

Supplementary Material
Synthesis of aryl-substituted indanones and indenenes
via a highly efficient ligand-free palladium-catalyzed
Suzuki coupling process

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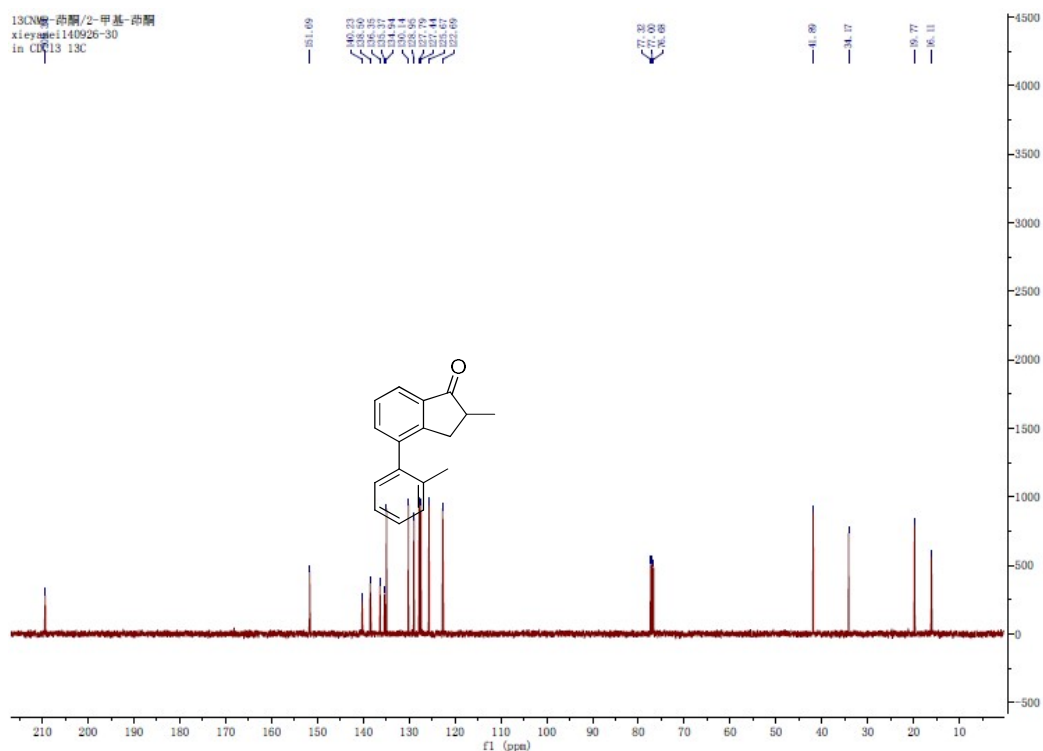
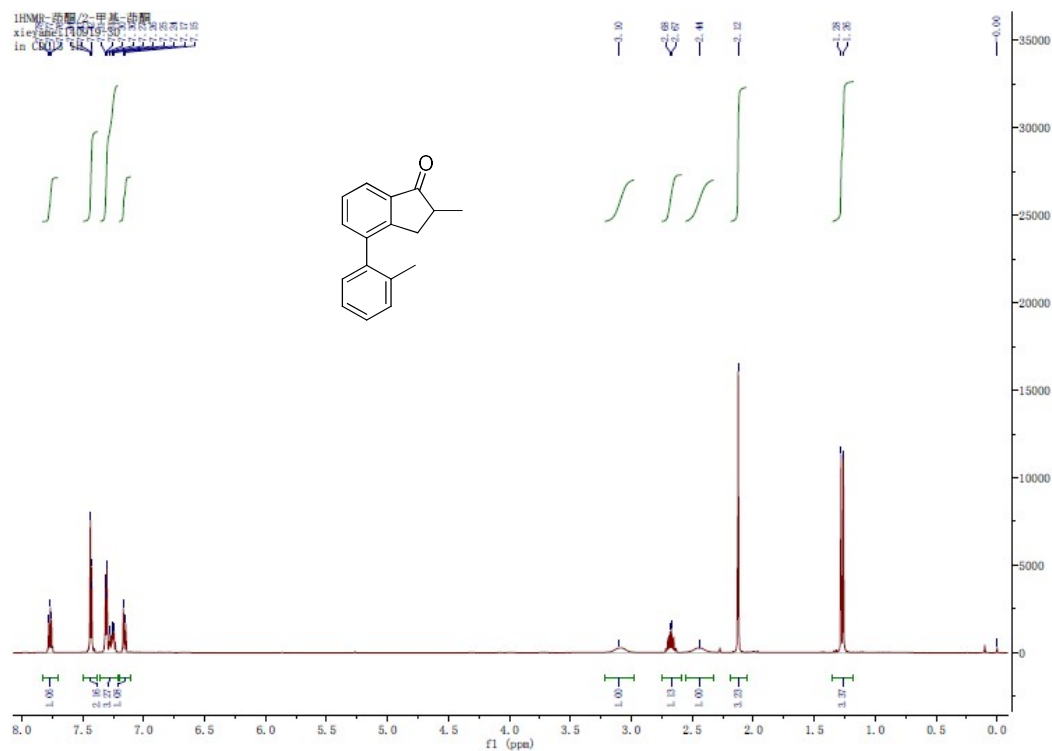
^b *PetroChina Petrochemical Research Institute, Block A42, PetroChina Innovation
Base,*

Shahe Township, Changping District, Beijing 102206, P. R. China

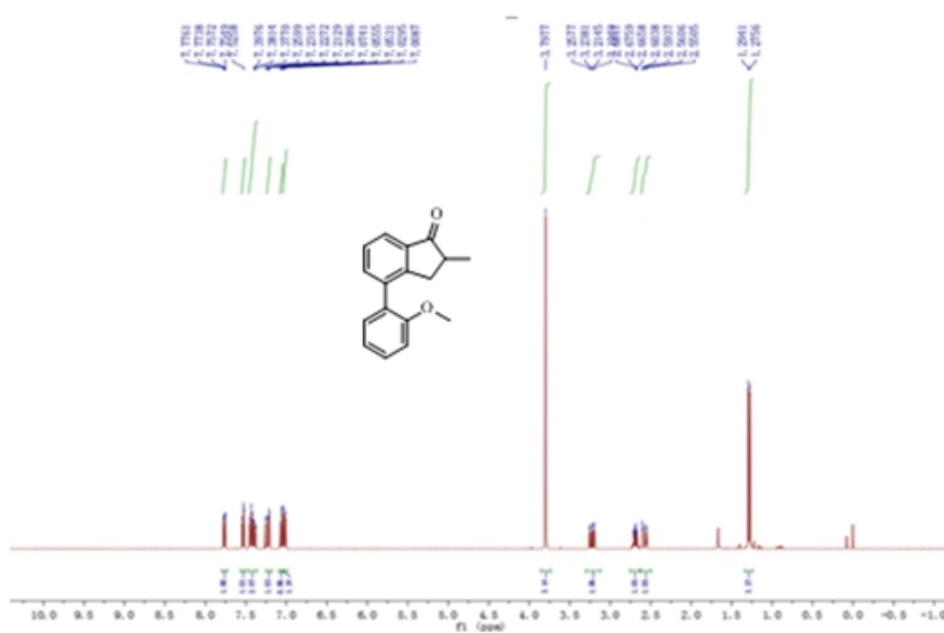
E-mail: song-ym@dlut.edu.cn; xinshixuan@petrochina.com.cn

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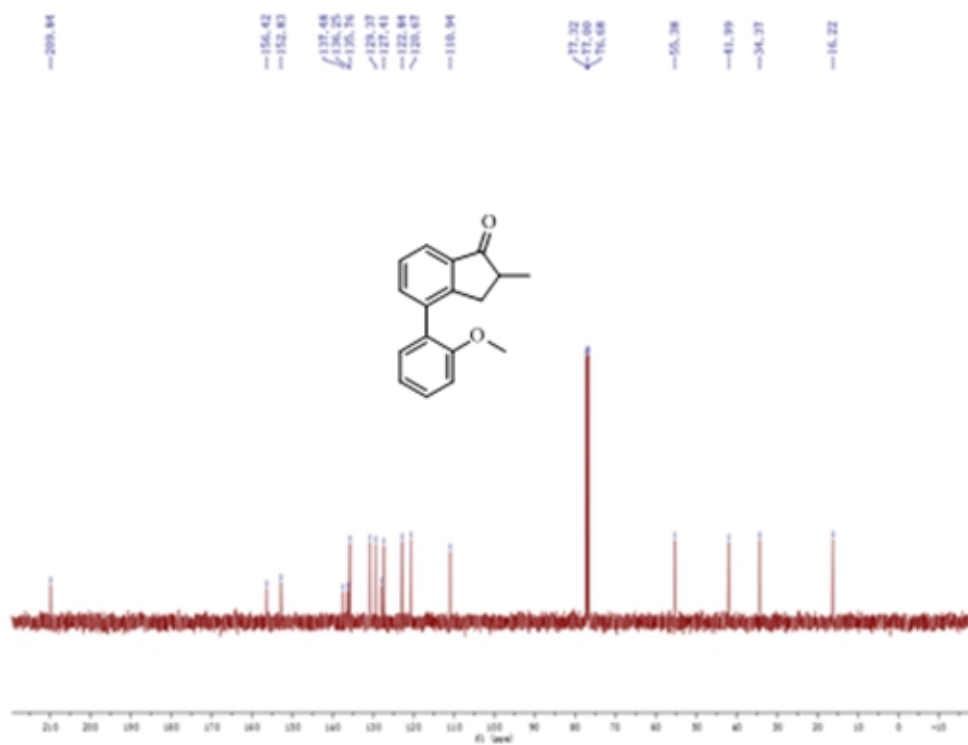
1. ¹H and ¹³C NMR spectra of 4-aryl-2-methyl substituted indanones
2. ¹H and ¹³C NMR spectra of 7-aryl-2-methyl substituted indenenes

1 ^1H and ^{13}C NMR spectra of 4-aryl-2-methyl substituted indenones

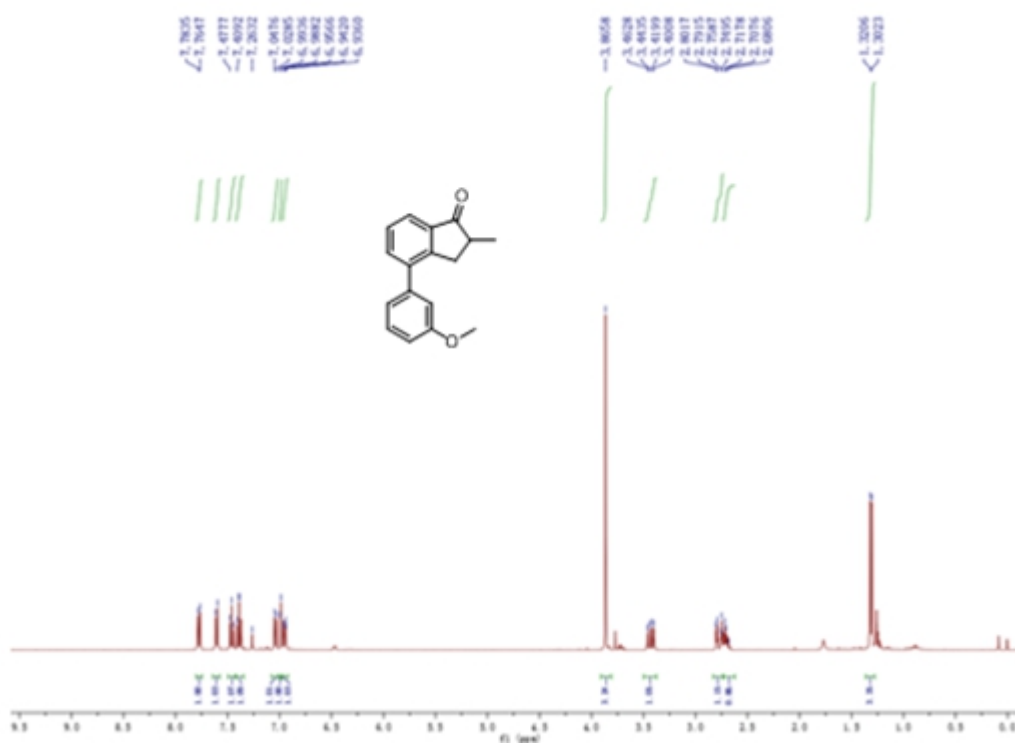
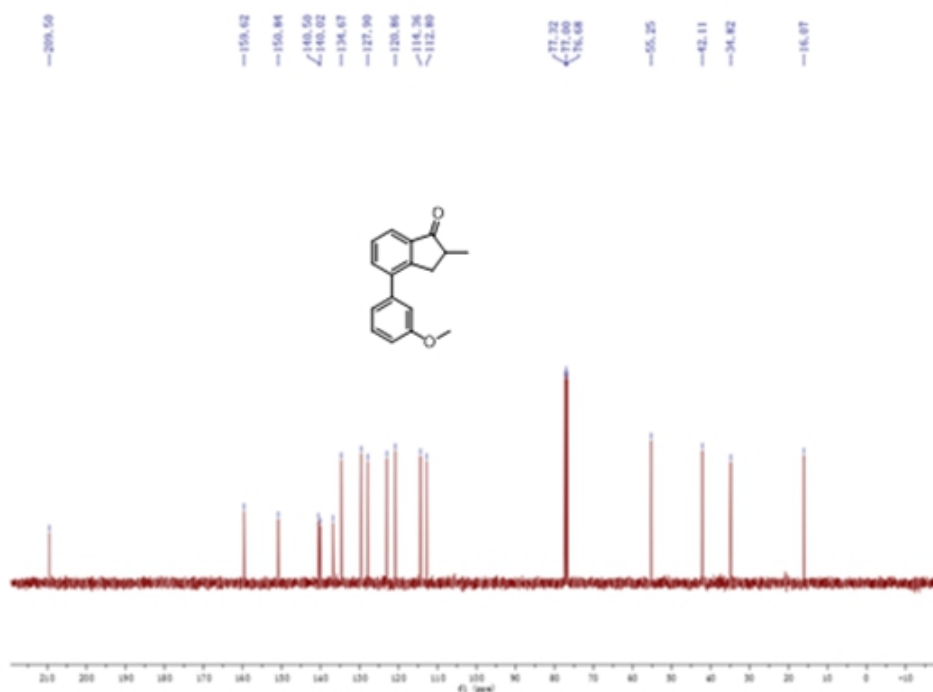




¹H NMR of 9a3

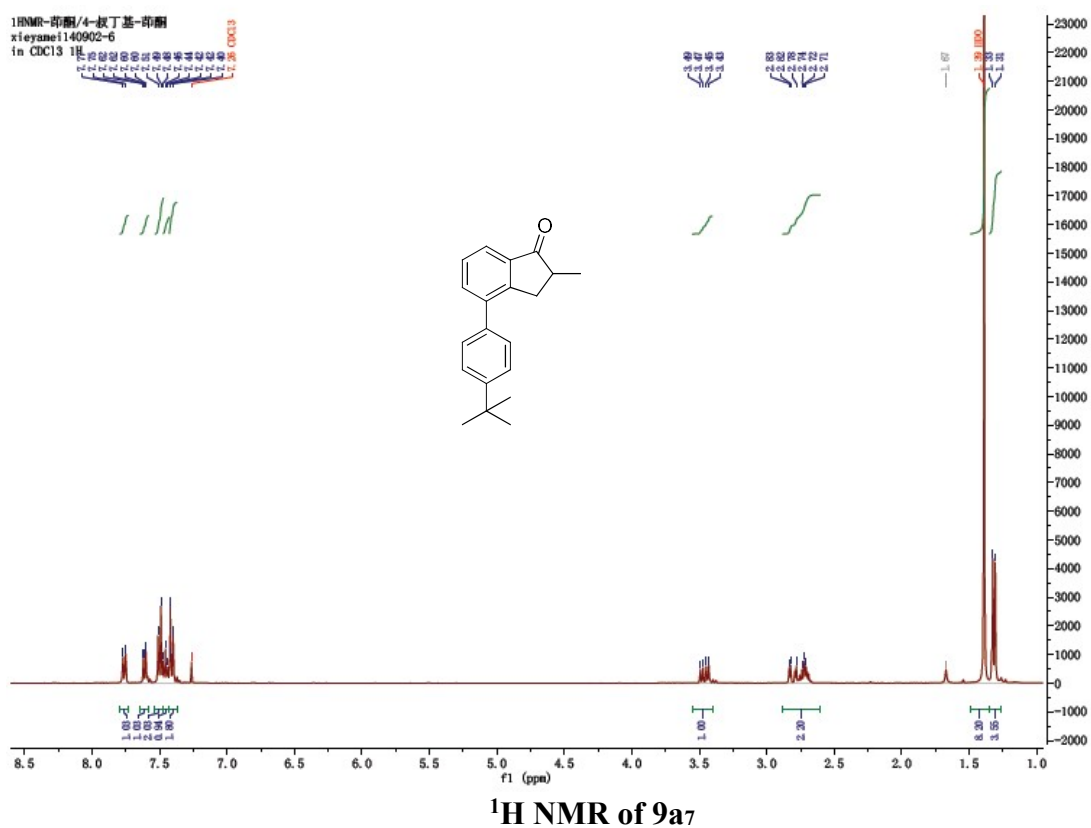
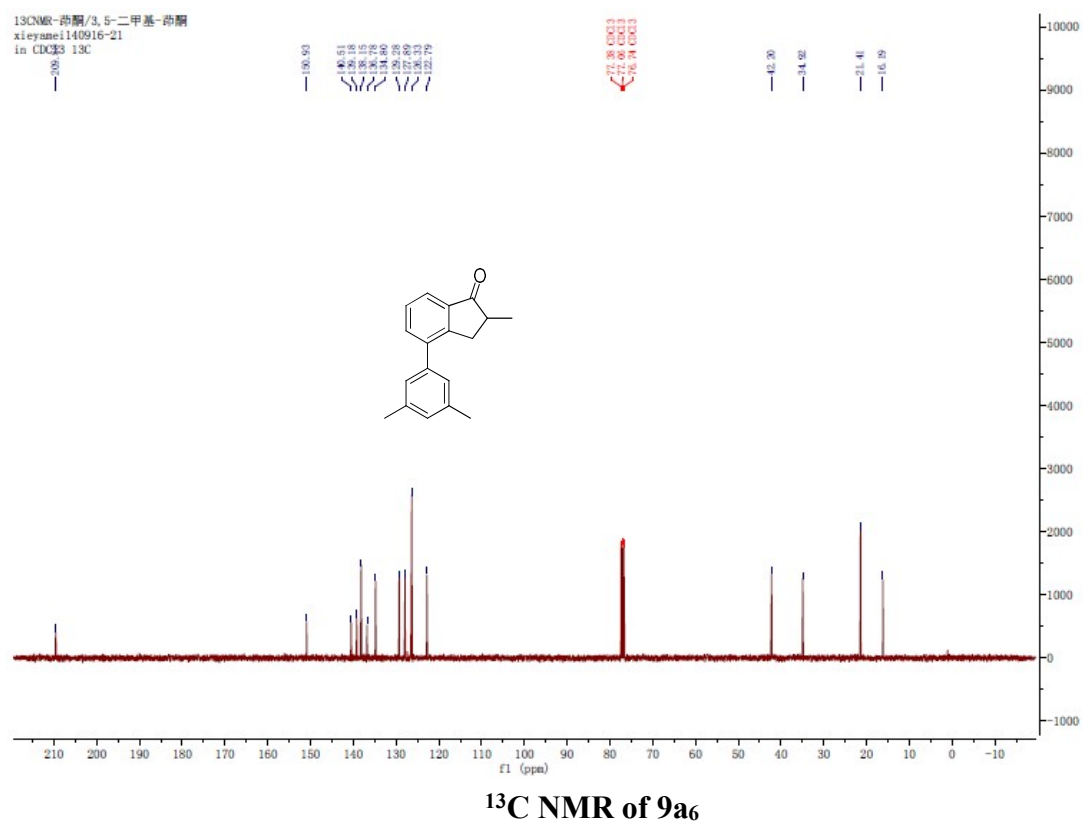


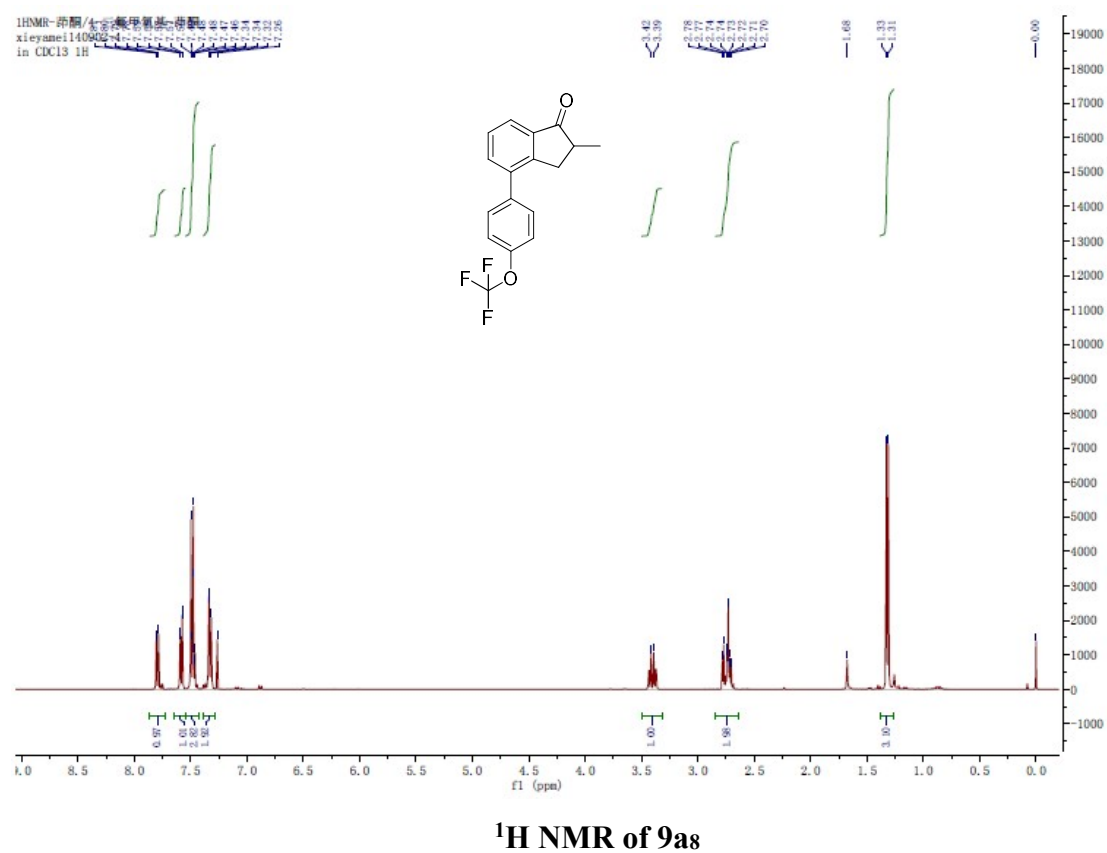
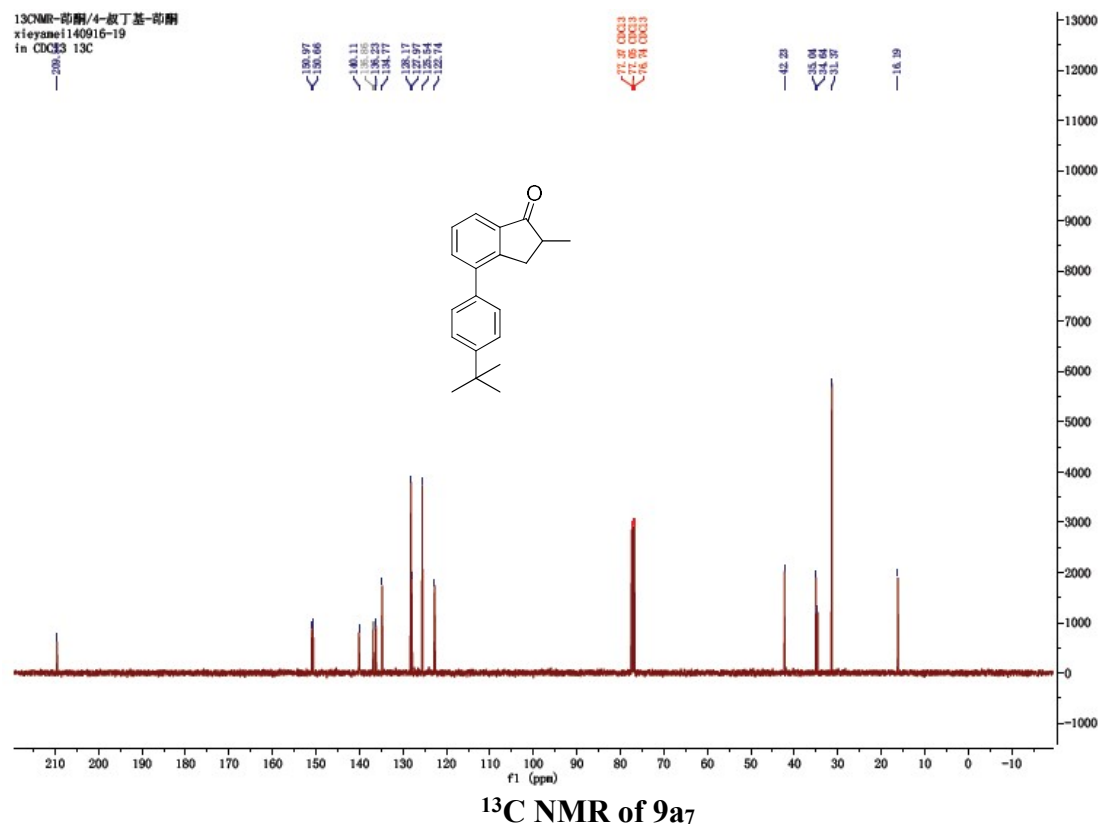
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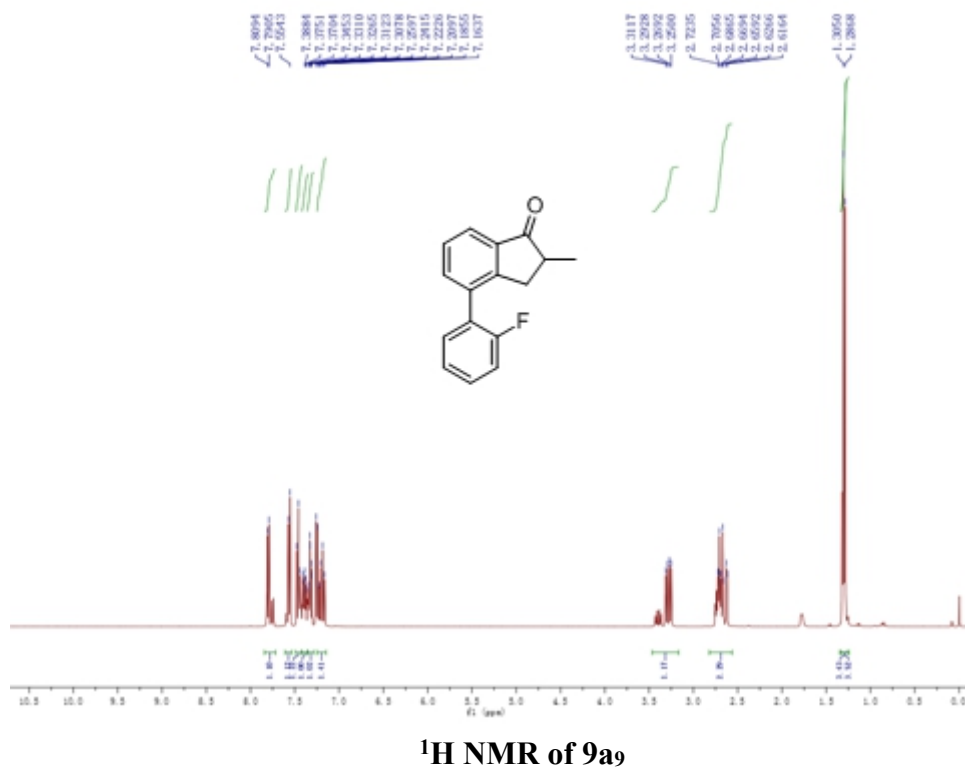
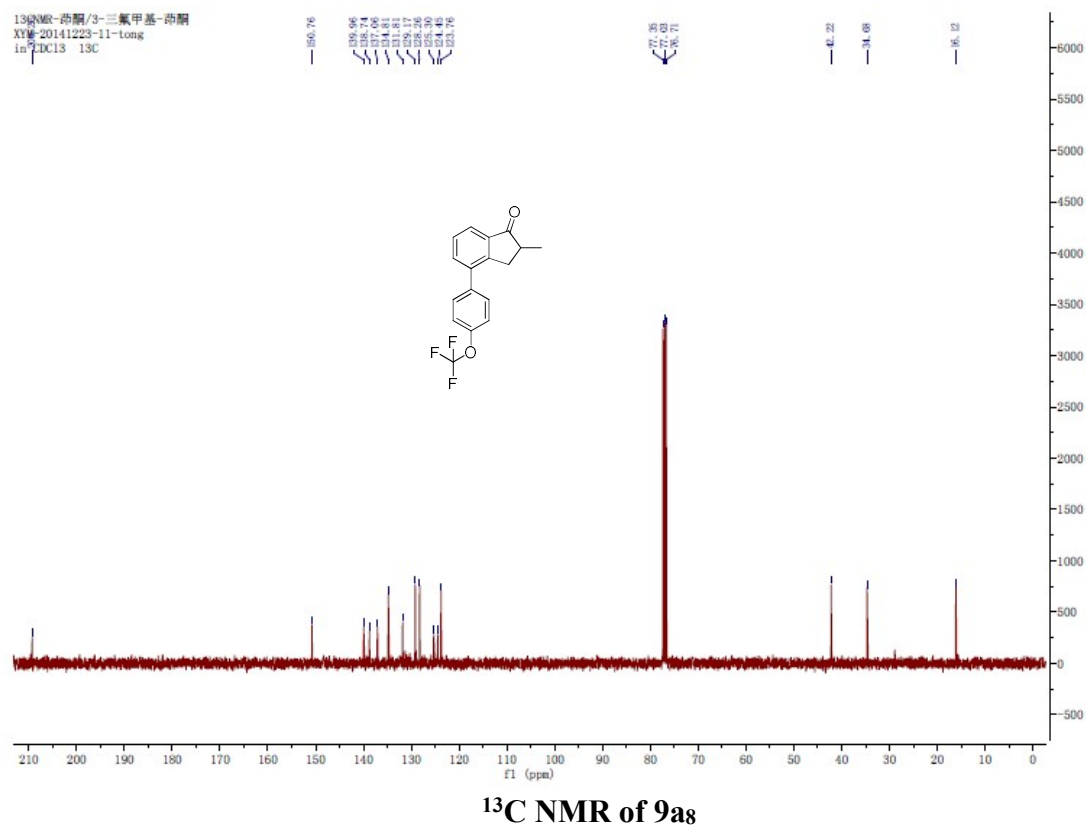
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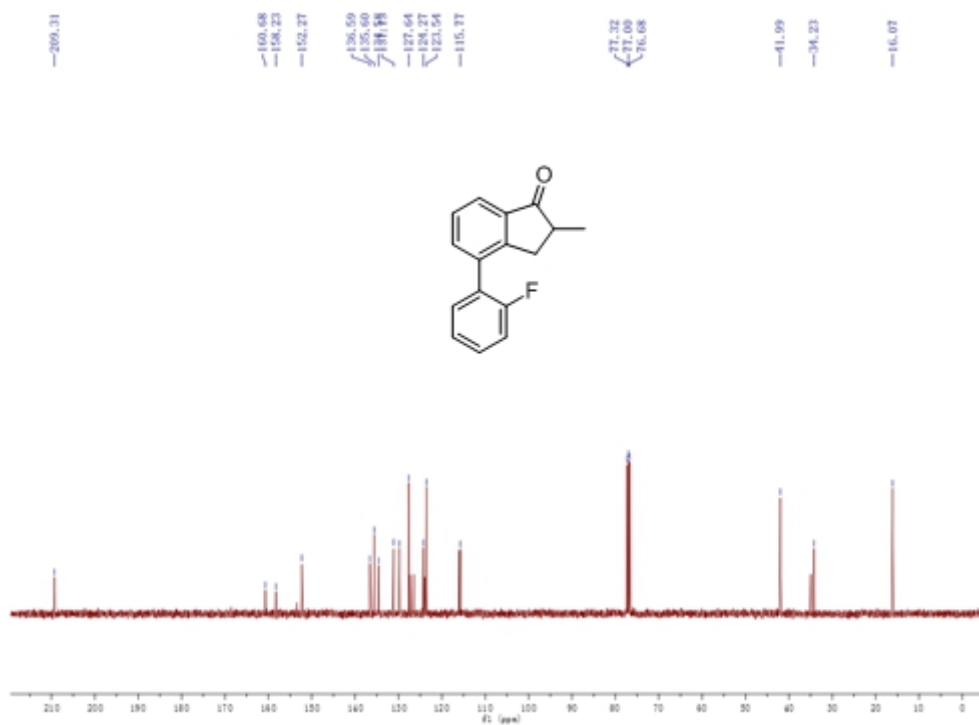
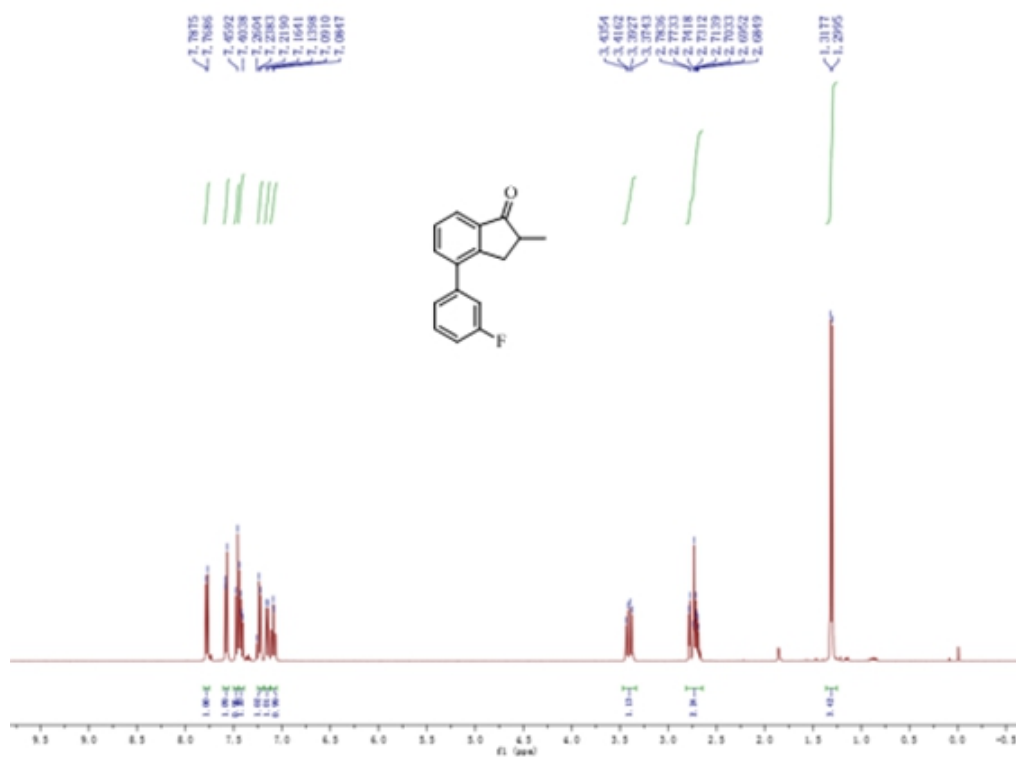


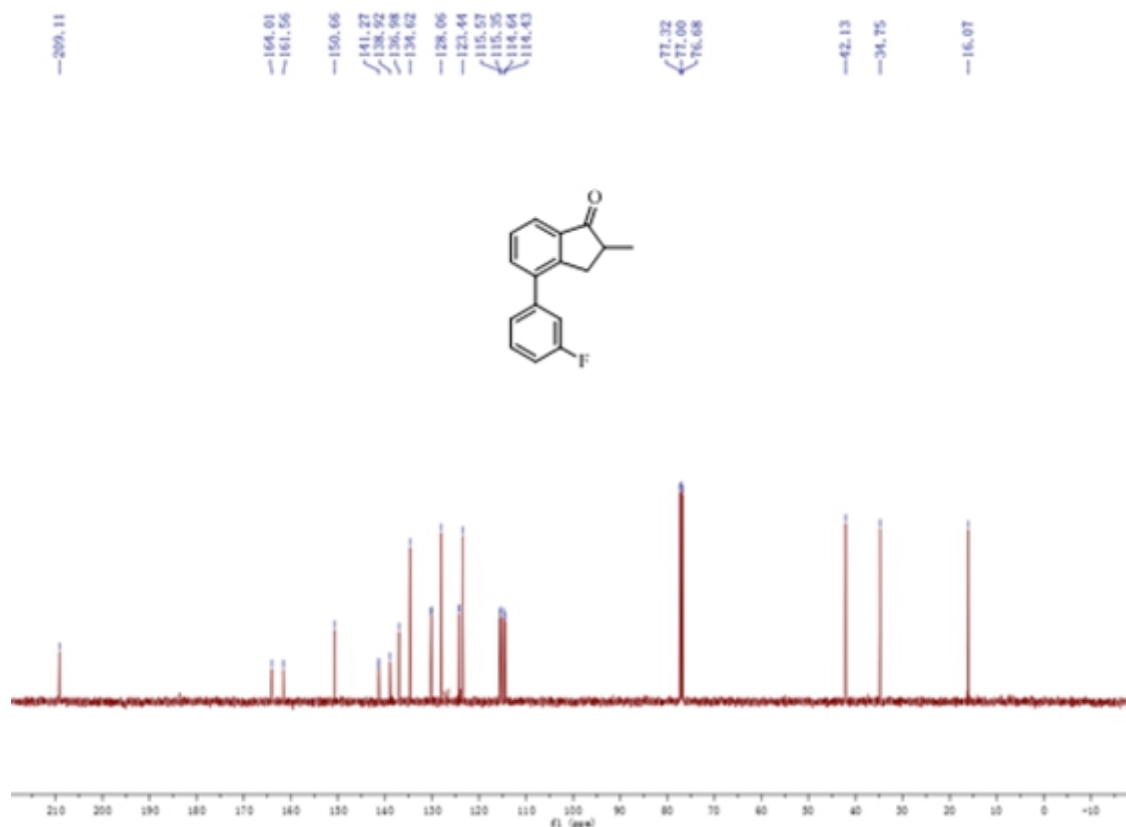
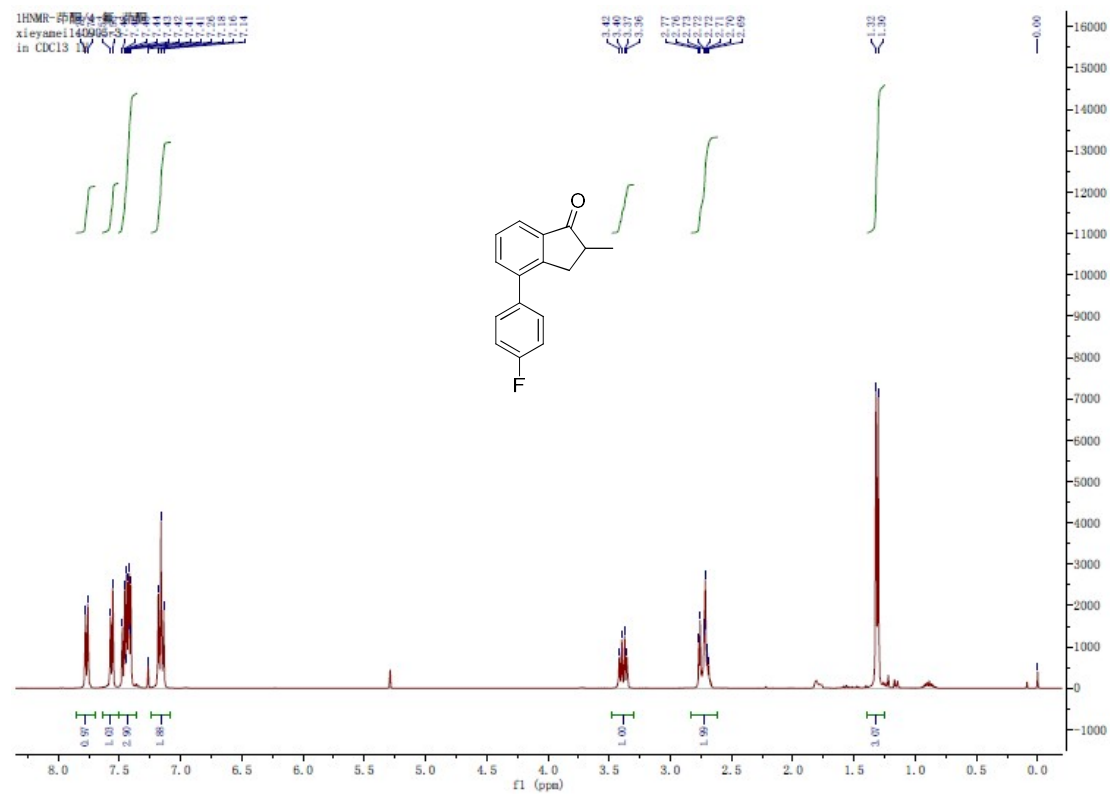


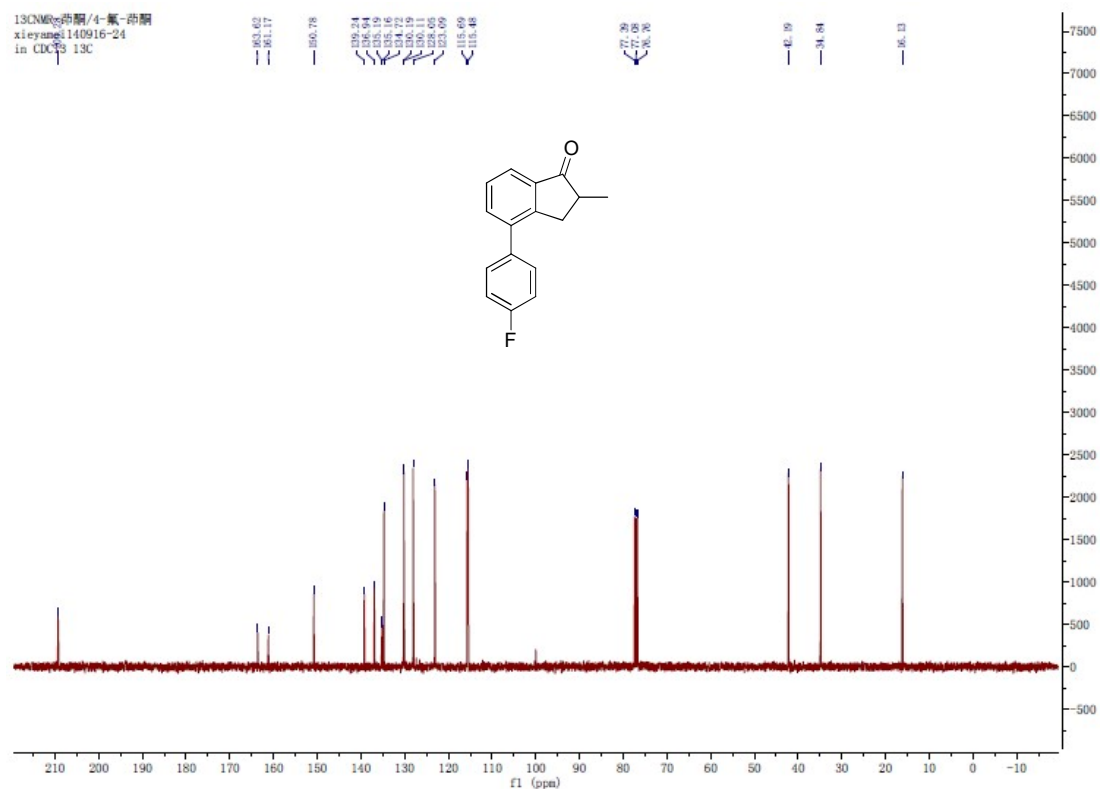
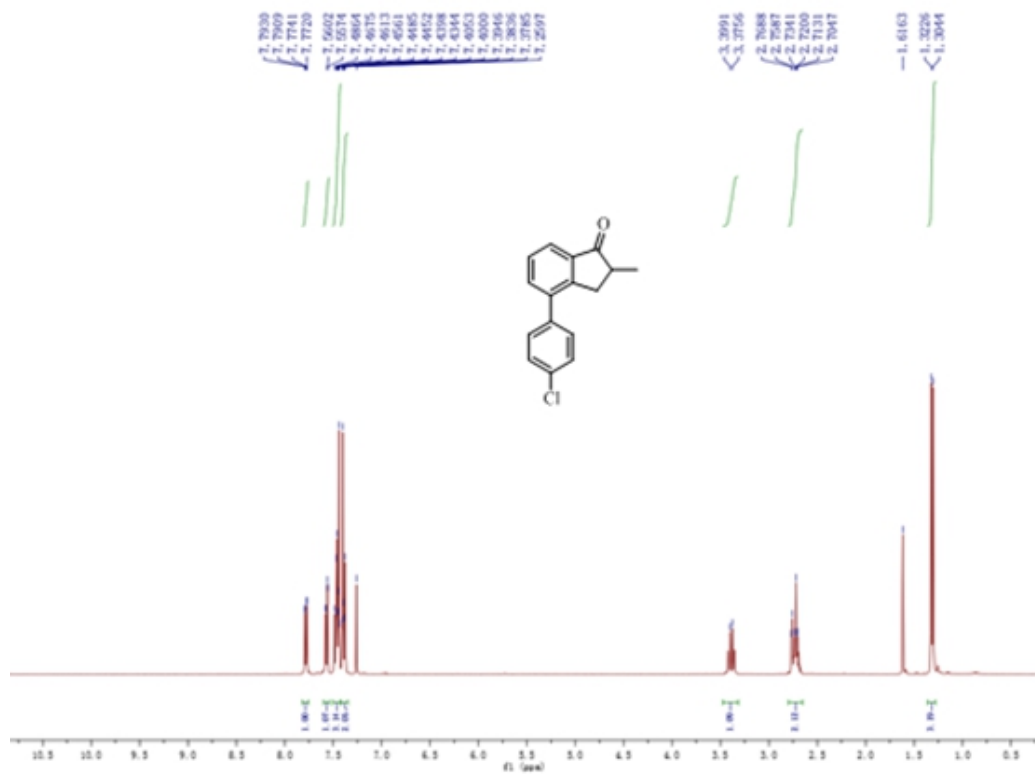


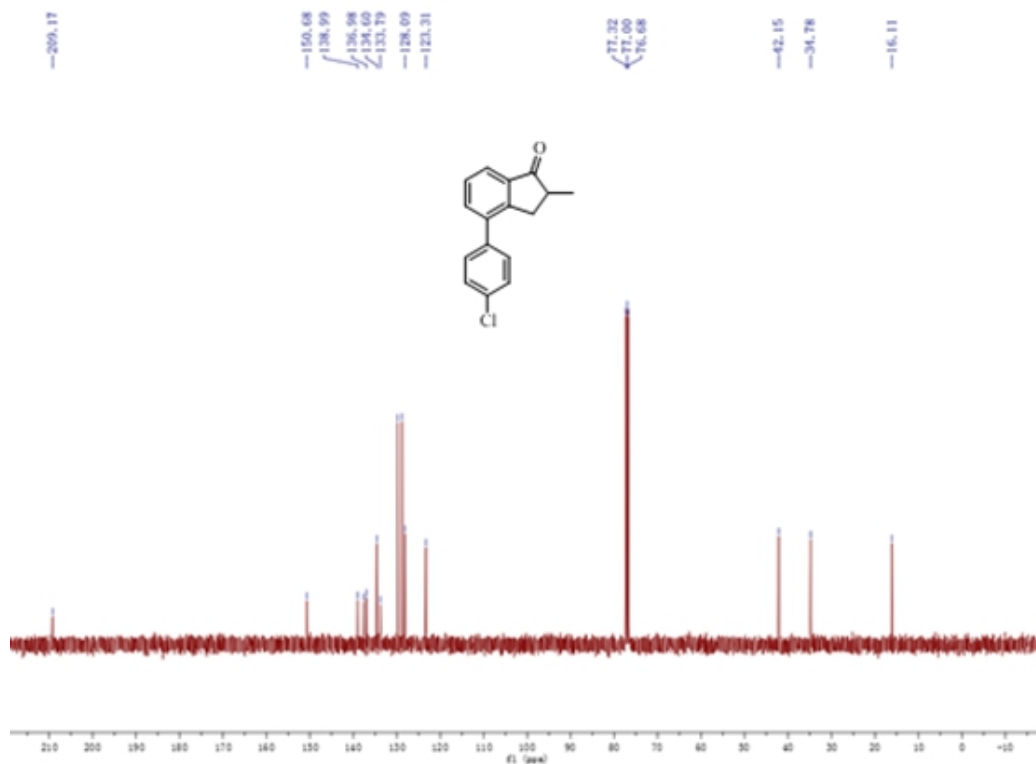
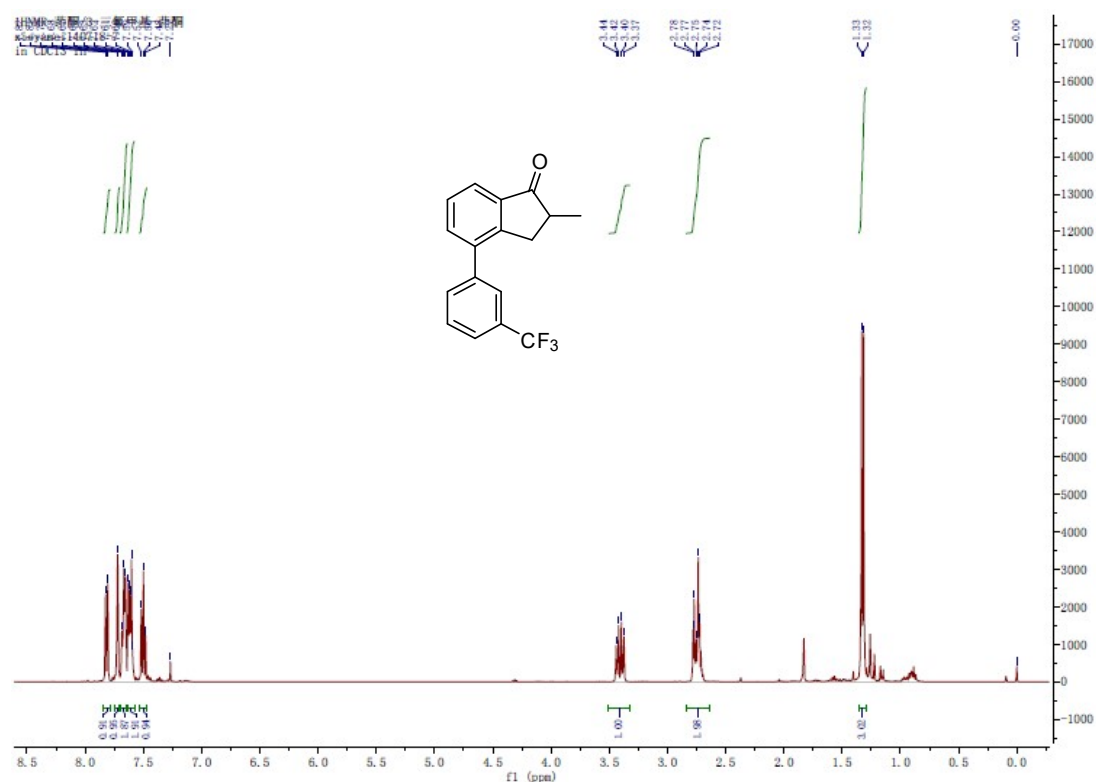


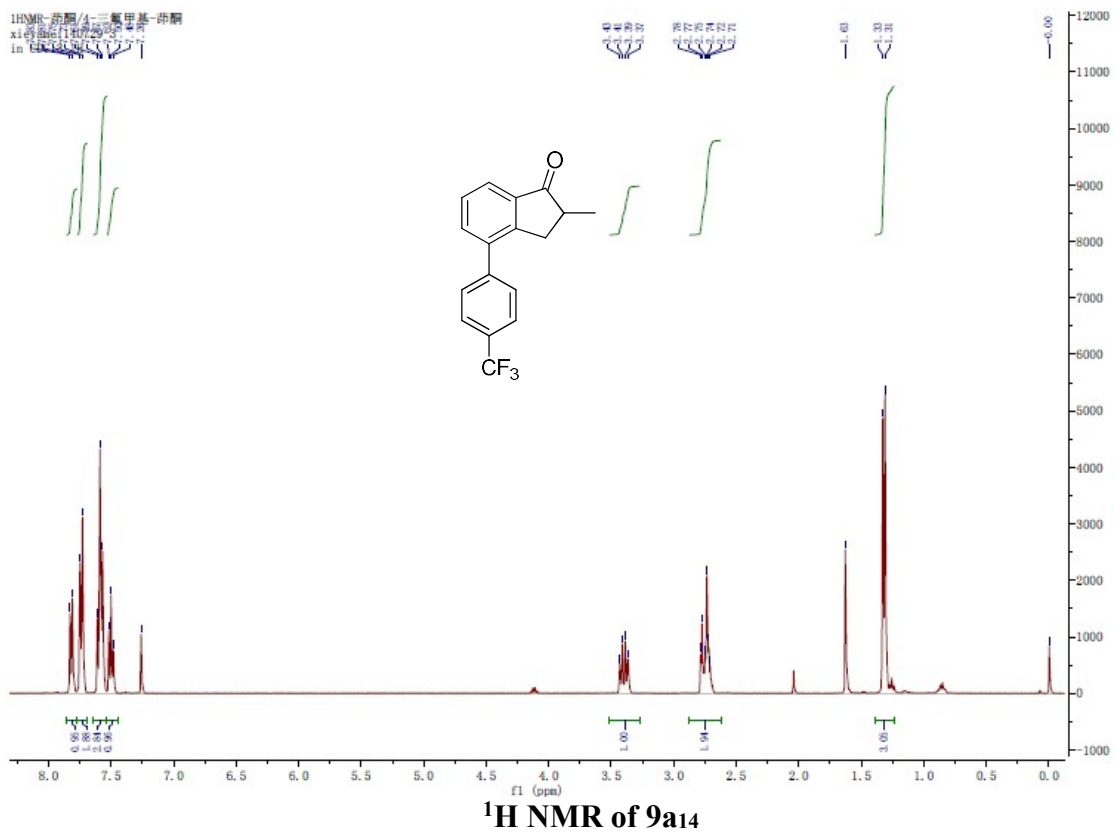
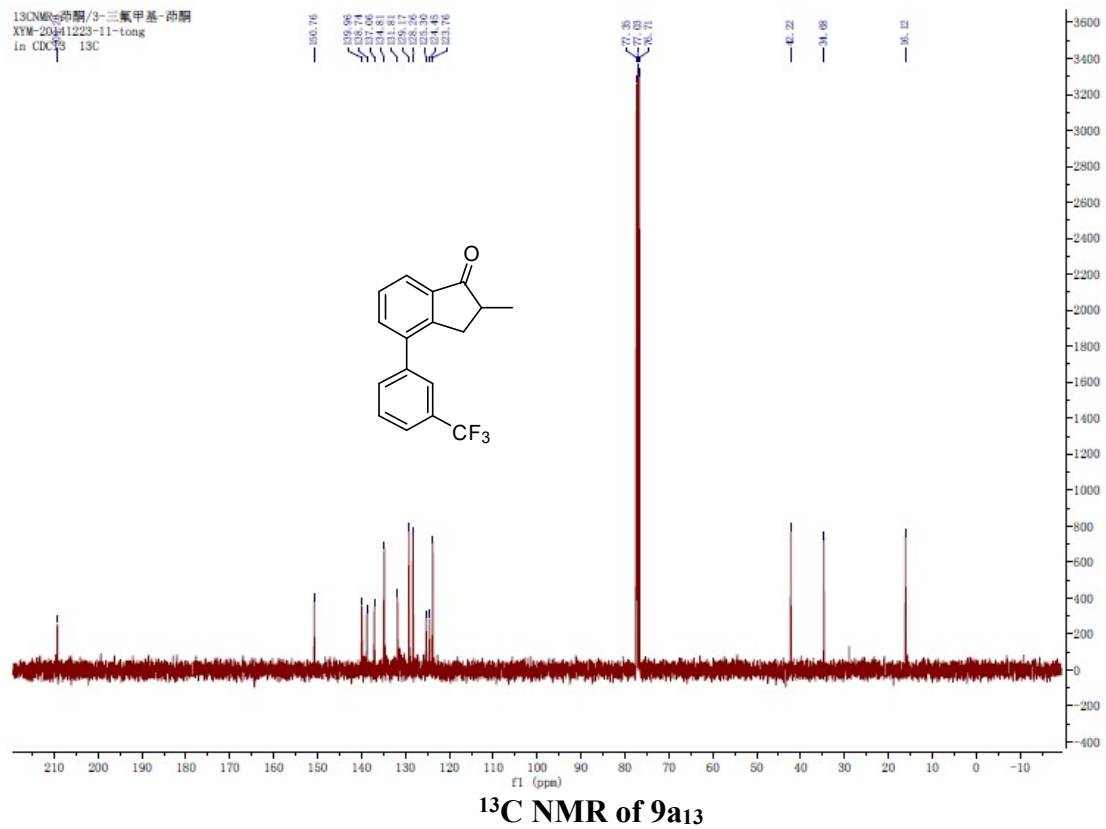


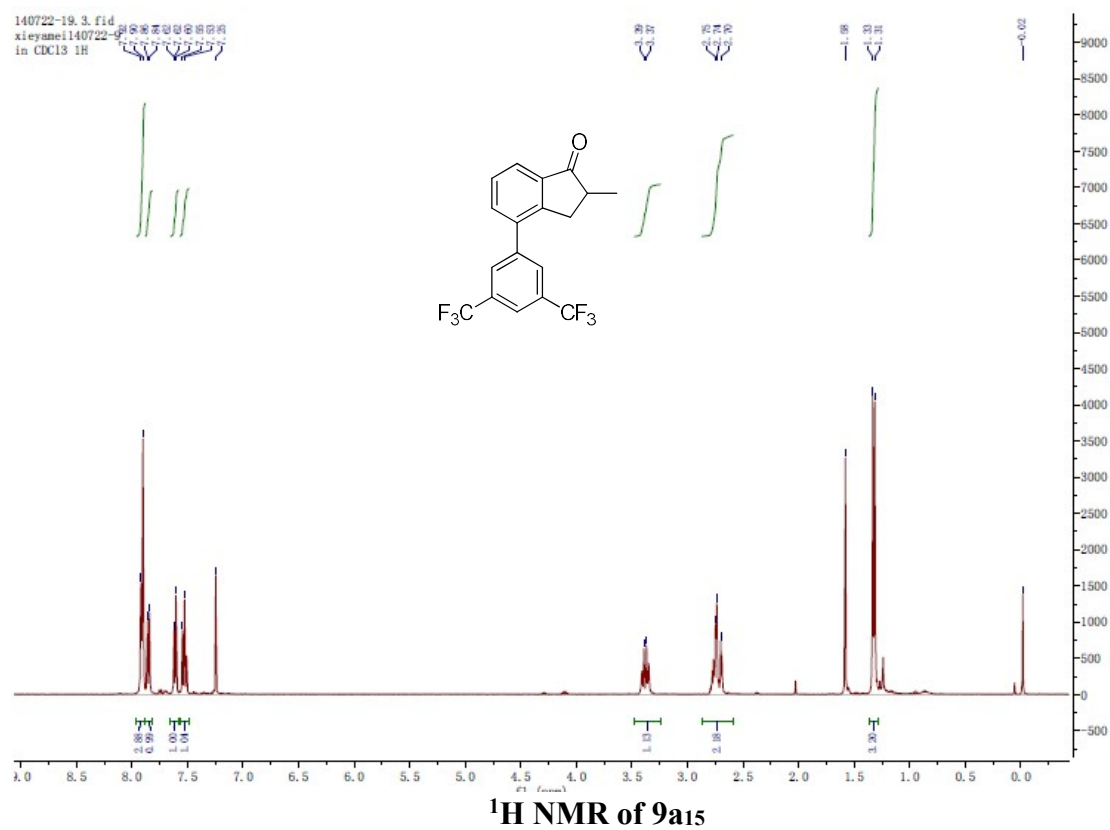
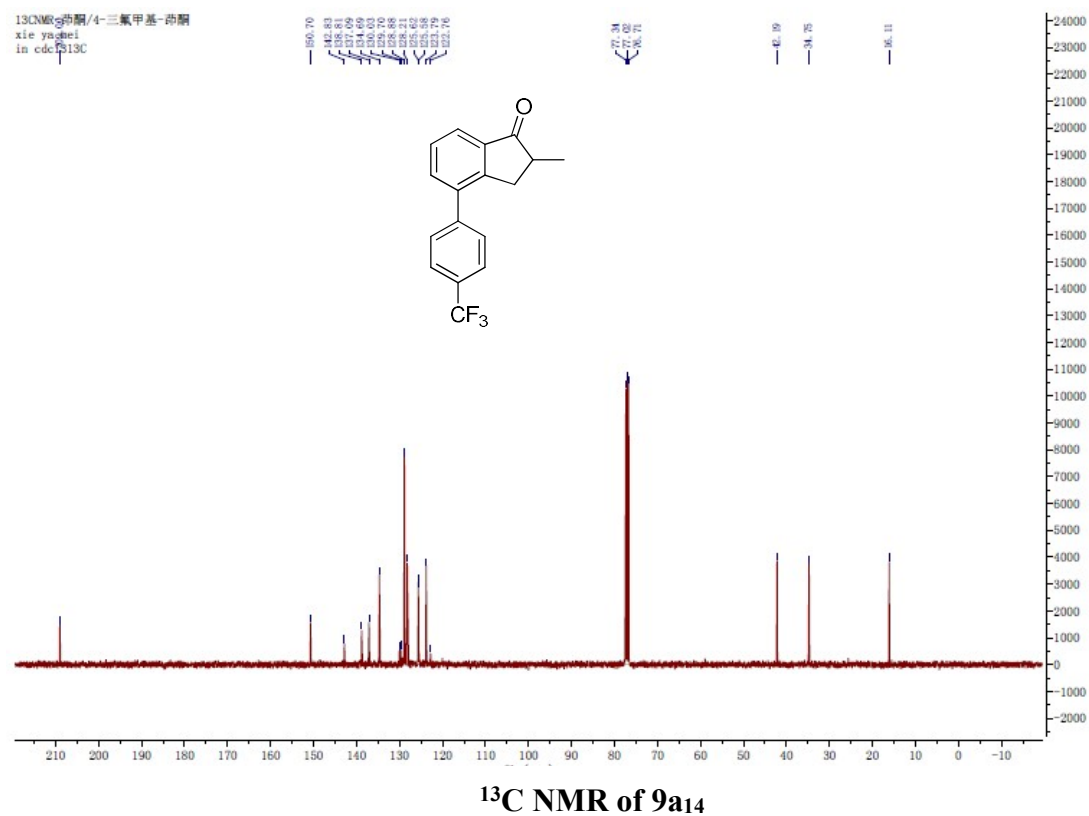
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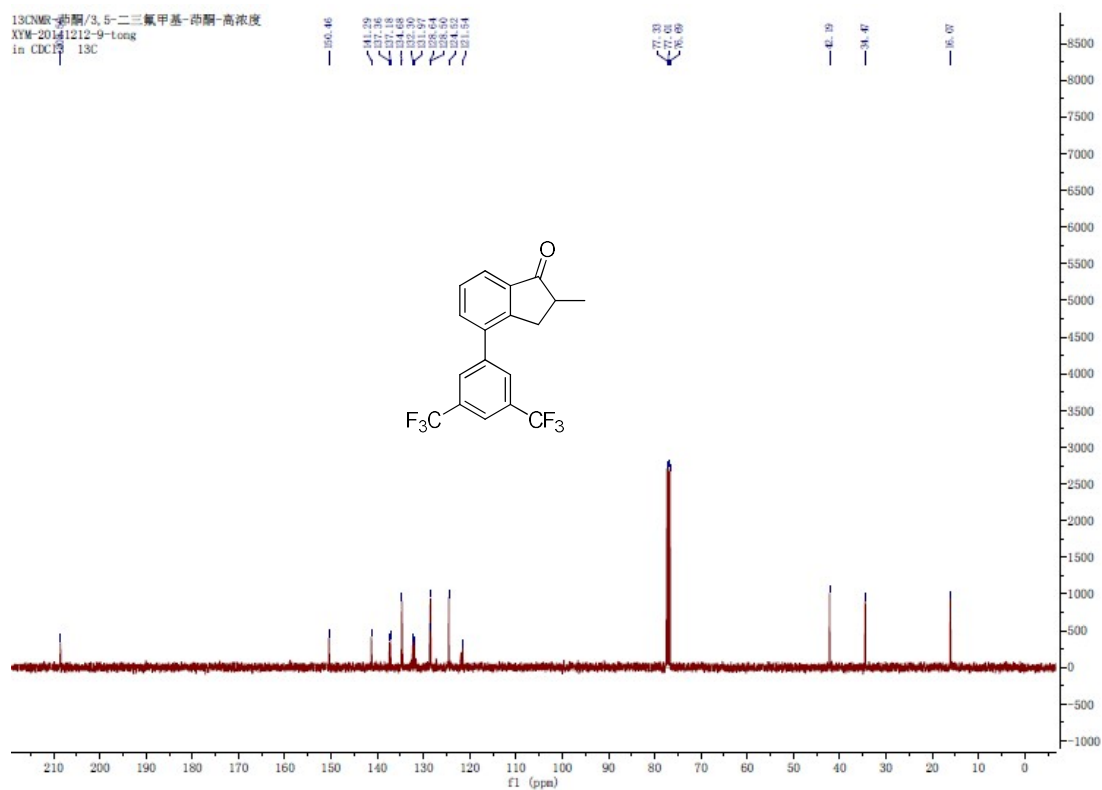
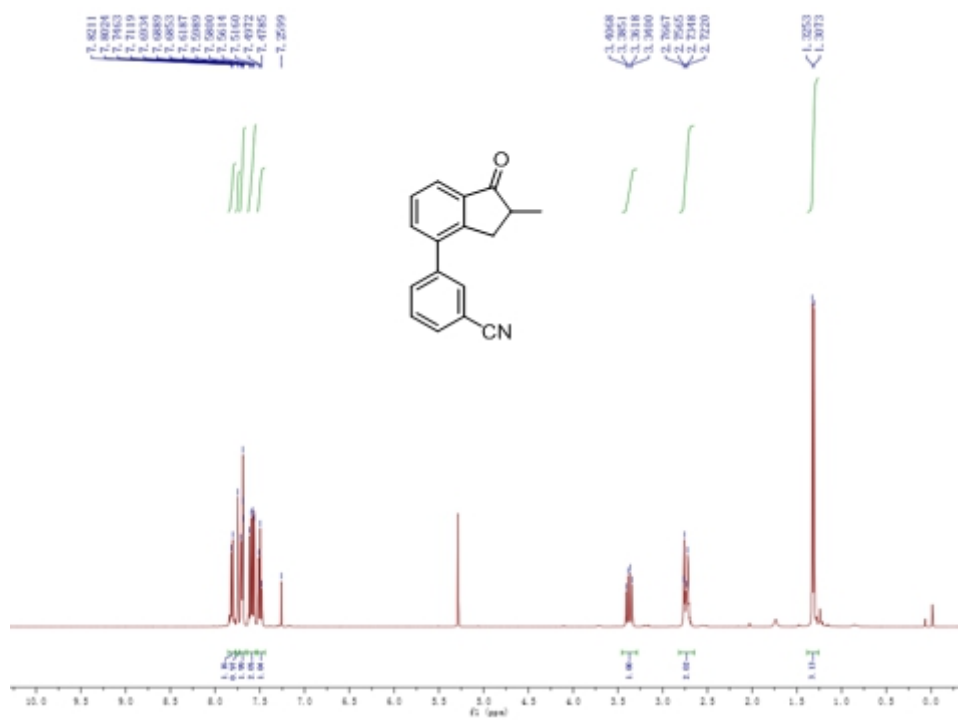
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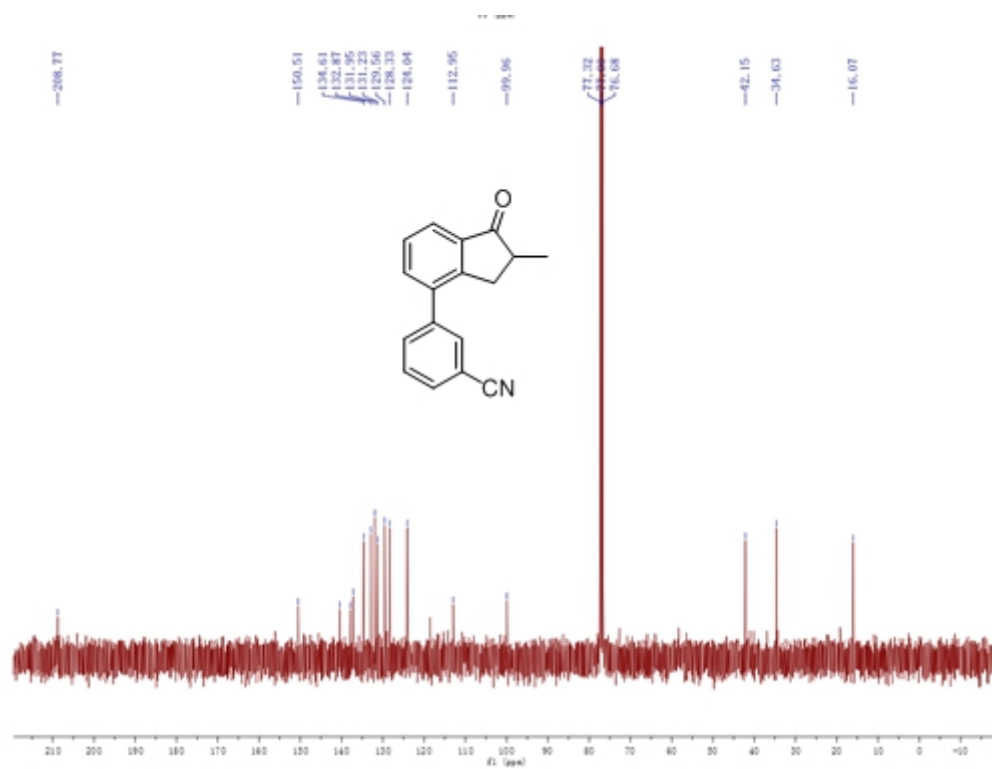
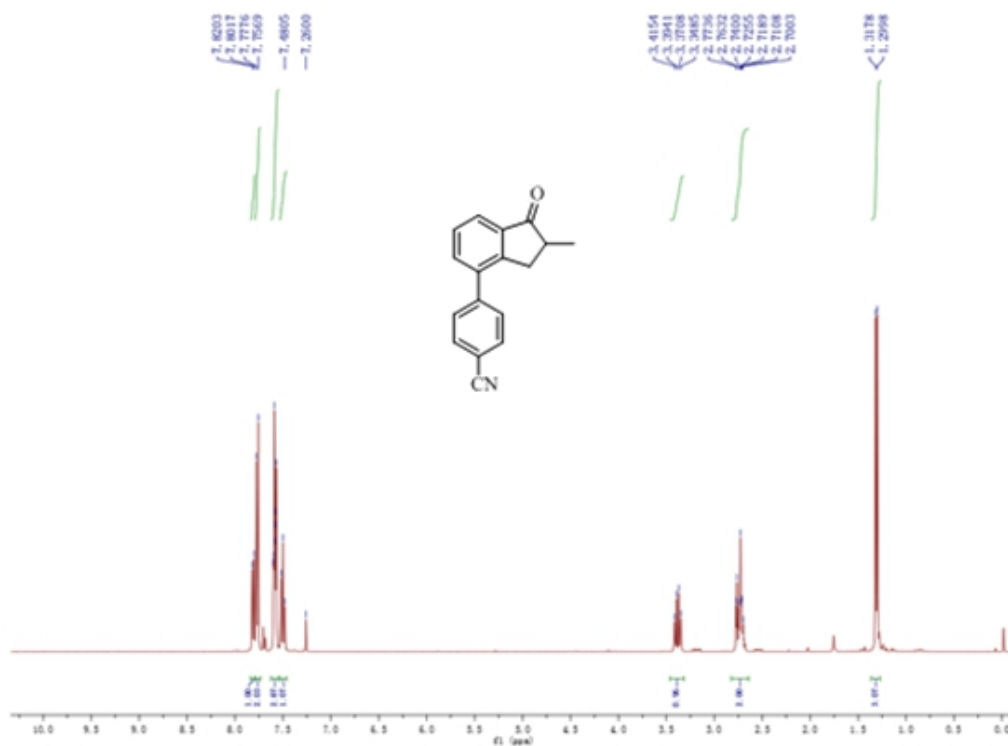
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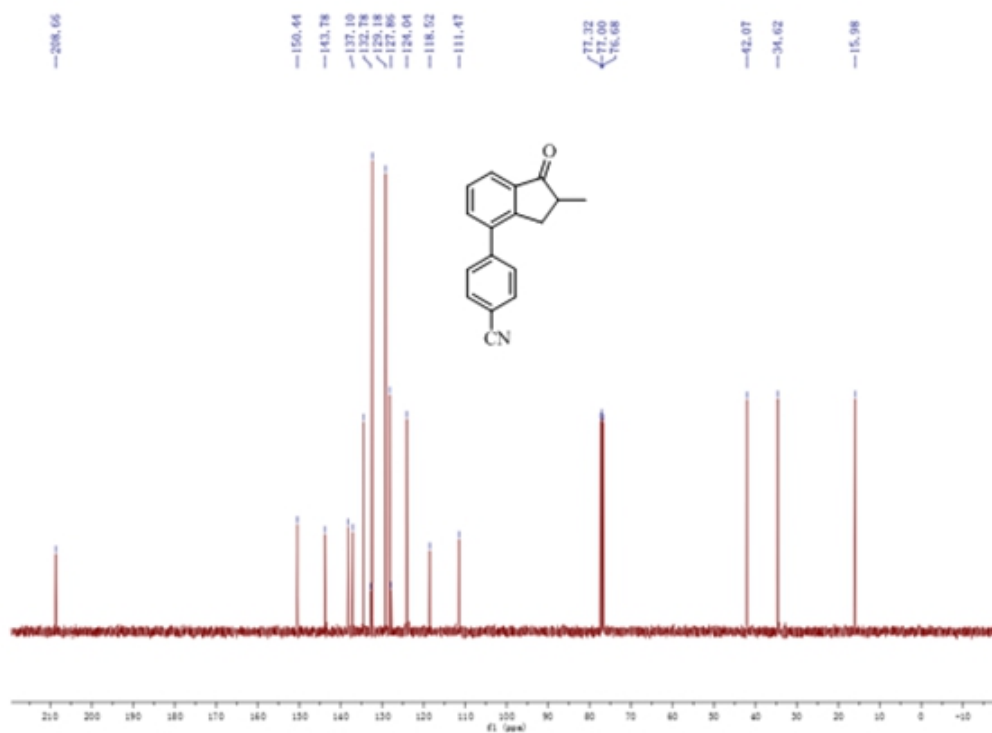
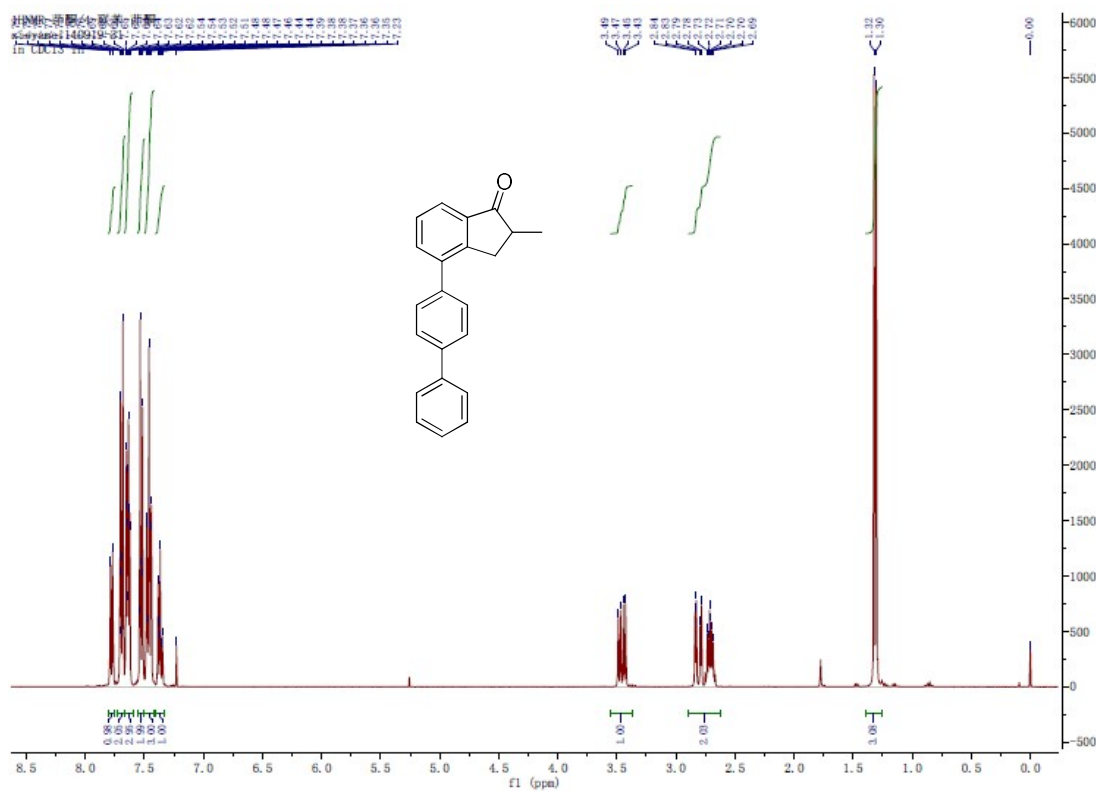
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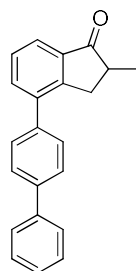




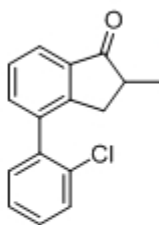
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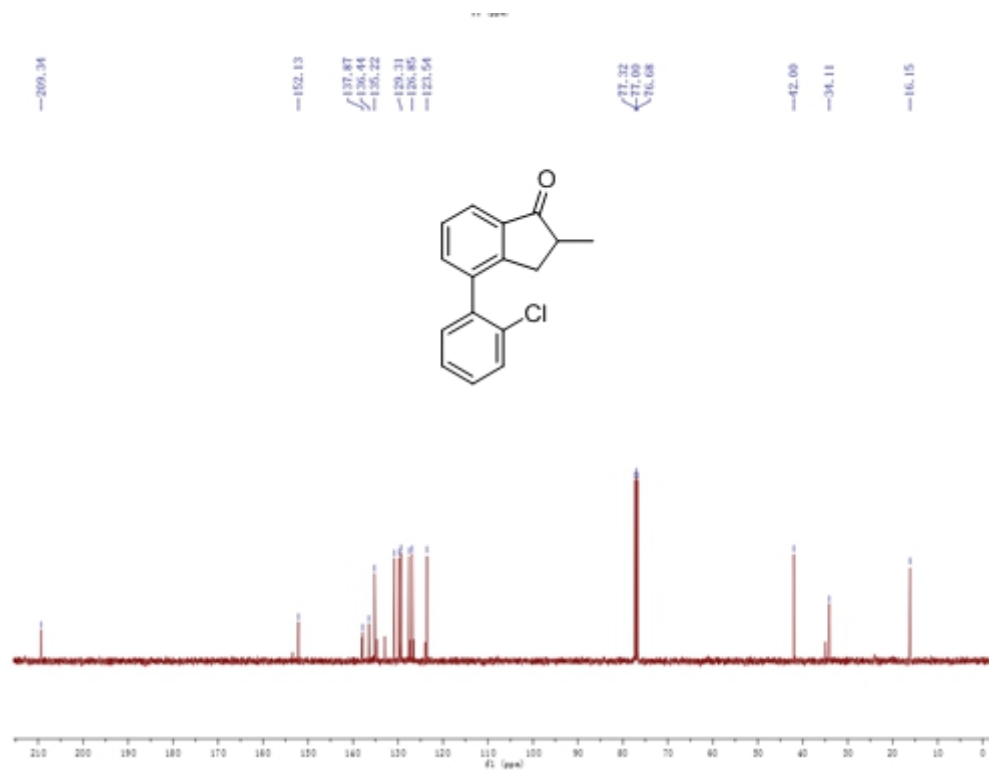
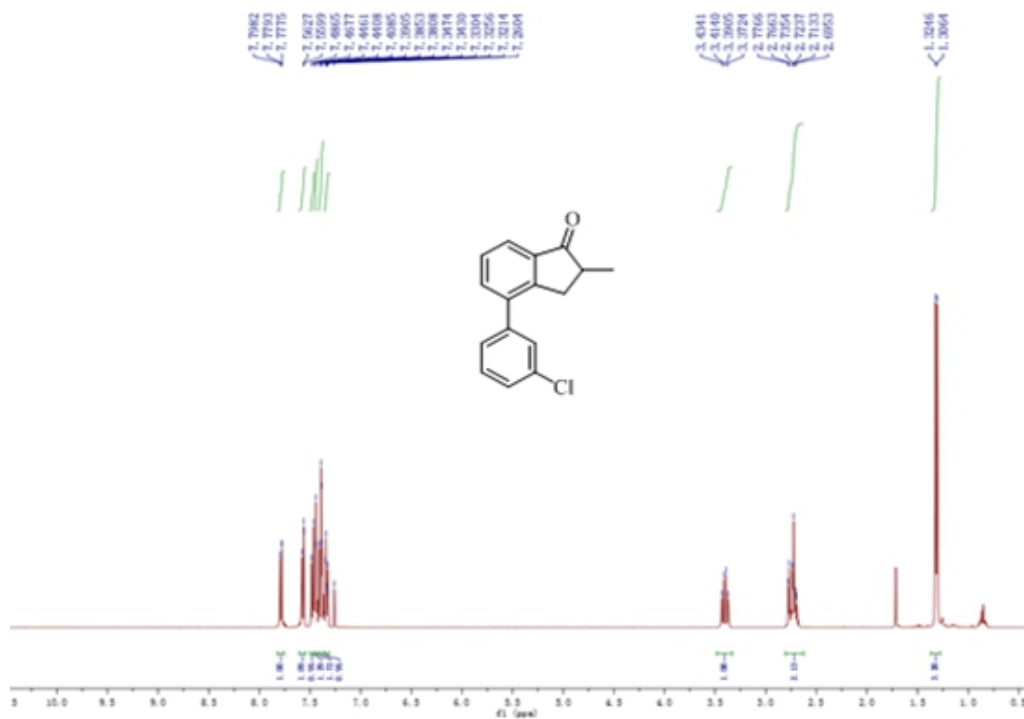
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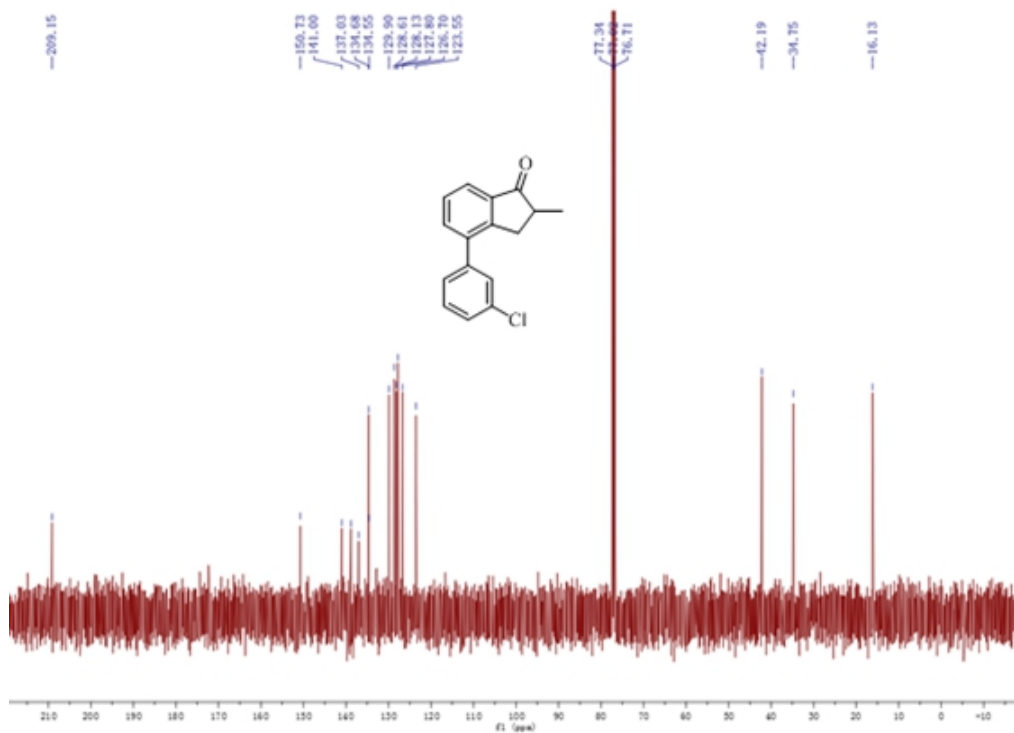
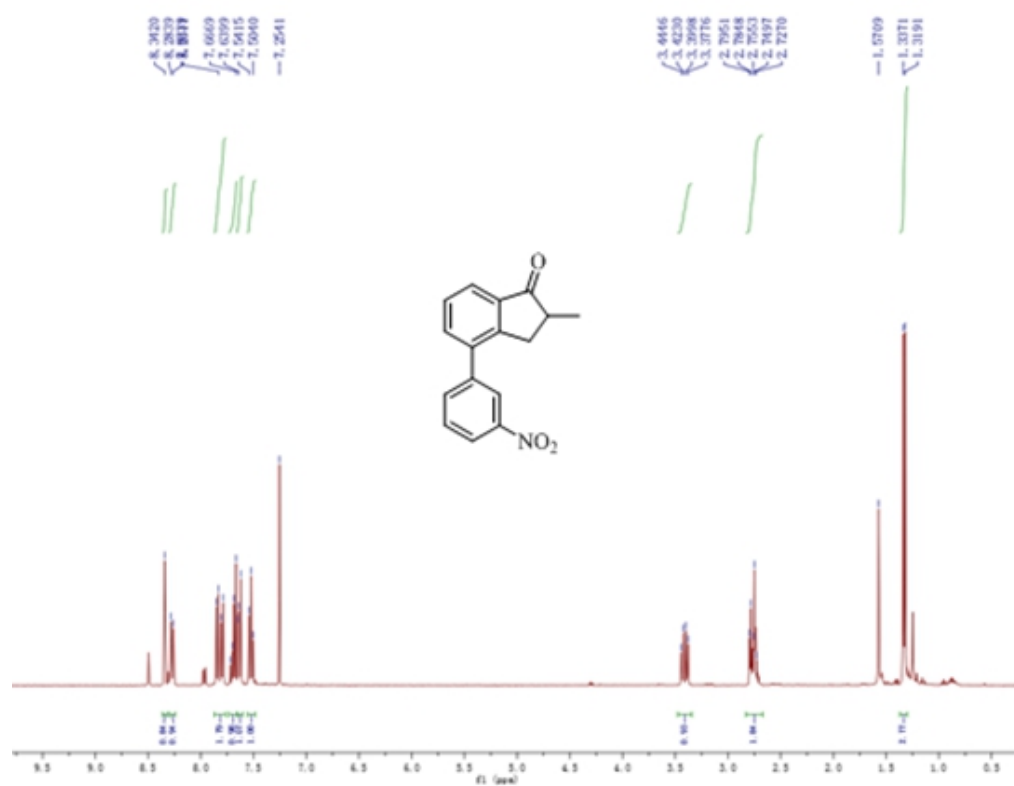
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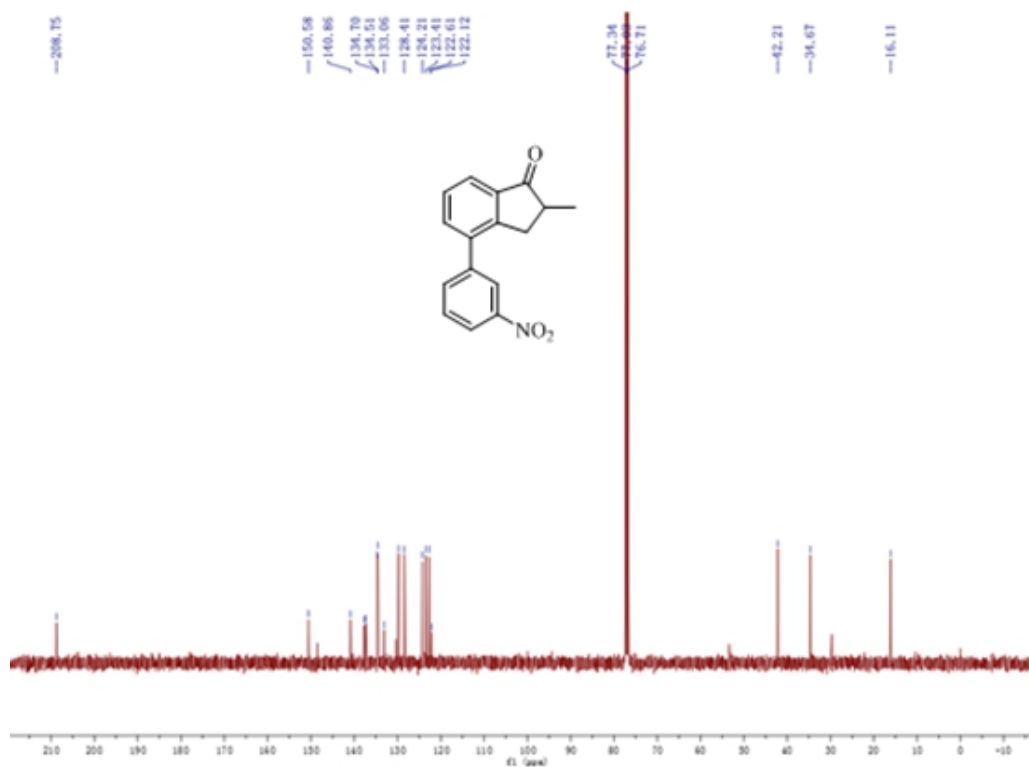
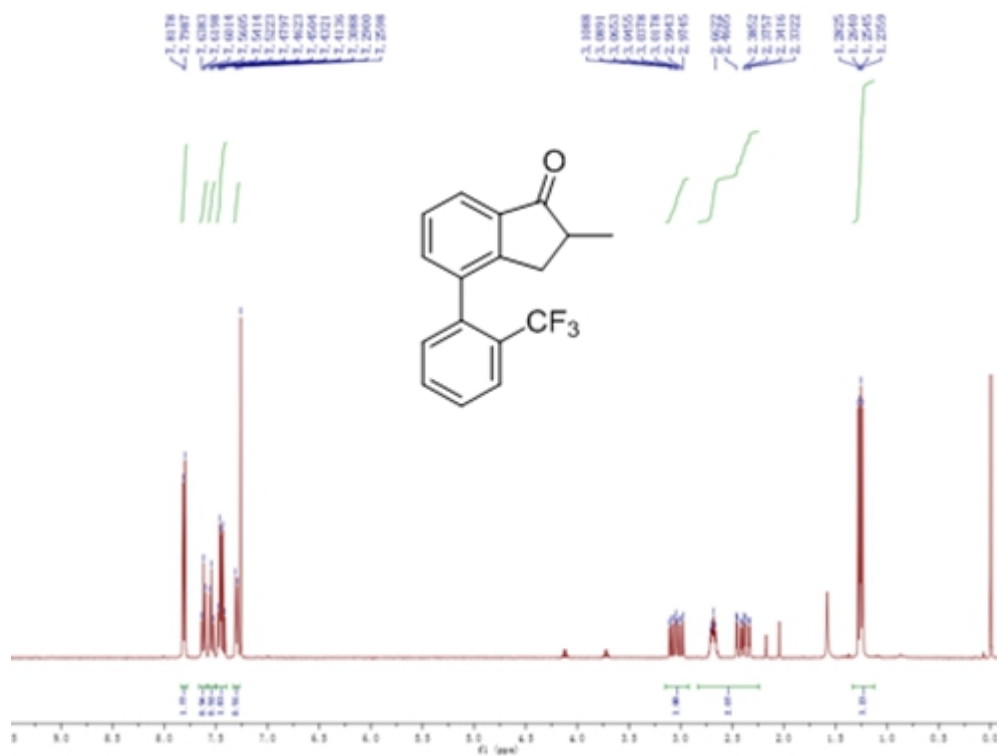


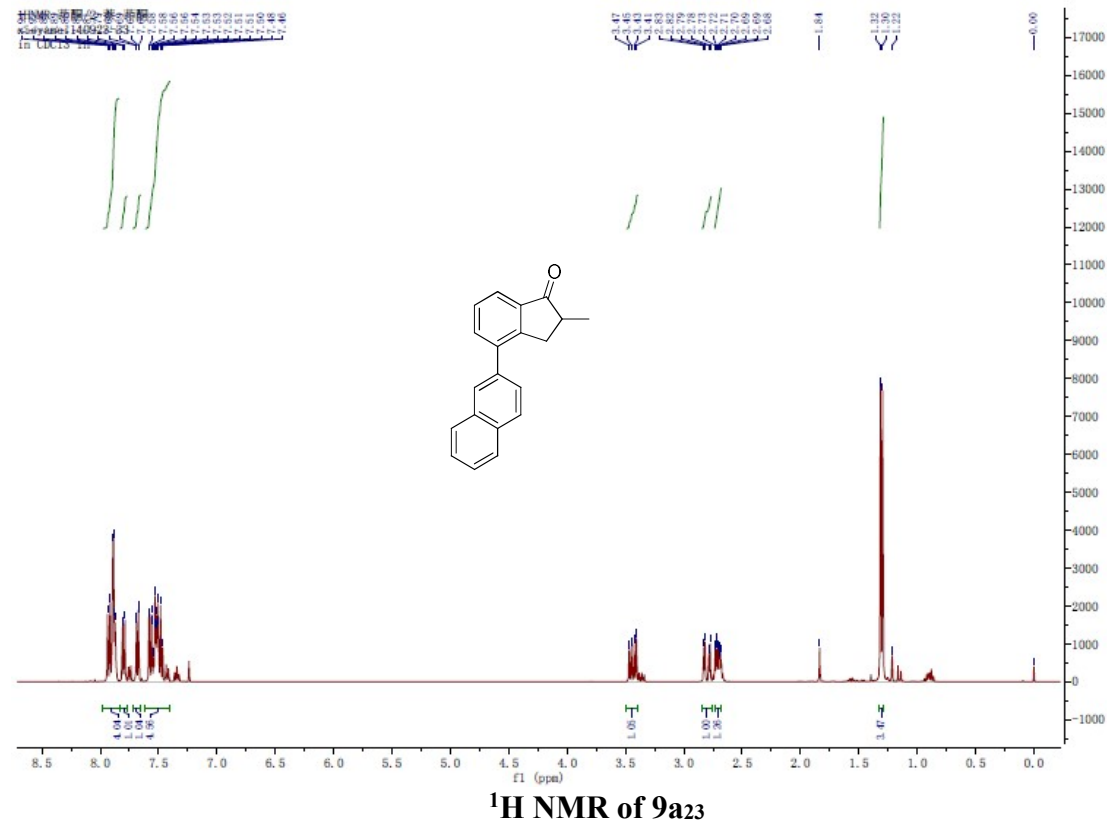
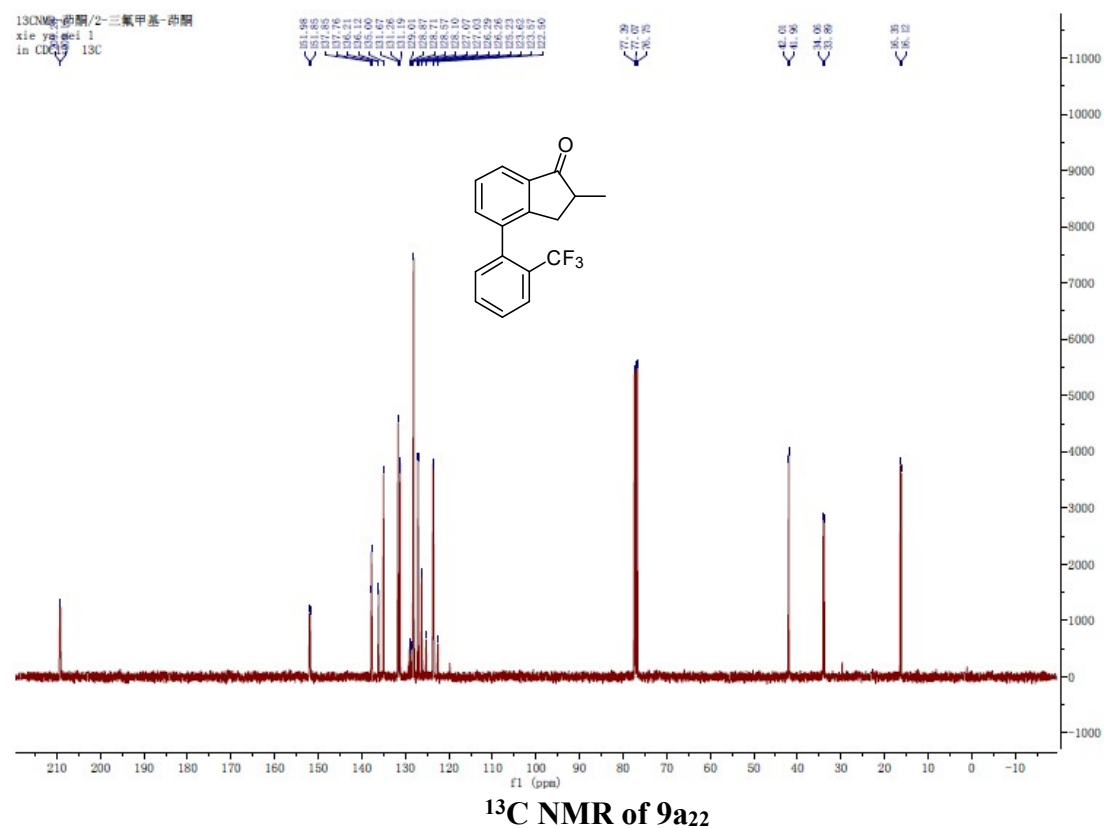
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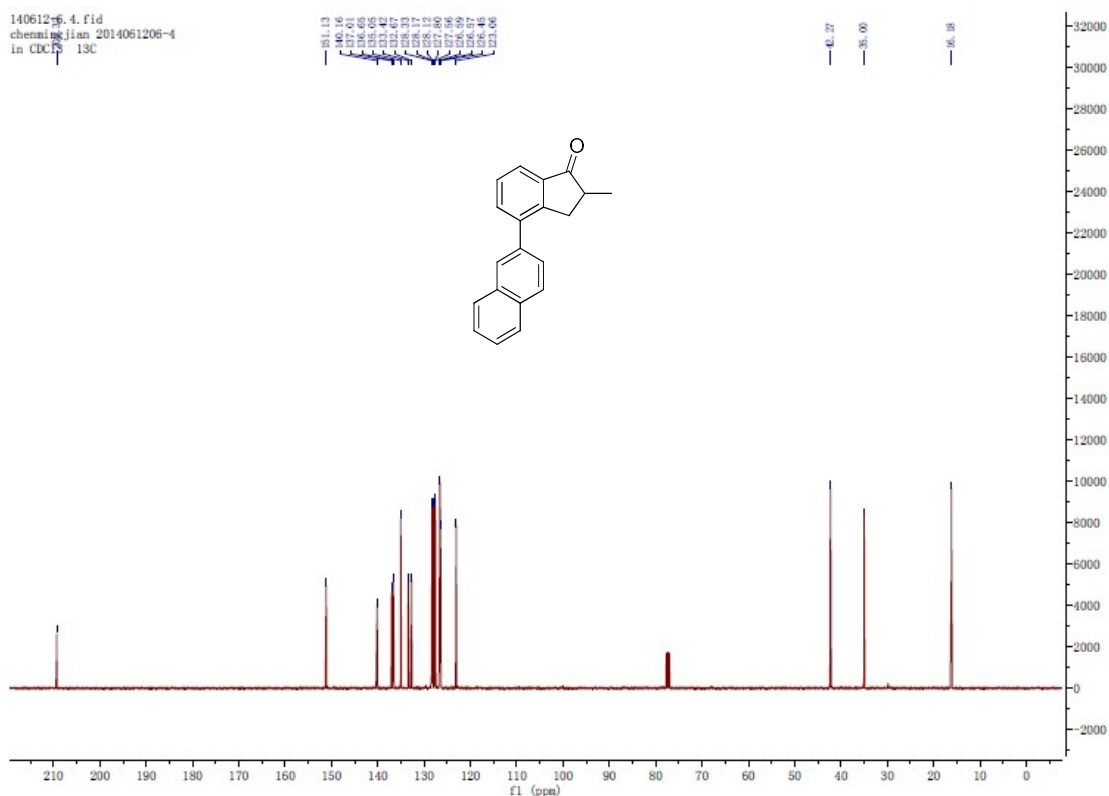


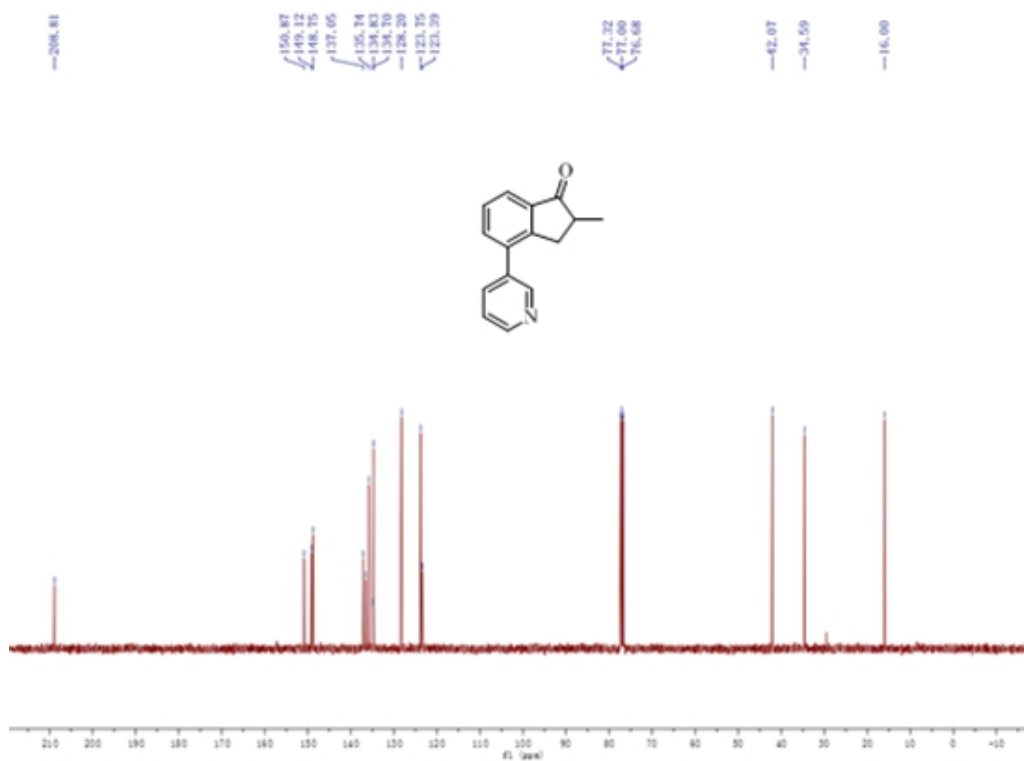
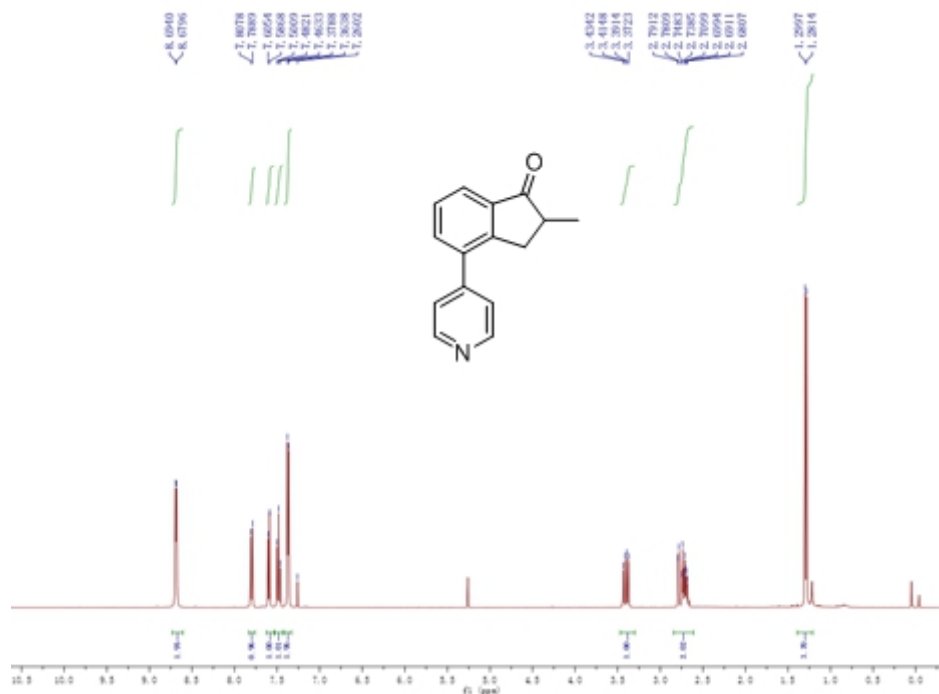
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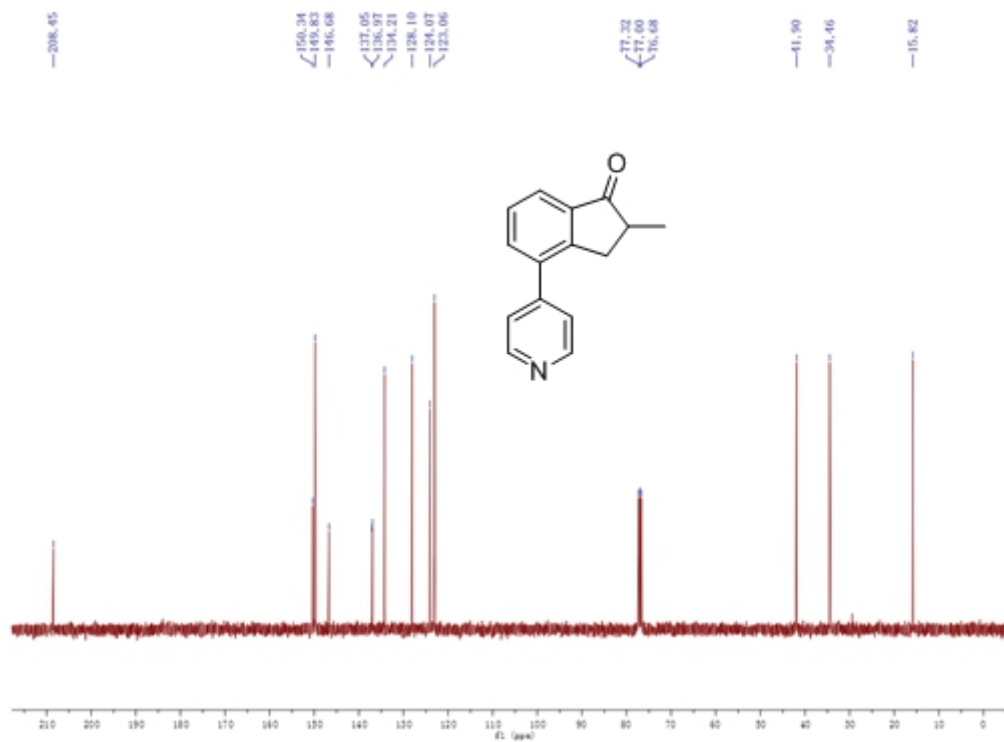
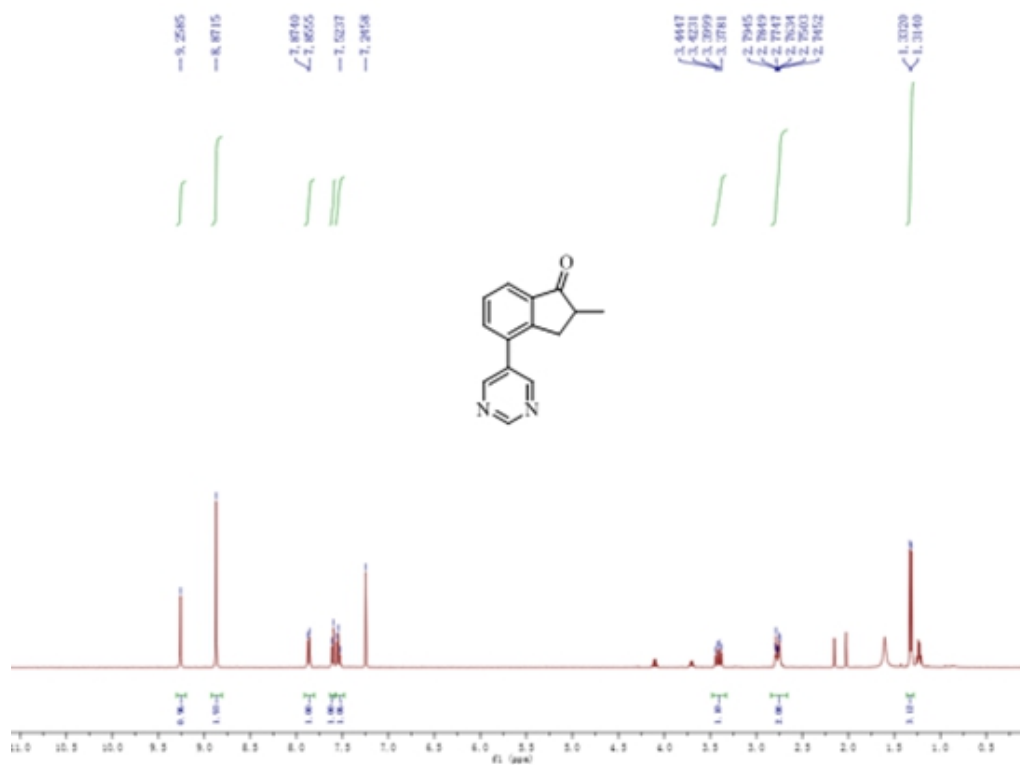
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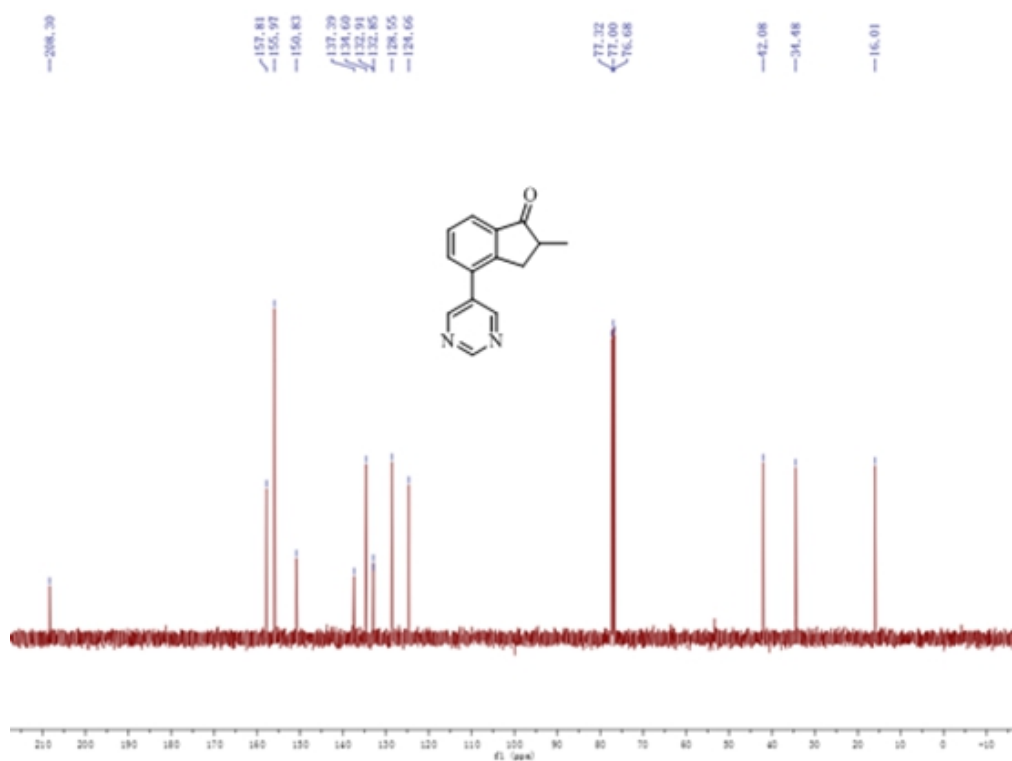
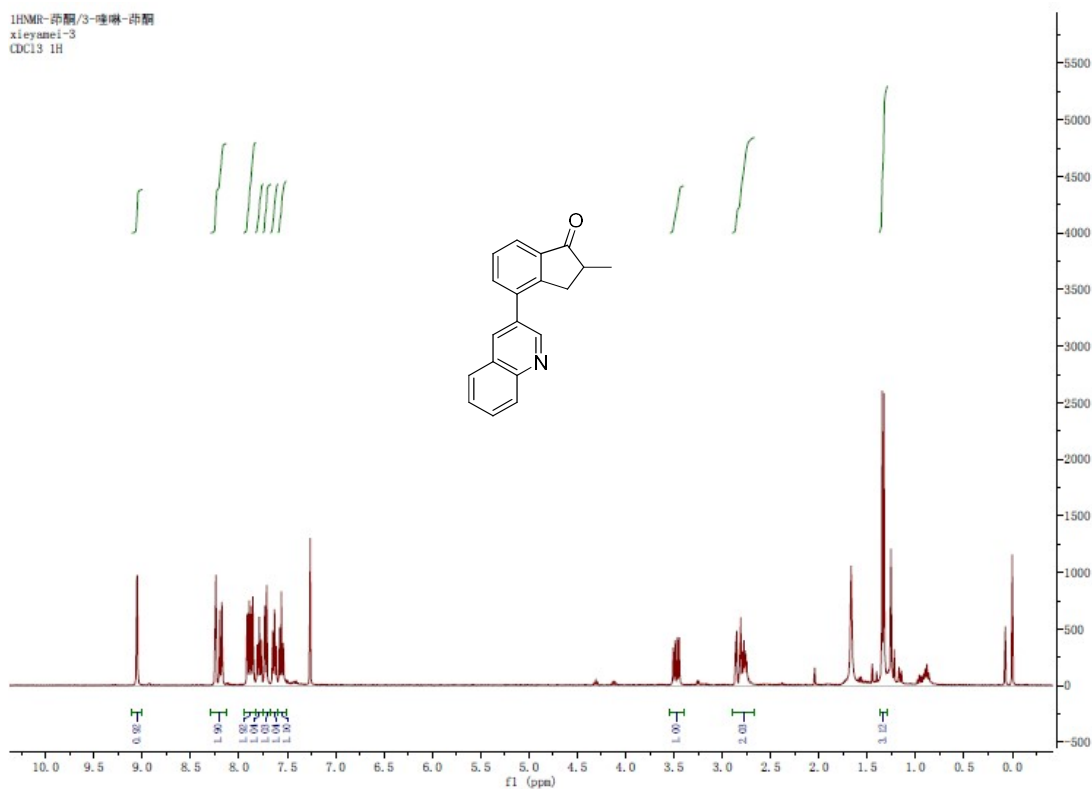
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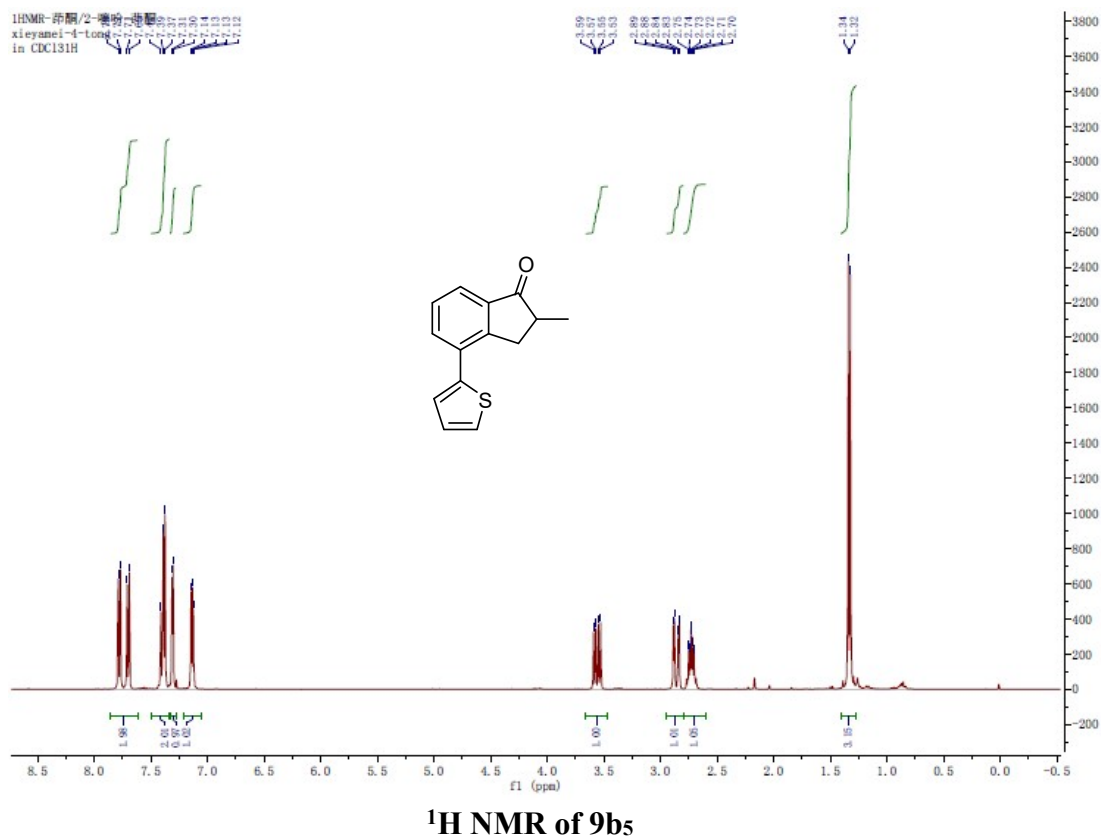
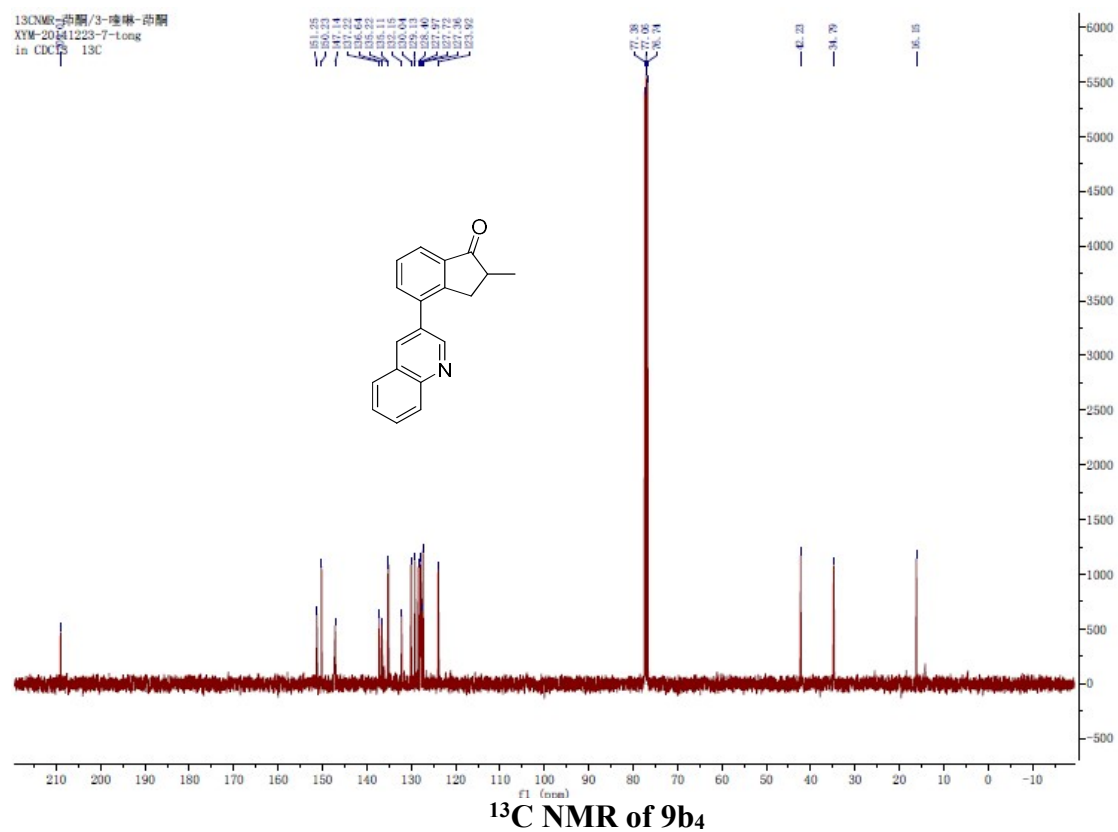


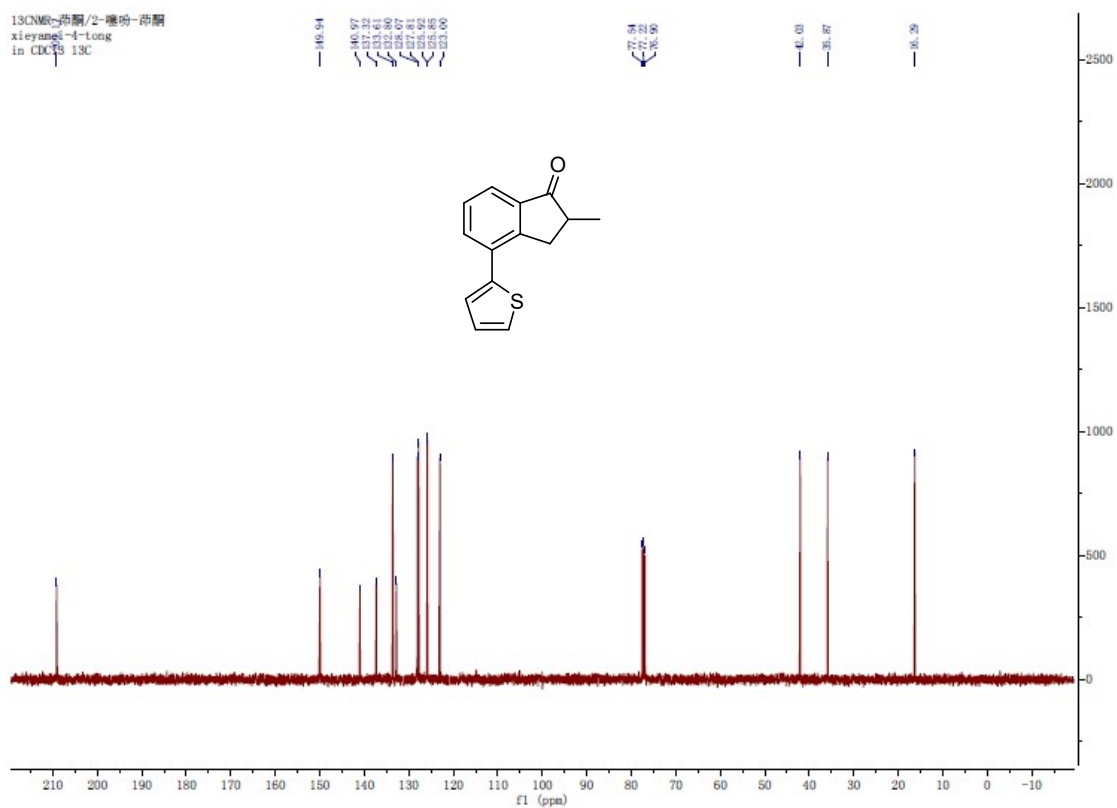
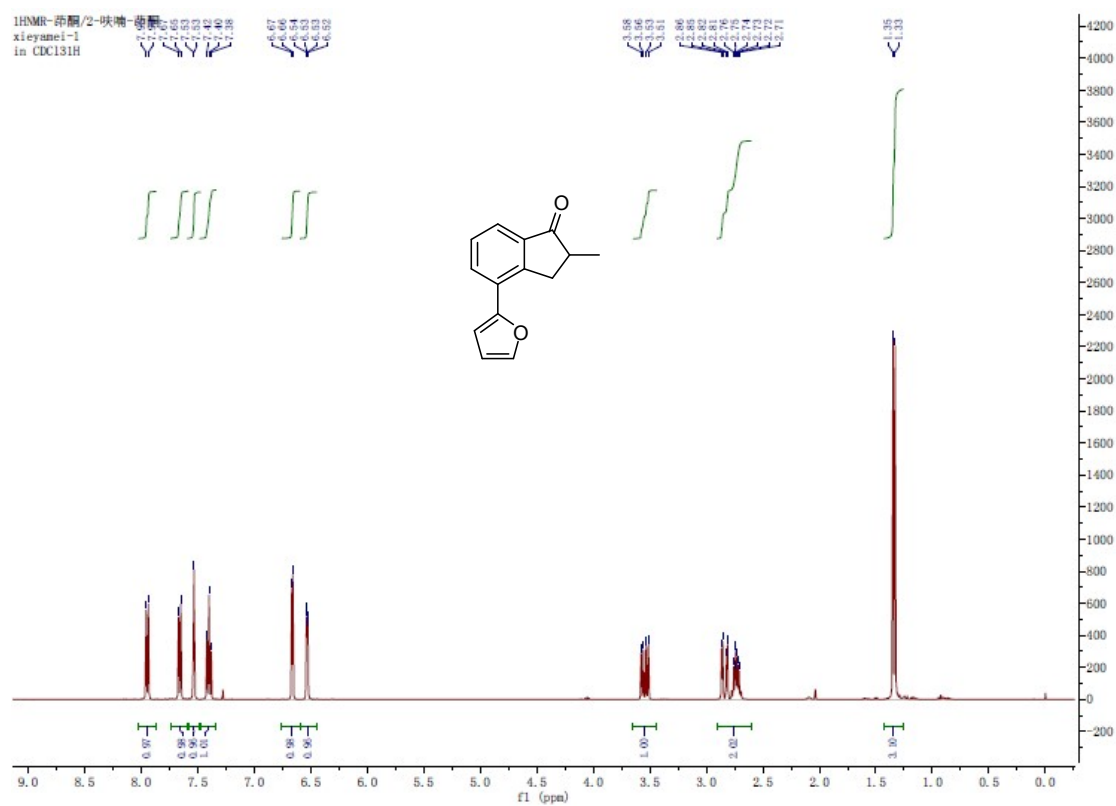


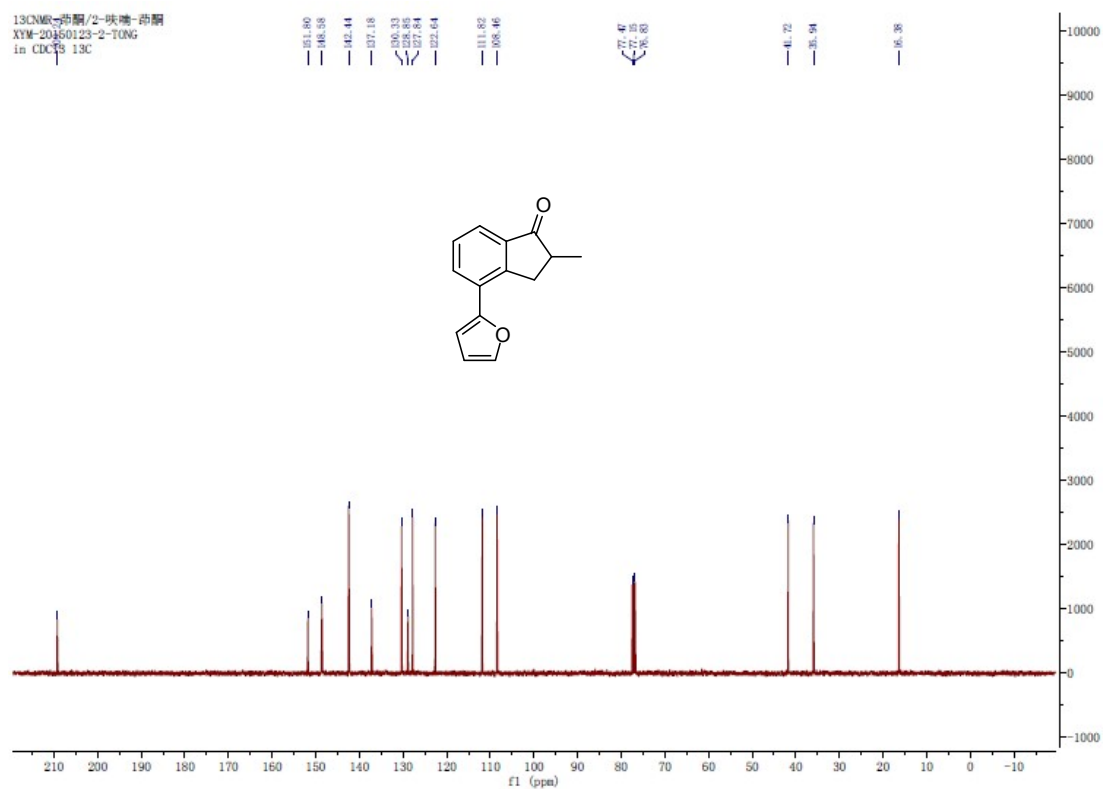
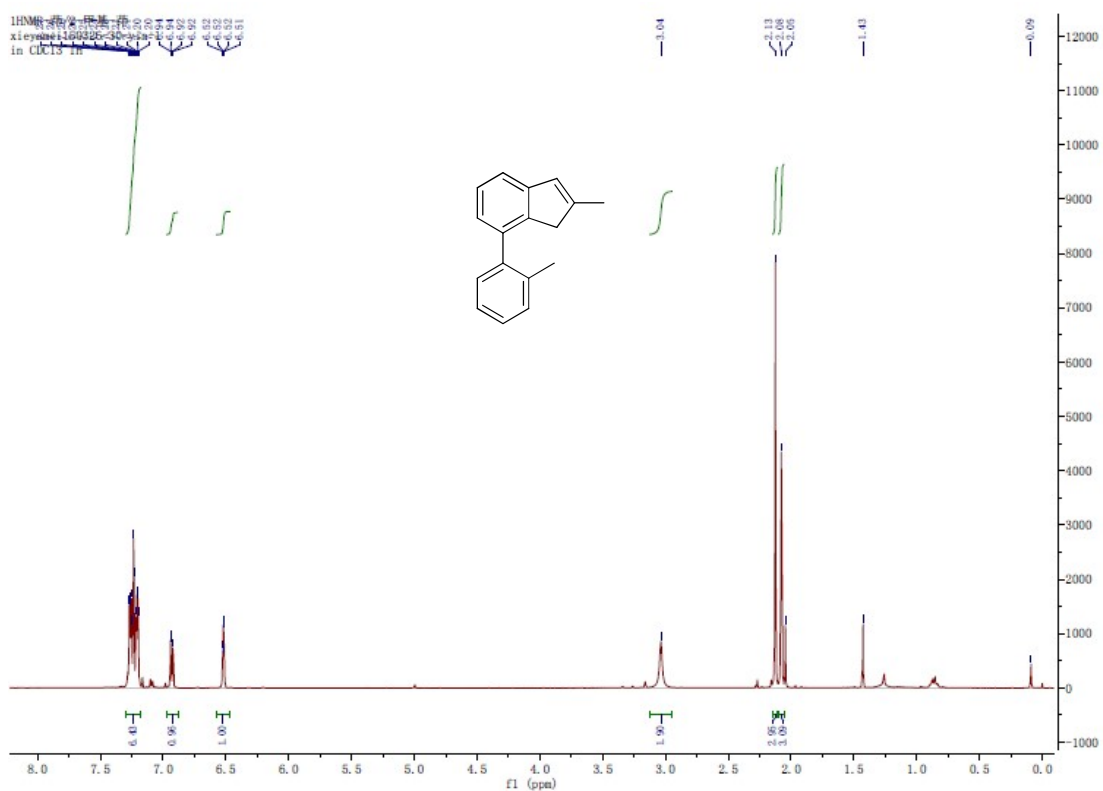
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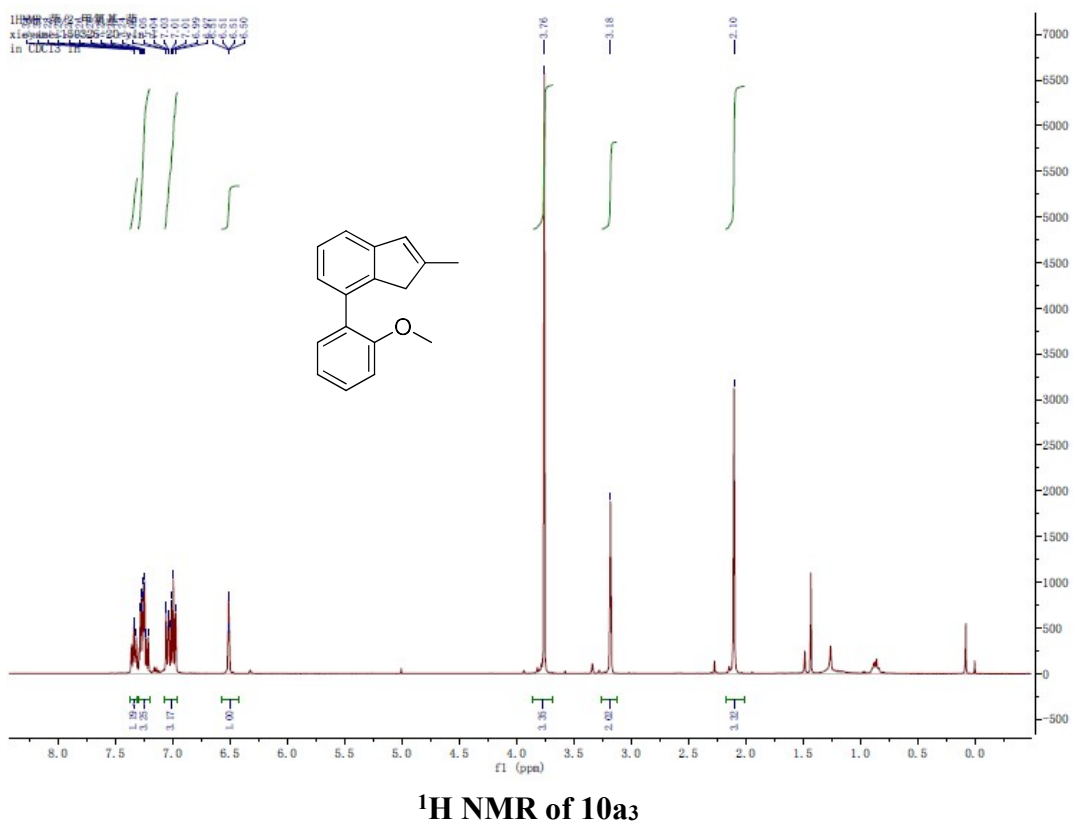
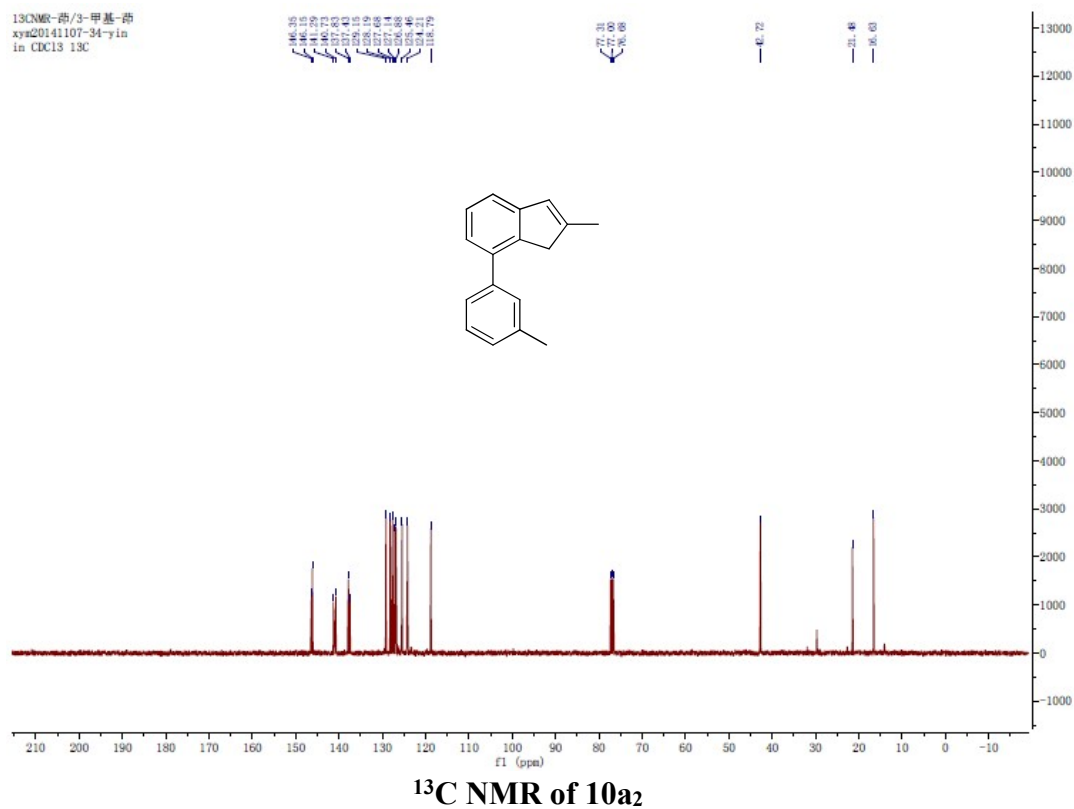
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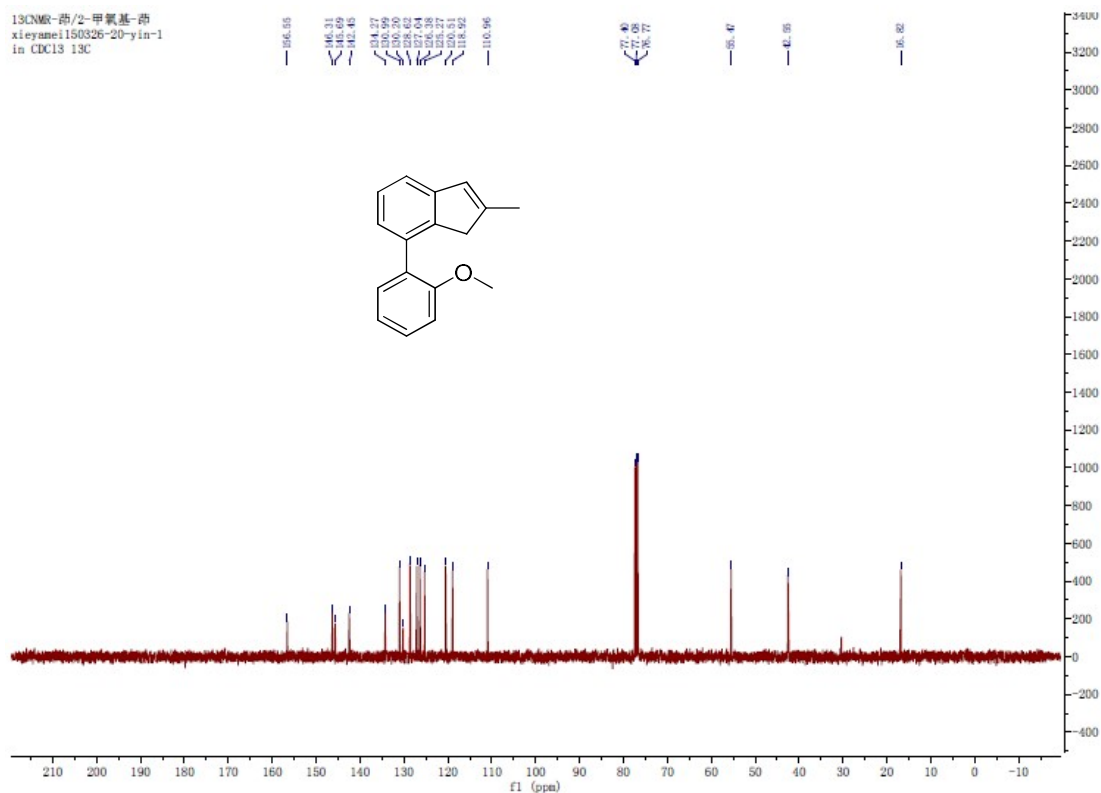
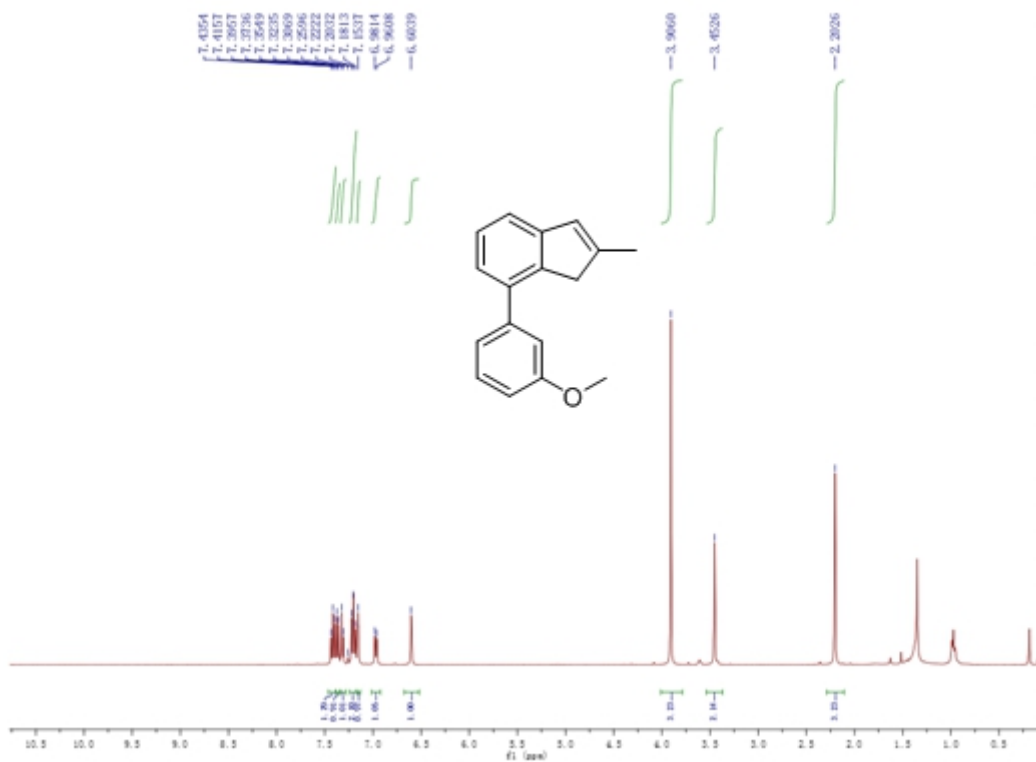


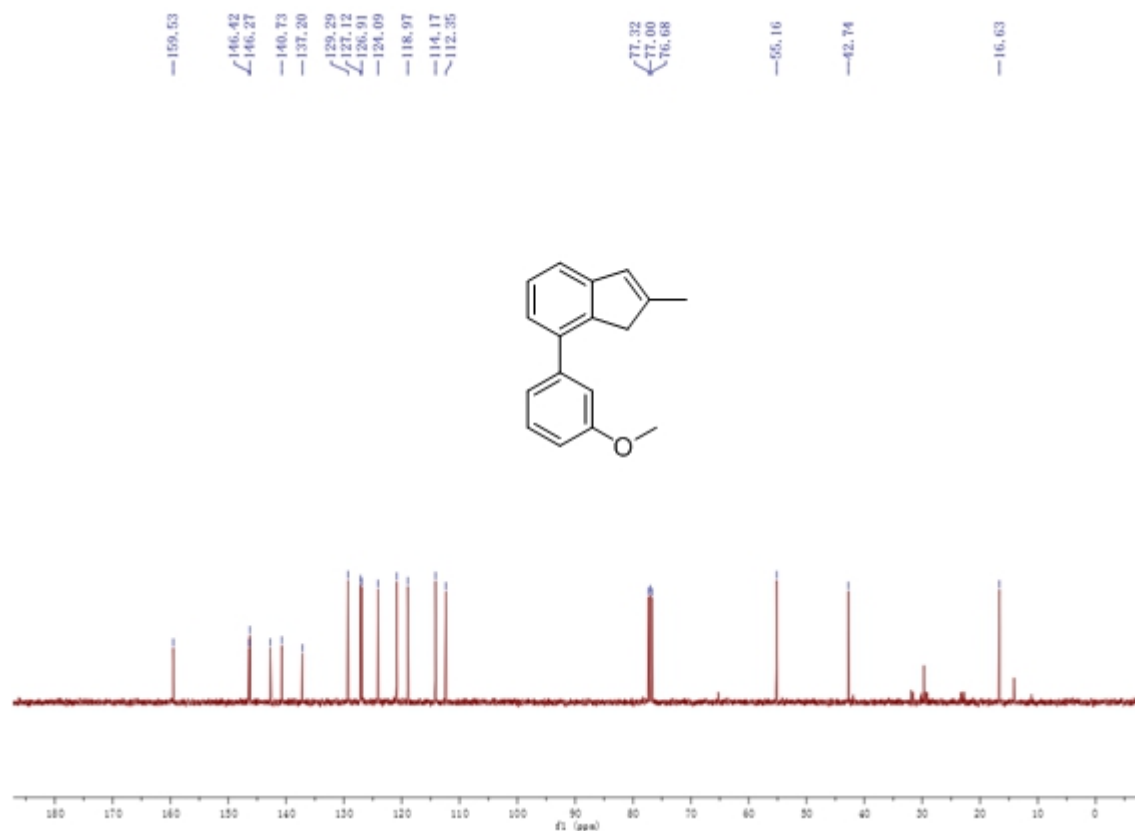
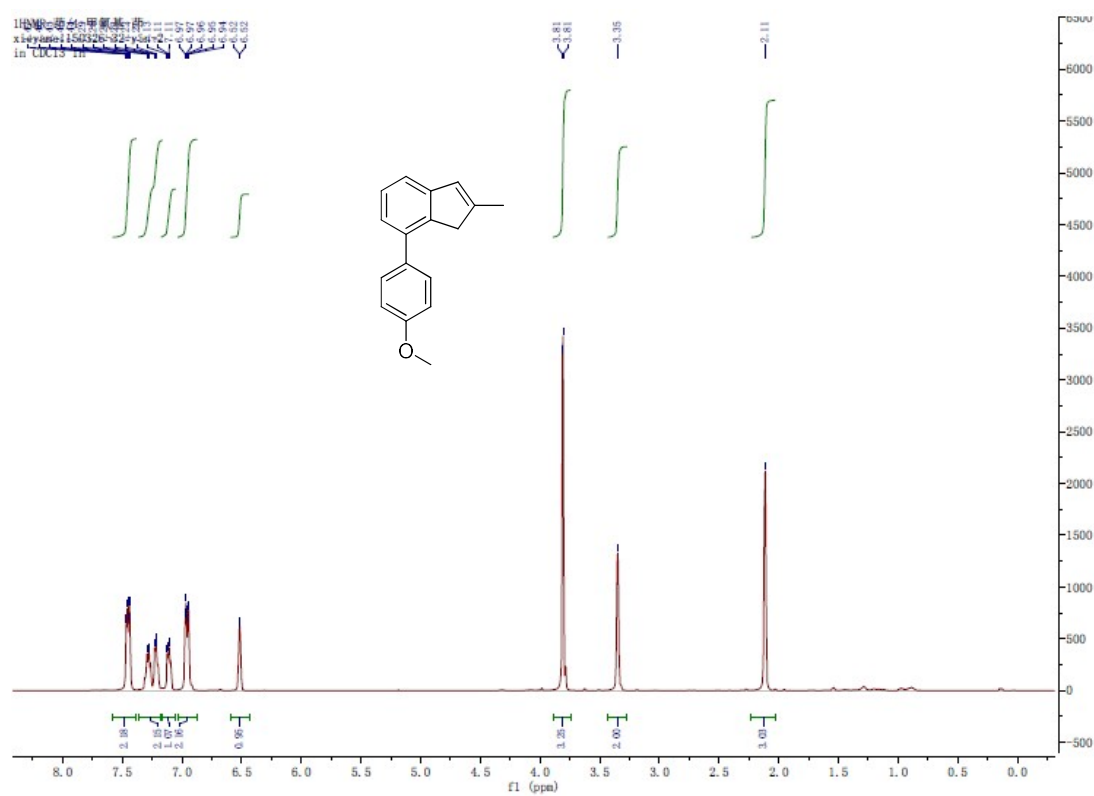
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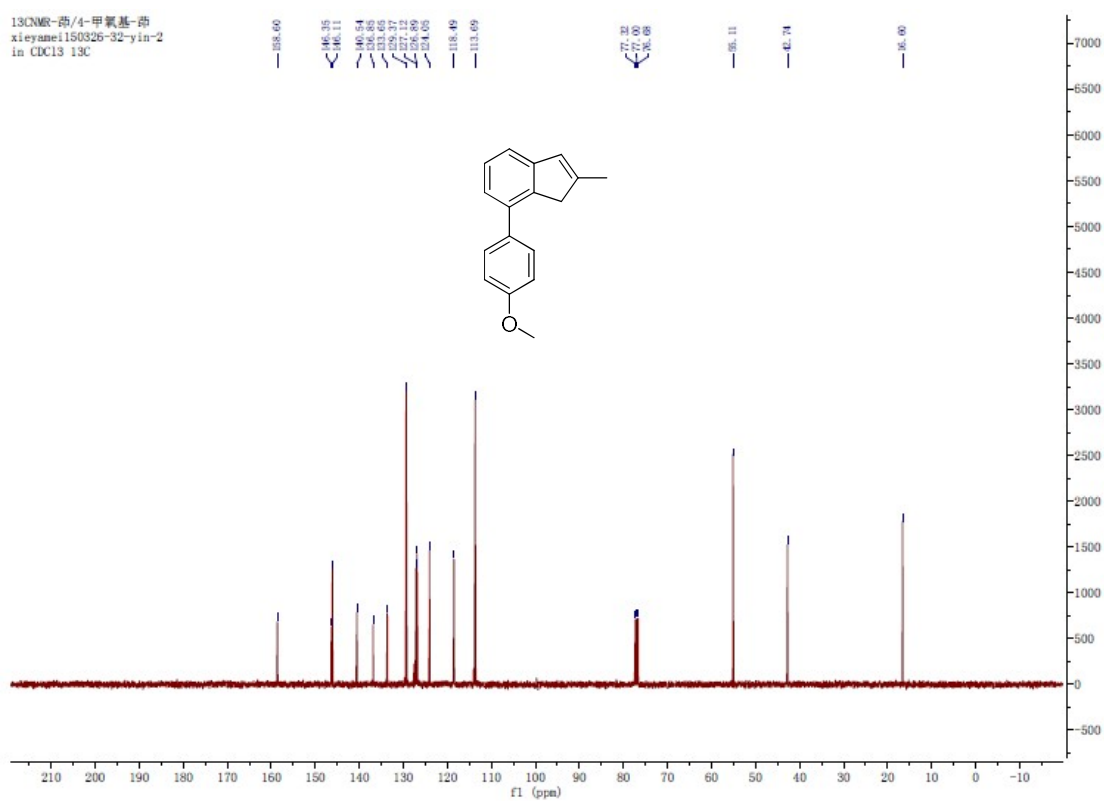
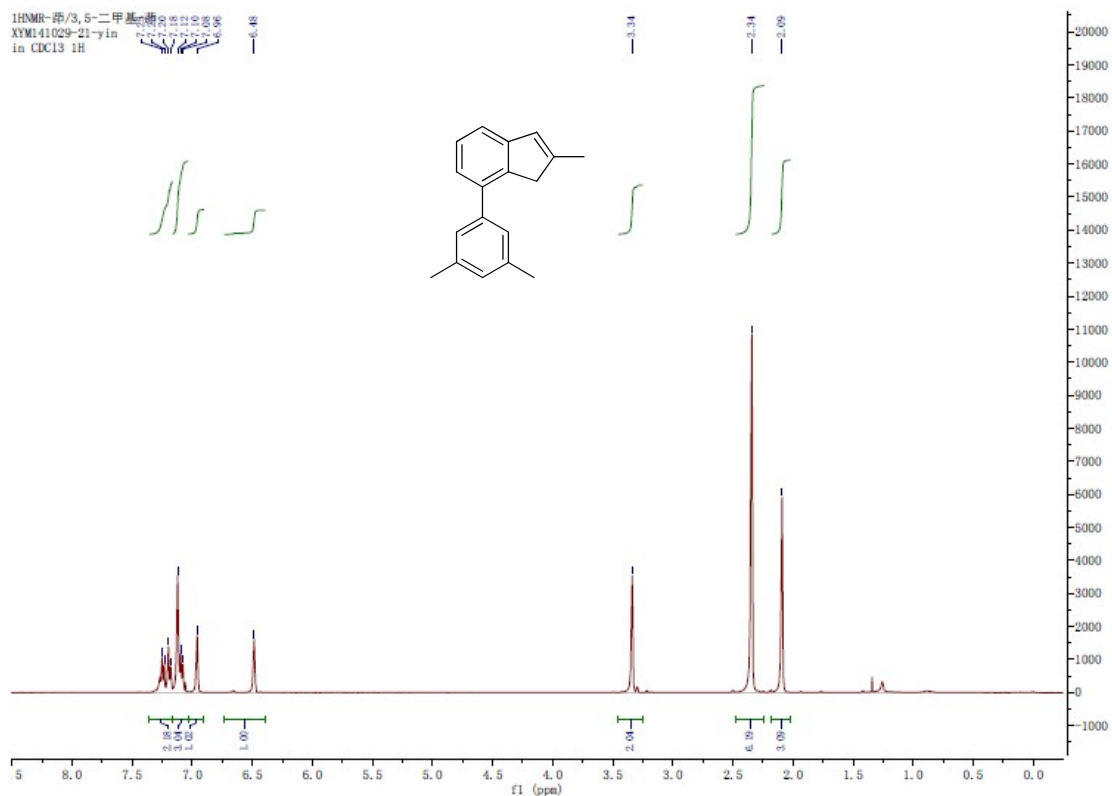
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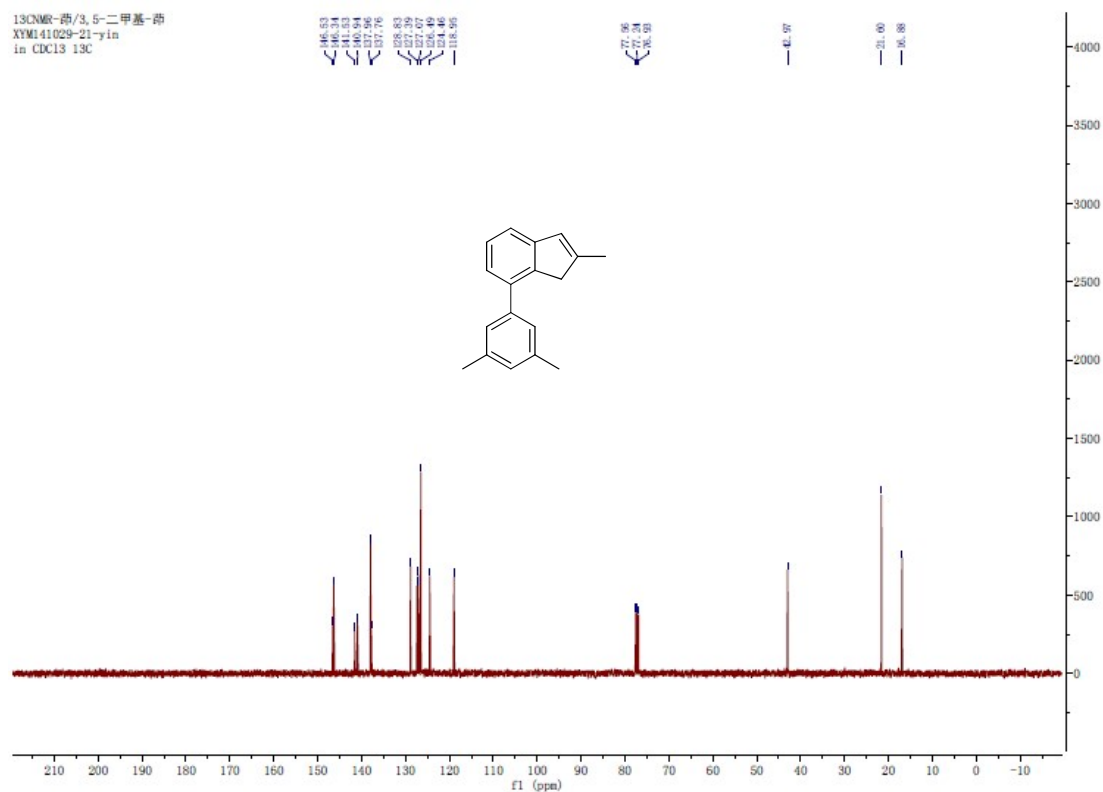
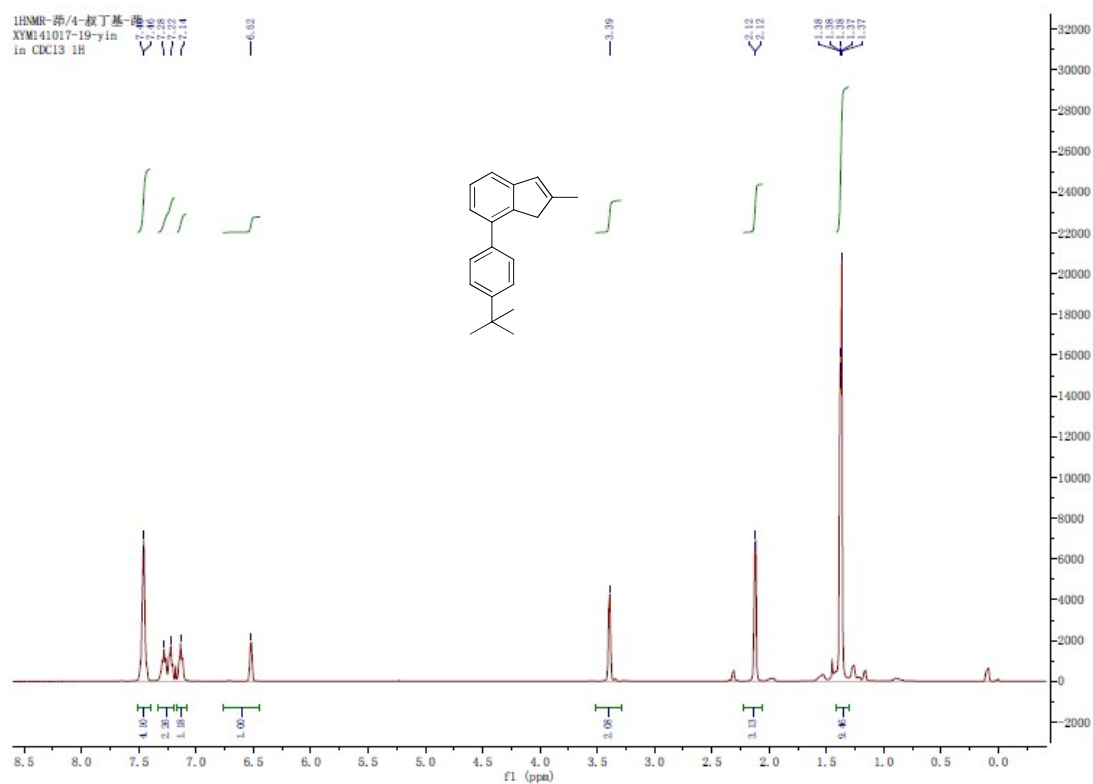


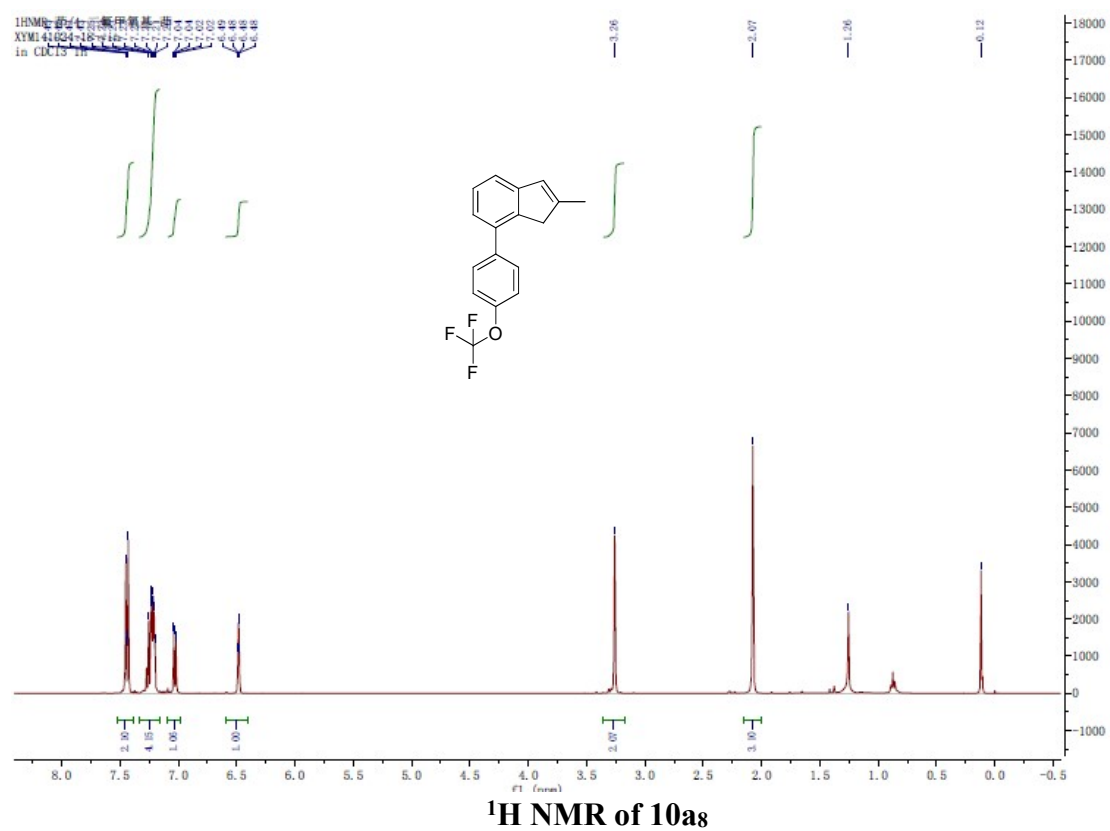
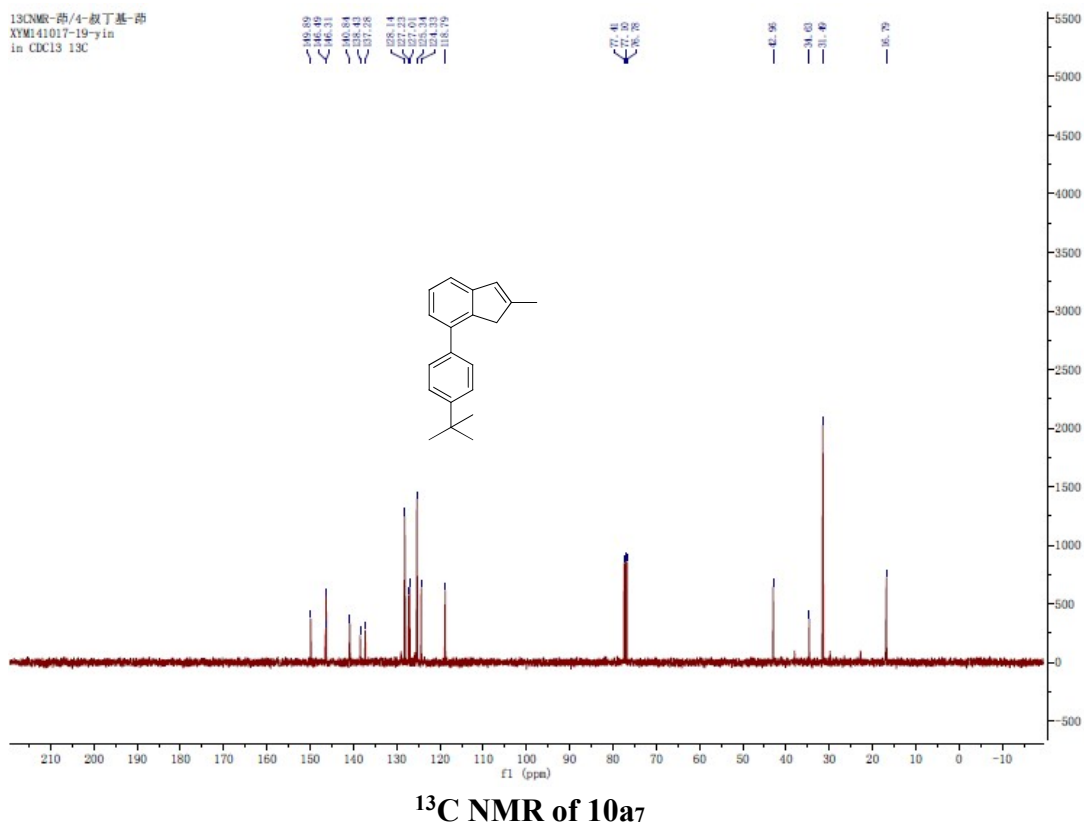


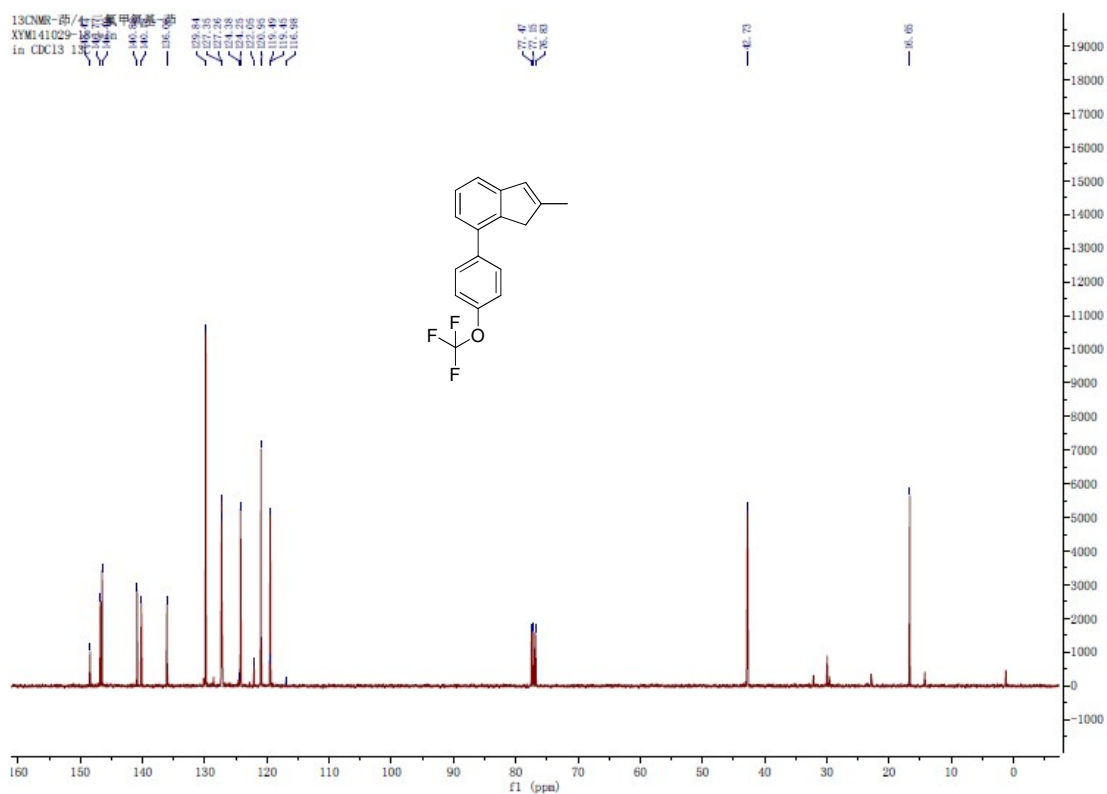
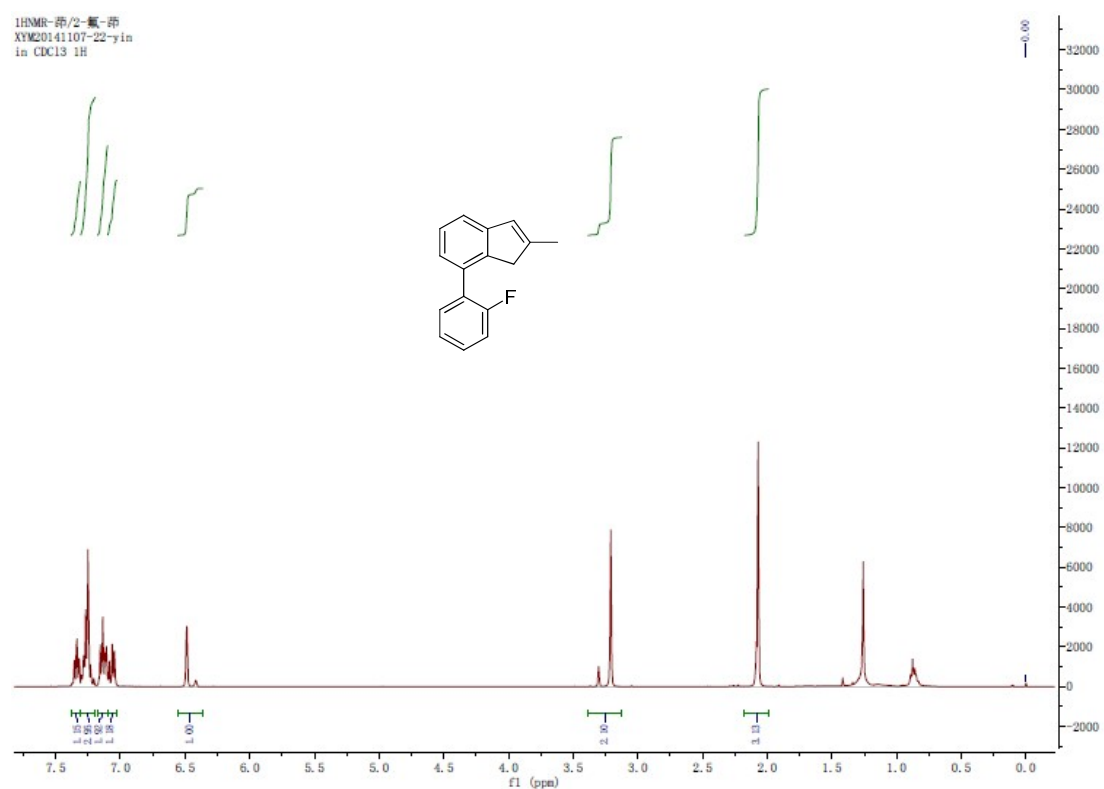
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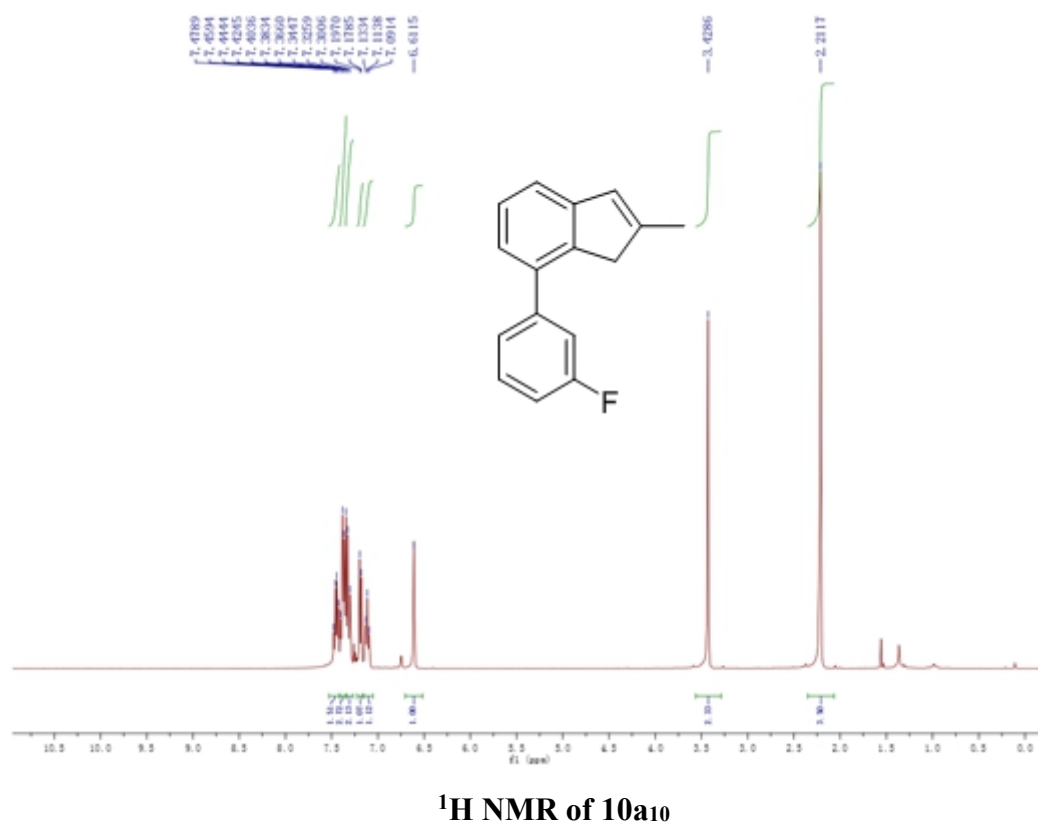
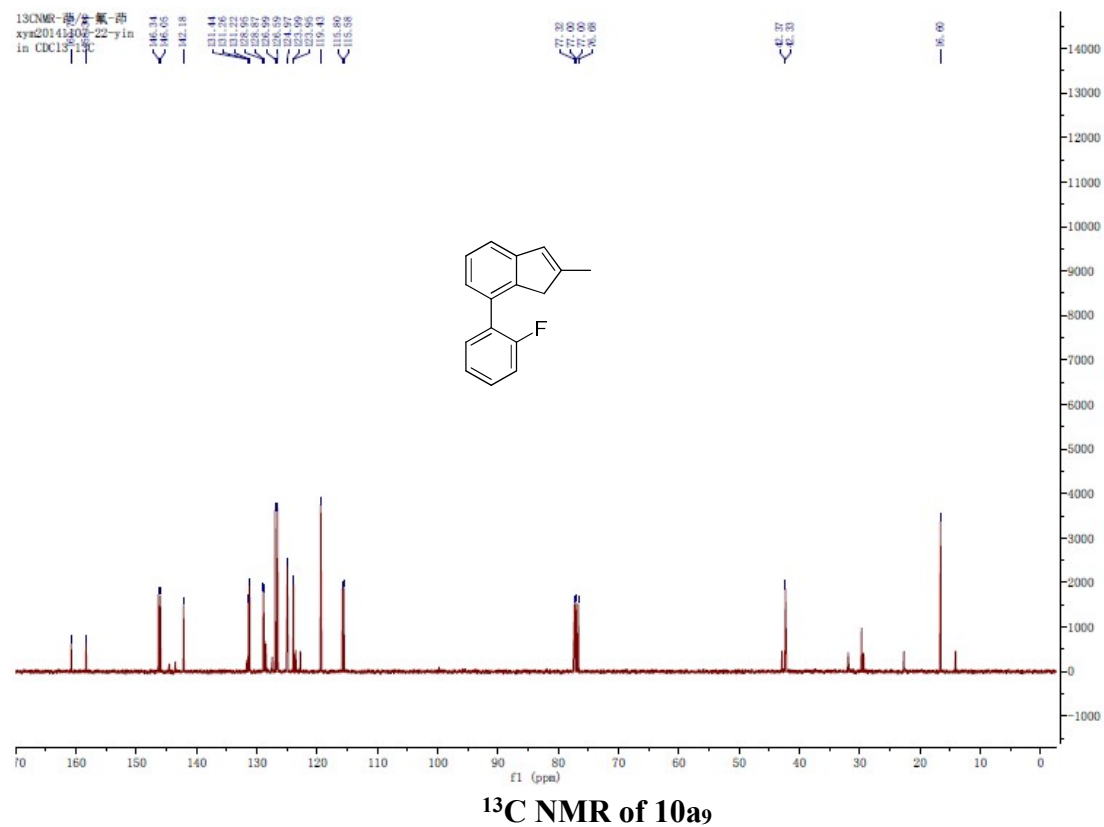
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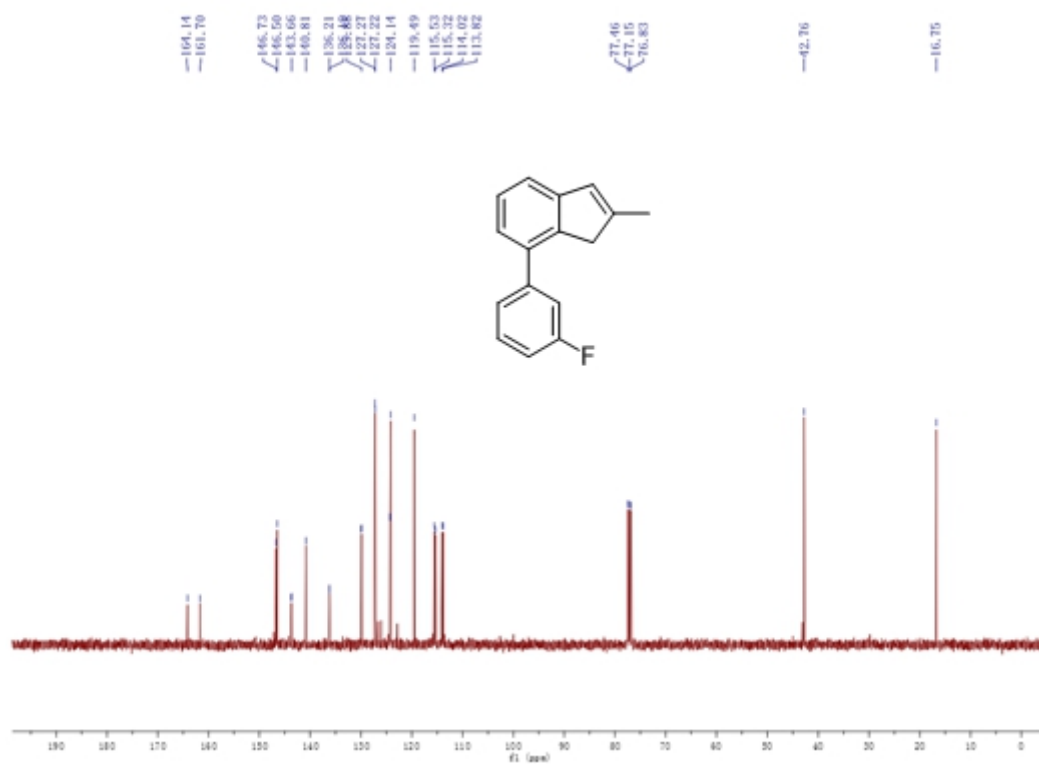
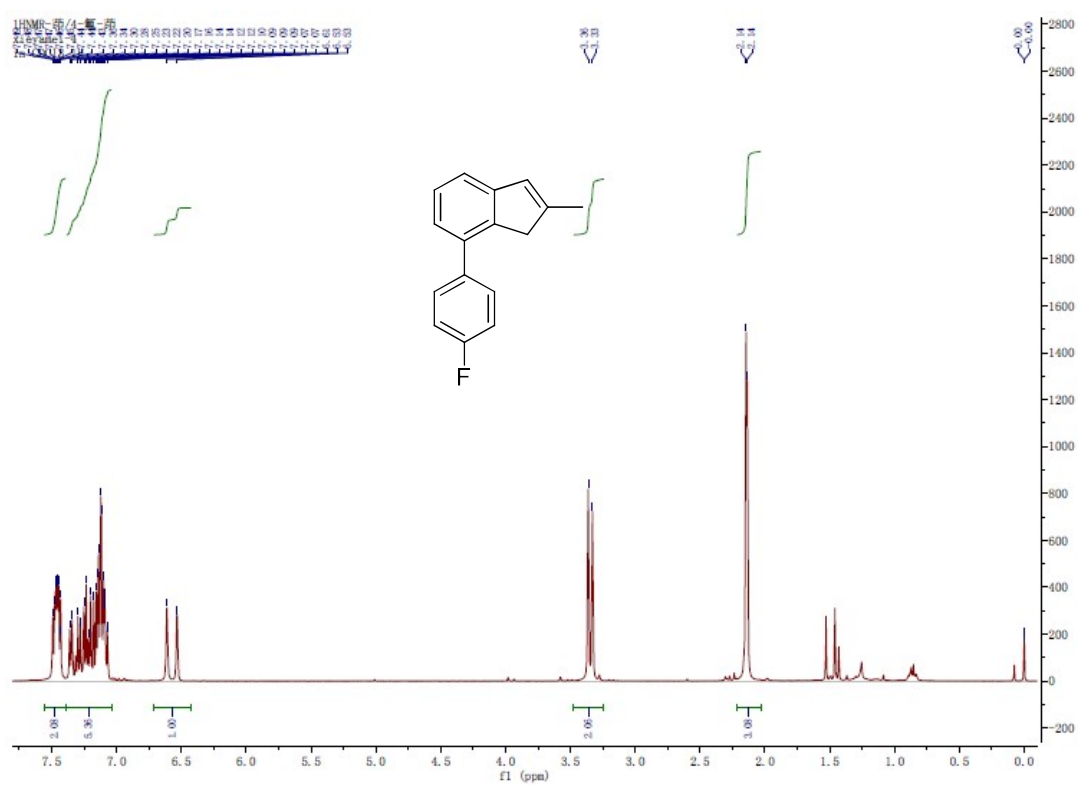
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**¹³C NMR of 10a8****¹H NMR of 10a9**



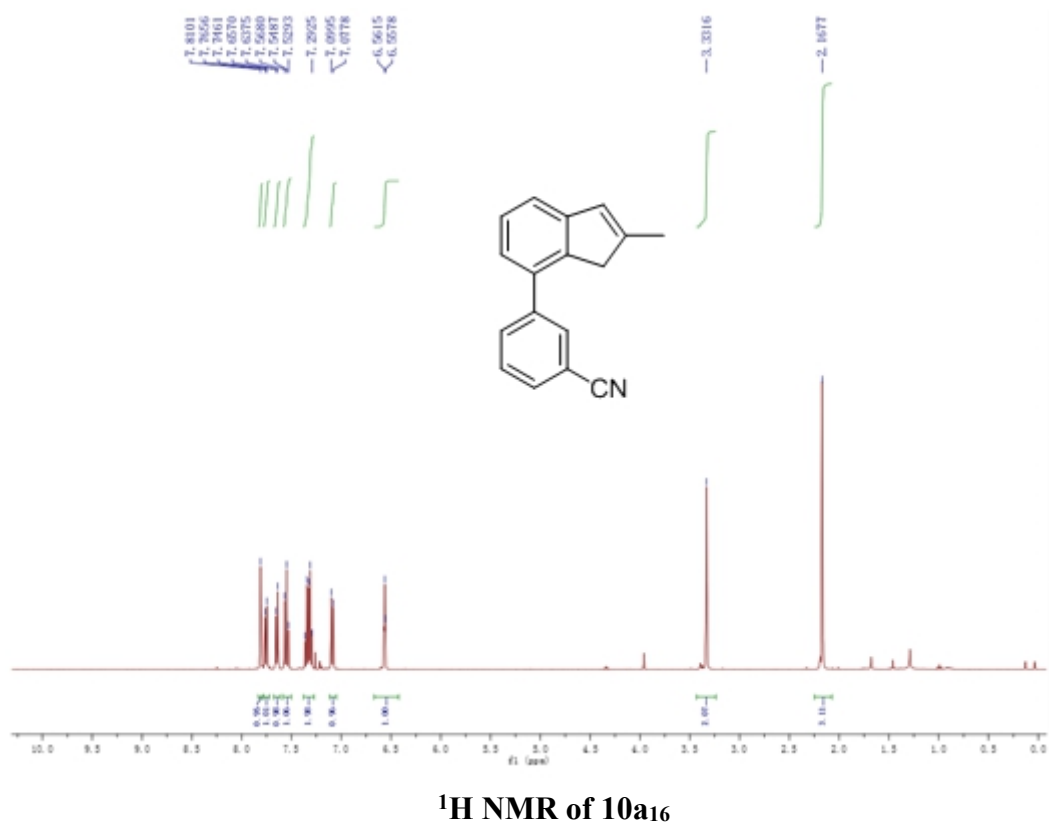
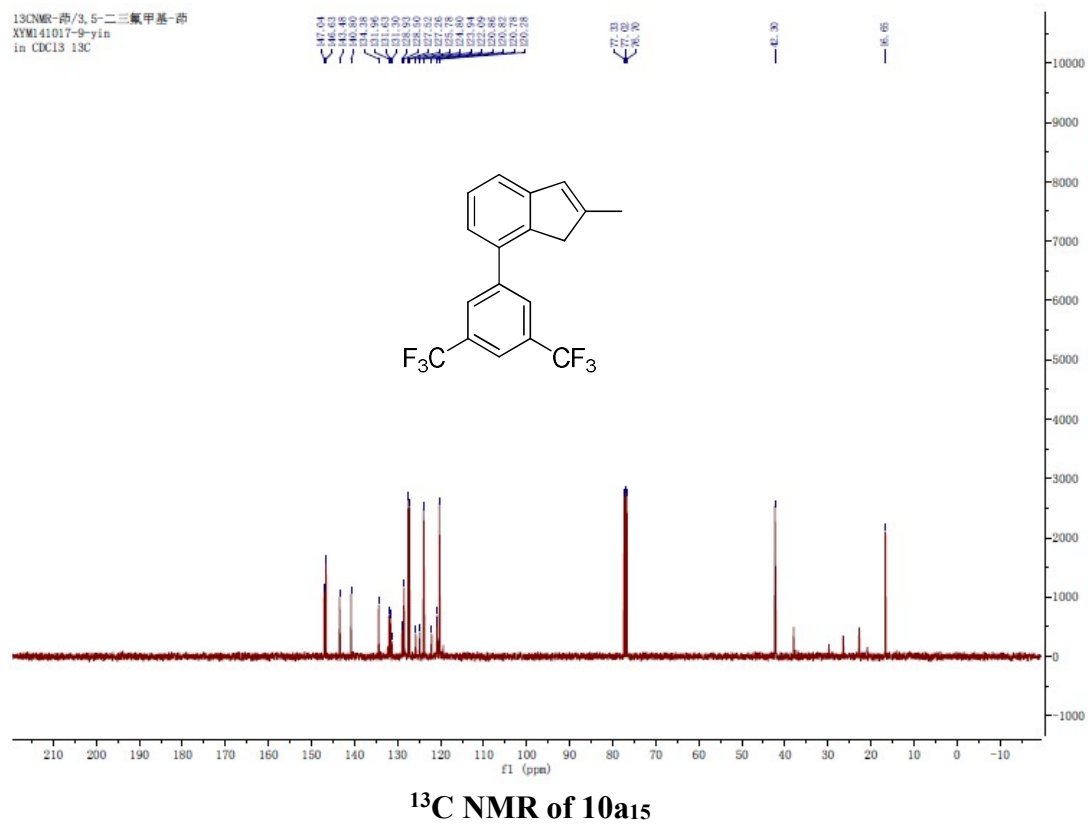
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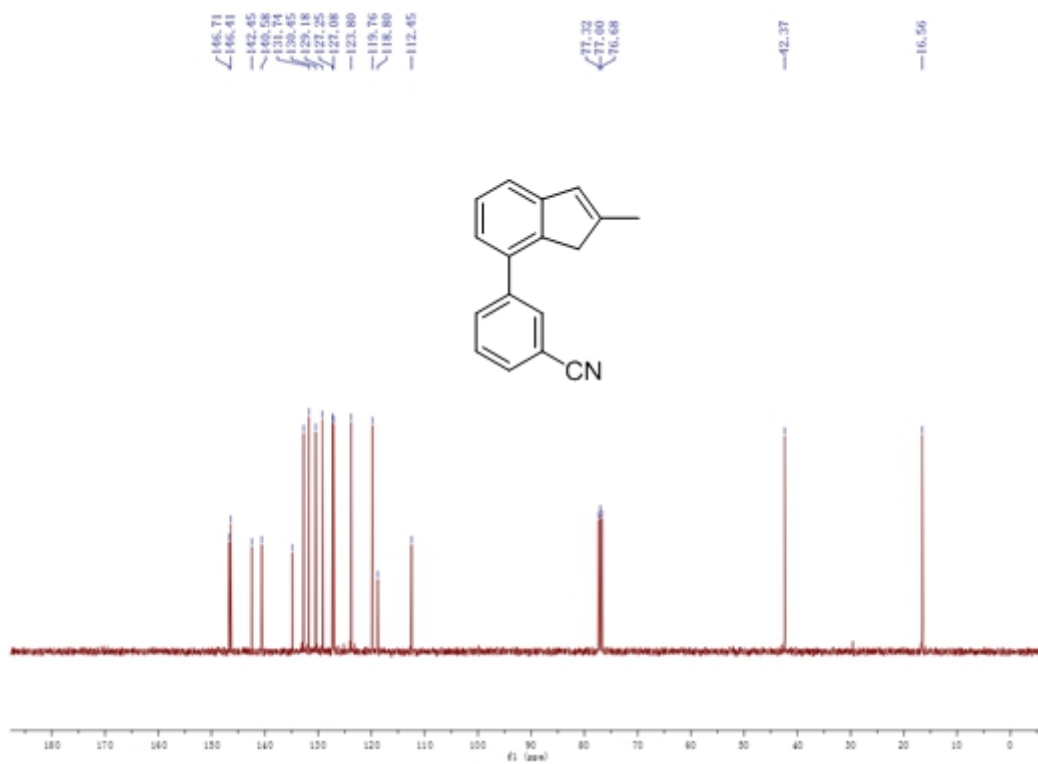
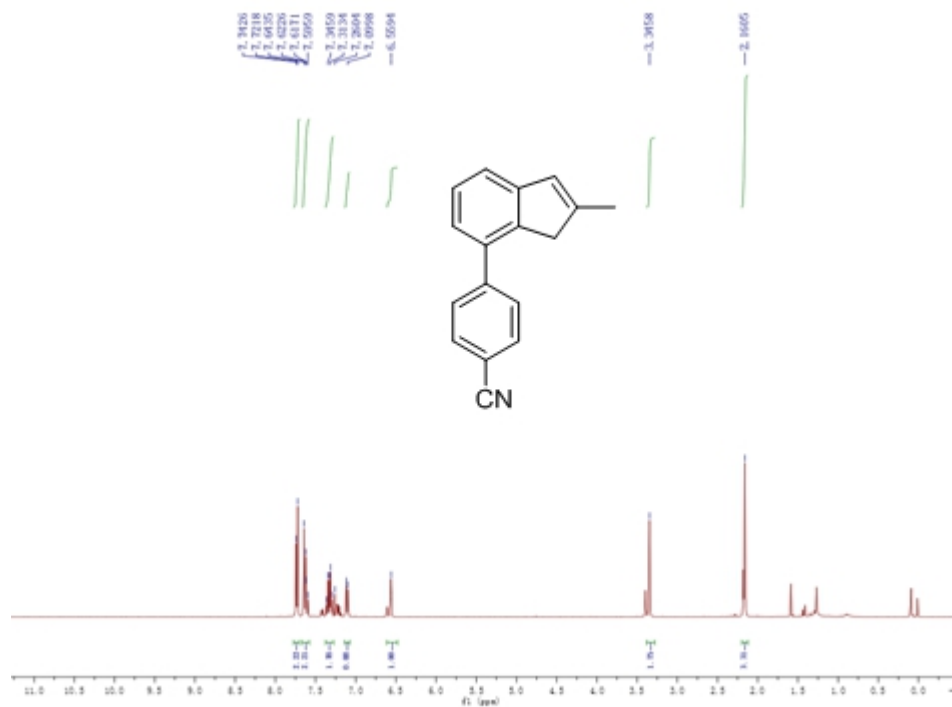


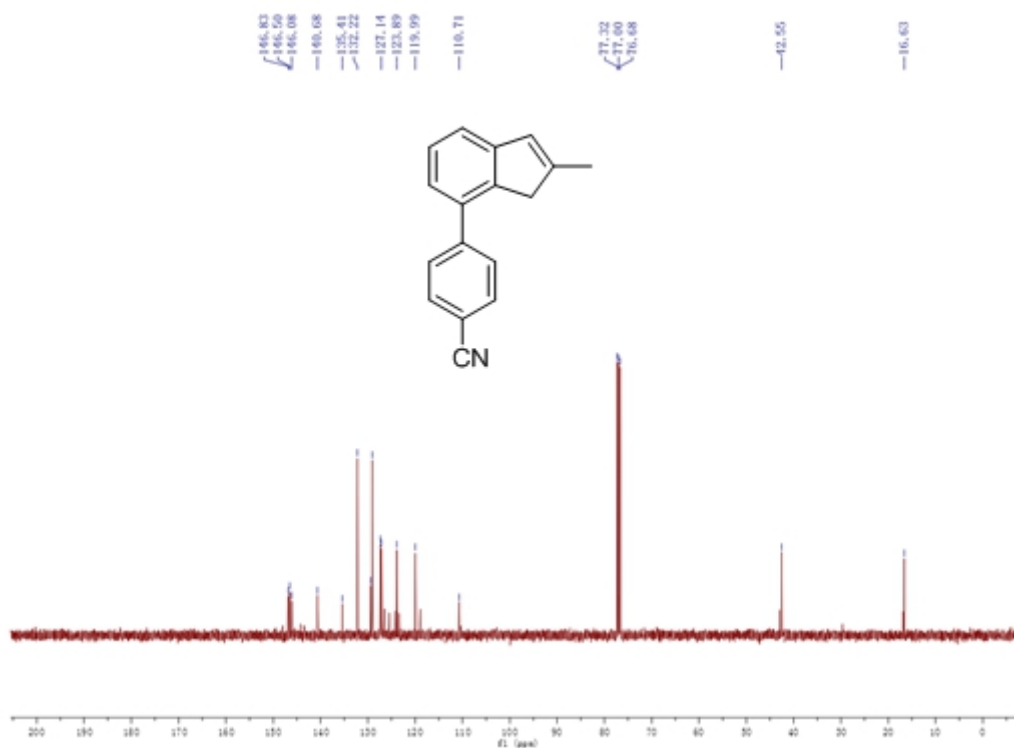
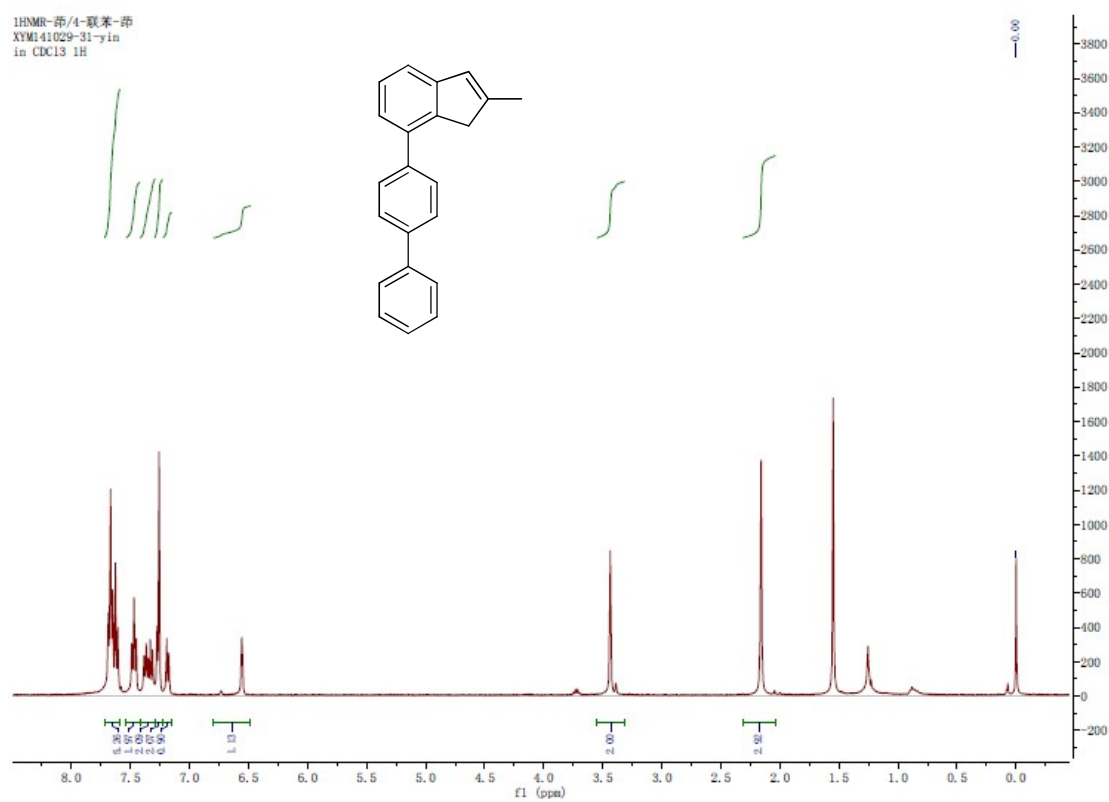




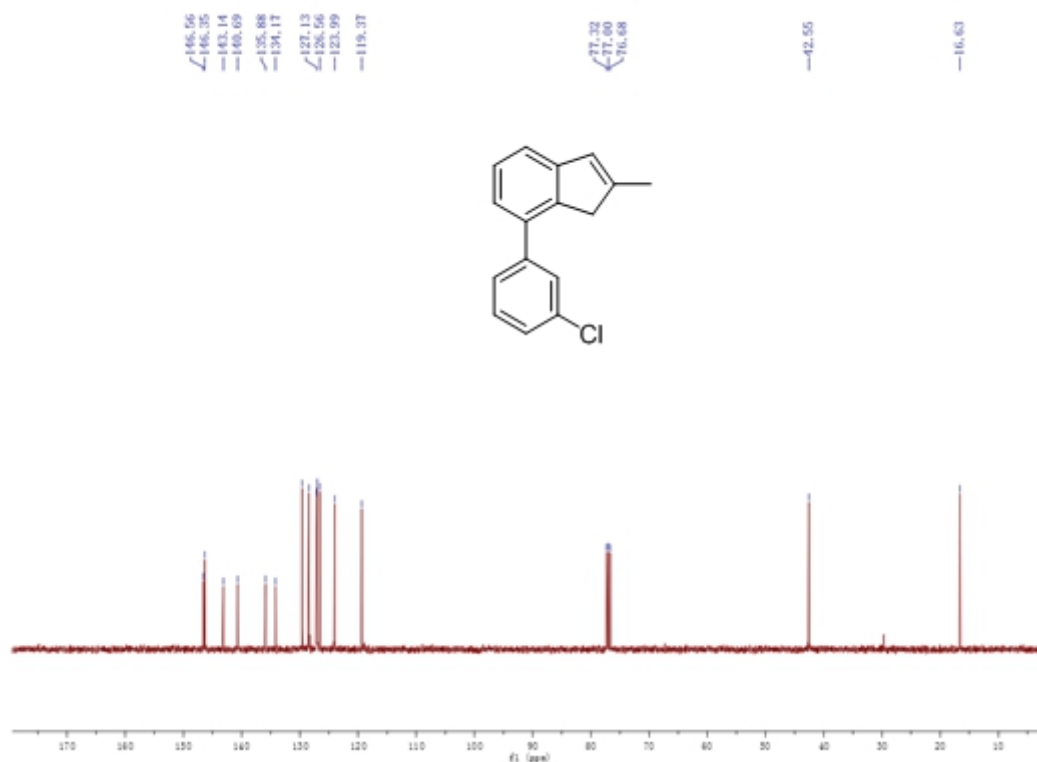
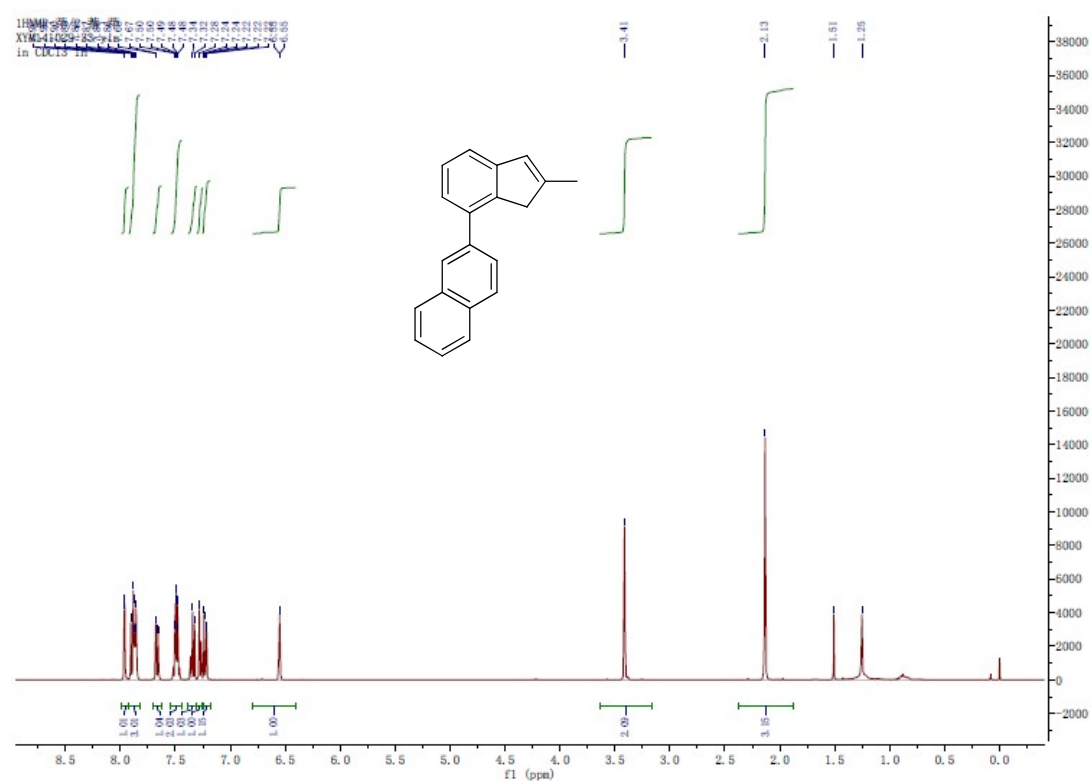


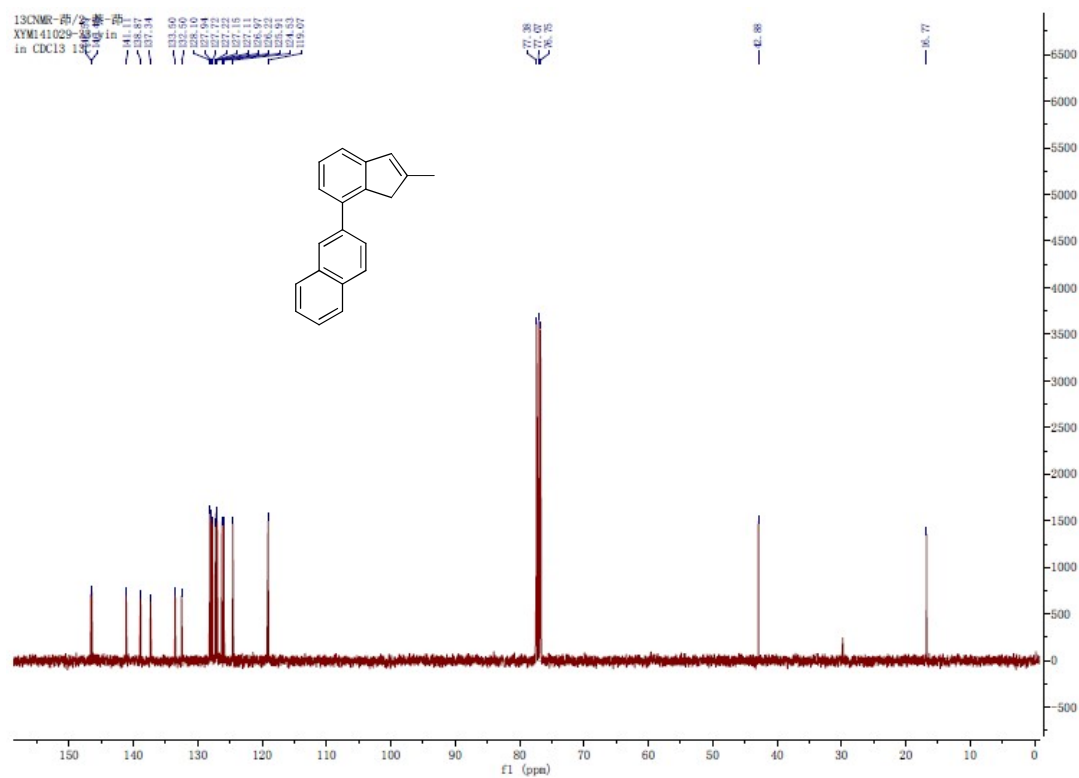
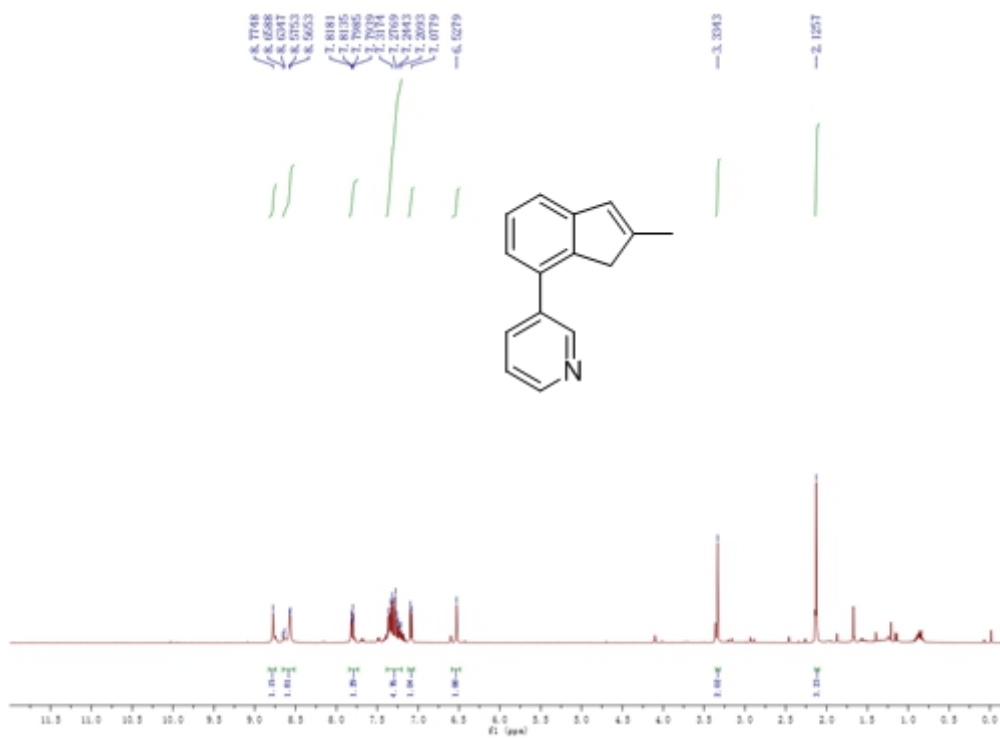


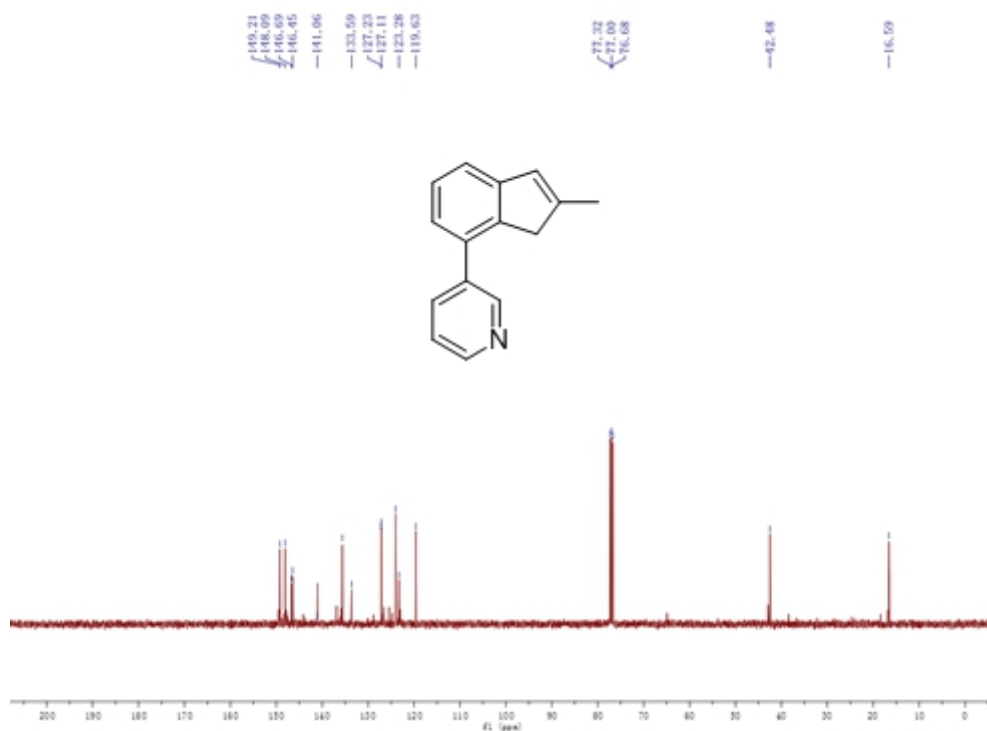
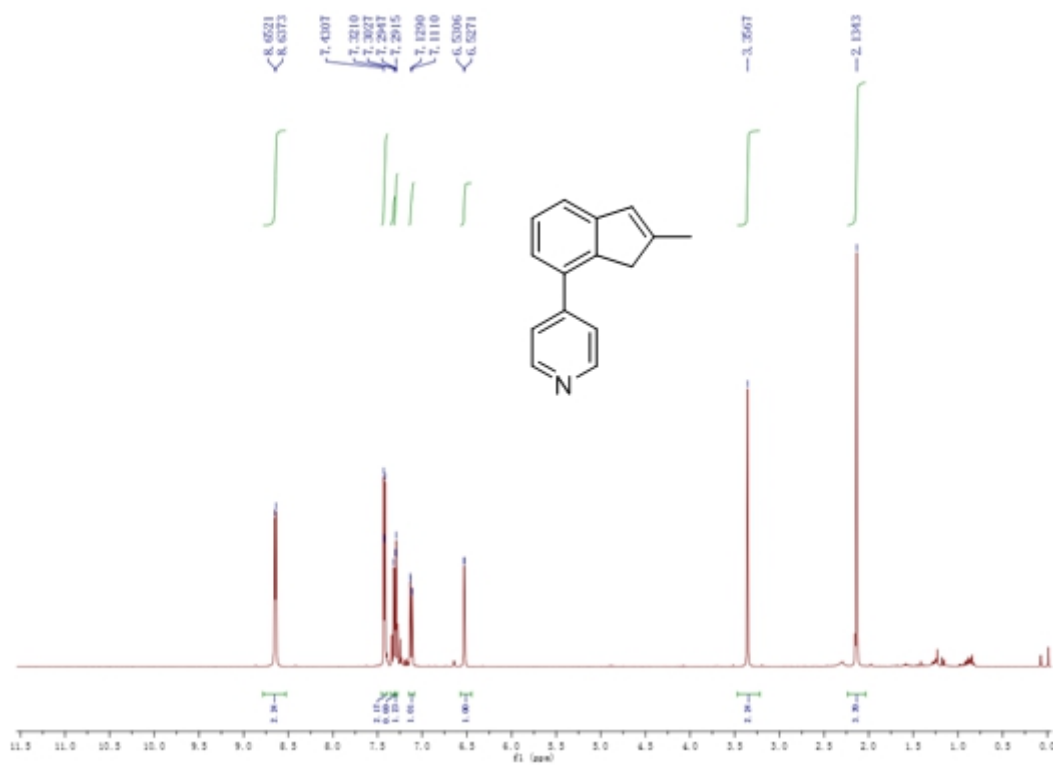
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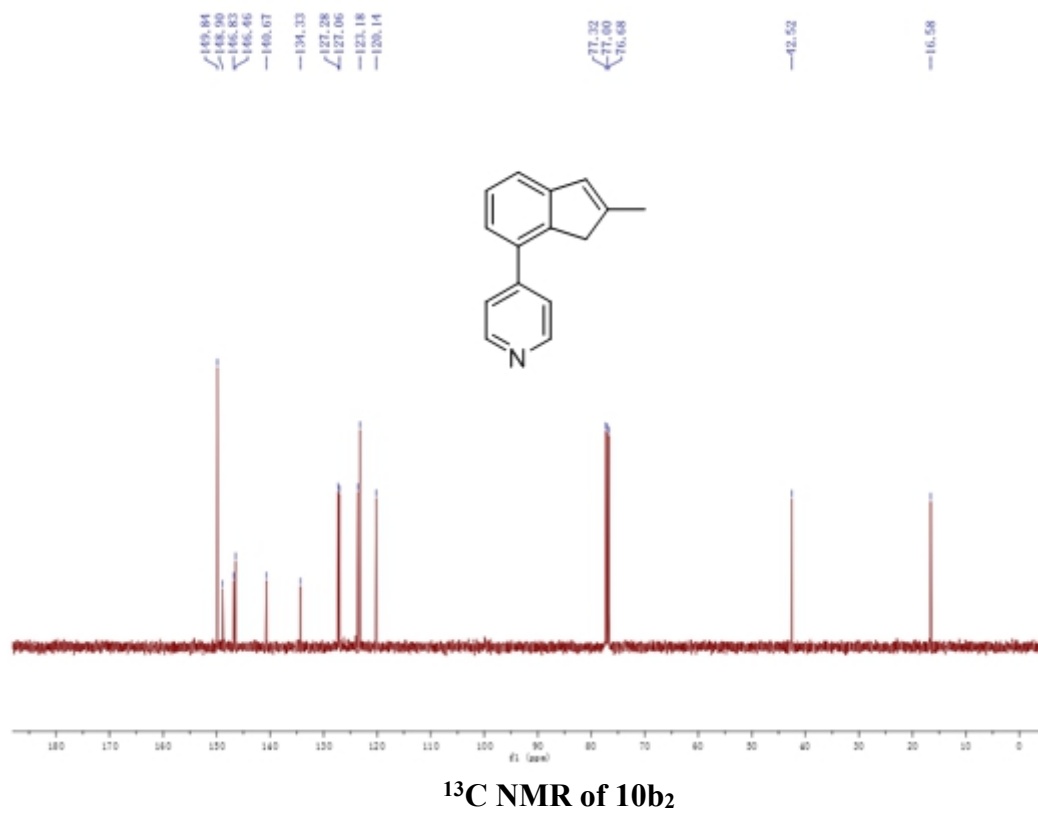
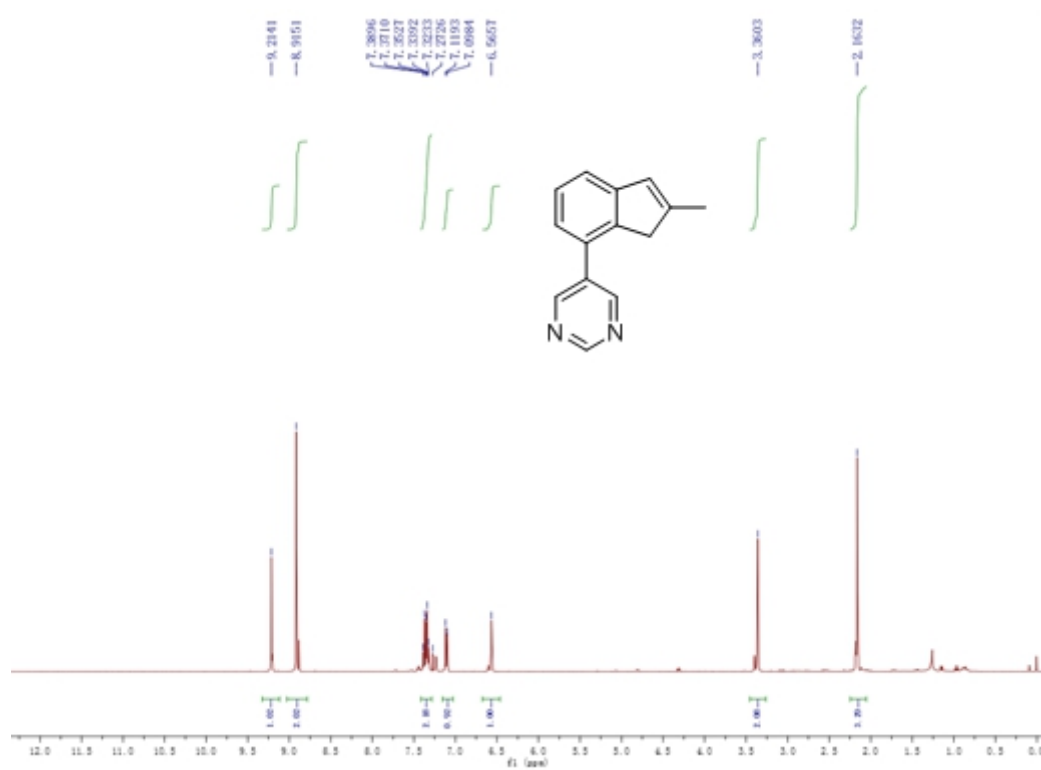
¹³C NMR of 10a17¹H NMR of 10a18



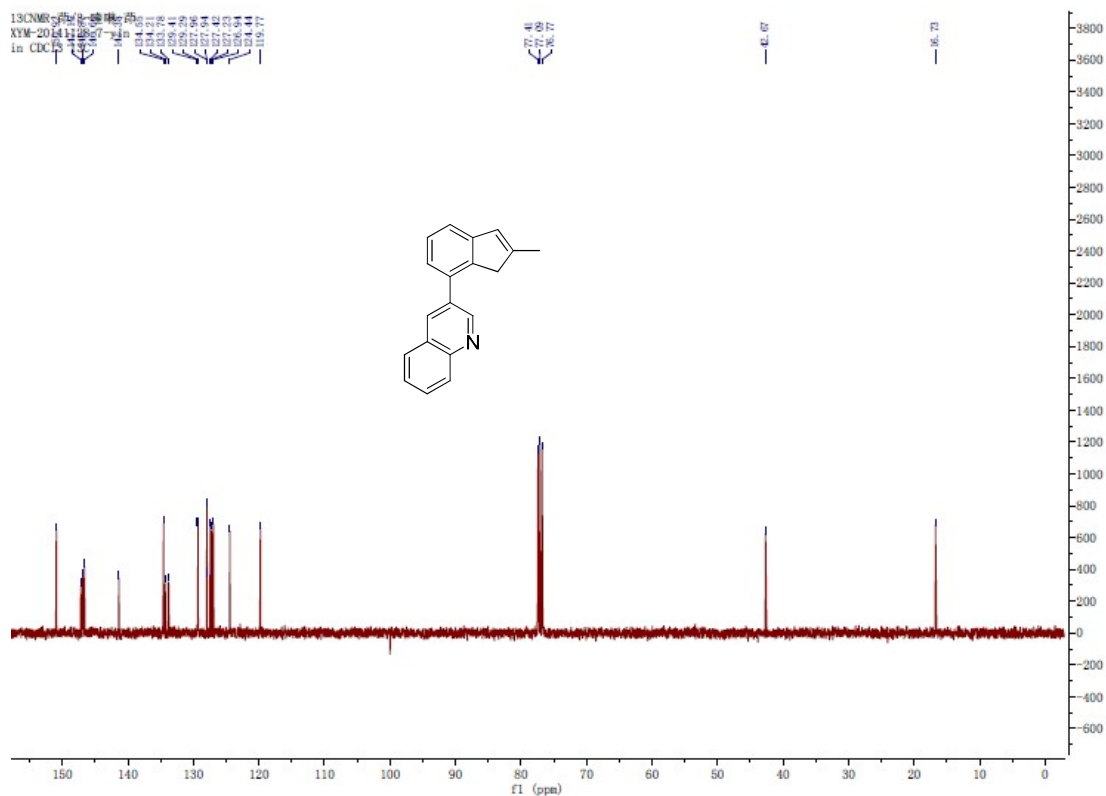
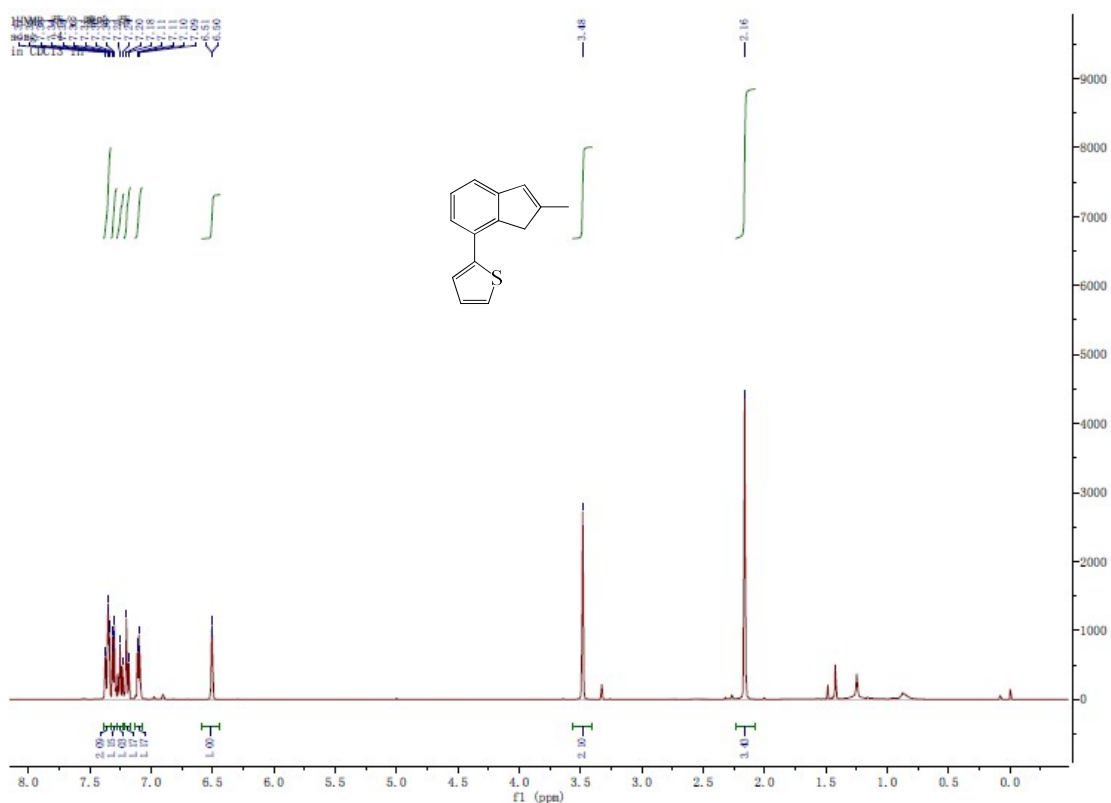
¹³C NMR of 10a20¹H NMR of 10a23

**¹³C NMR of 10a₂₃****¹H NMR of 10b₁**

¹³C NMR of 10b₁¹H NMR of 10b₂

¹³C NMR of 10b₂¹H NMR of 10b₃



**¹³C NMR of 10b4****¹H NMR of 10b5**

