

-Supporting Information-

**DDQ-Promoted Mild and Efficient Metal-Free Oxidative α -Cyanation
of *N*-Acyl/Sulfonyl 1,2,3,4-Tetrahydroisoquinolines**

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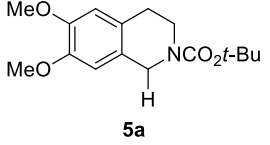
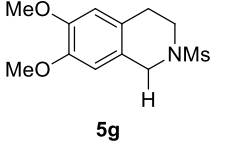
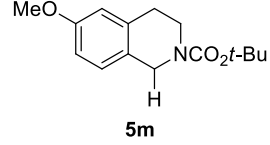
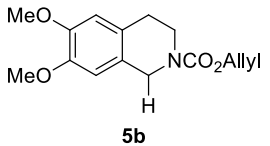
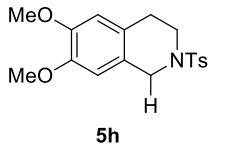
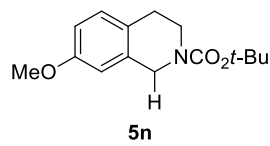
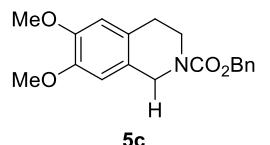
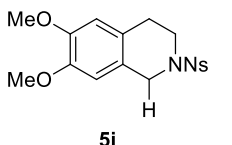
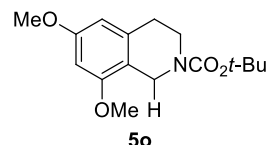
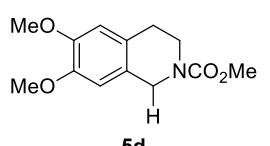
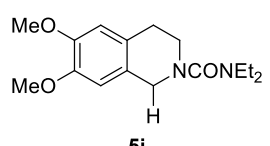
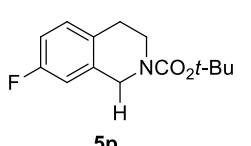
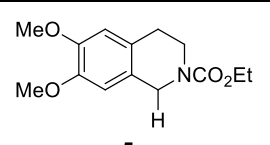
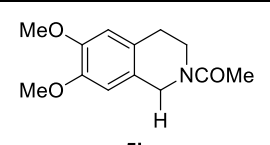
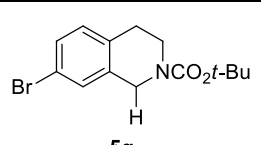
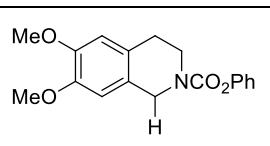
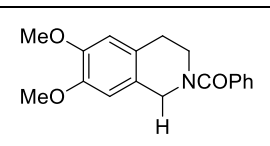
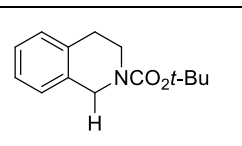
(S01-S52)
Copies of ¹H and ¹³C NMR

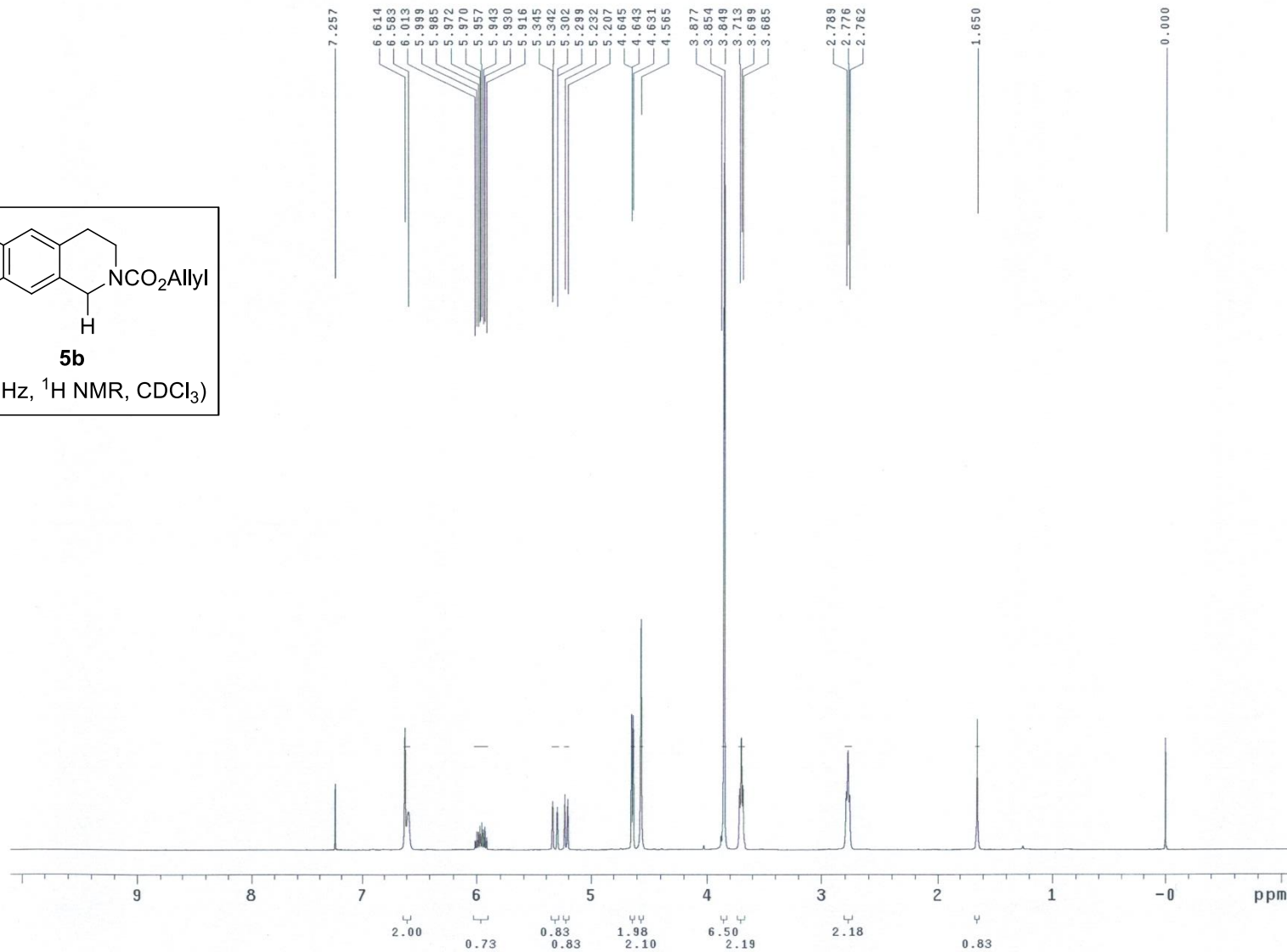
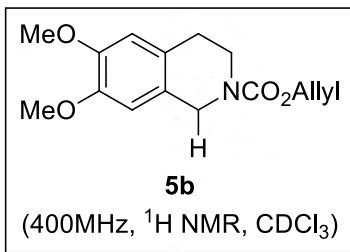
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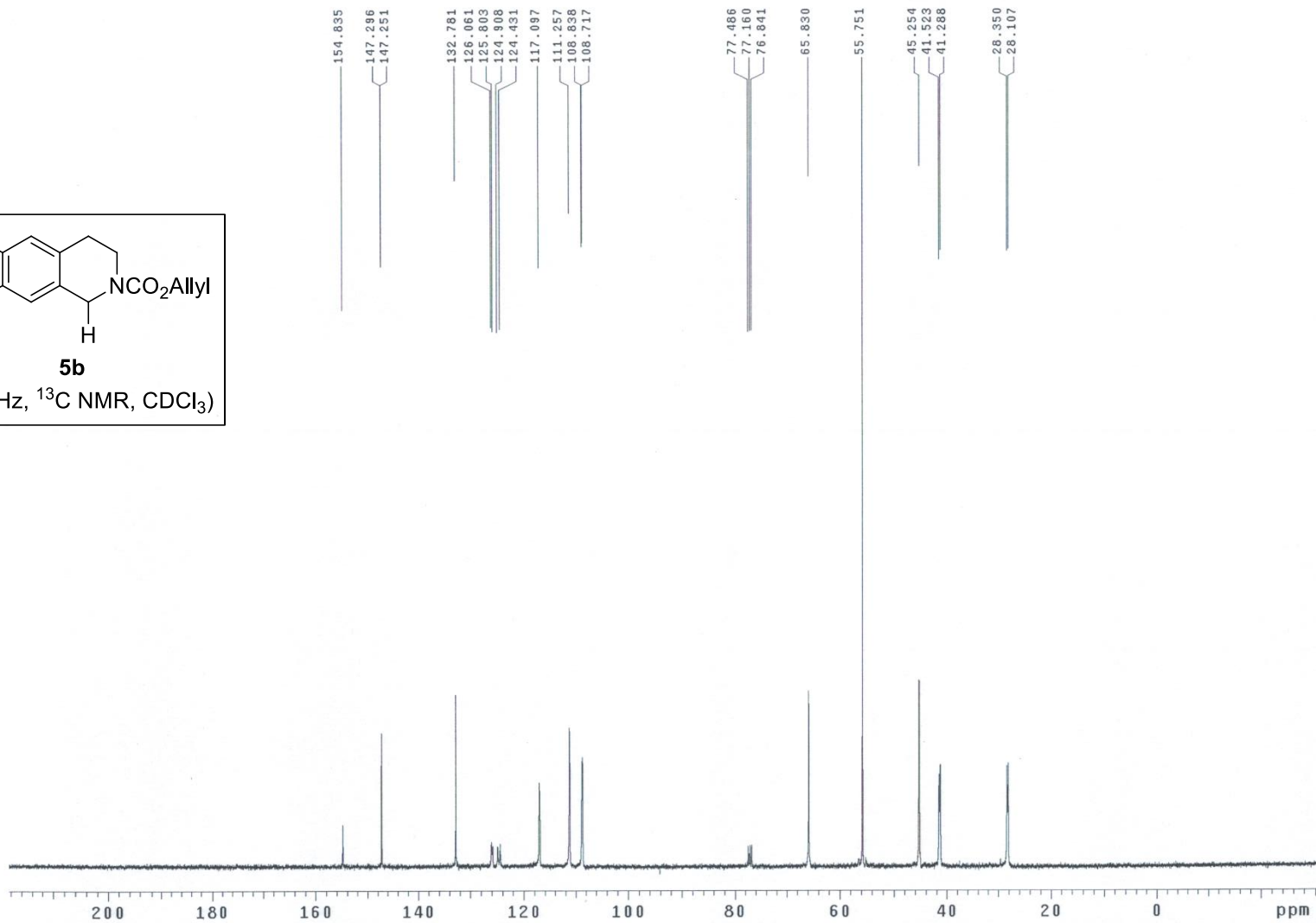
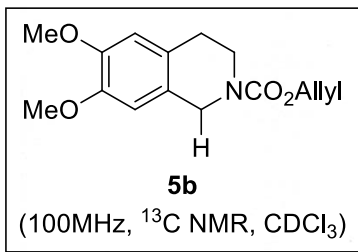
Compound 5b : ^1H NMR and ^{13}C NMR	S5-S6
Compound 5f : ^1H NMR and ^{13}C NMR	S7-S8
Compound 5i : ^1H NMR and ^{13}C NMR	S9-S10
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Compound ($\pm$)- 6a : ^1H NMR and ^{13}C NMR	S15-S16
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Compound ($\pm$)- 6d : ^1H NMR and ^{13}C NMR	S21-S22
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Compound (±)- 6h : ^1H NMR and ^{13}C NMR	S29-S30
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Compound (±)- 6r : ^1H NMR and ^{13}C NMR	S49-S50
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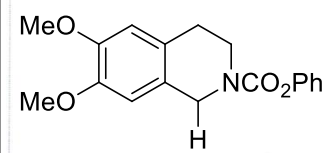
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 5b	Unknown	 5h	<i>Tetrahedron Lett.</i> 2010 , 51, 435-438	 5n	<i>Bioorg. Med. Chem.</i> 2008 , 16, 2499-2512
 5c	<i>Chem. Commun.</i> 2005 , 41, 4465-4467	 5i	Unknown	 5o	<i>Adv. Synth. Catal.</i> 2016 , 358, 4049-4056
 5d	<i>Bioorg. Med. Chem.</i> 2004 , 12, 871-882	 5j	Unknown	 5p	Unknown
 5e	<i>Helv. Chim. Acta</i> 1980 , 63, 938-961	 5k	<i>Bioorg. Med. Chem. Lett.</i> 2010 , 20, 4999-5003	 5q	<i>Bioorg. Med. Chem. Lett.</i> 2018 , 28, 3050-3056
 5f	Unknown	 5l	<i>Synthetic Commun.</i> 1992 , 22, 3235-3242	 5r	<i>J. Org. Chem.</i> 2011 , 76, 6703-6714





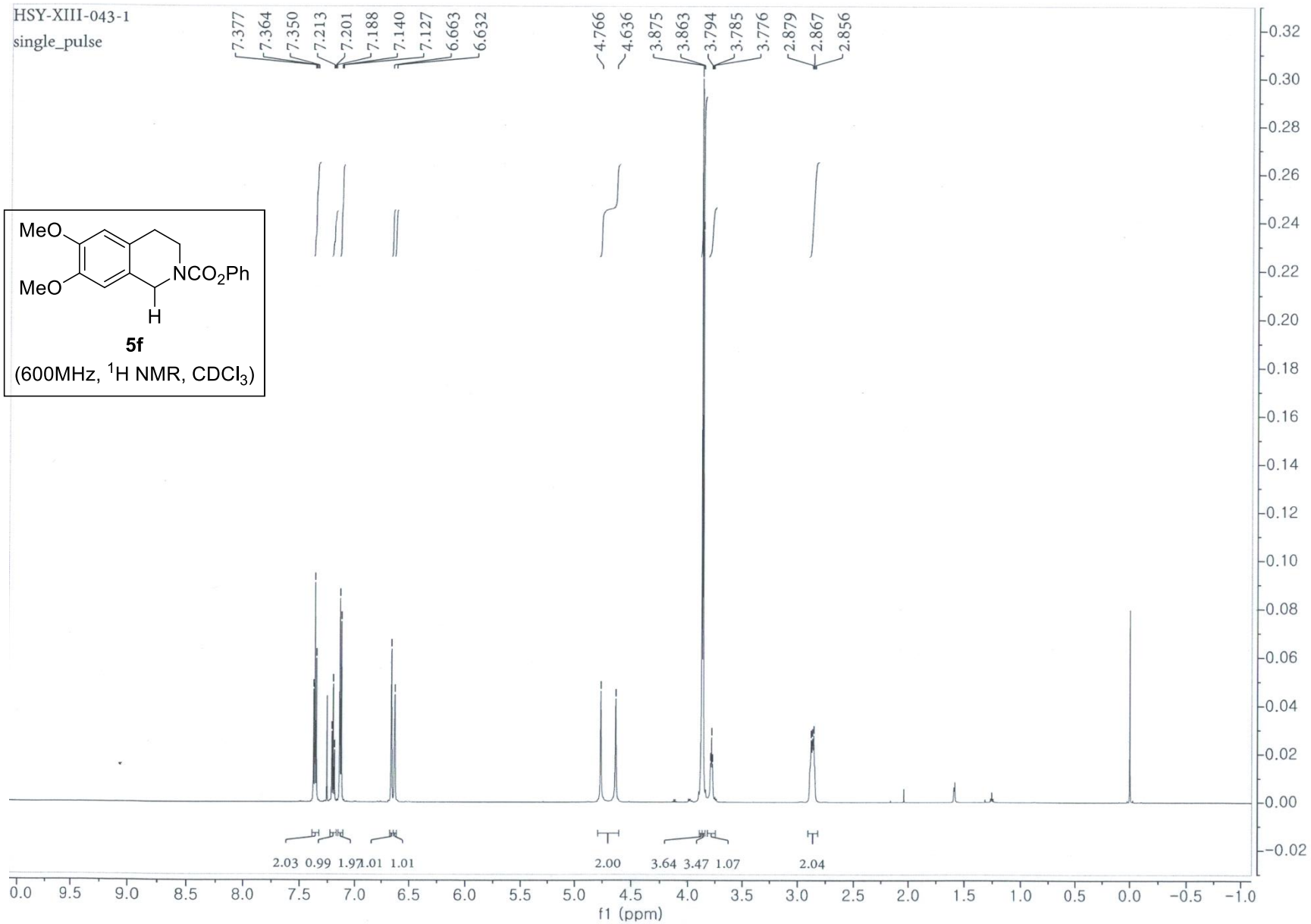
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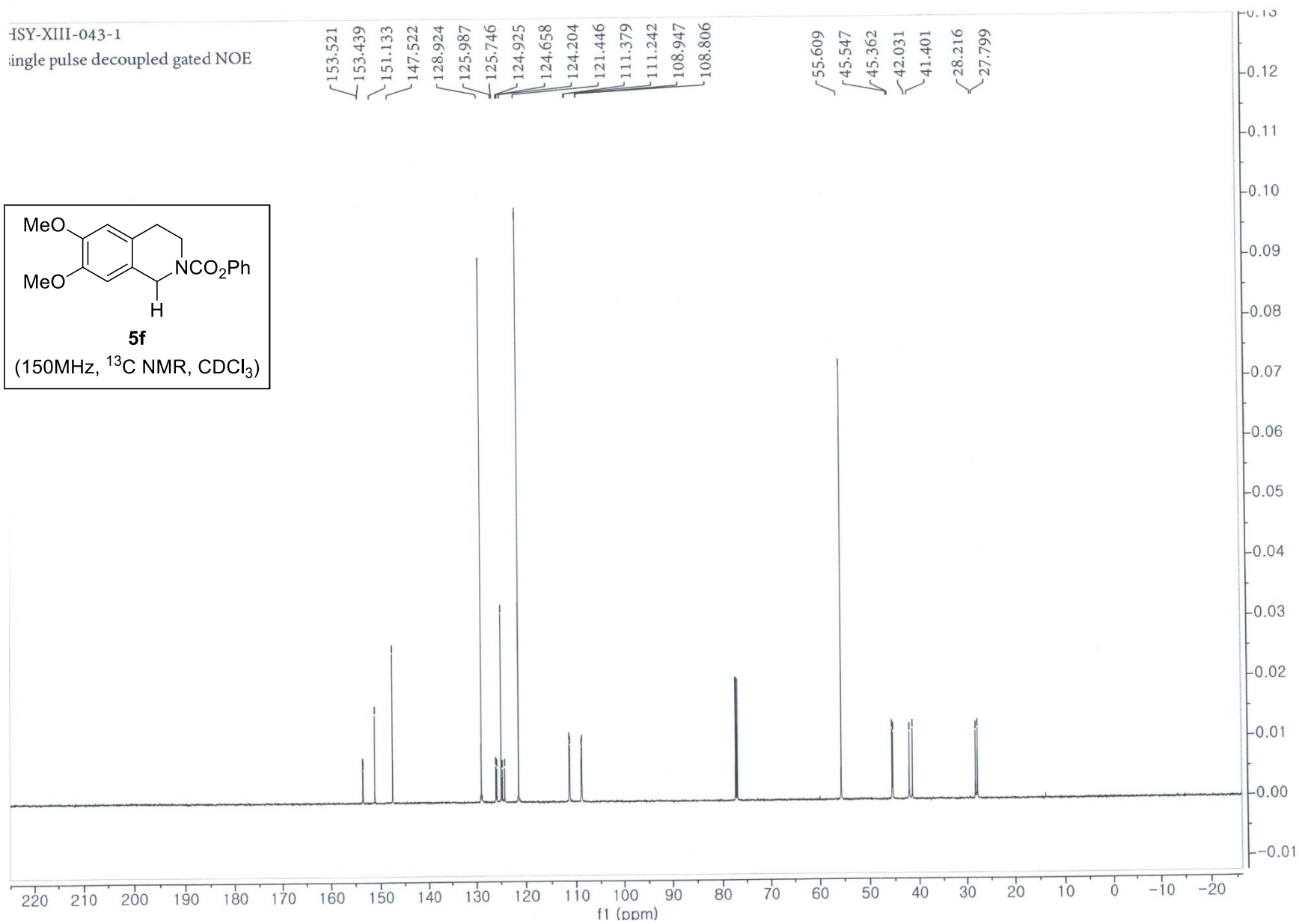
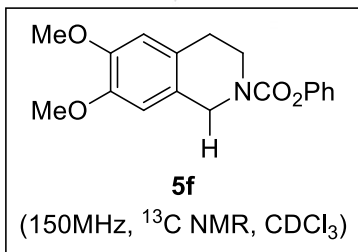
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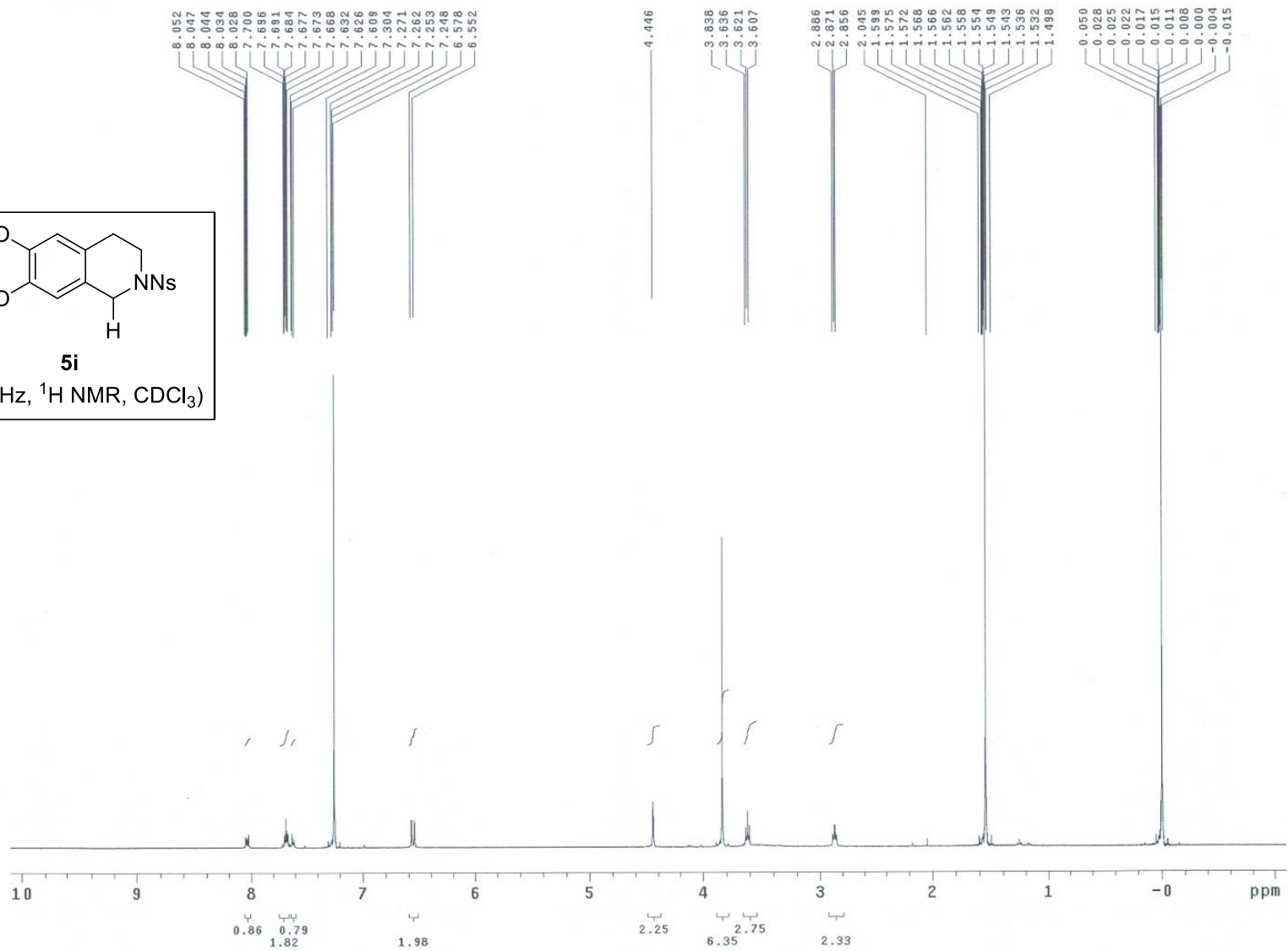
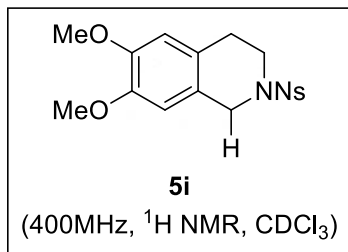


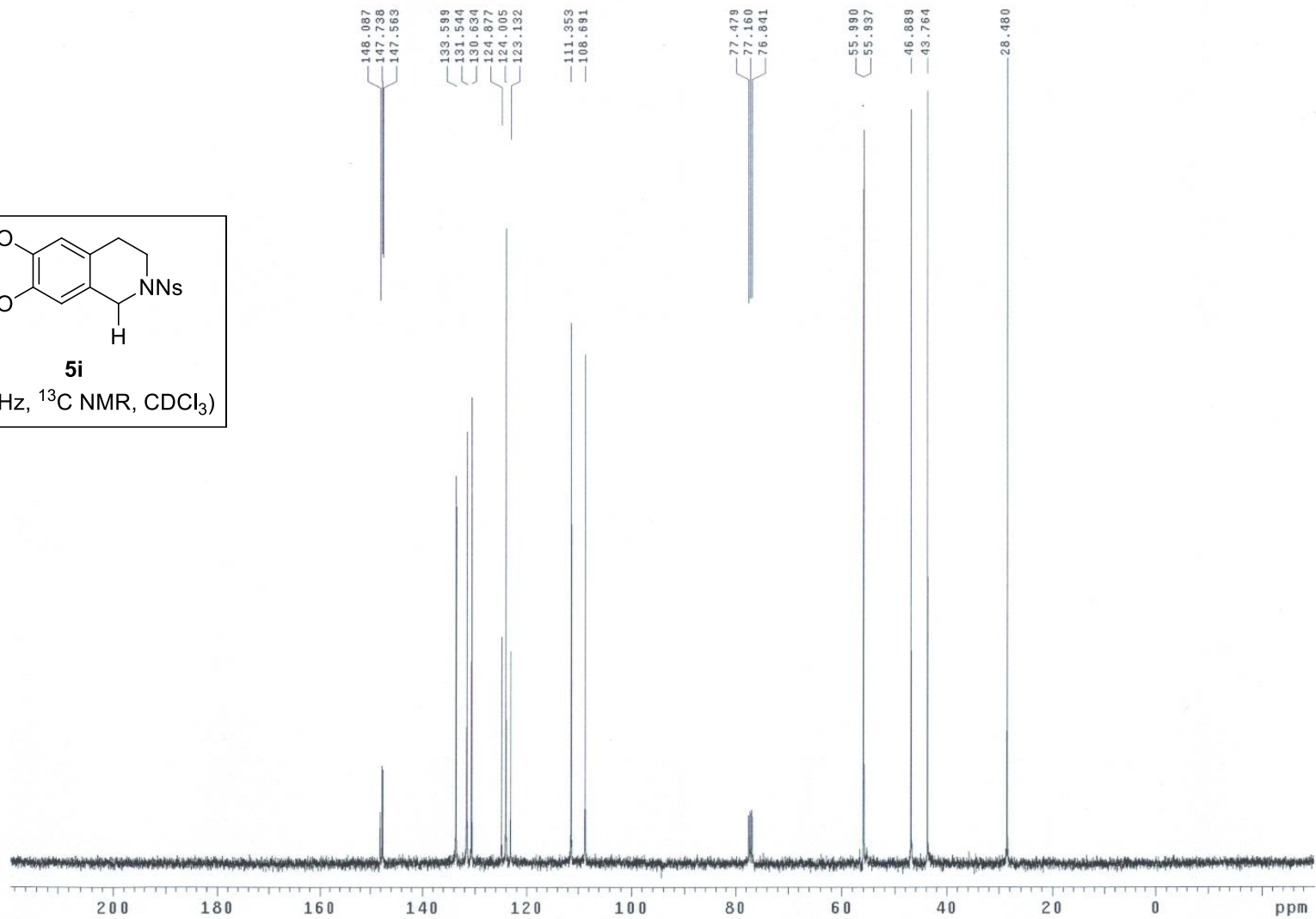
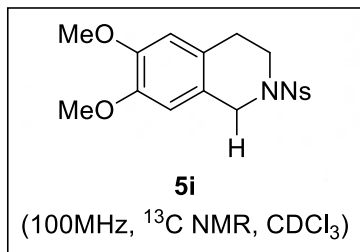
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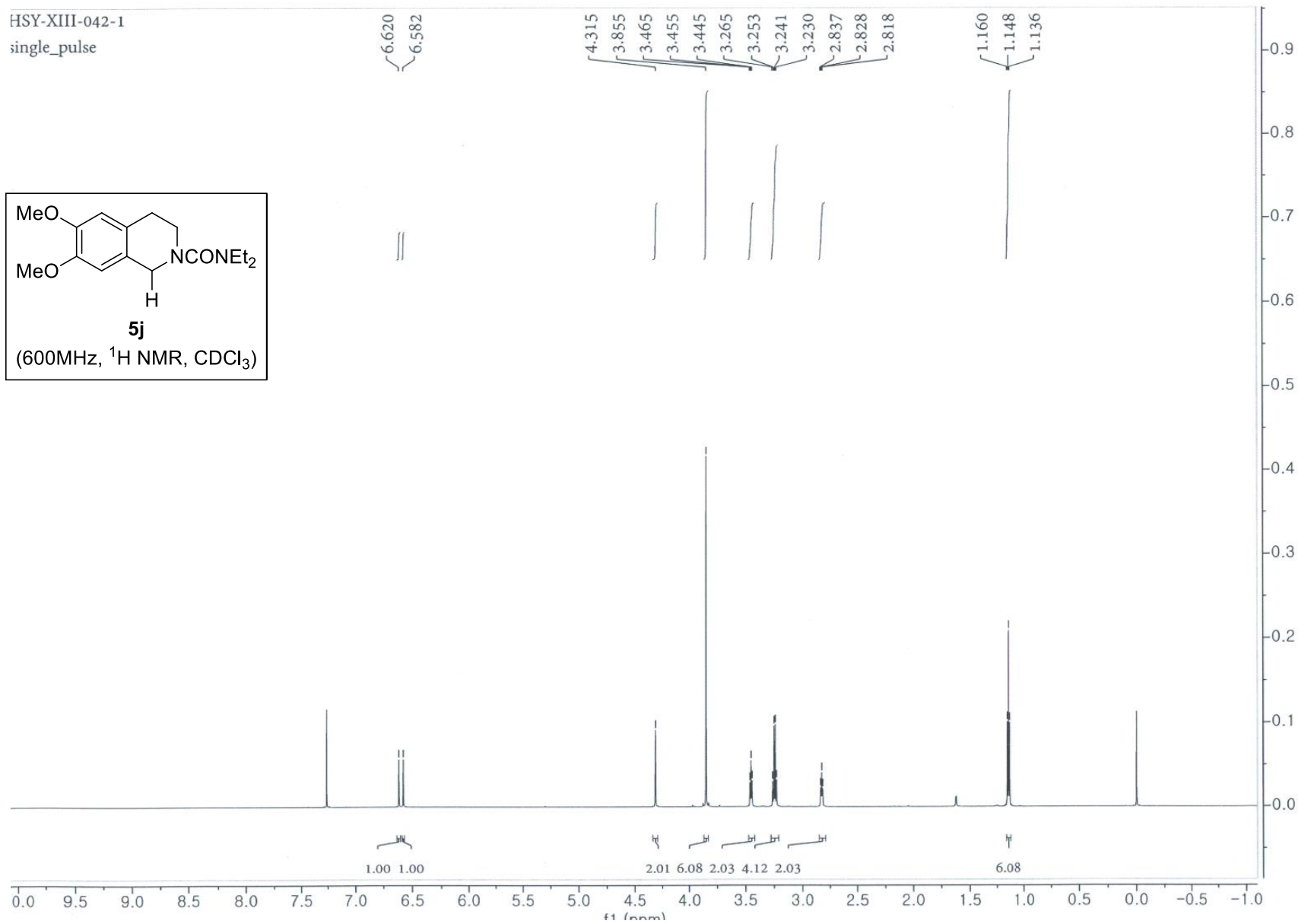
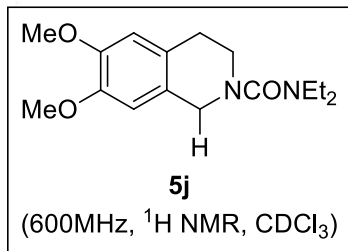






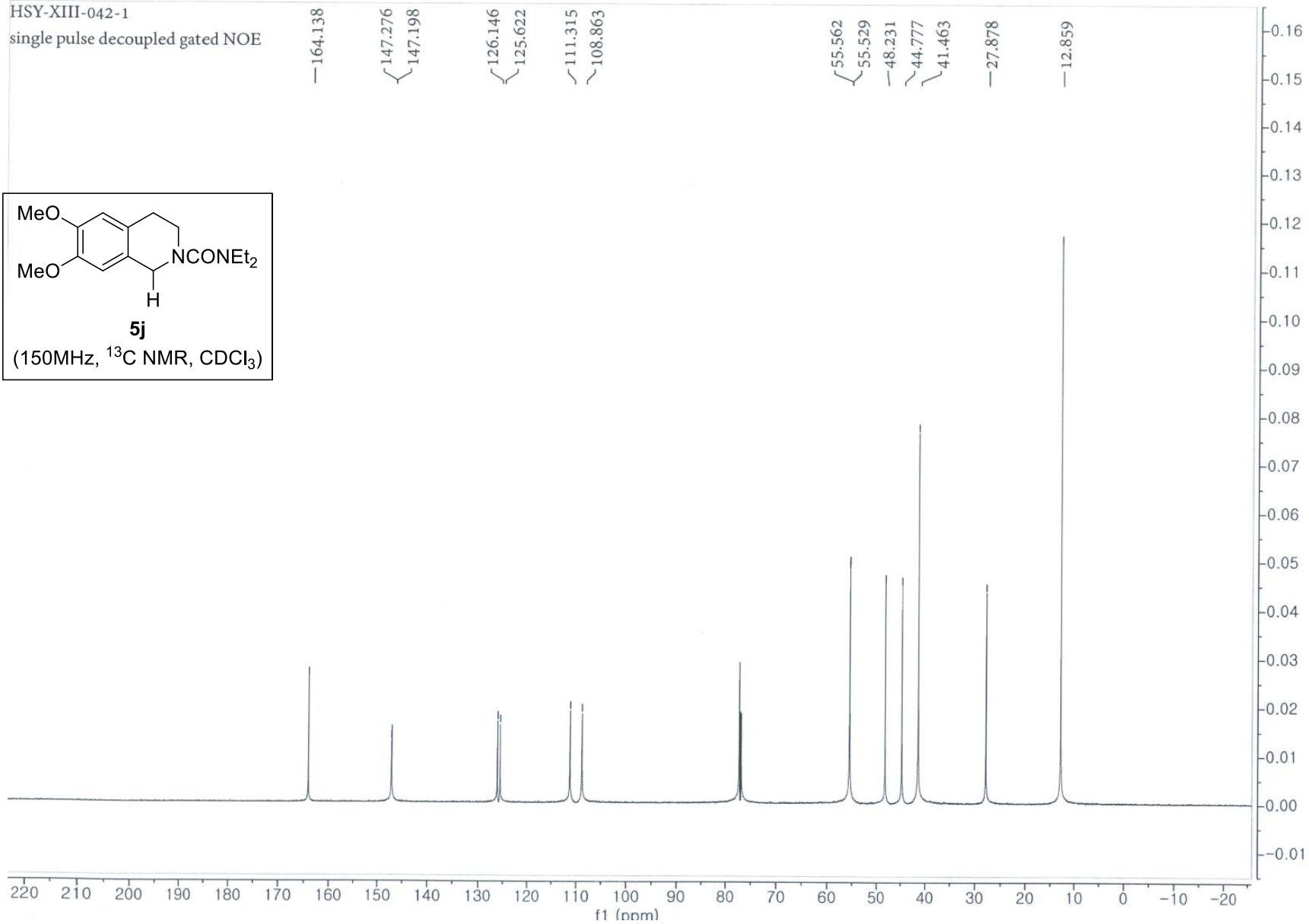
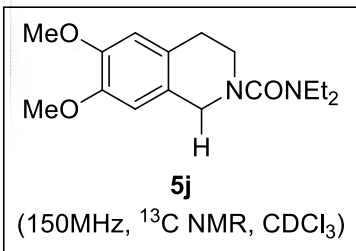
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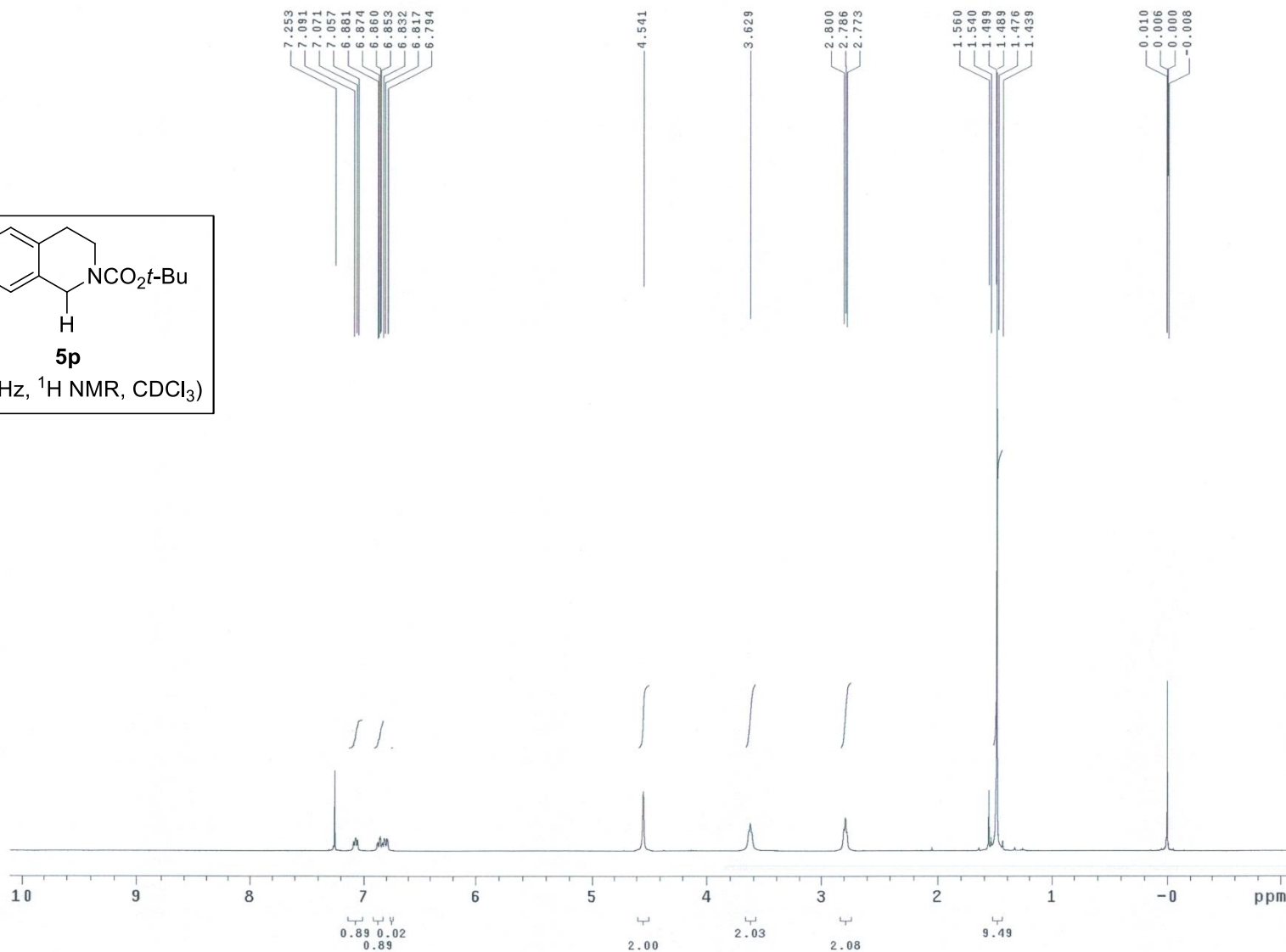
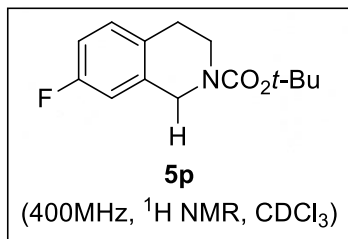
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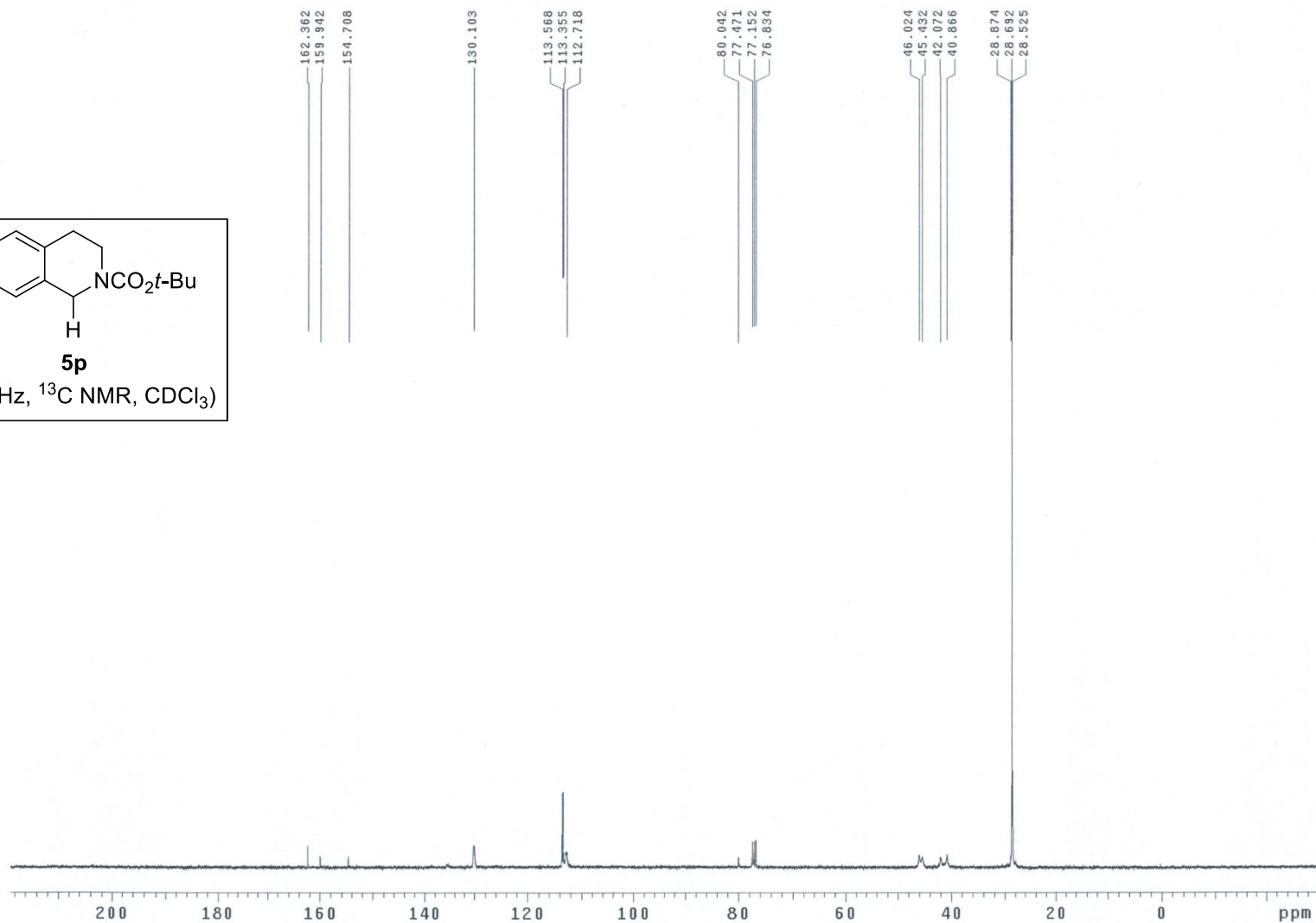
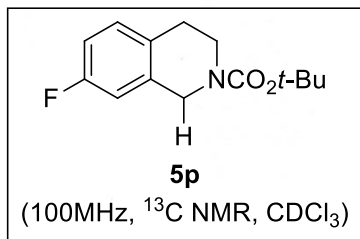


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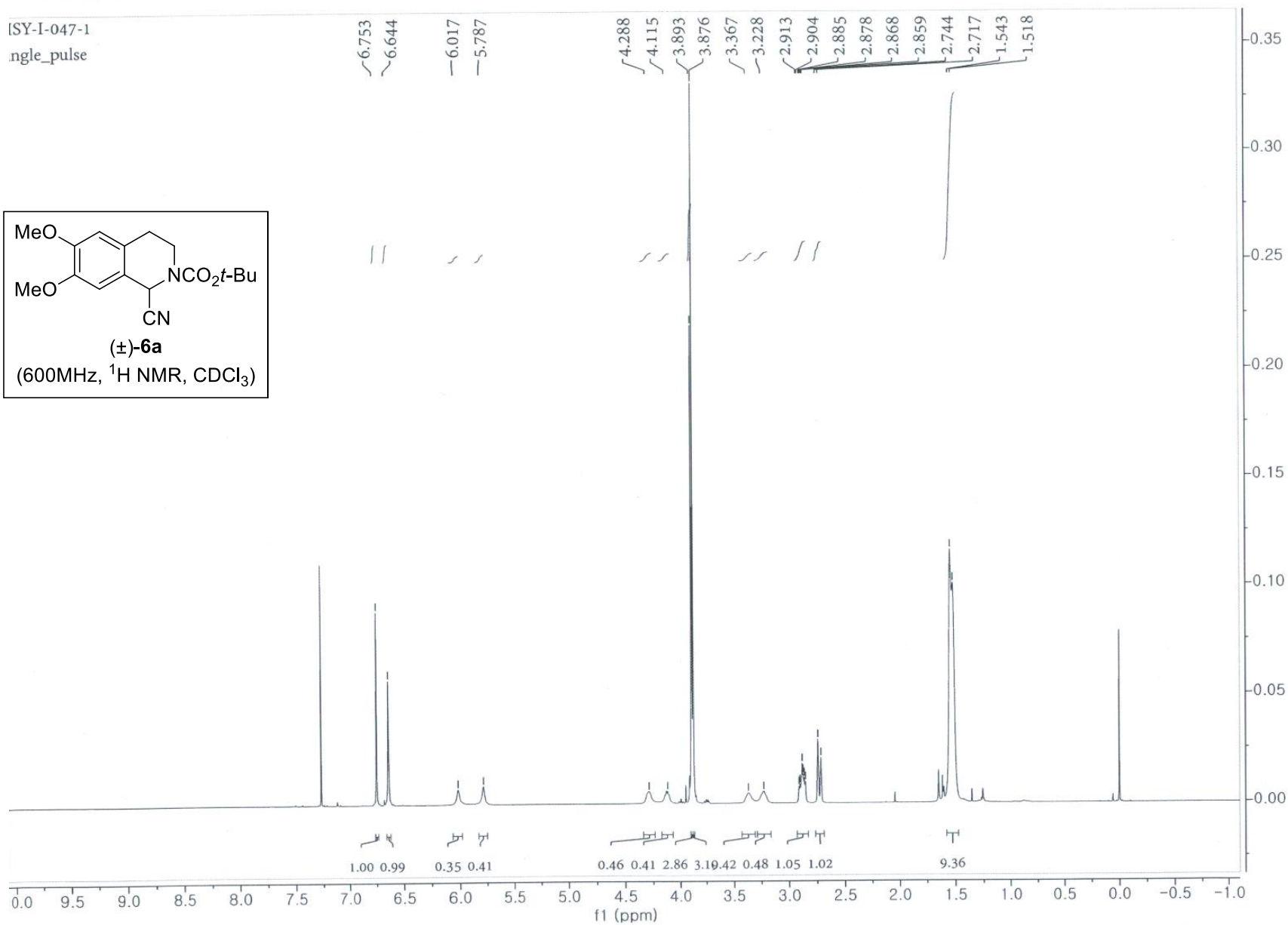
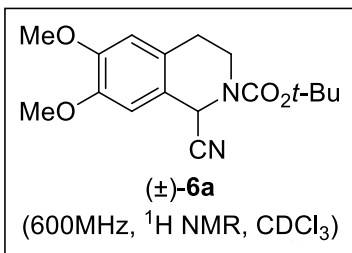
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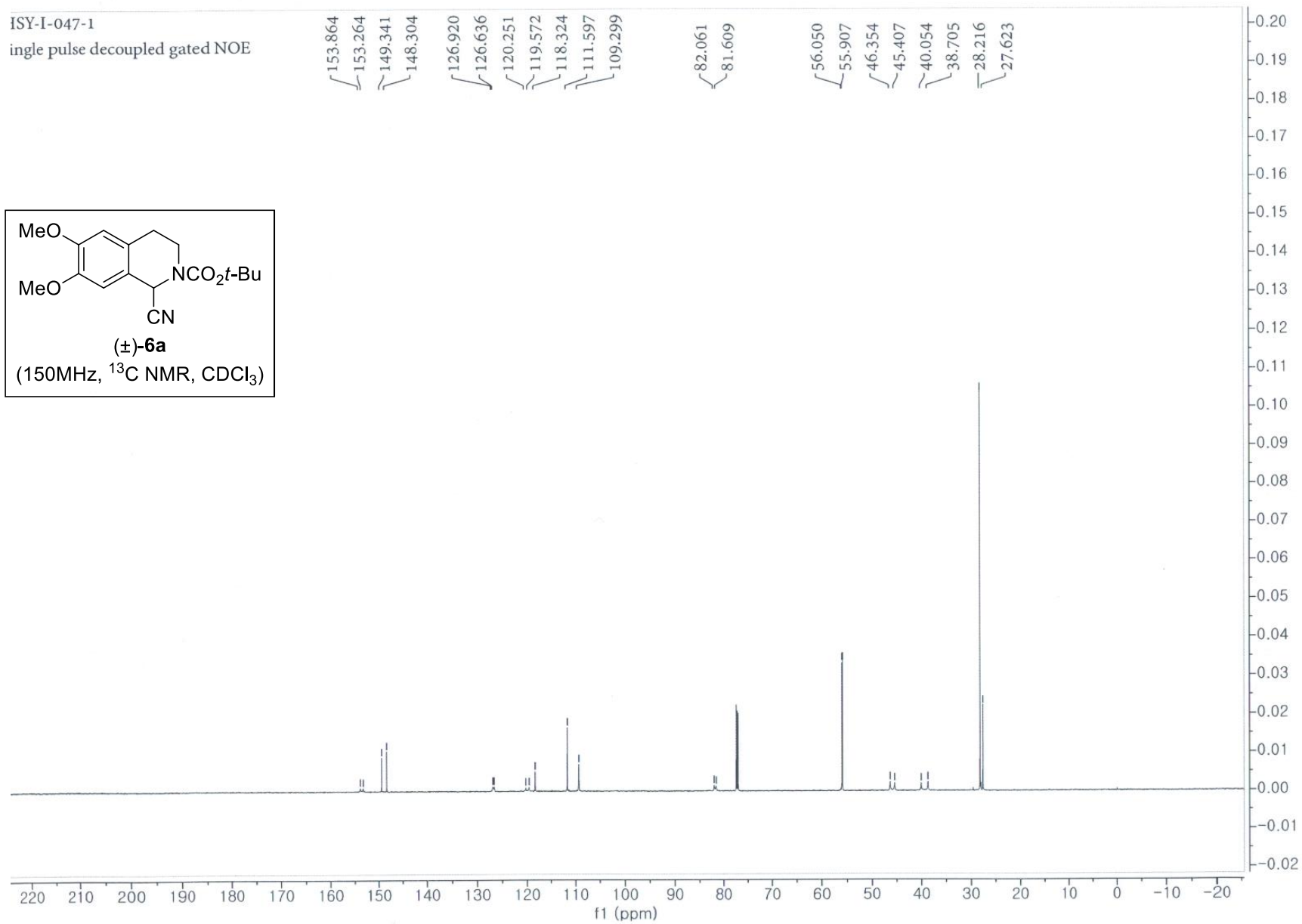
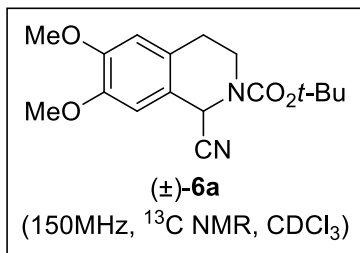


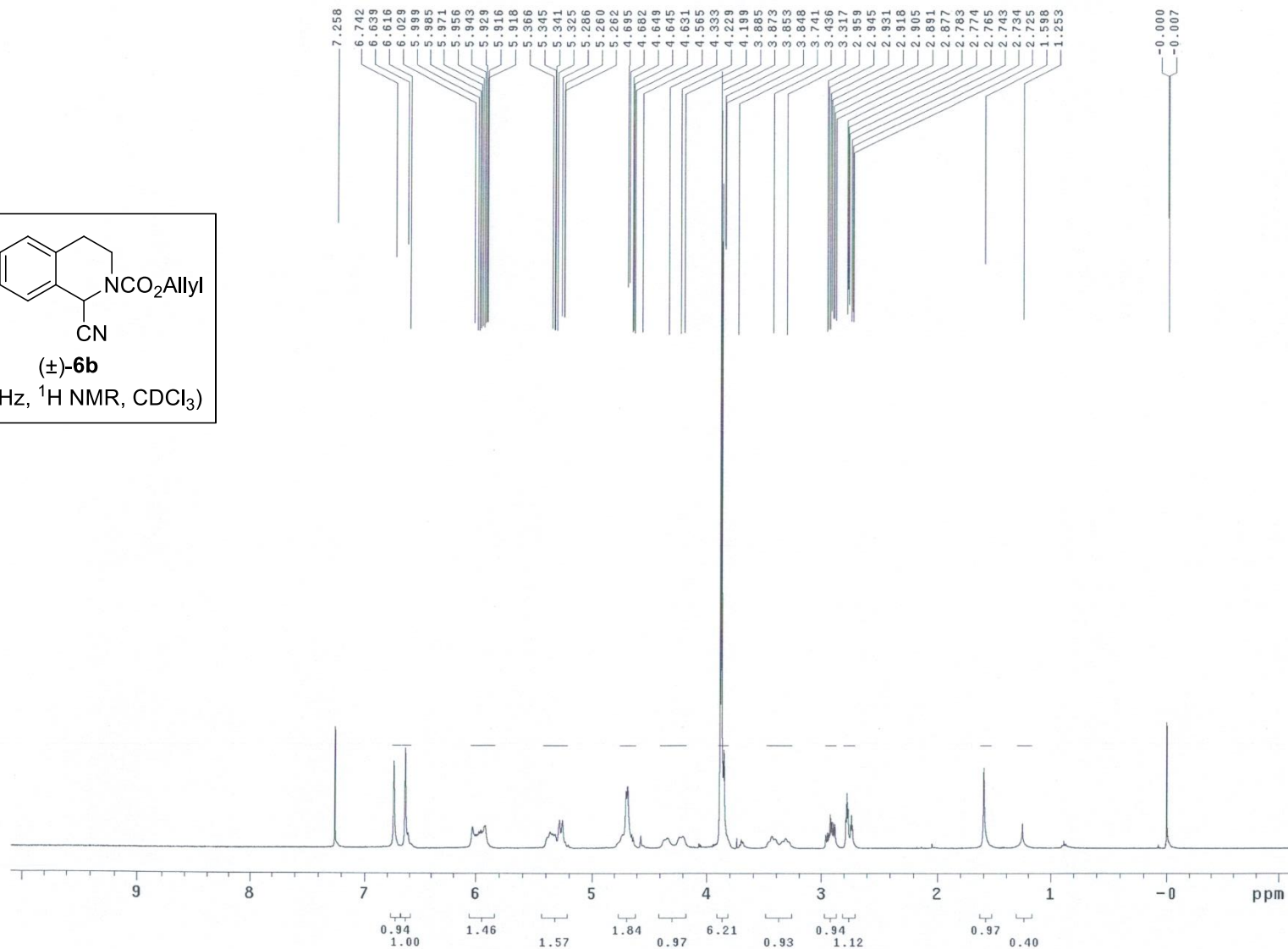
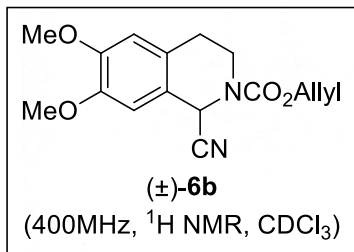
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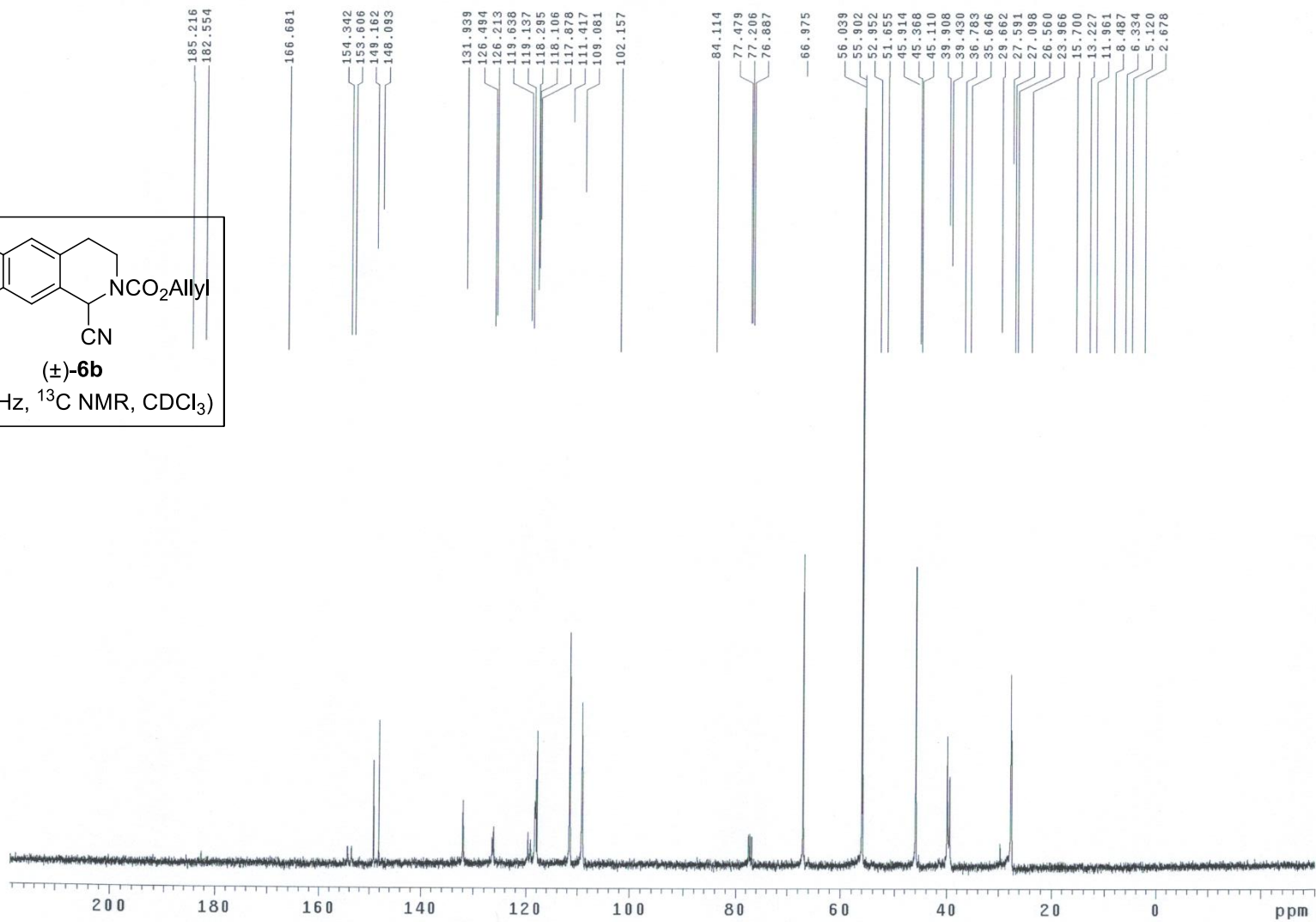
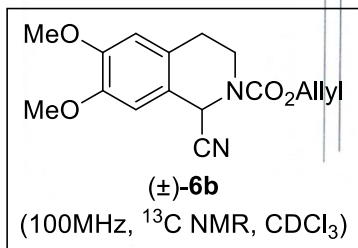


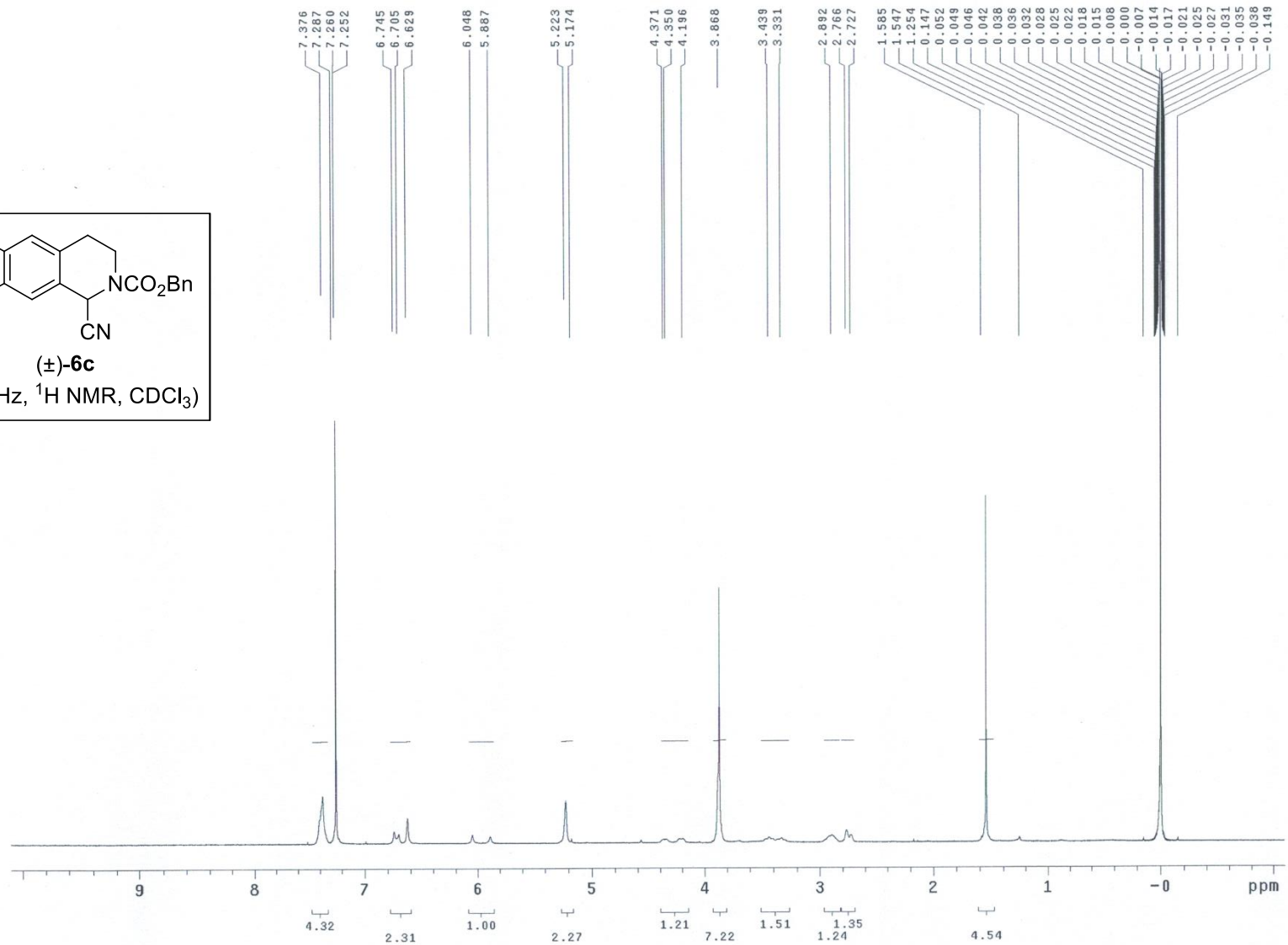
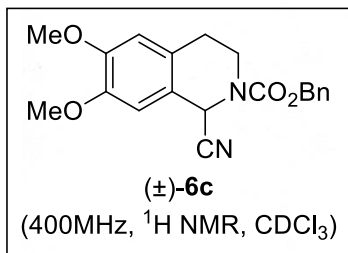
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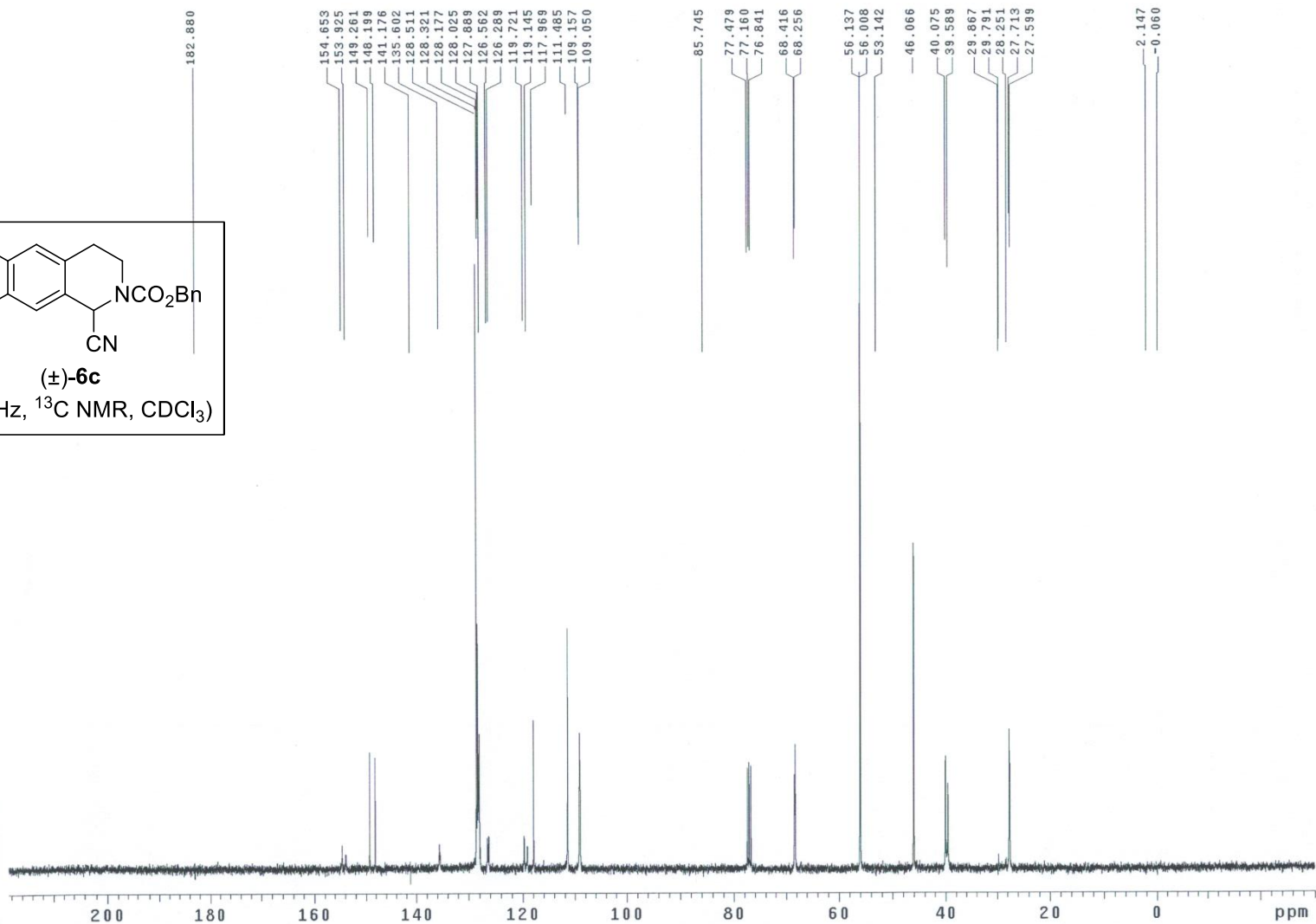
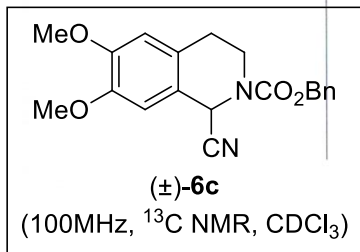
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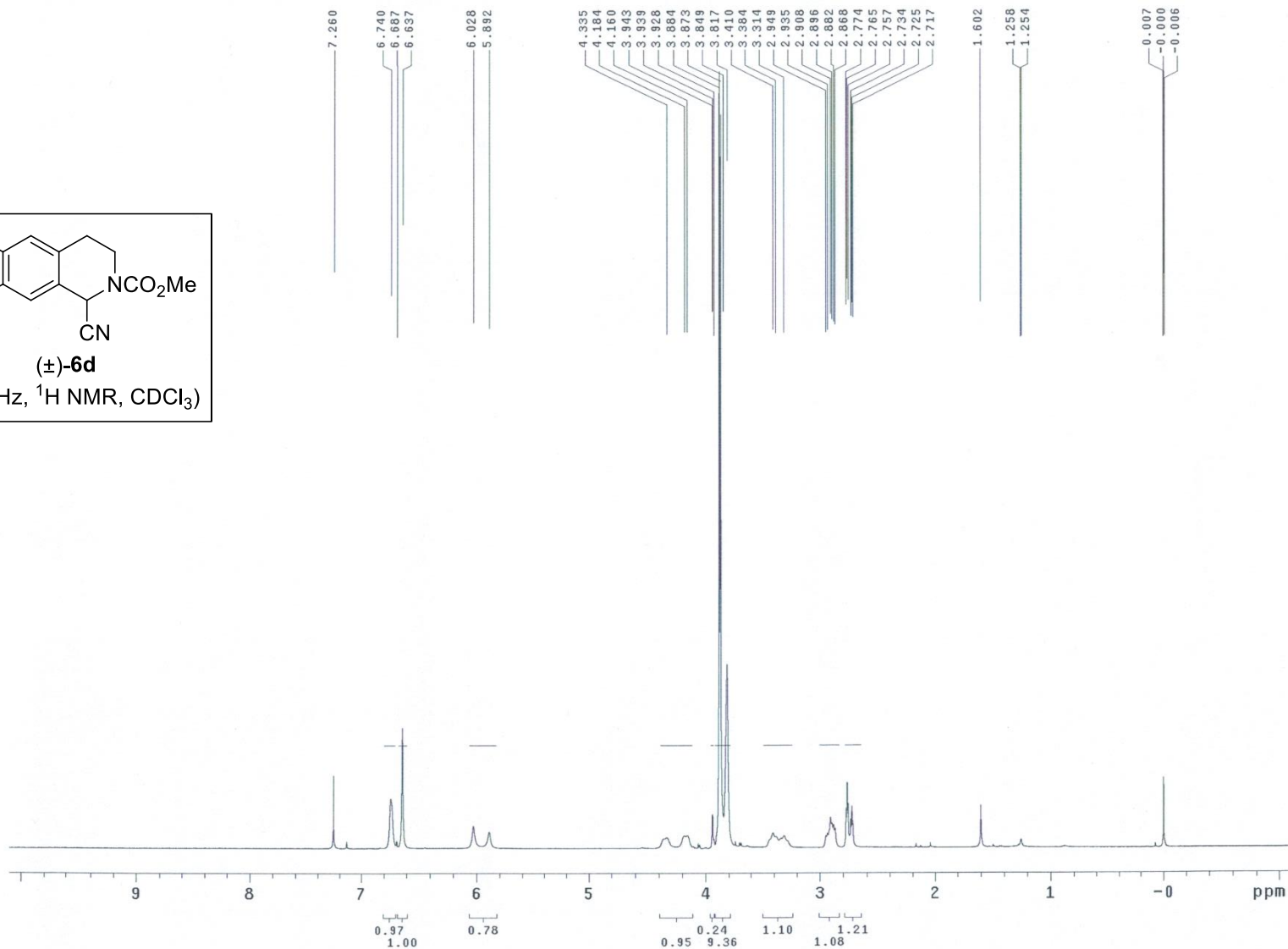
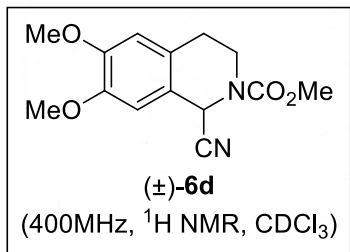


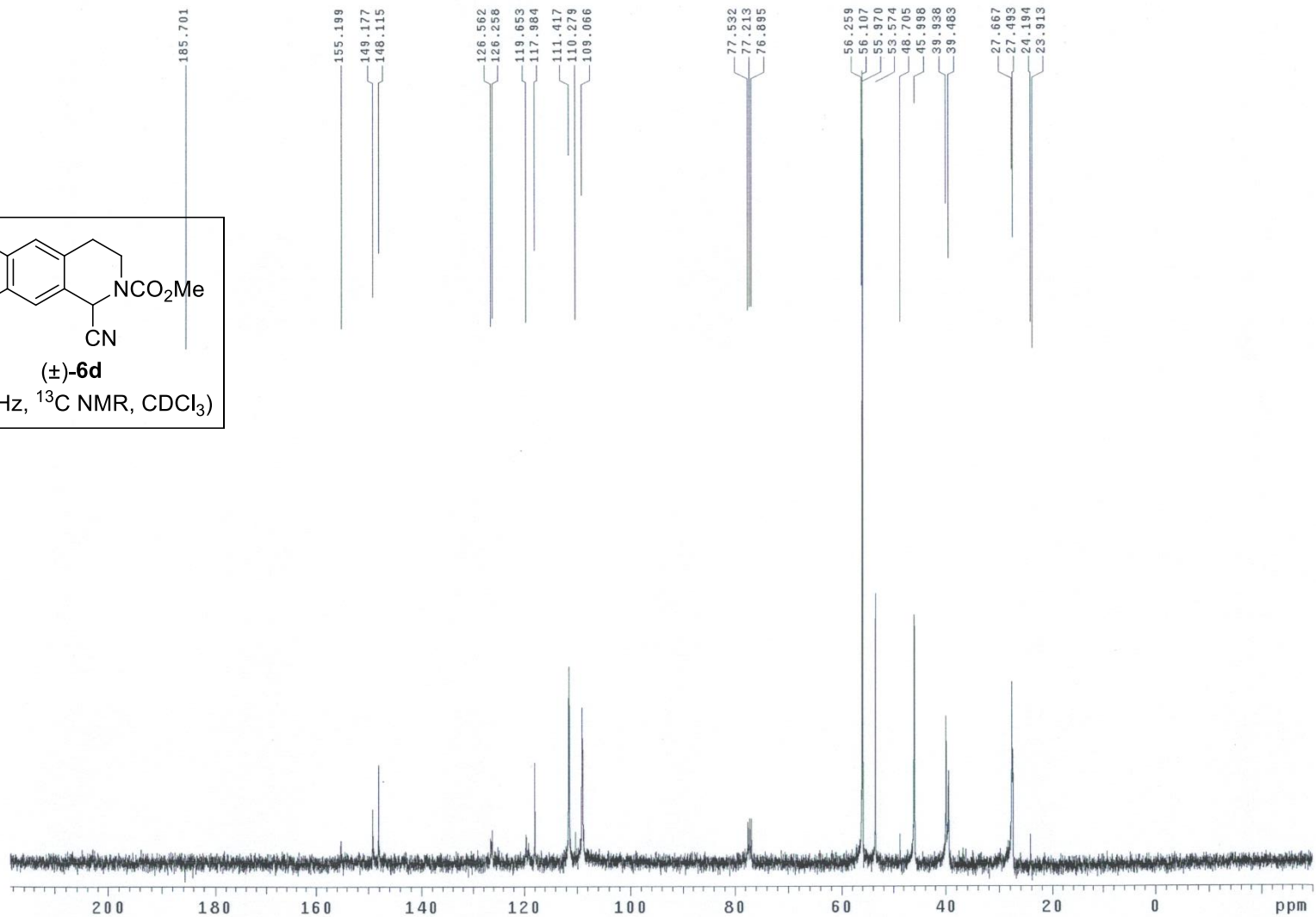
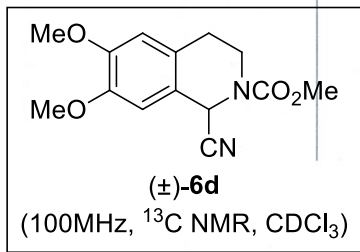


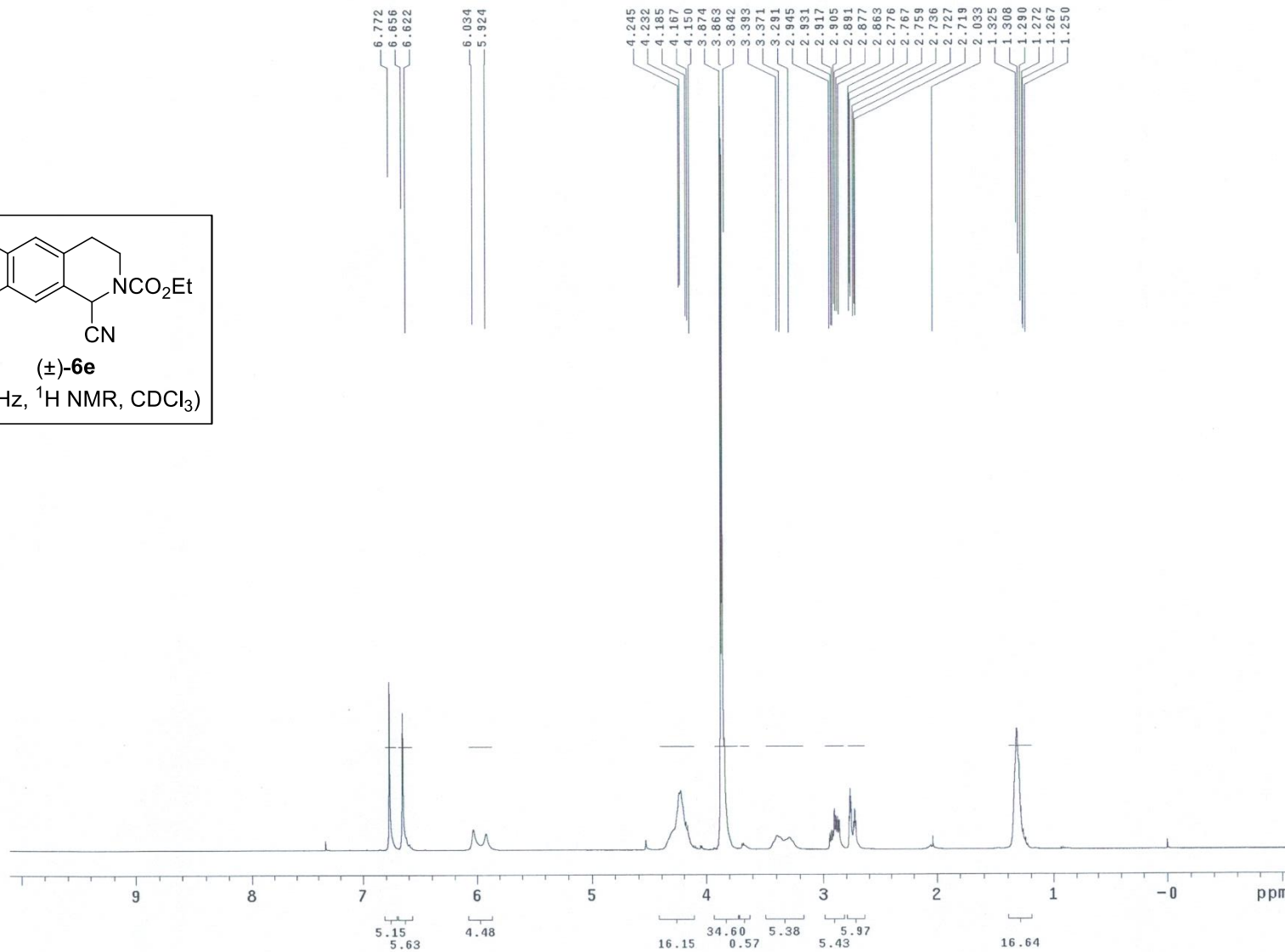
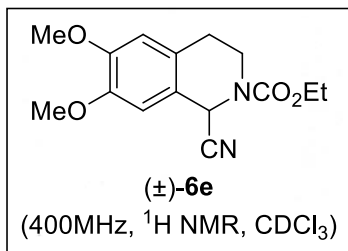


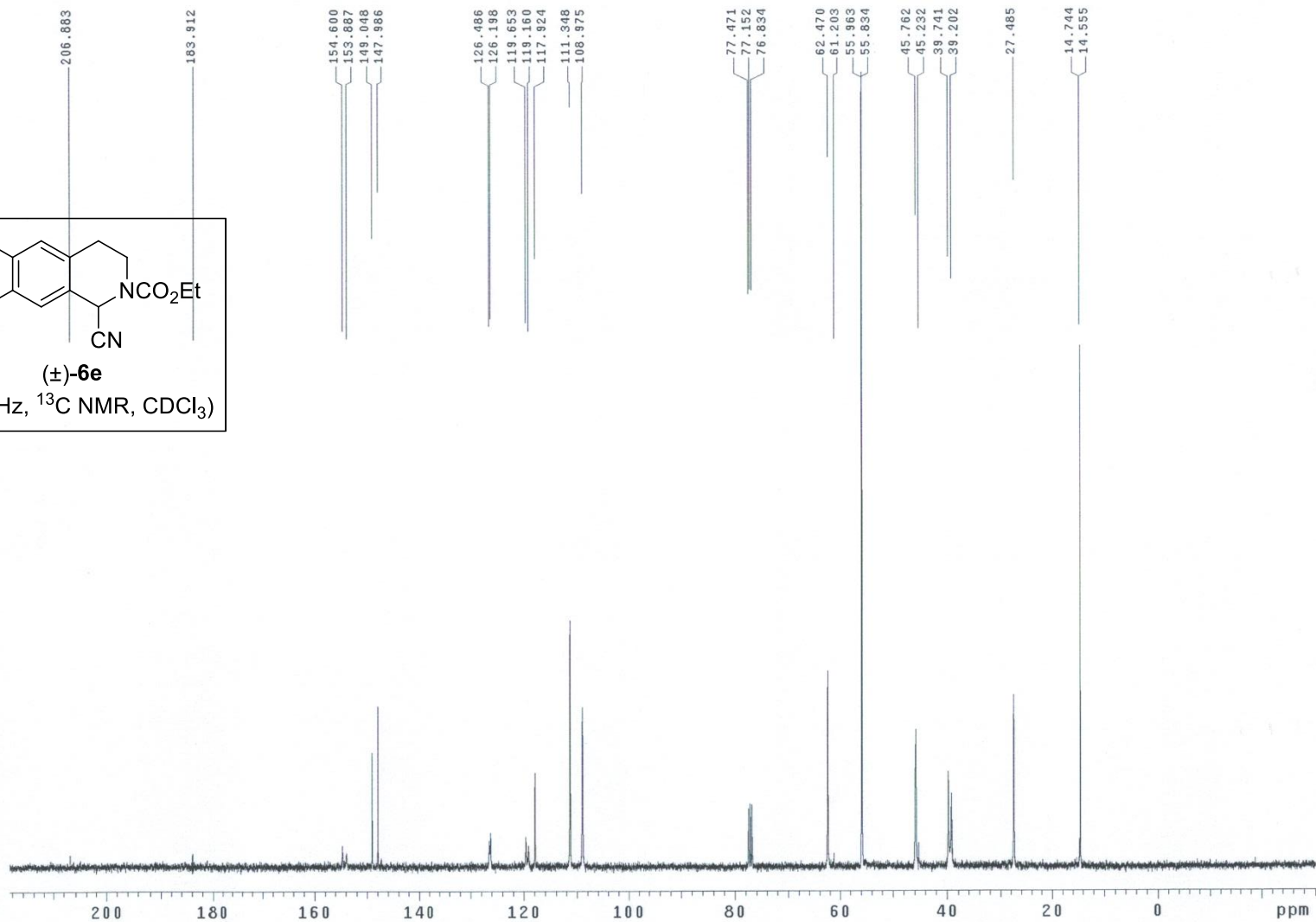
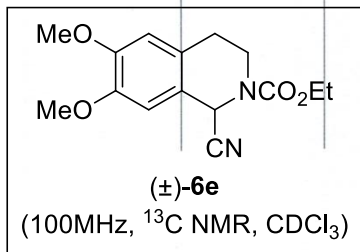




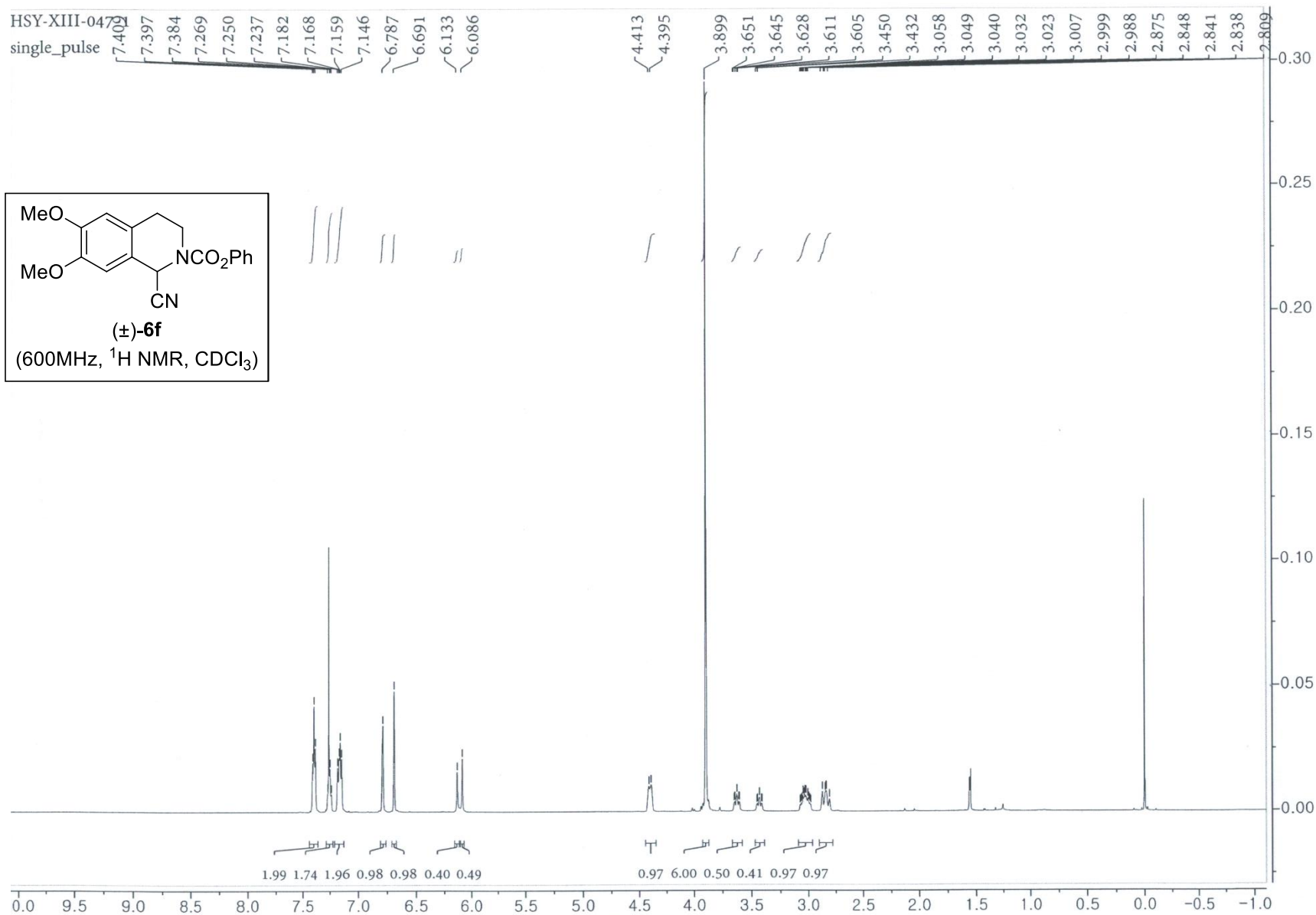
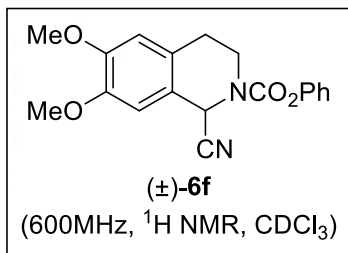






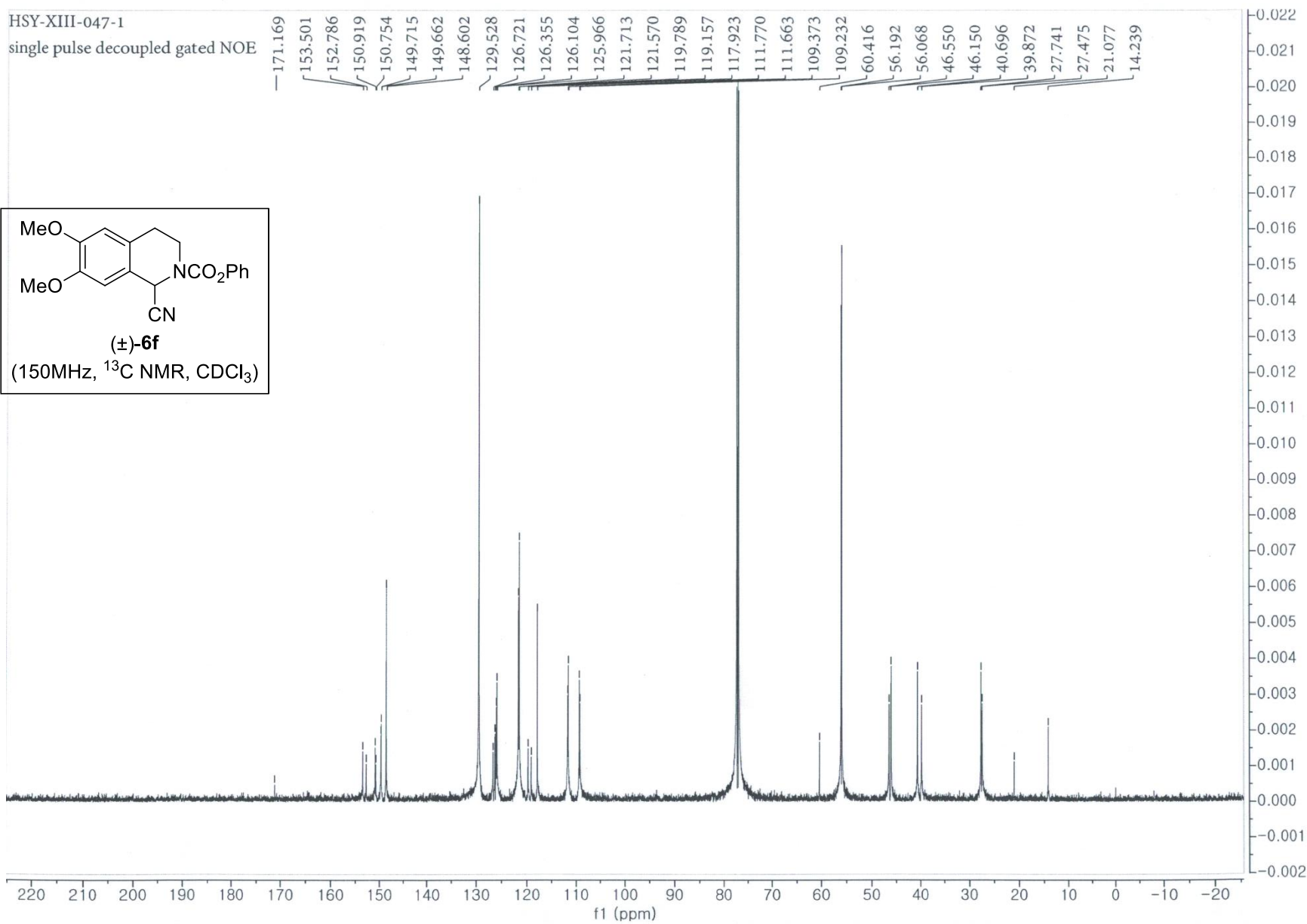
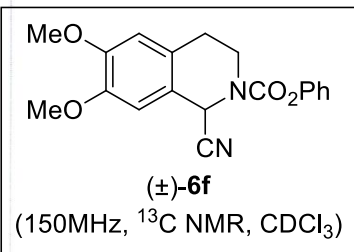


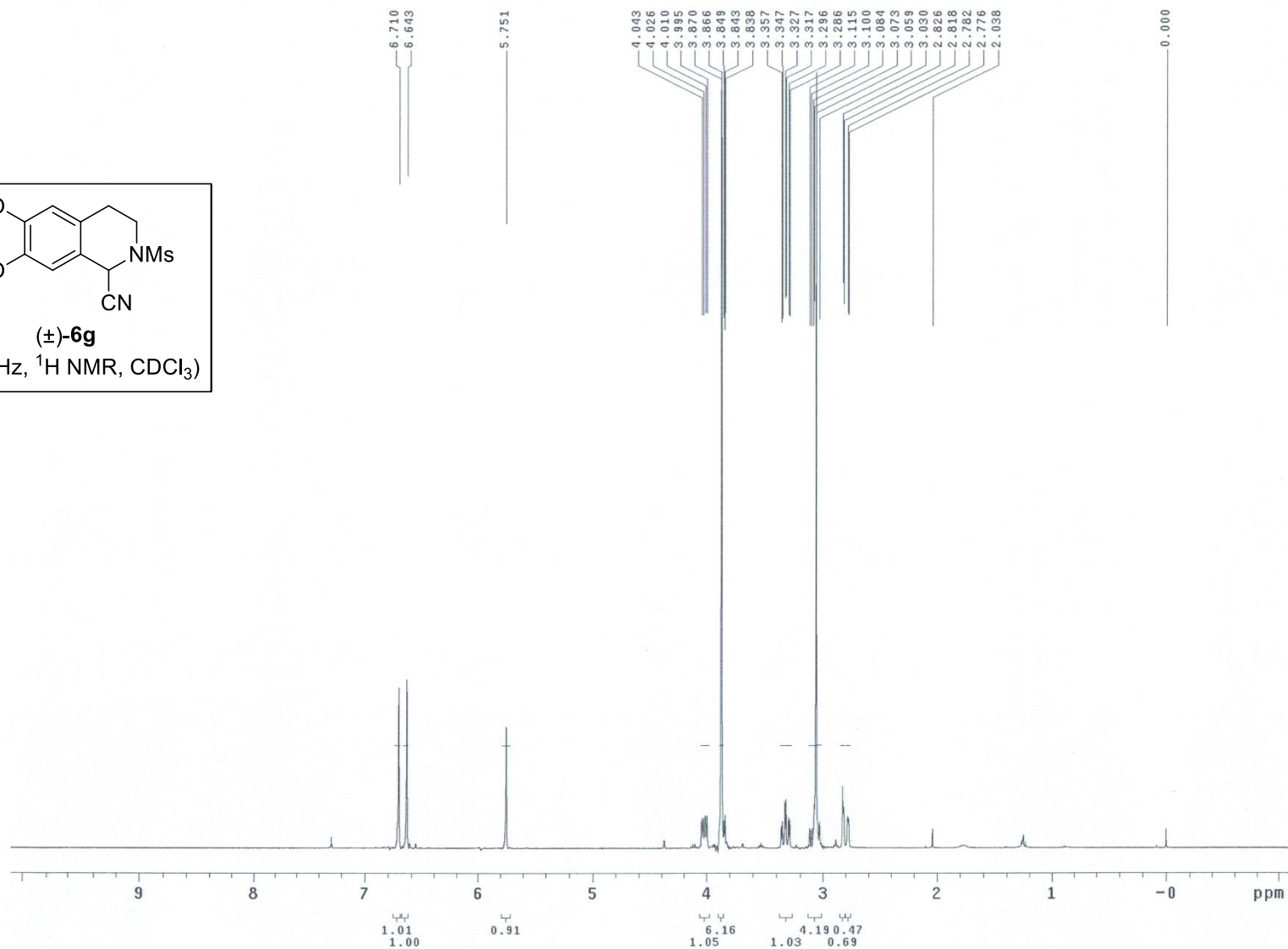
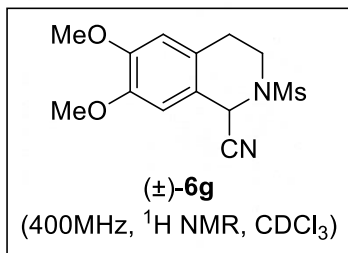
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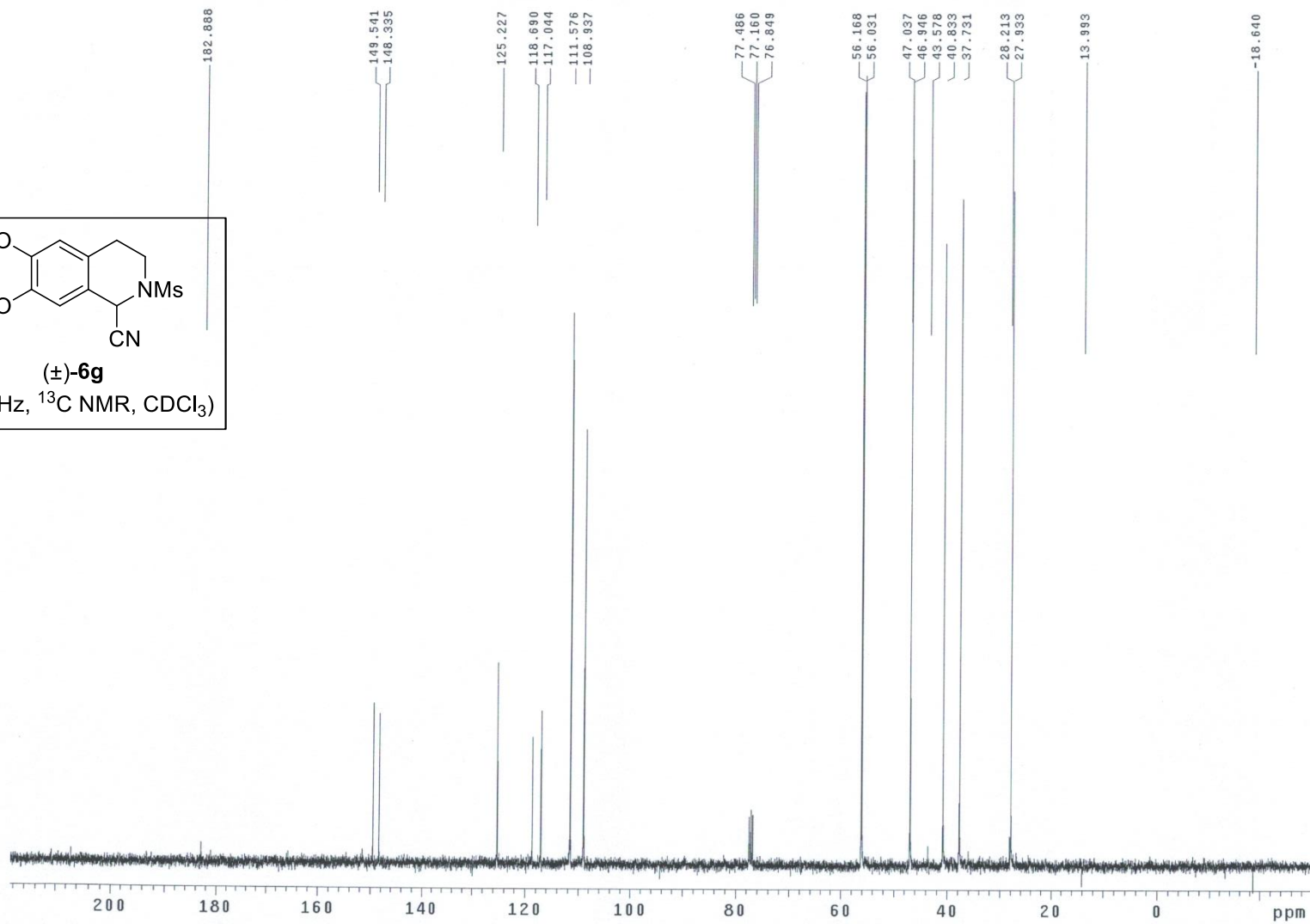
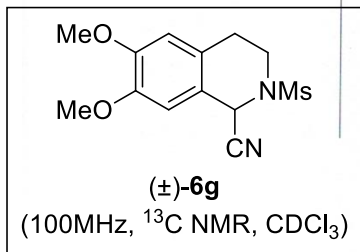


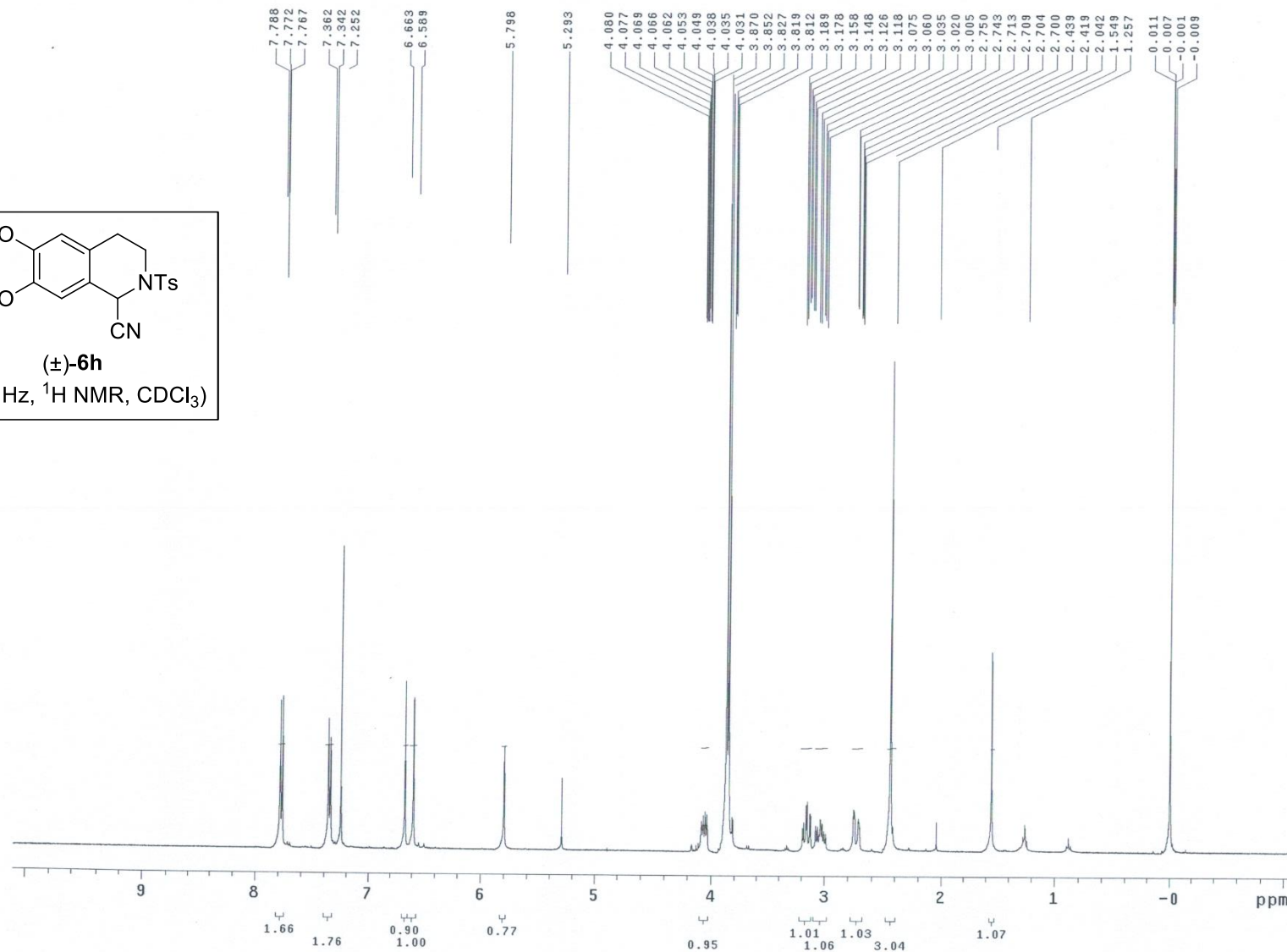
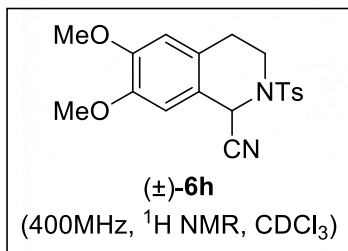
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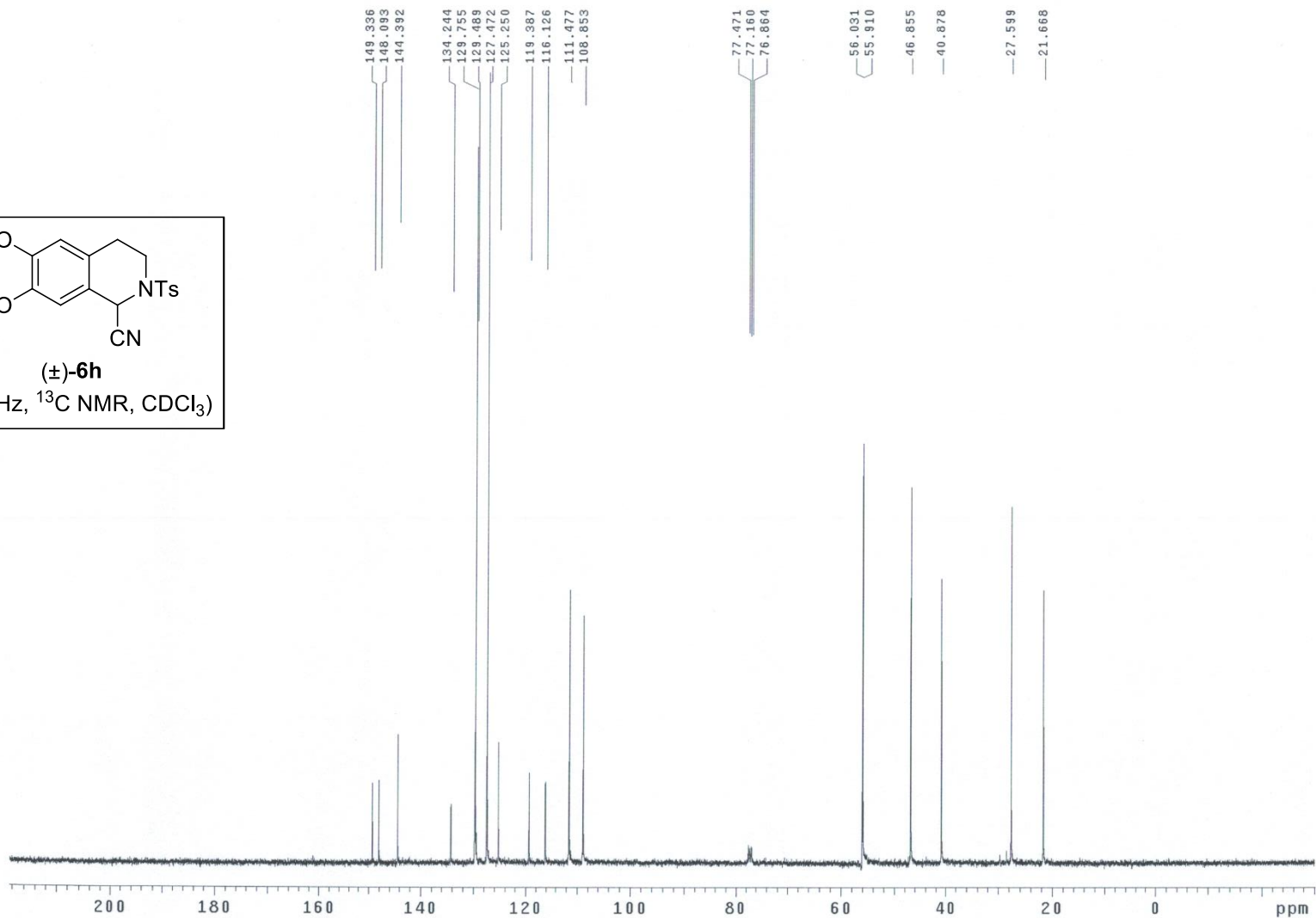
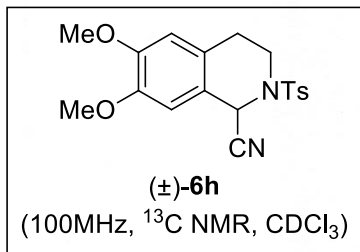
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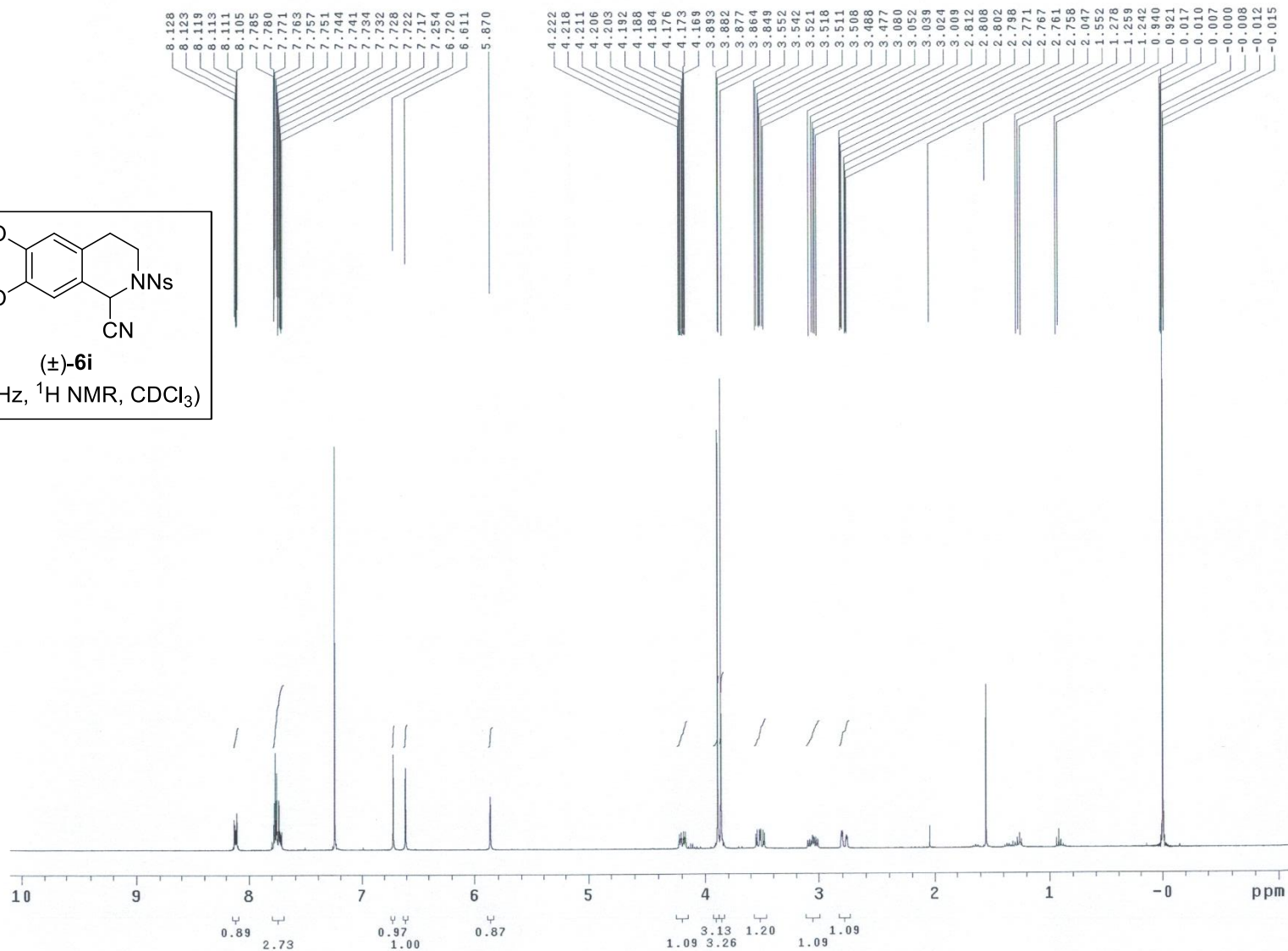
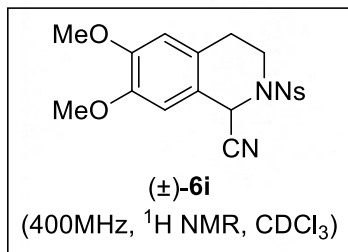


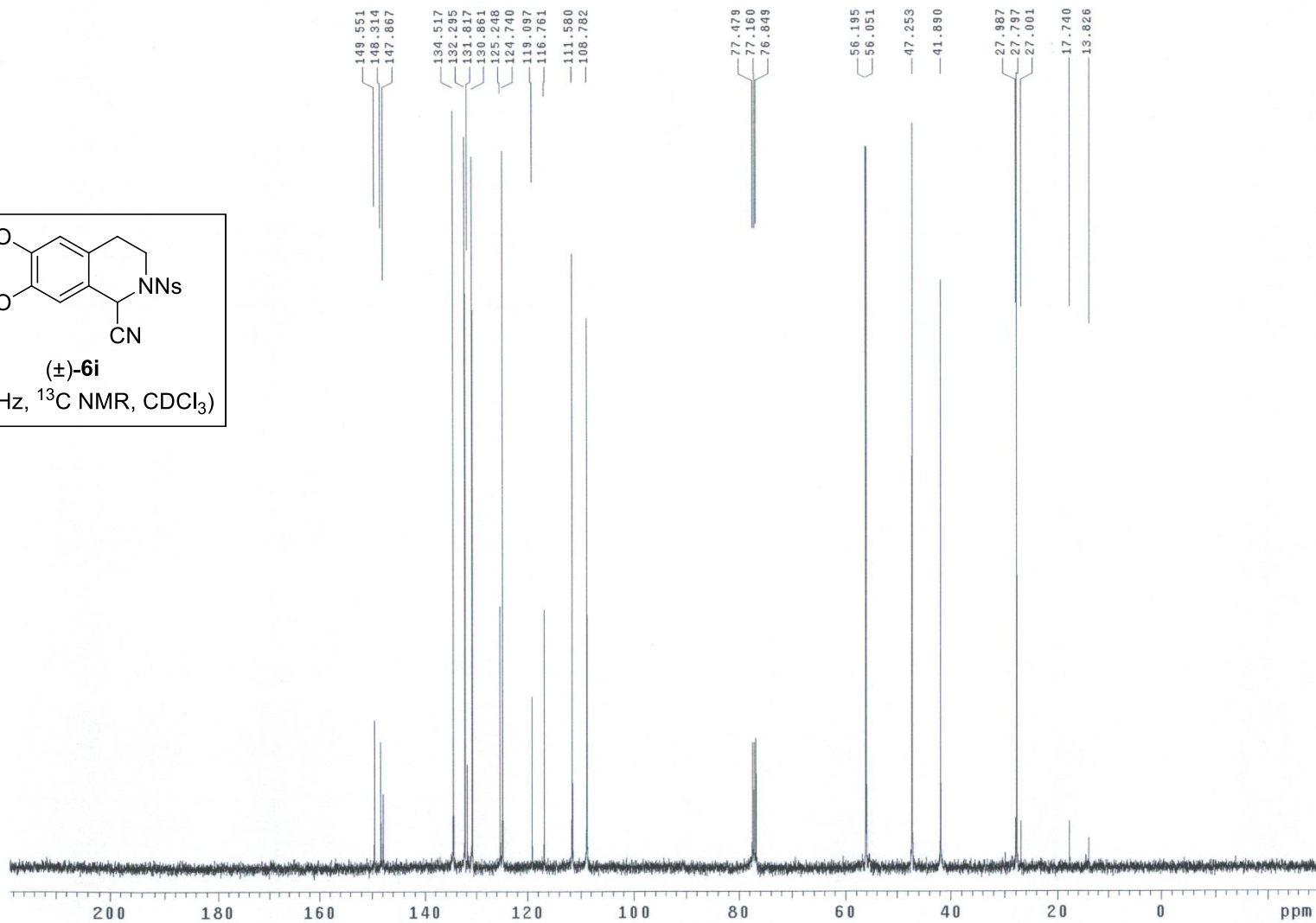
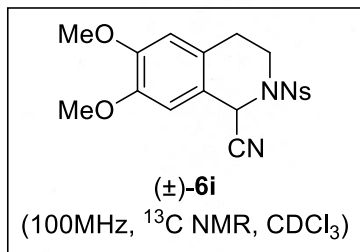






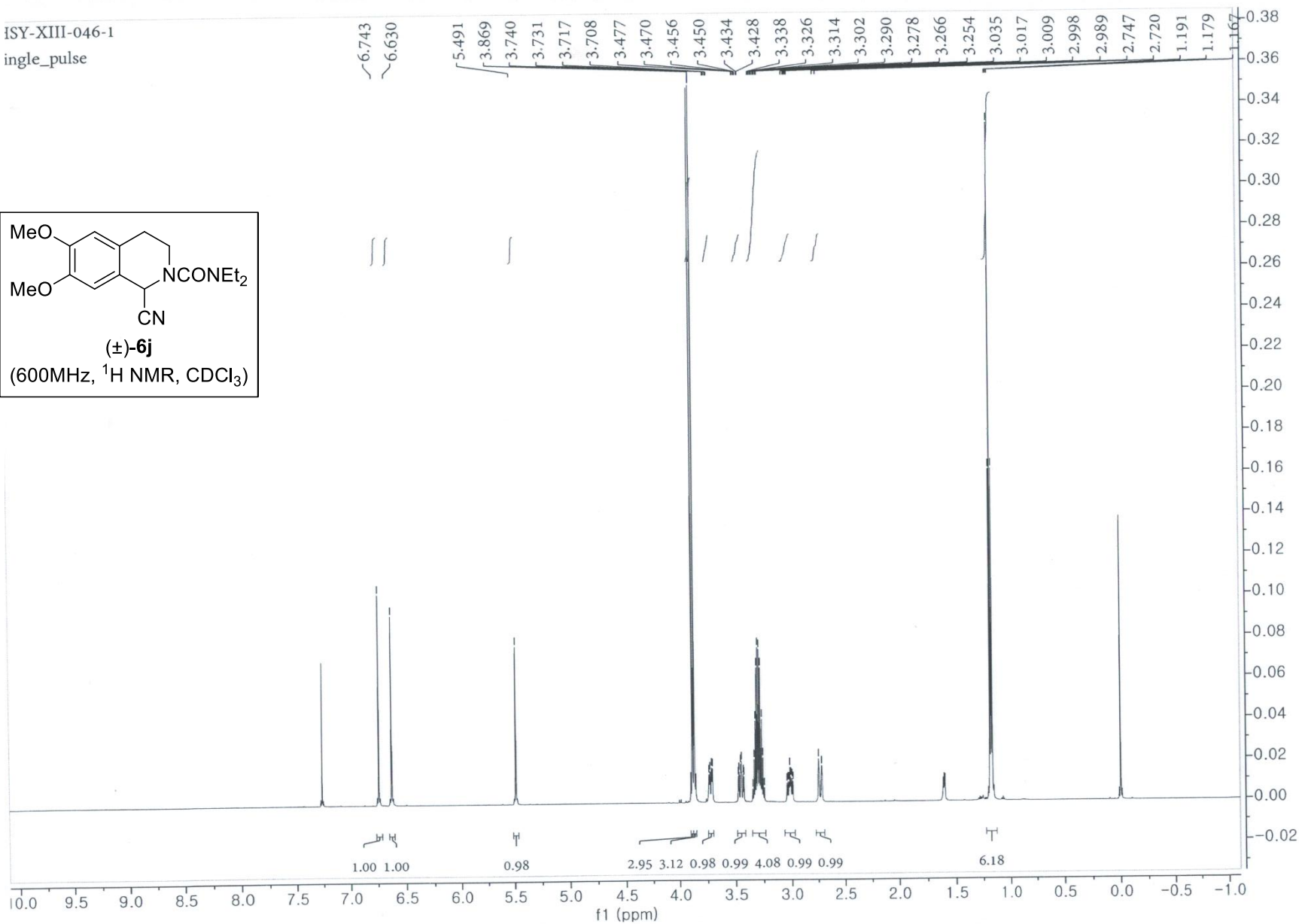
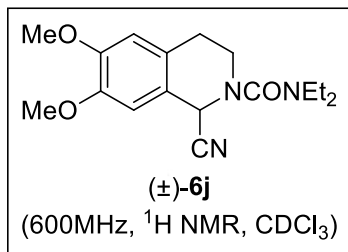






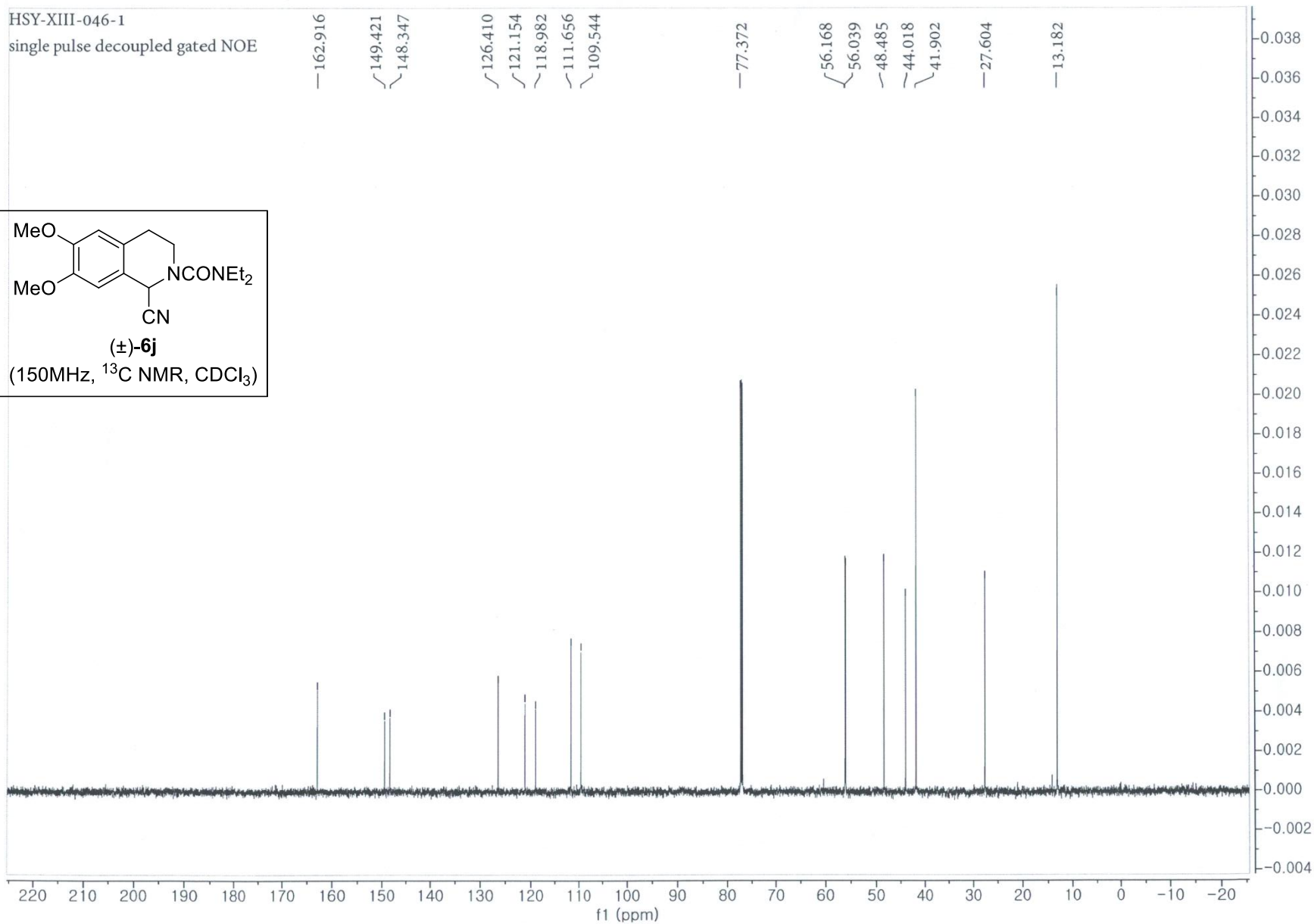
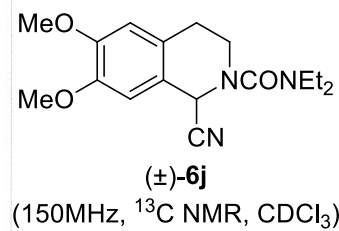
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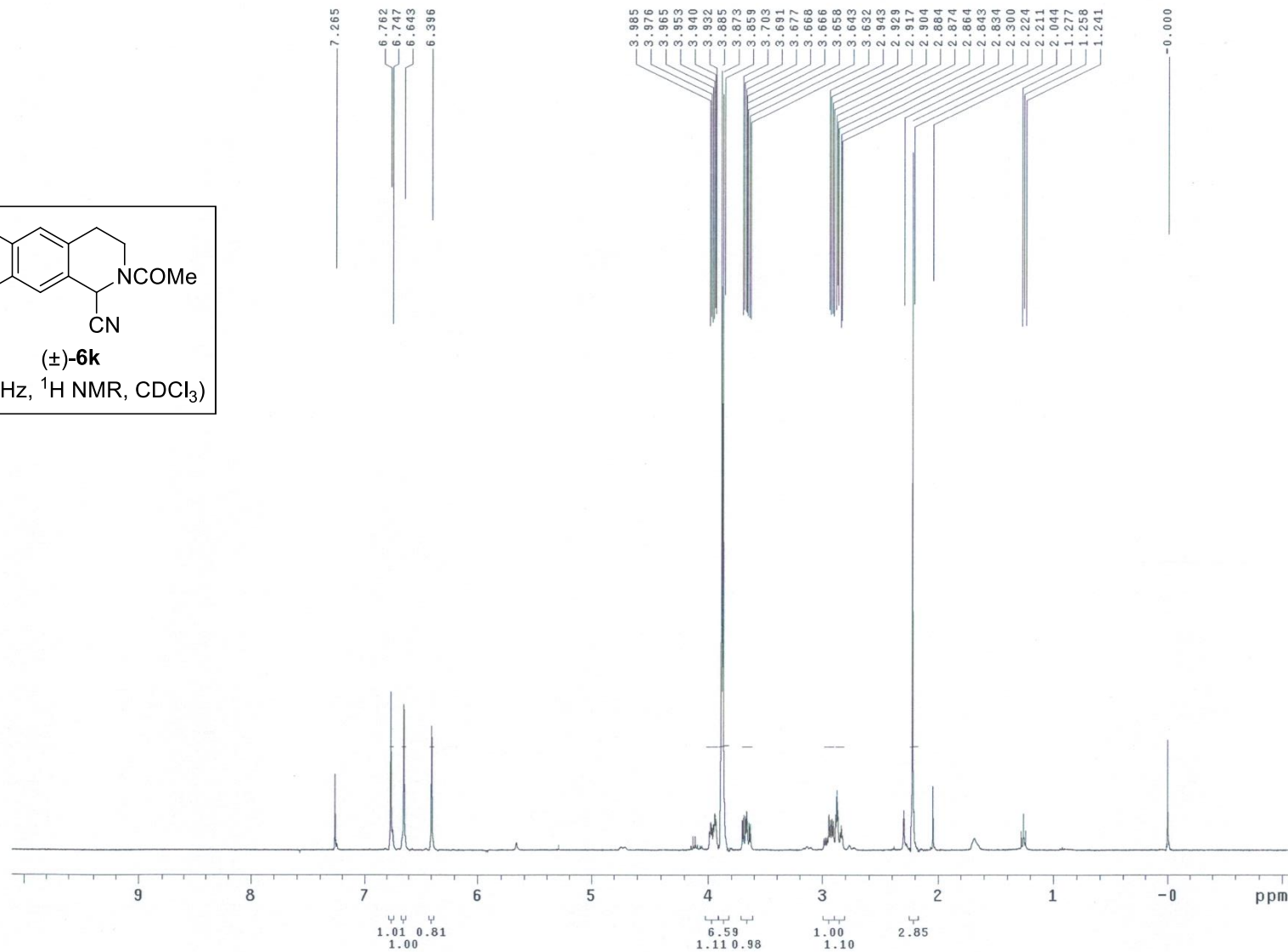
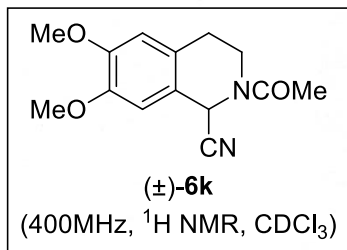
ingle_pulse

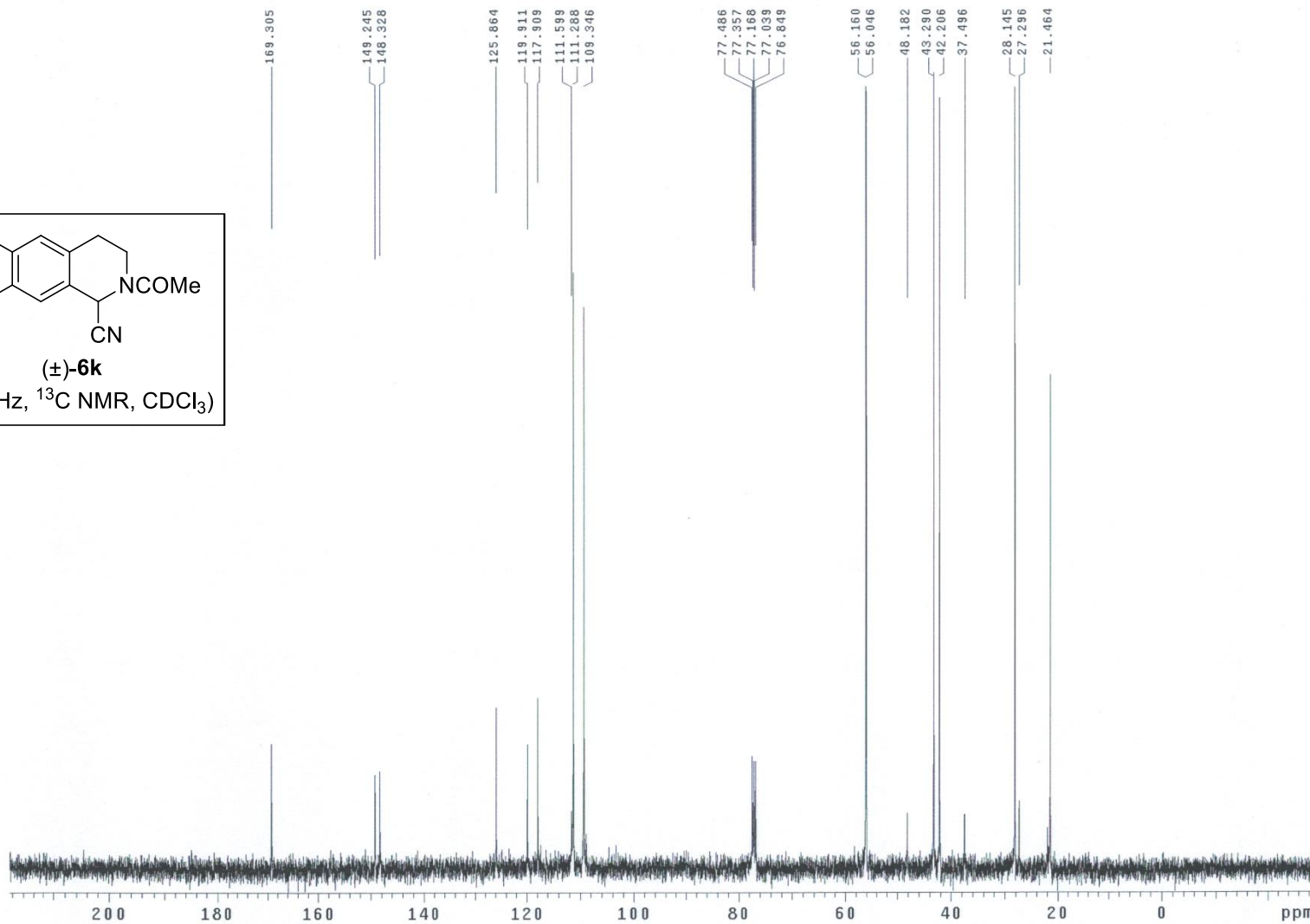
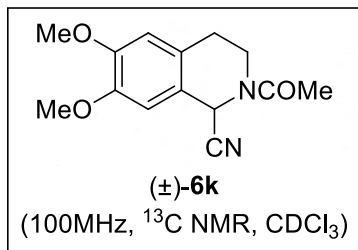


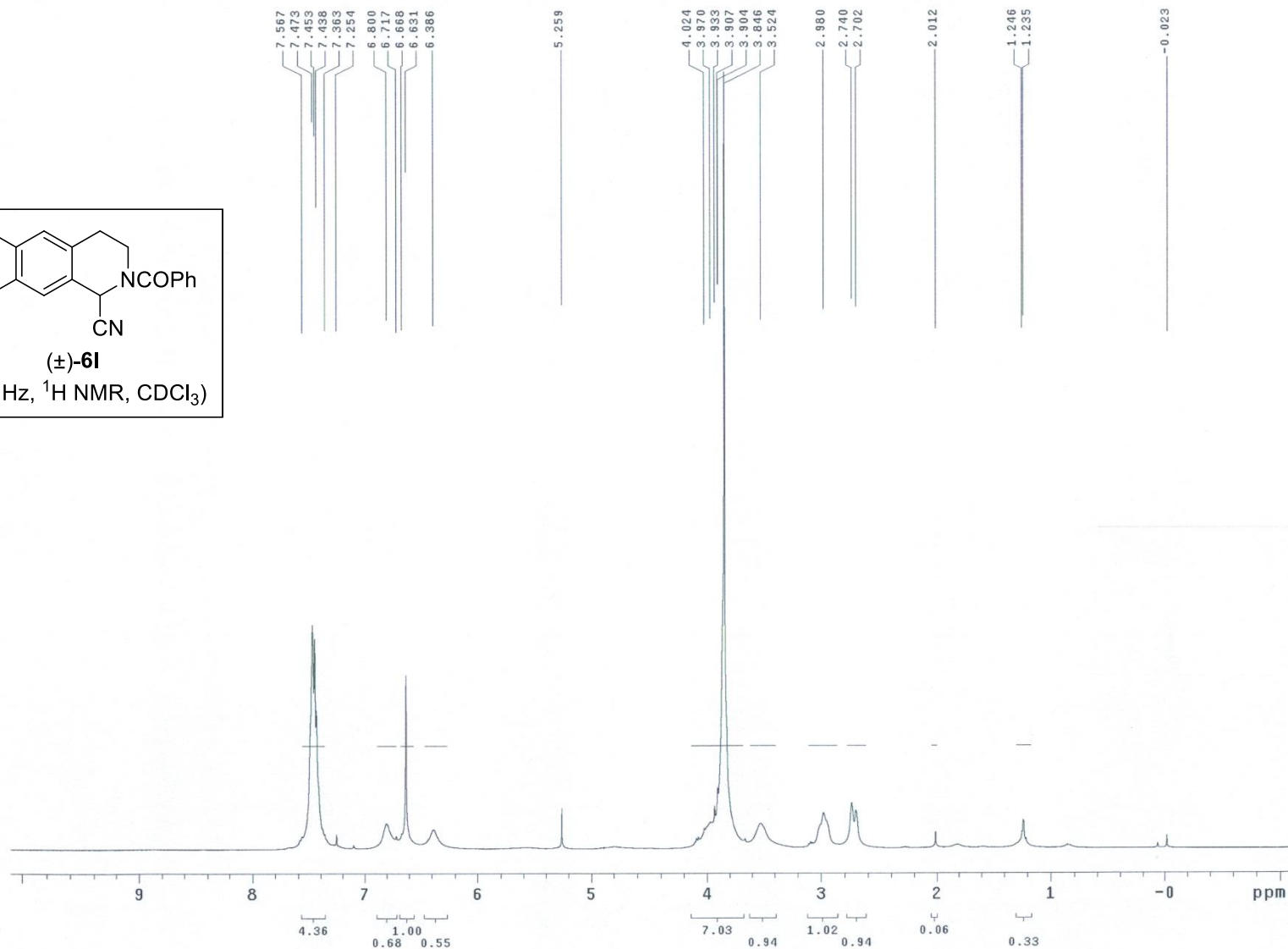
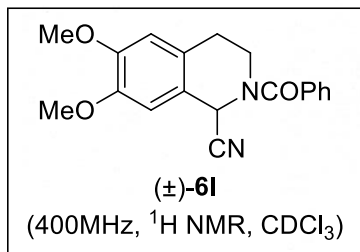
HSY-XIII-046-1

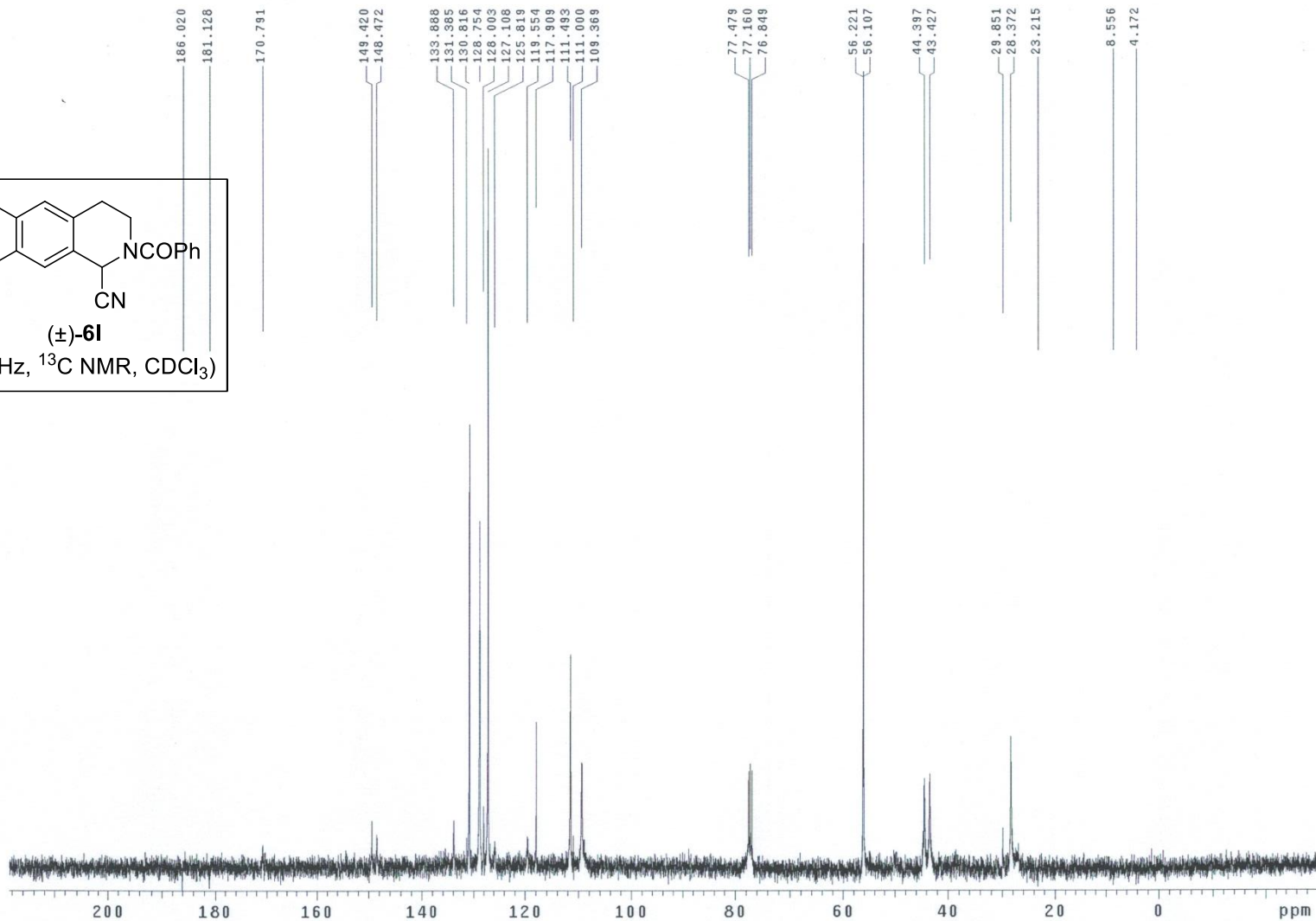
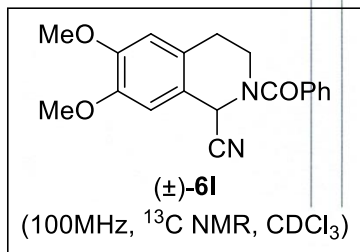
single pulse decoupled gated NOE

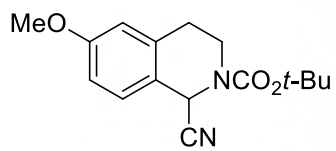






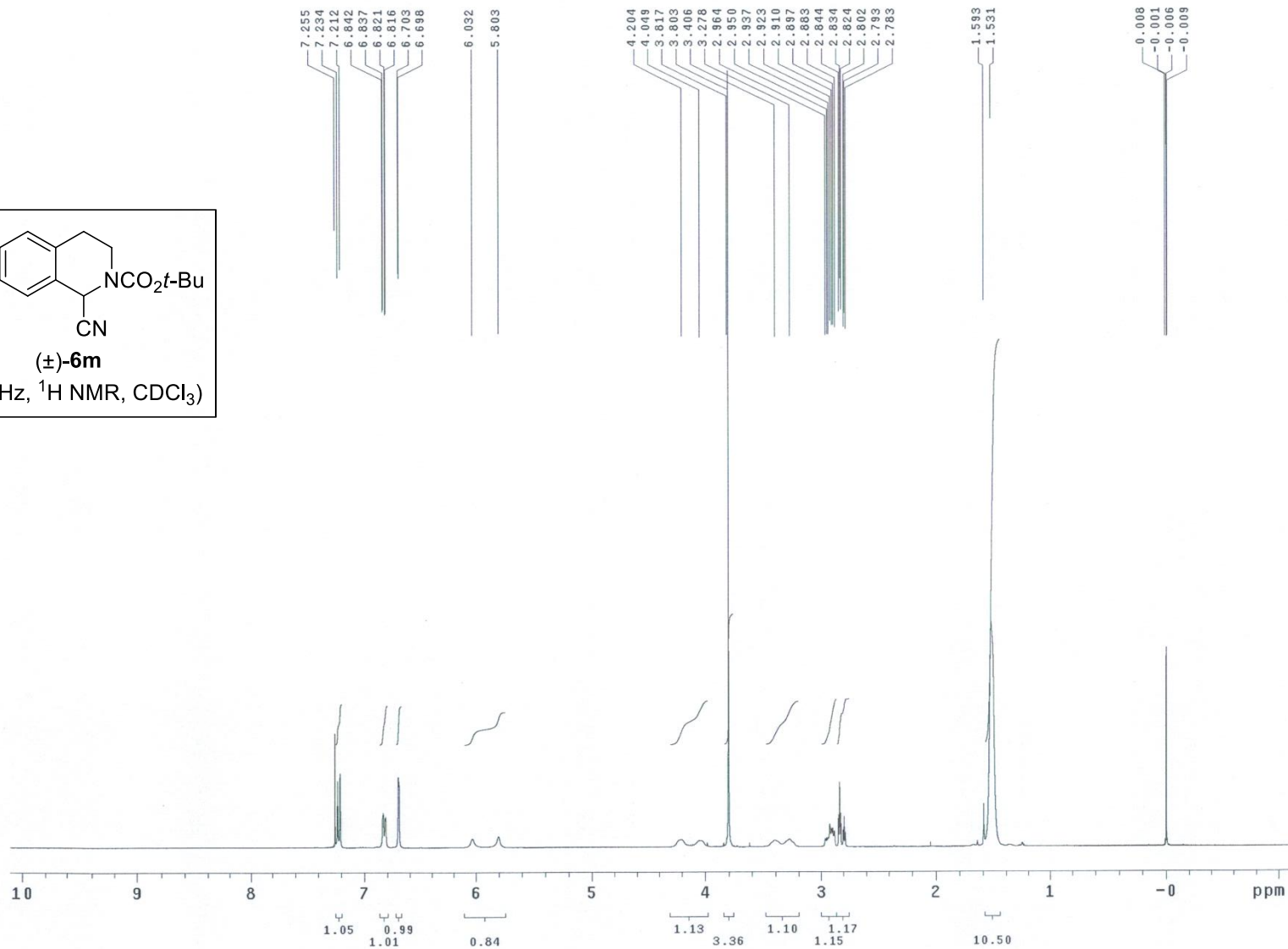


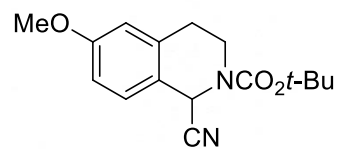




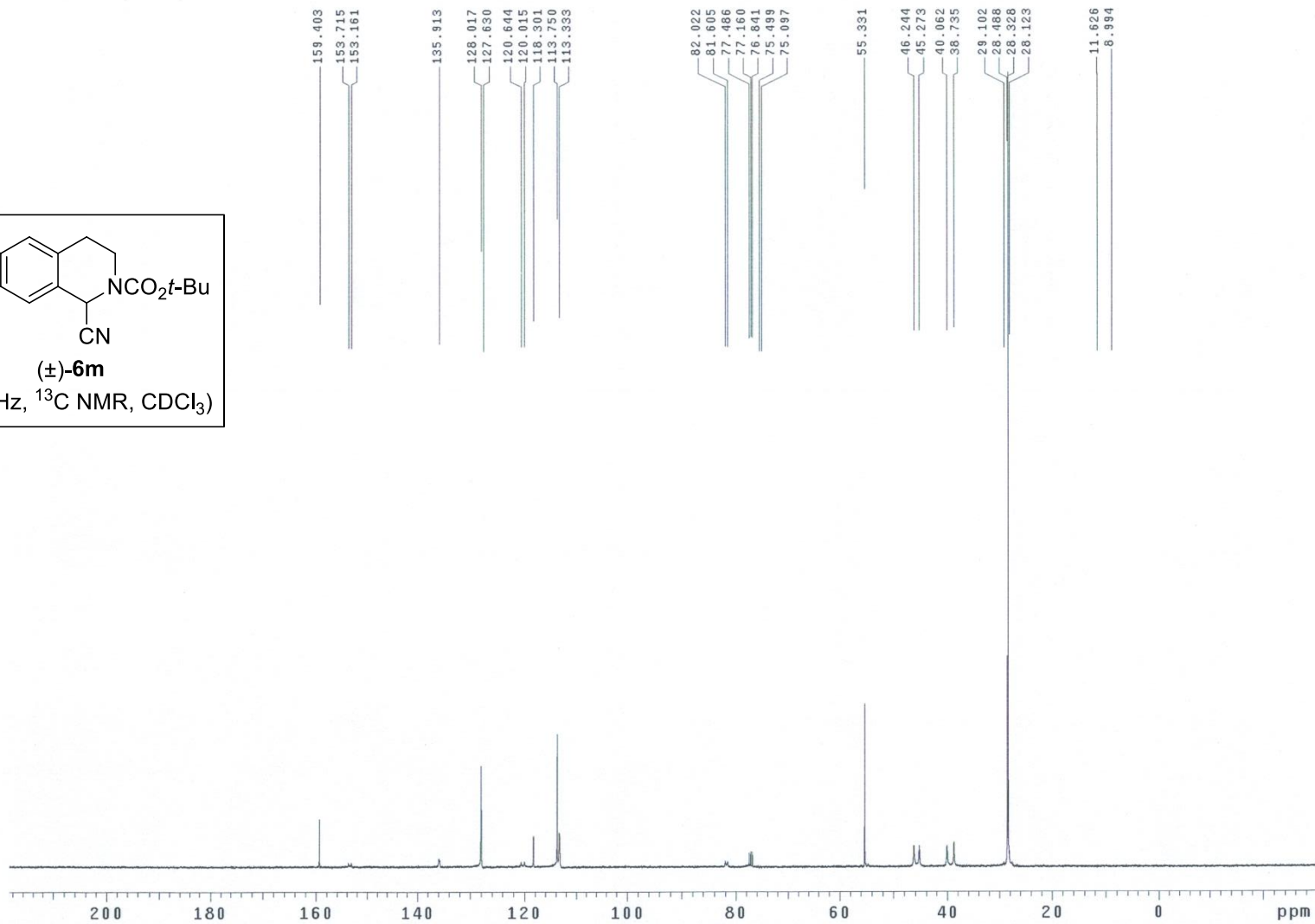
(±)-6m

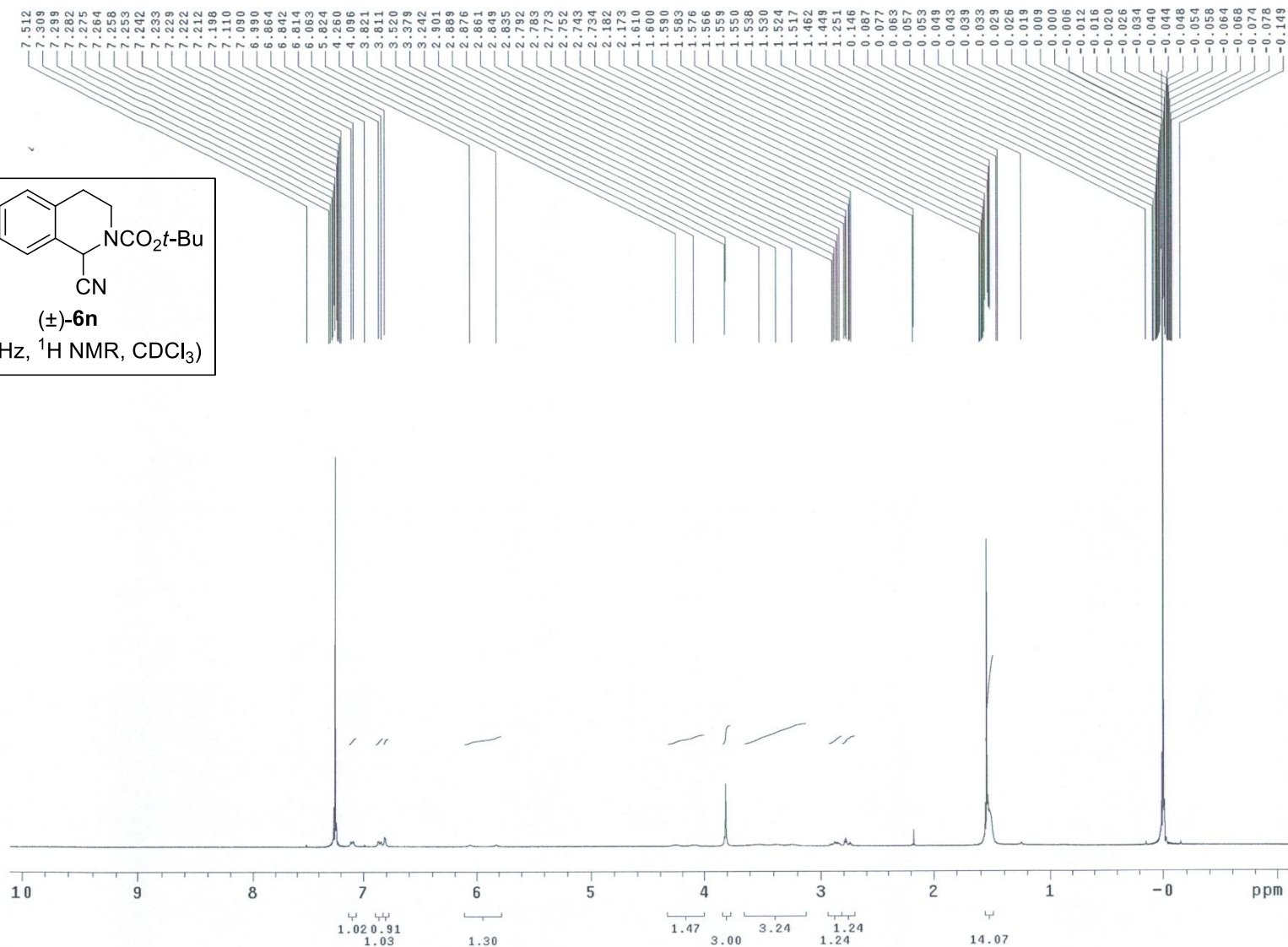
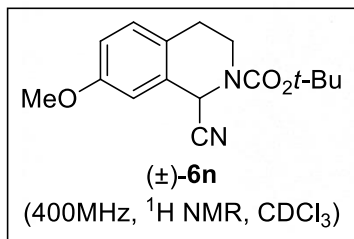
(400MHz, ^1H NMR, CDCl_3)

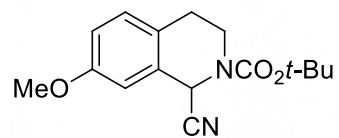




(±)-6m
(100MHz, ¹³C NMR, CDCl₃)

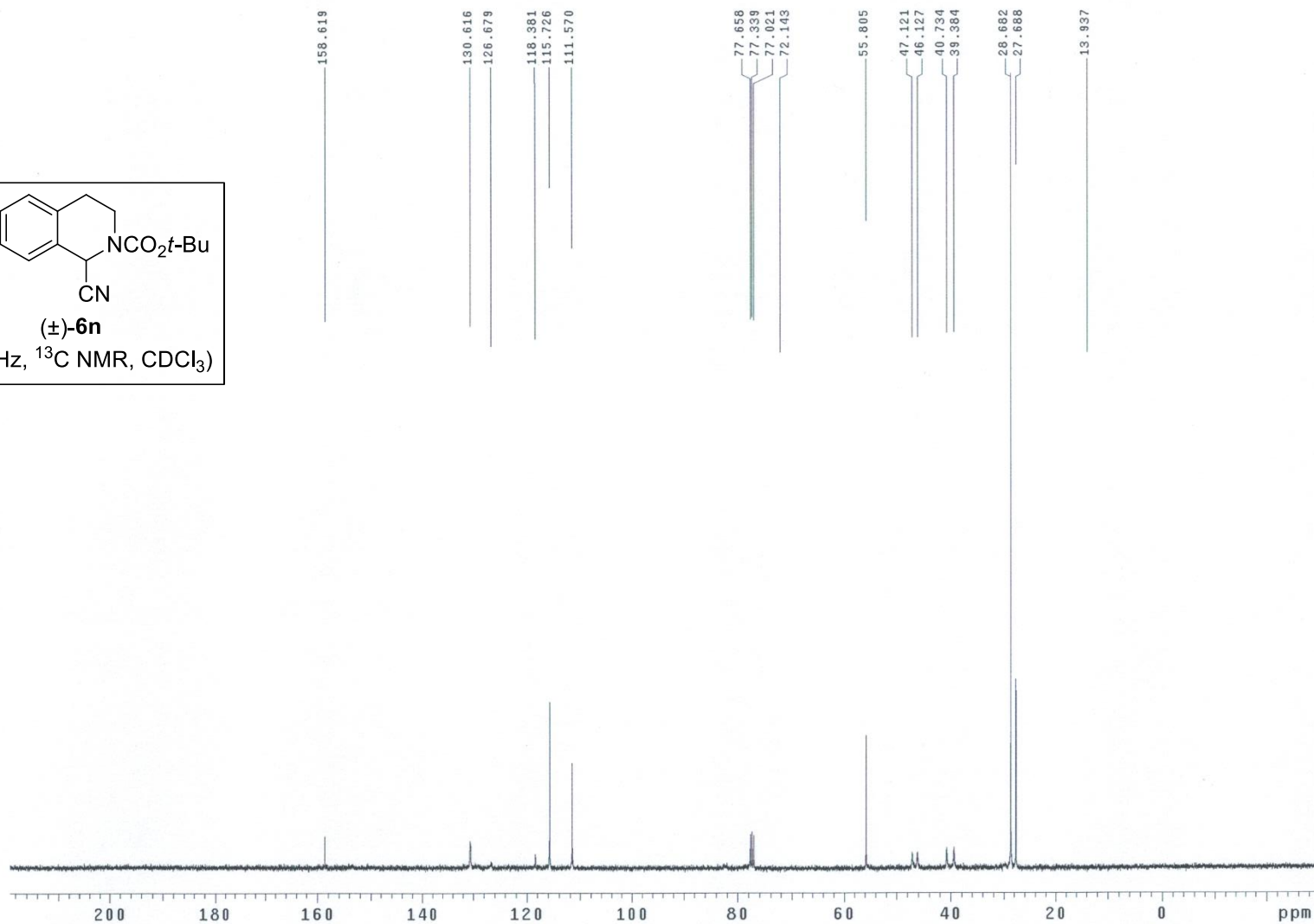


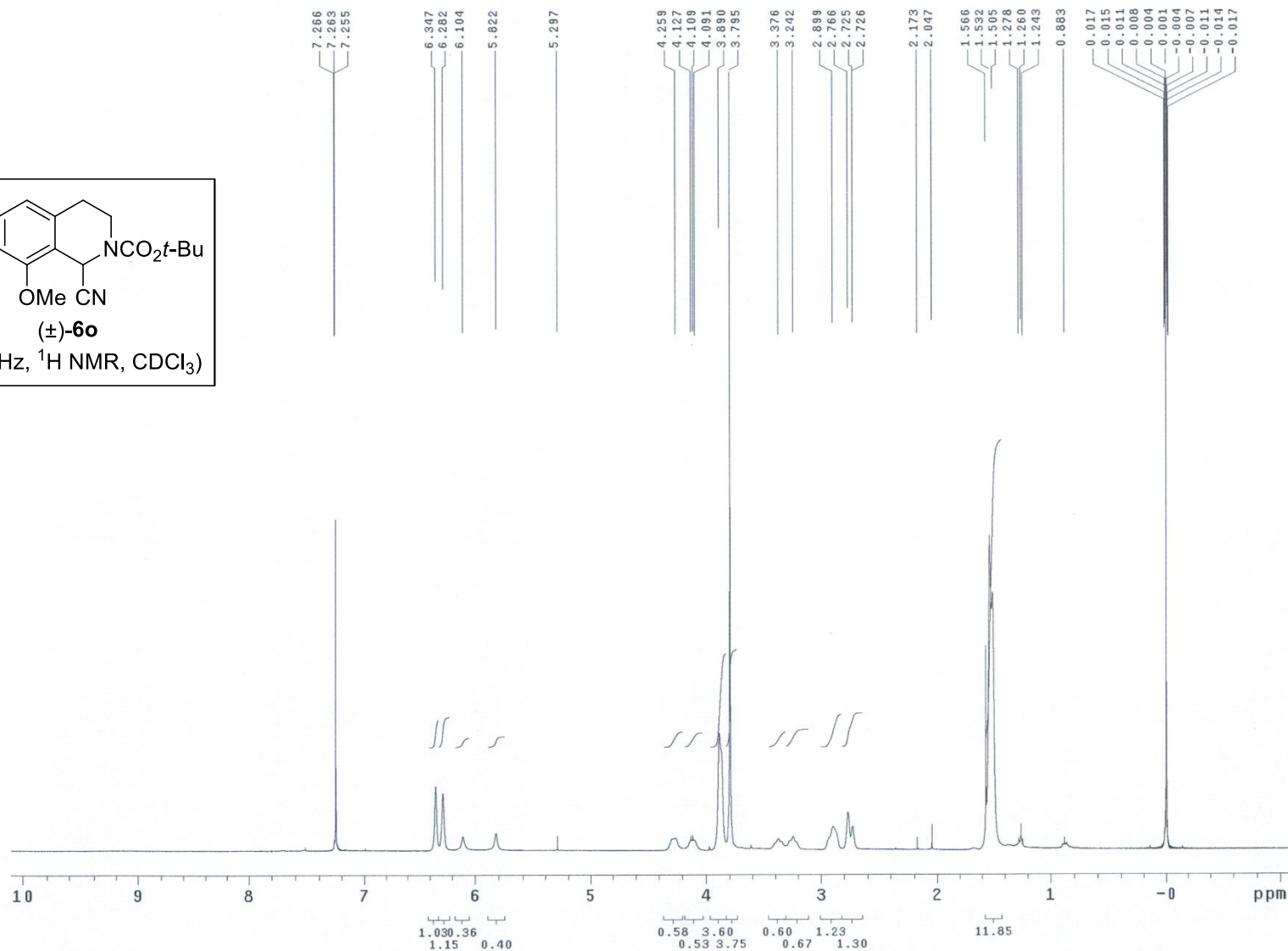
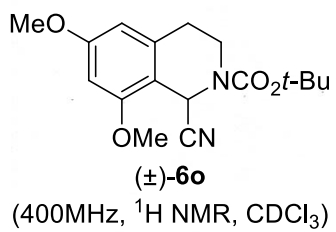


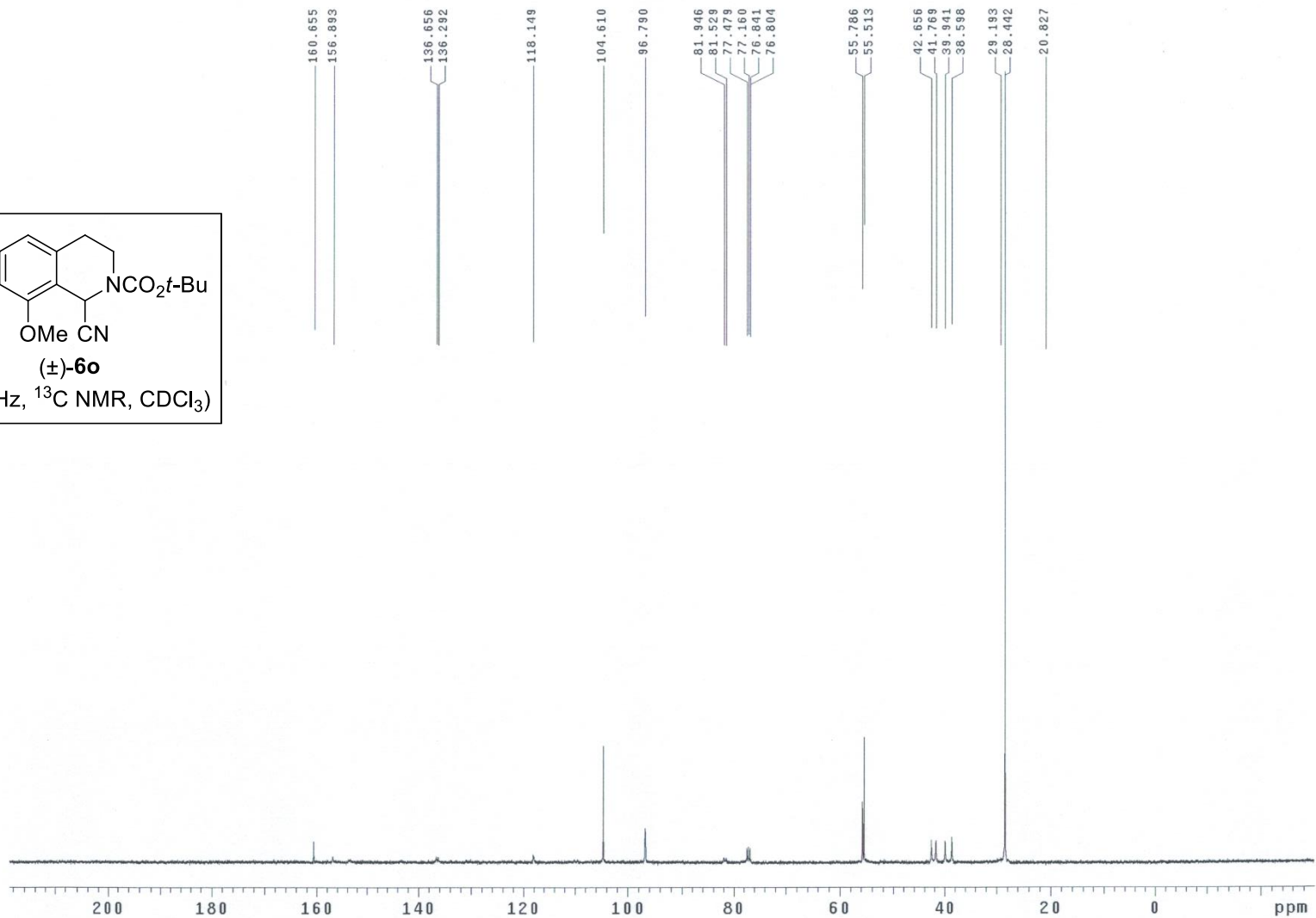
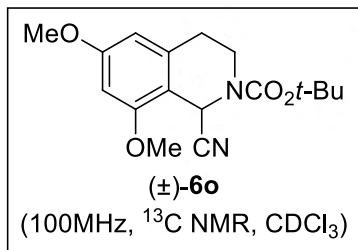


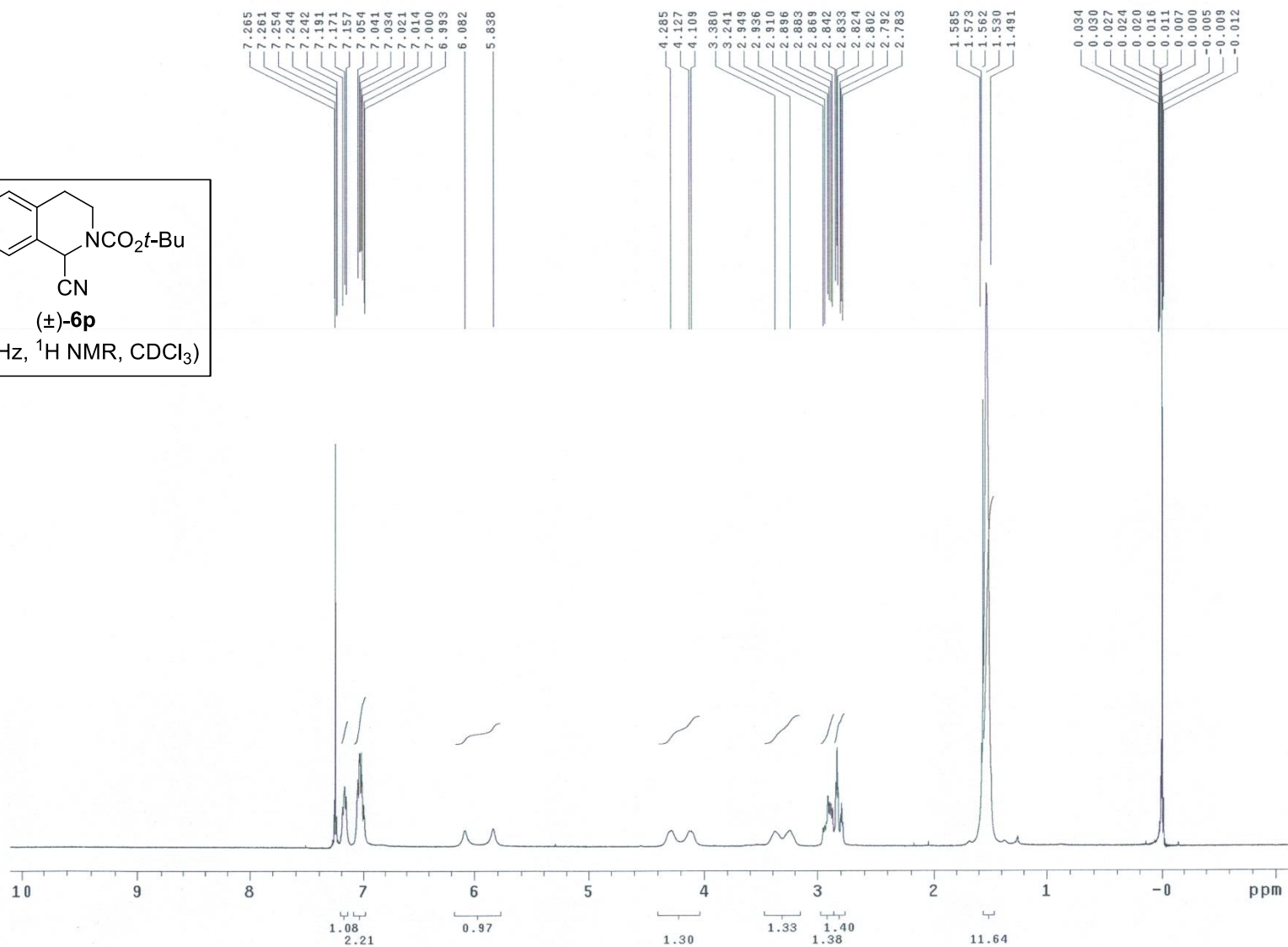
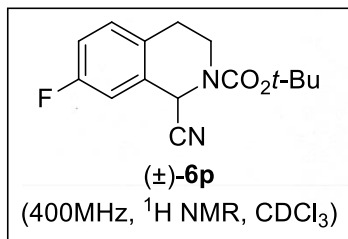
(±)-6n

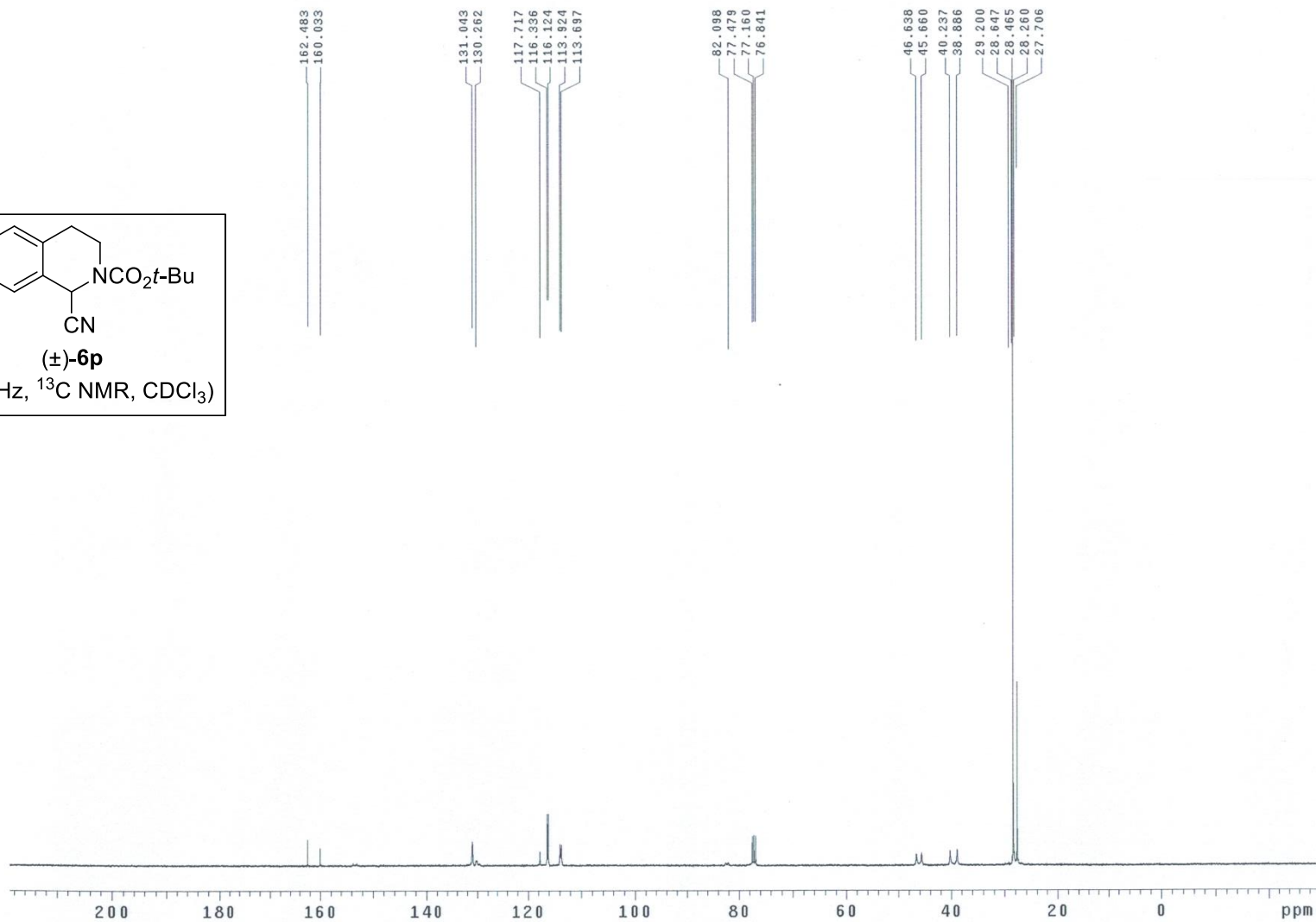
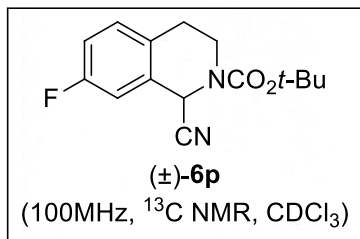
(100MHz, ¹³C NMR, CDCl₃)

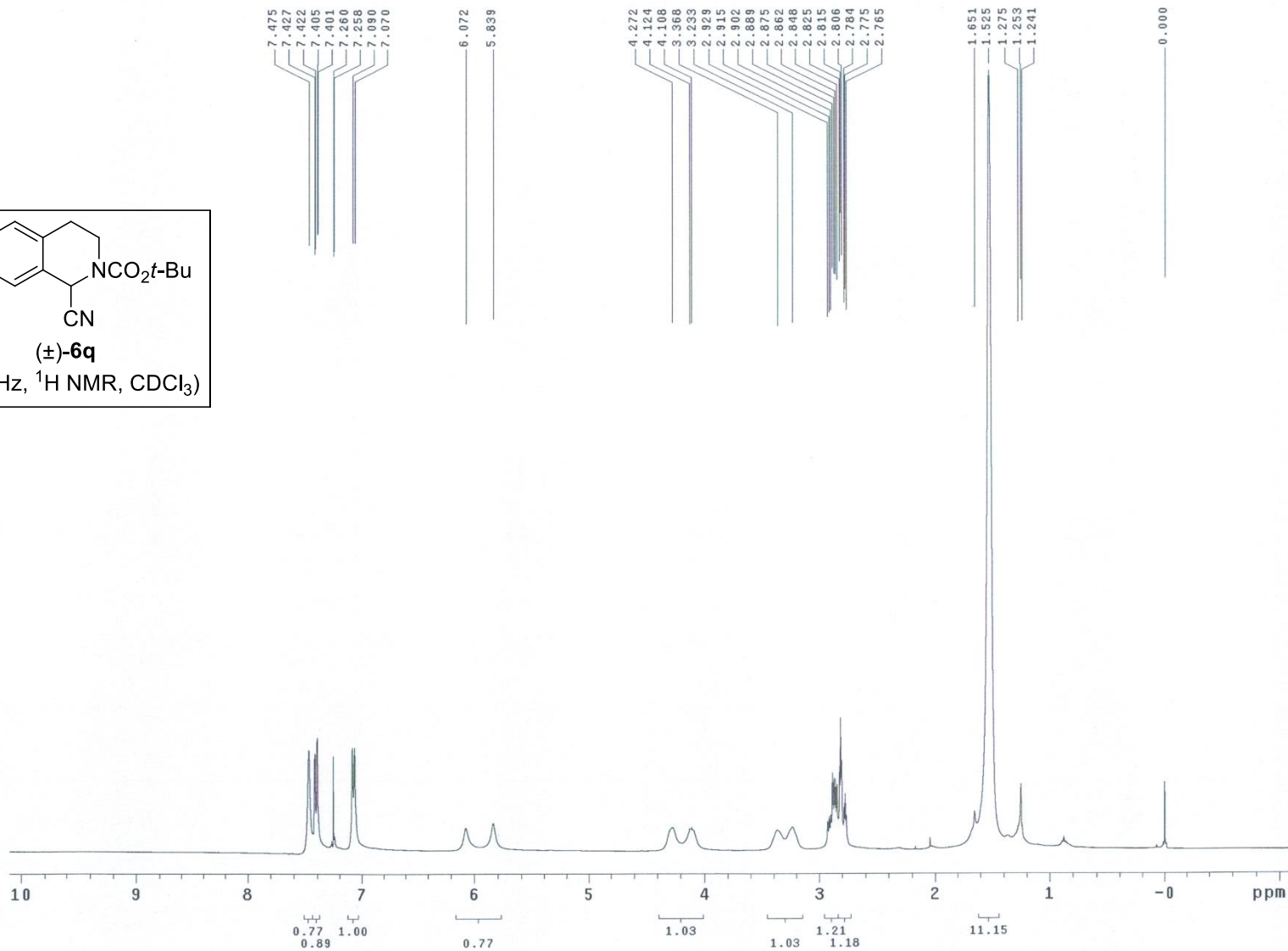
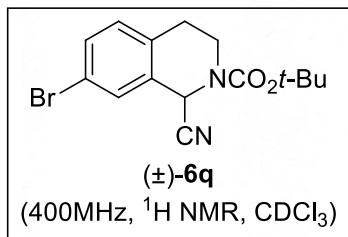


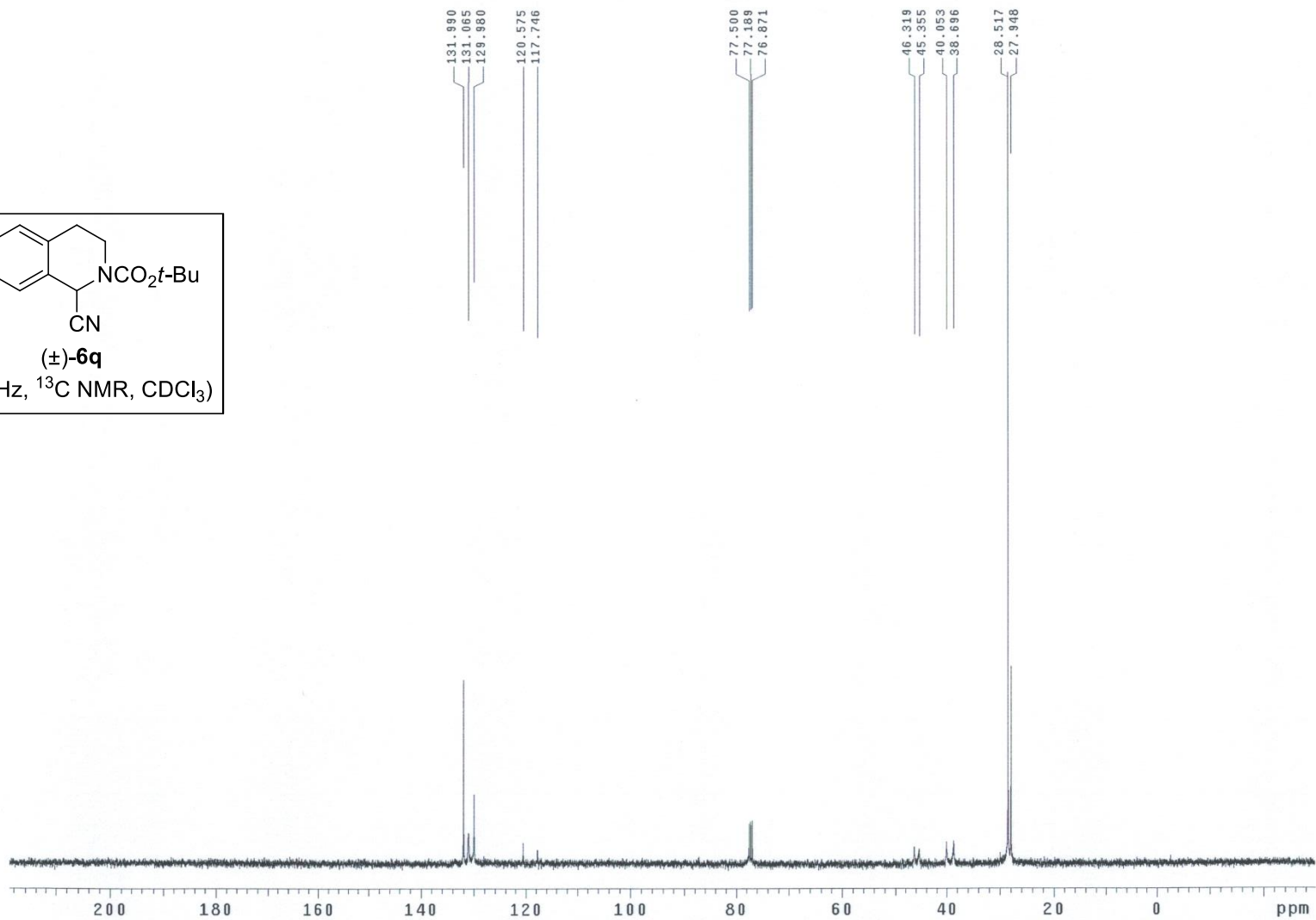
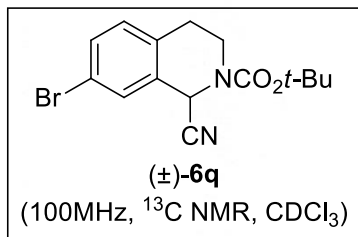






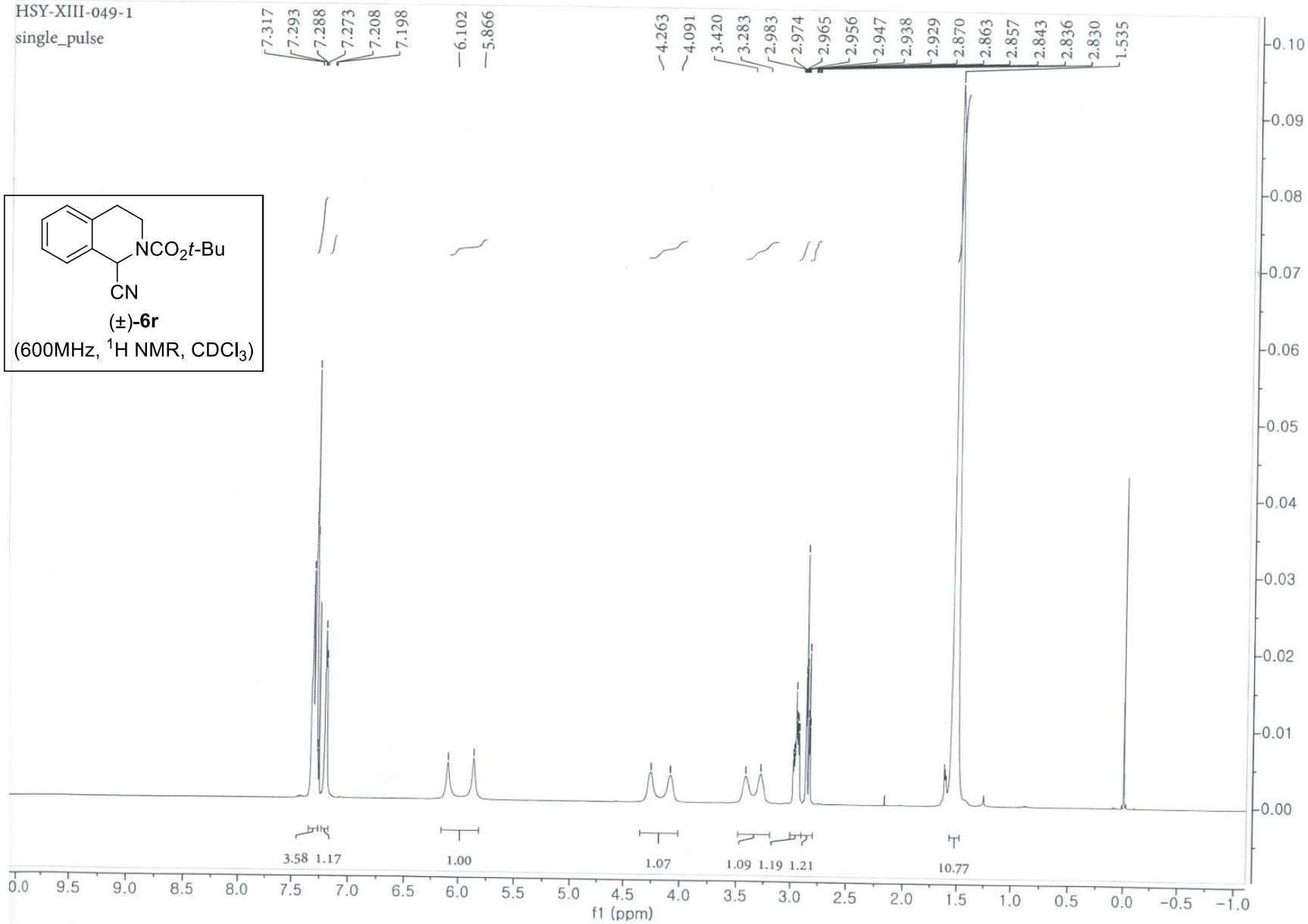
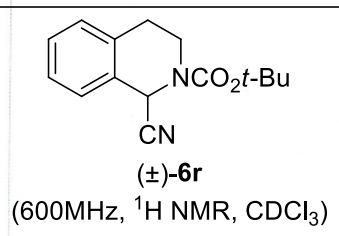






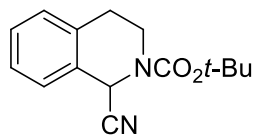
HSY-XIII-049-1

single_pulse



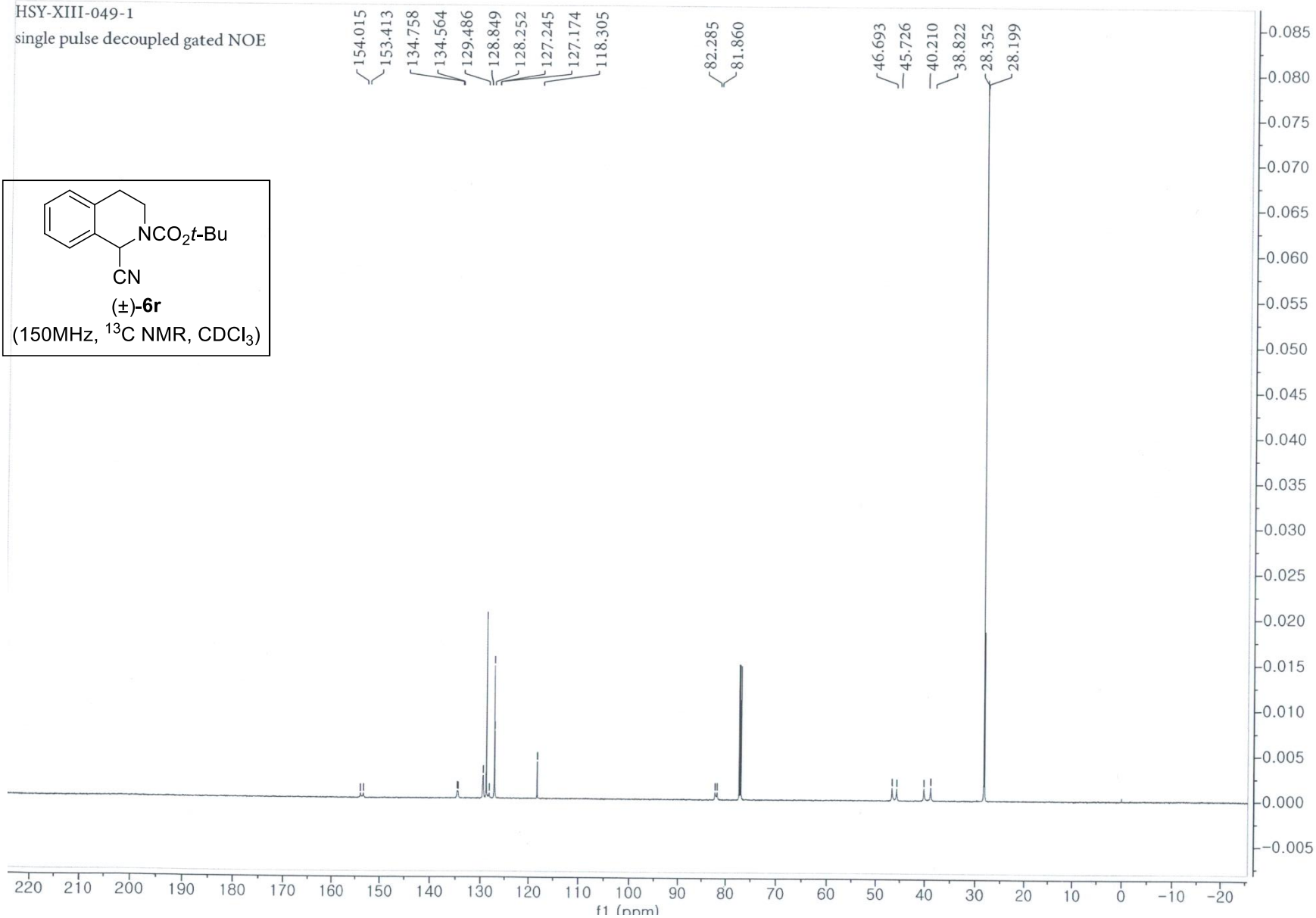
HSY-XIII-049-1

single pulse decoupled gated NOE



(±)-6r

(150MHz, ^{13}C NMR, CDCl_3)



S50

