

Supporting Information
IR and NMR spectra of all reaction products, including all new substrate compounds

Palladium-Catalysed Atom-Economical Synthesis of Conjugated Dienals from Terminal Acetylenes and Acrolein

Zoë Hearne, Chao-Jun Li

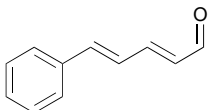
Department of Chemistry, McGill University, Montréal, Canada

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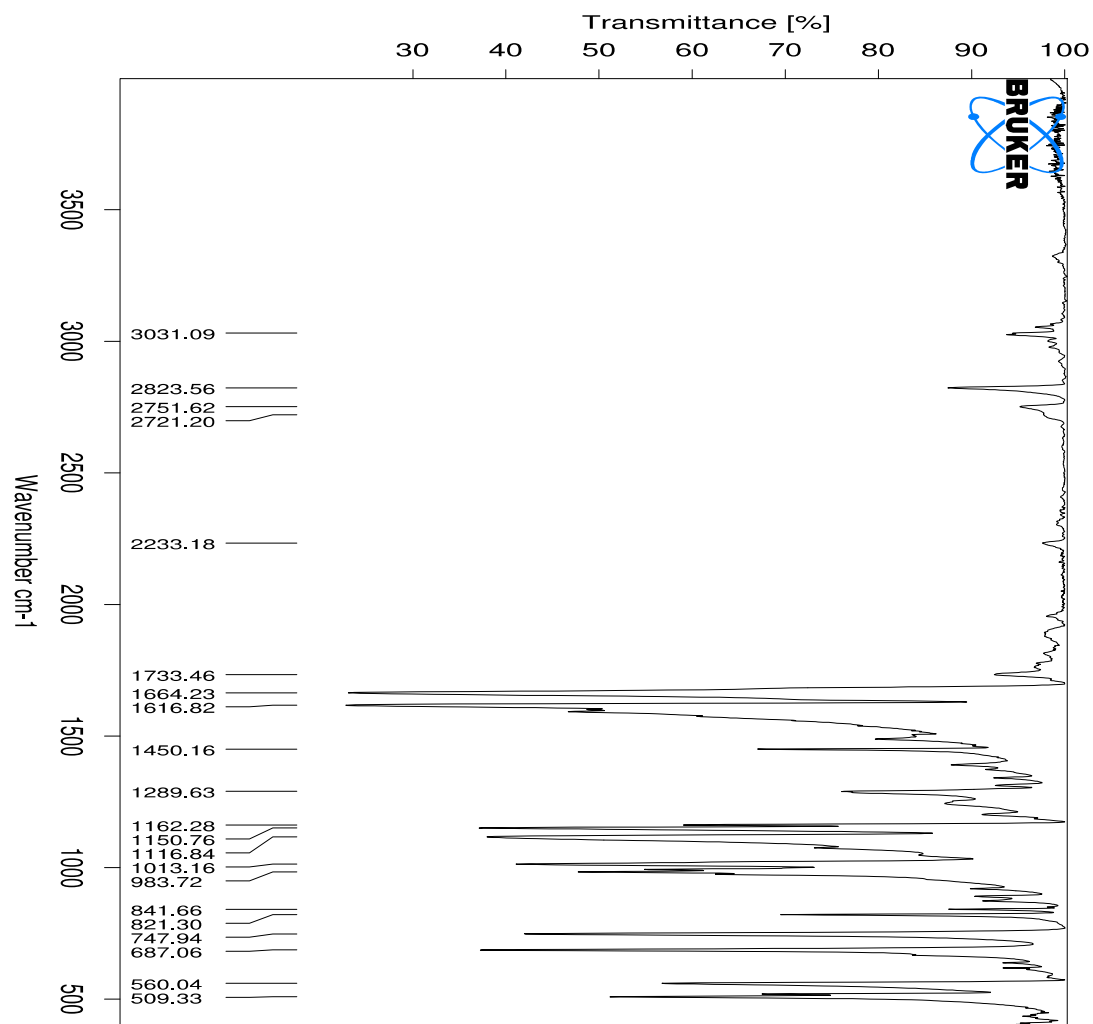
Data for Dienal, Dienone and Dienoate Products, **4a – 4o**

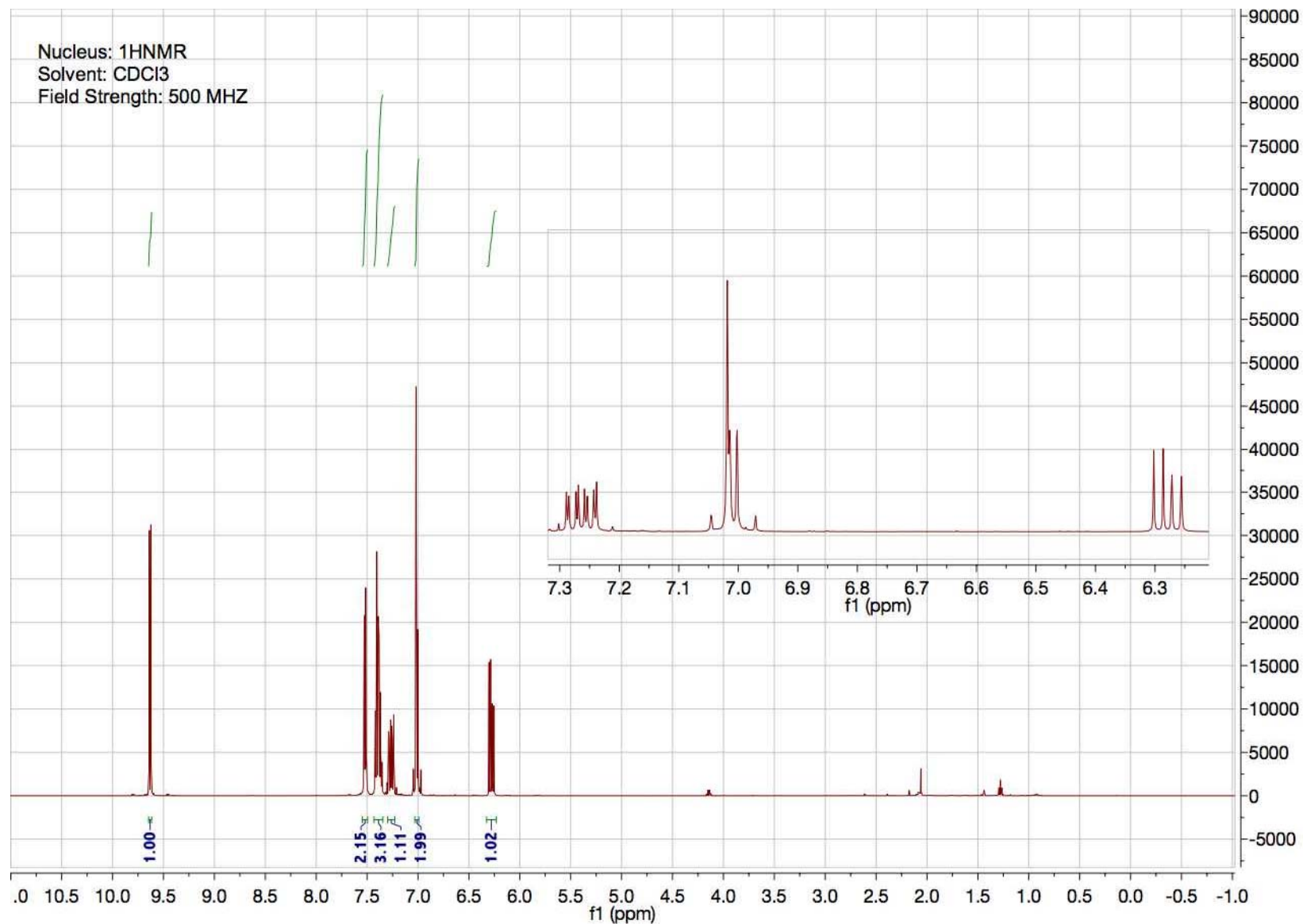
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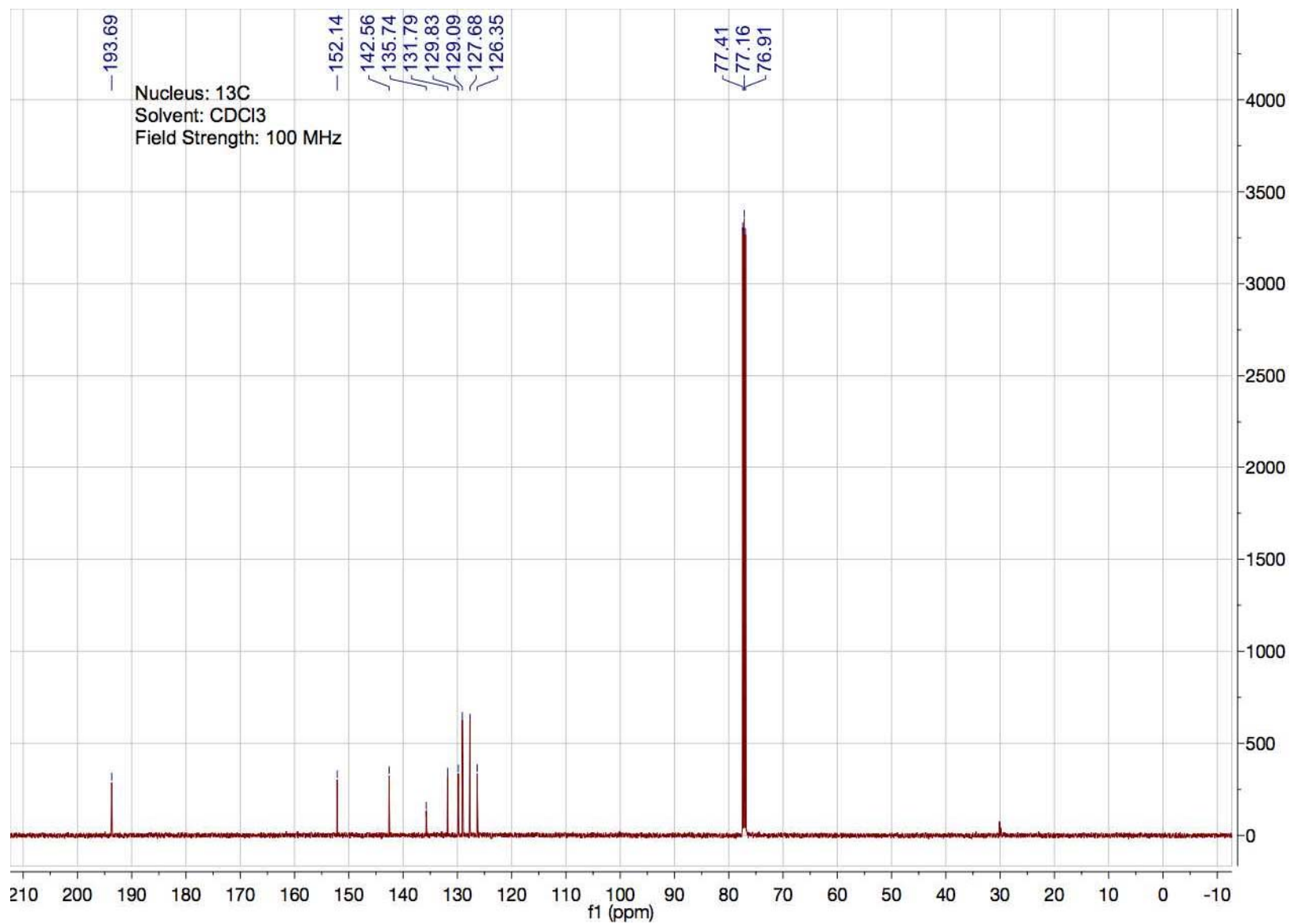


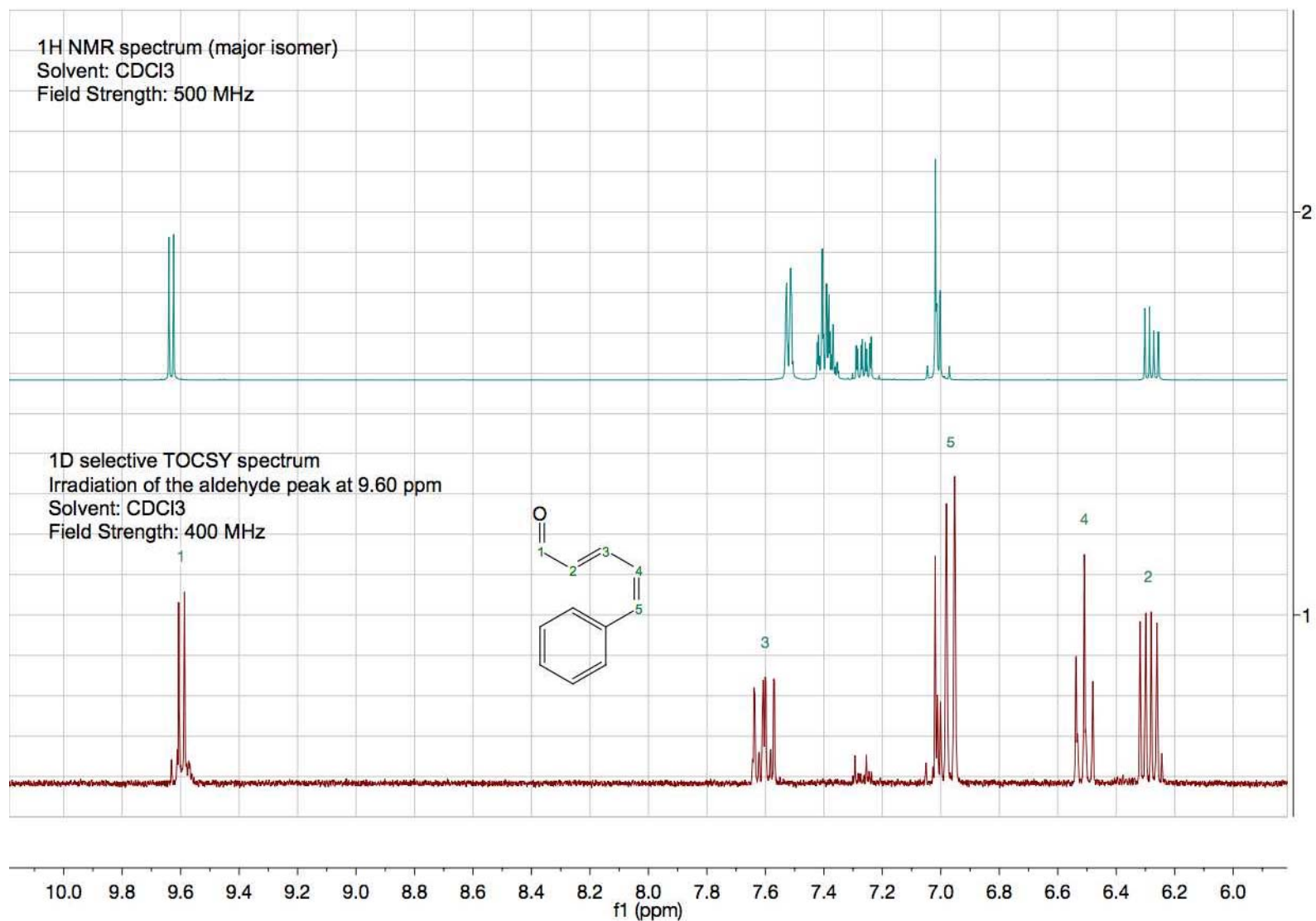
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C:\OPUS_7\2.139\1294\Data\G1-L\Zoe5-phenylpent-2,4-dienal.0	5-phenylpent-2,4-dienal	solid
		28/11/2016

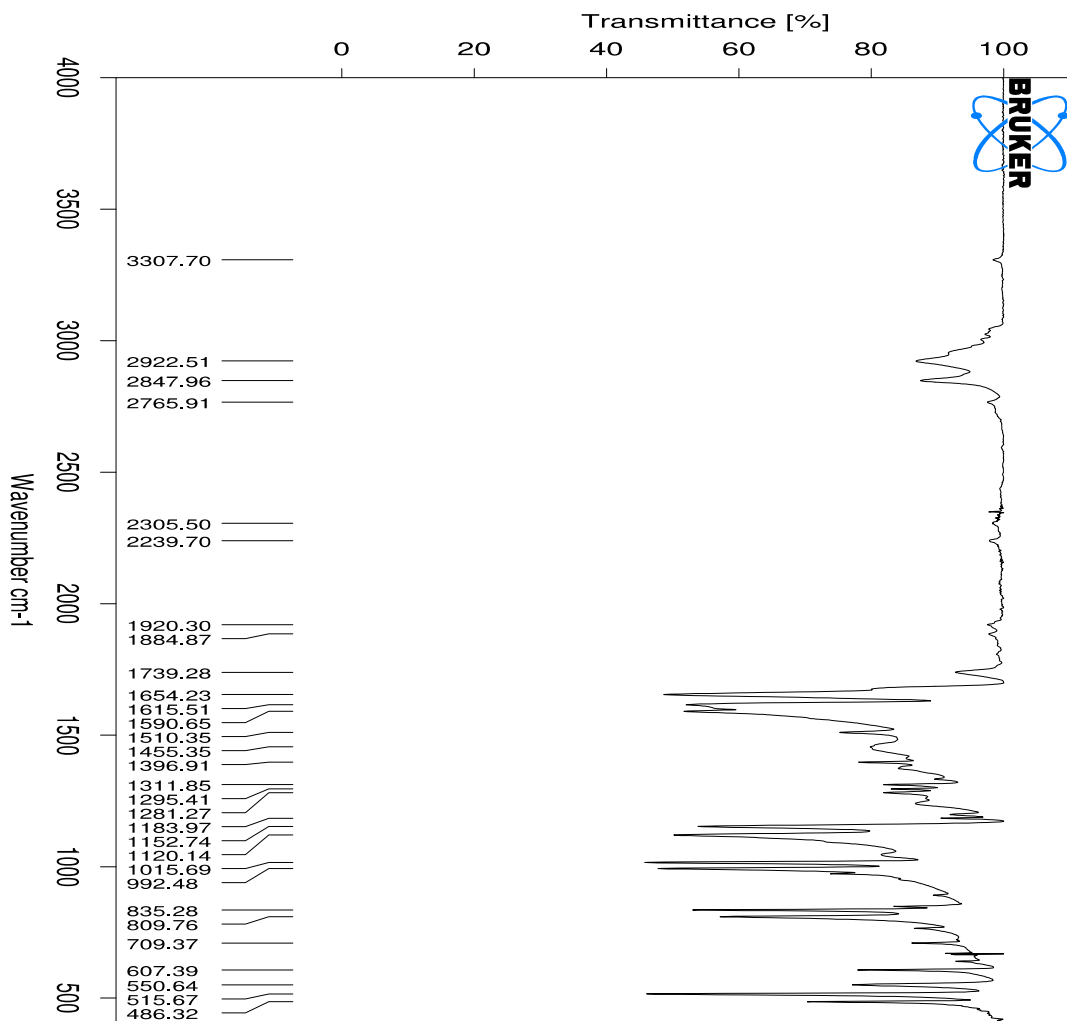
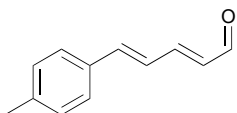








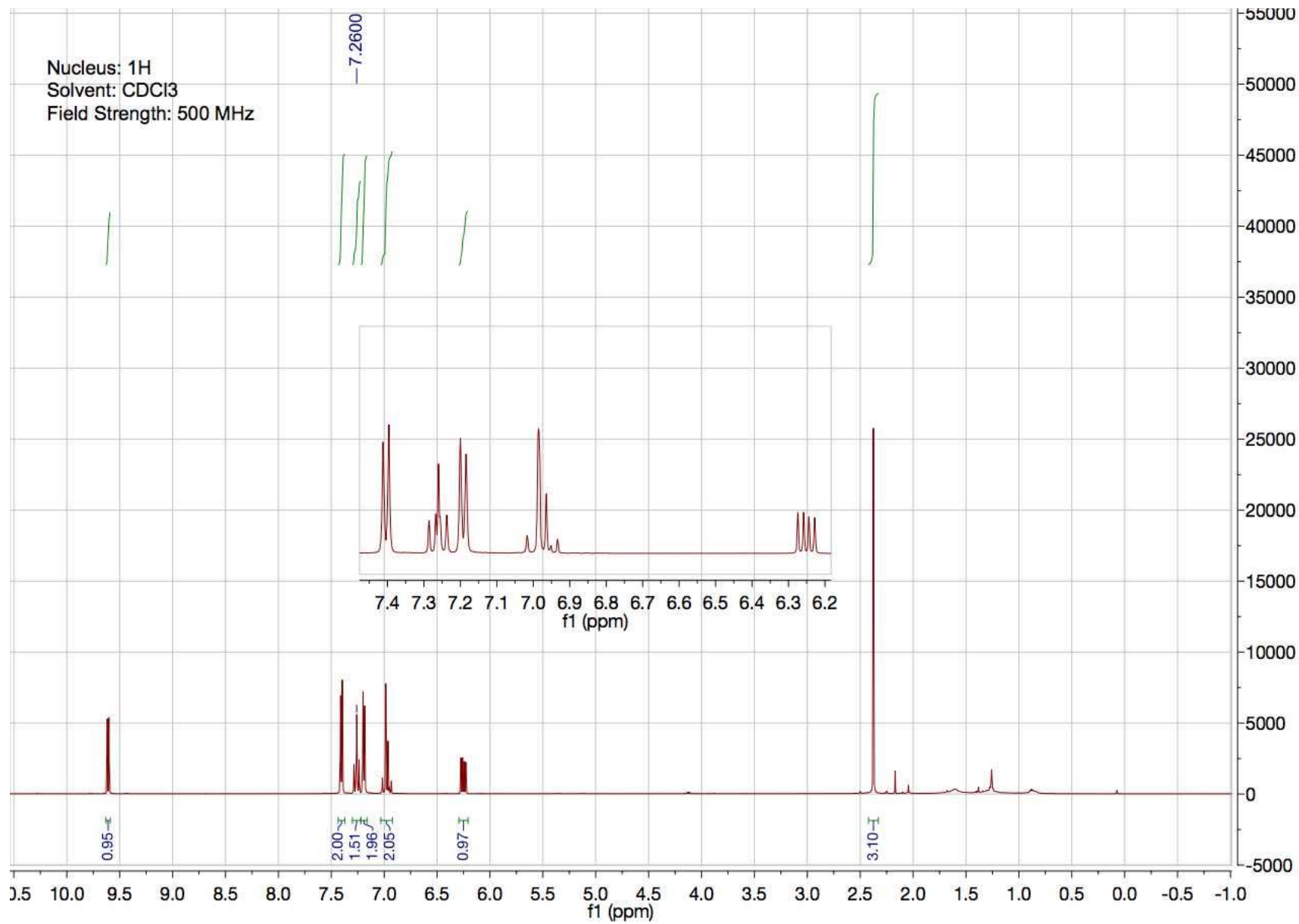
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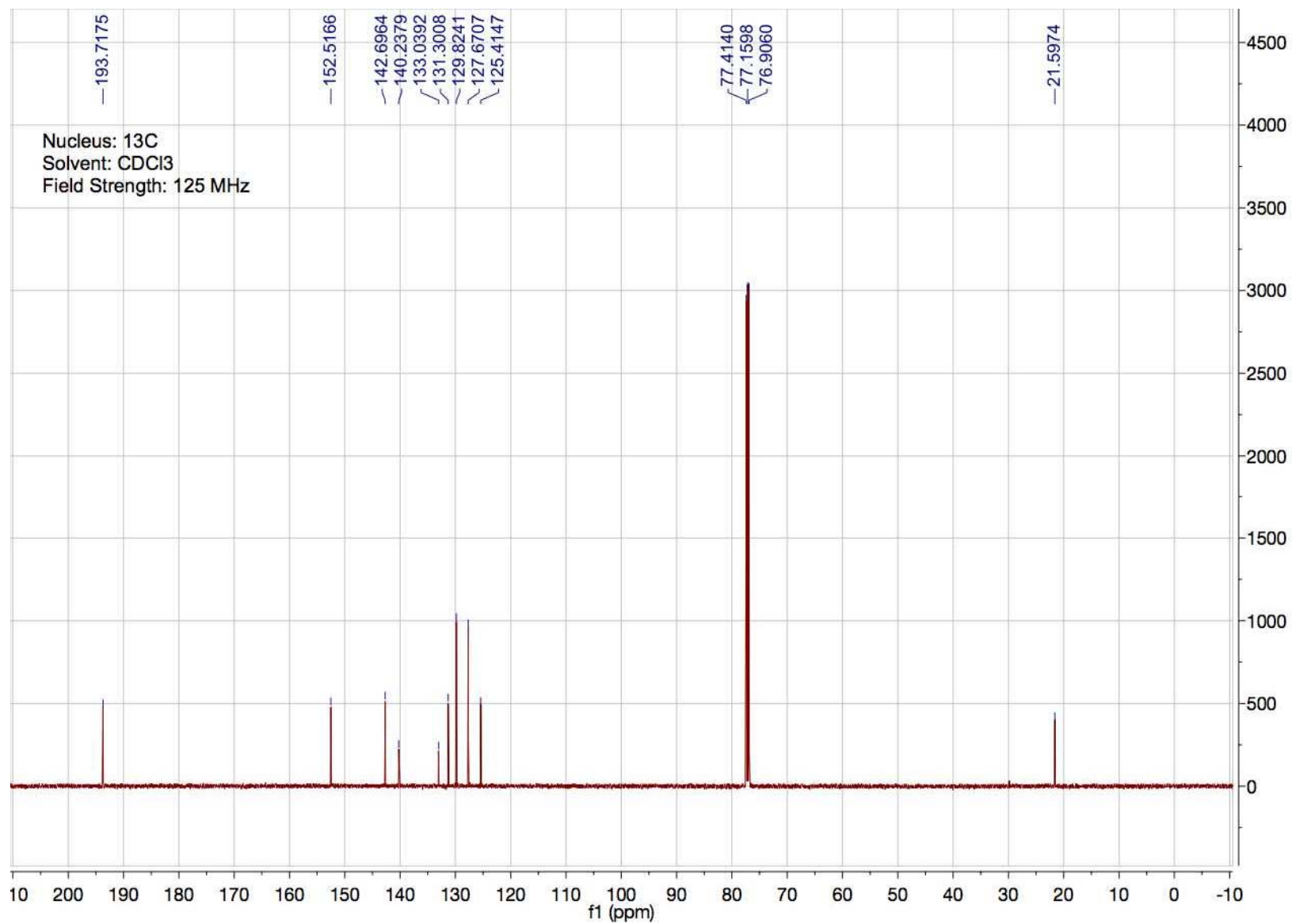


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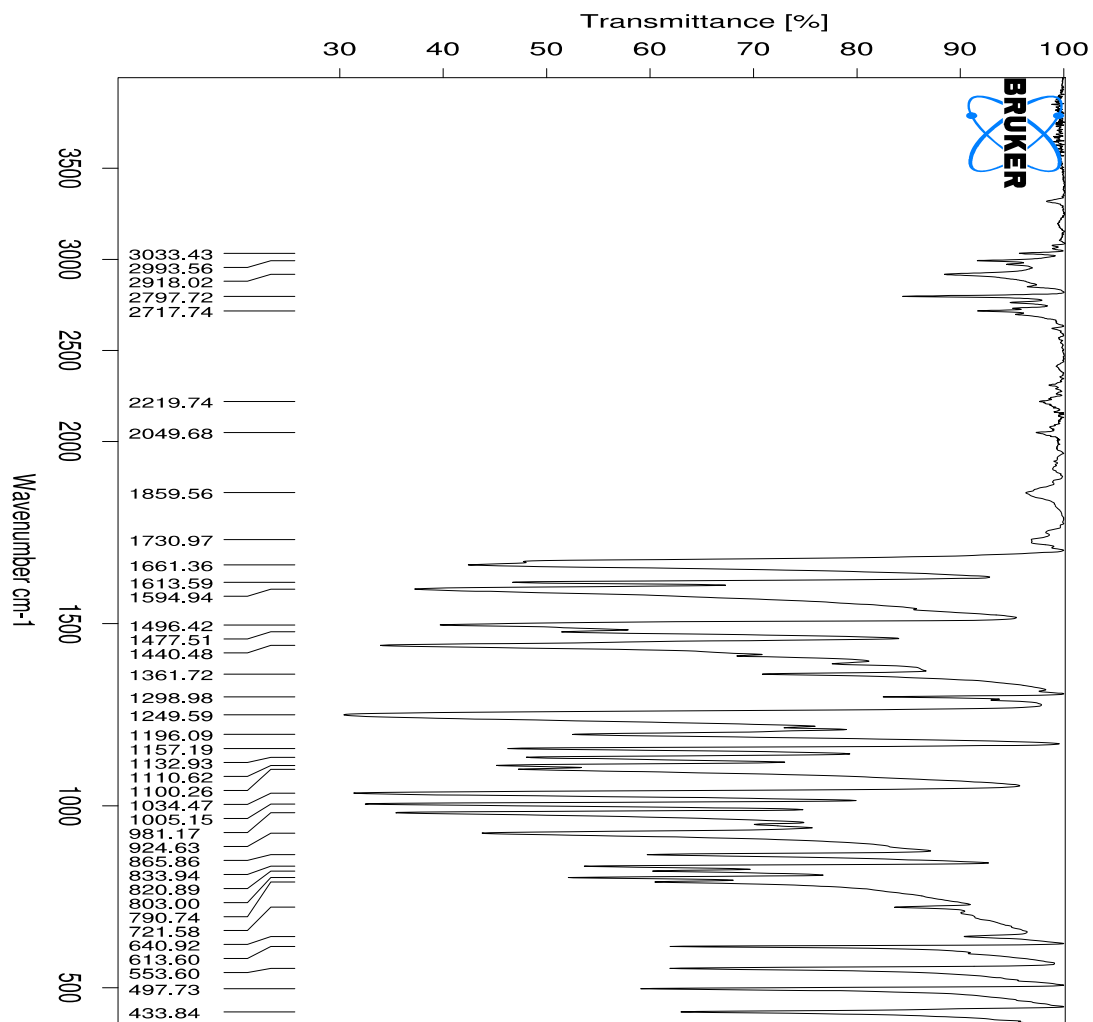
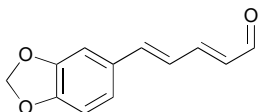
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10/02/2016





4c

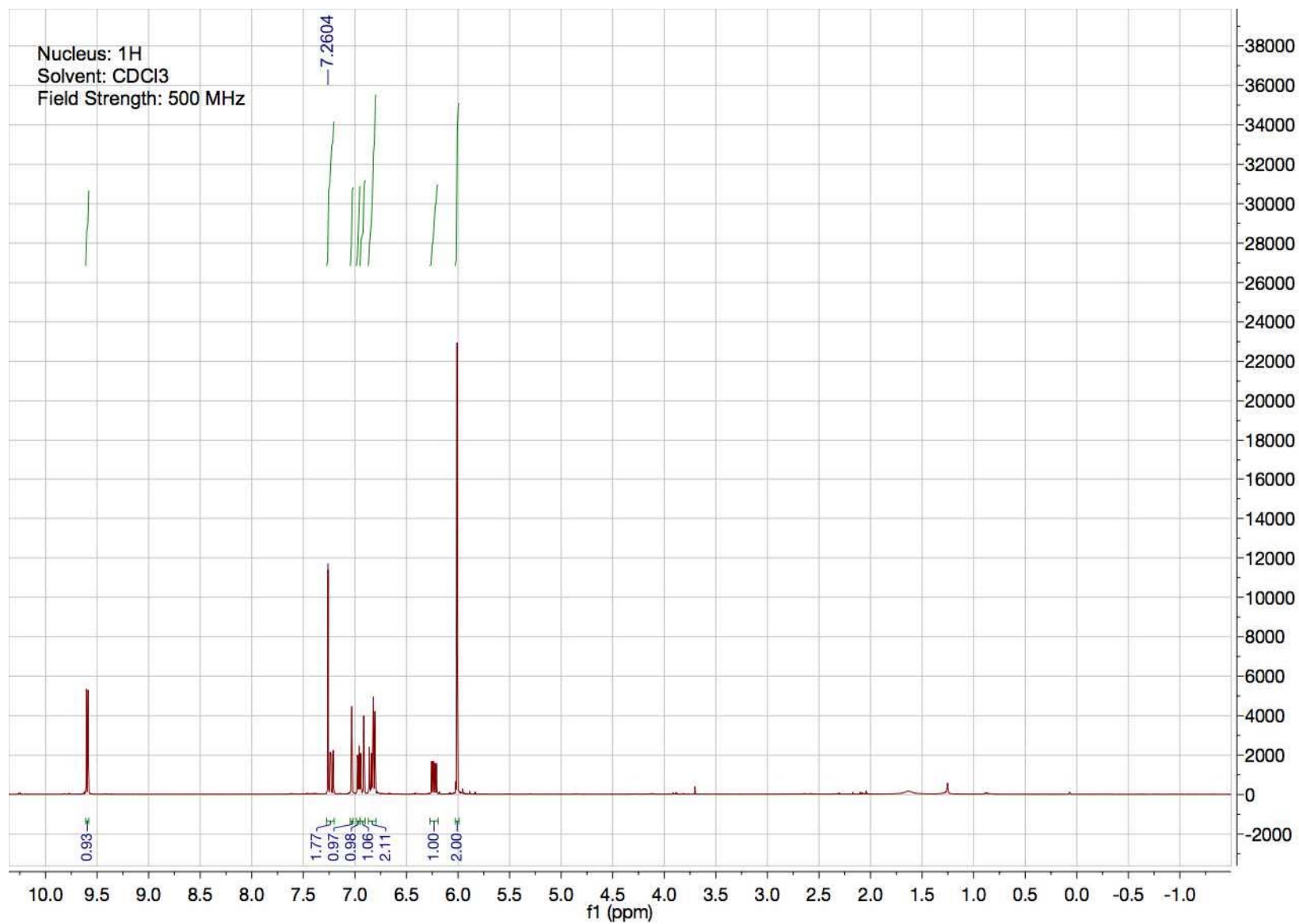


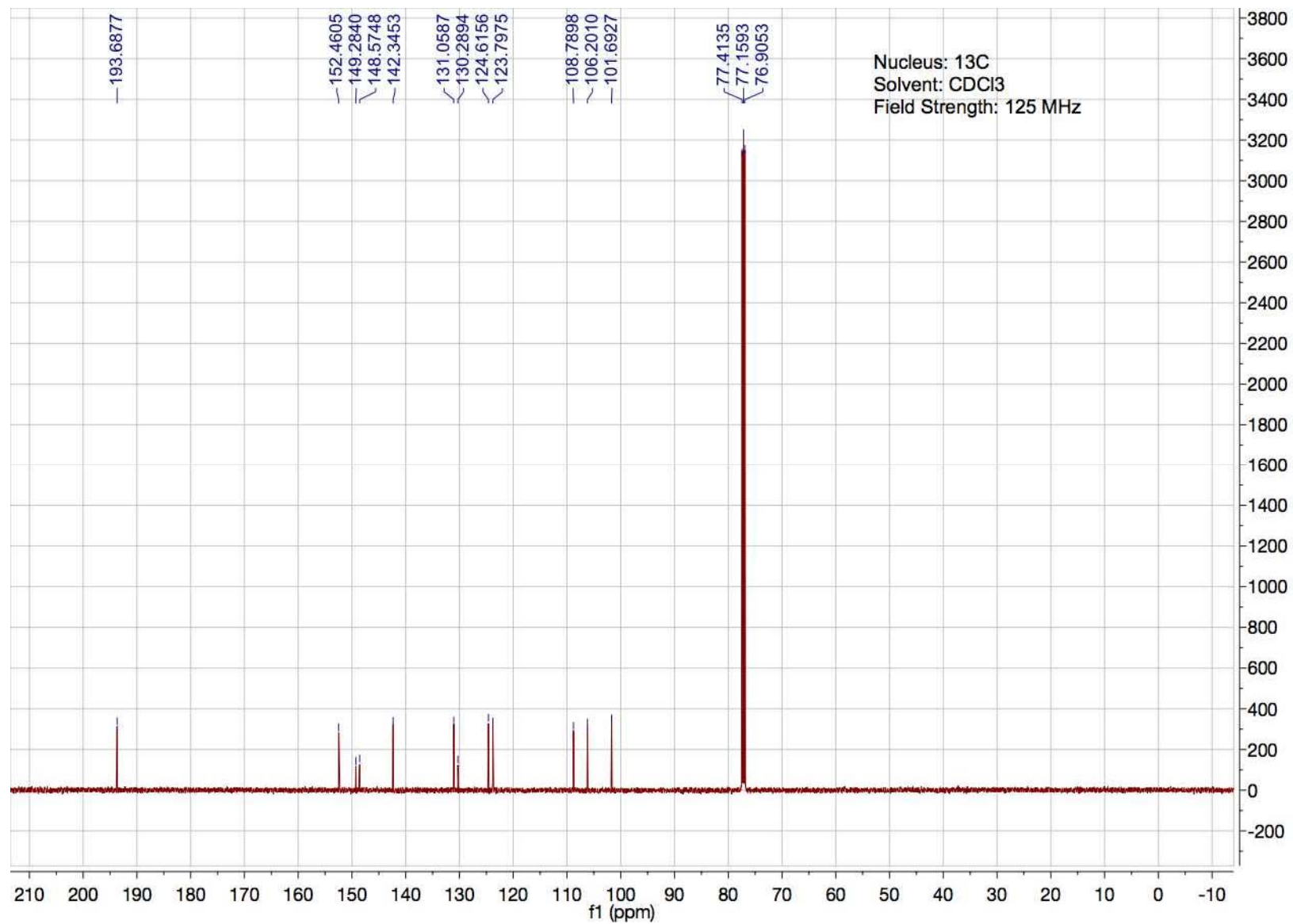
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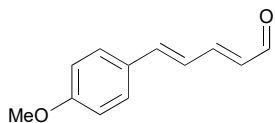
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30/06/2016



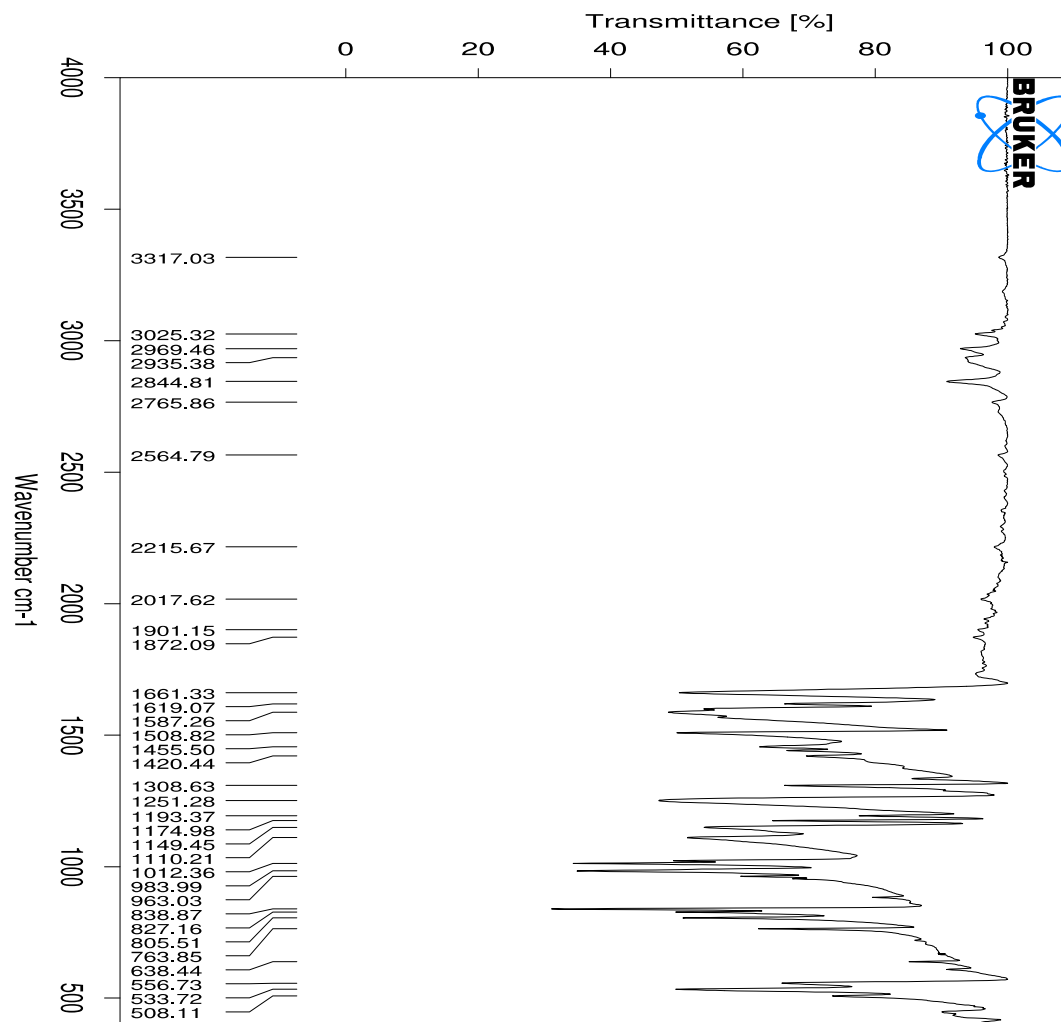


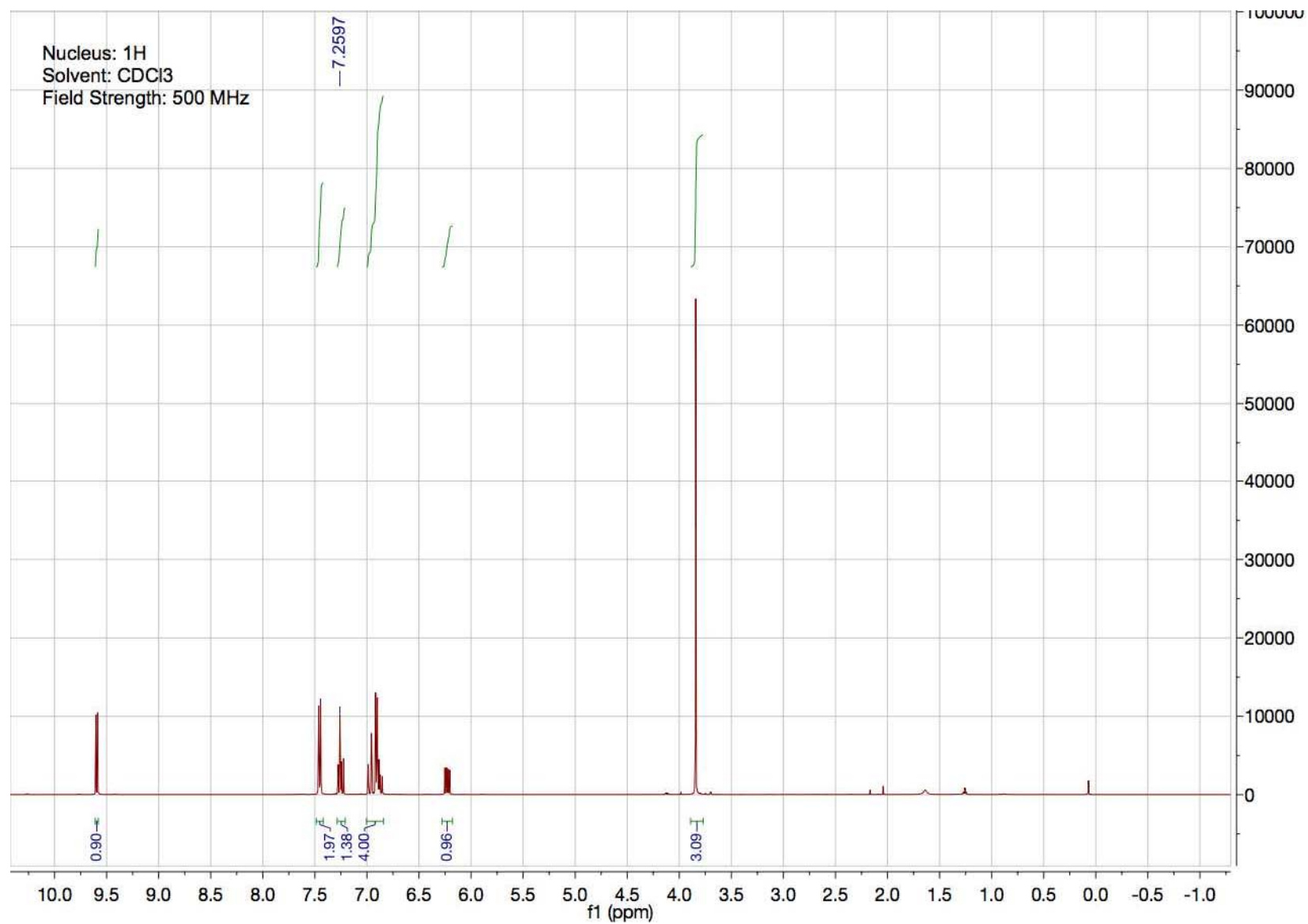
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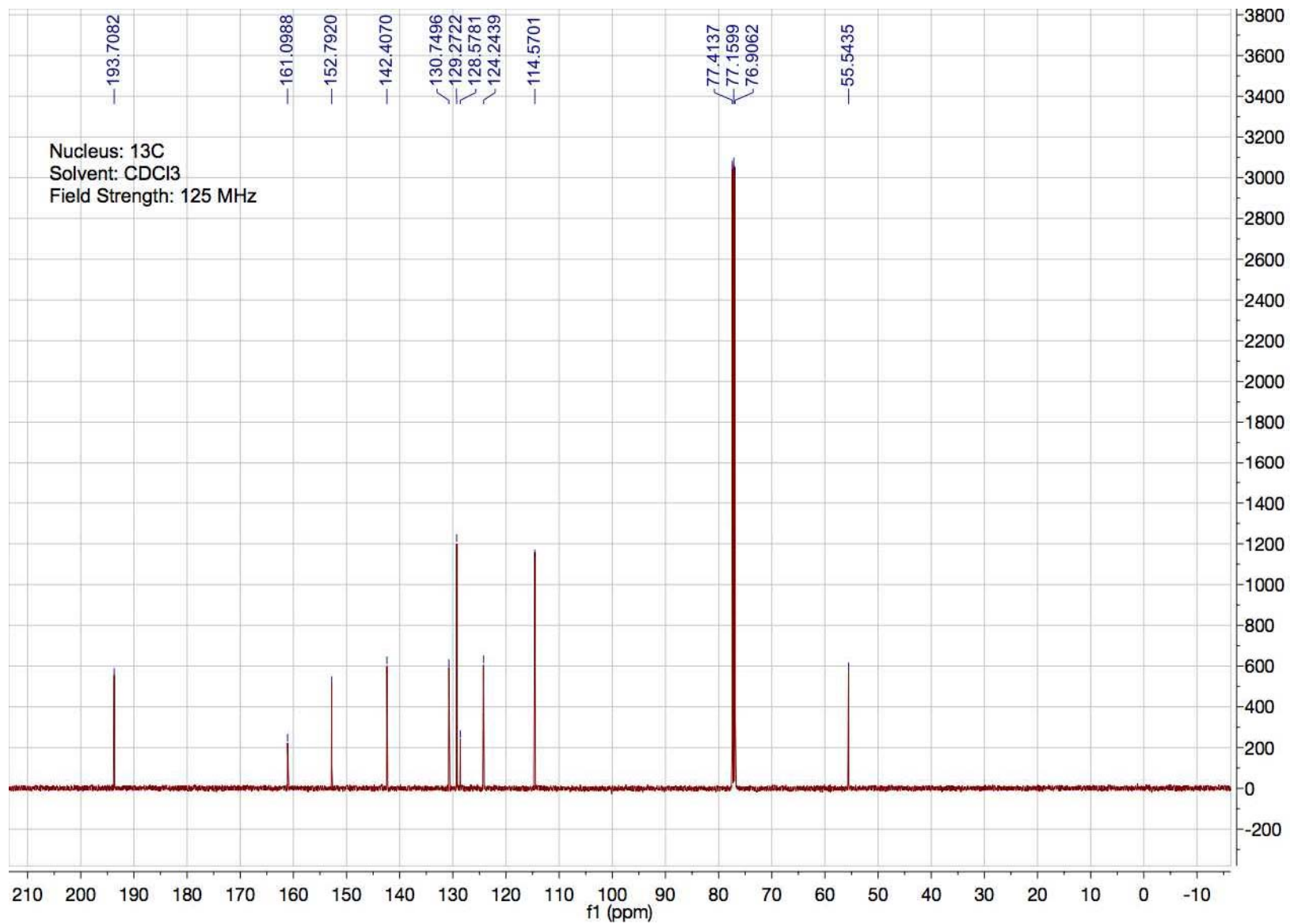


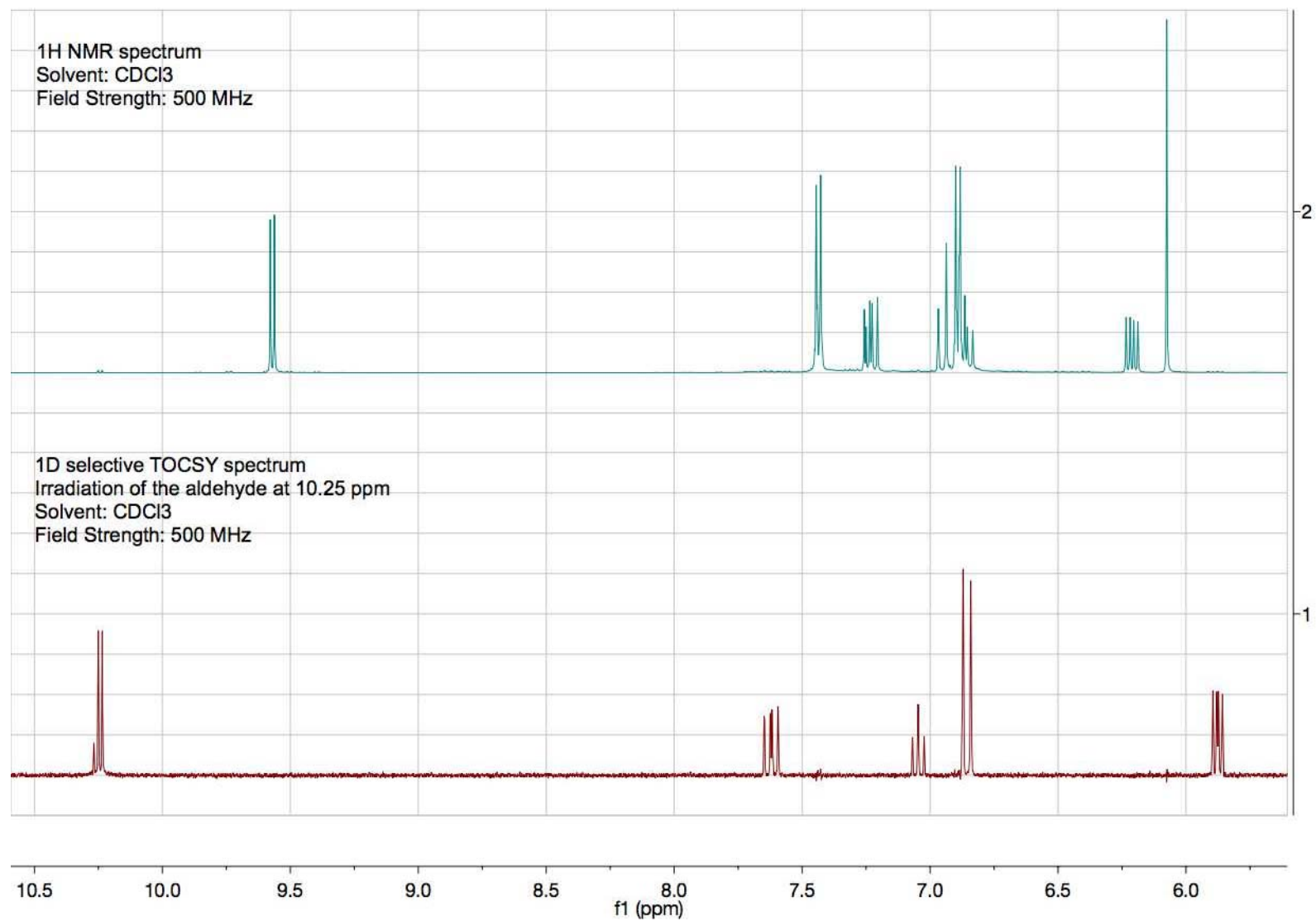
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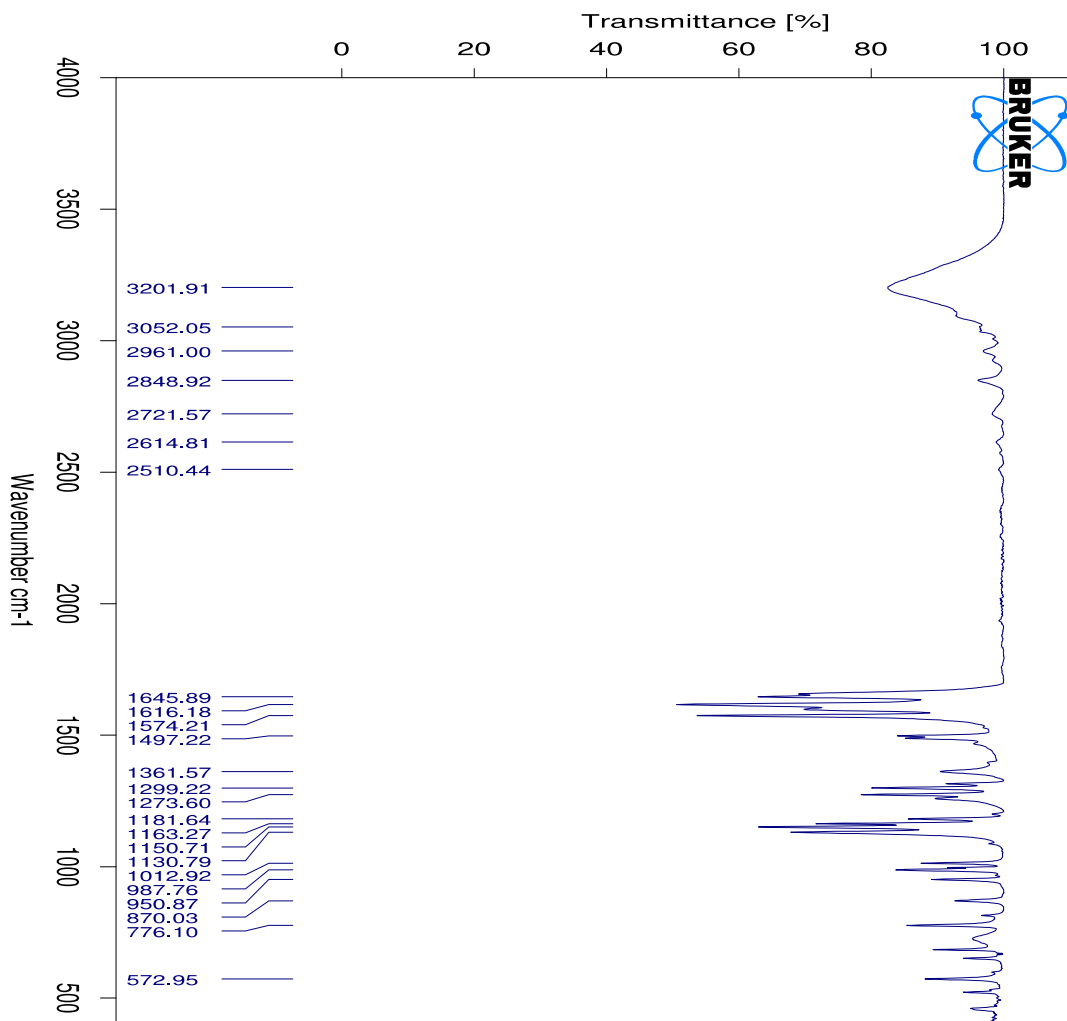
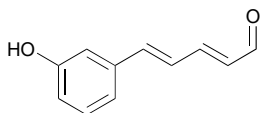






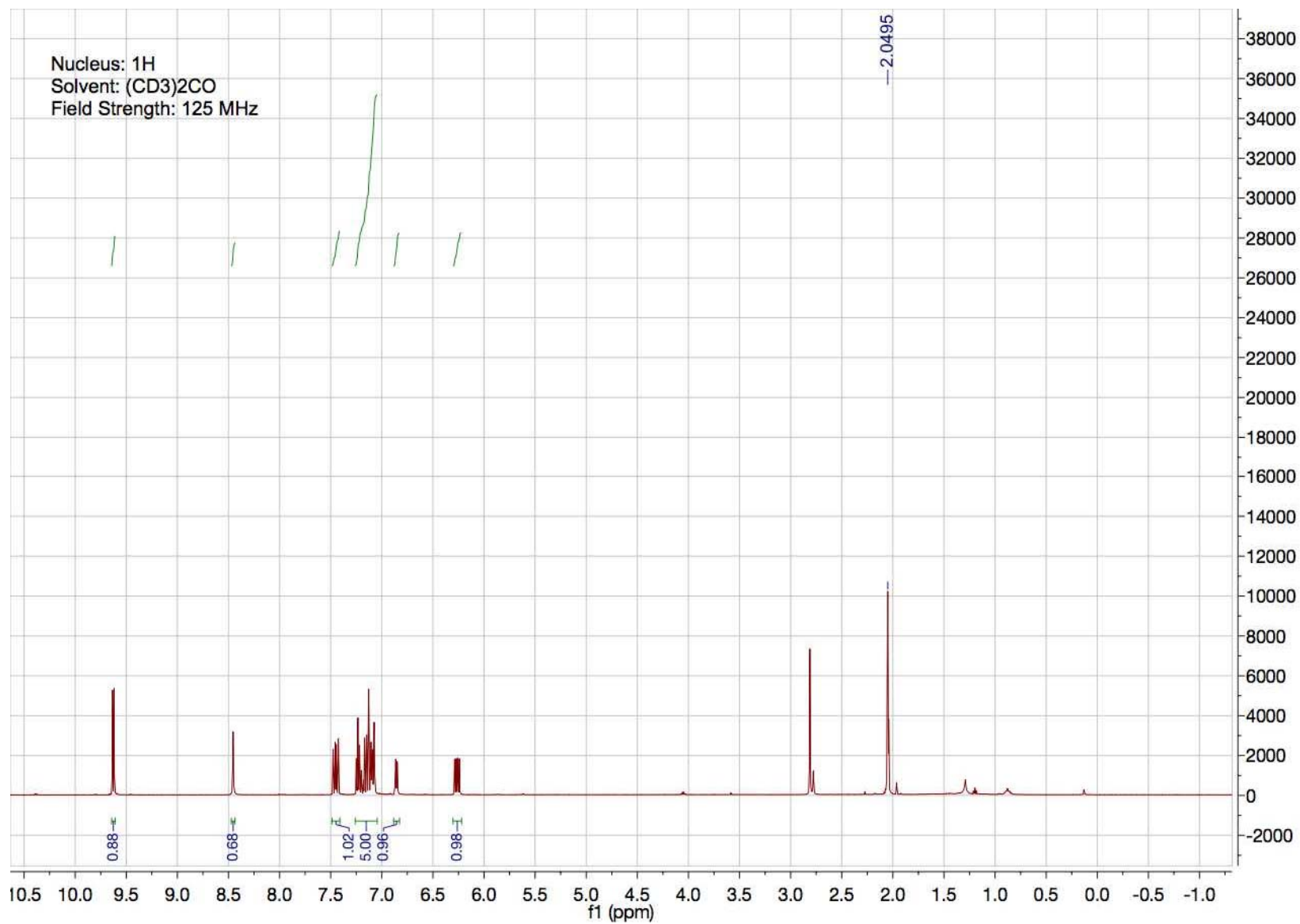


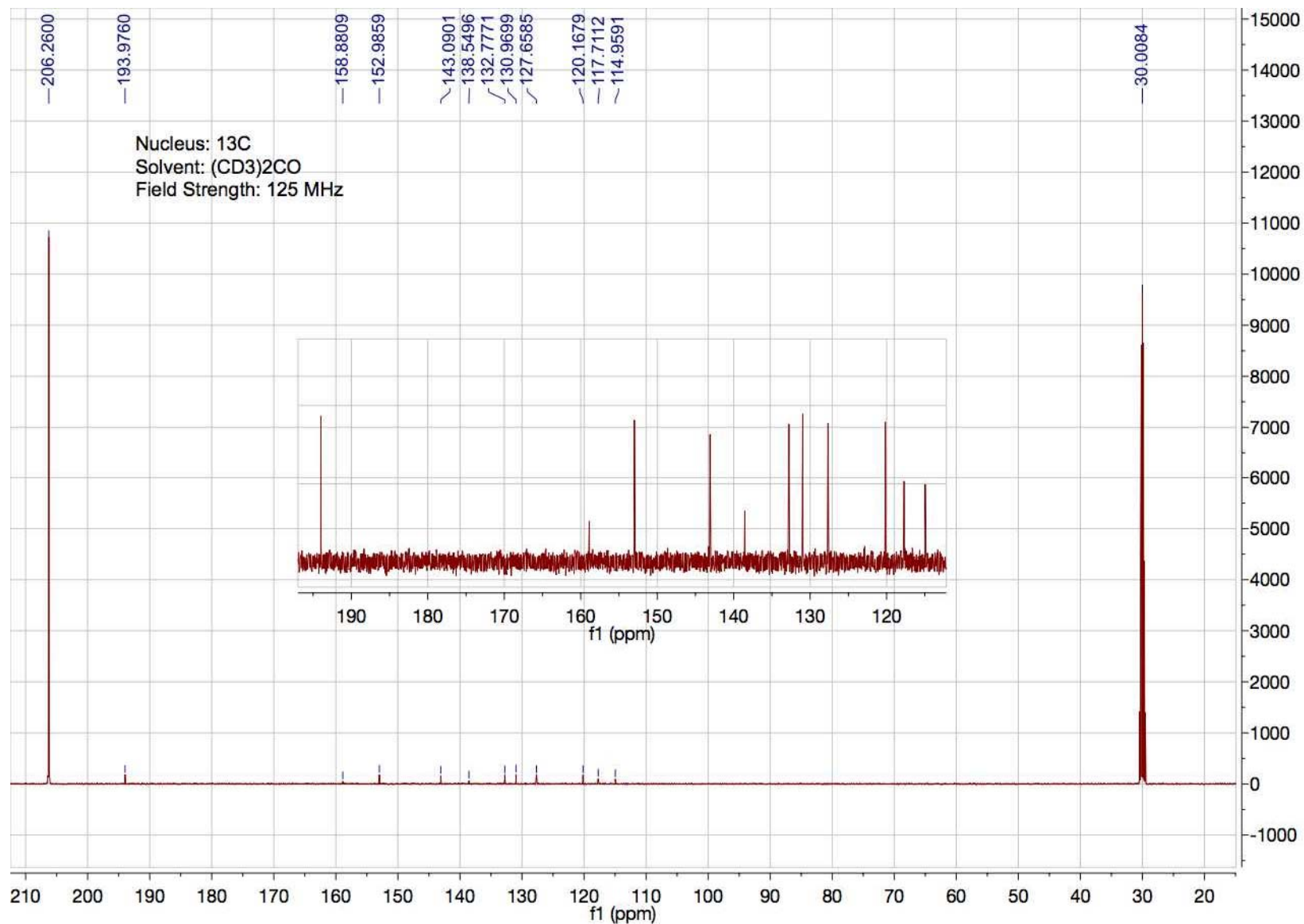
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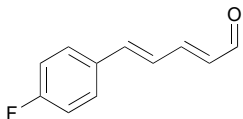
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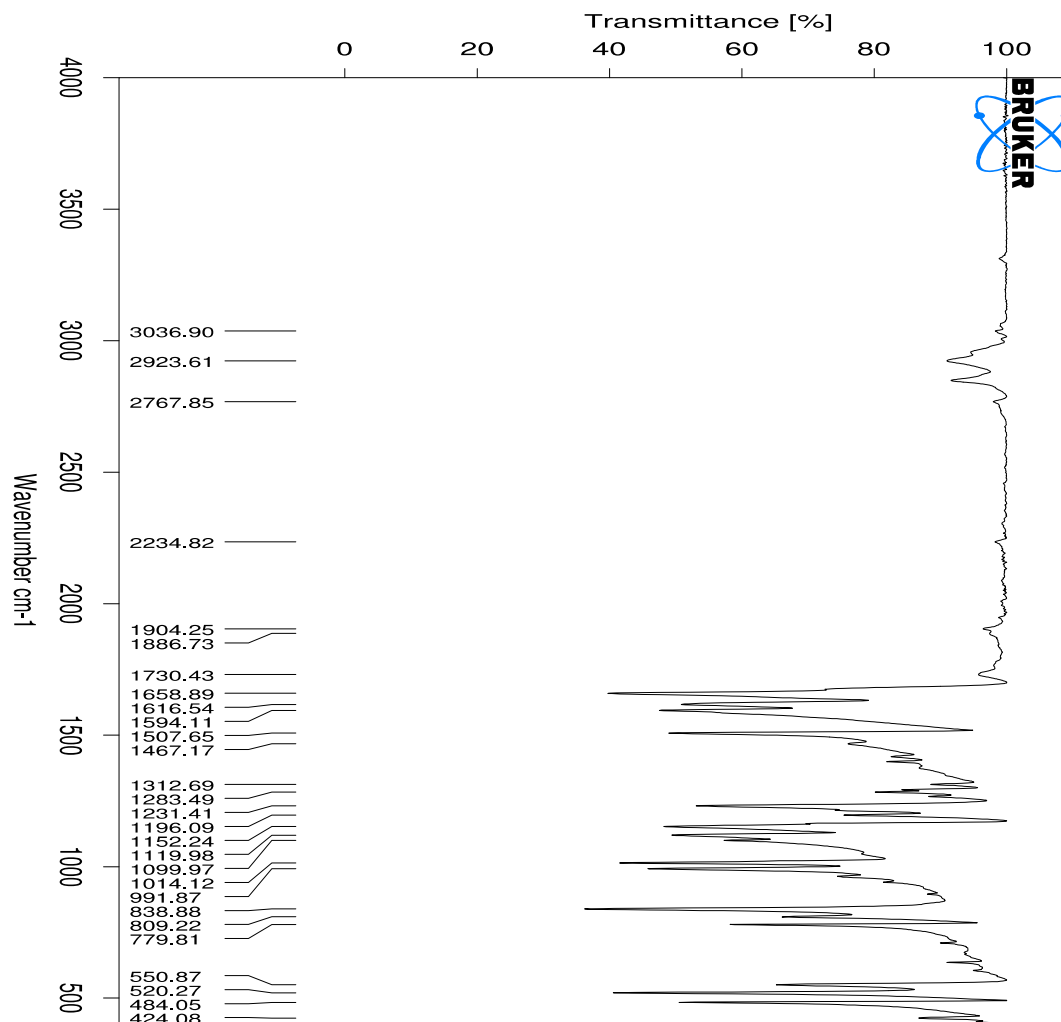


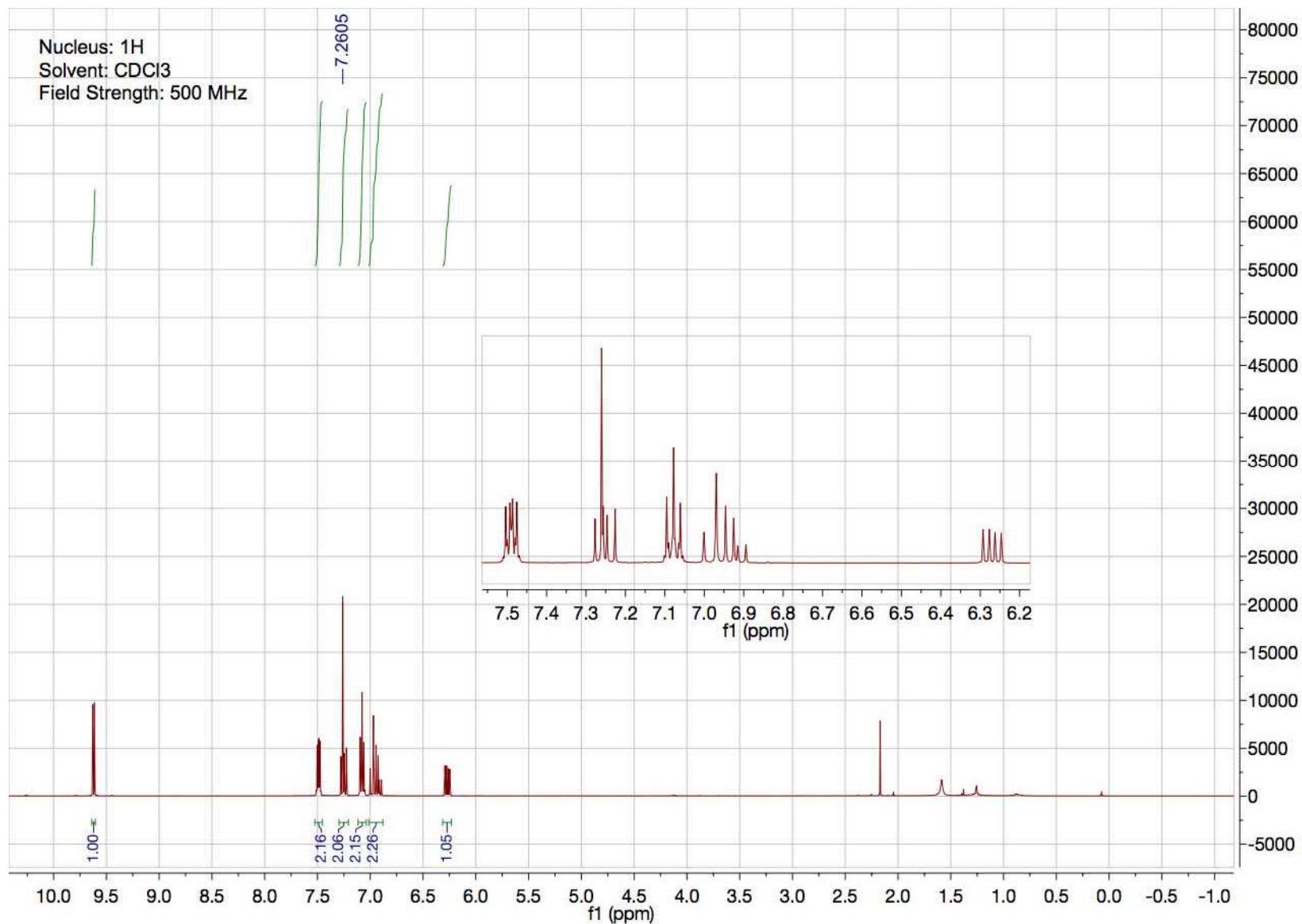
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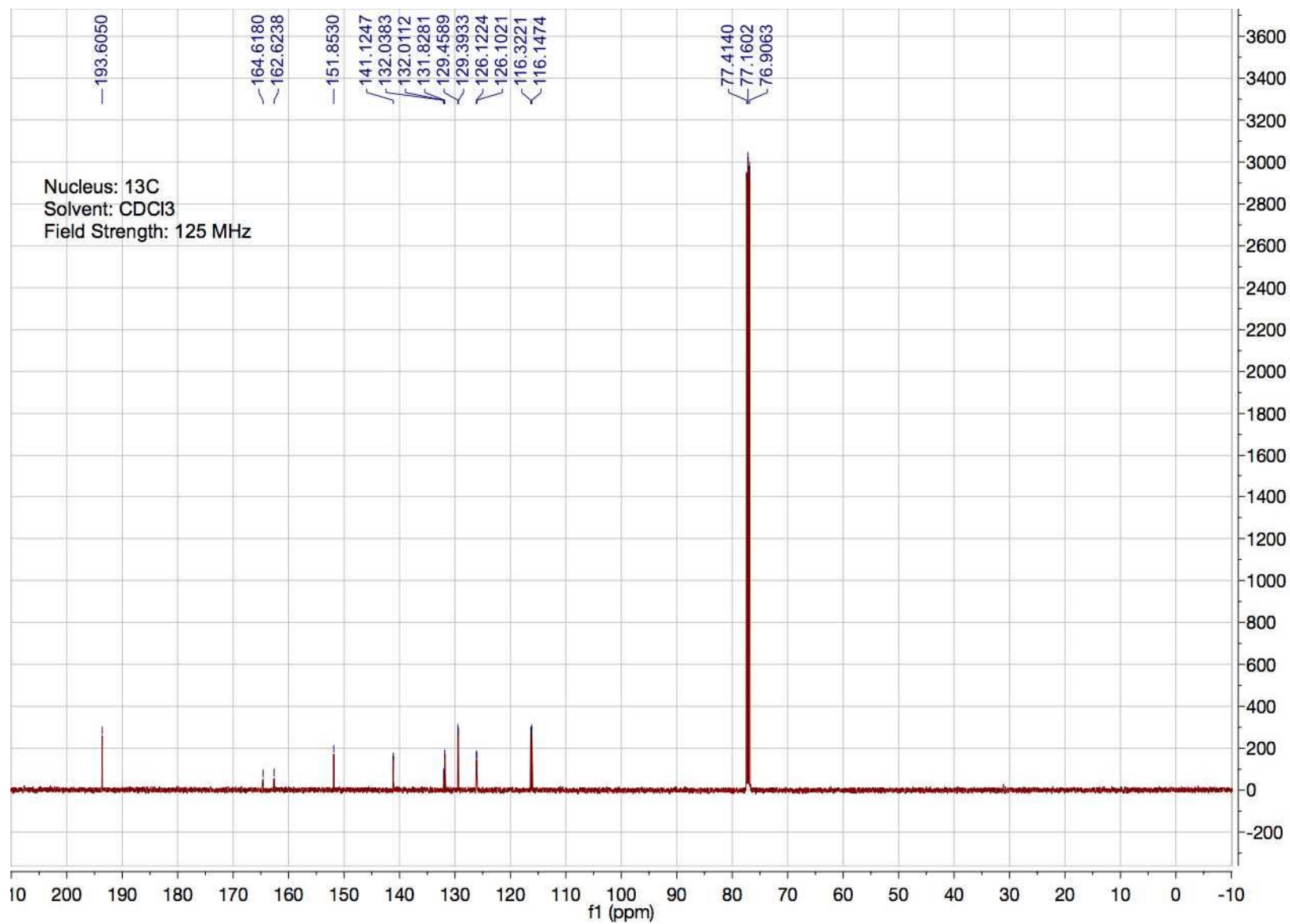


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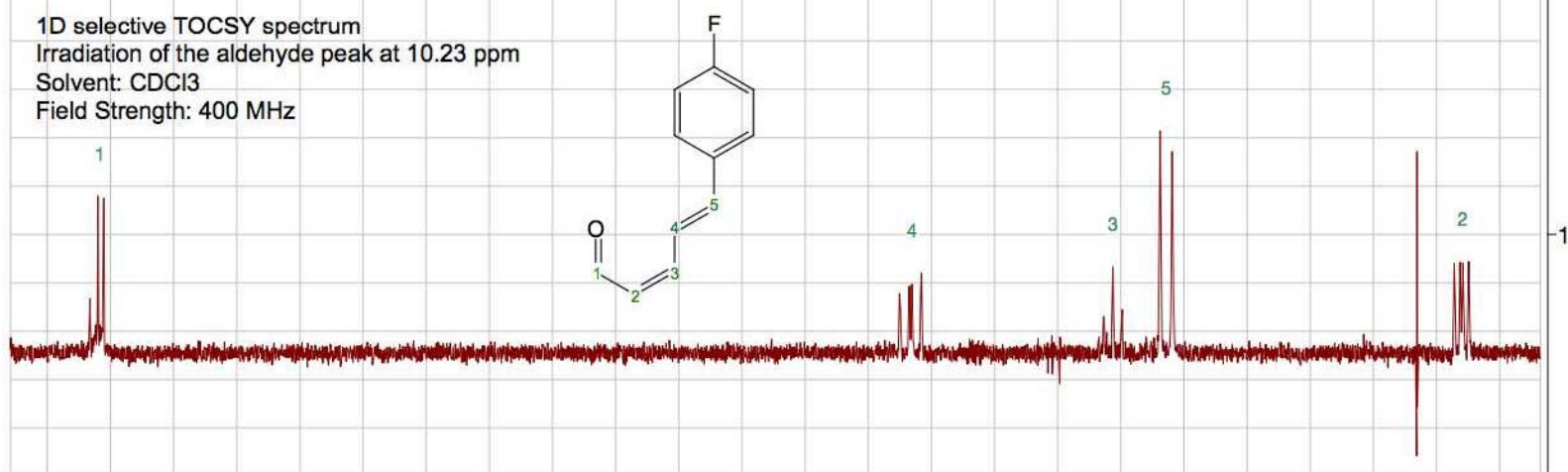




¹H NMR spectrum (major isomer)
Solvent: CDCl₃
Field Strength: 500 MHz

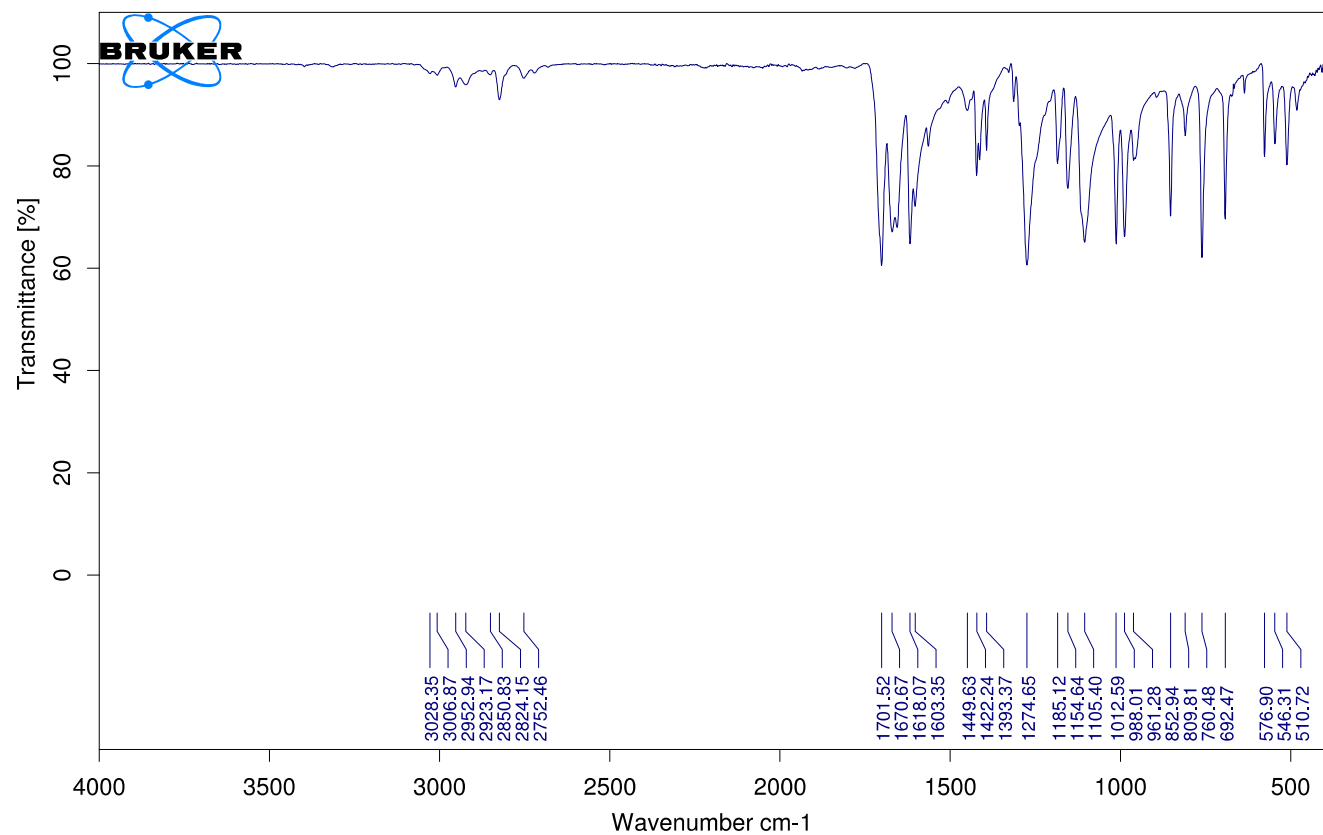
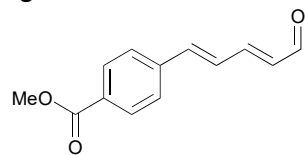


1D selective TOCSY spectrum
Irradiation of the aldehyde peak at 10.23 ppm
Solvent: CDCl₃
Field Strength: 400 MHz



10.4 10.2 10.0 9.8 9.6 9.4 9.2 9.0 8.8 8.6 8.4 8.2 8.0 7.8 7.6 7.4 7.2 7.0 6.8 6.6 6.4 6.2 6.0 5.8
f1 (ppm)

4g

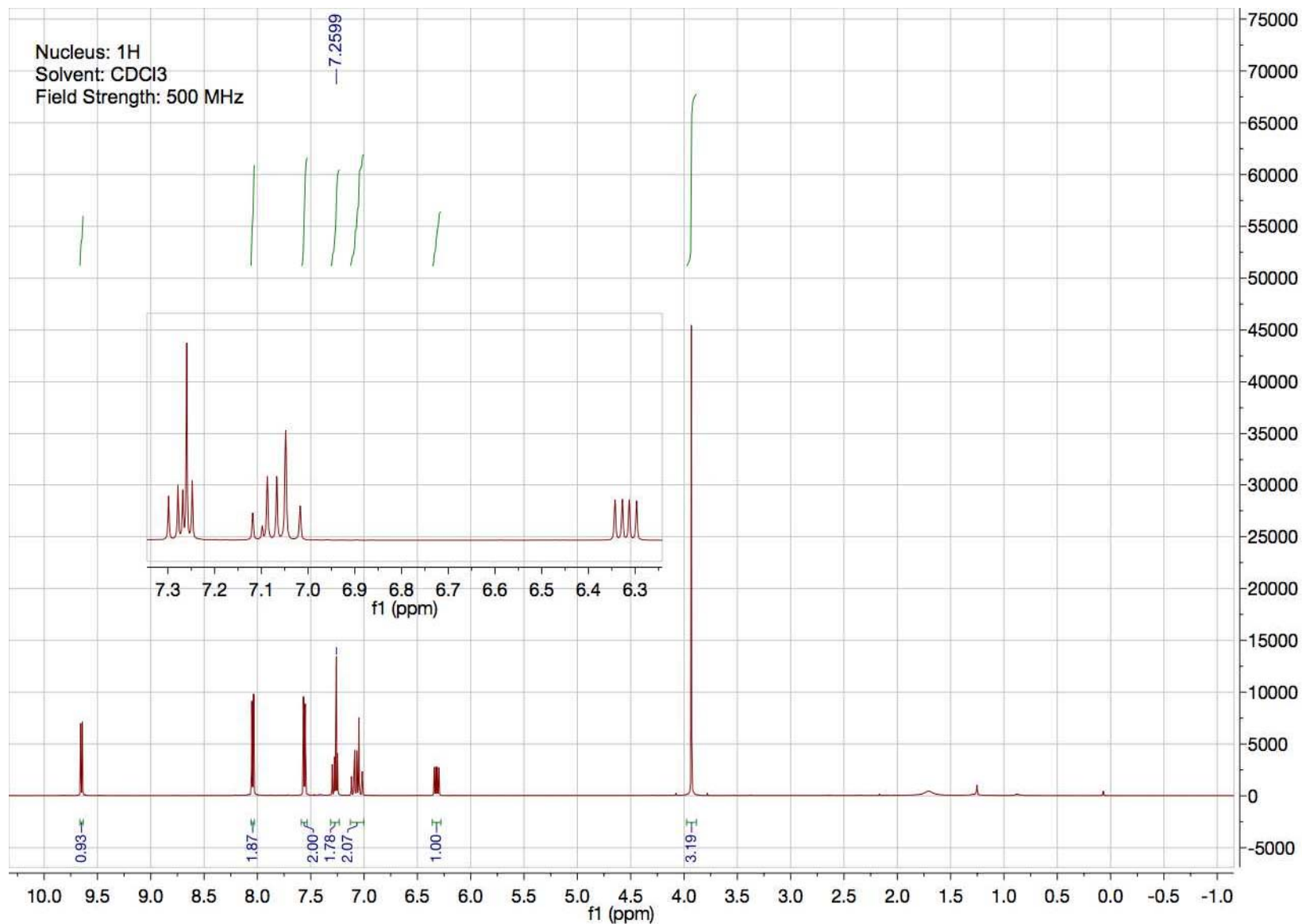


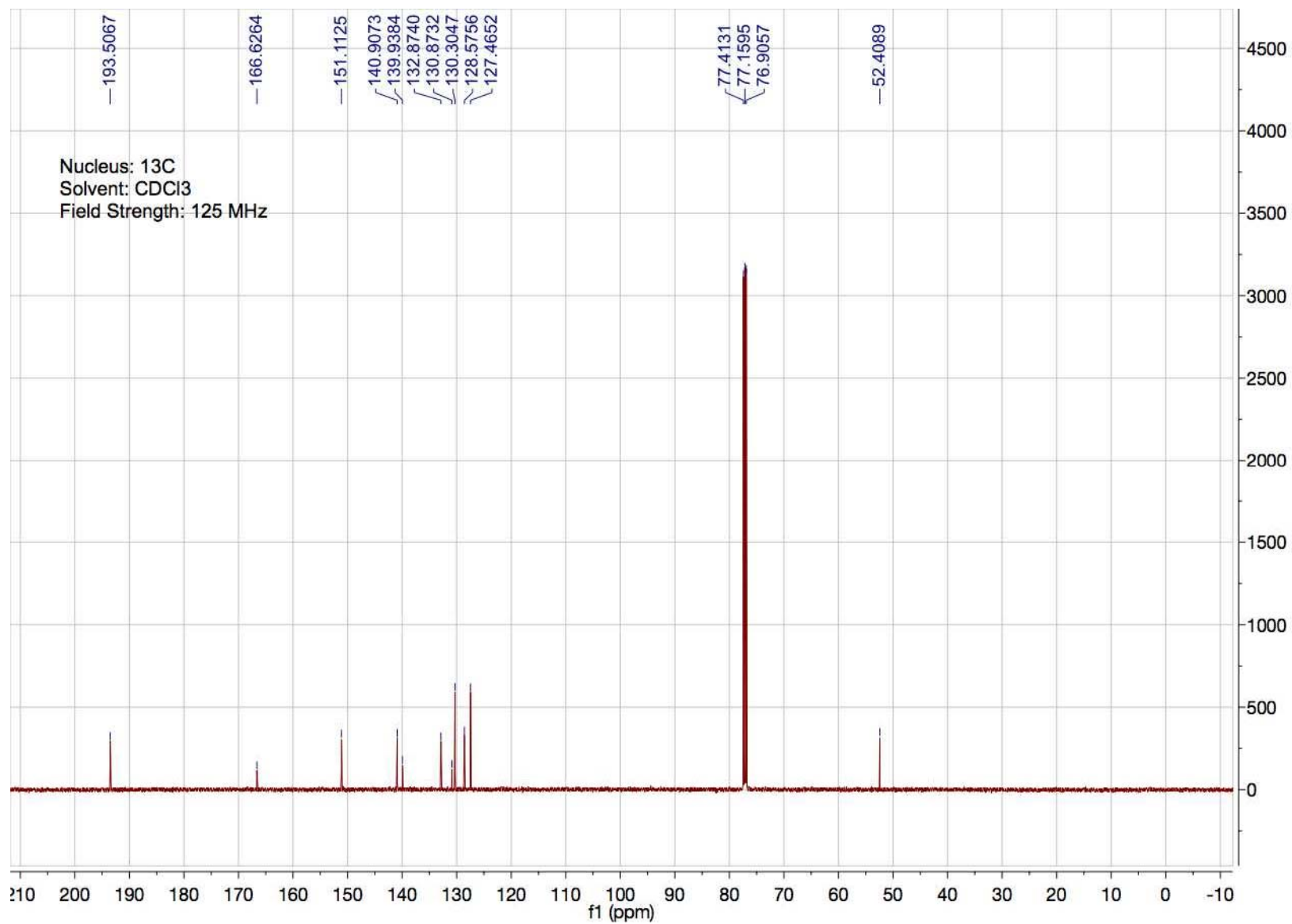
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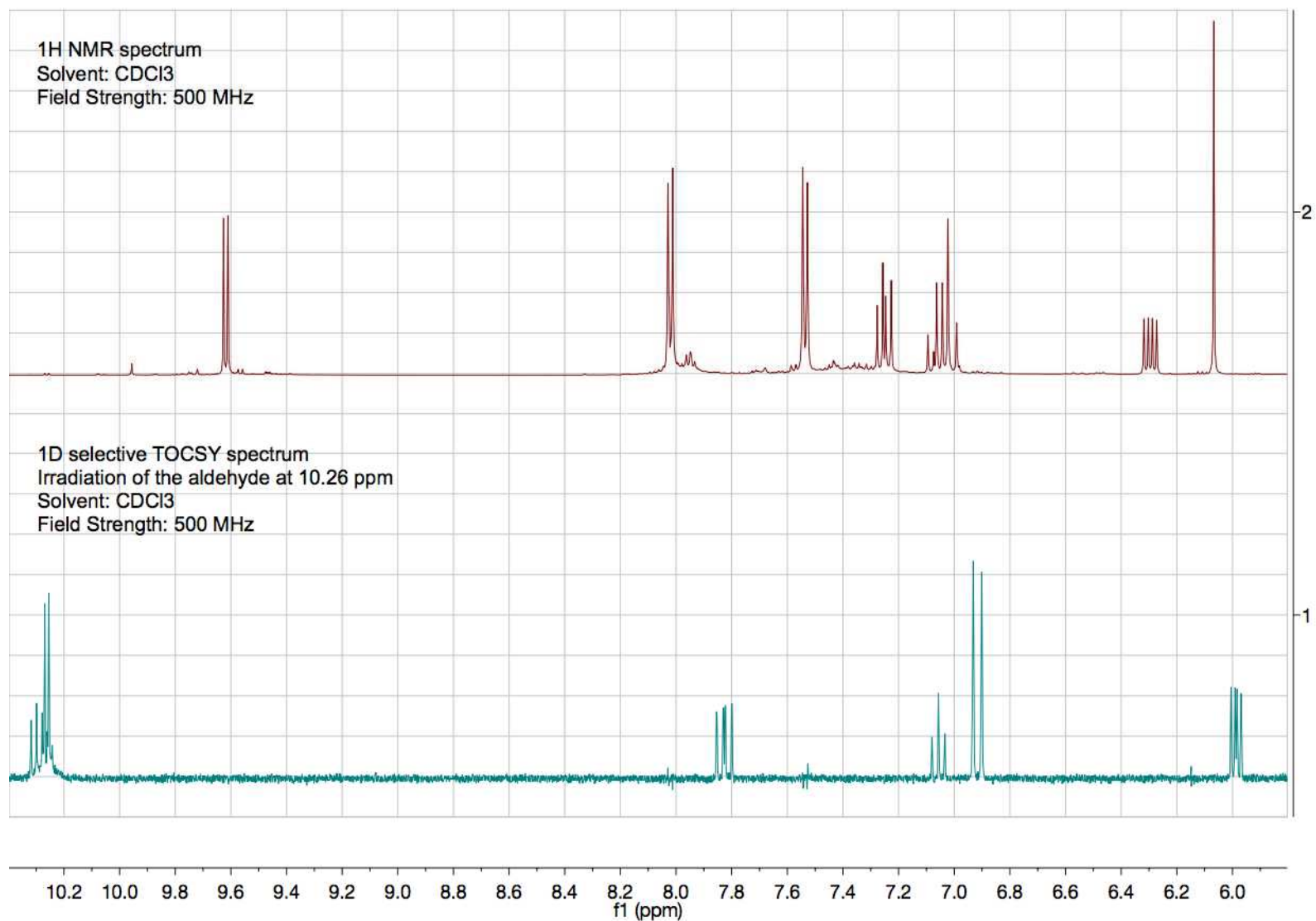
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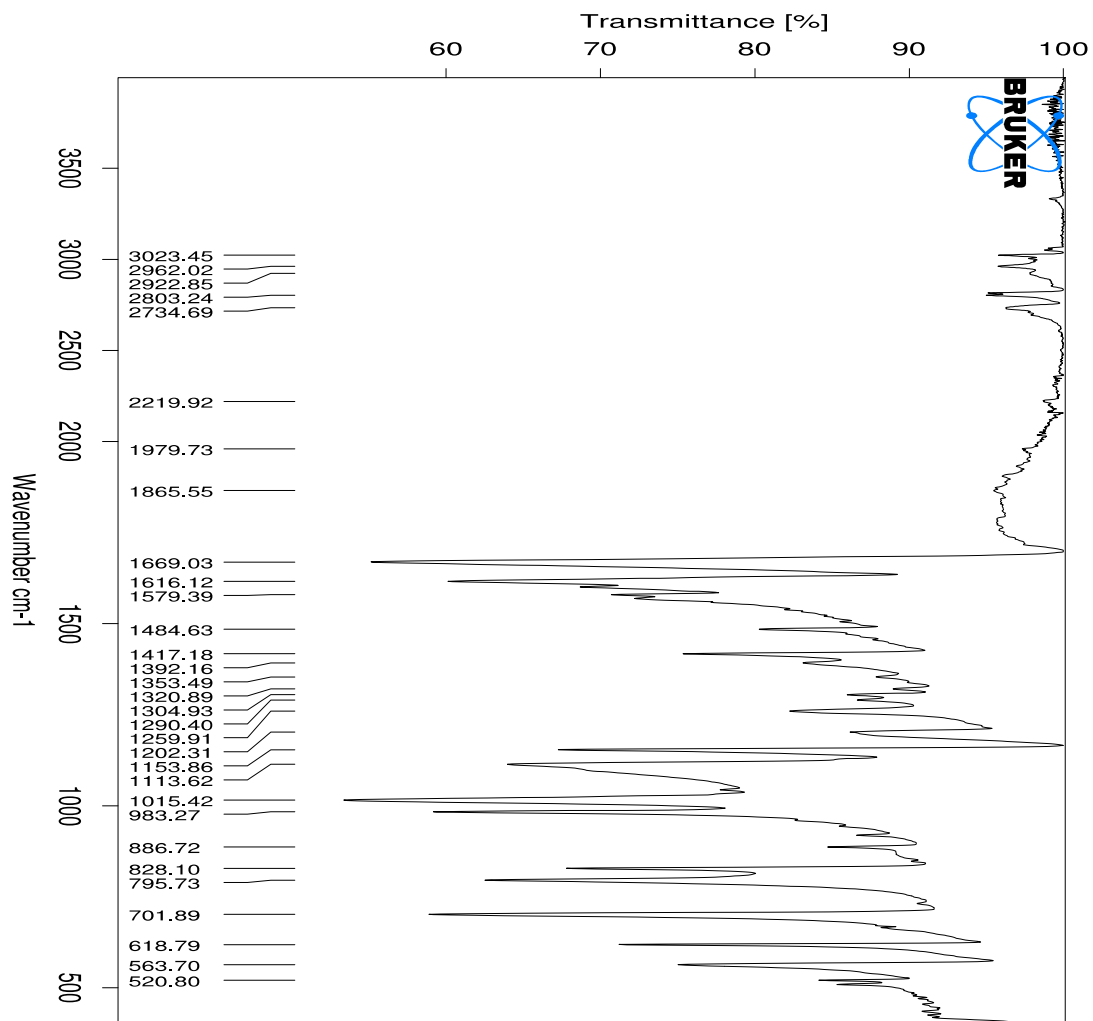
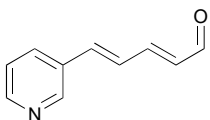
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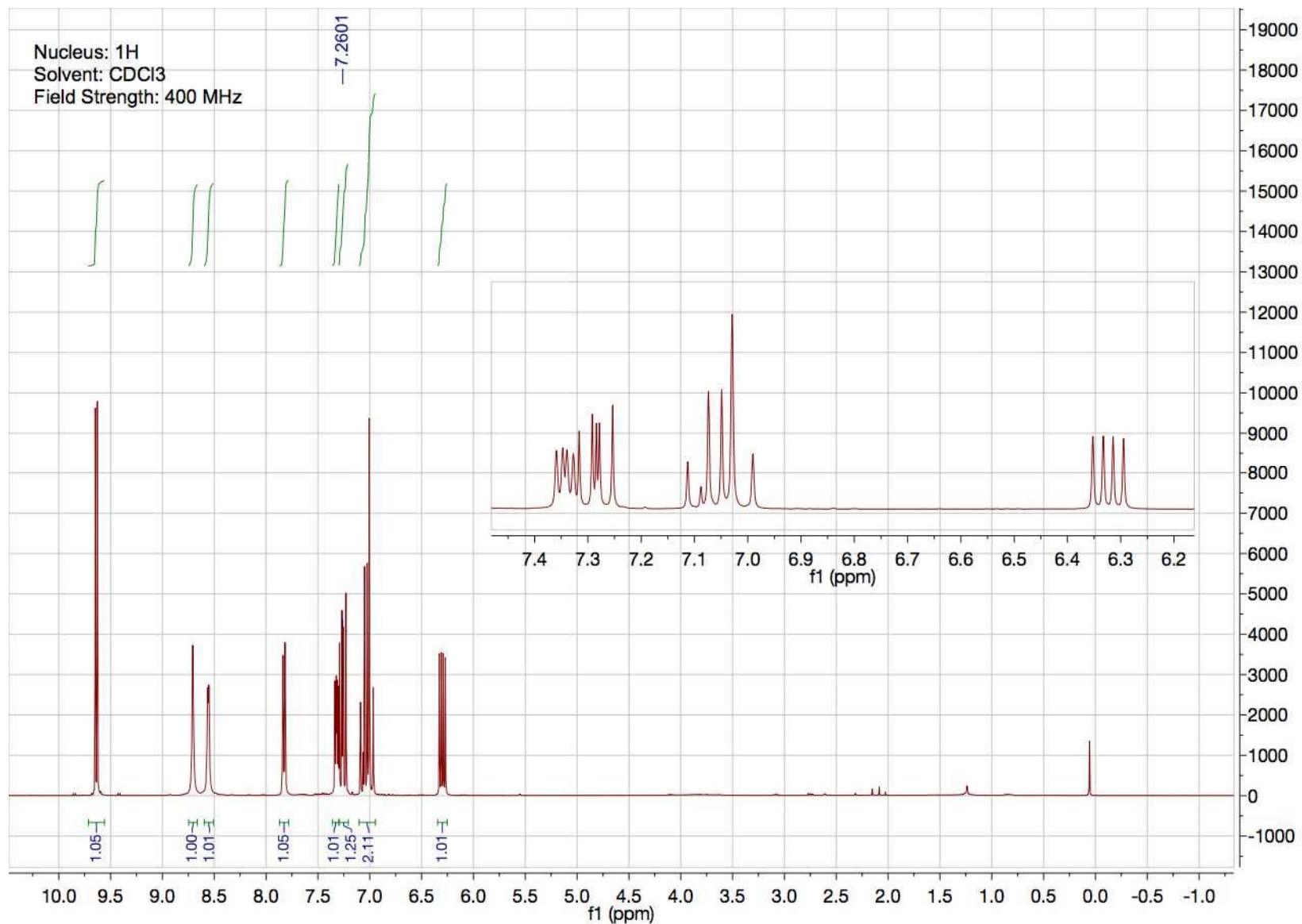


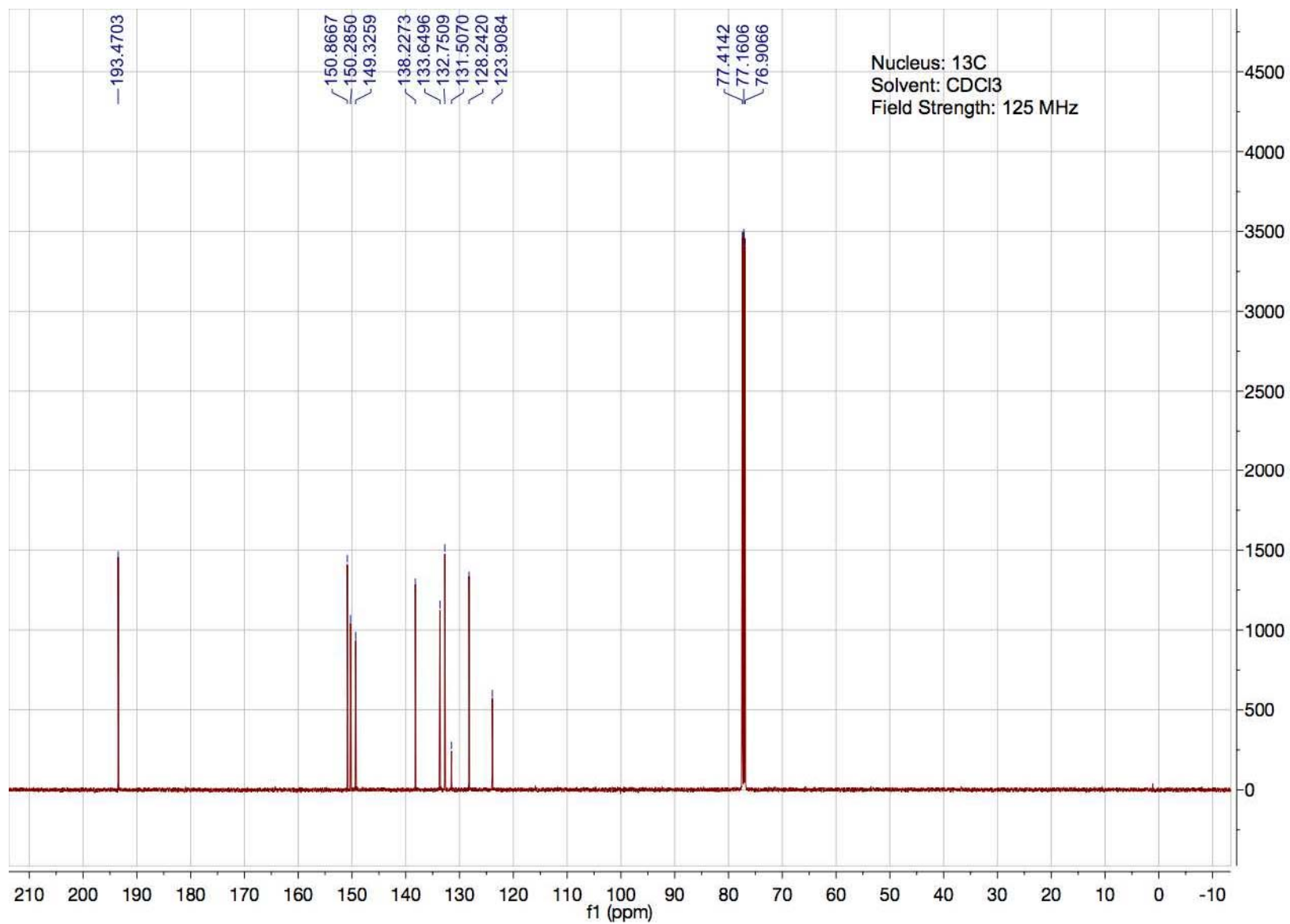
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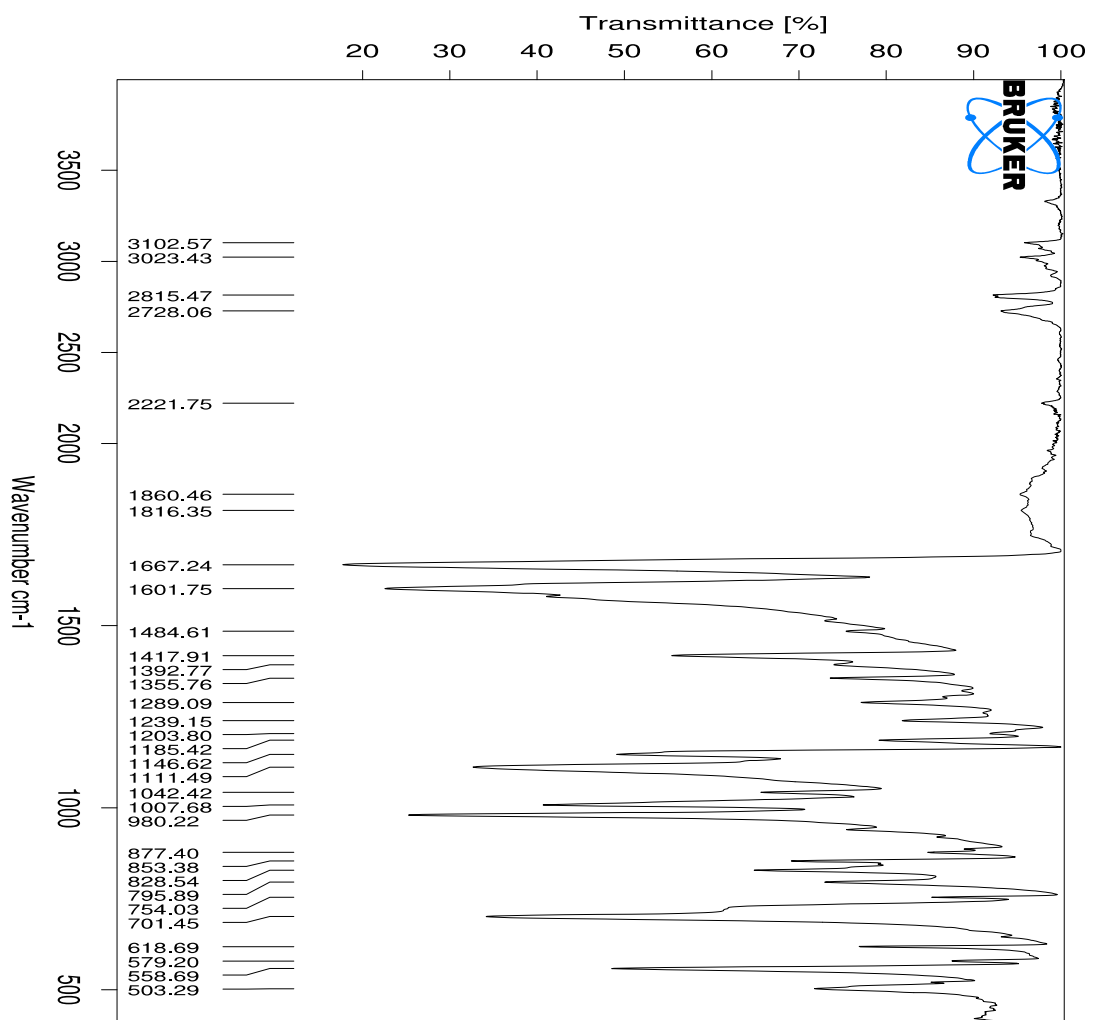
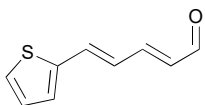
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30/06/2016



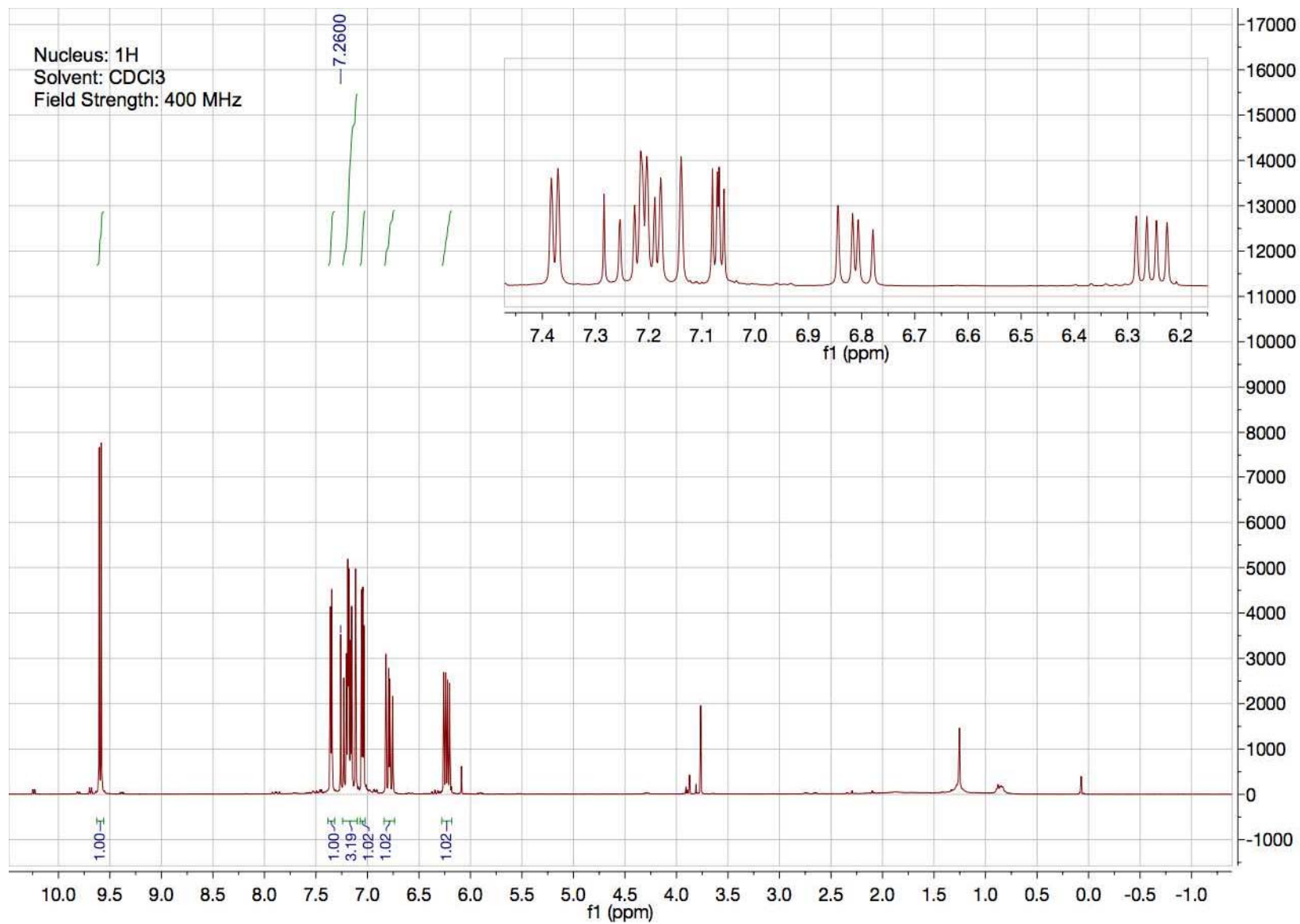


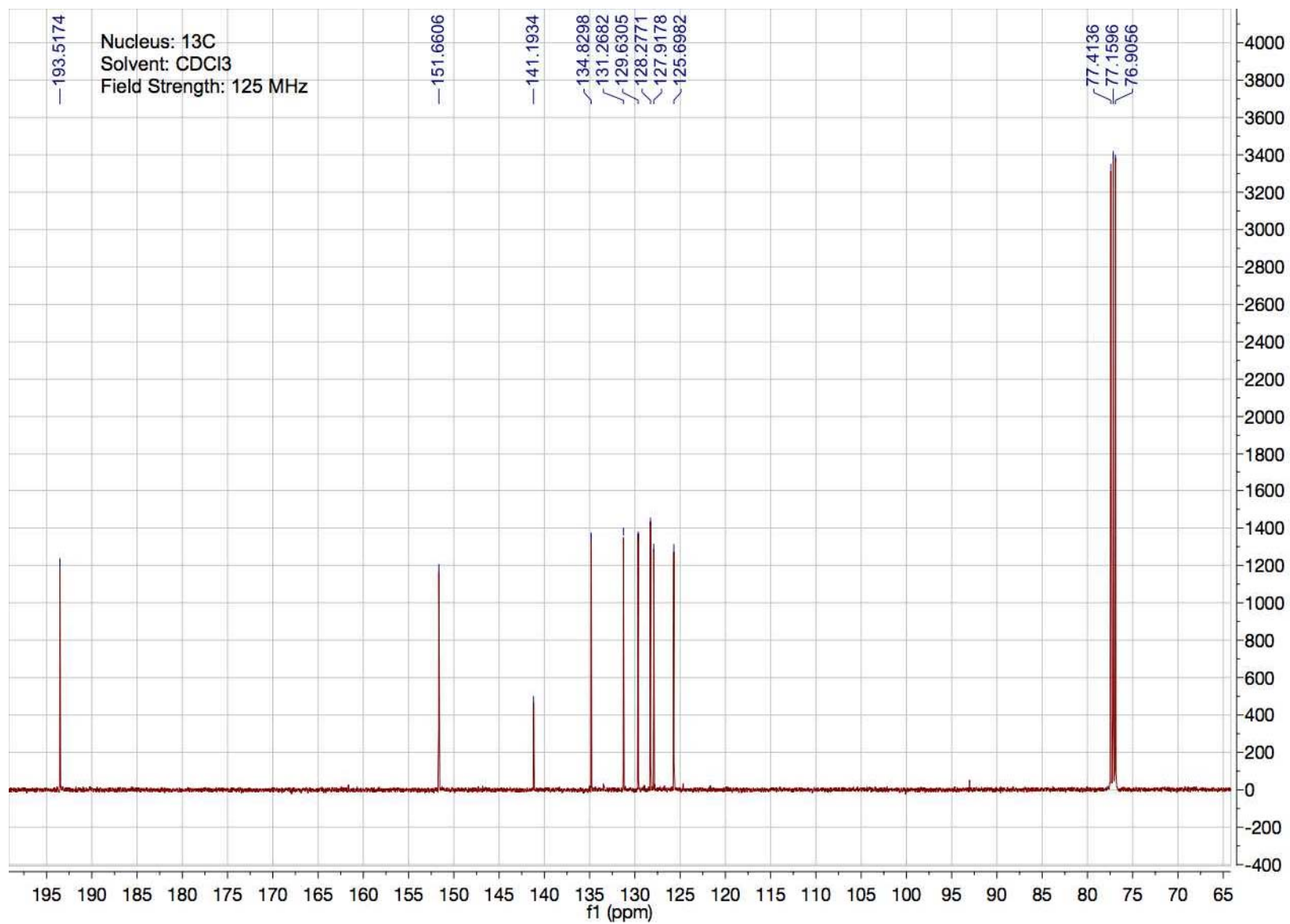
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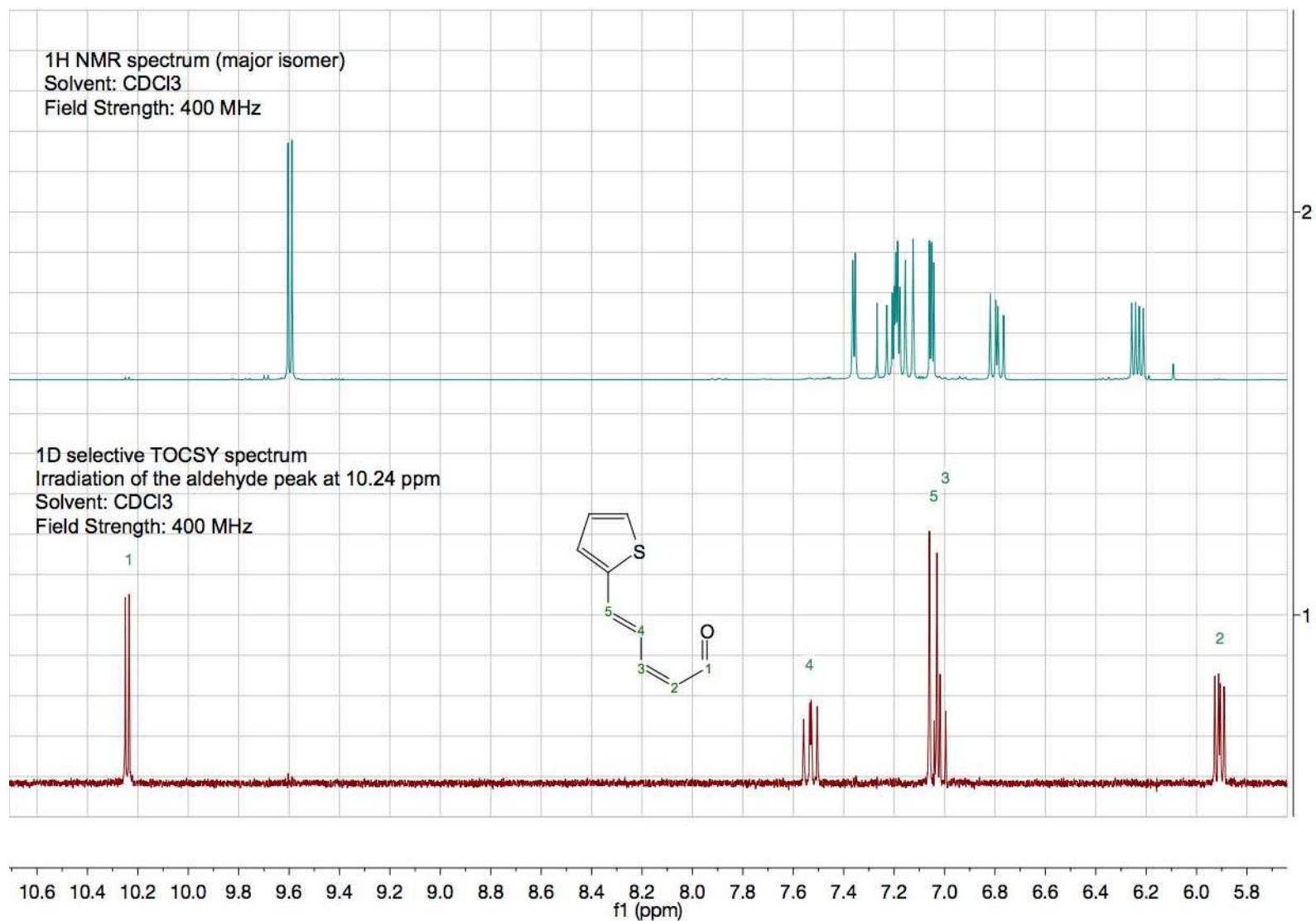


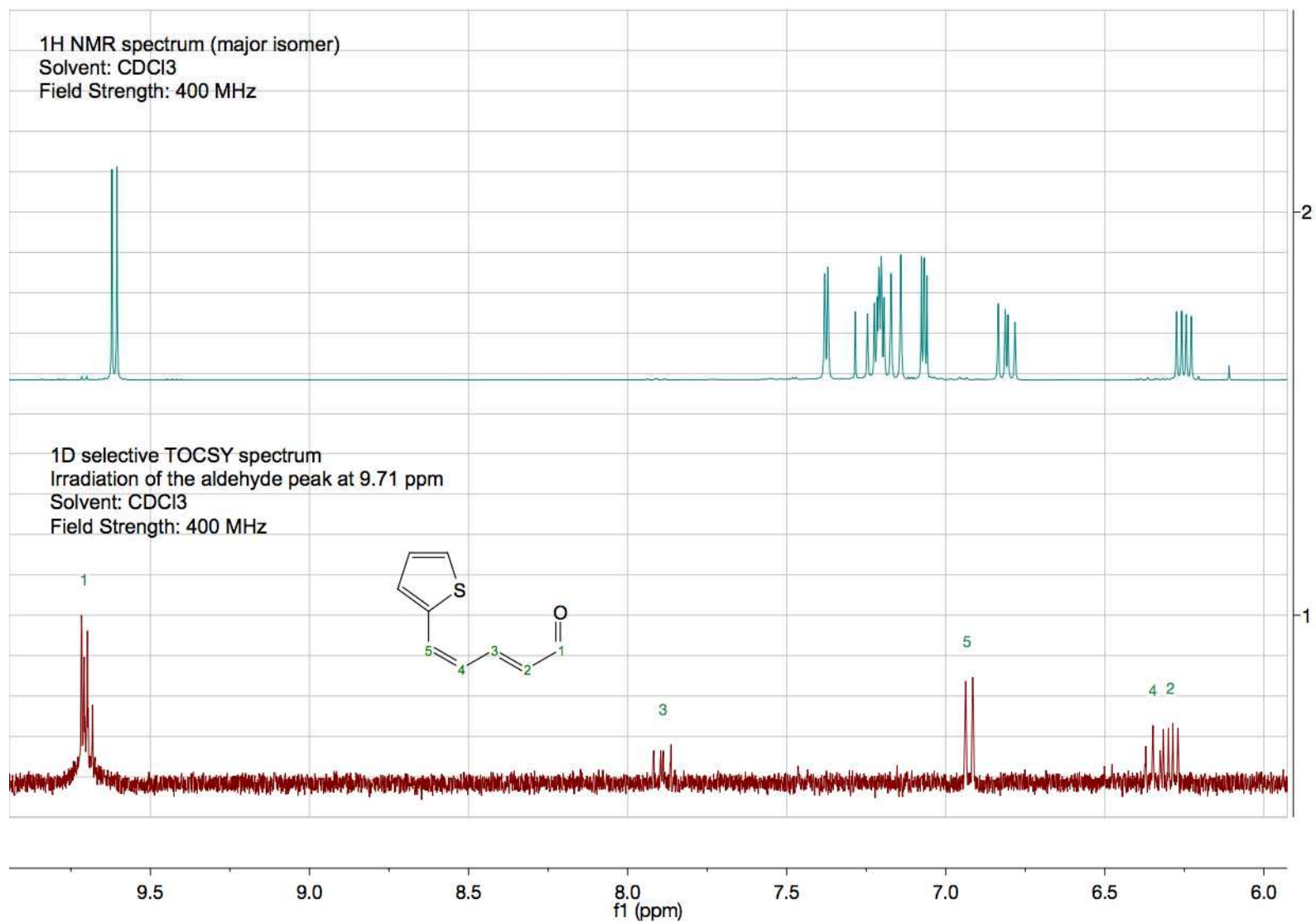
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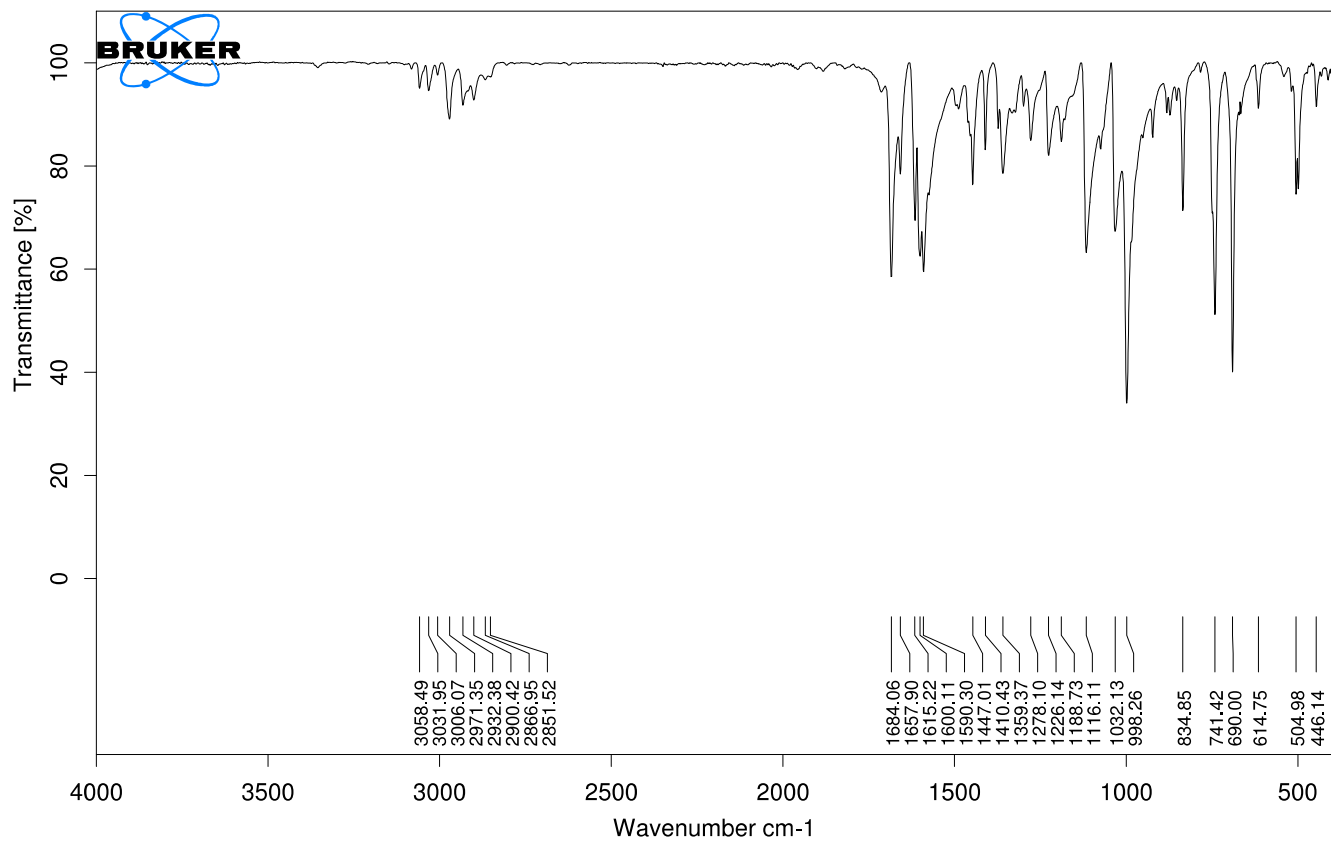
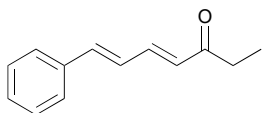








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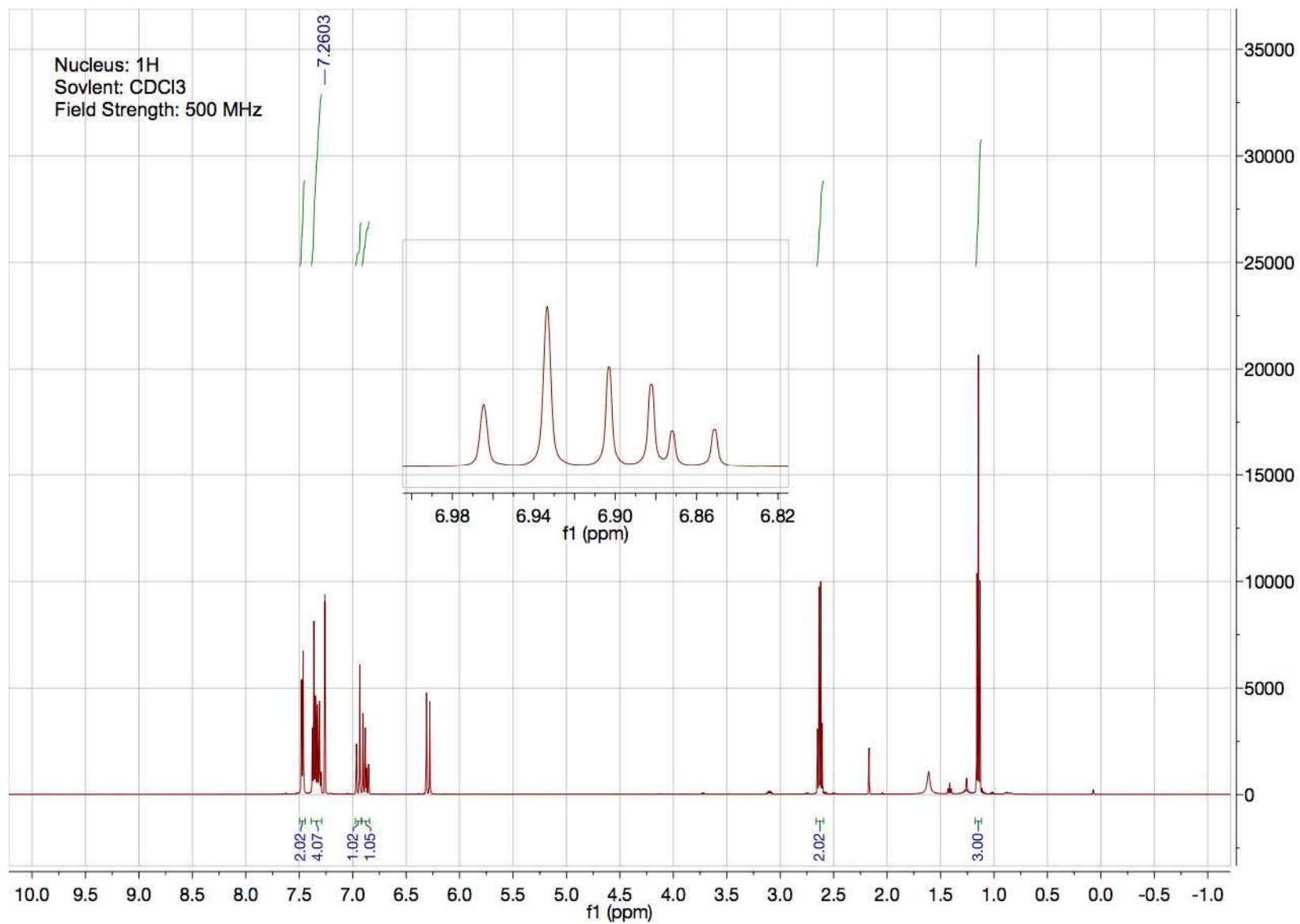


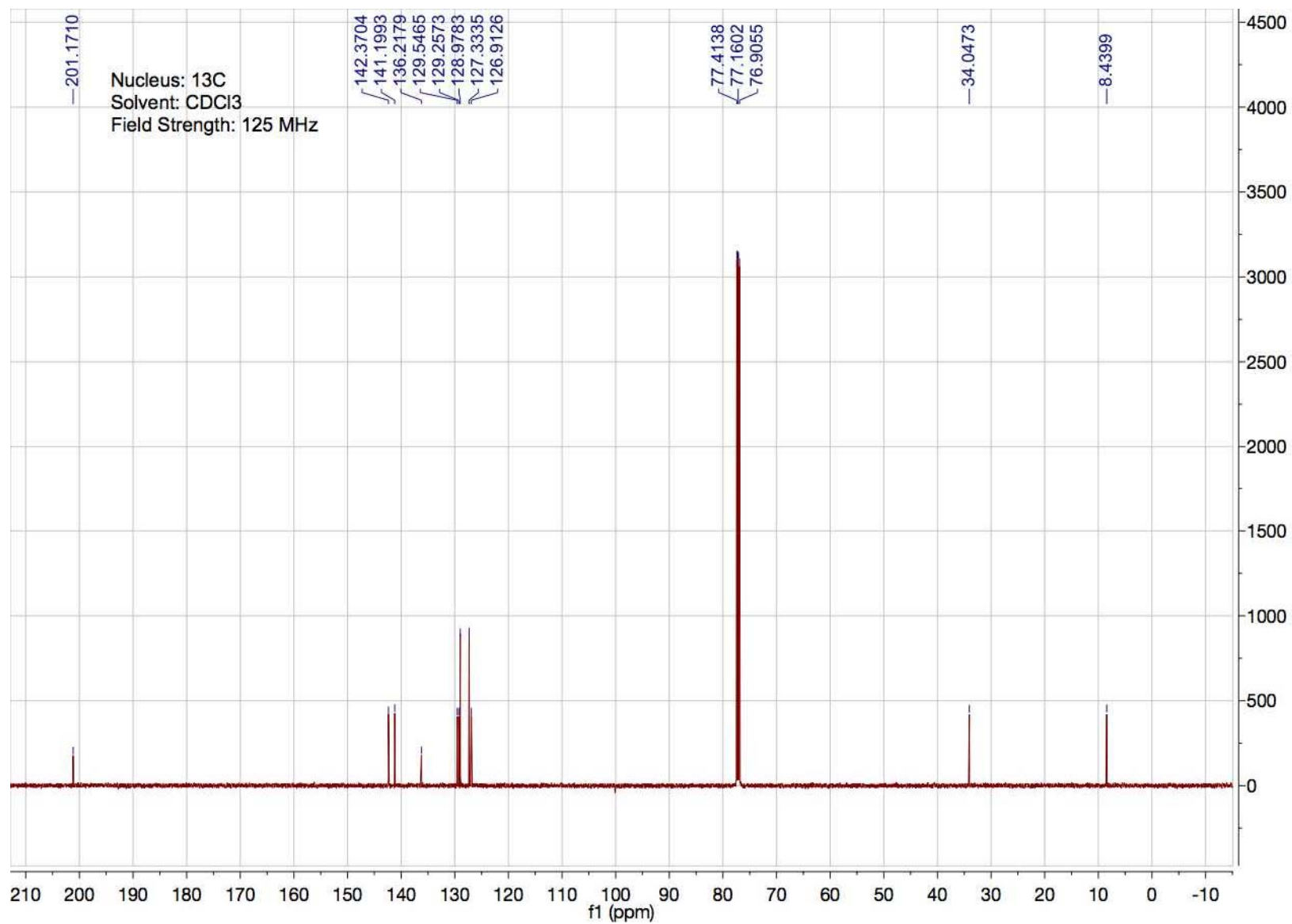
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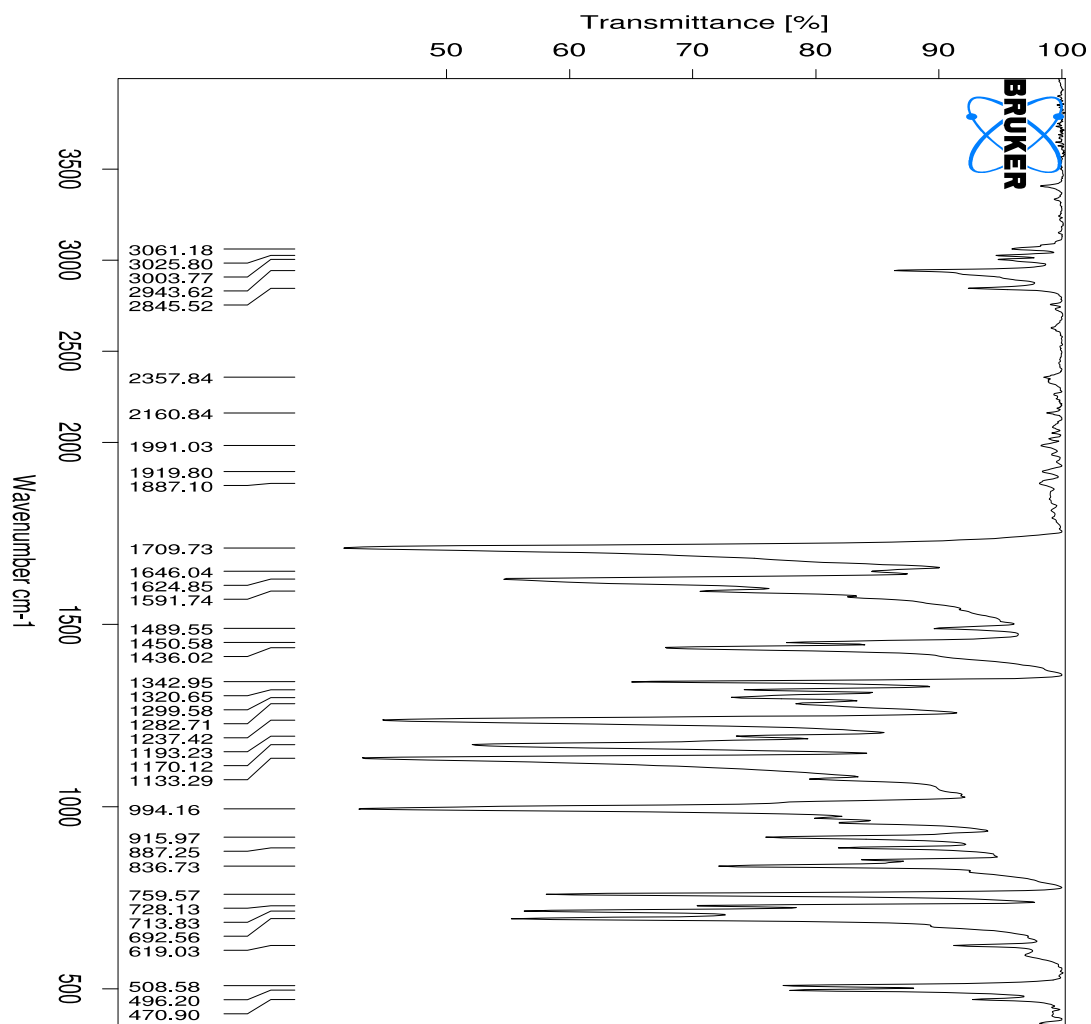
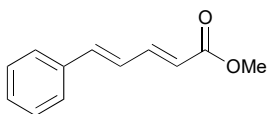
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04/04/2016





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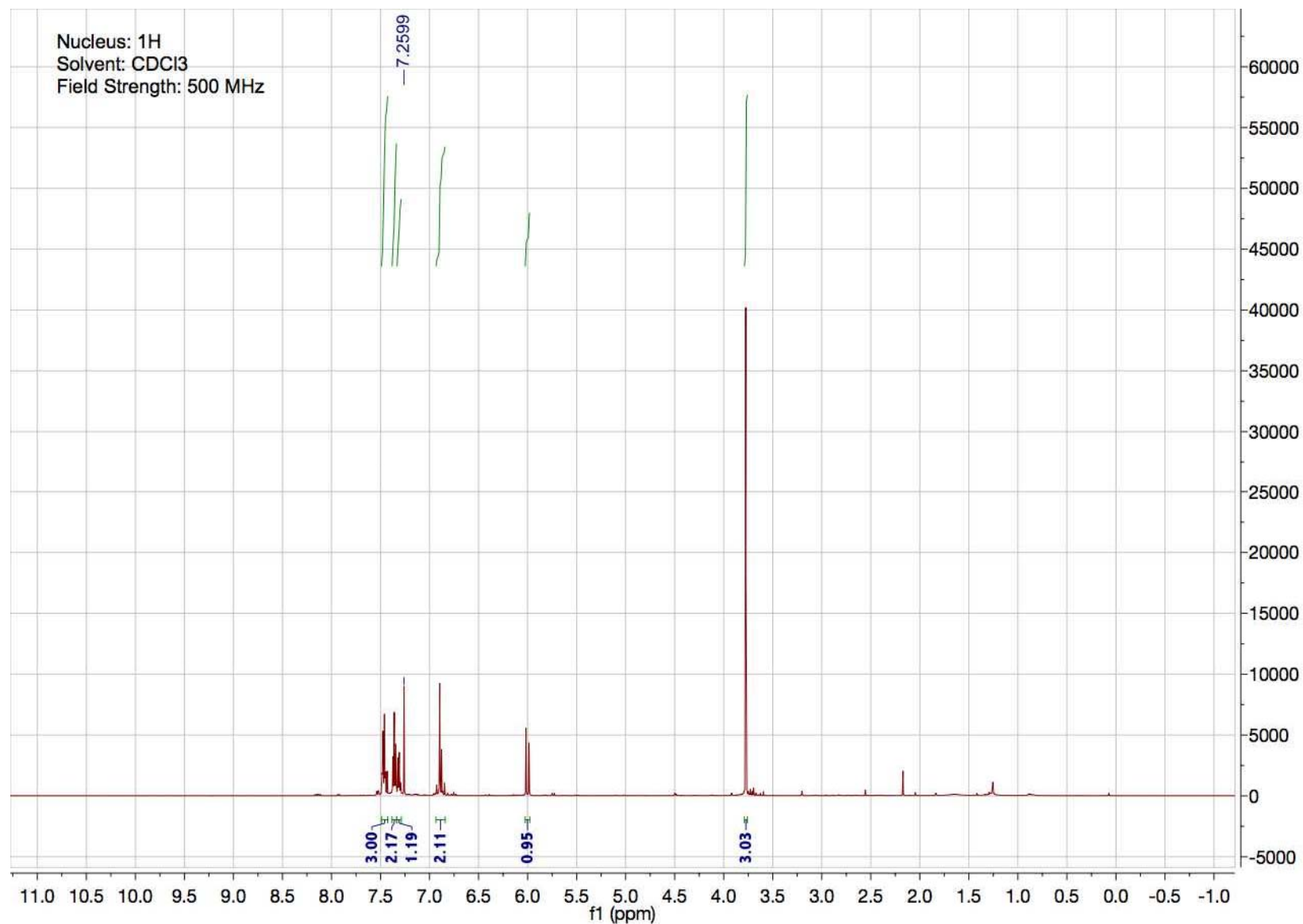


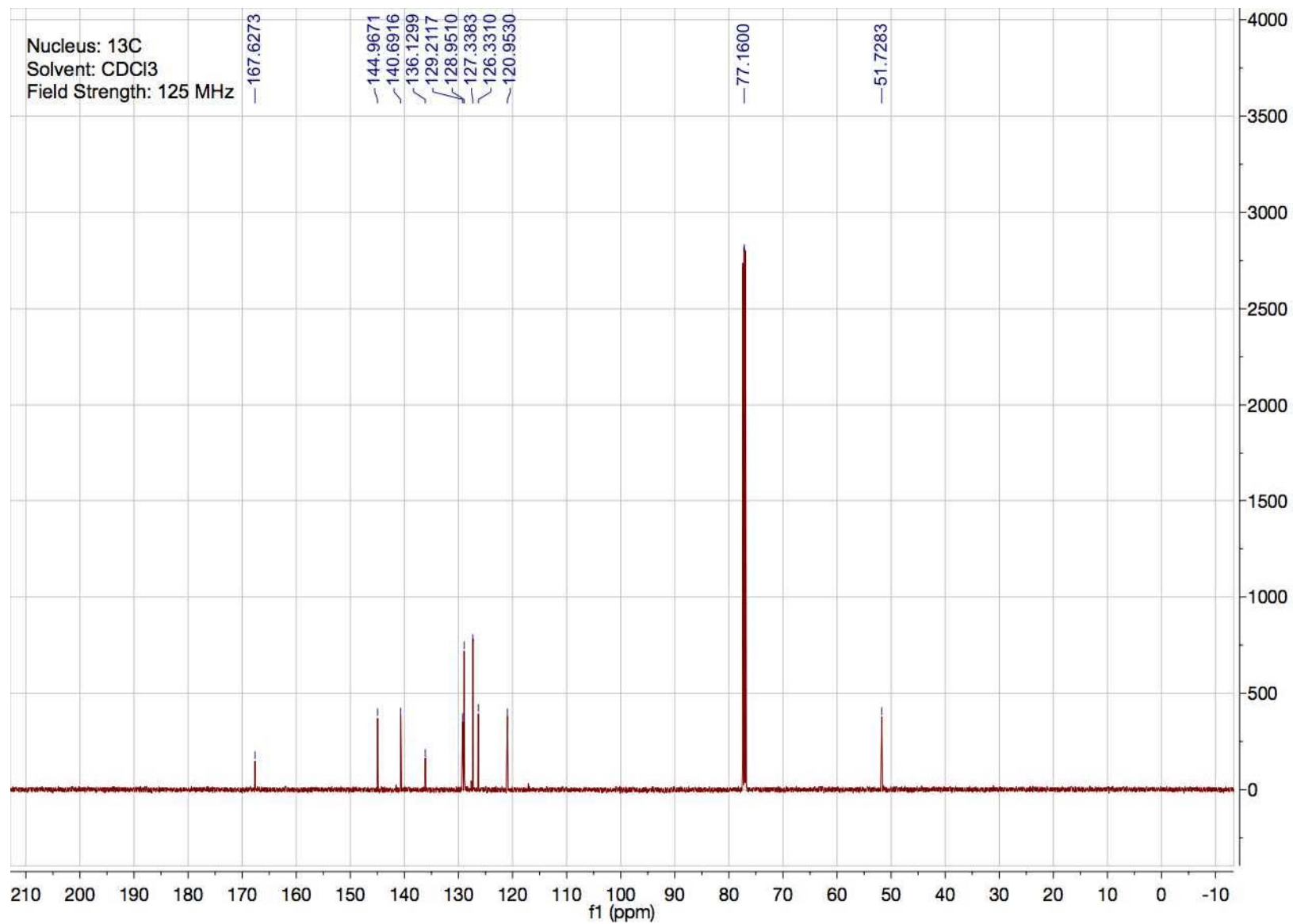
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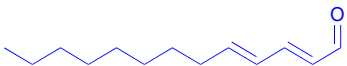
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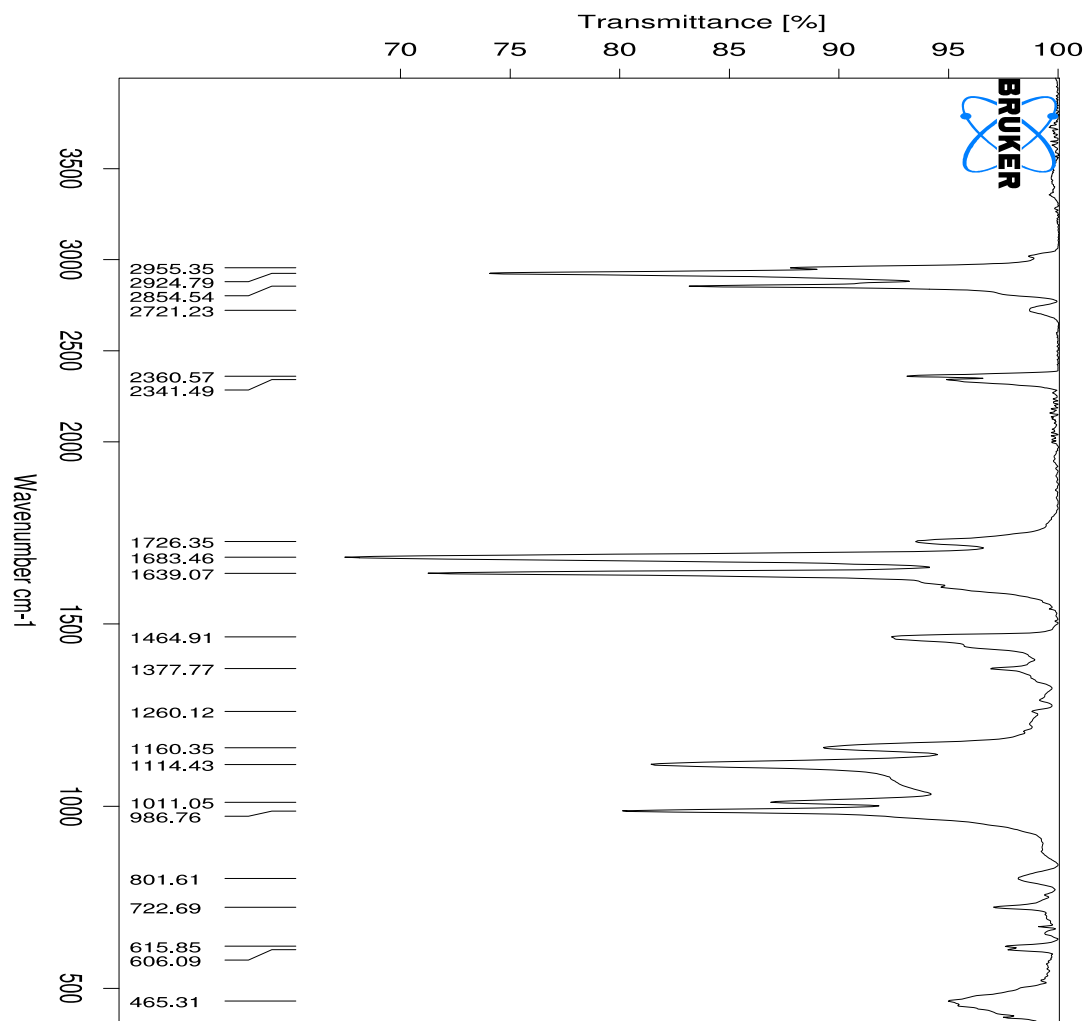
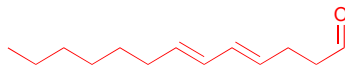




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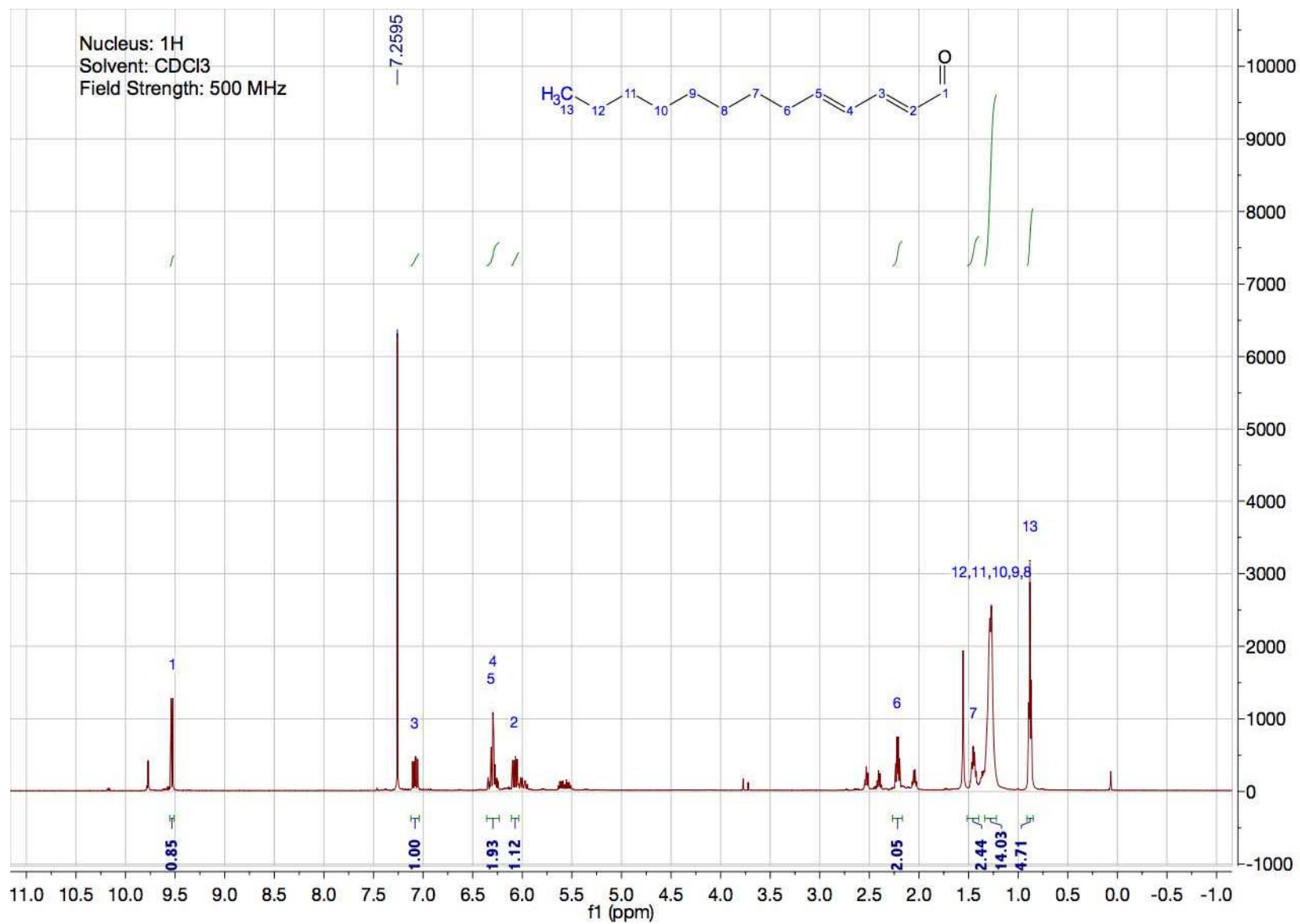


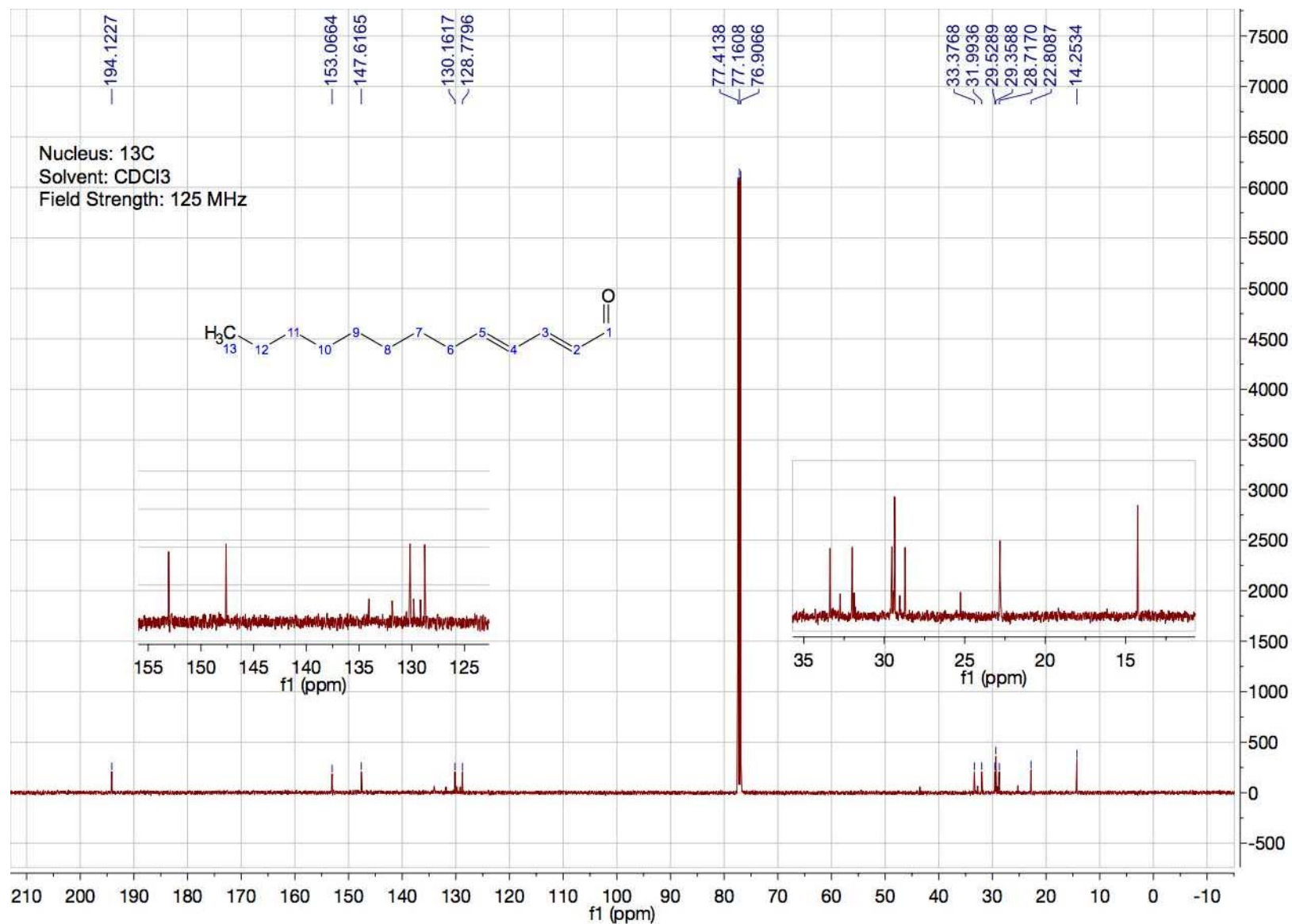
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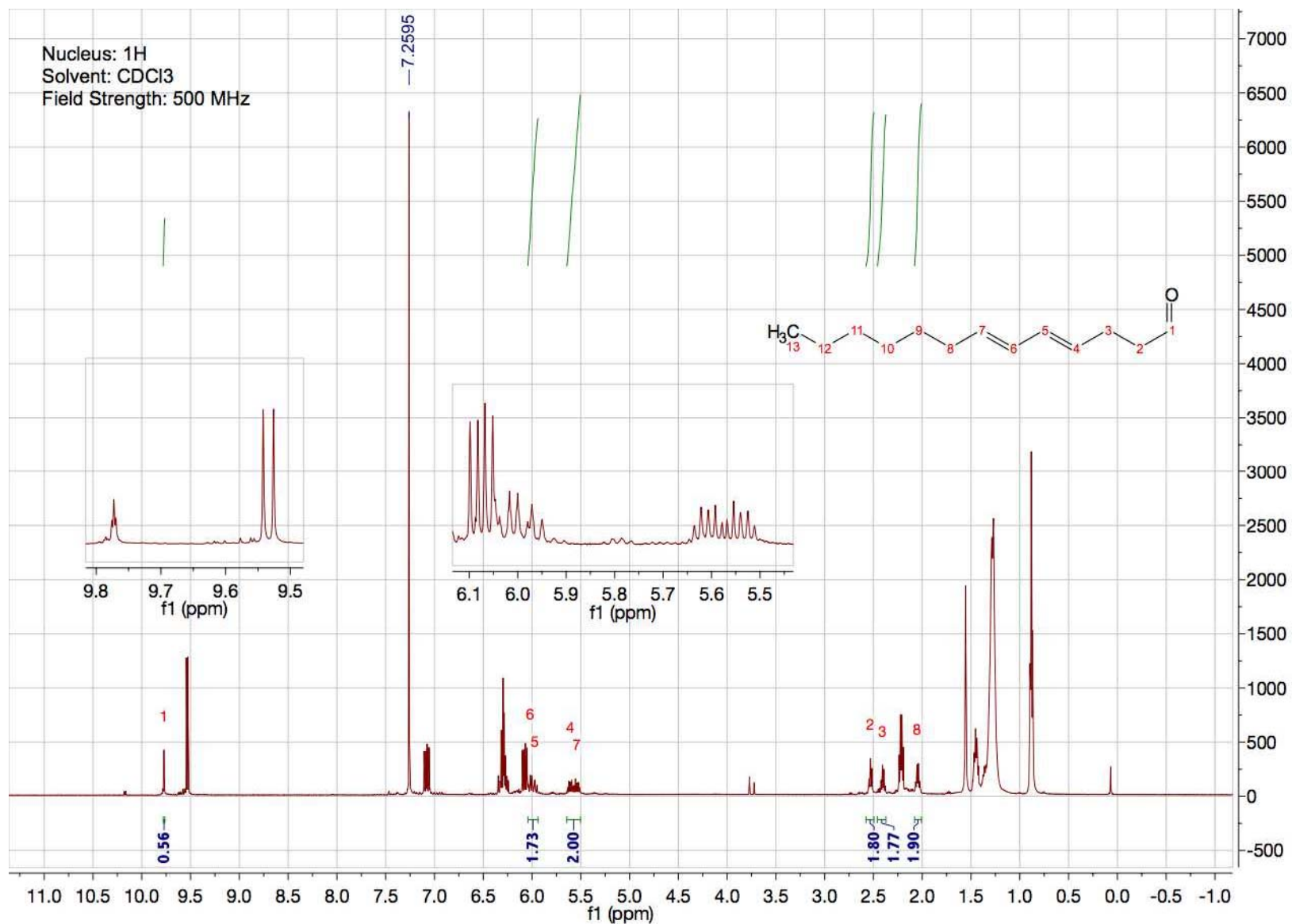


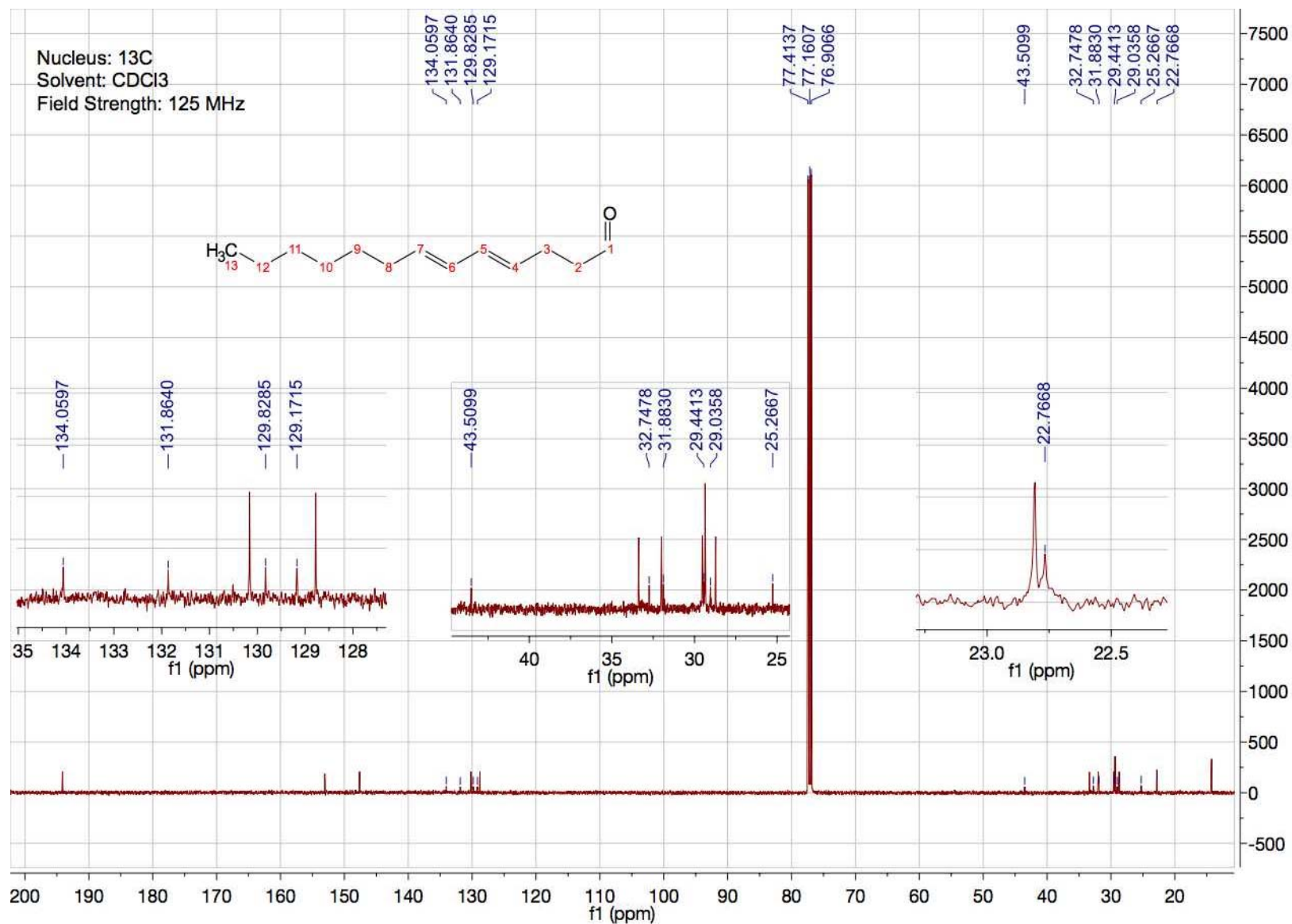
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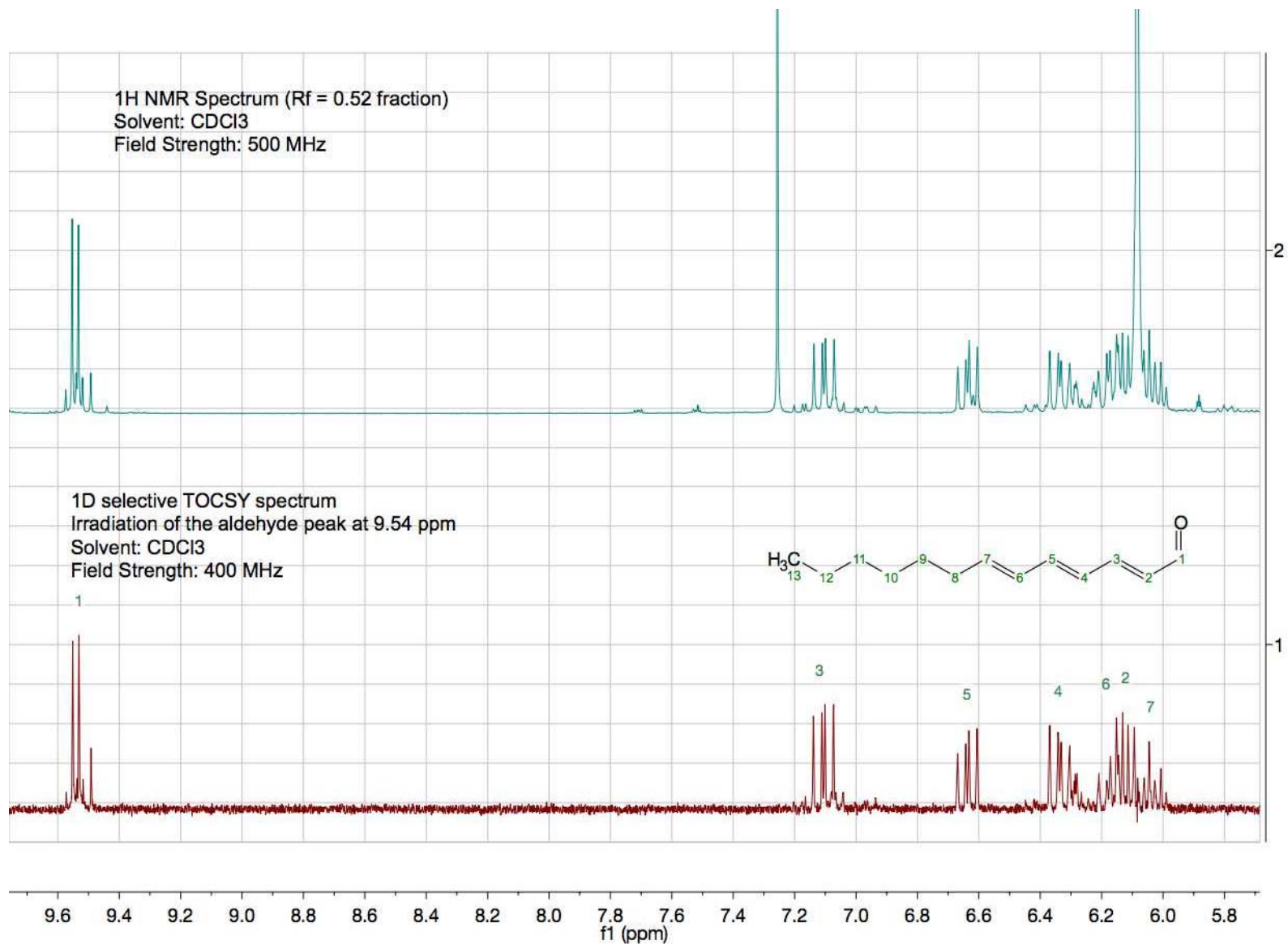
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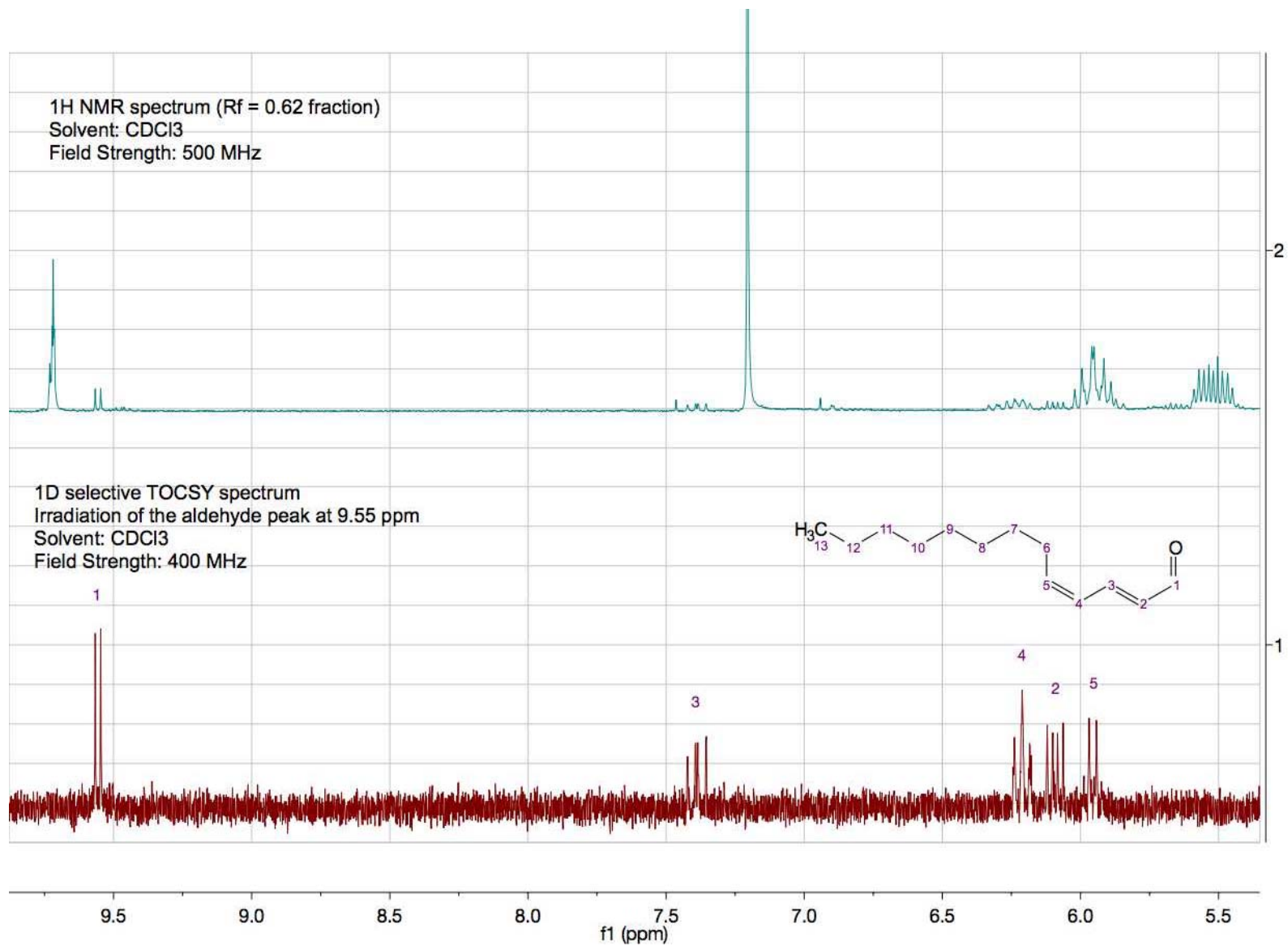




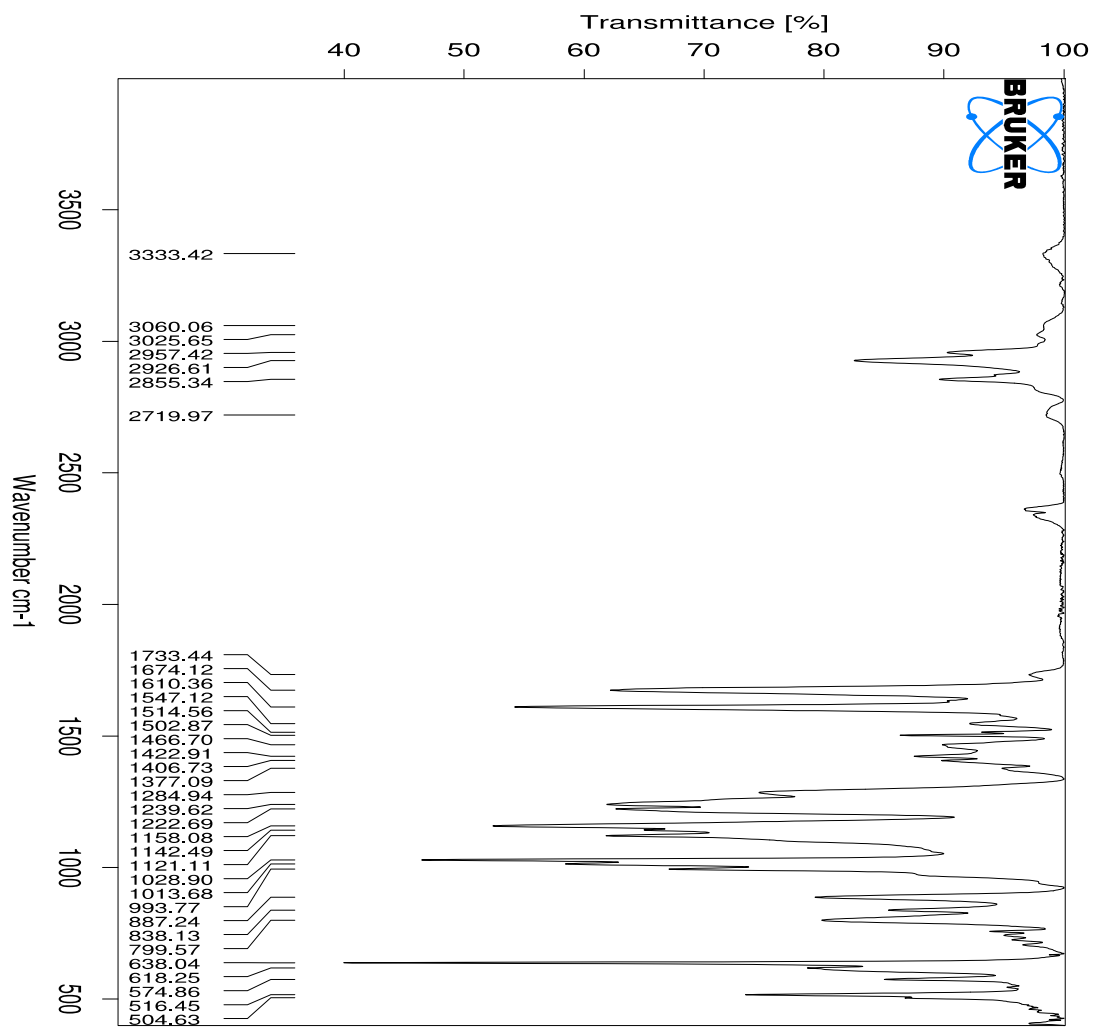
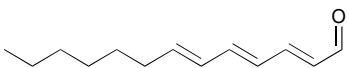






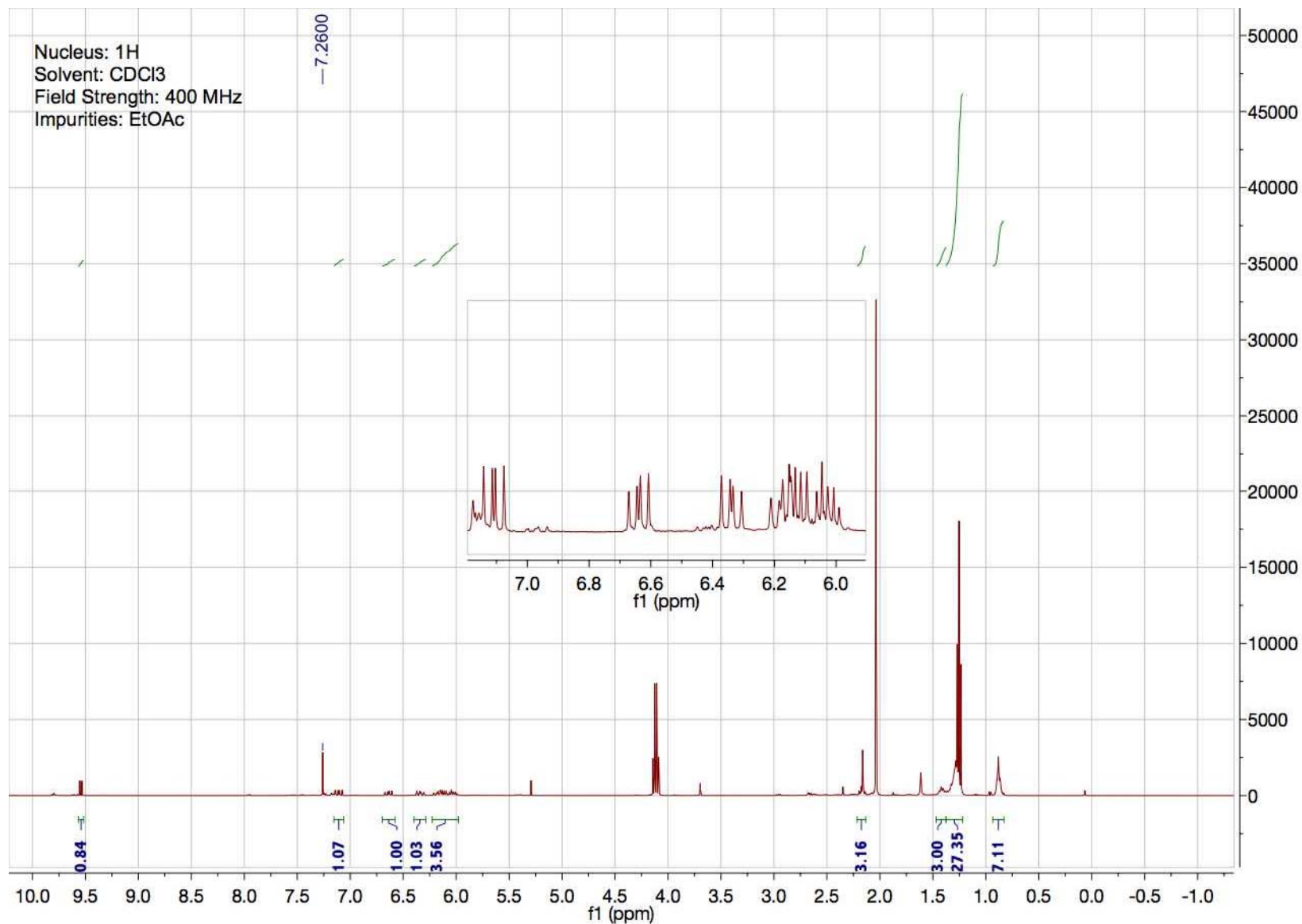


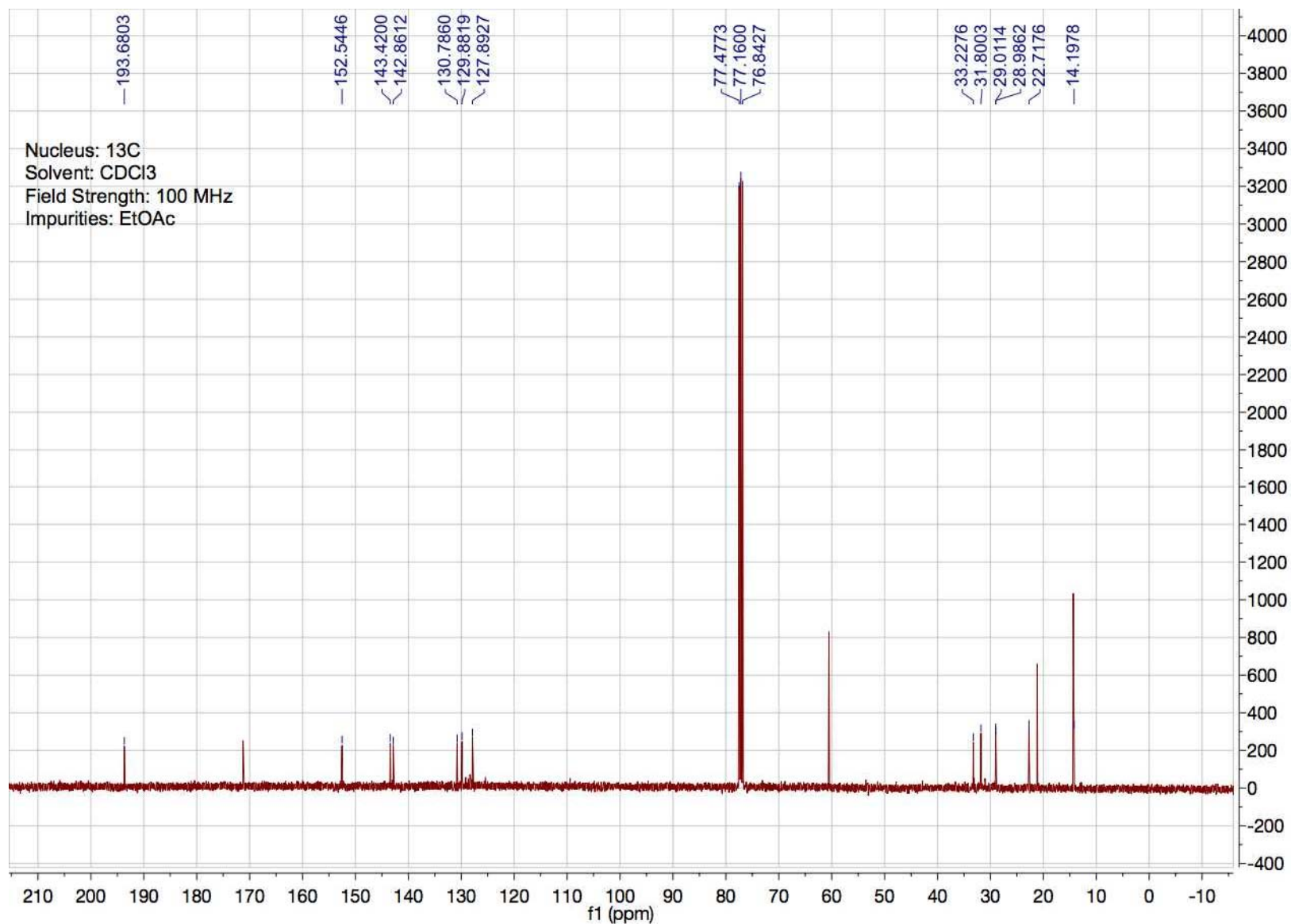
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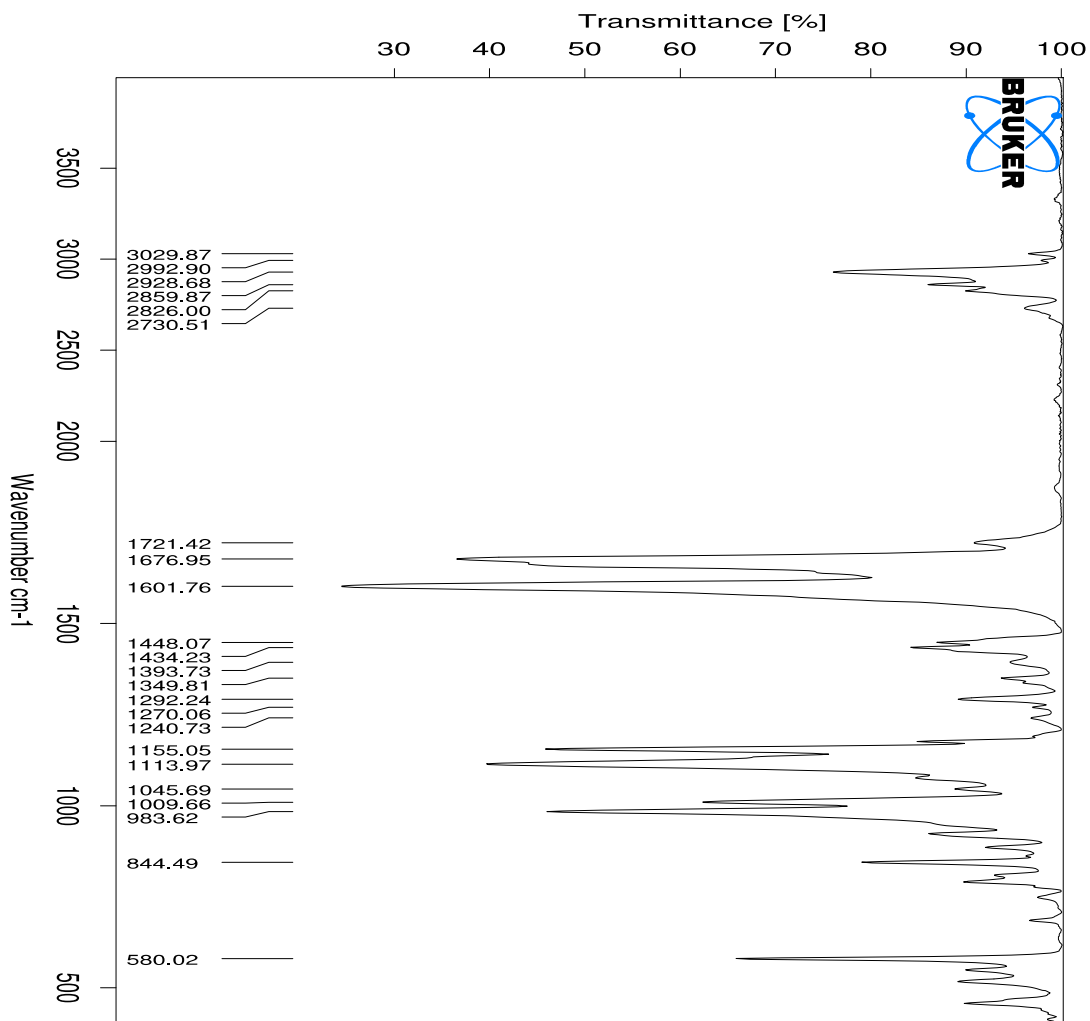
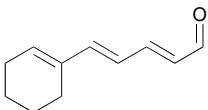
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14/10/2016





4n

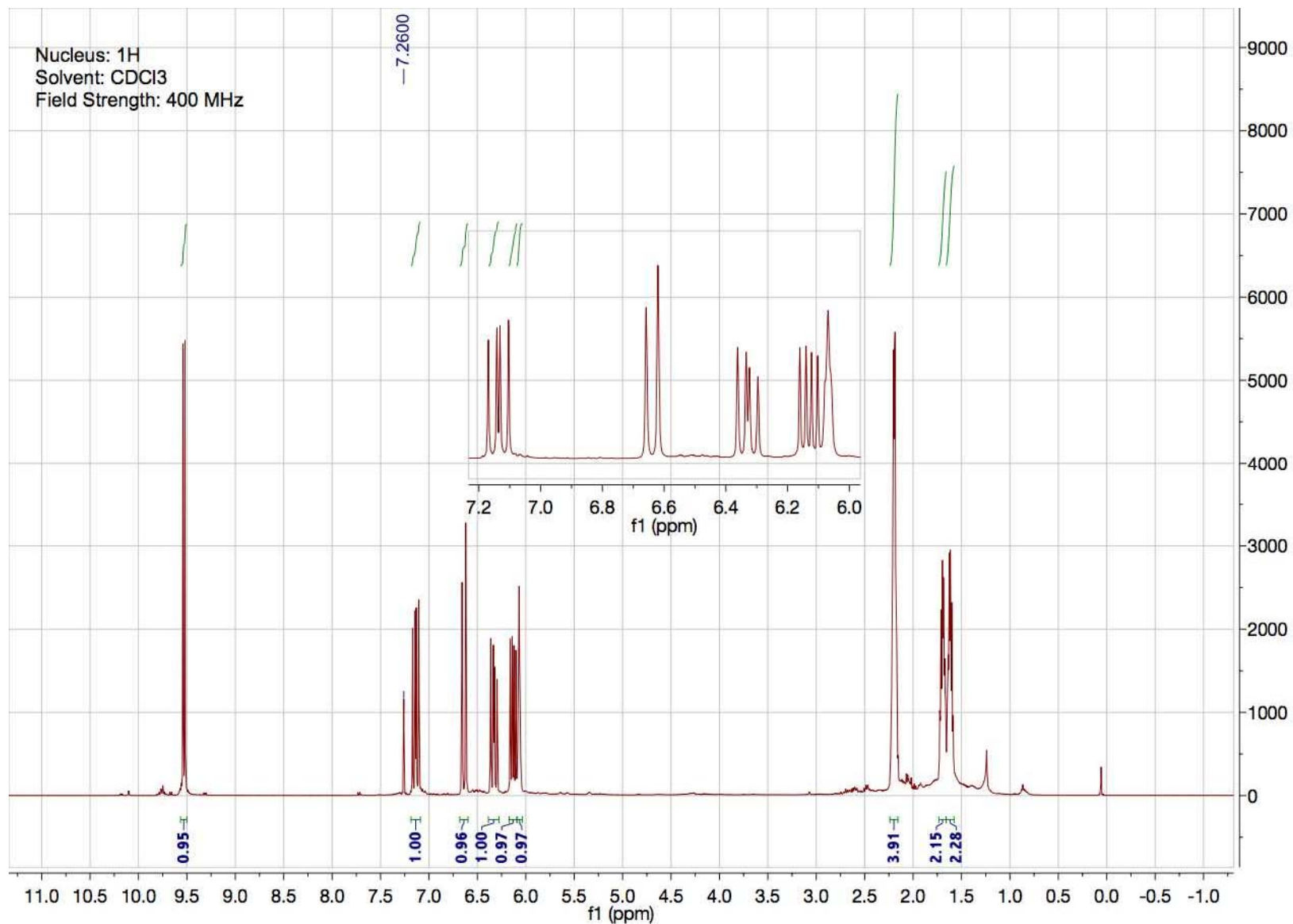


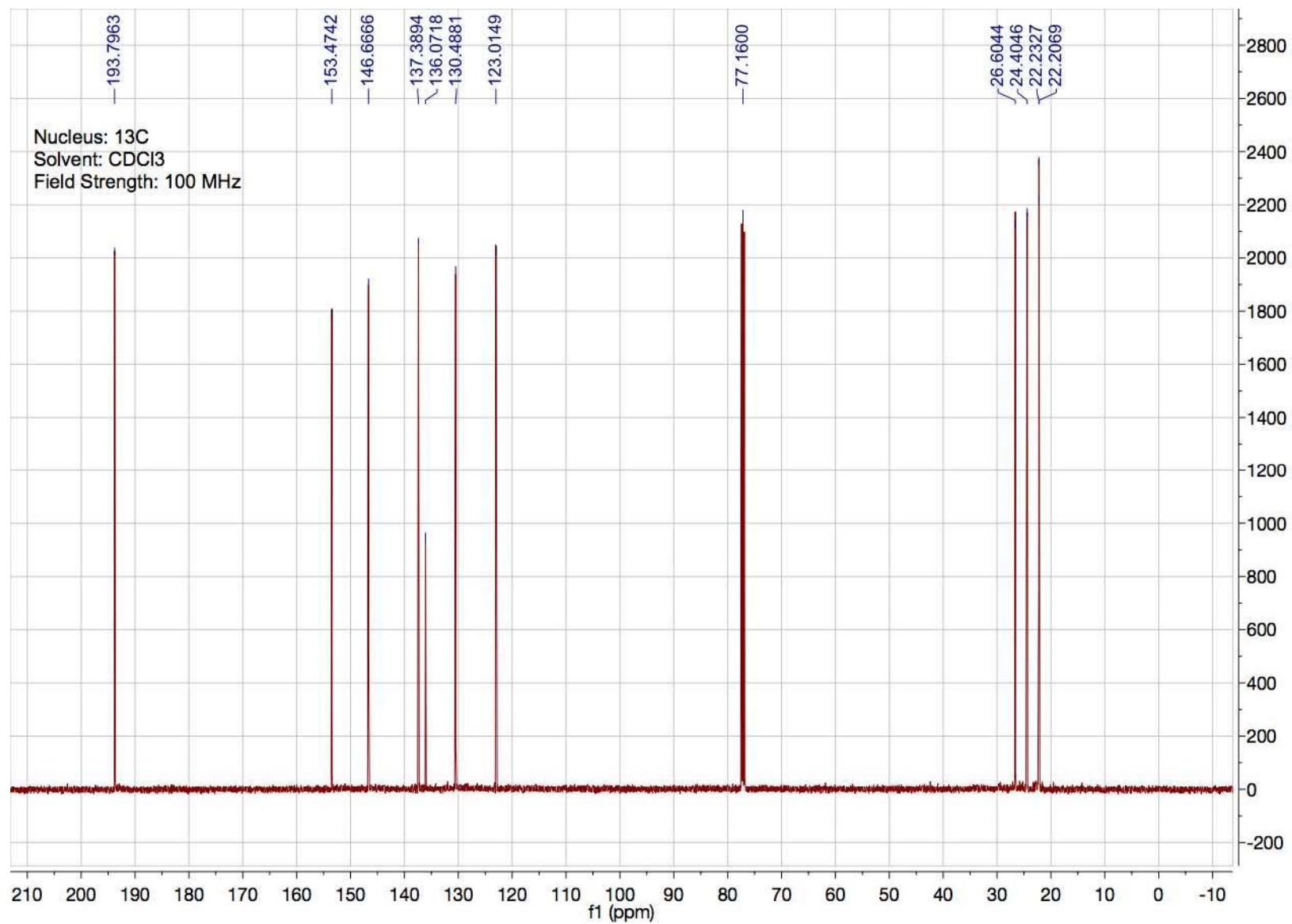
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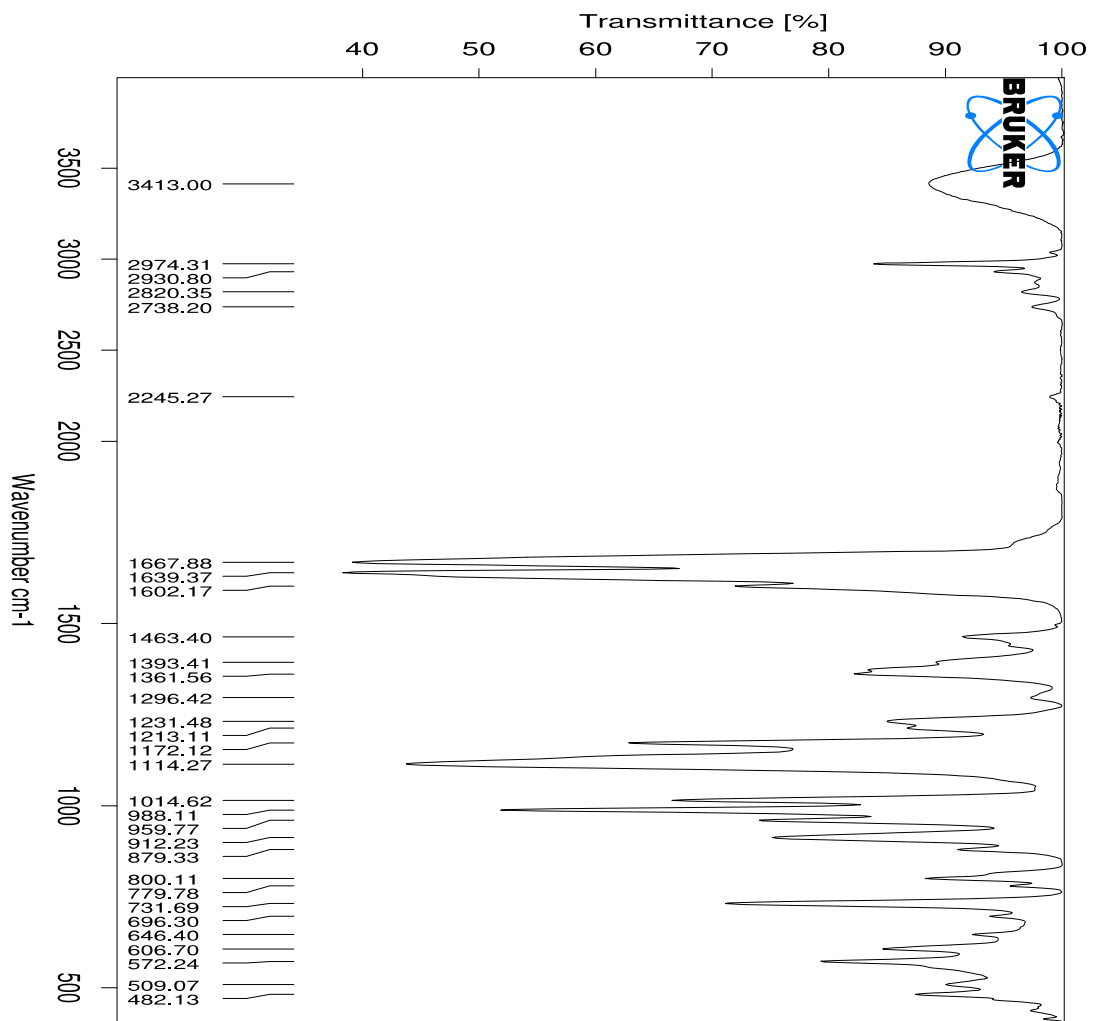
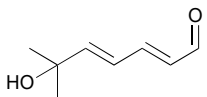
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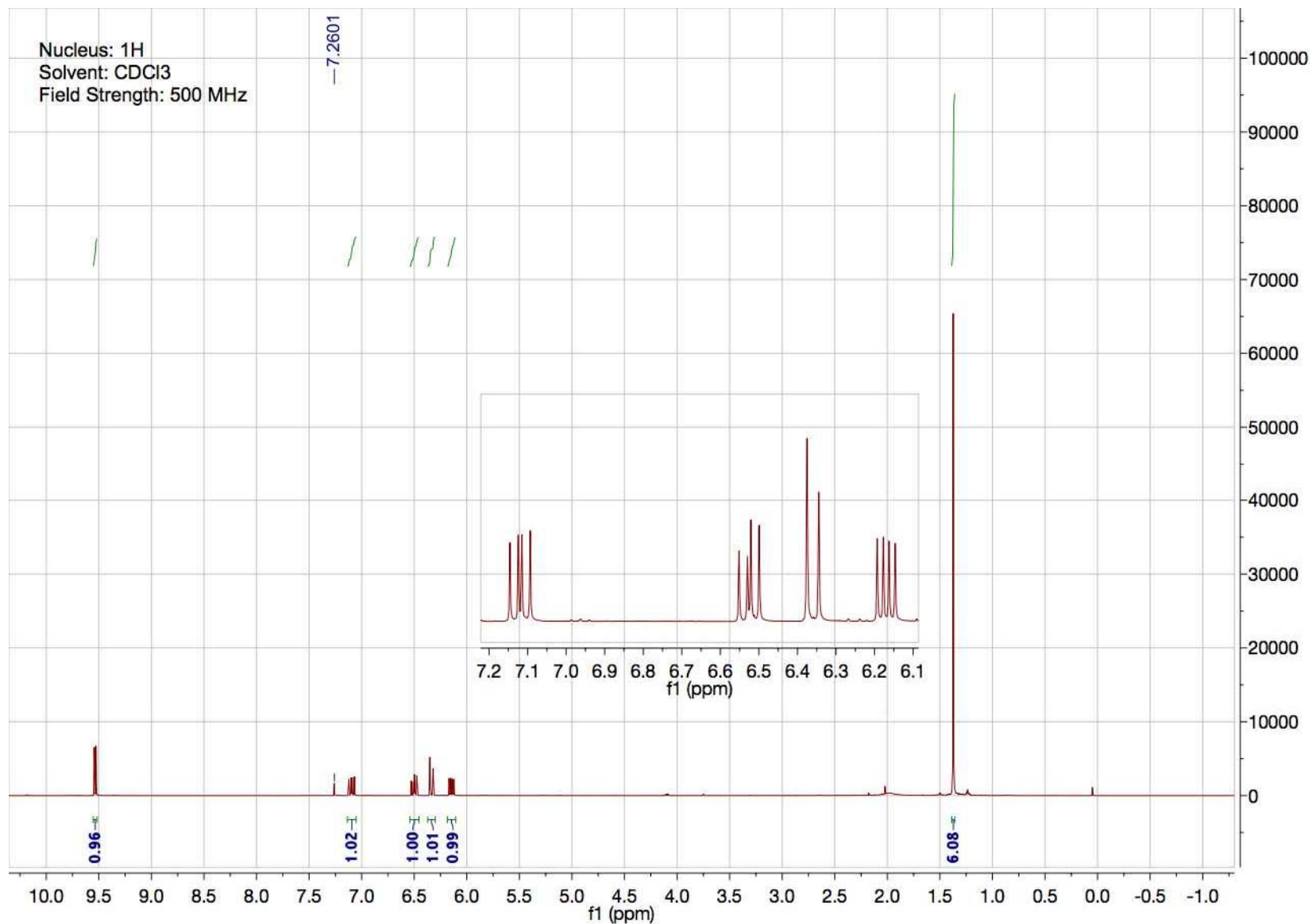
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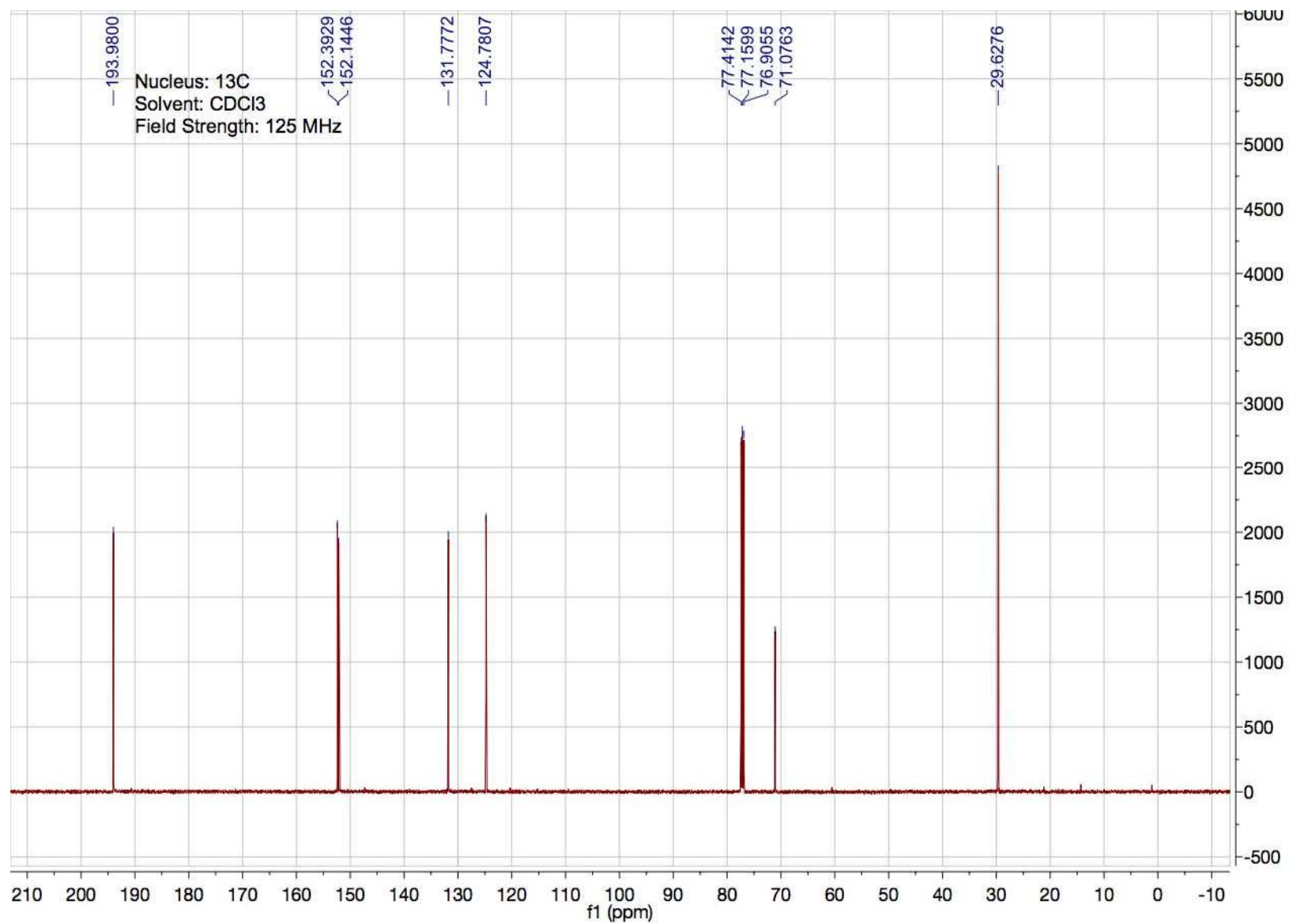


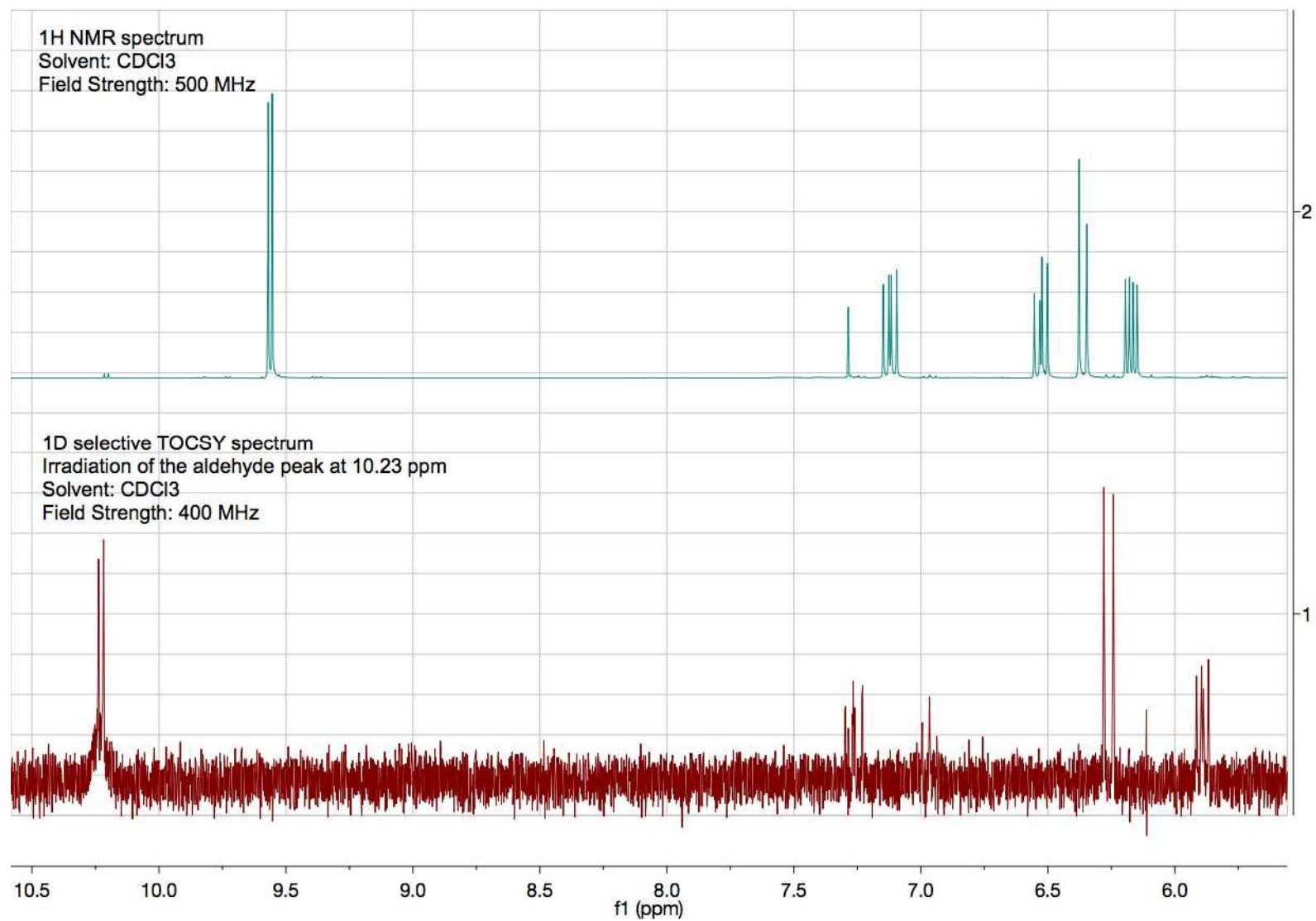


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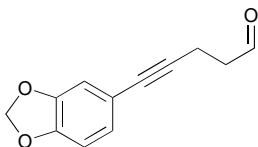






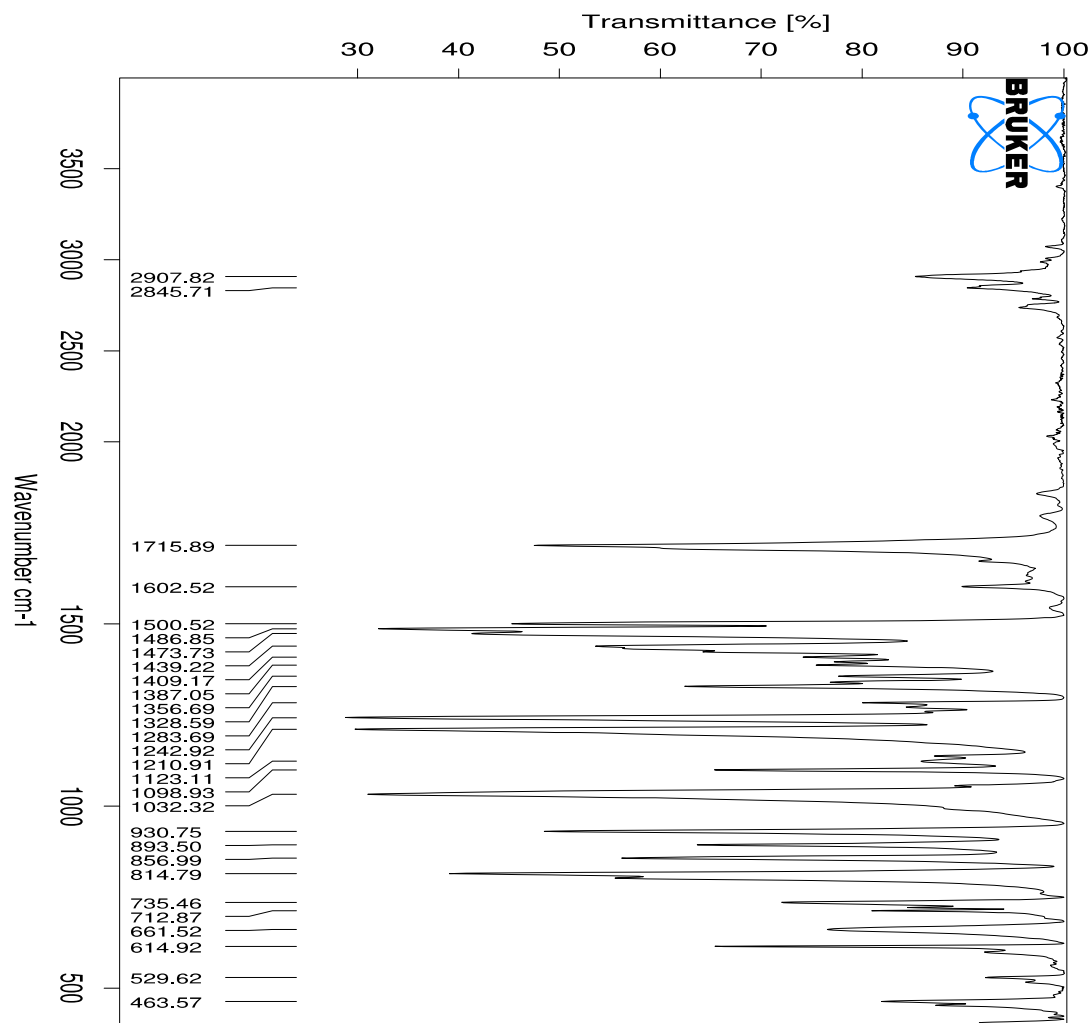
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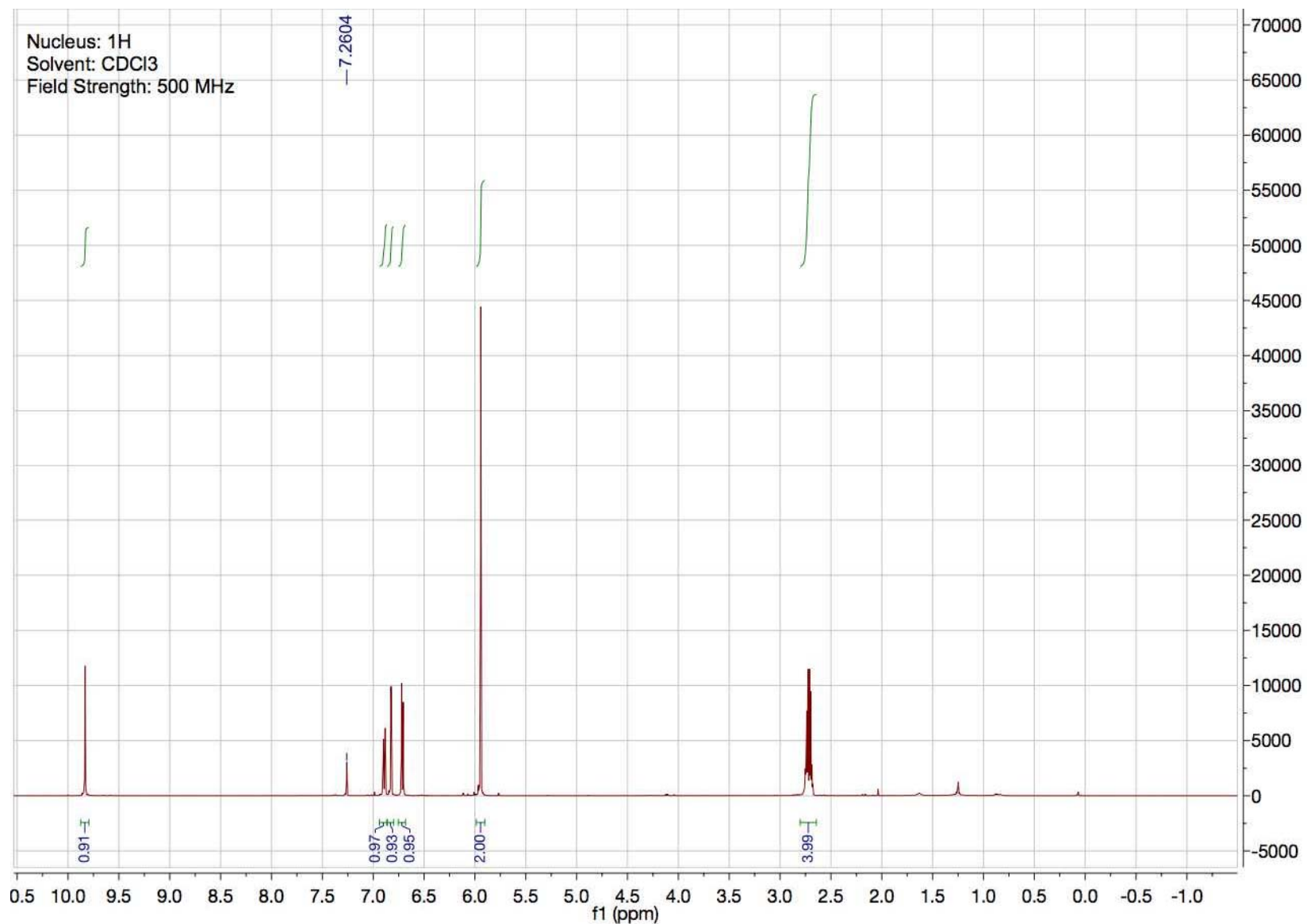
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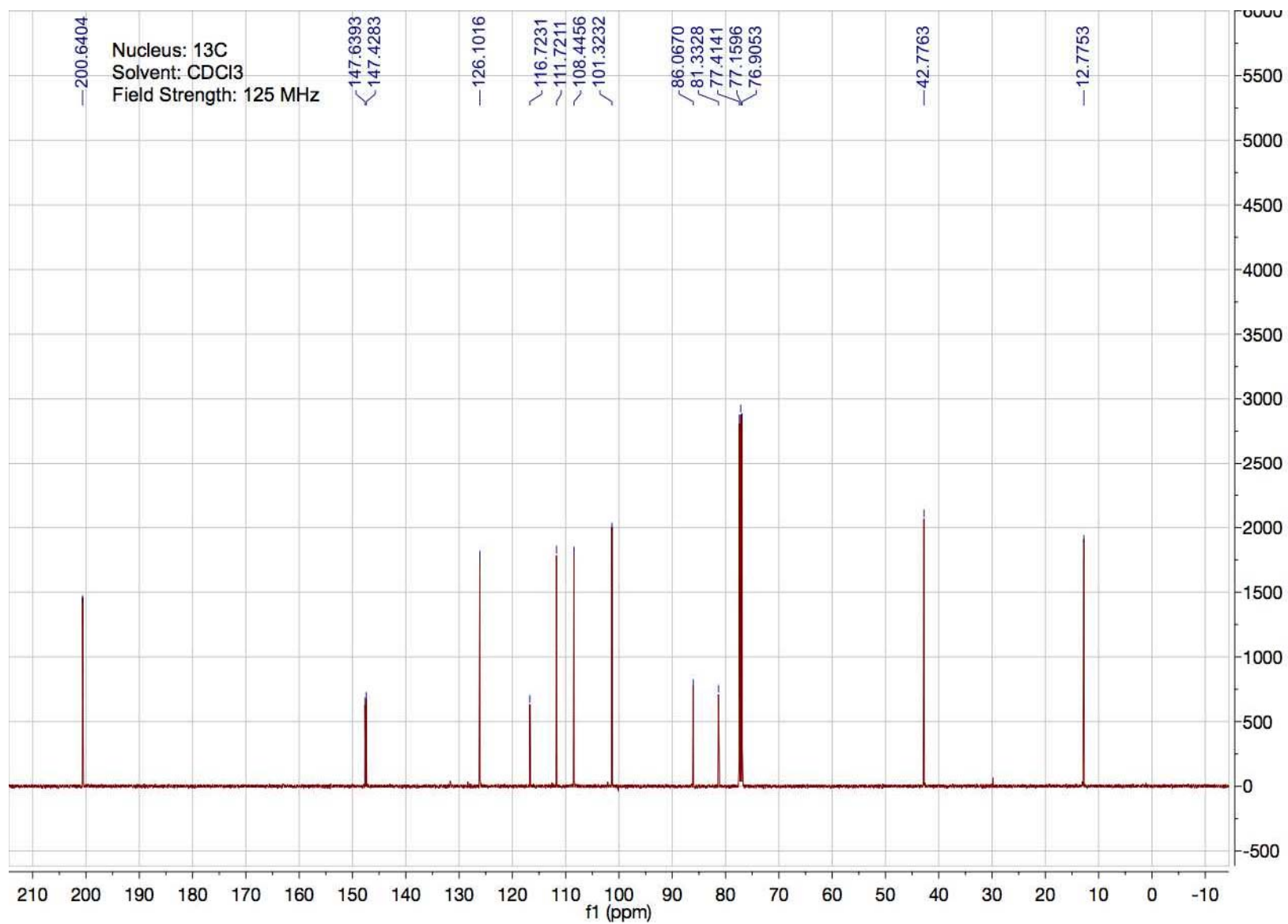


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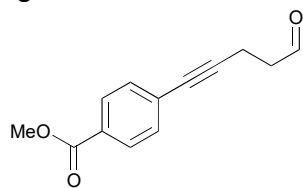
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30/06/2016		





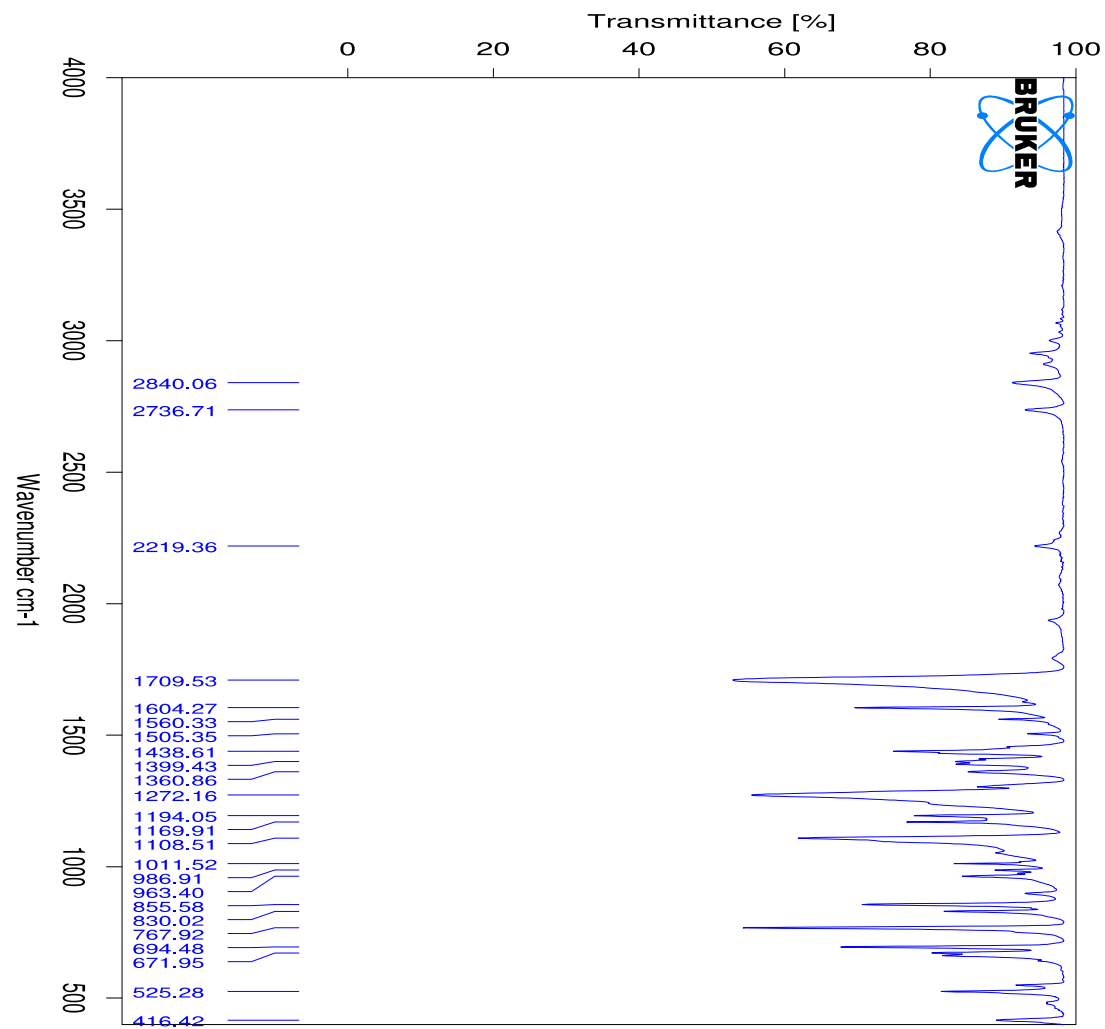


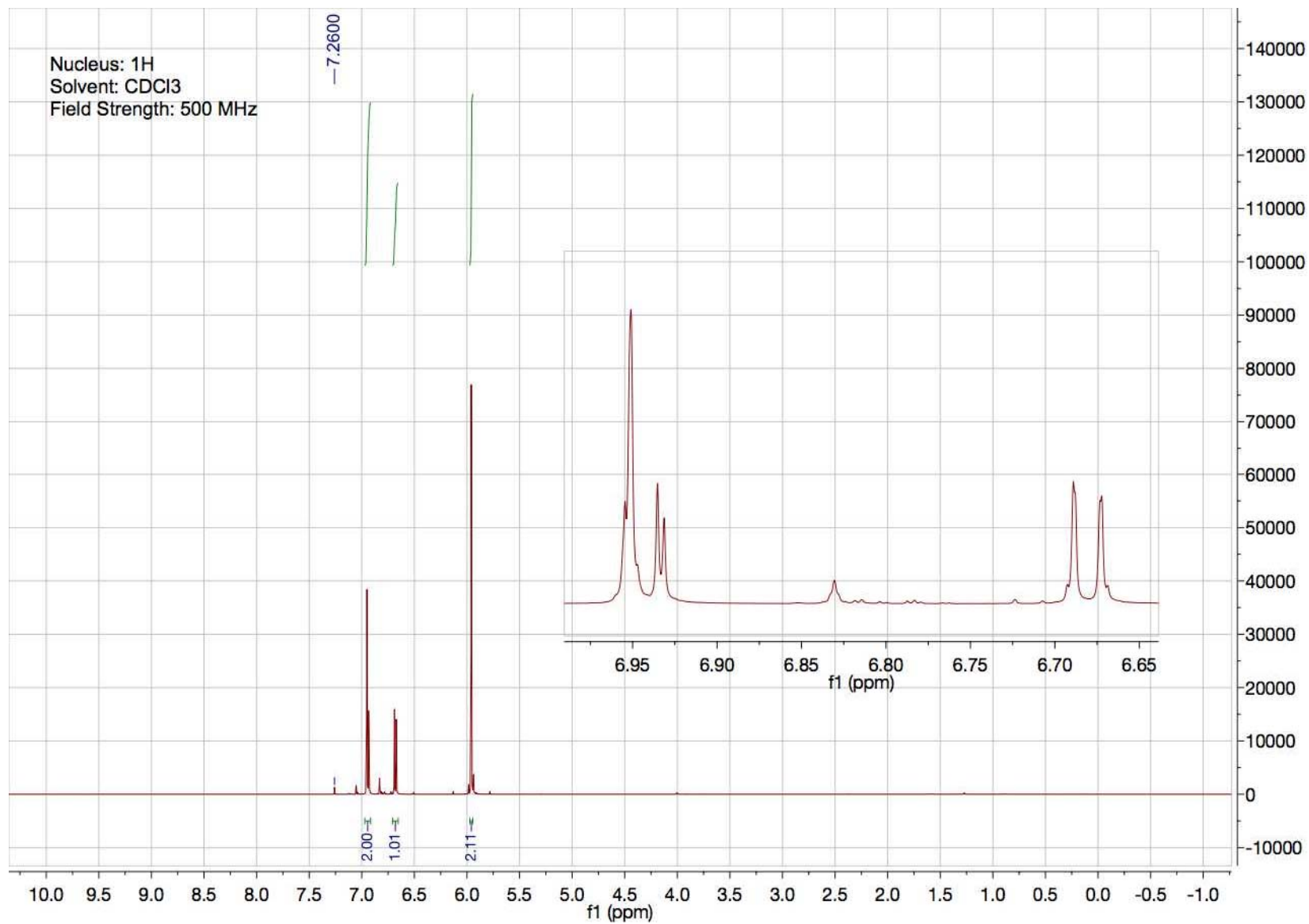
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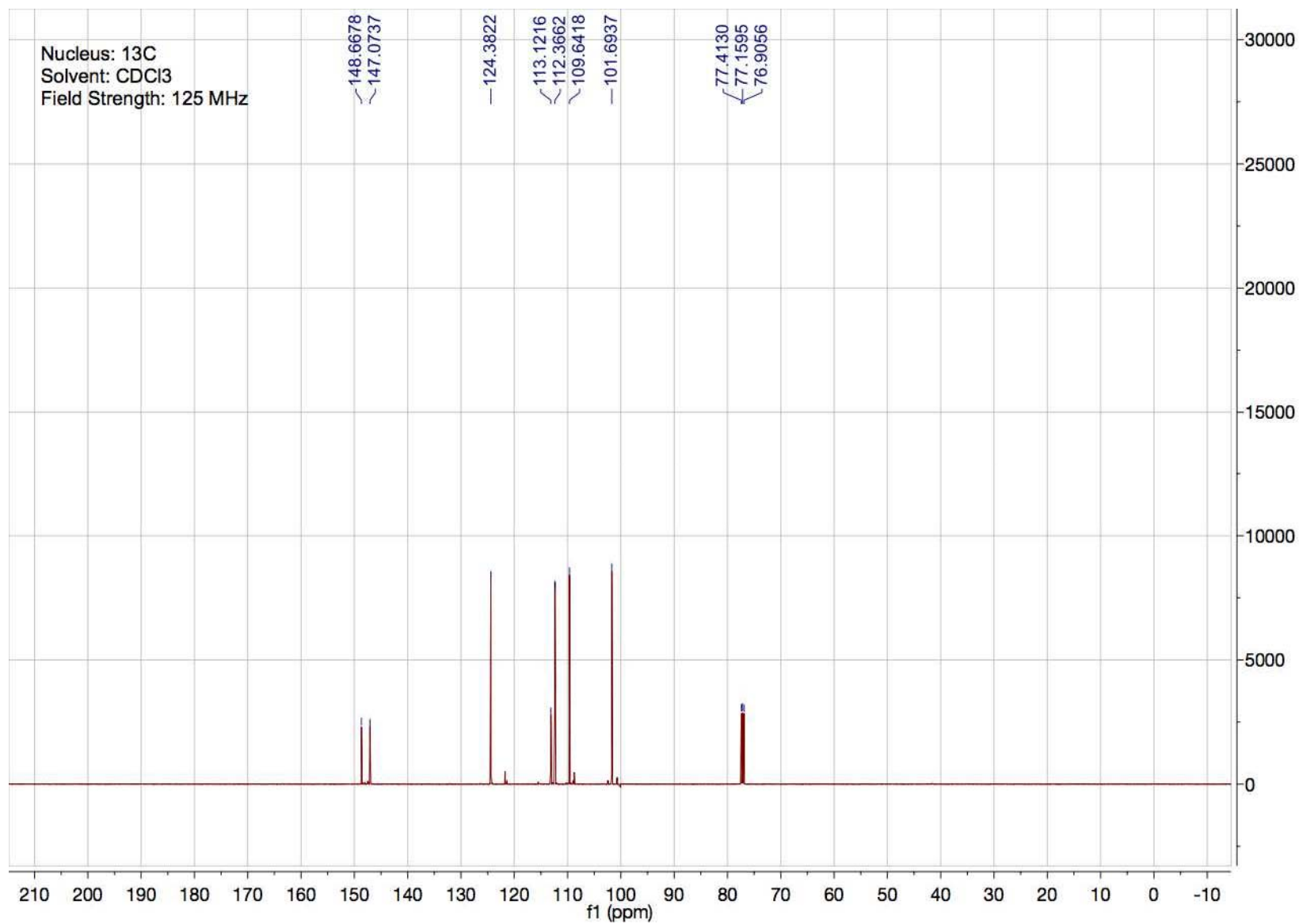


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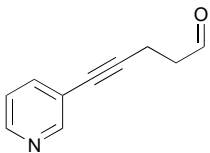
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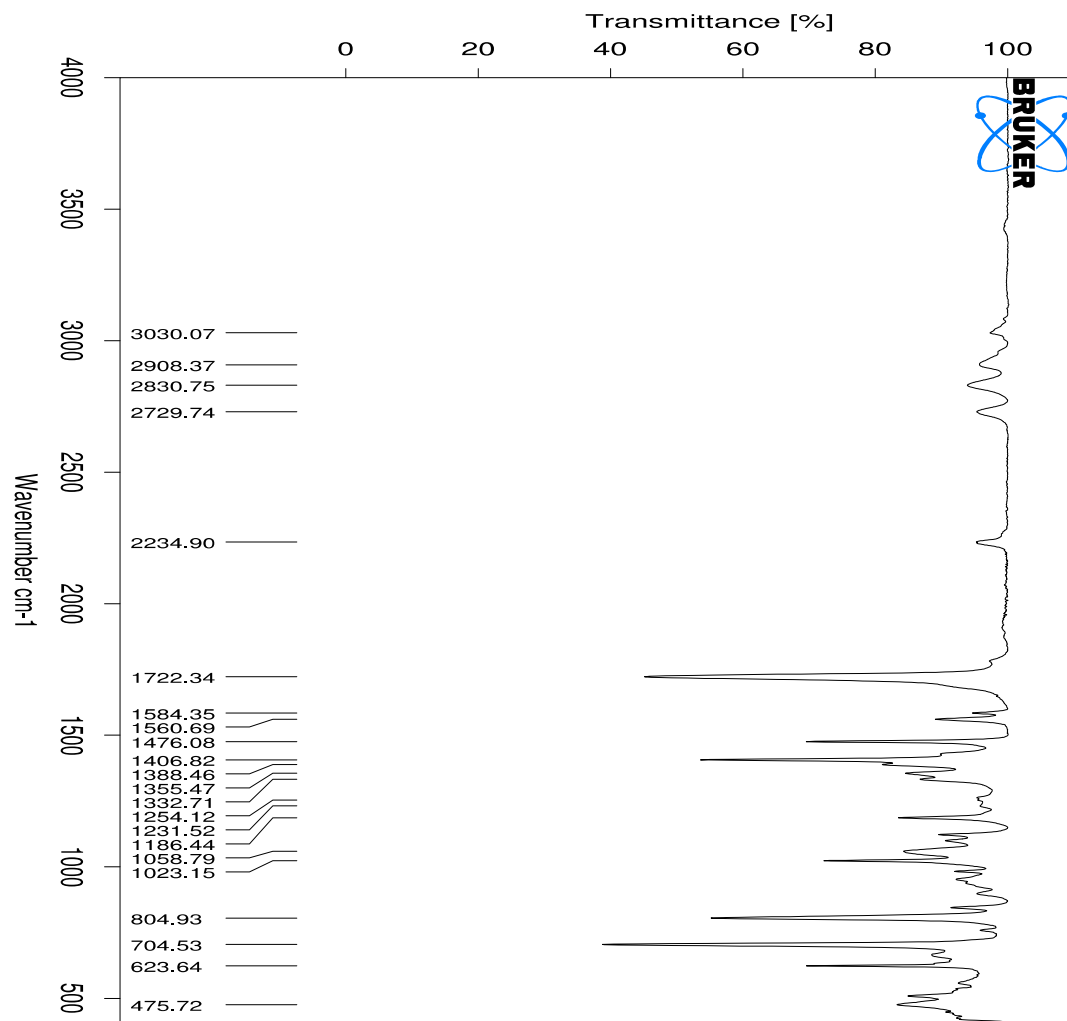


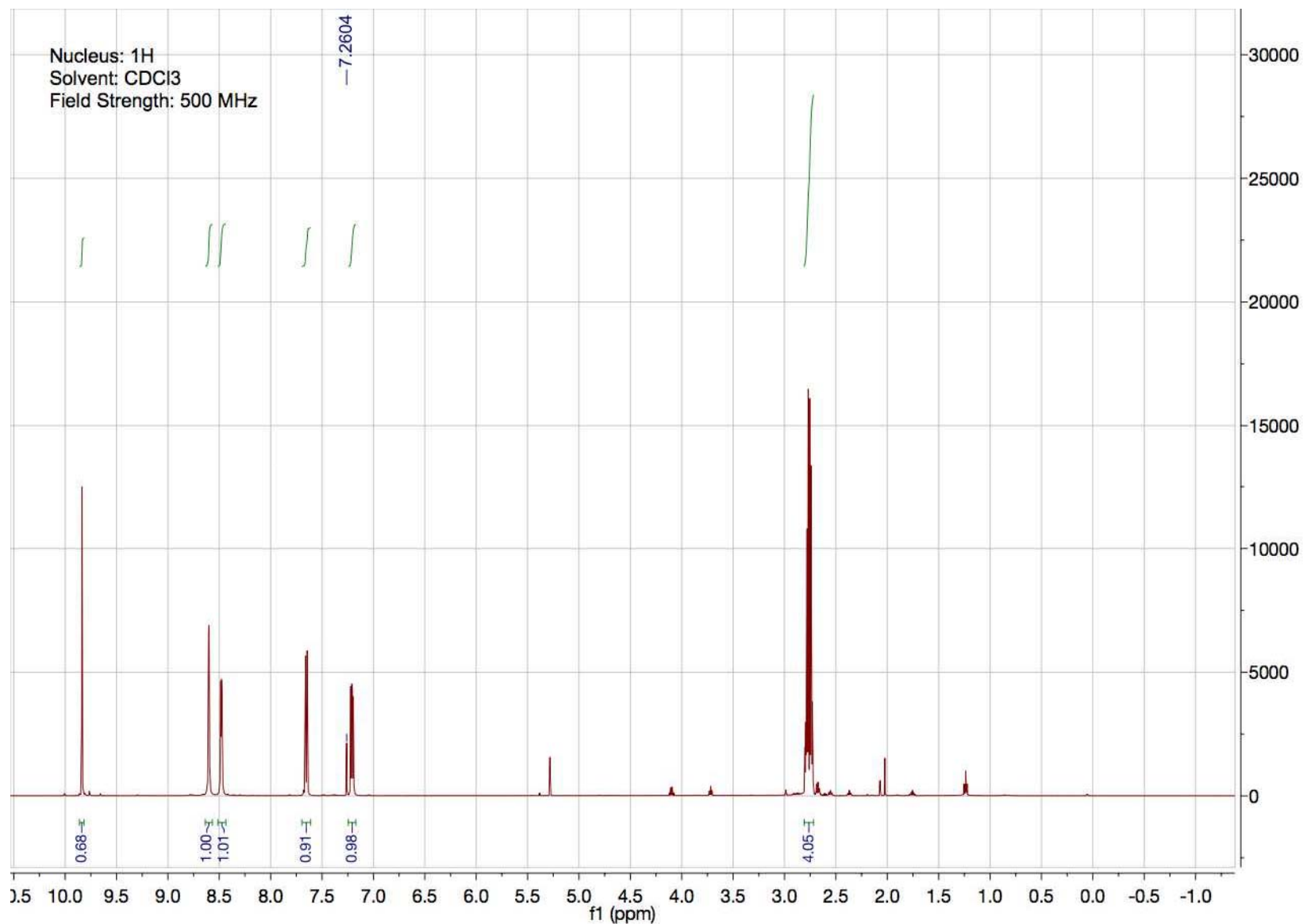
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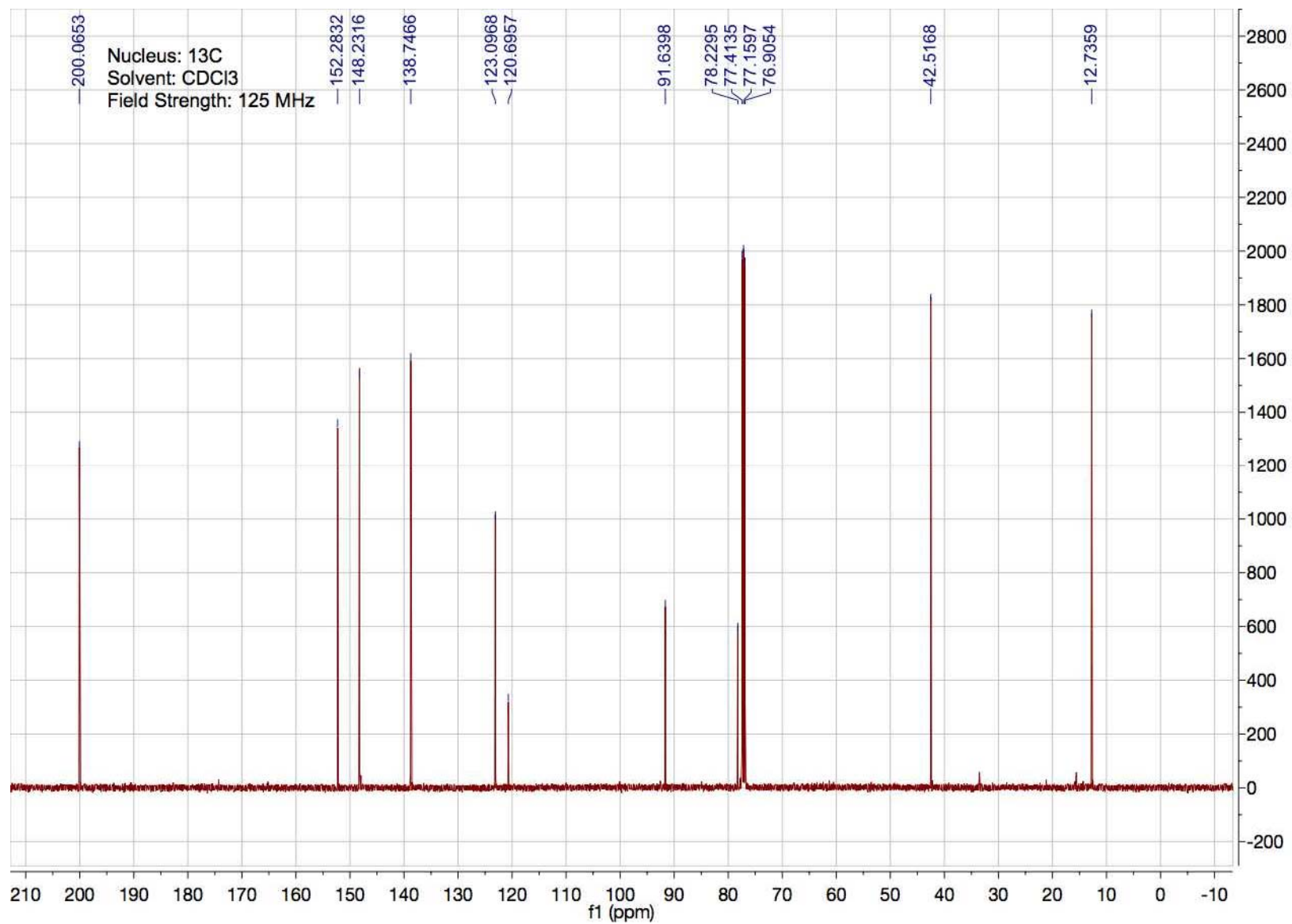


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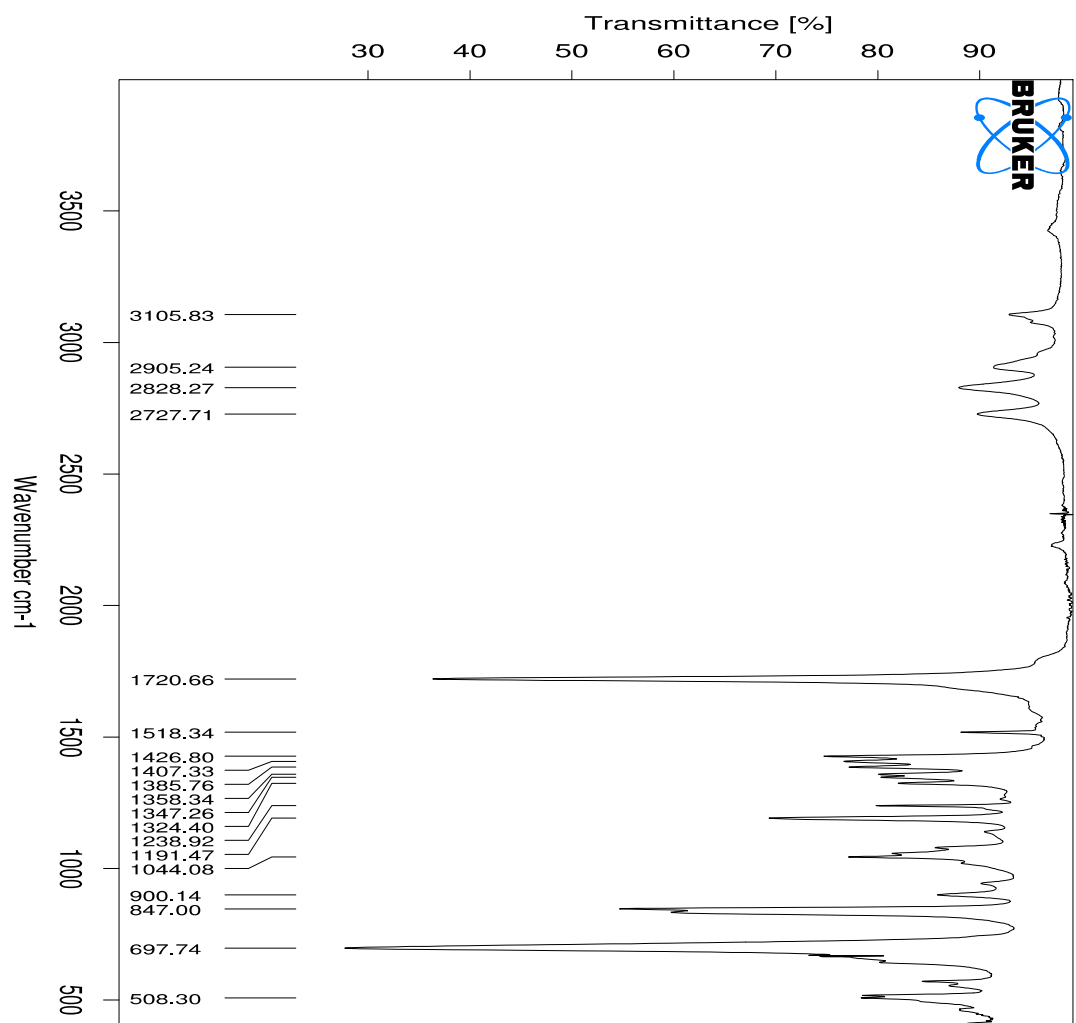
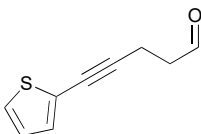
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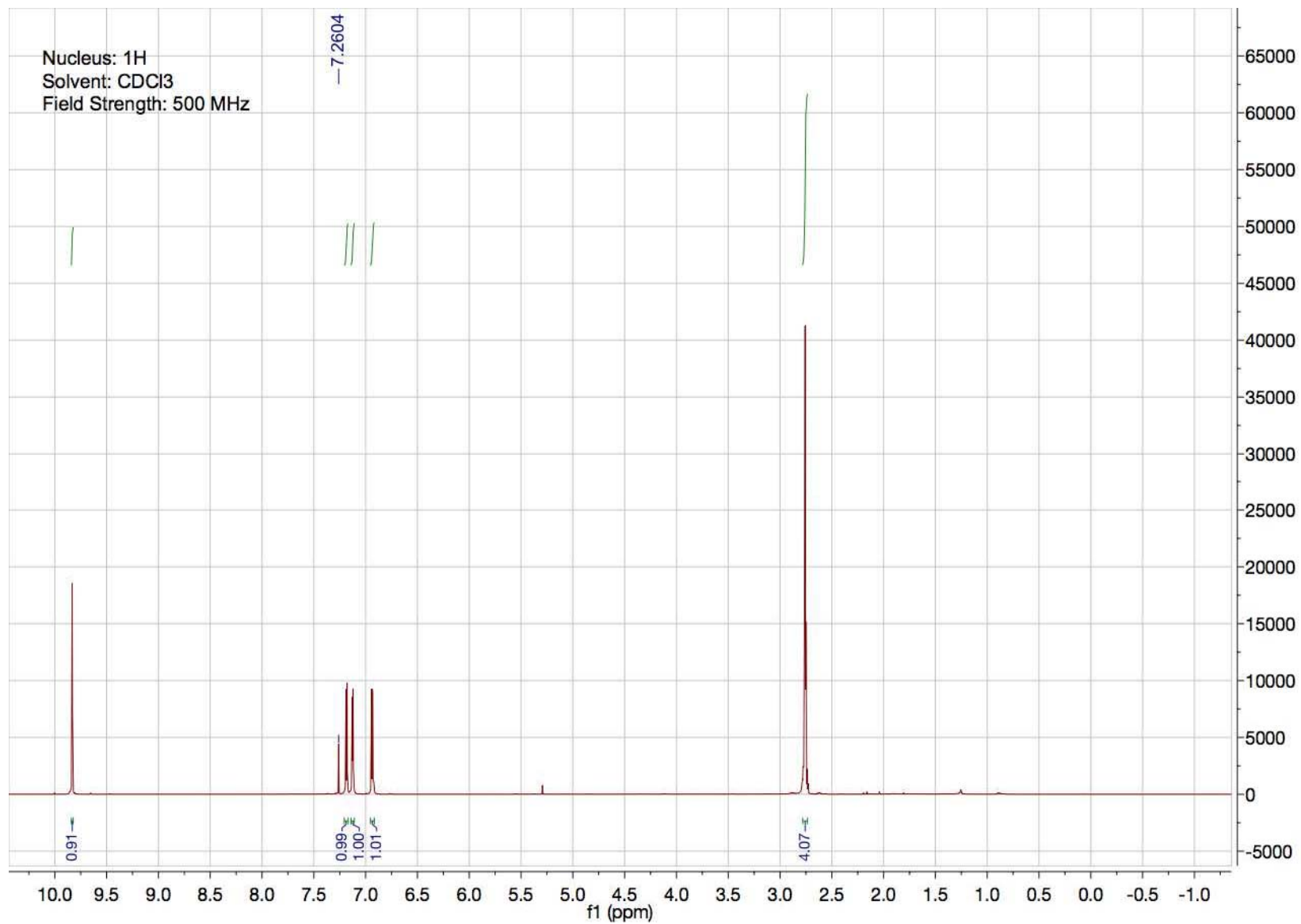
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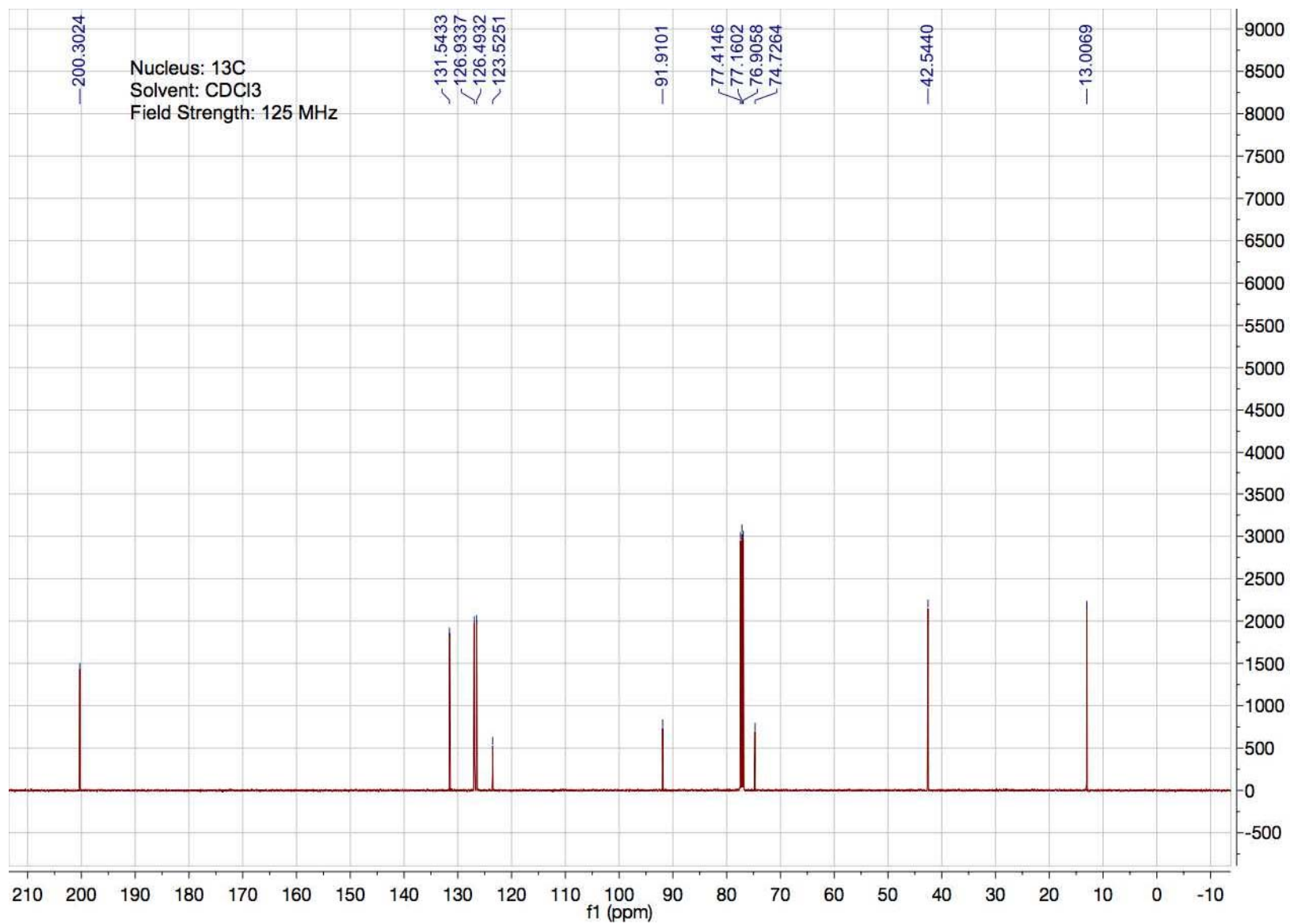


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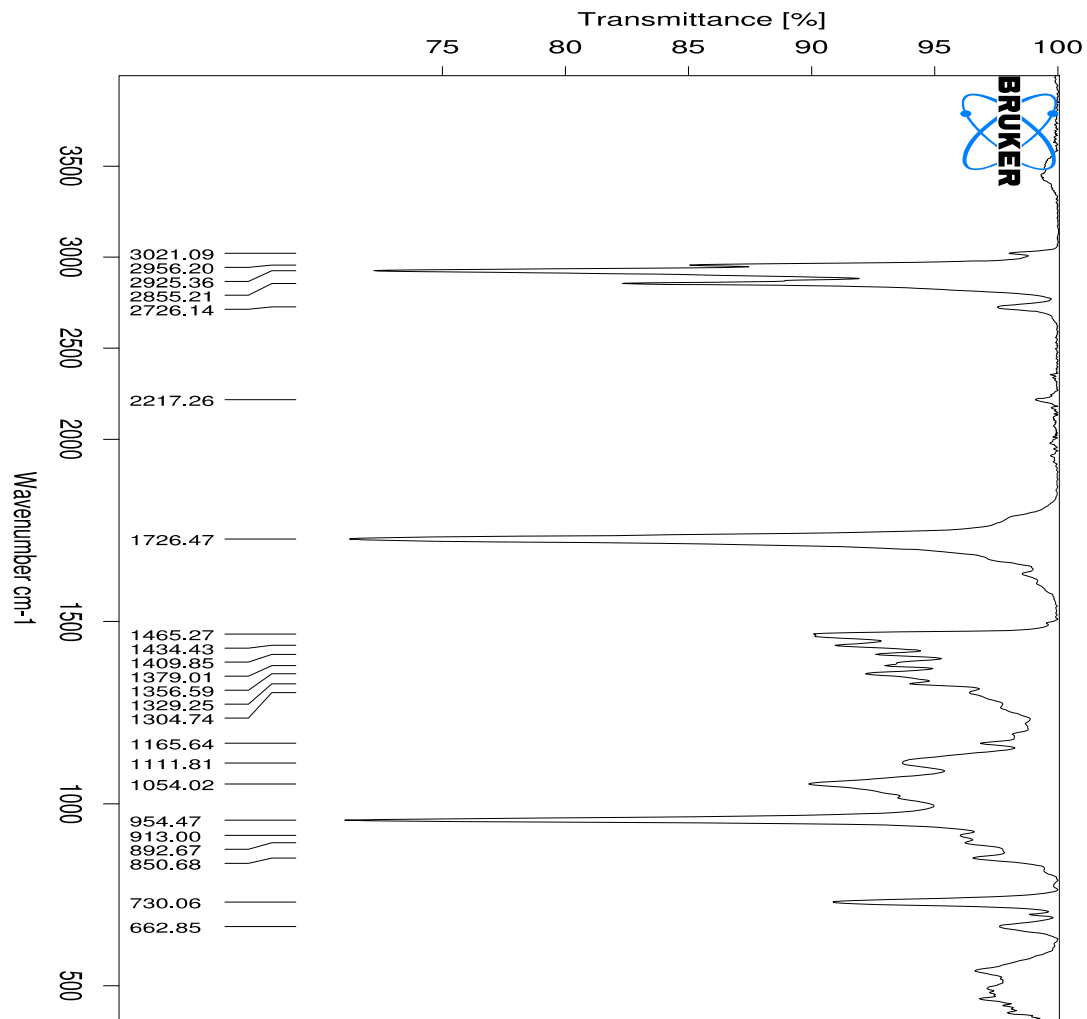
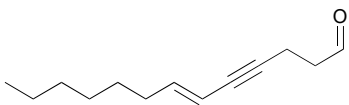
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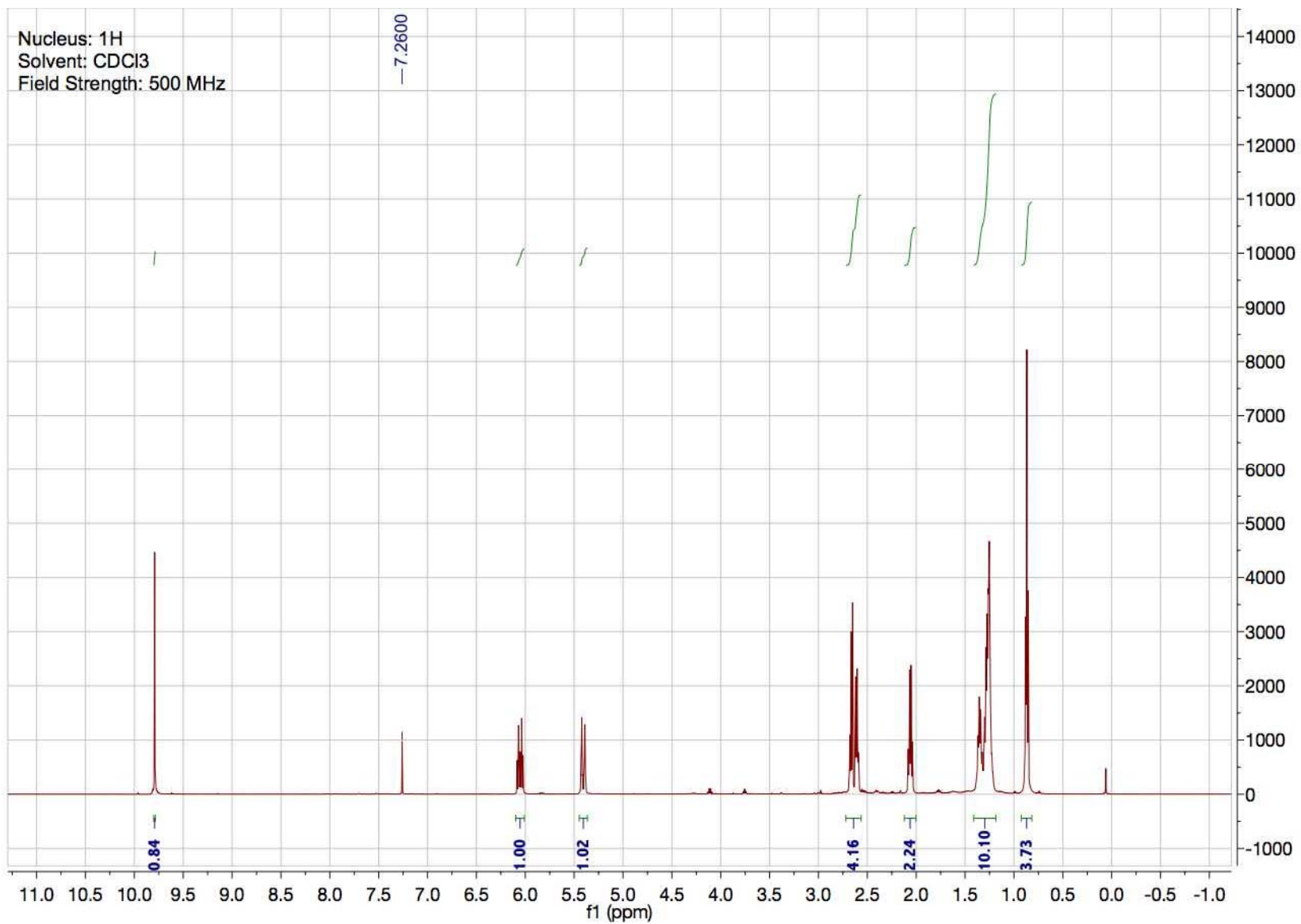


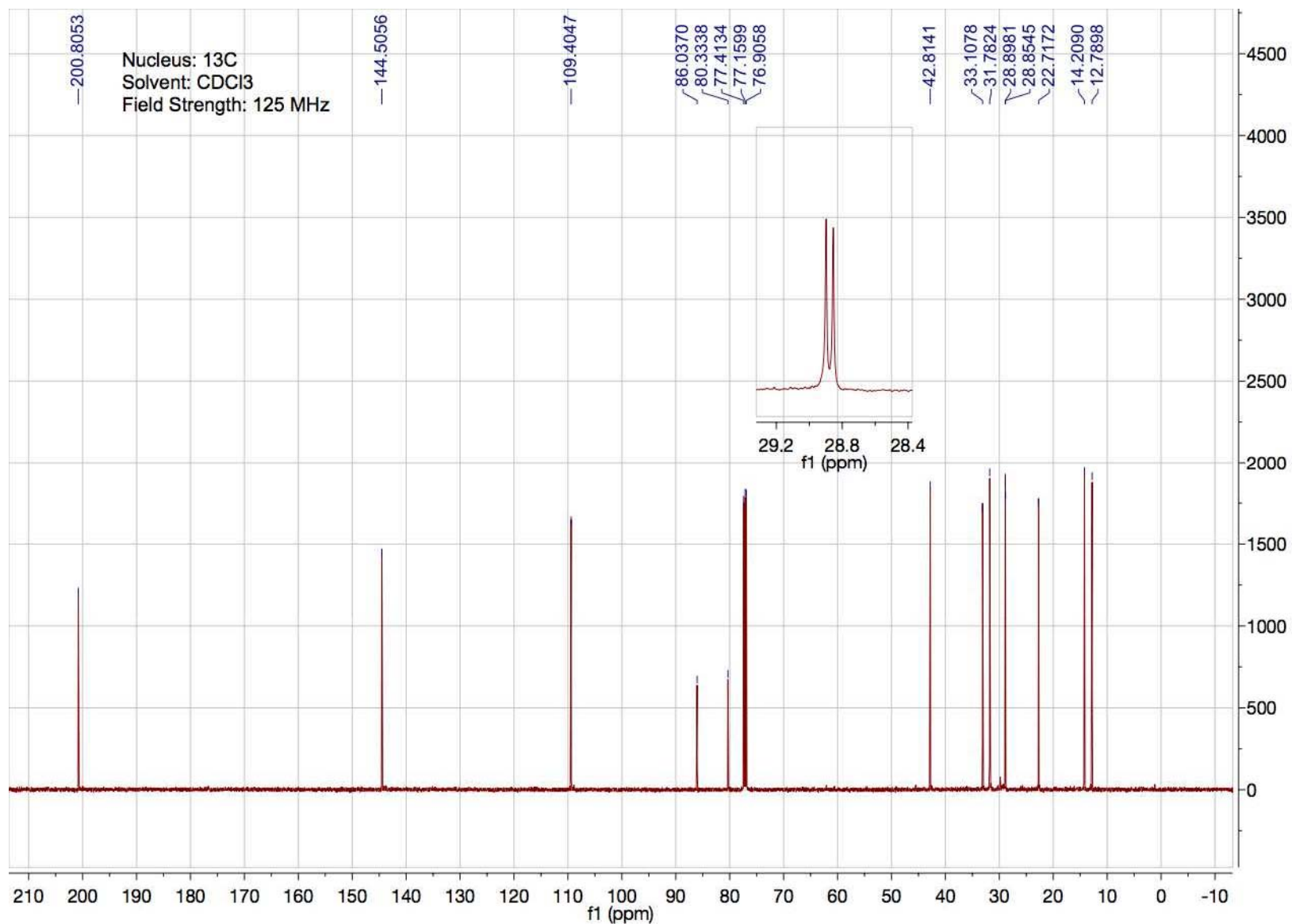
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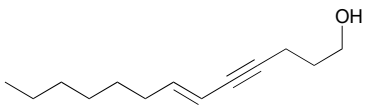
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9m



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