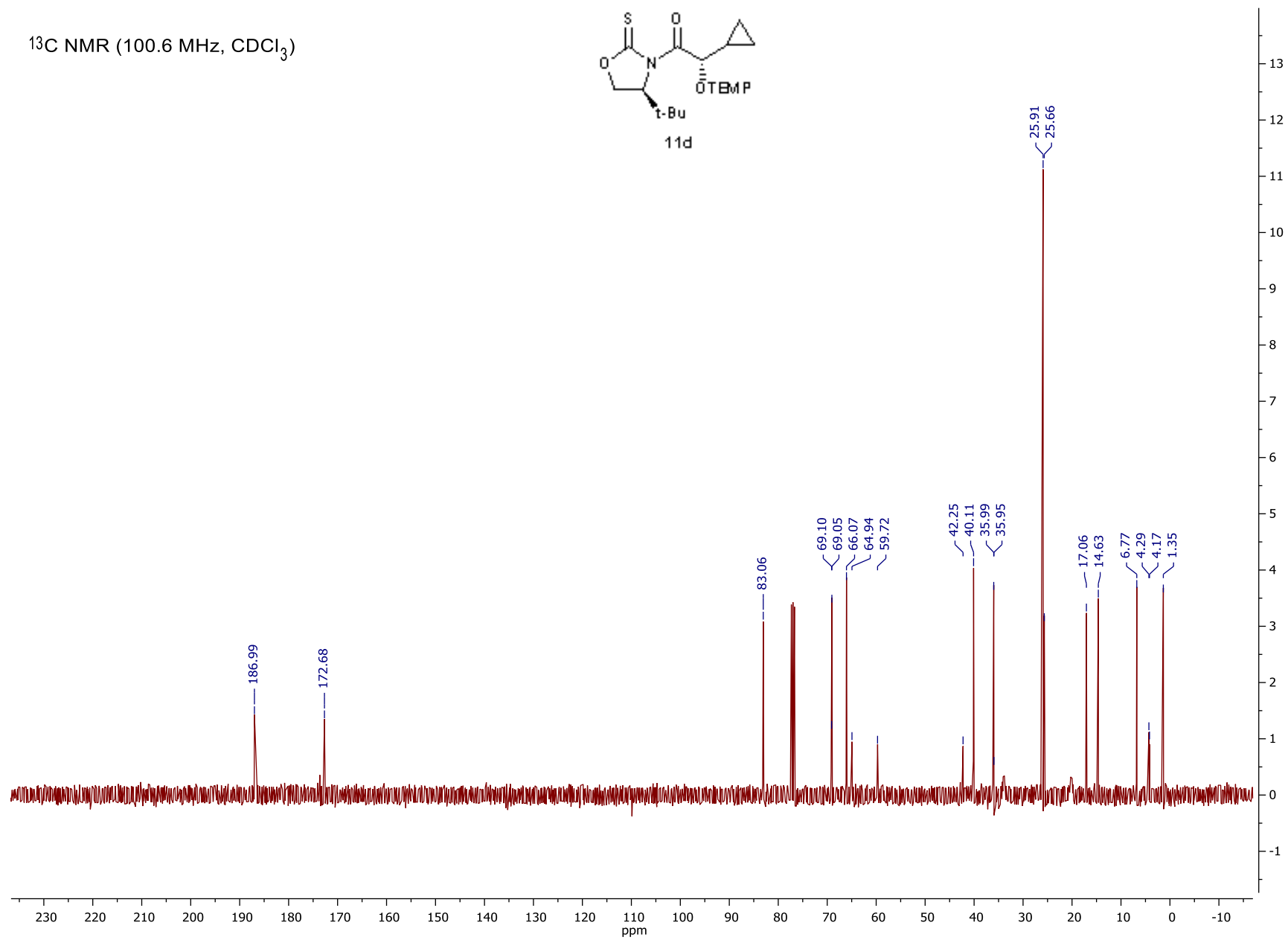
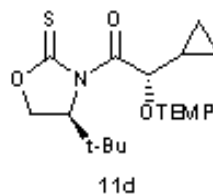
$^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ )



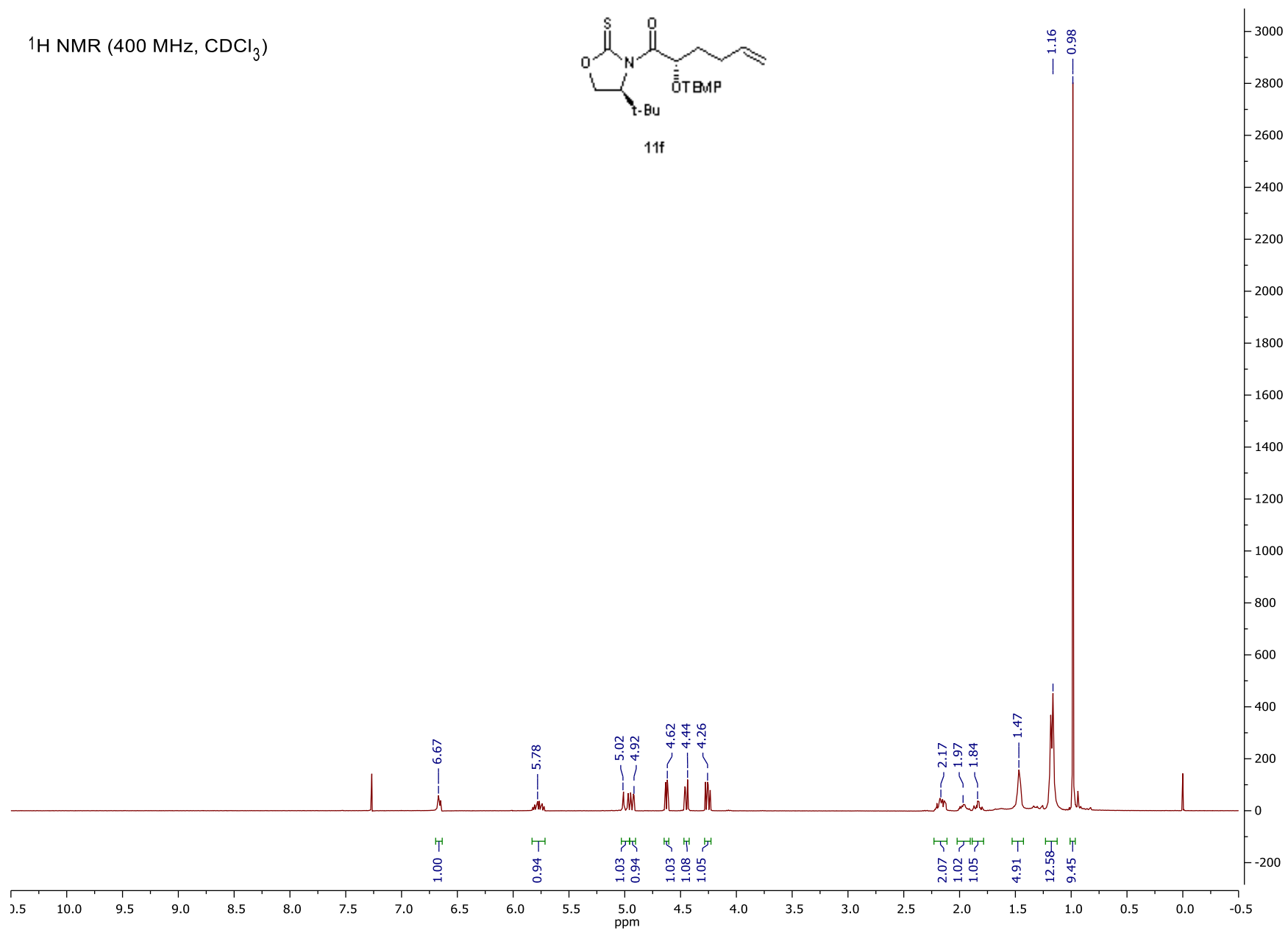
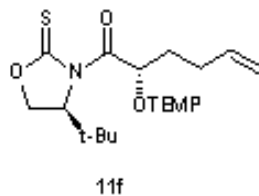
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>)



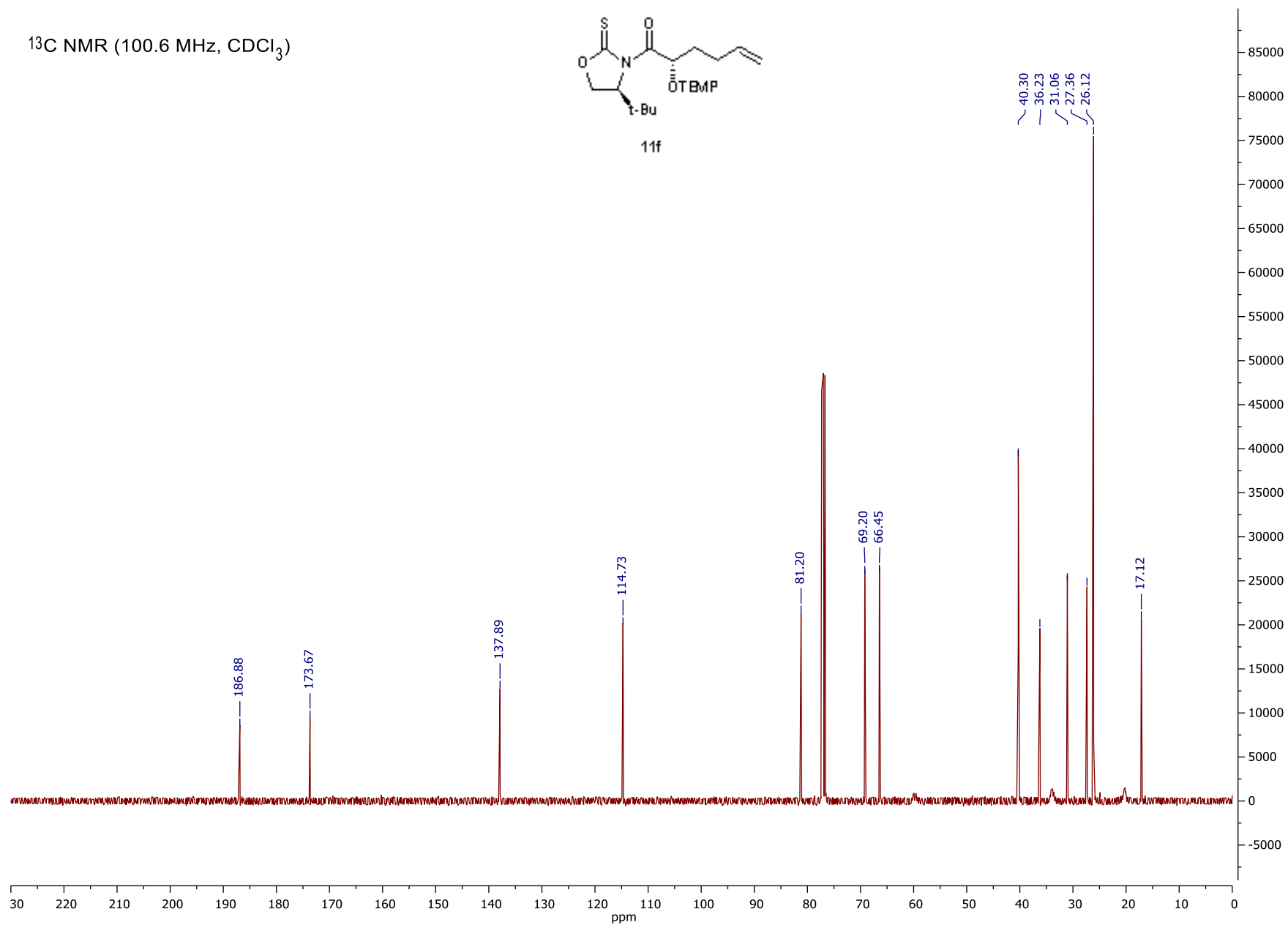
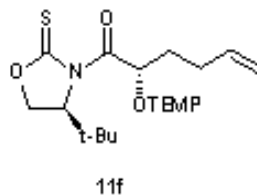
$^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ )



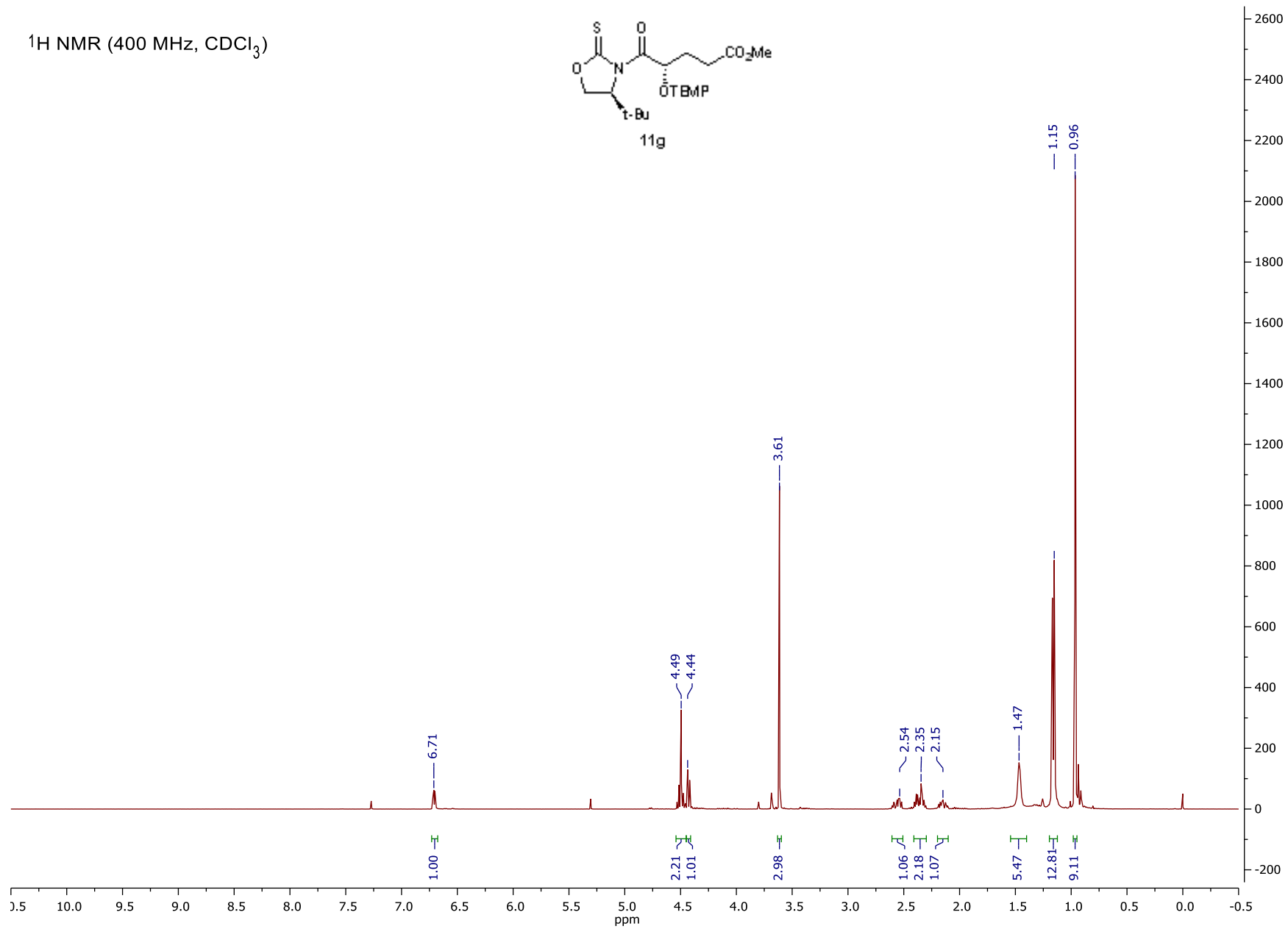
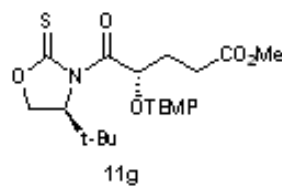
$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ )



$^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ )

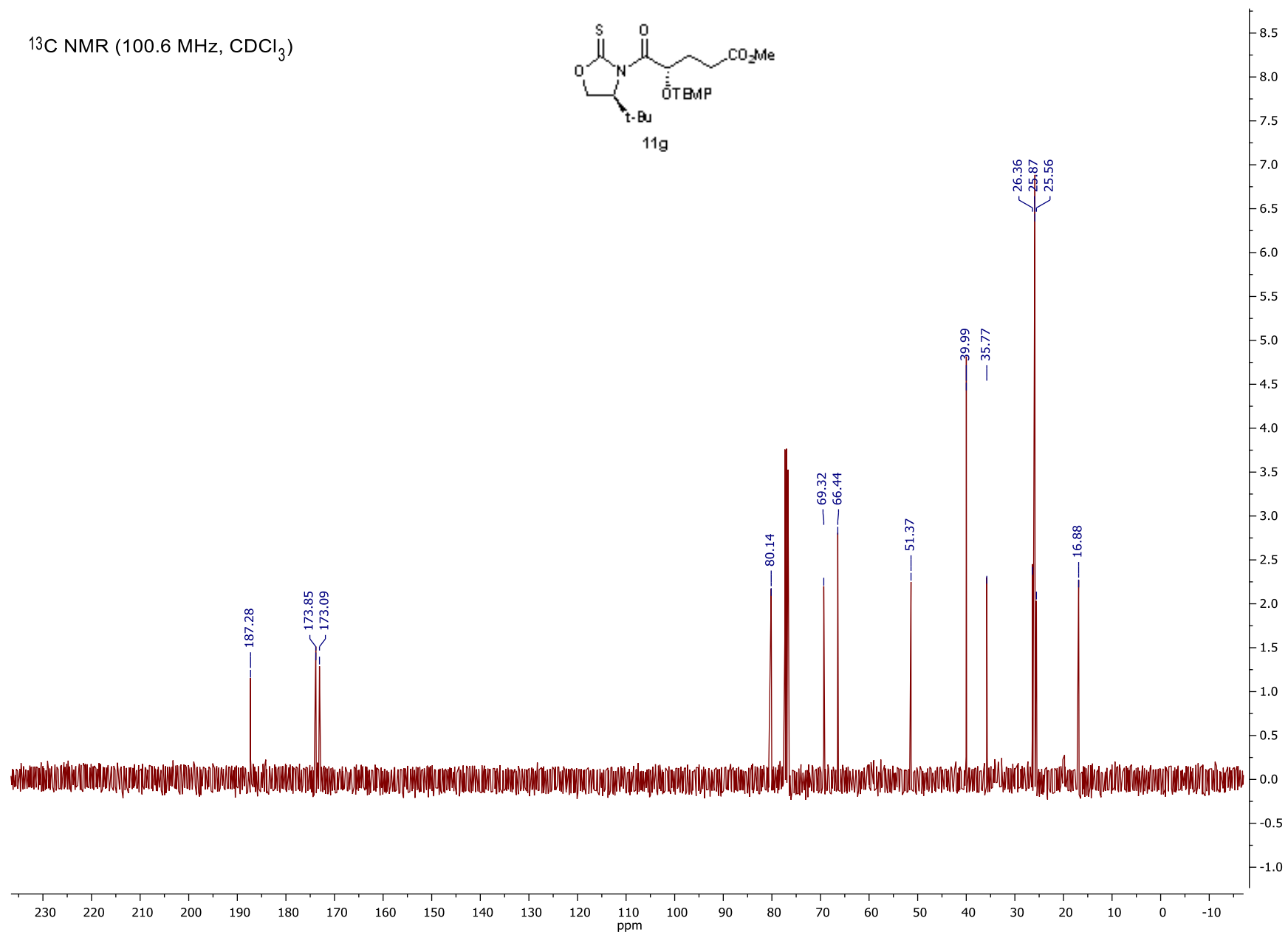
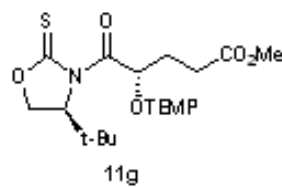


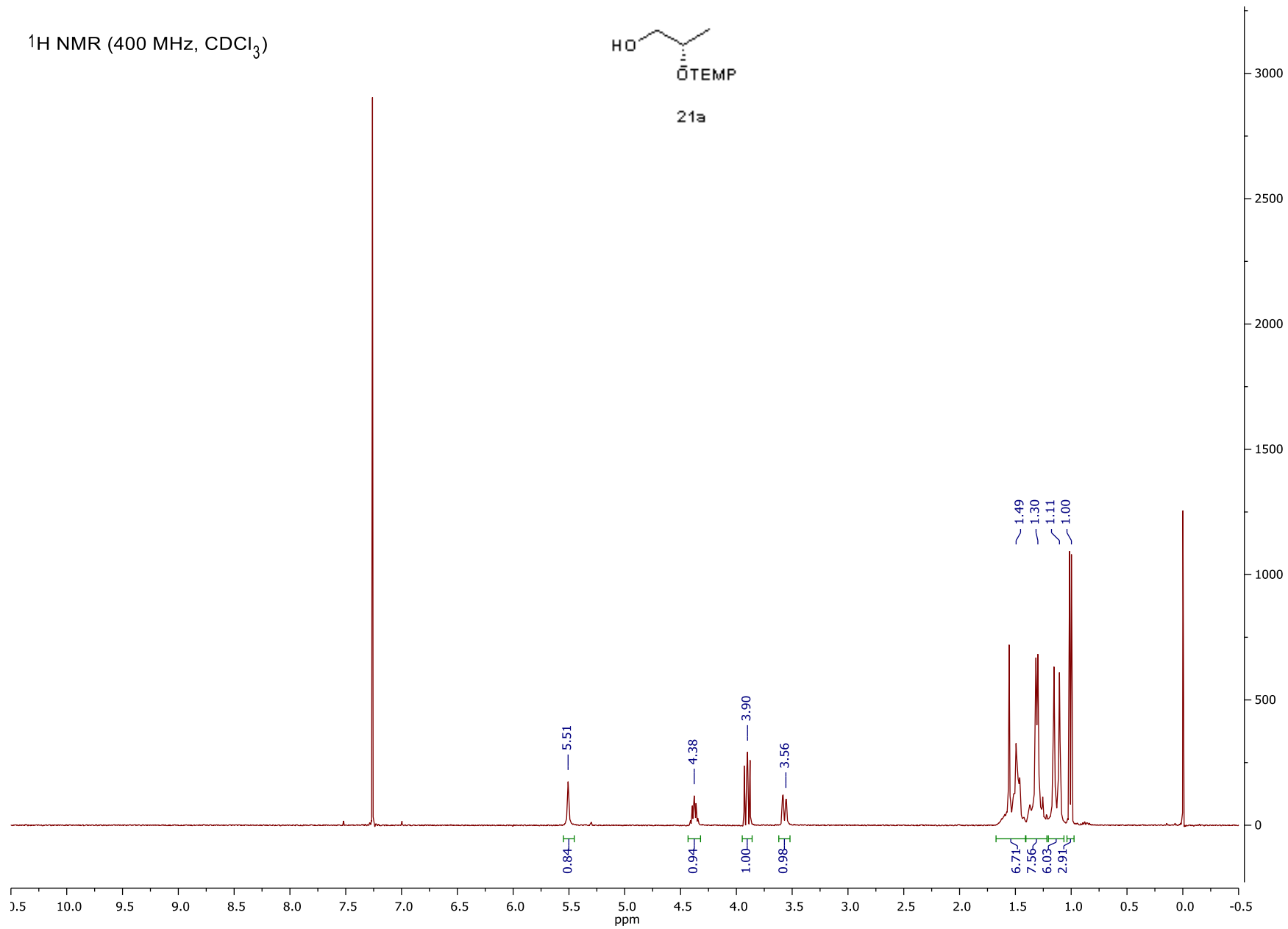
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>)



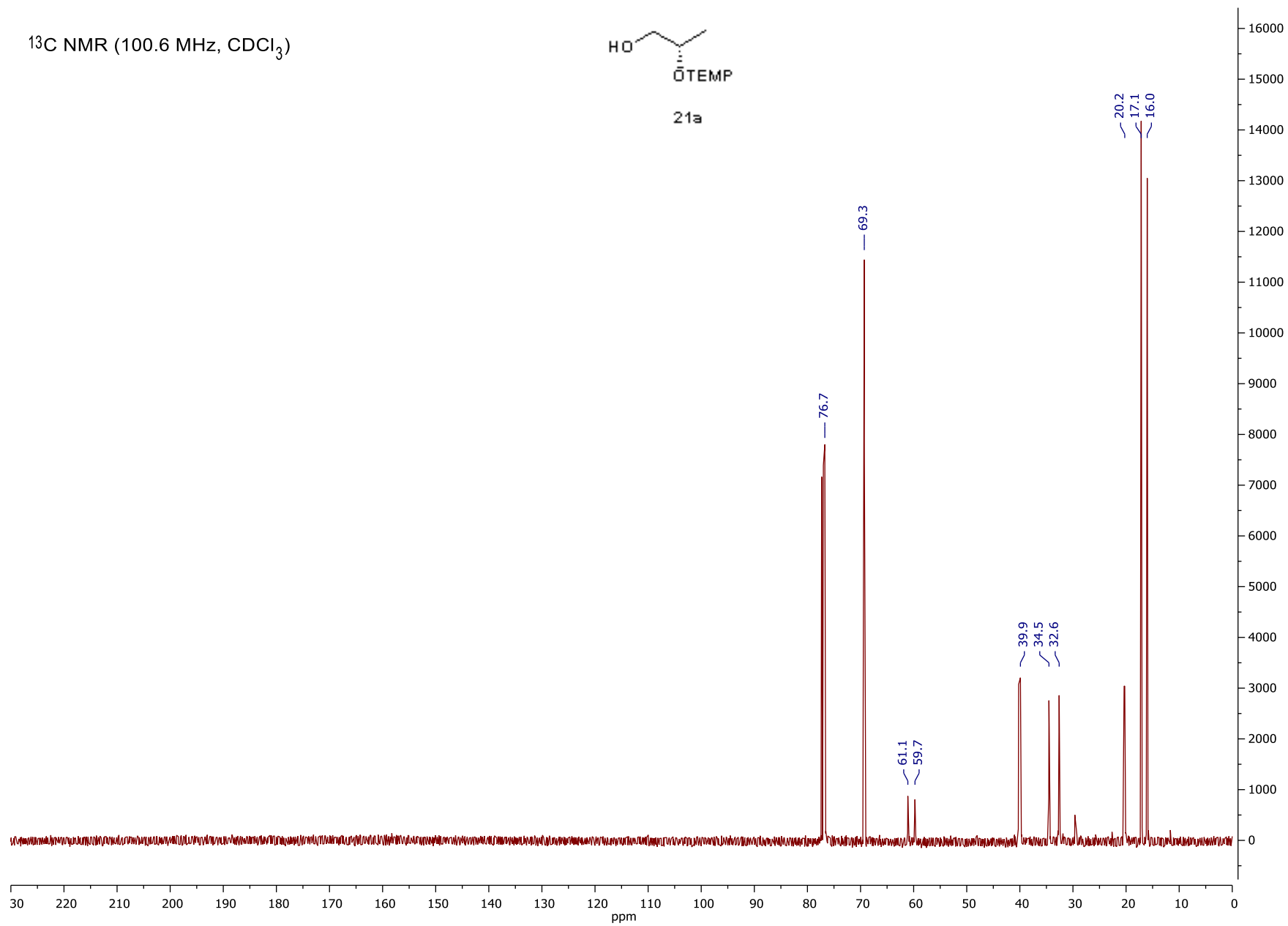
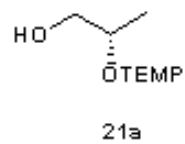


$^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ )

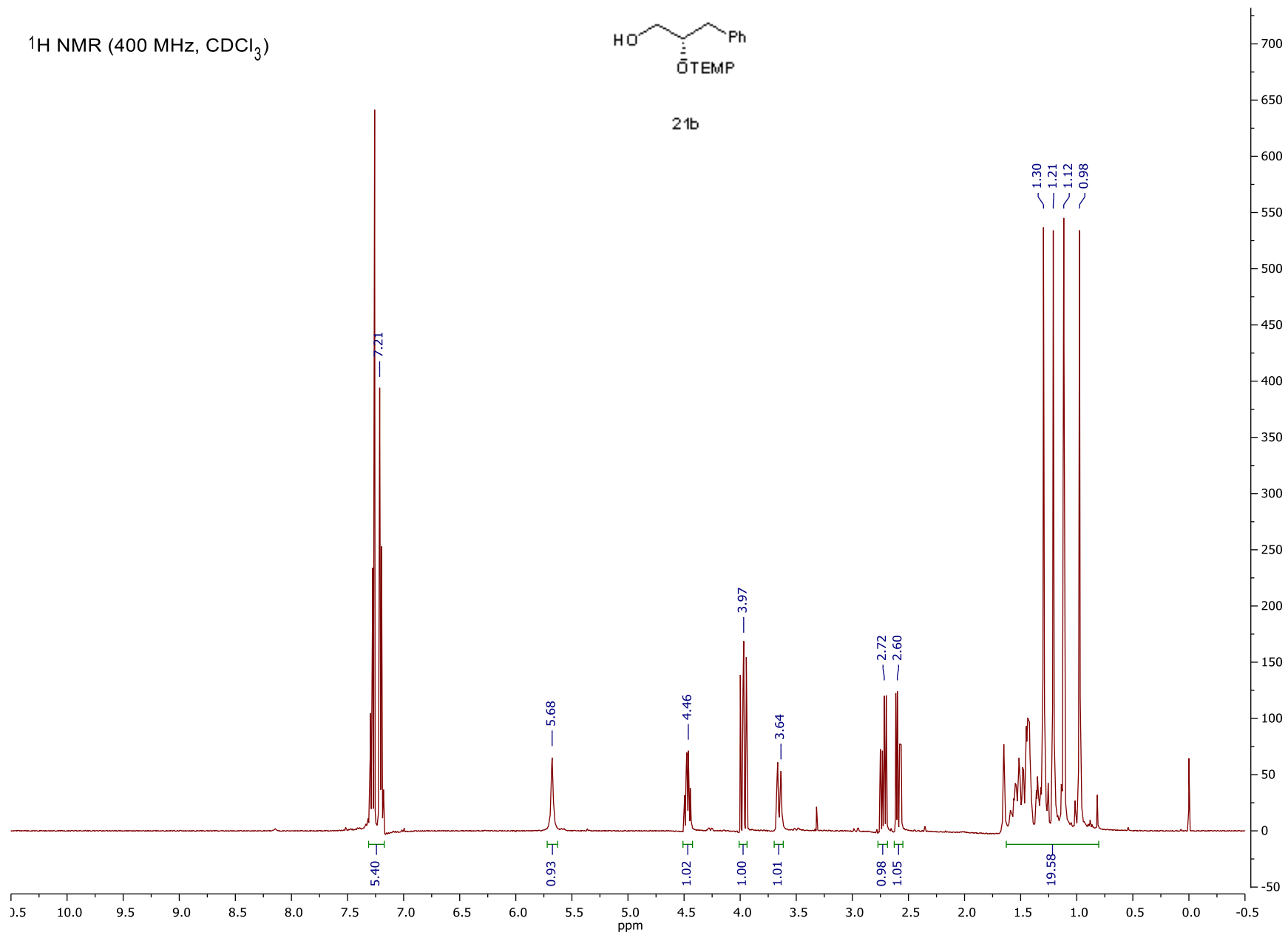
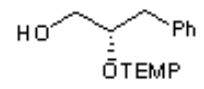




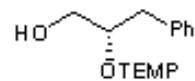
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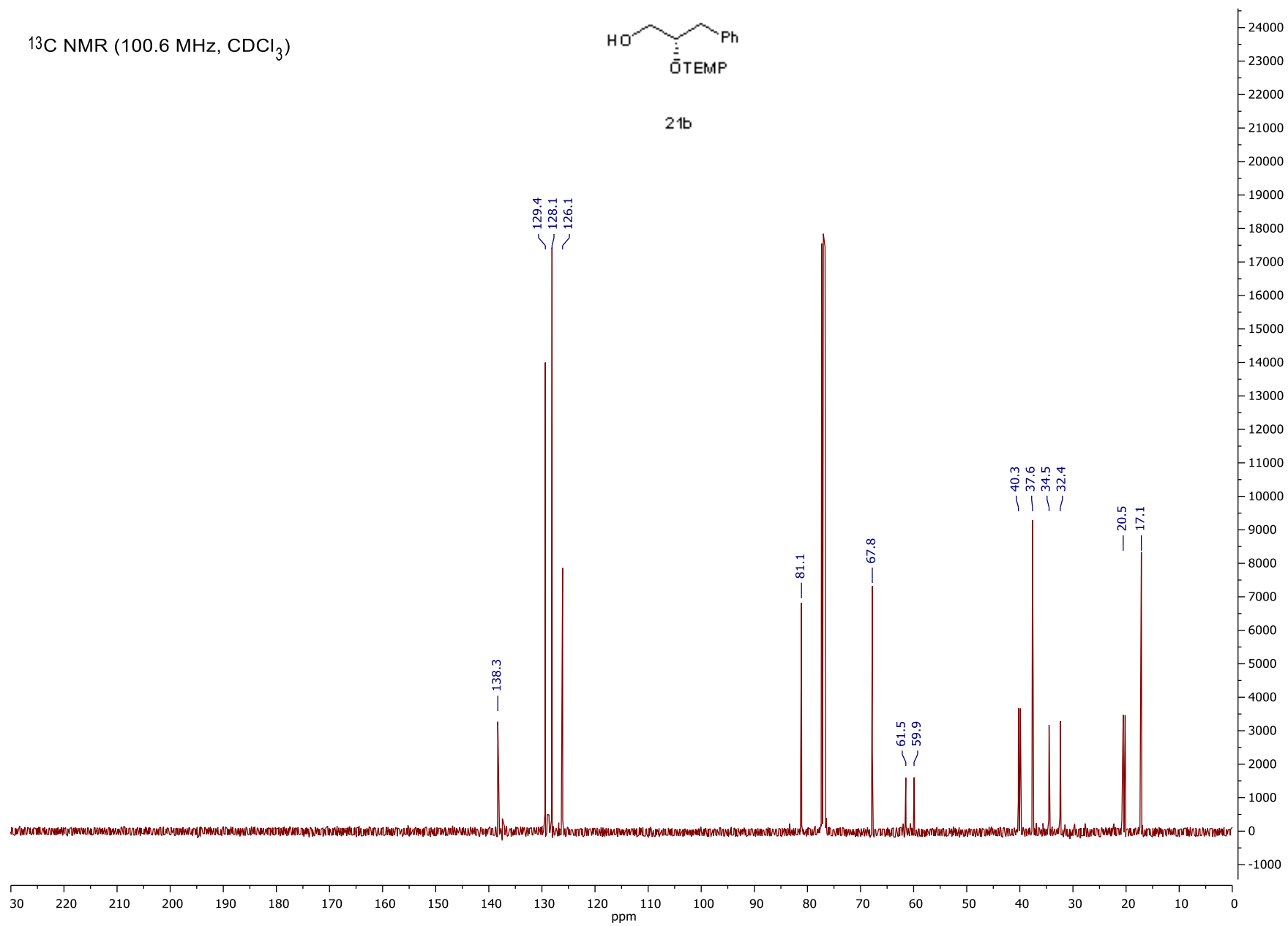
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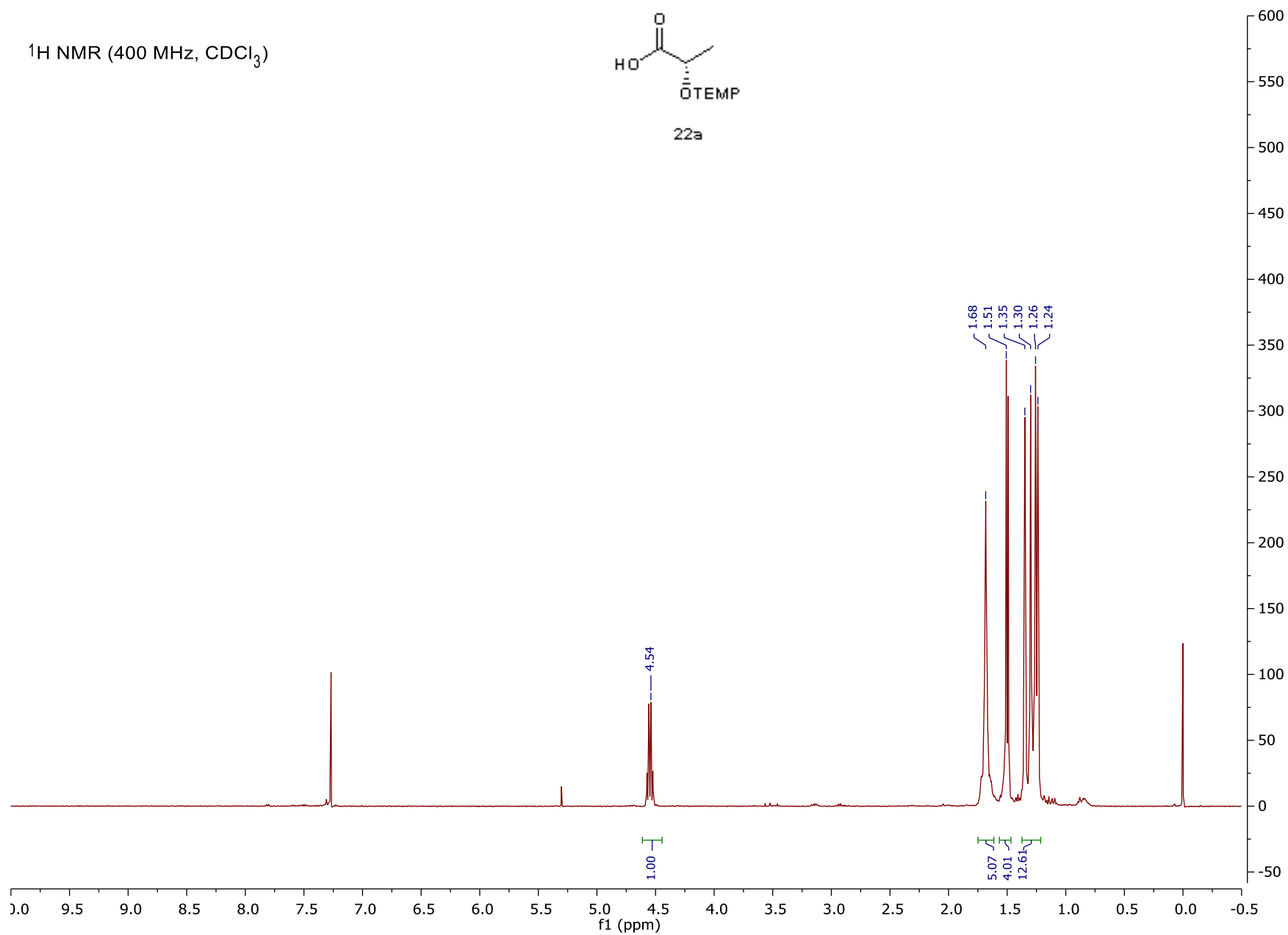
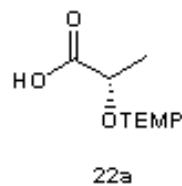
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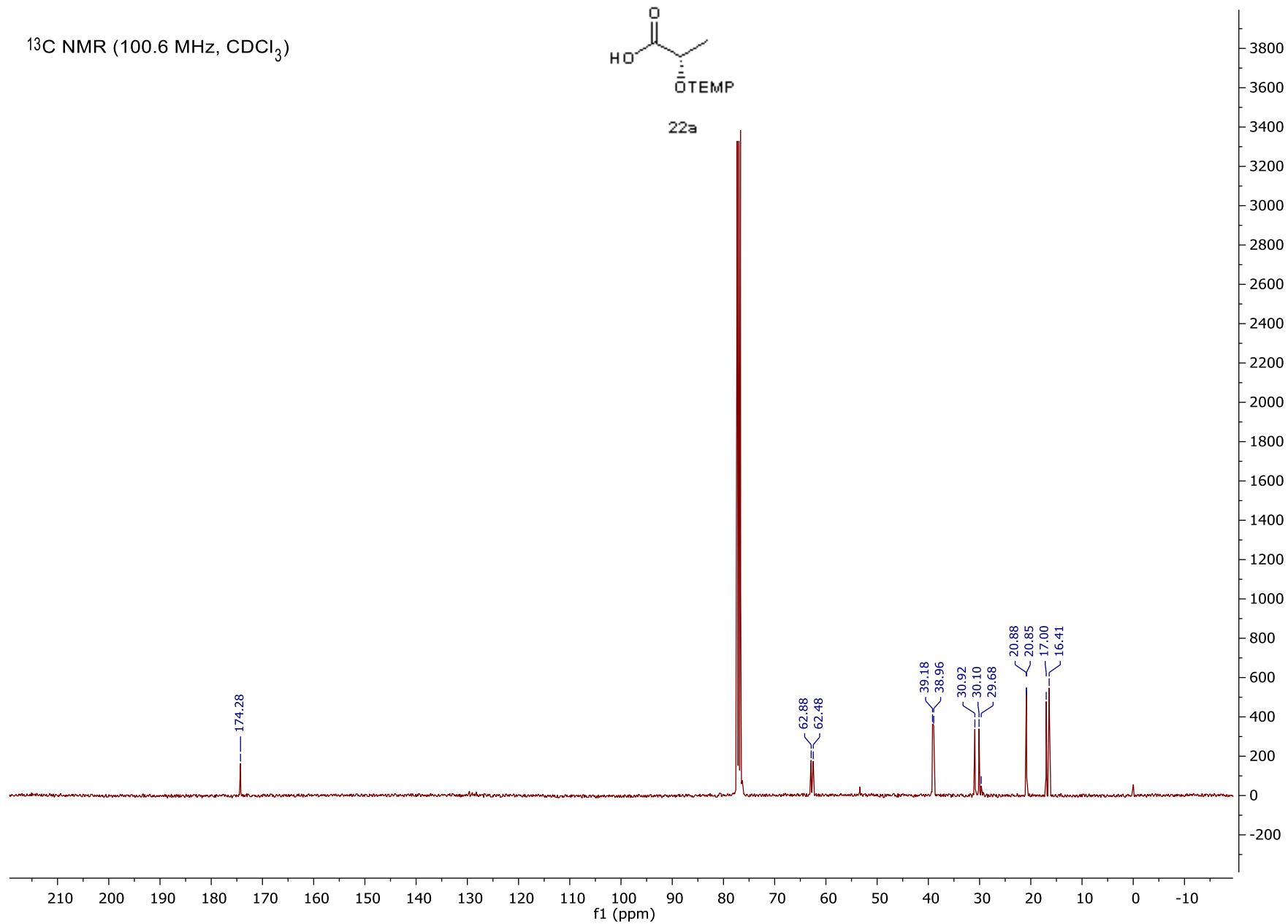
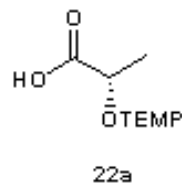
21b



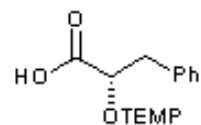
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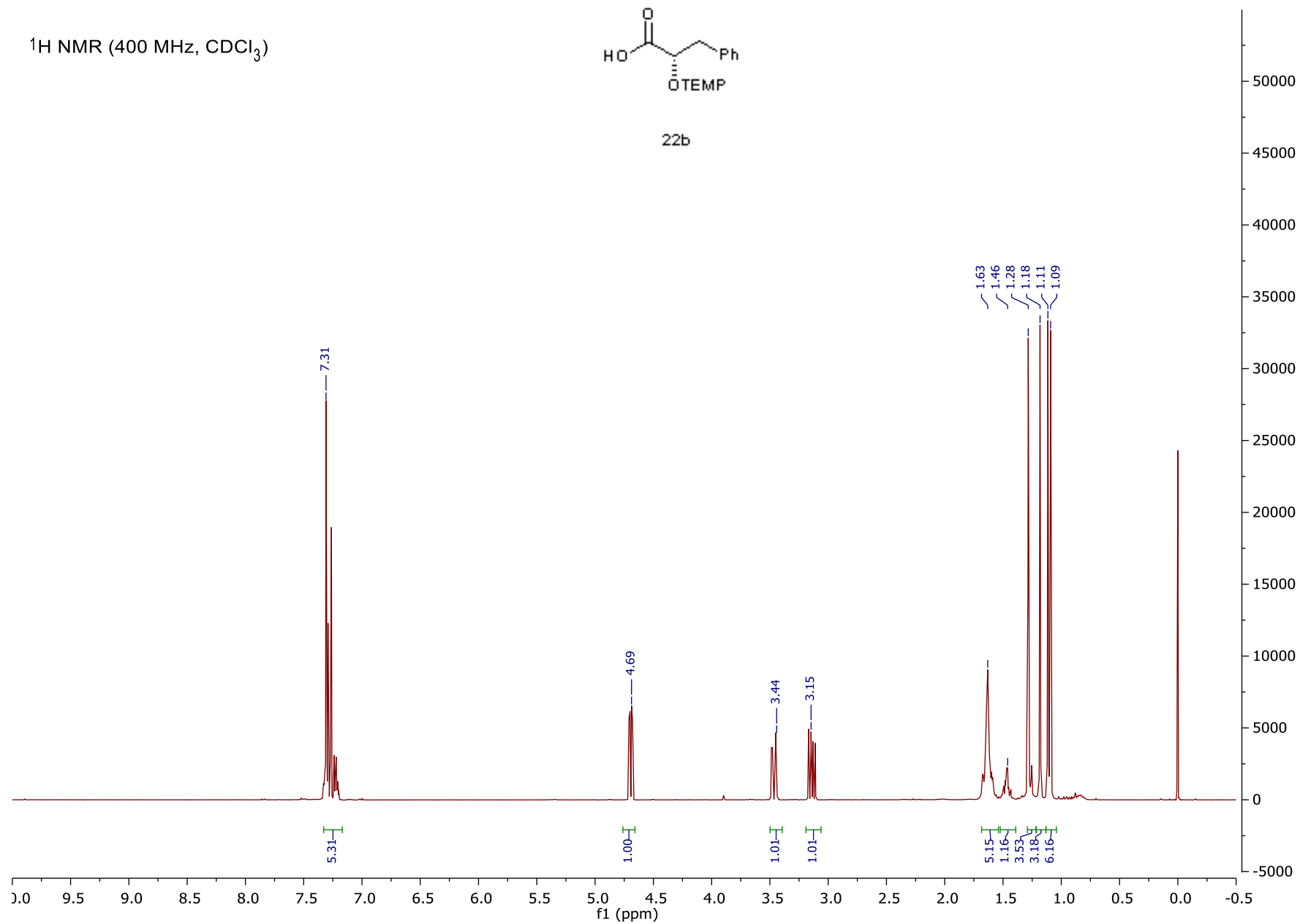
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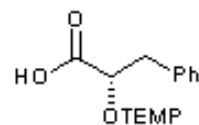


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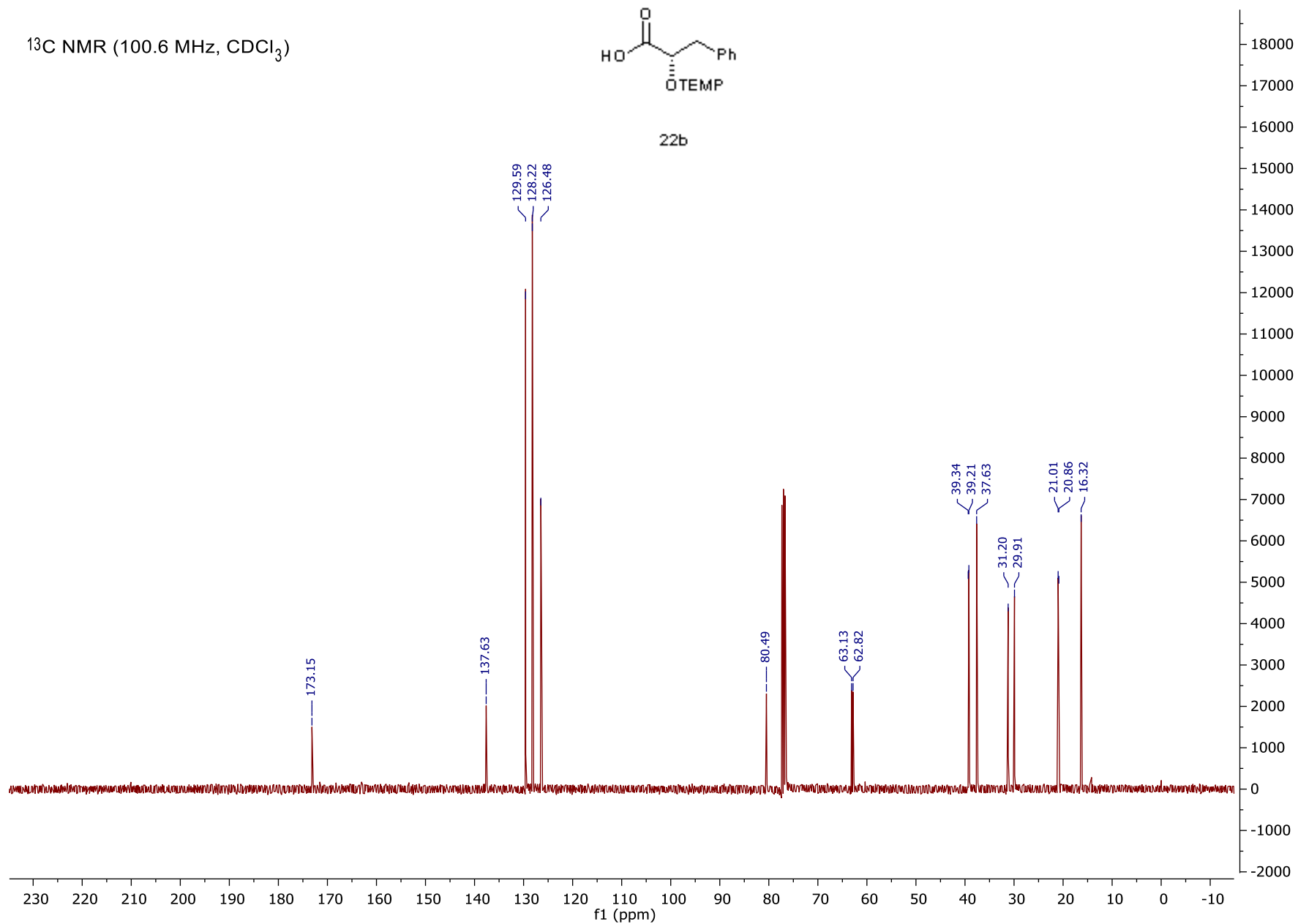




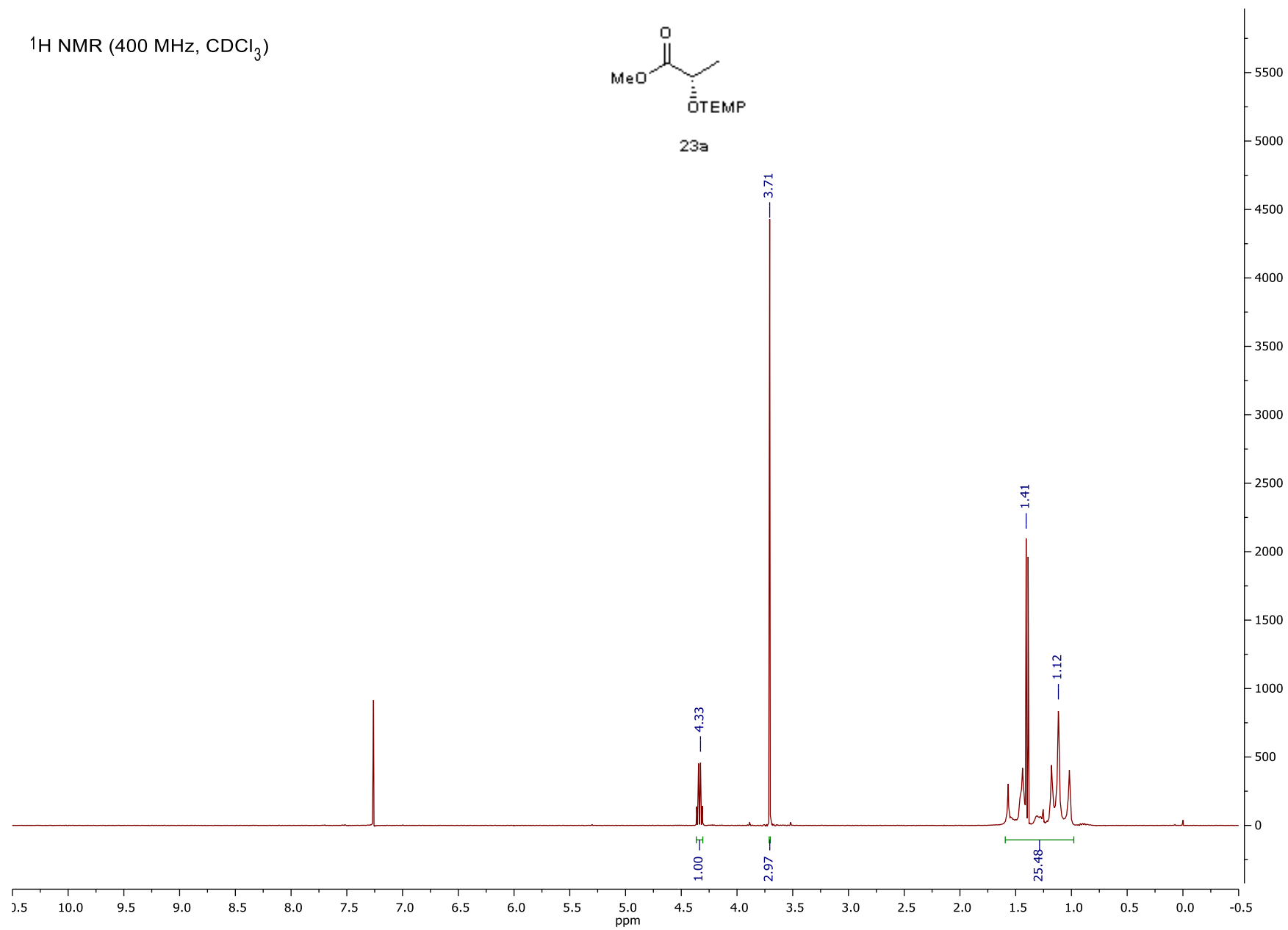
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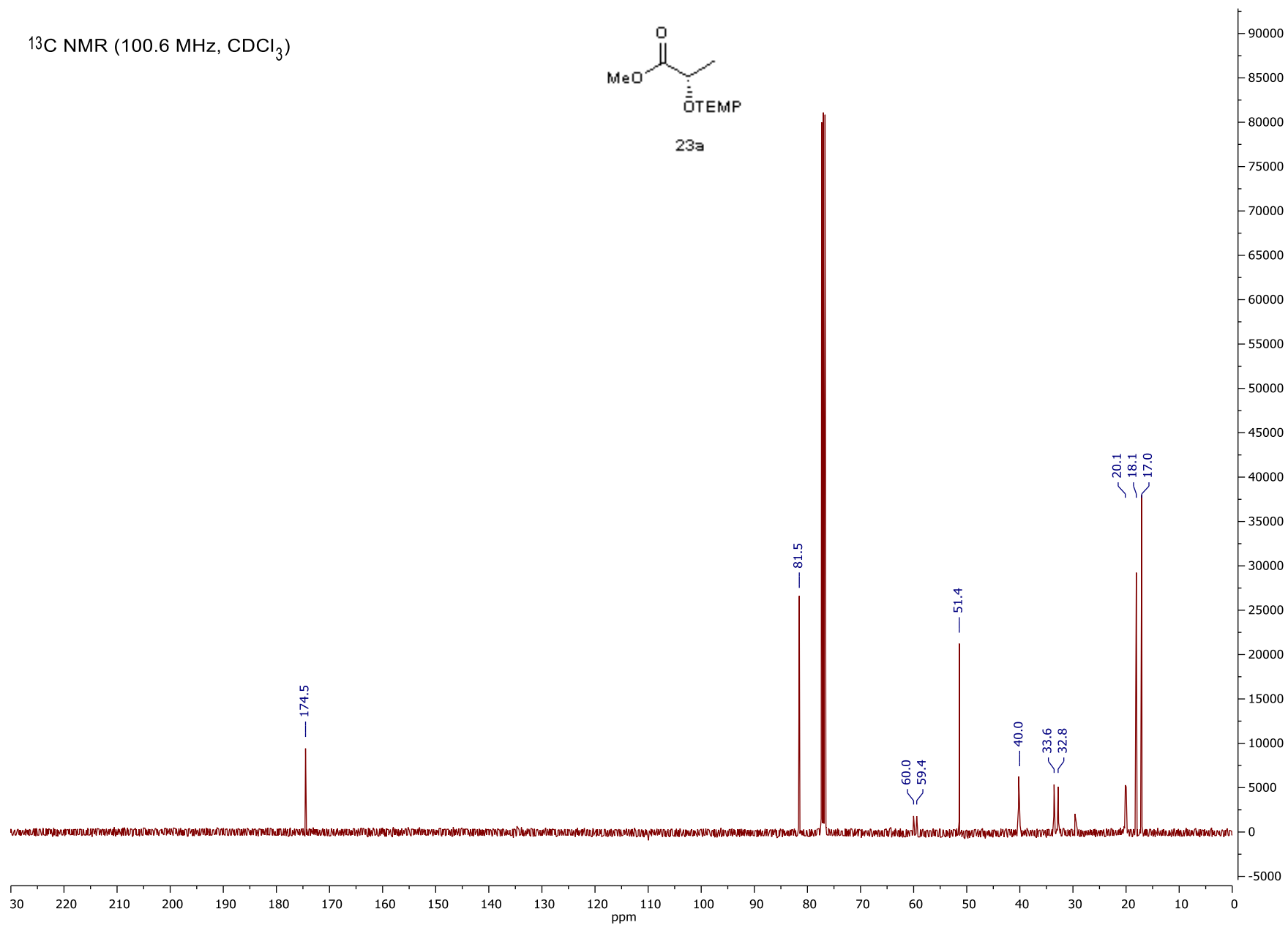
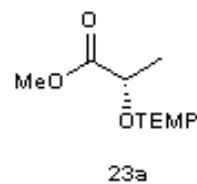
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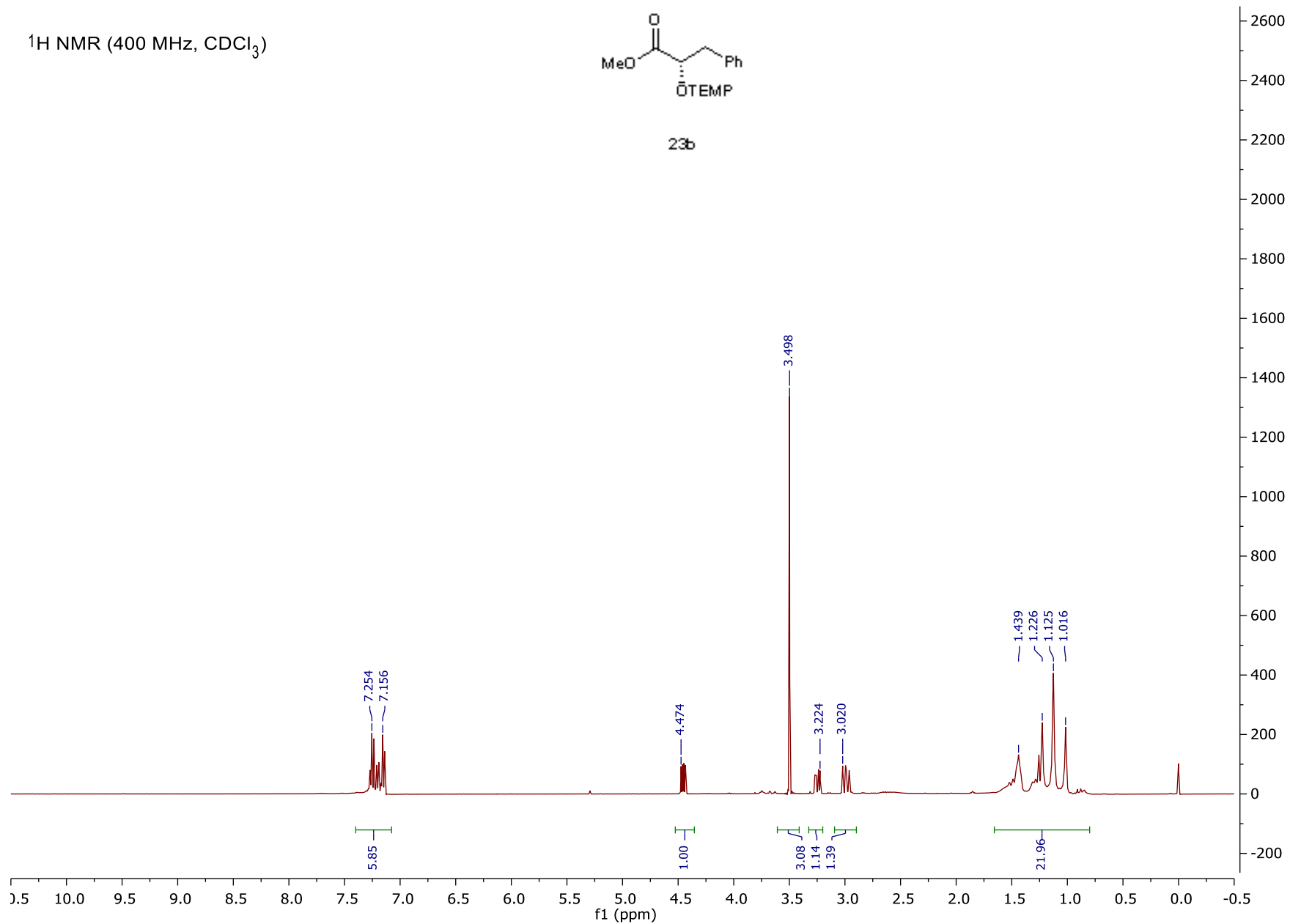
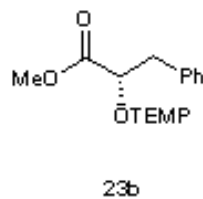
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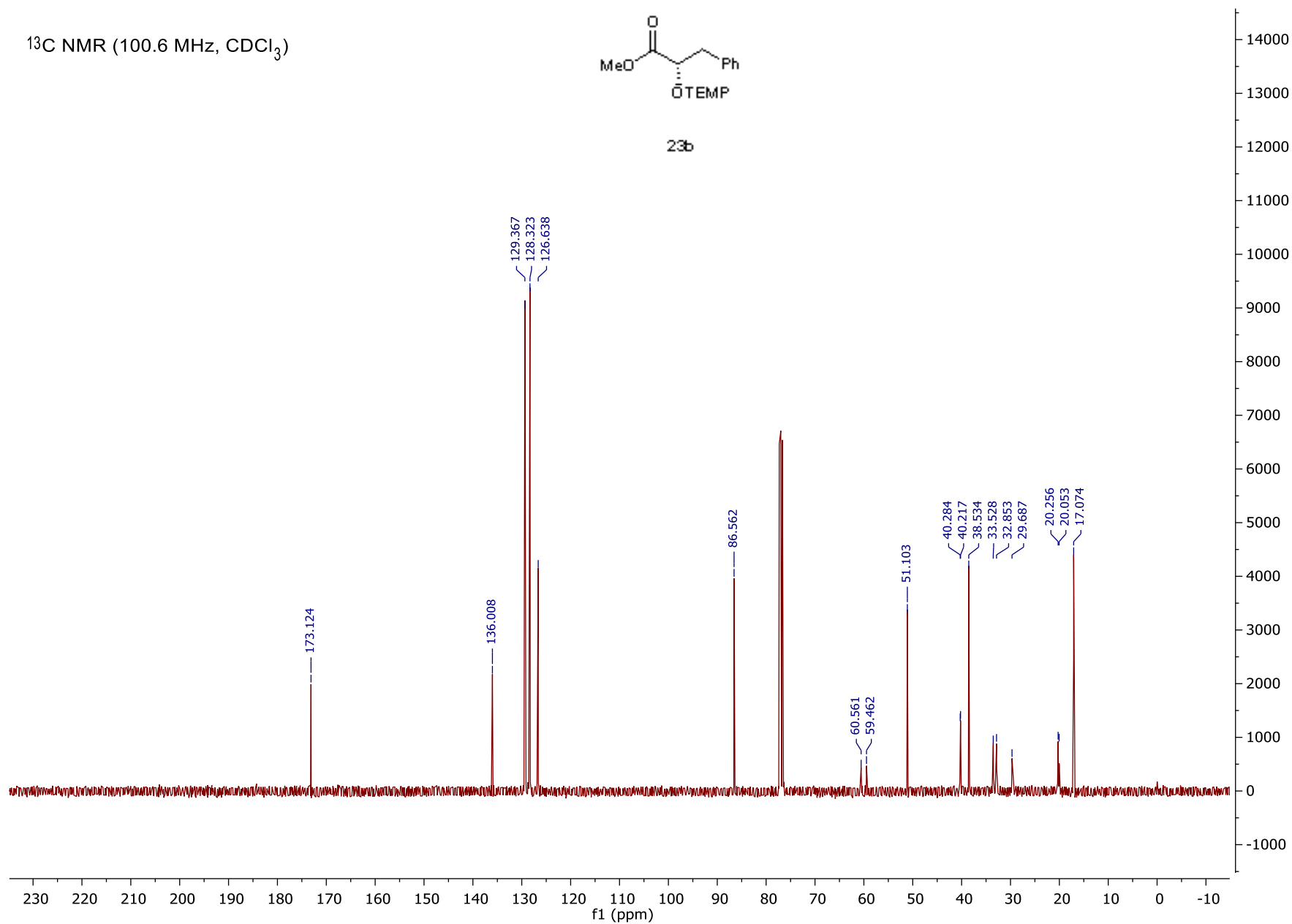
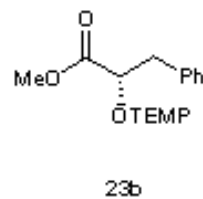
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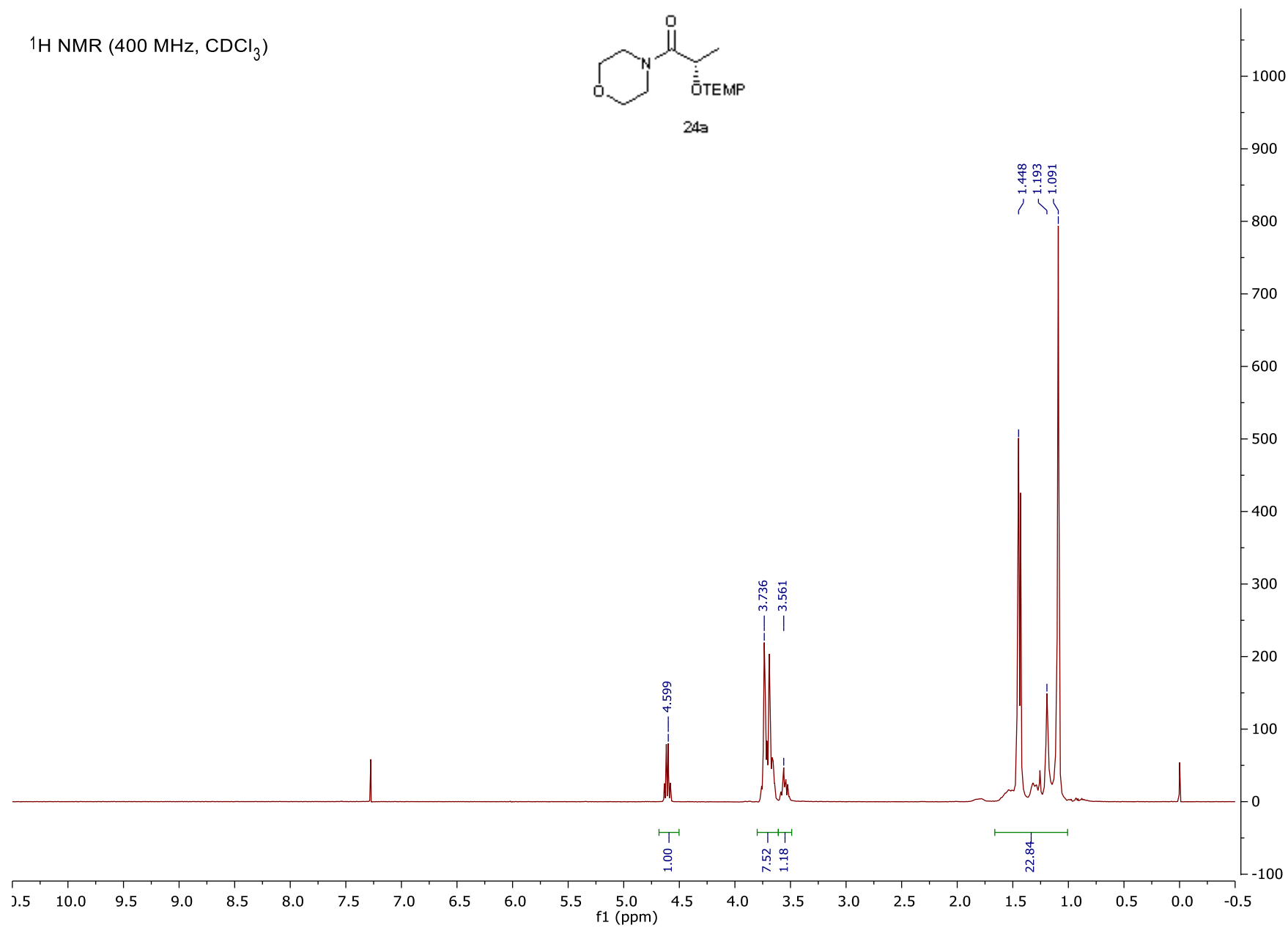
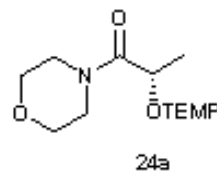
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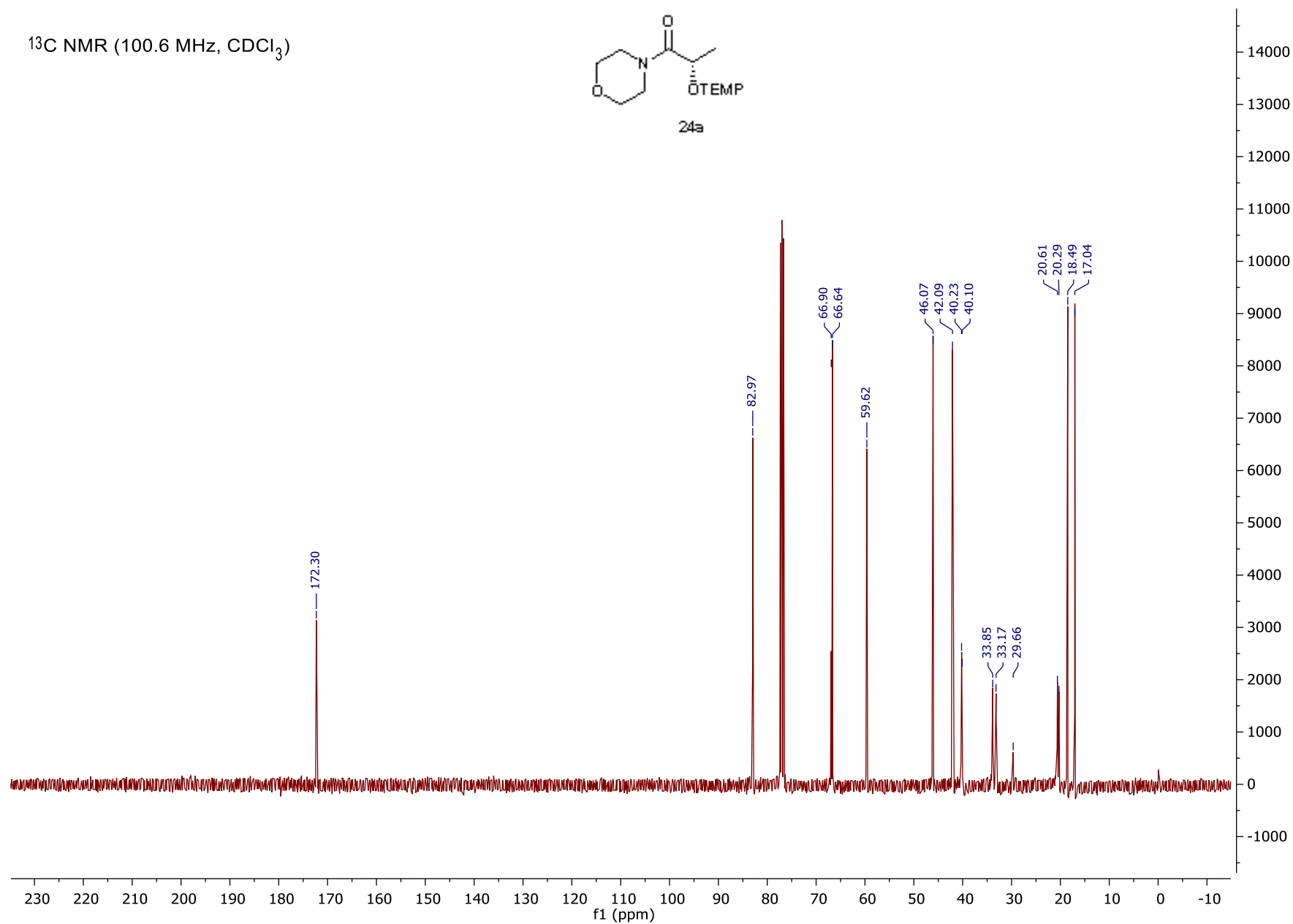
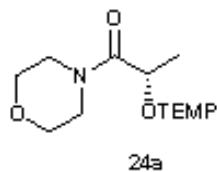
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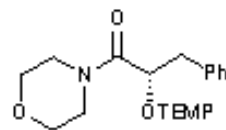
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>)



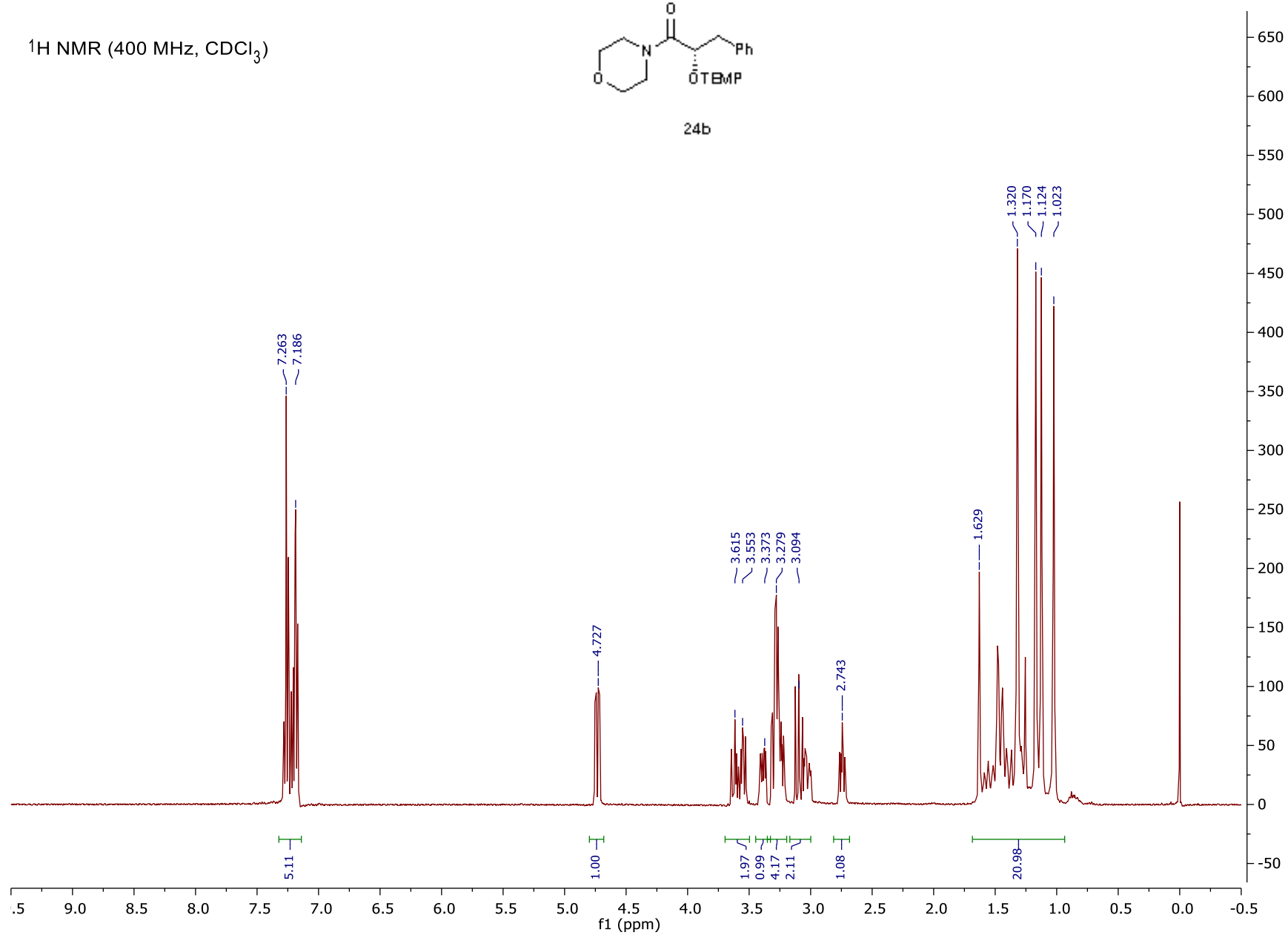
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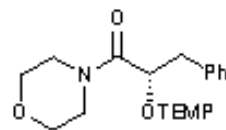


24b

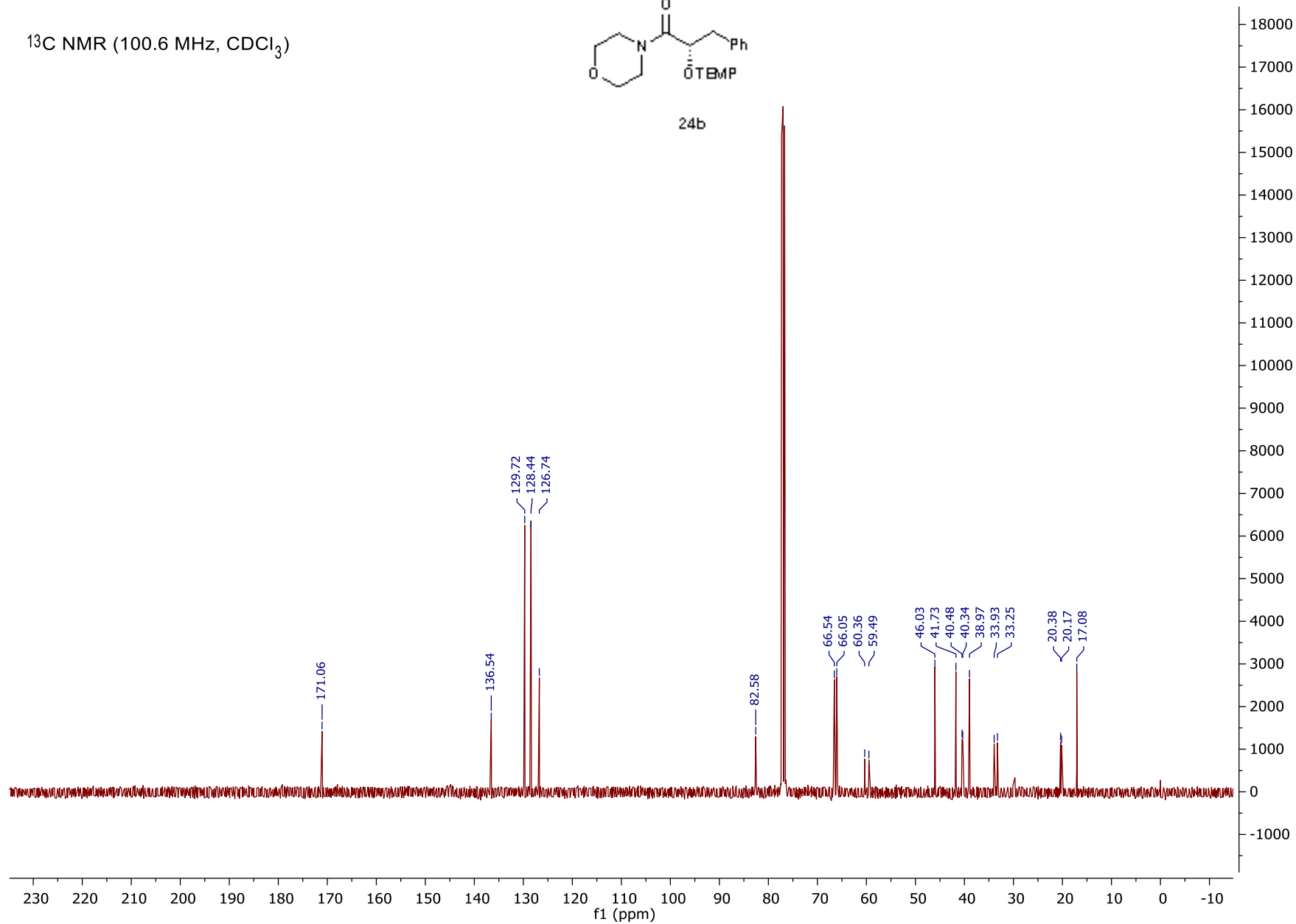




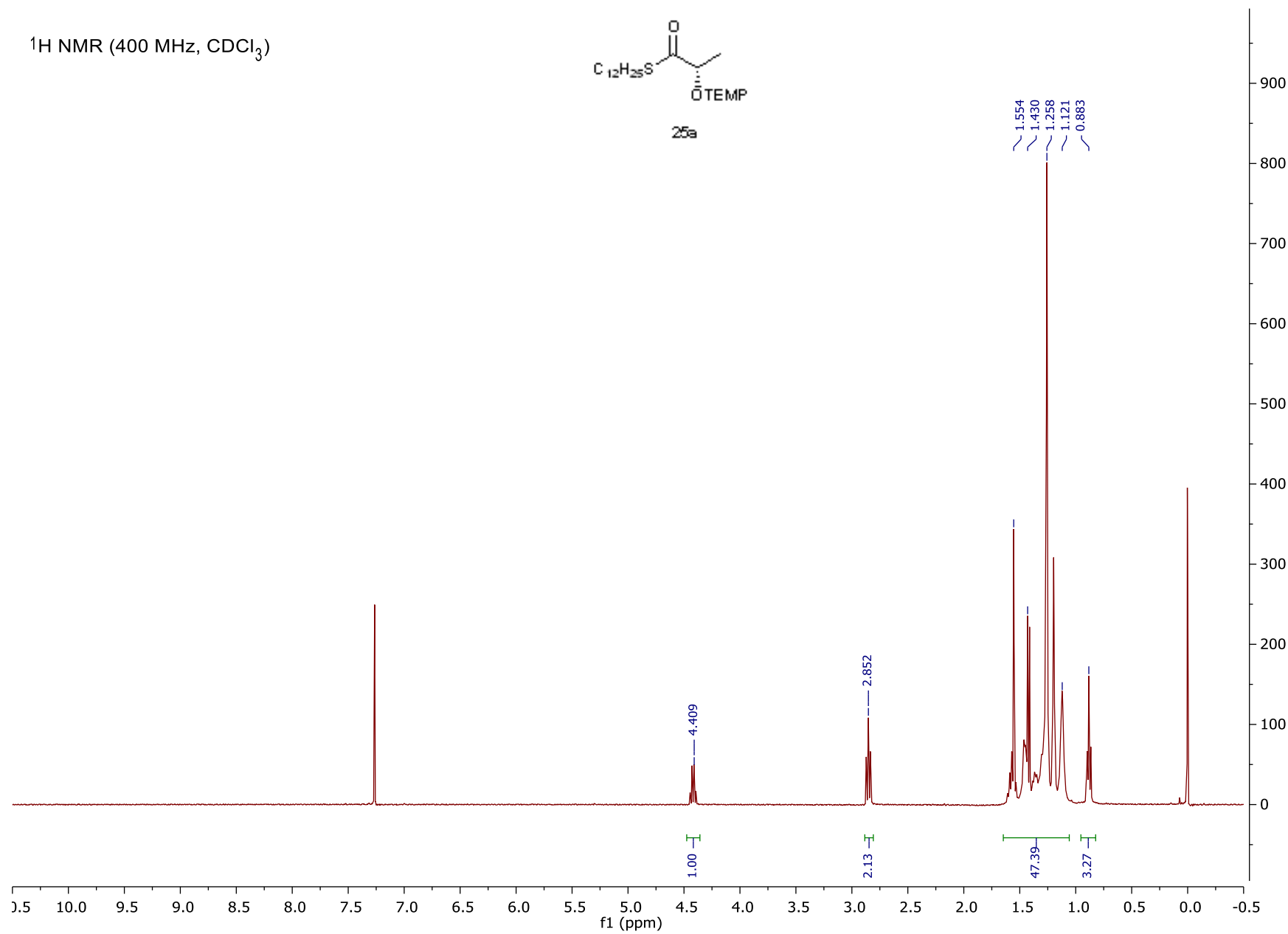
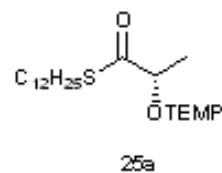
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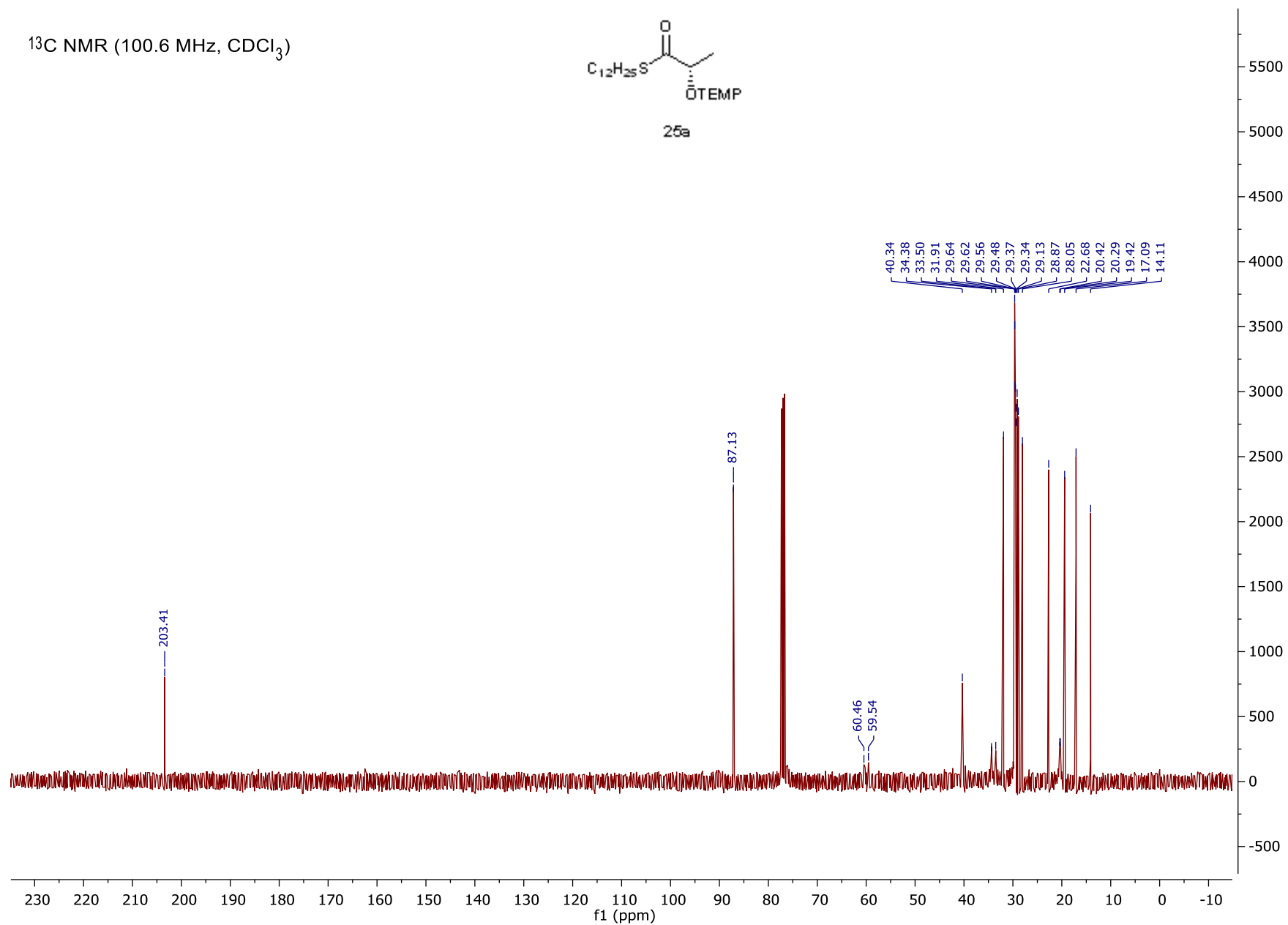
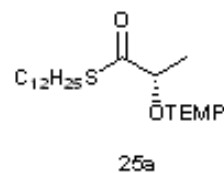
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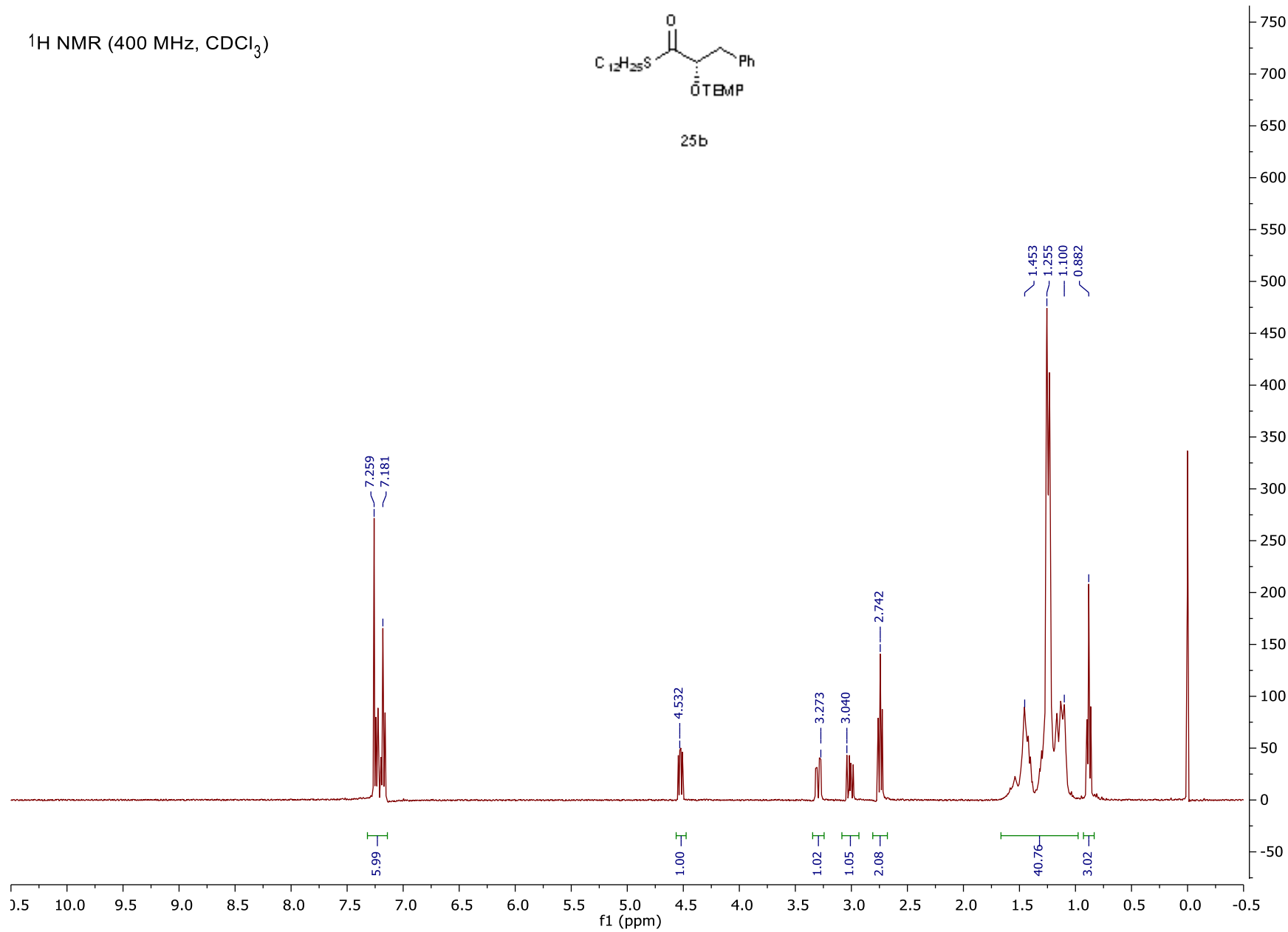


$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ )



$^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ )





$^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ )

