

Supplementary Information

Synthesis and C2-functionalization of indoles with allylic acetates under rhodium catalysis

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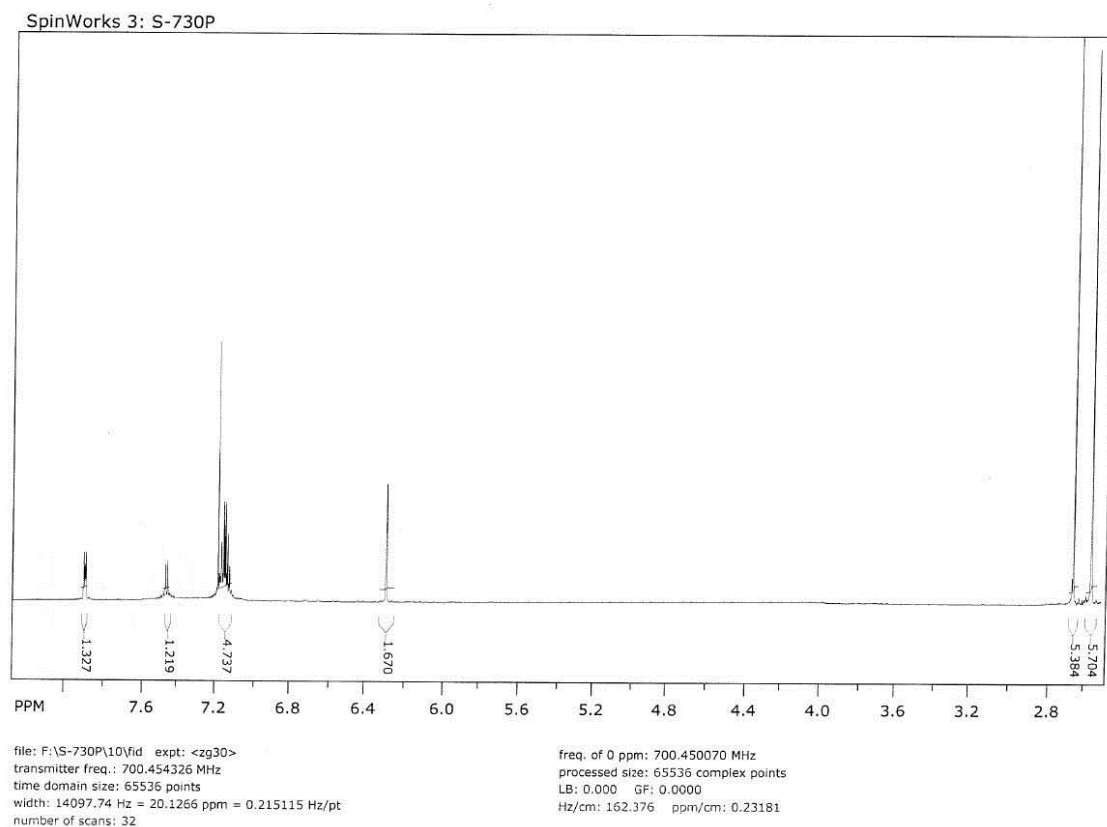
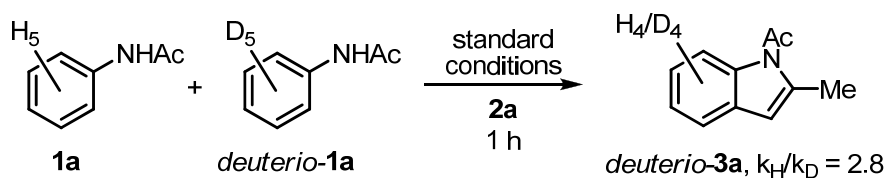
List of the Contents

Mechanistic studies ----- S2–S5

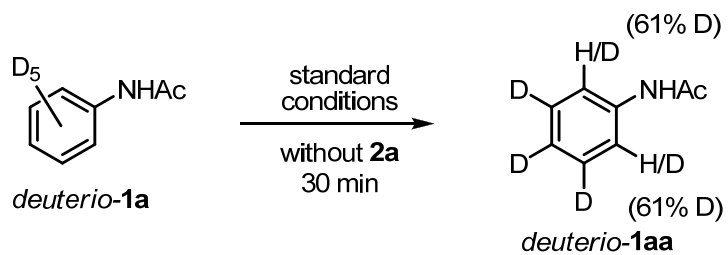
¹H NMR and ¹³C NMR copies of all products ----- S6–S36

Mechanistic Studies

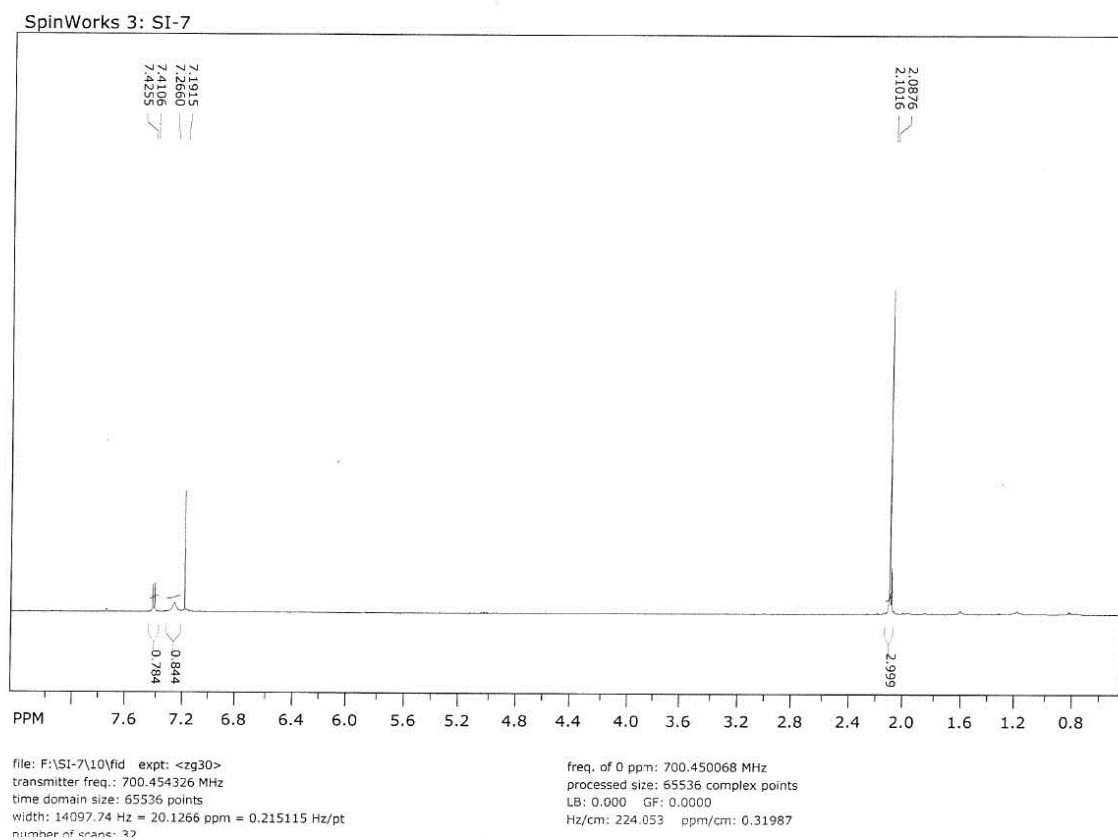
a) Kinetic Isotope Effect



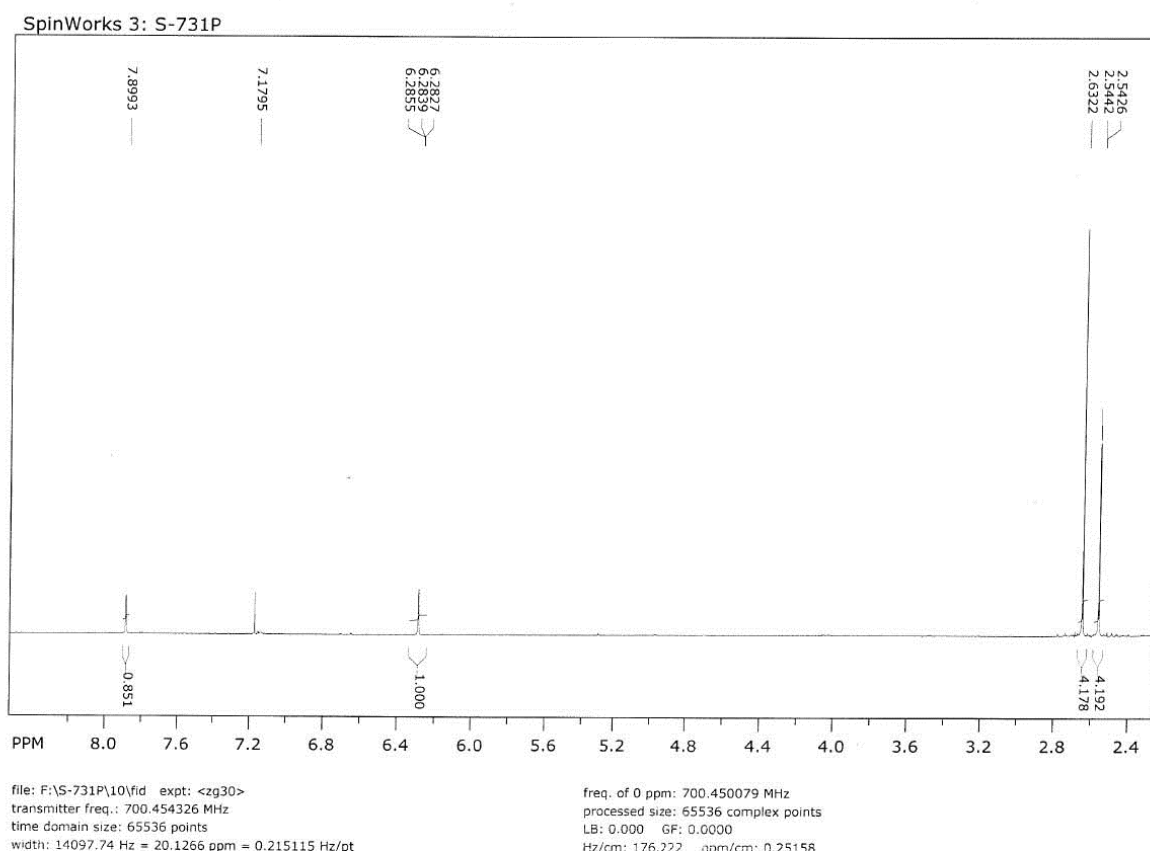
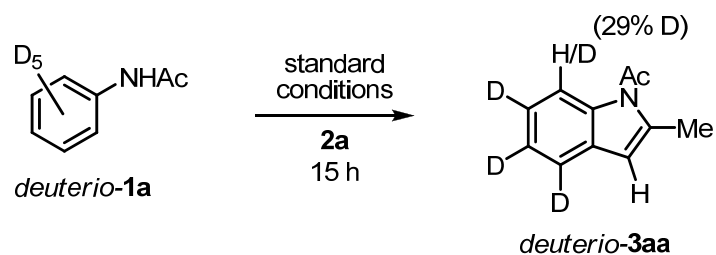
b) Reversibility of deuterio-1a without allyl acetate (2a)



^1H NMR (700 MHz, CDCl_3)

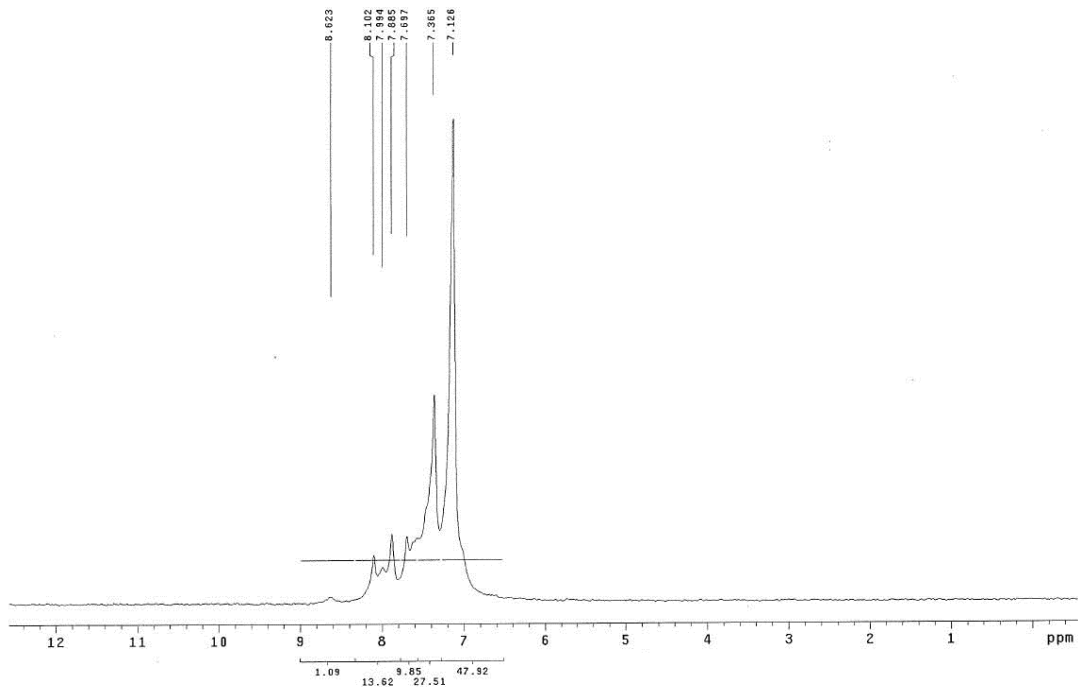


c) Reversibility of deuterio-1a with allyl acetate (2a)

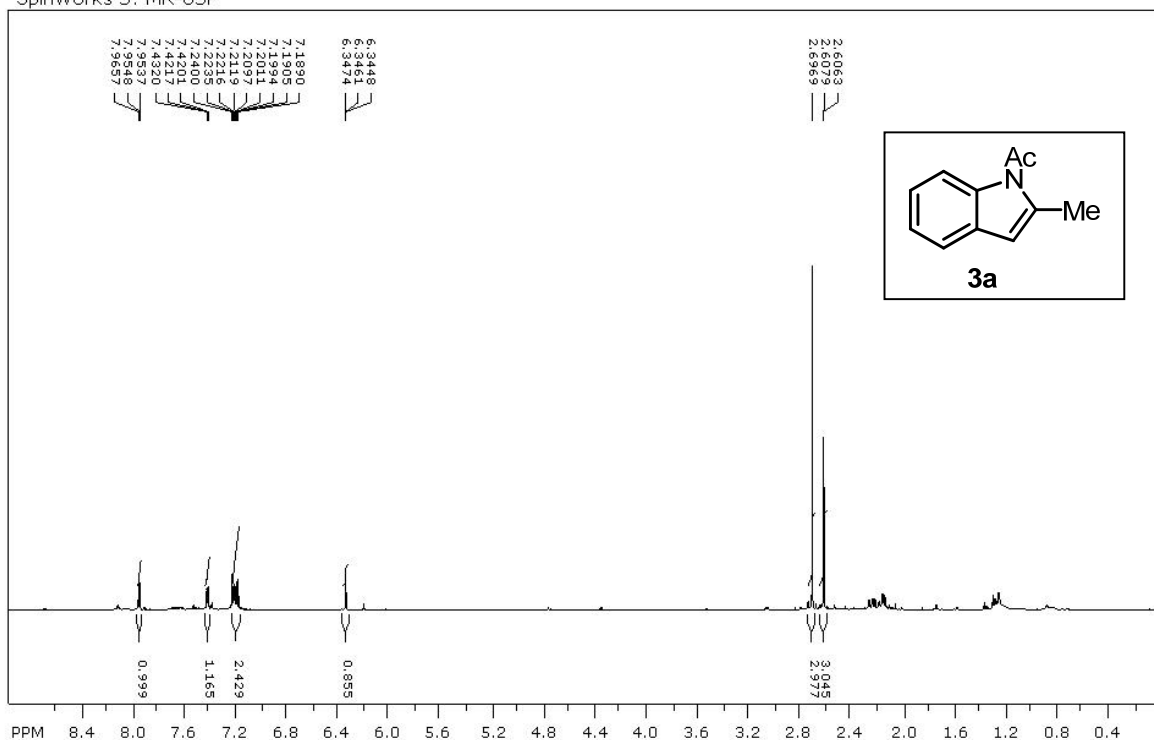


^2H NMR (700 MHz, CHCl_3)

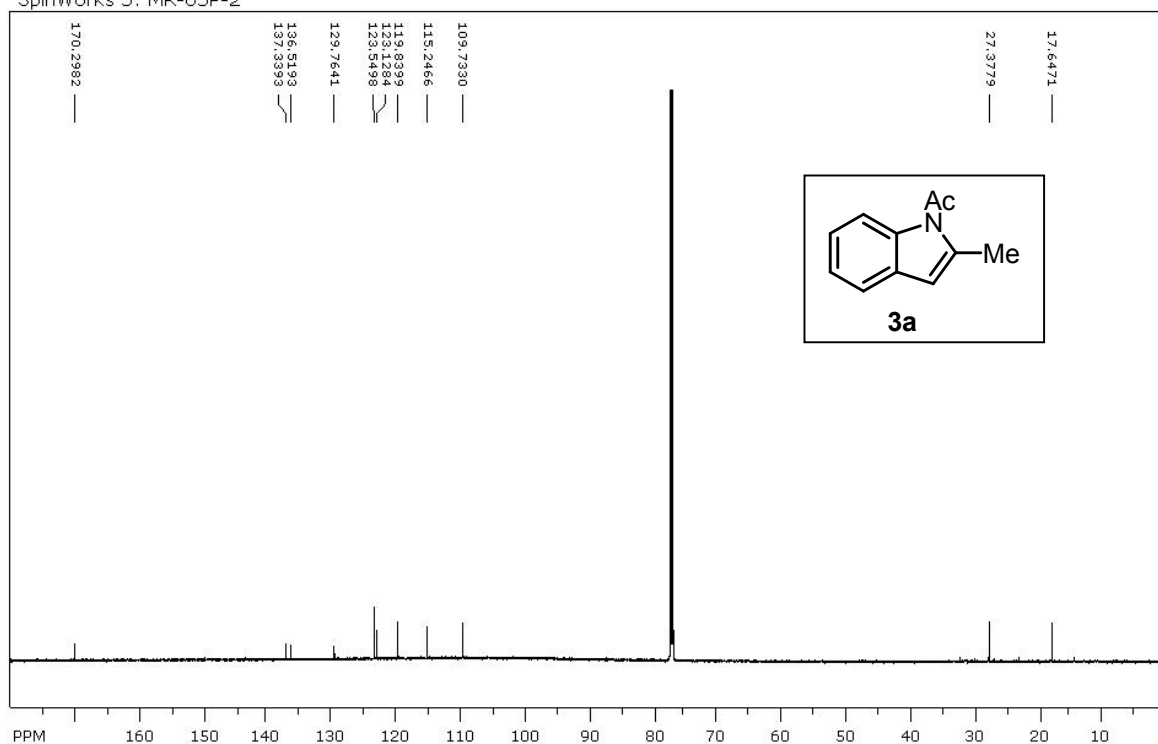
S-731P-1-2H
Pulse Sequence: s2pu1



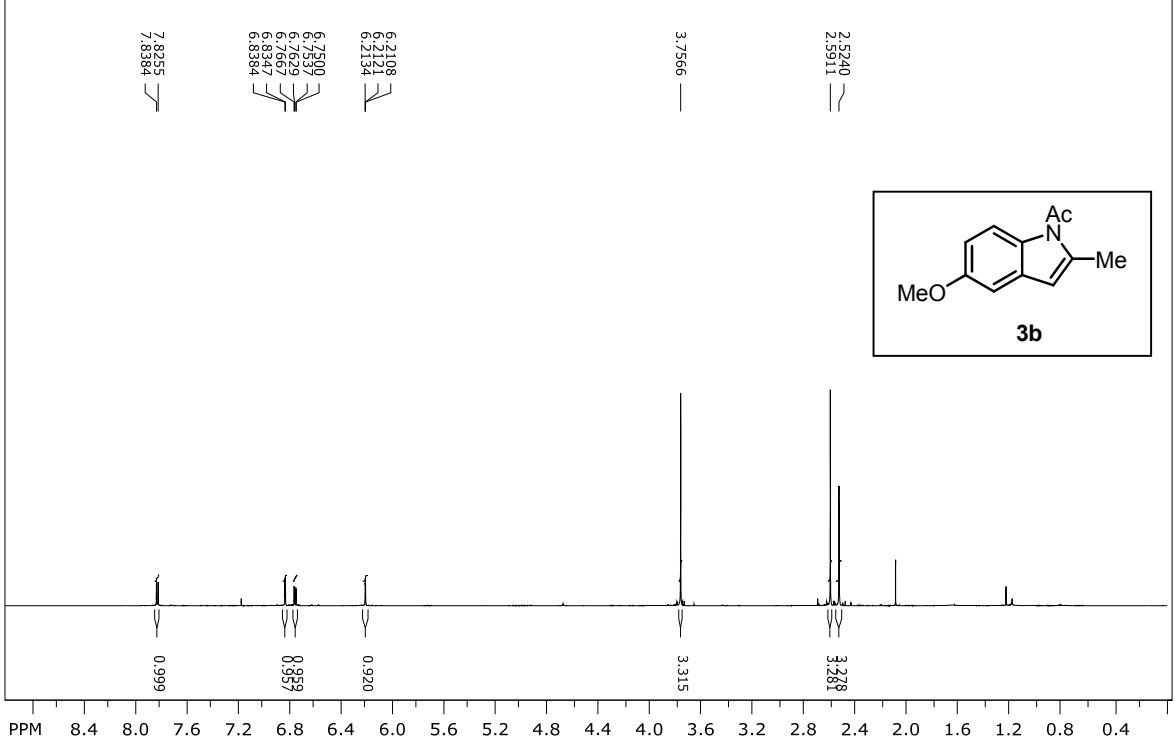
SpinWorks 3: MR-63P



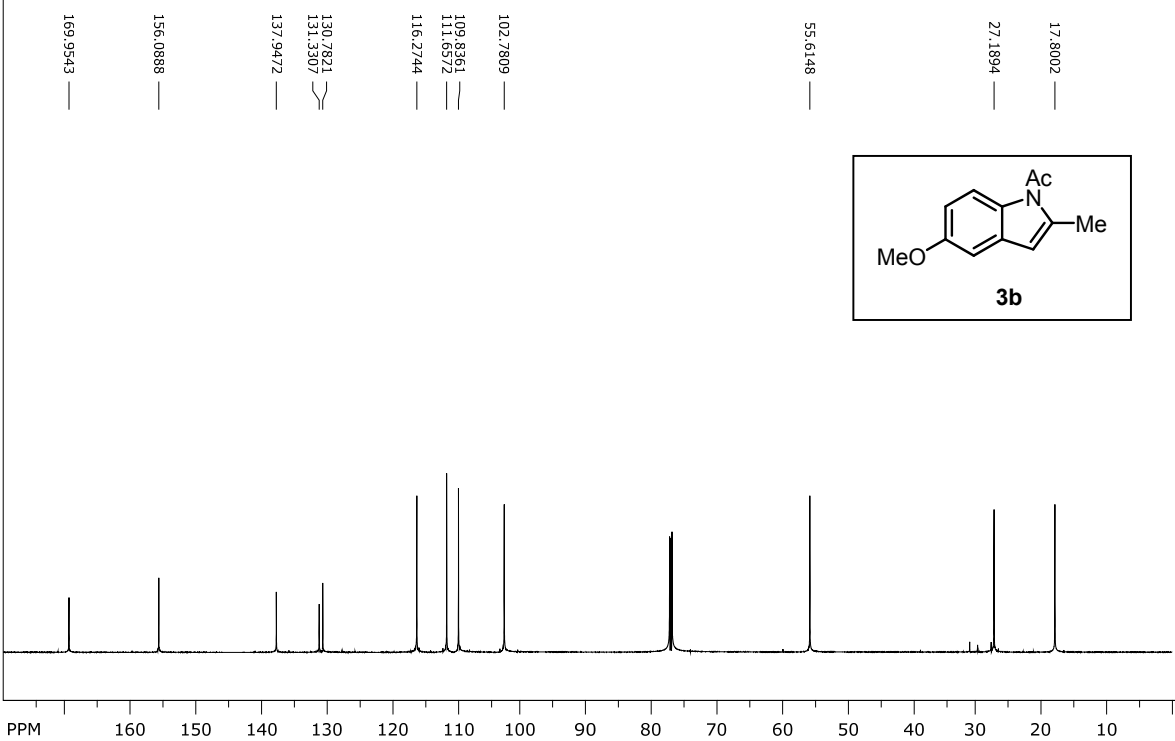
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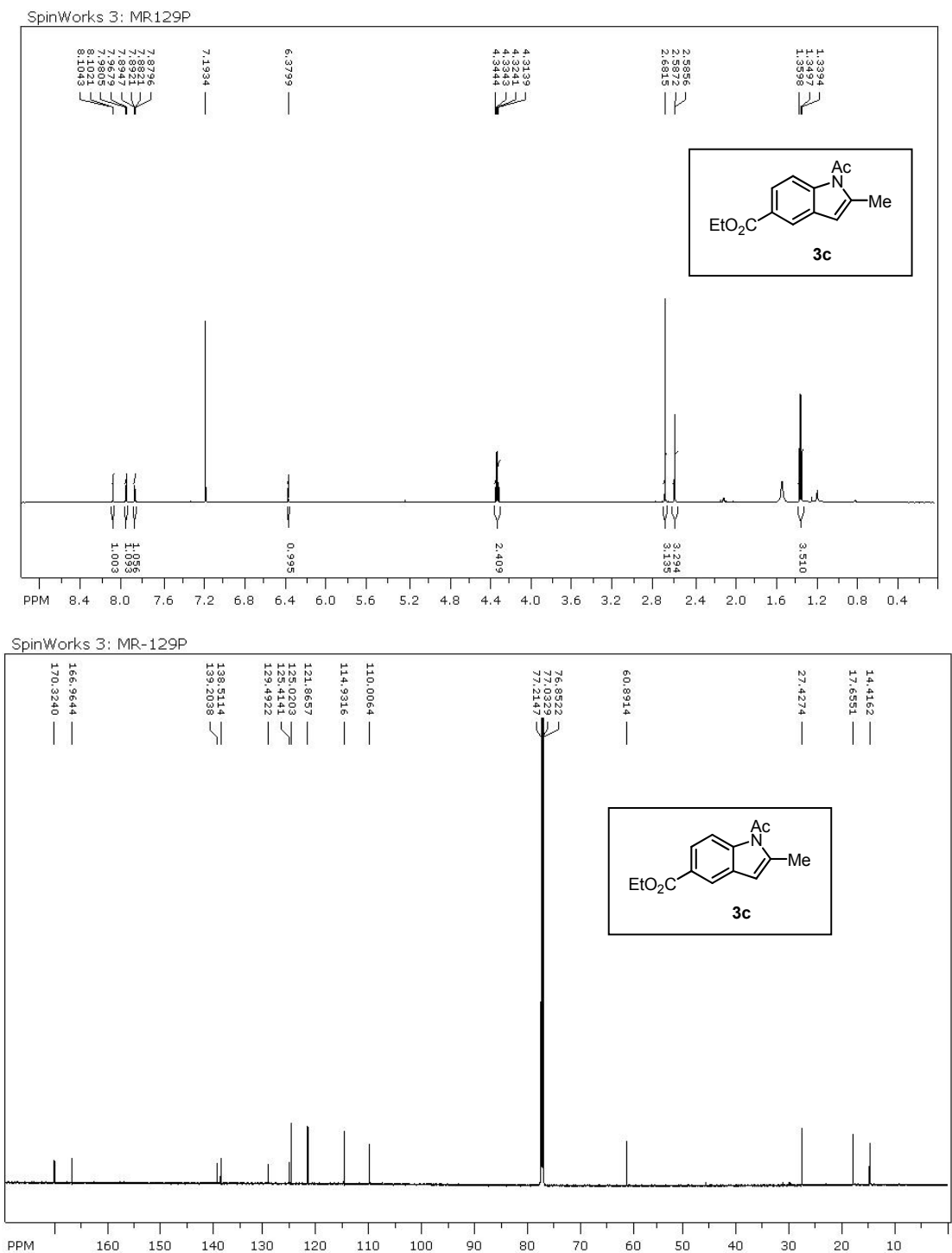


SpinWorks 3: MR137P

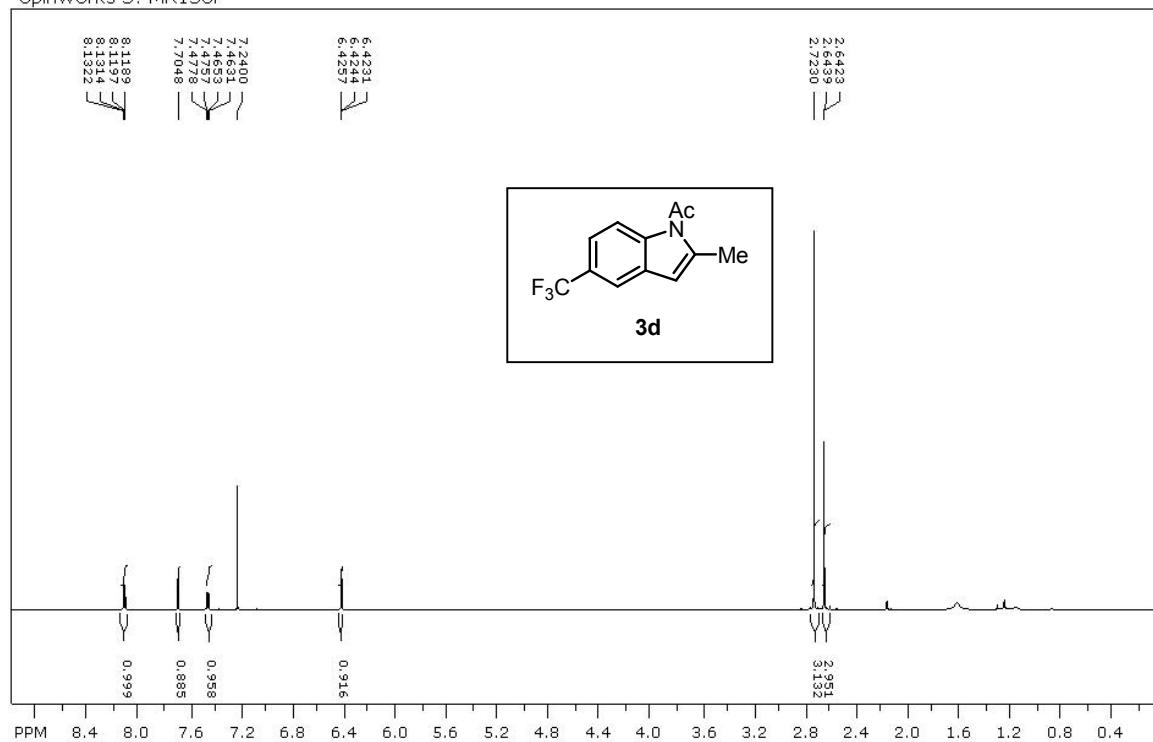


SpinWorks 3: MR-138P

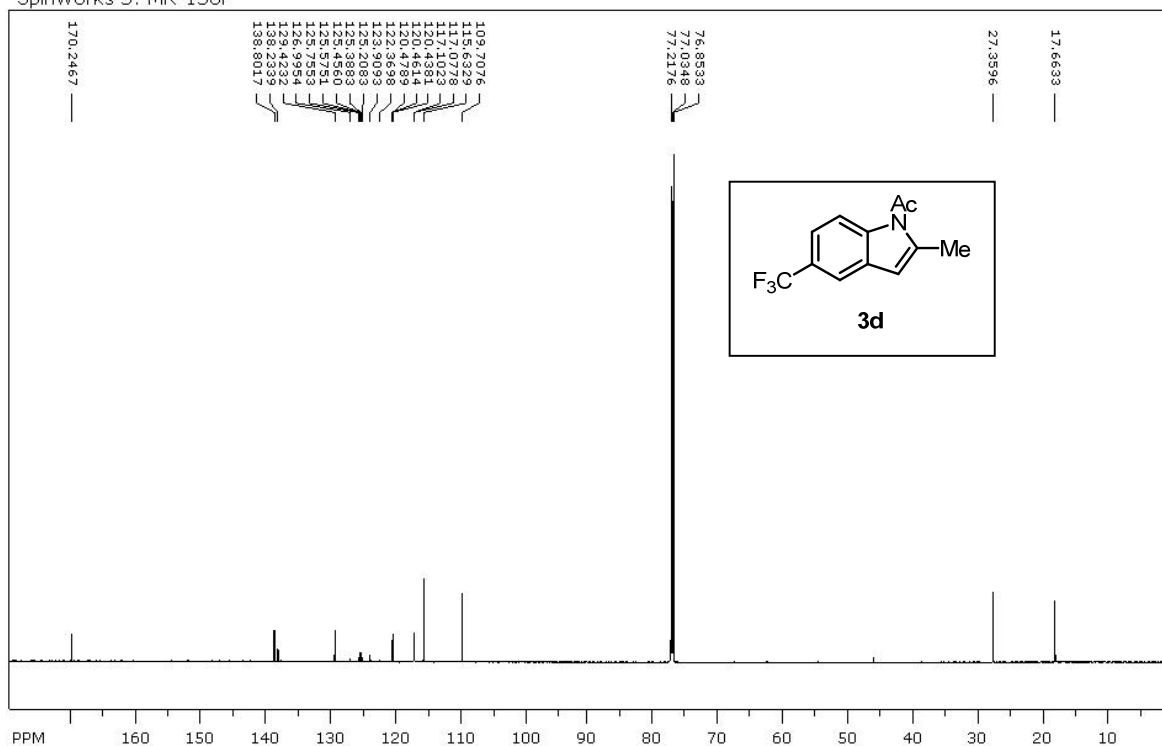




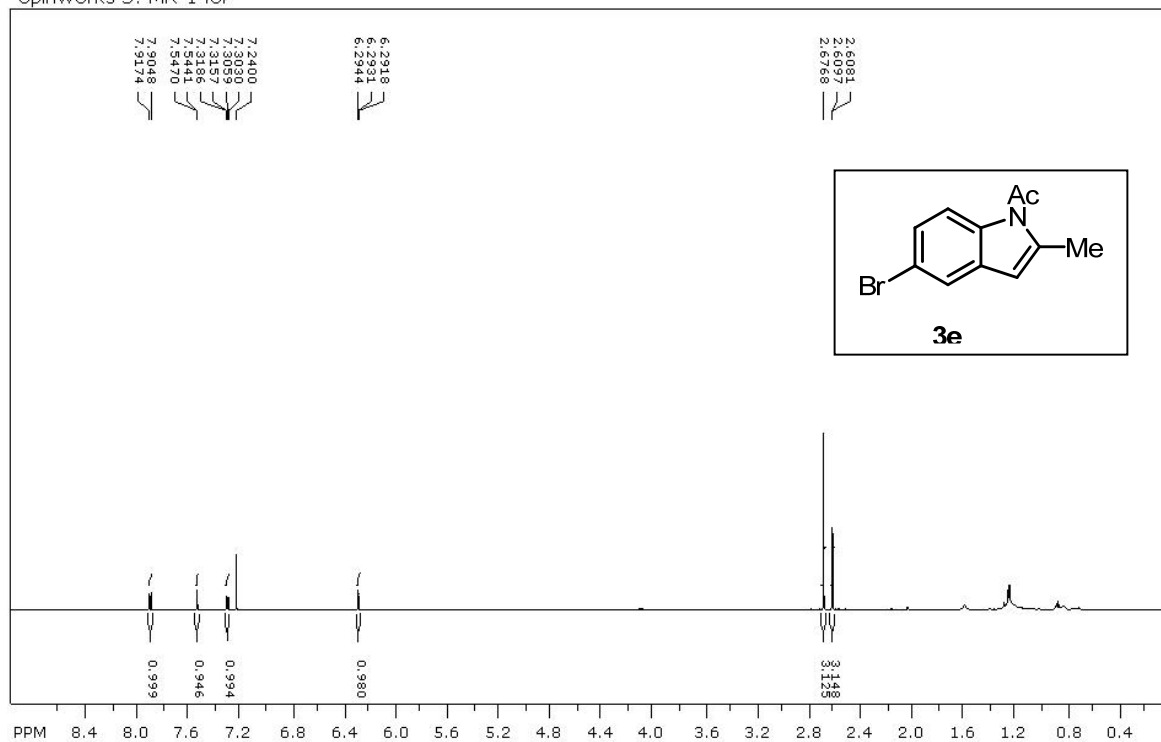
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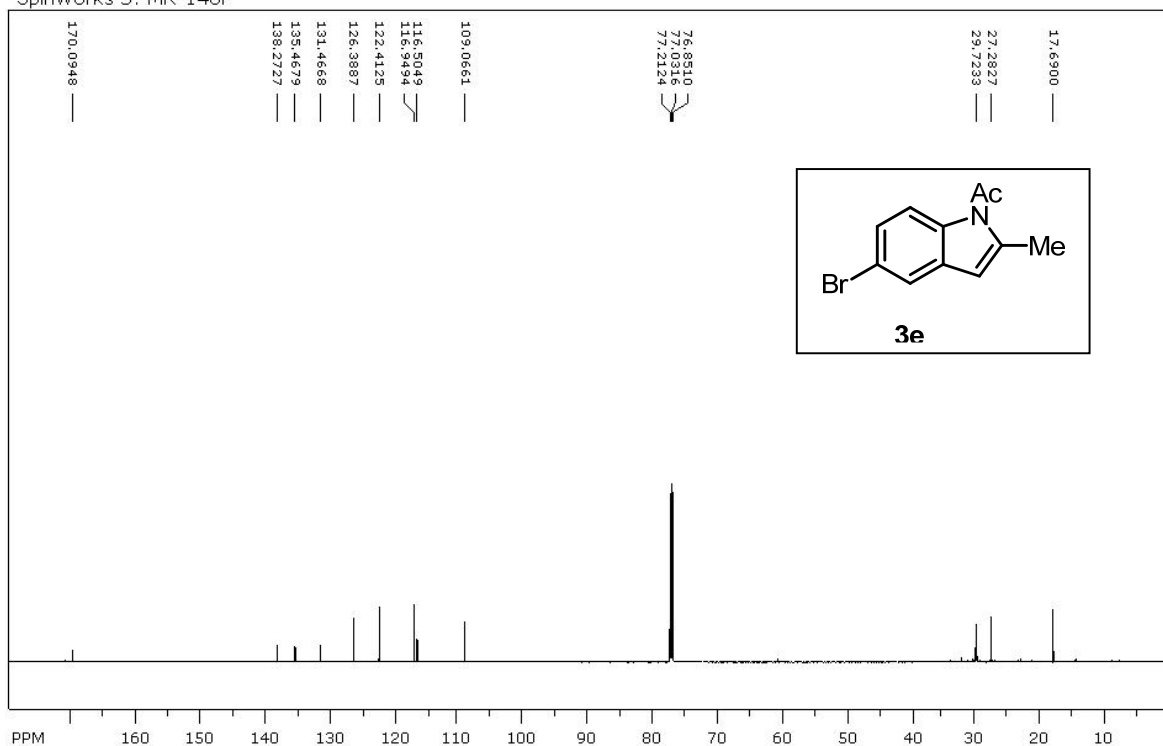
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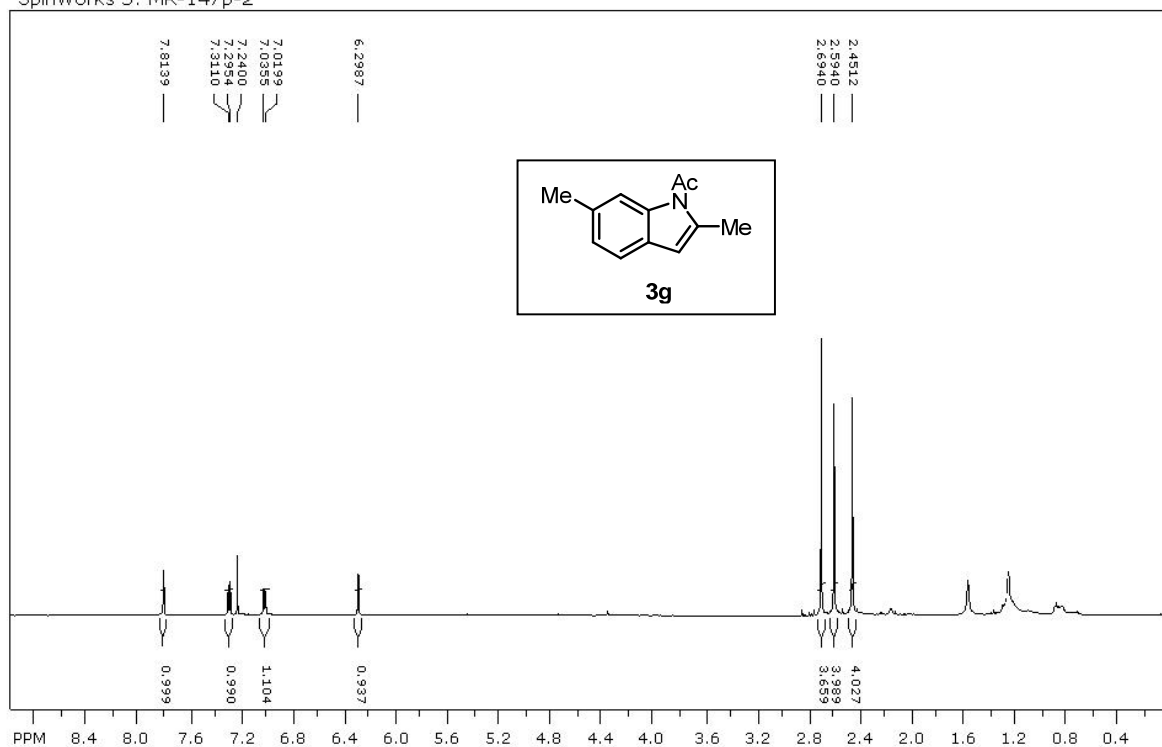
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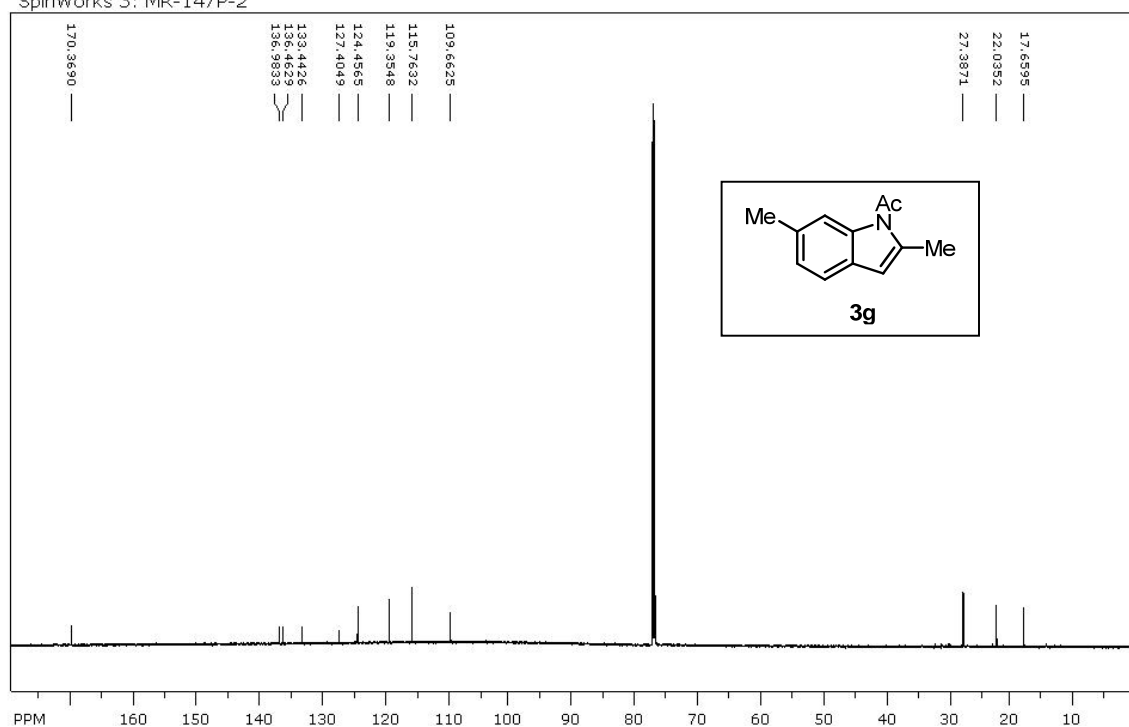
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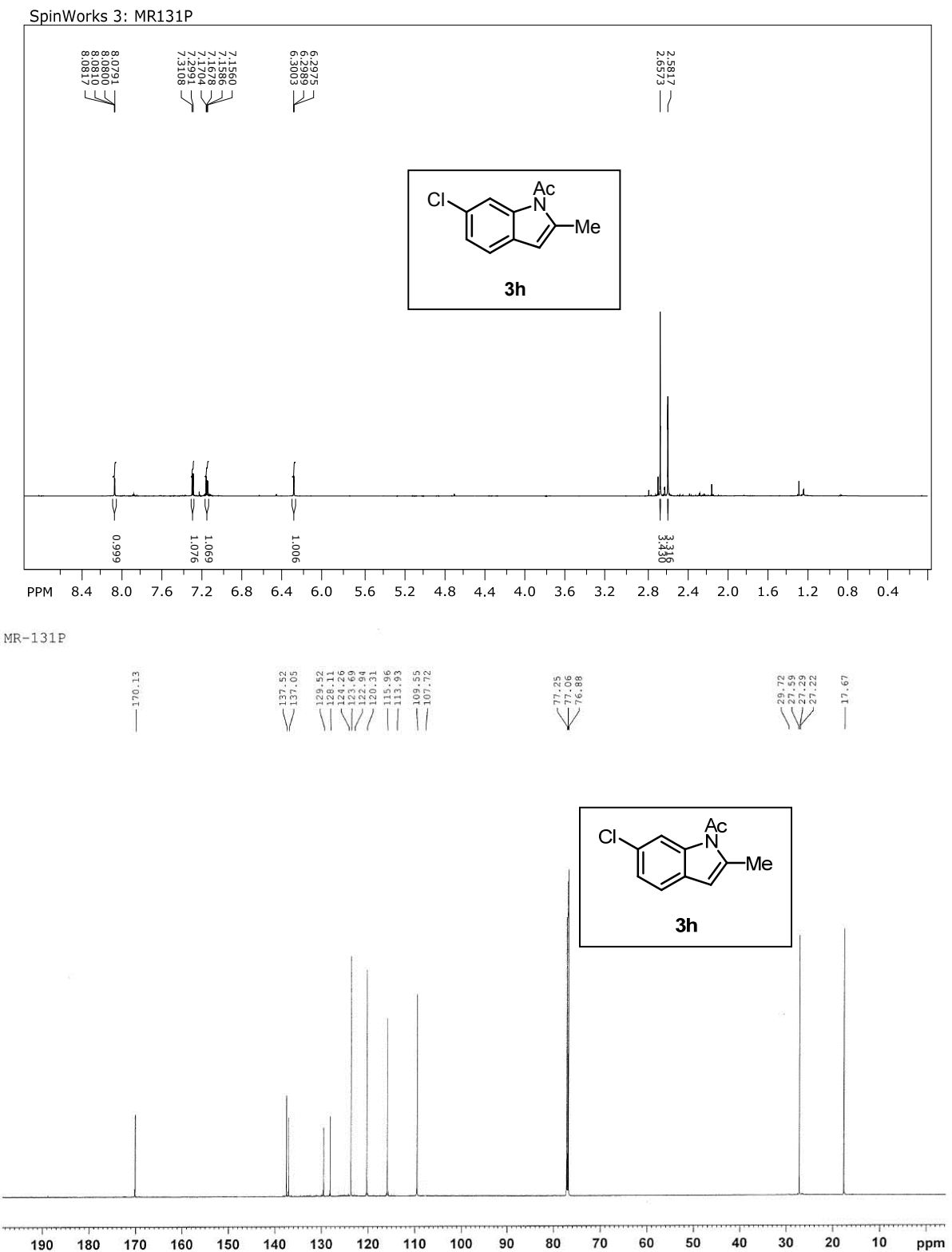


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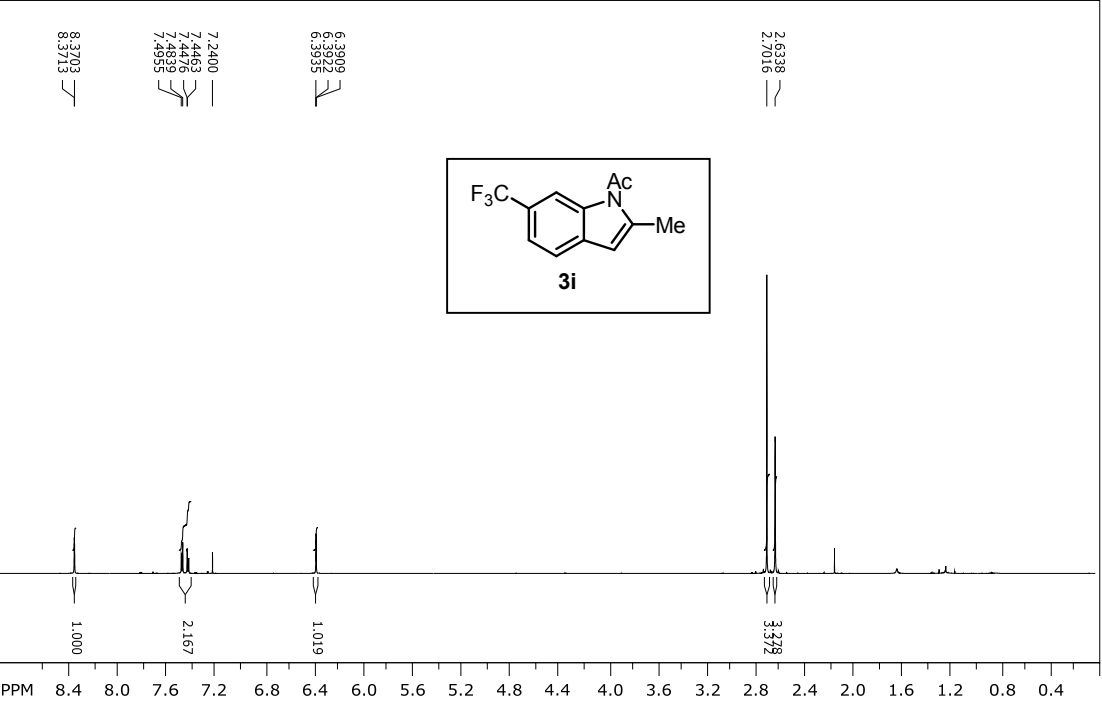


SpinWorks 3: MR-147P-2

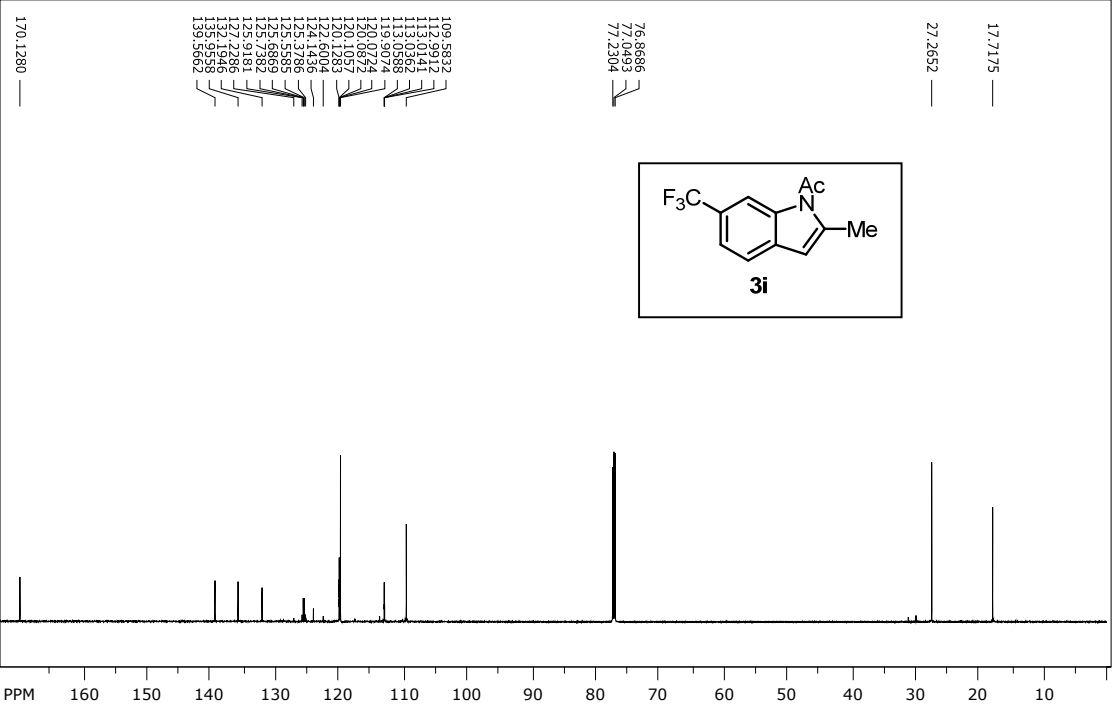


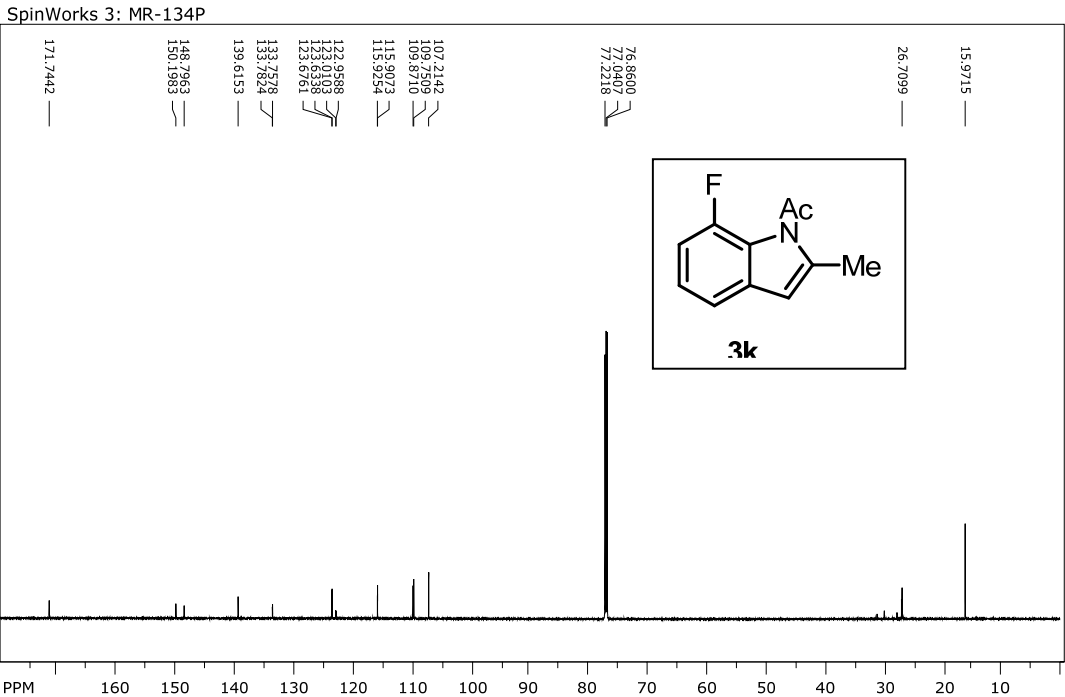
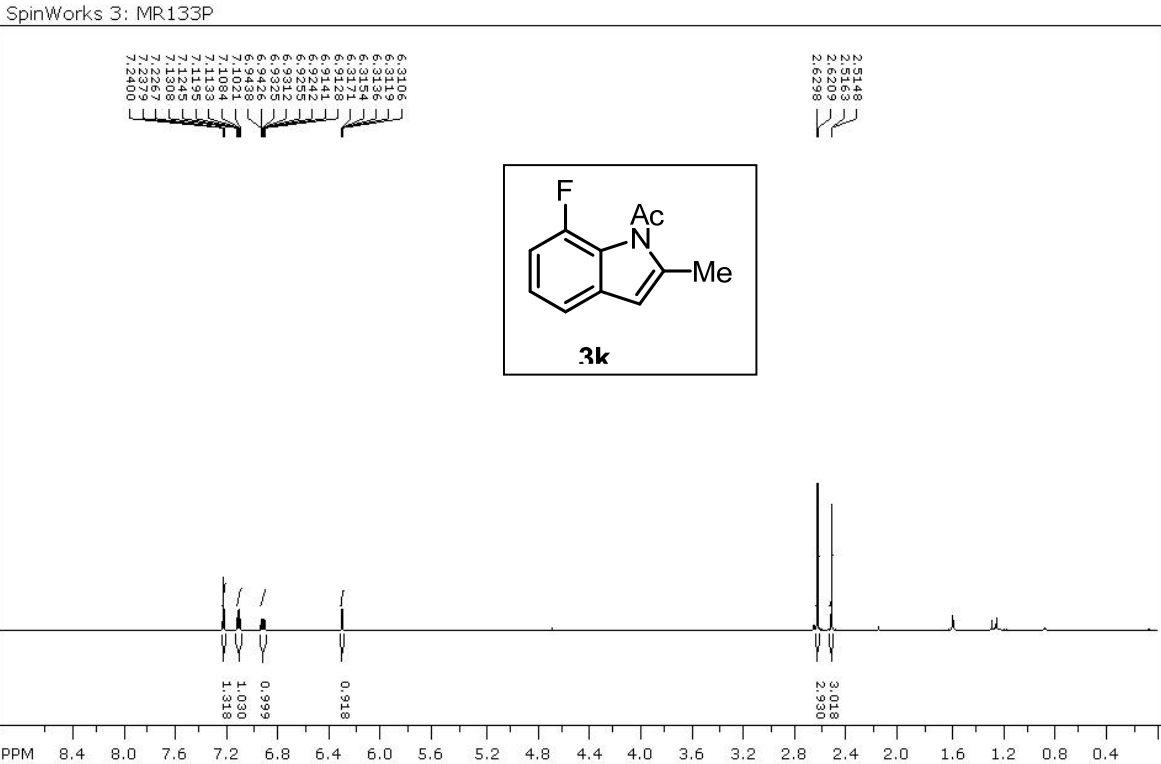


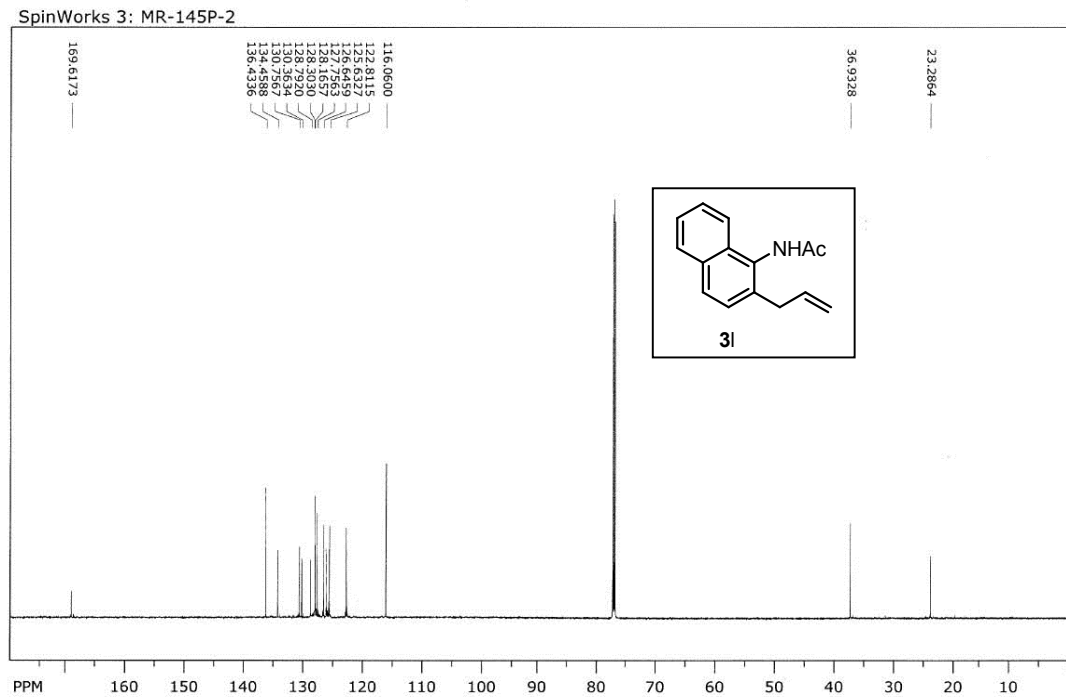
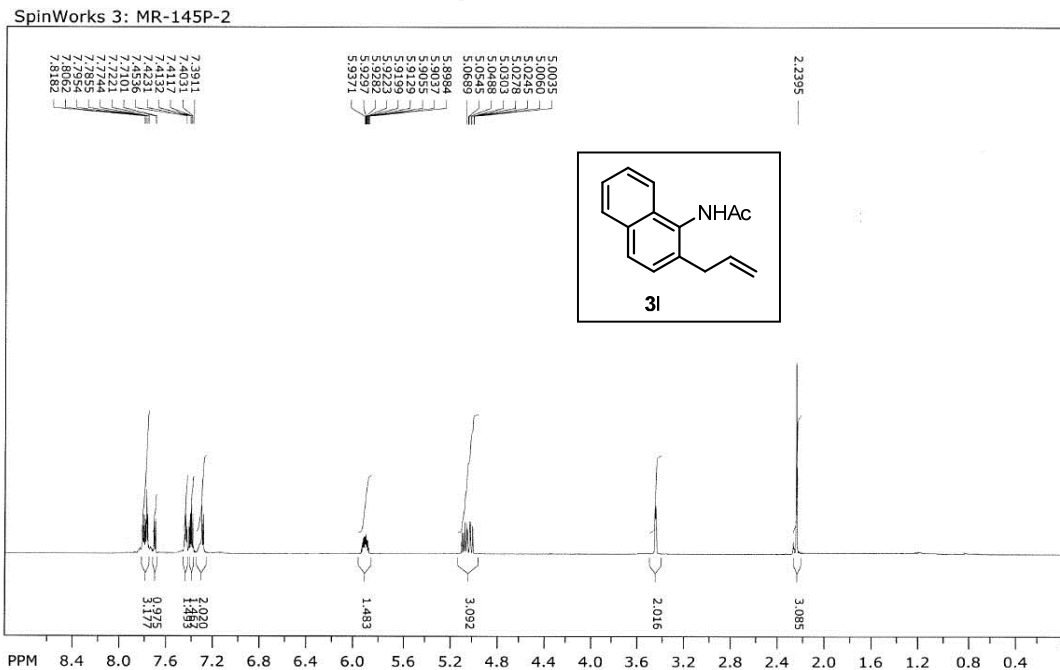
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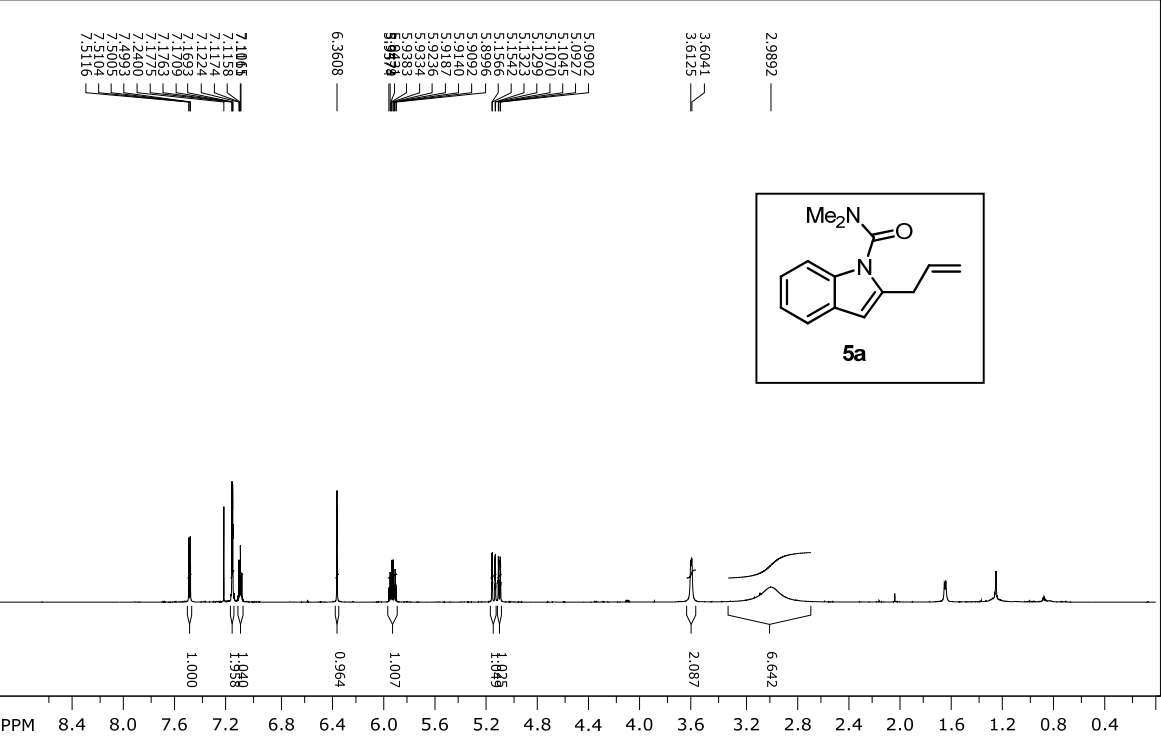
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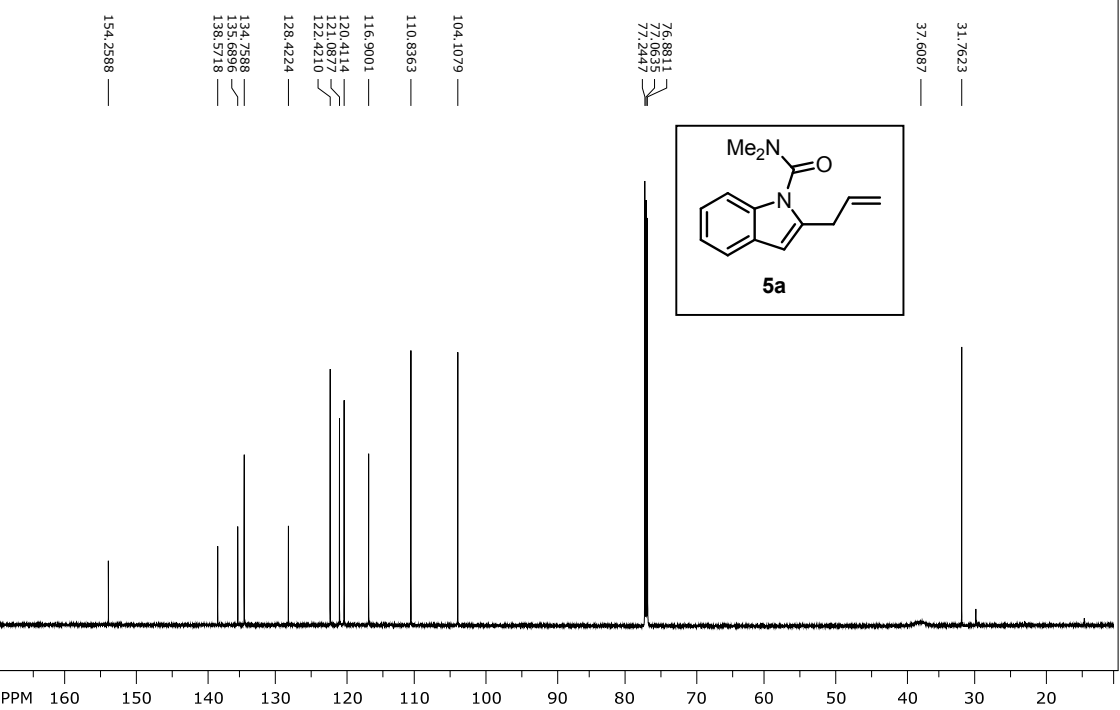




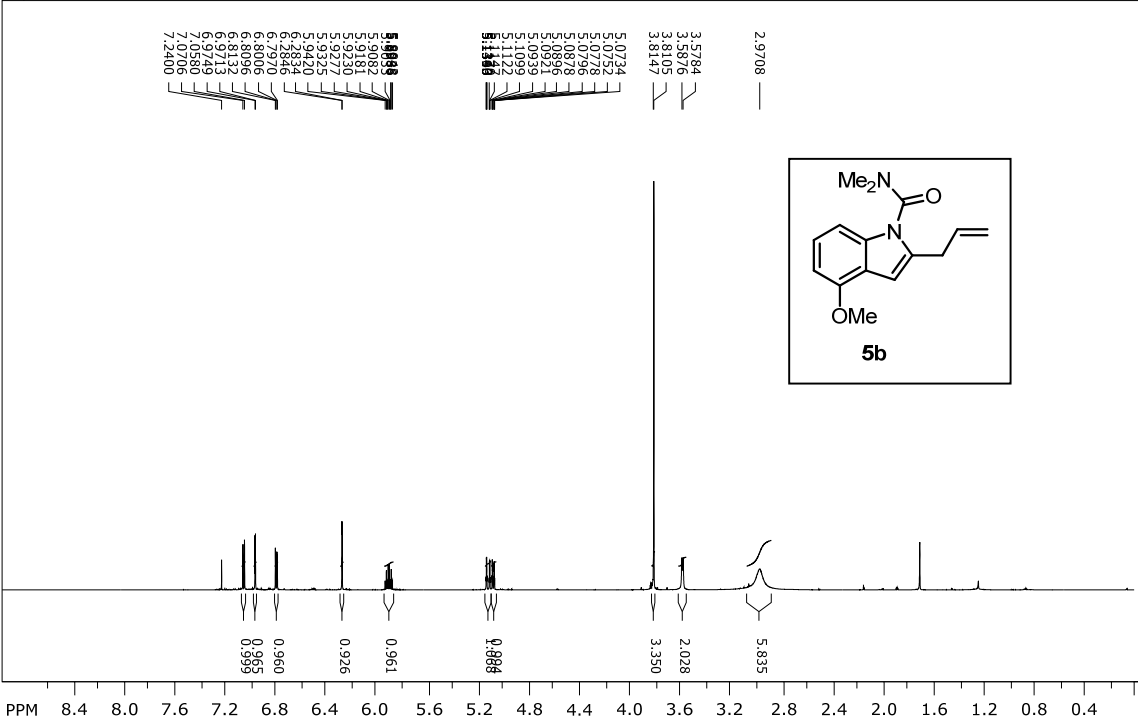
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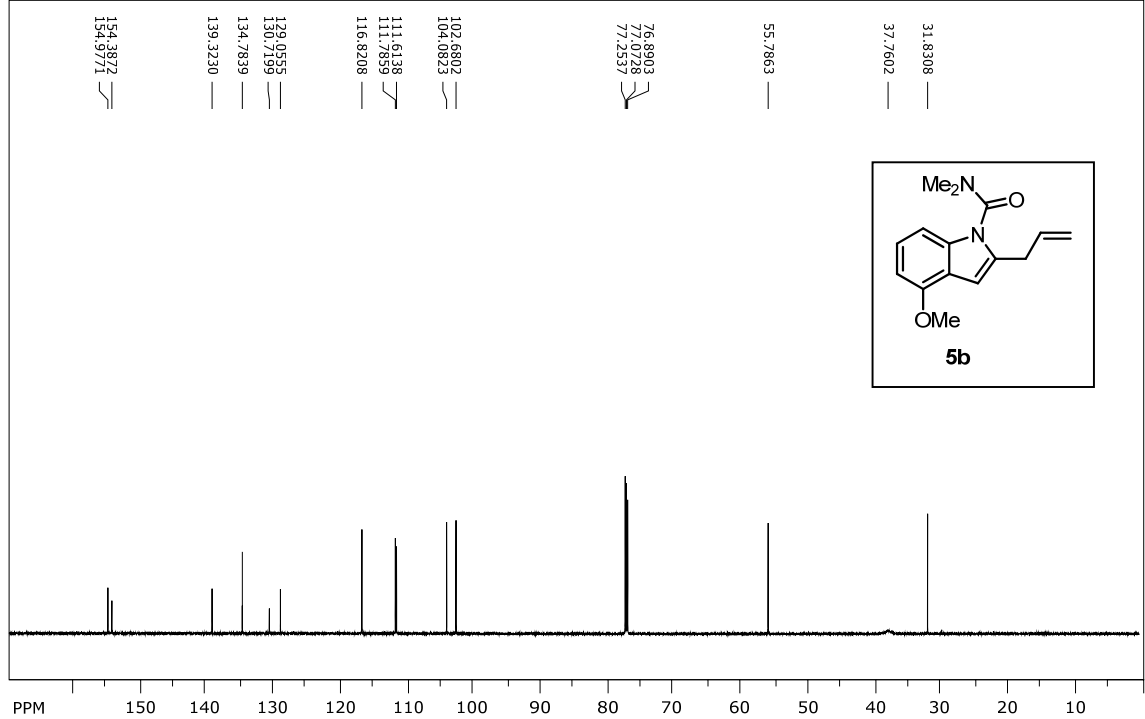
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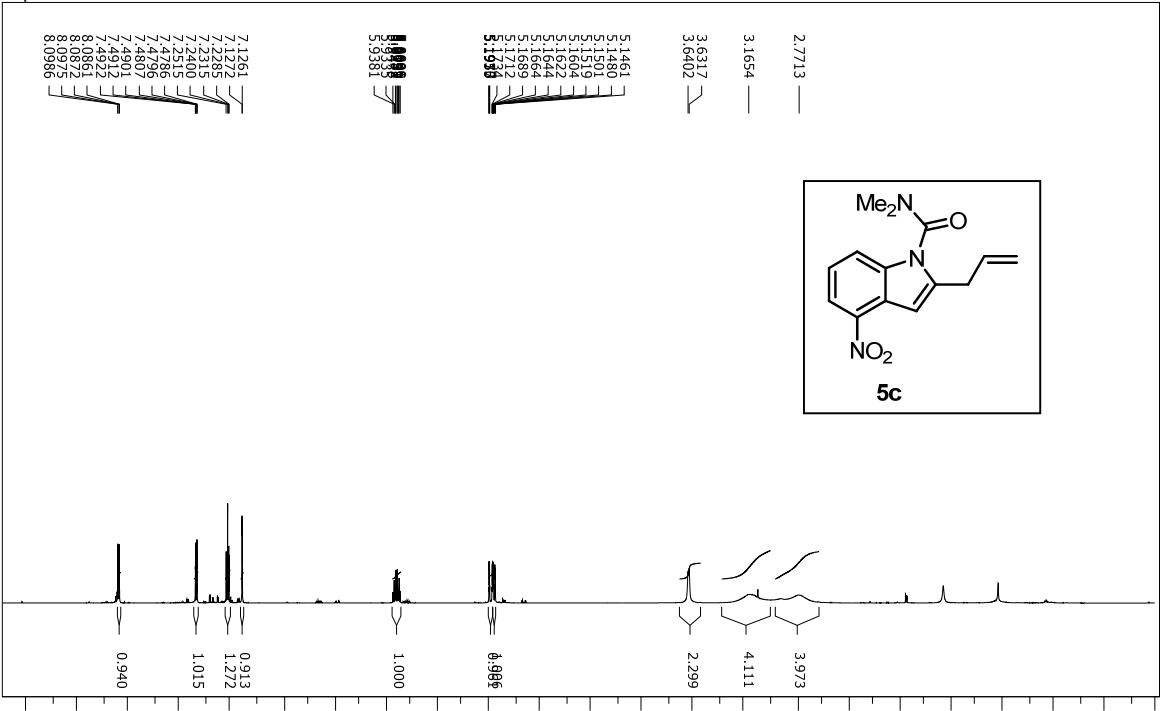
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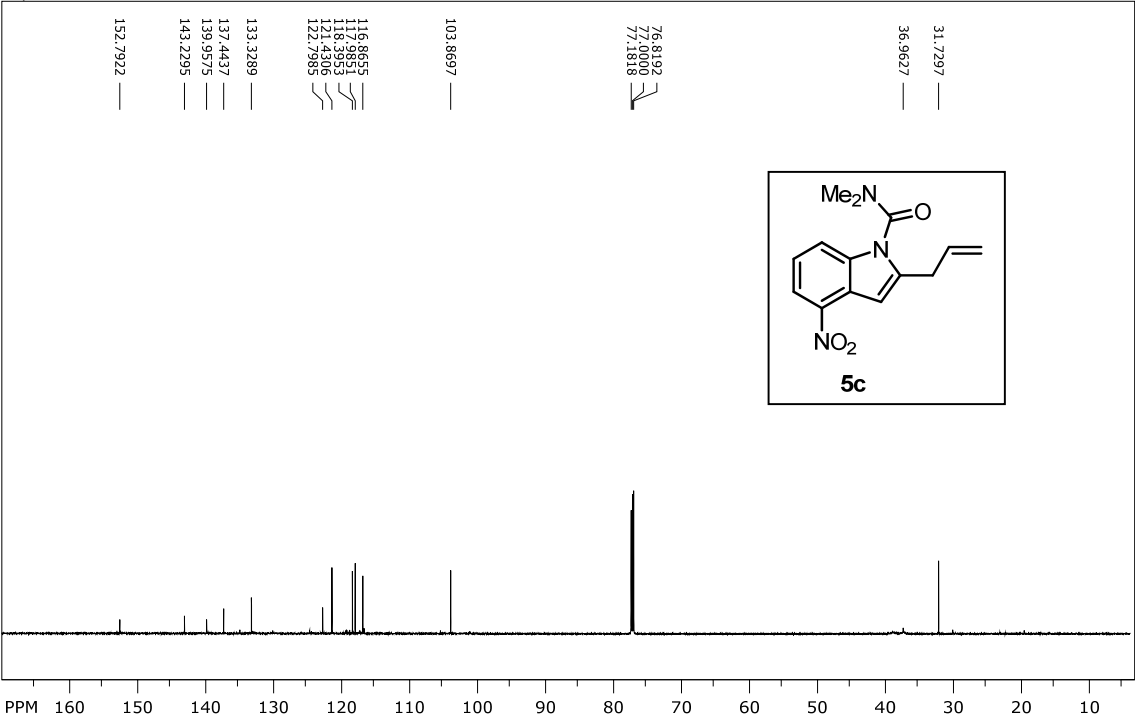
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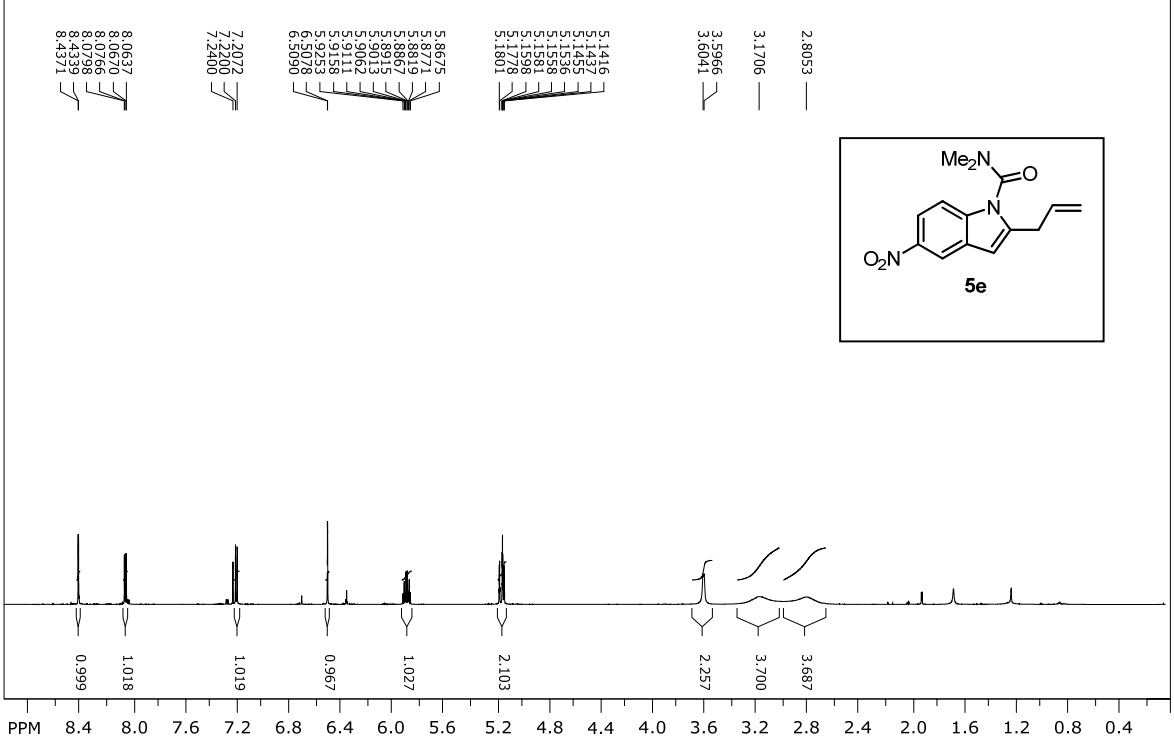
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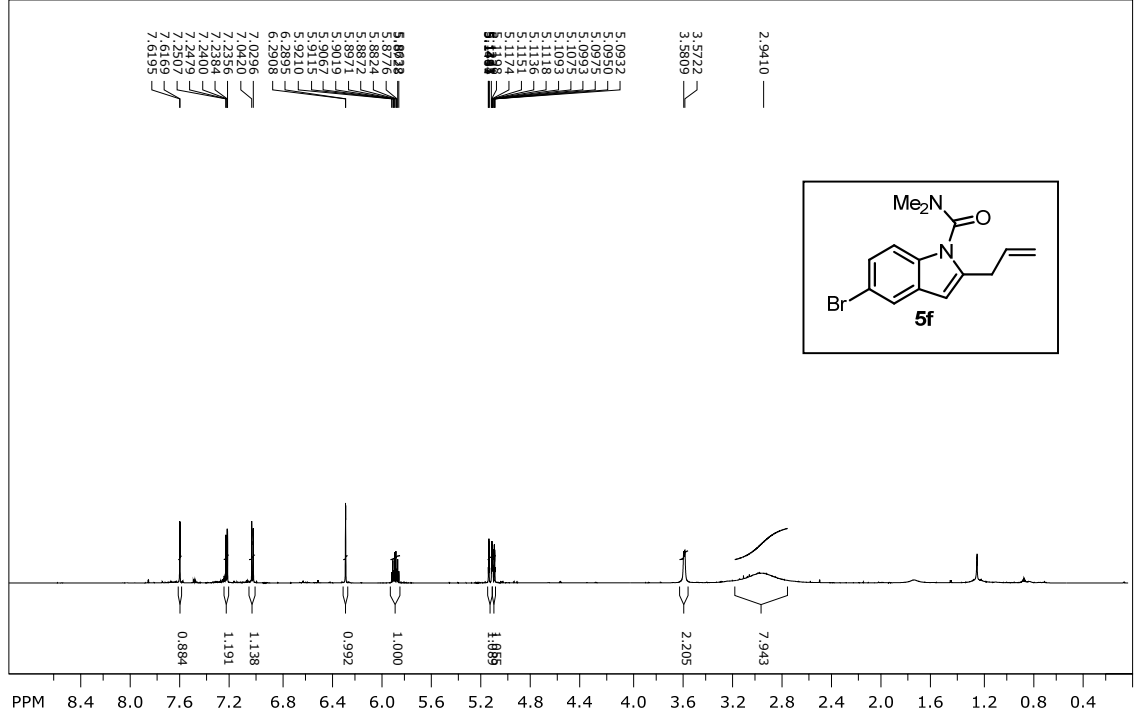
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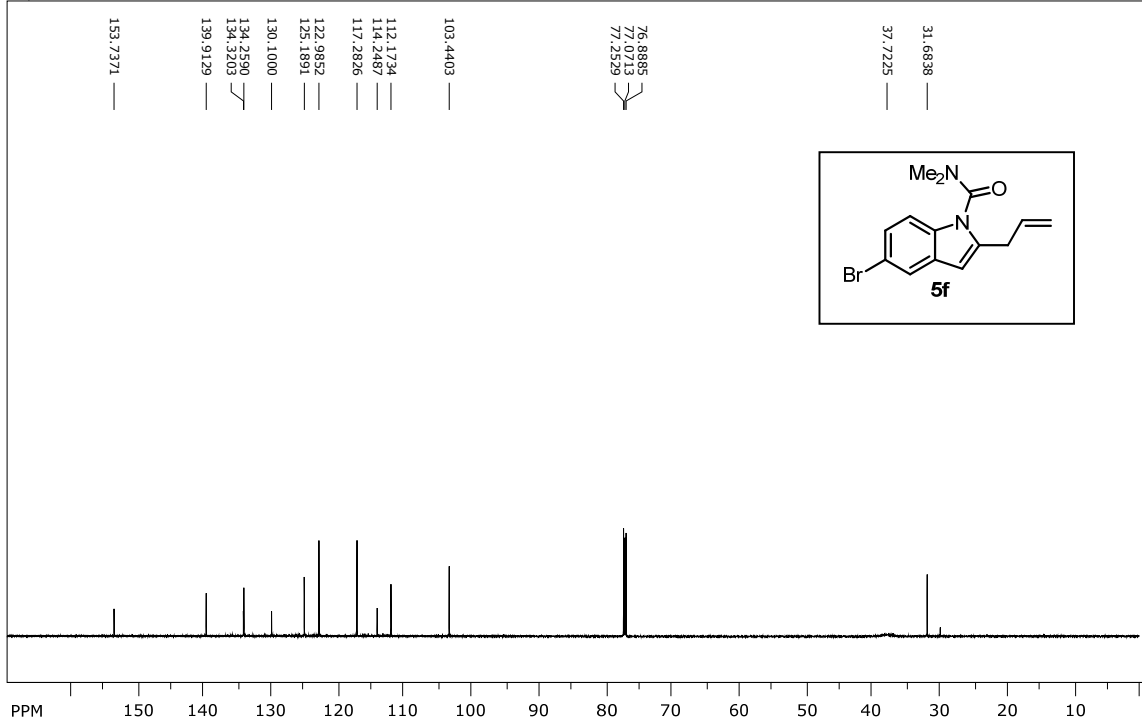
SpinWorks 3: JH936



SpinWorks 3: JH940

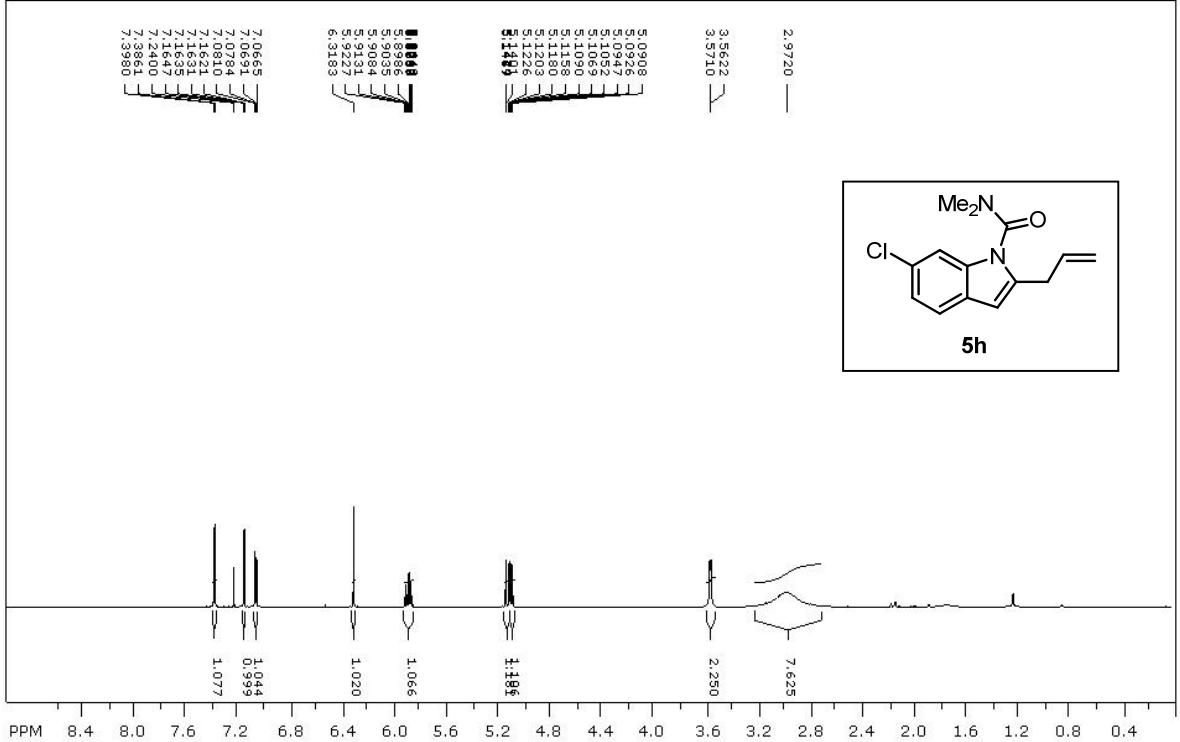


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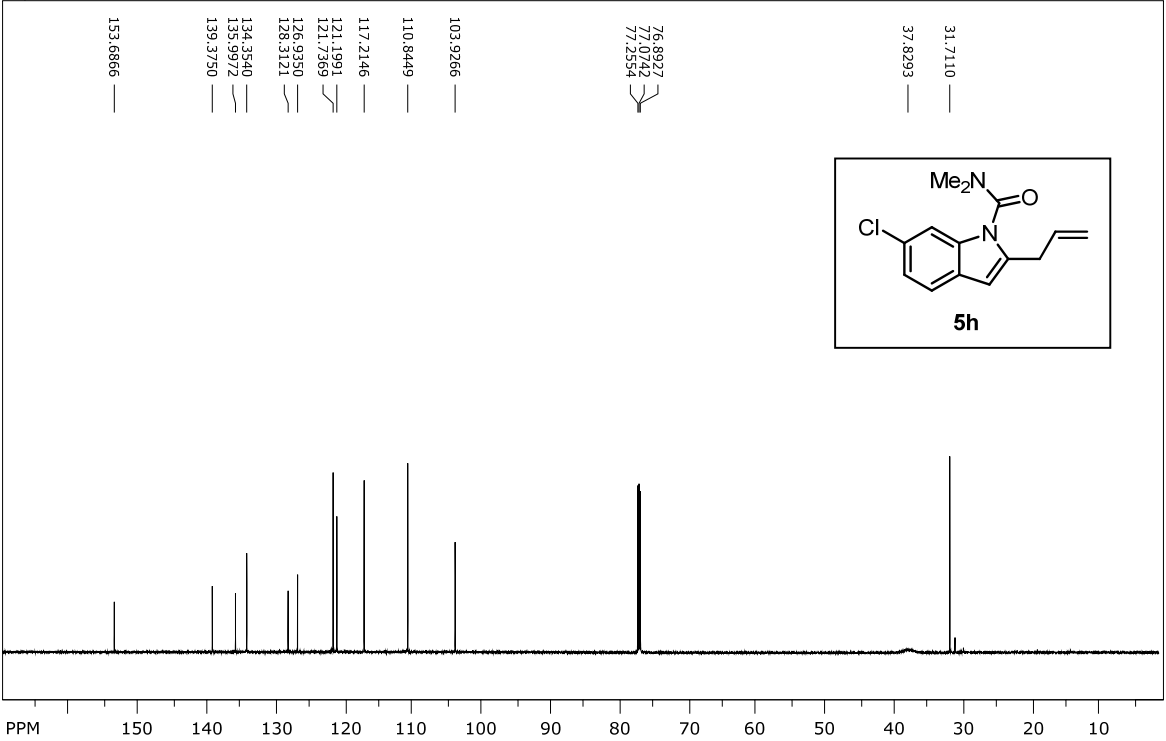


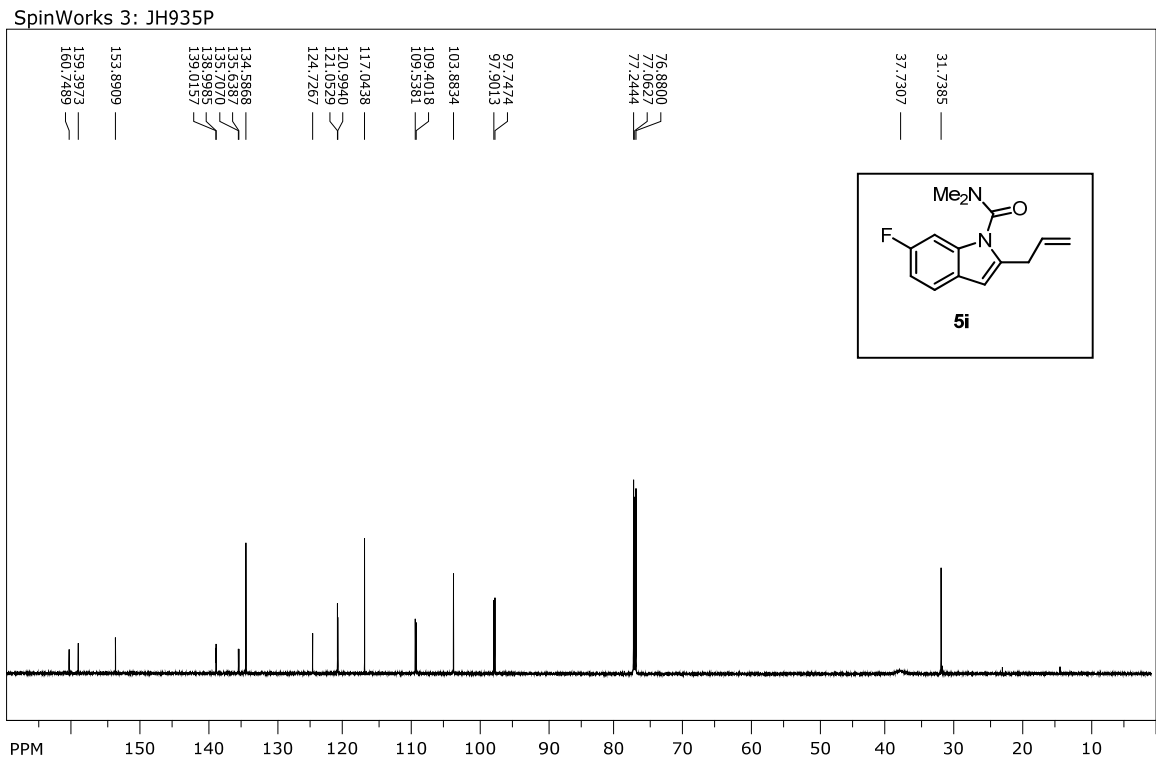
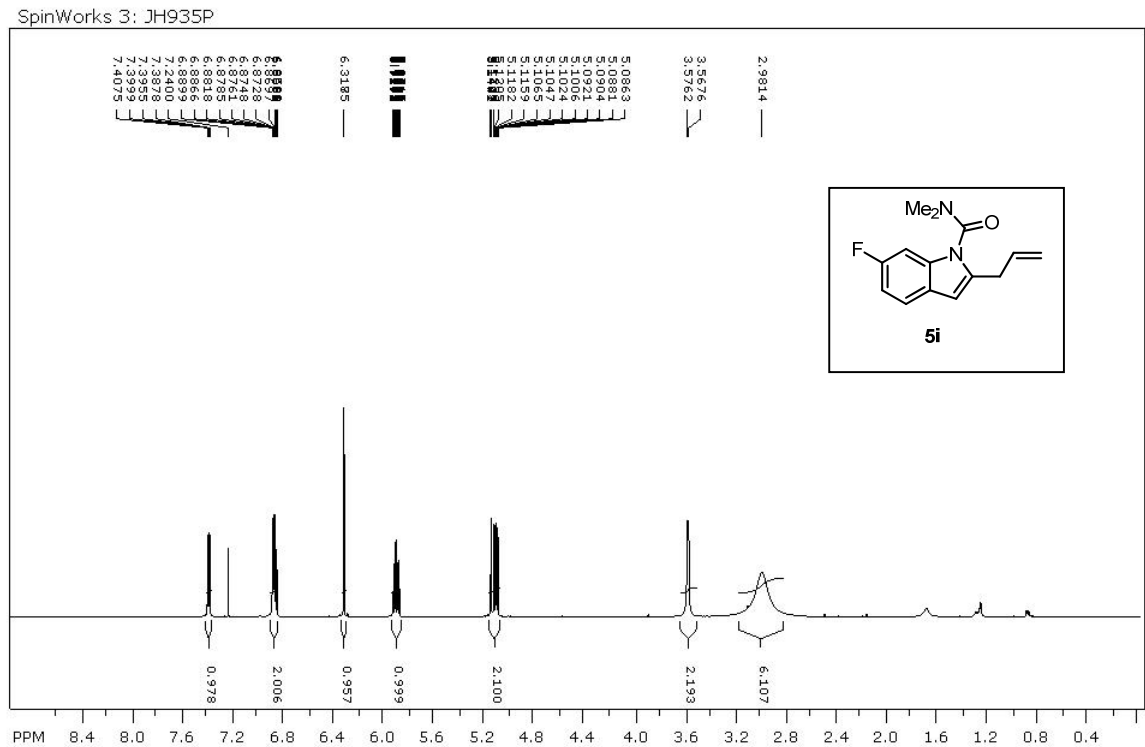


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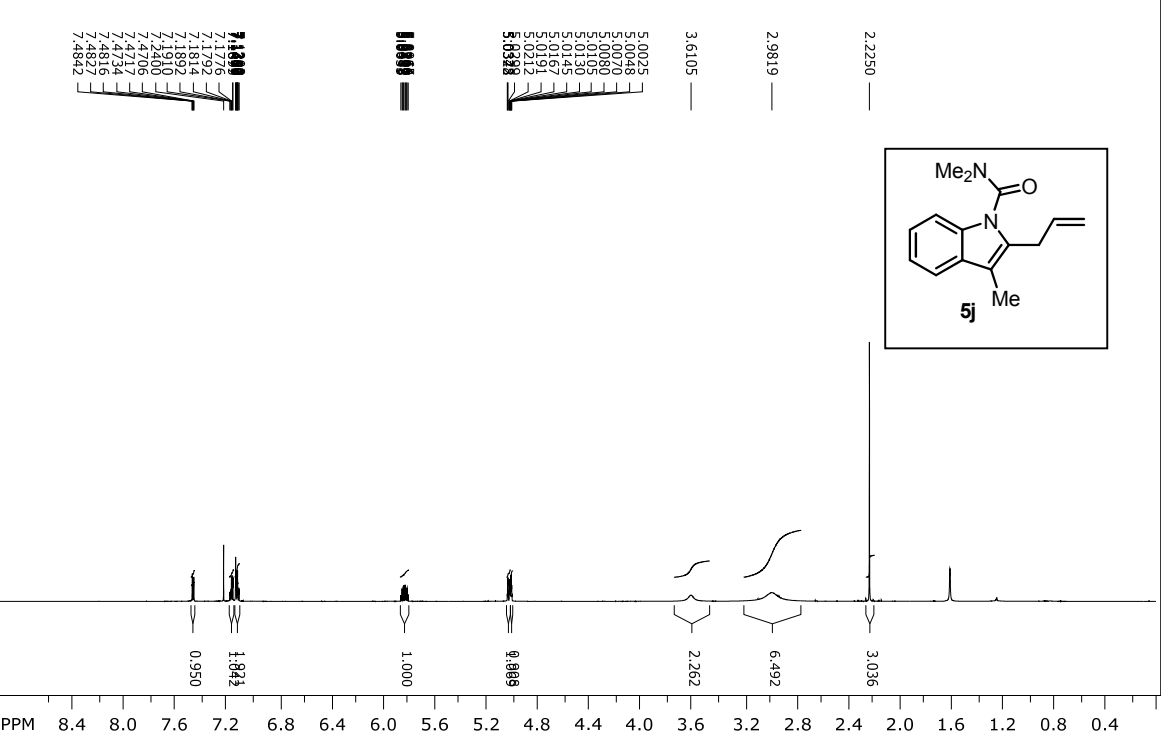


SpinWorks 3: JH943

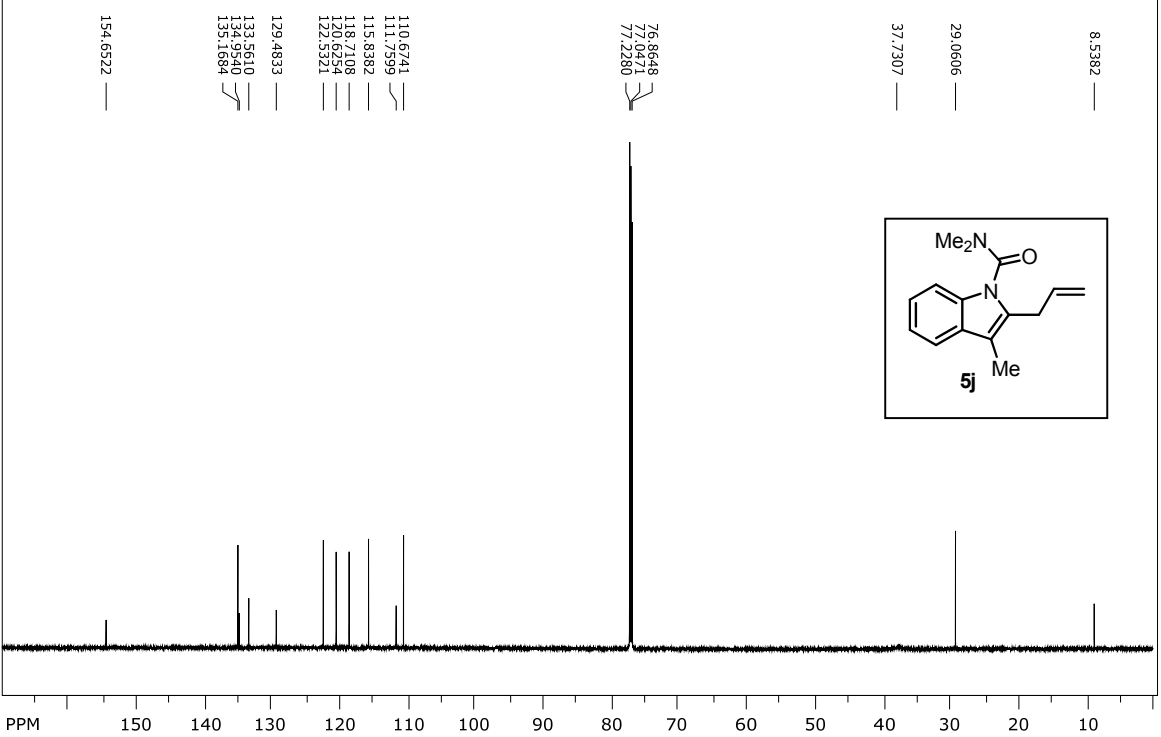




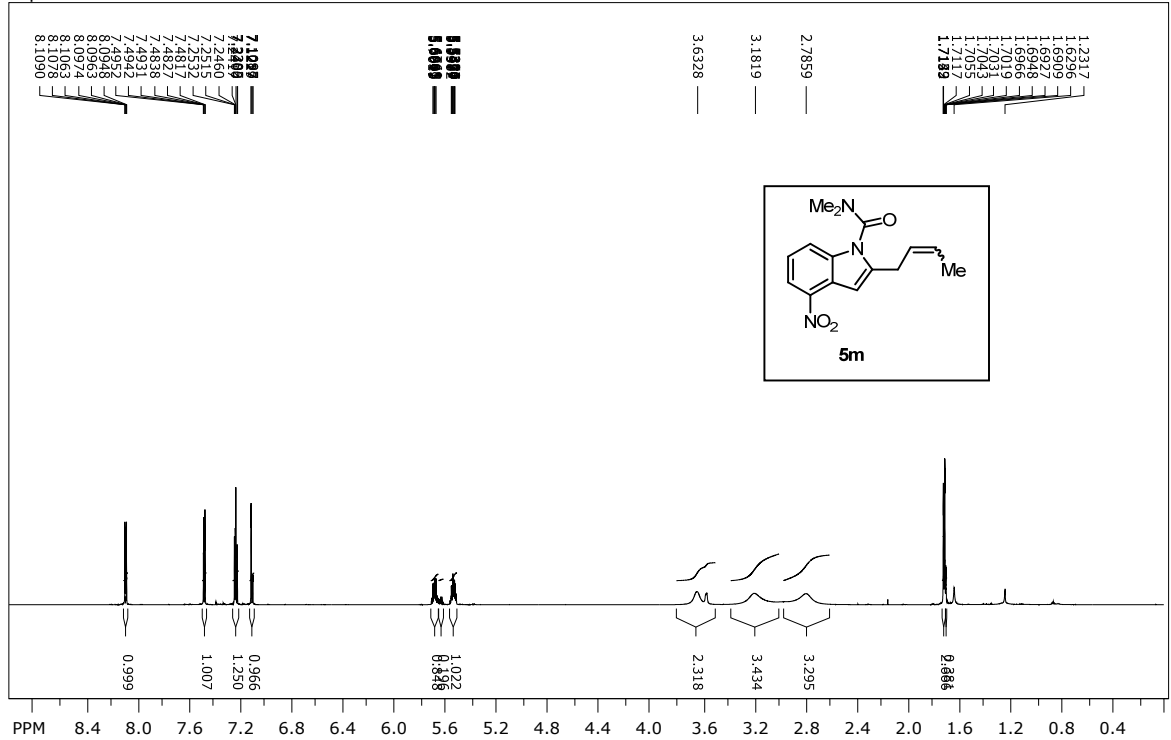
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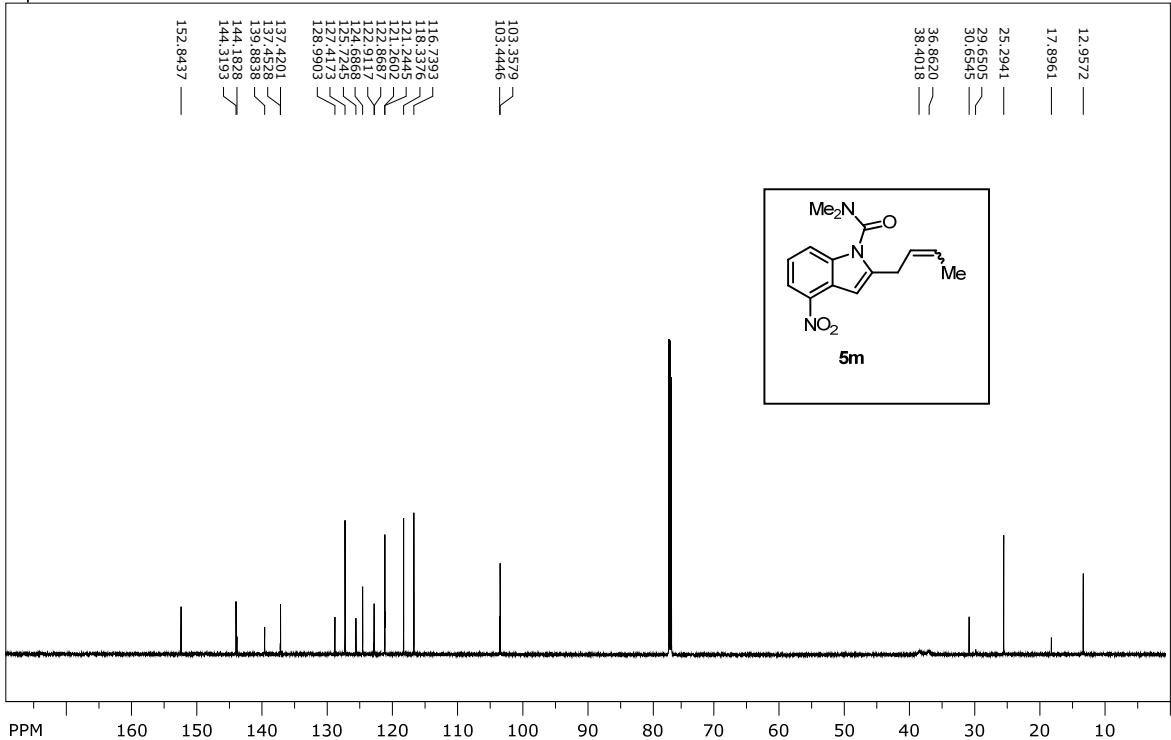
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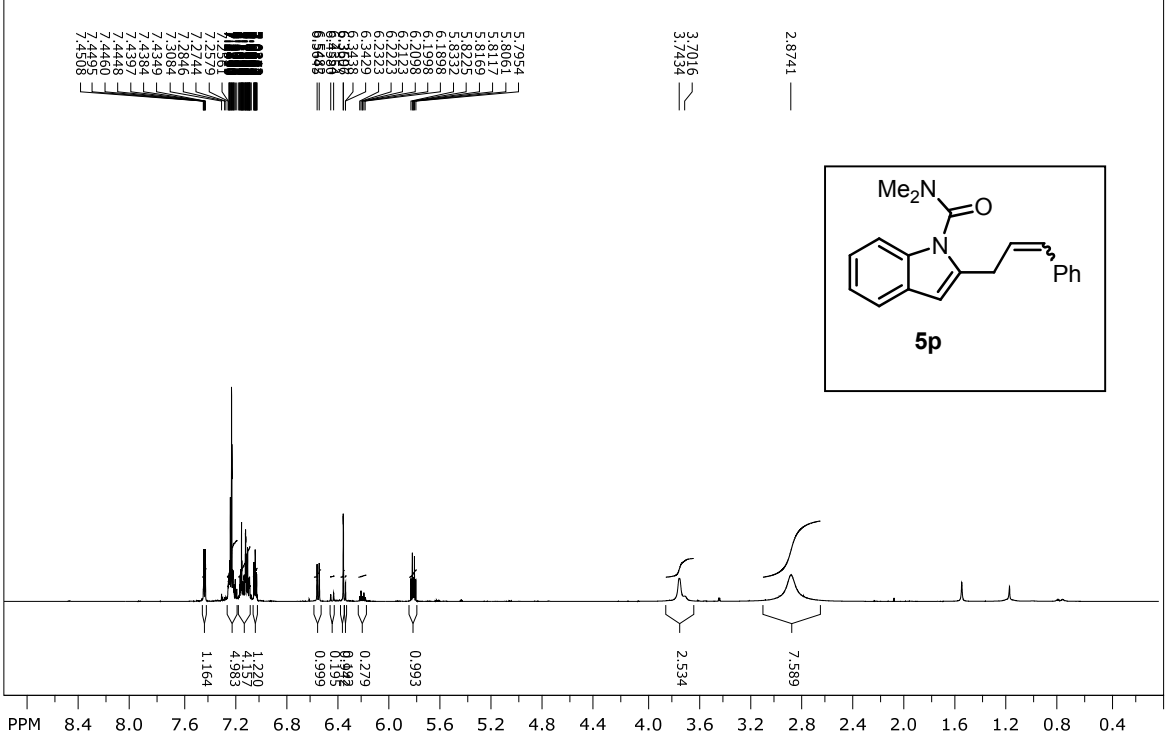
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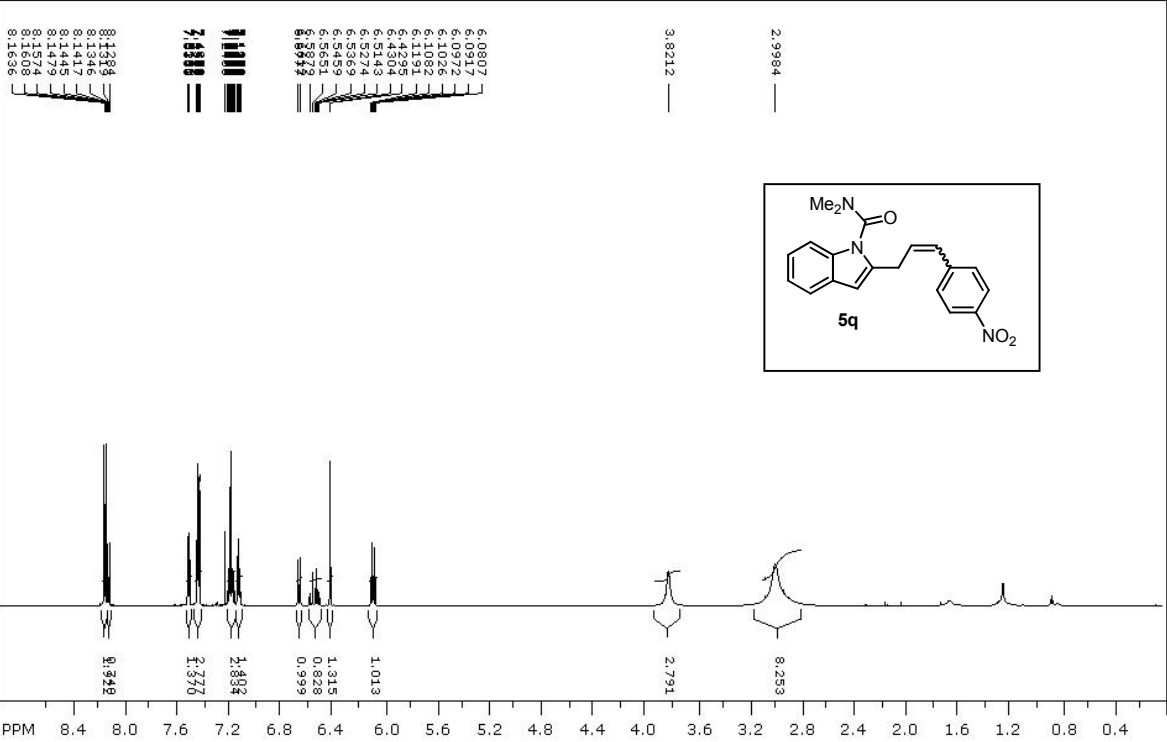
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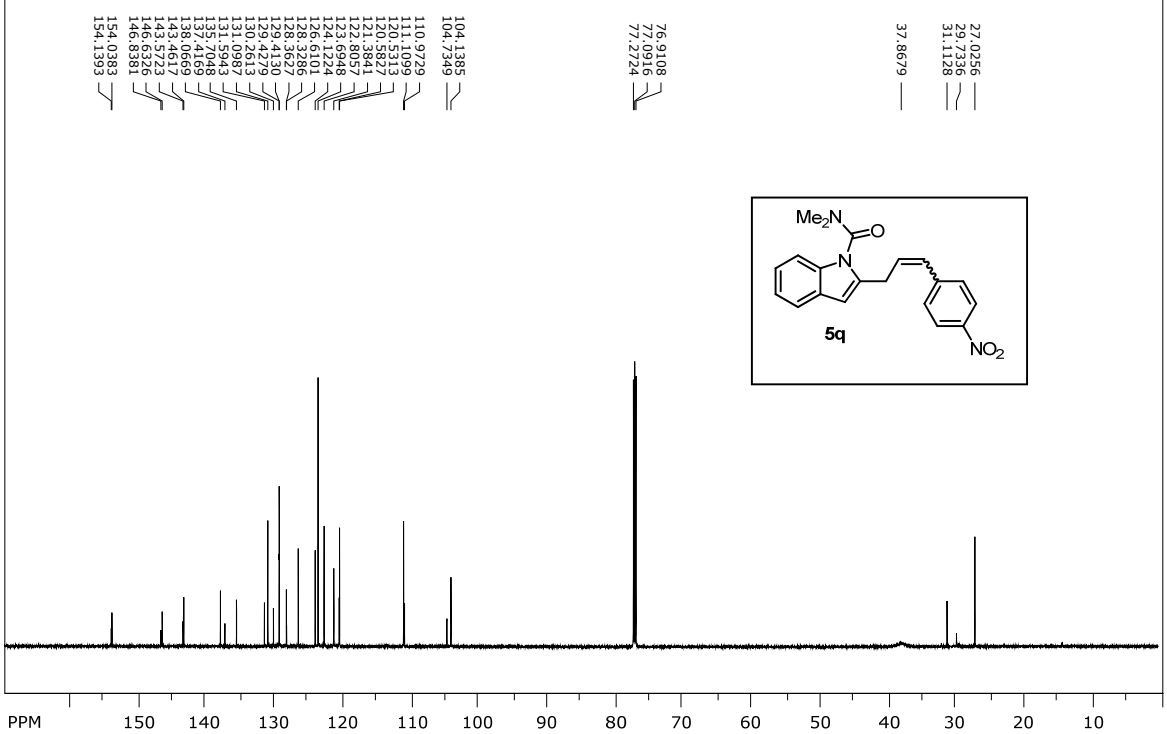
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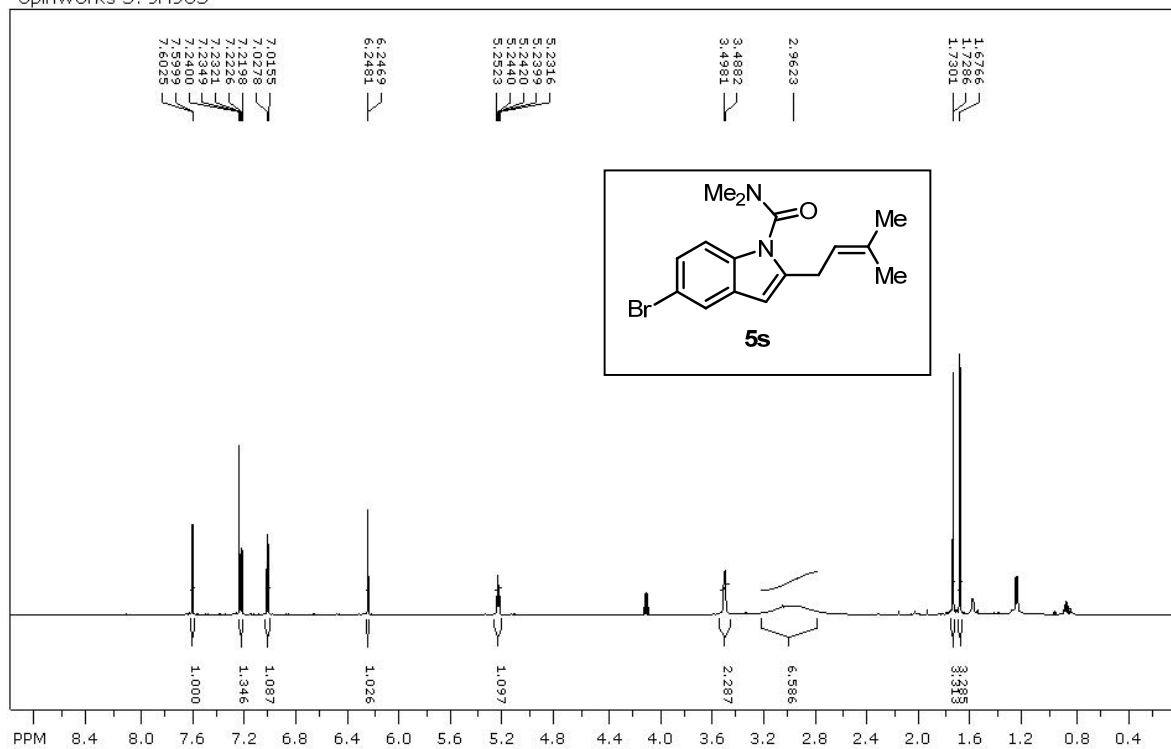
SpinWorks 3: JH-964



SpinWorks 3: JH-964



SpinWorks 3: JH983



SpinWorks 3: JH983

