SUPPORTING INFORMATION

Palladium-Catalyzed C-N Cross Coupling of NH-Heteroarenes and Quaternary Ammonium Salts via C-N Bond Cleavage

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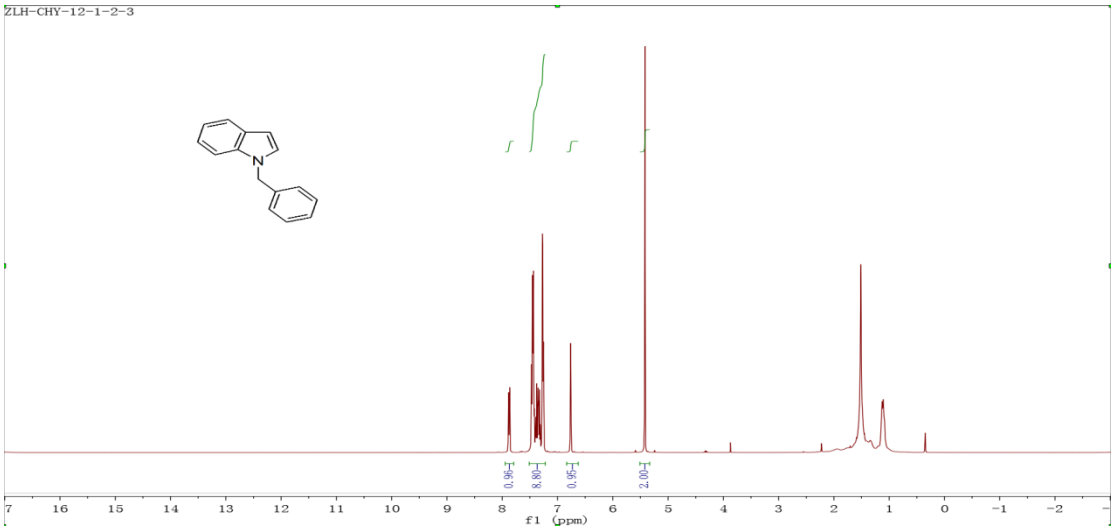
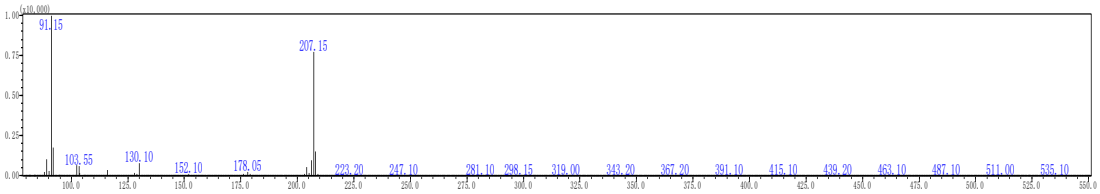
^{1}H and ^{13}C NMR spectra and GC-MS (EI mode) spectra

1-Benzyl-1*H*-indole (4a)





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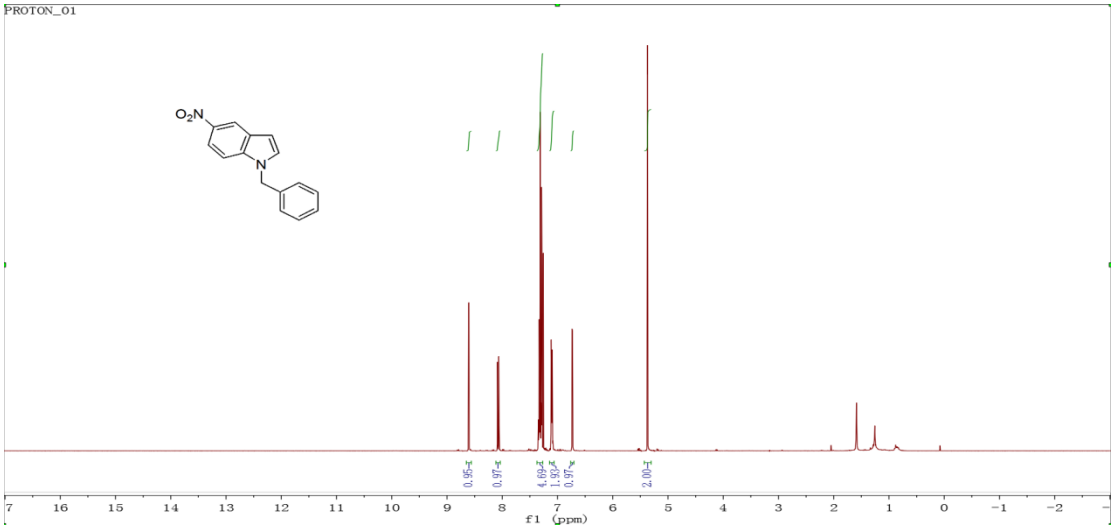

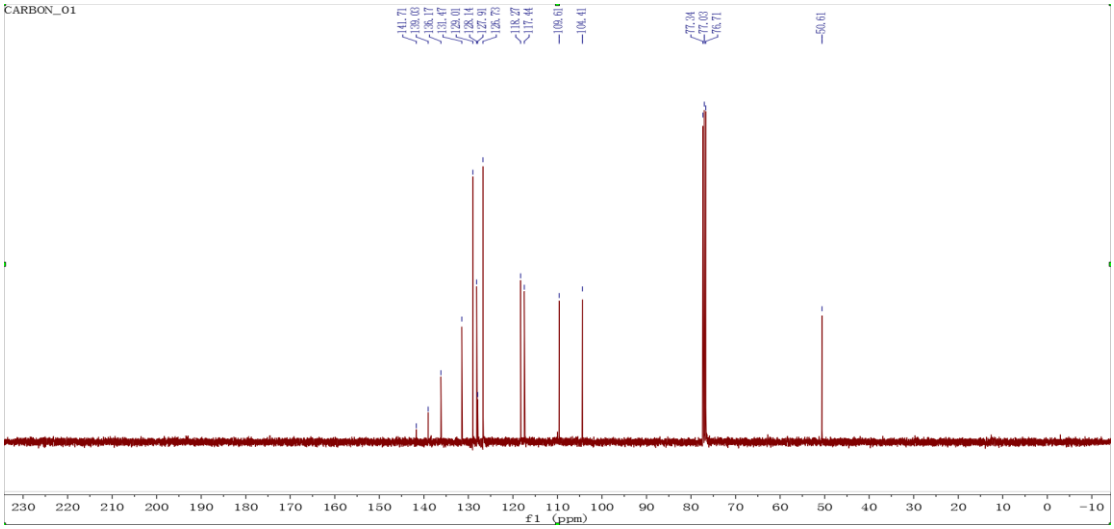

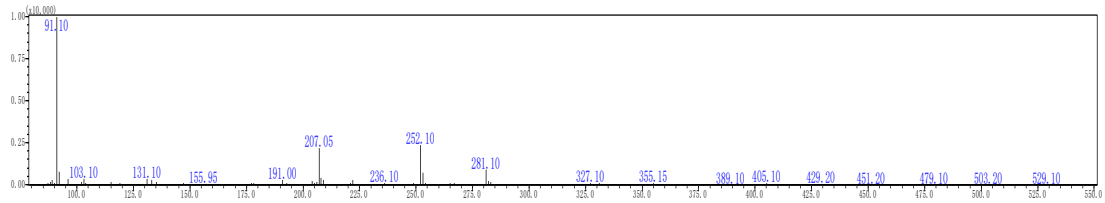

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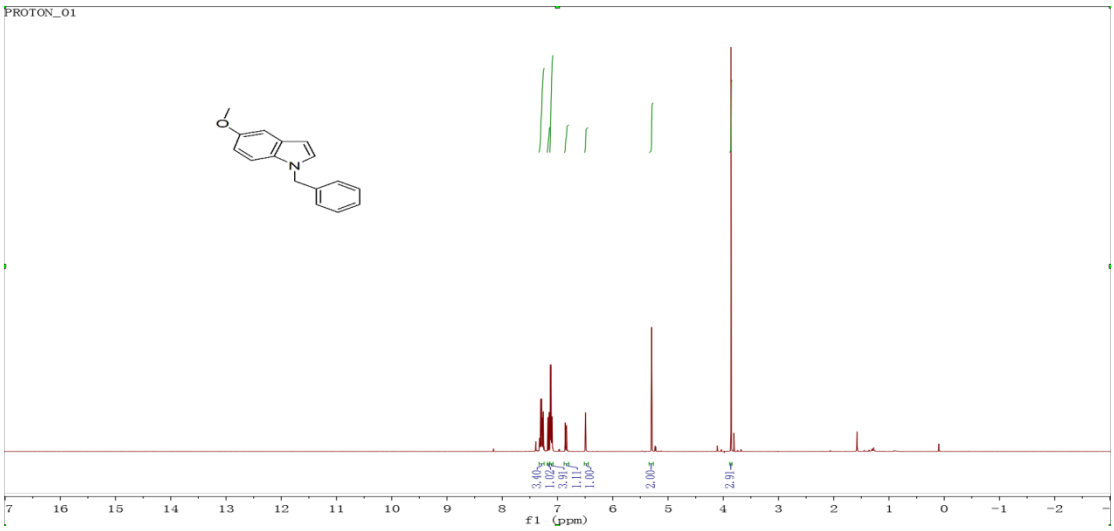

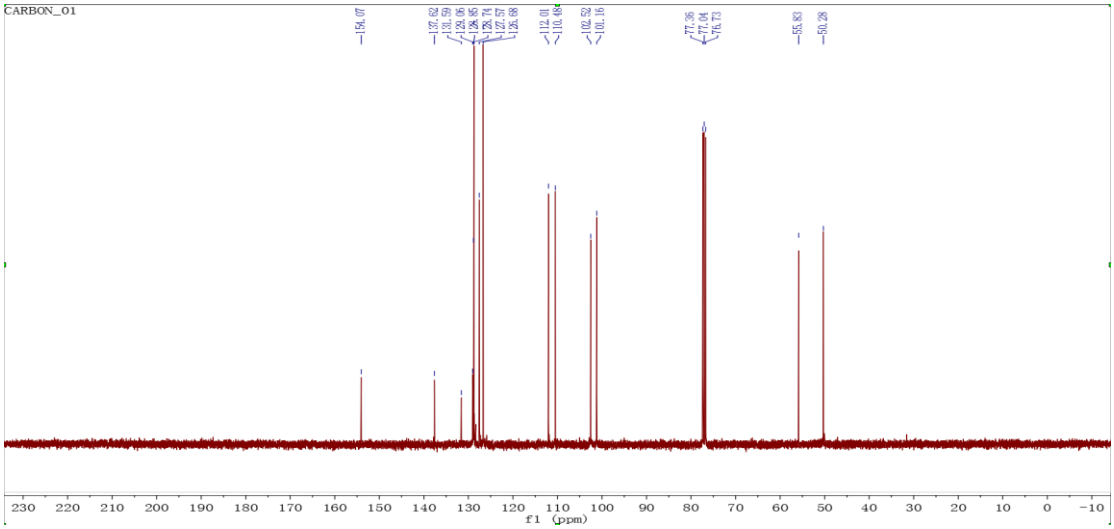

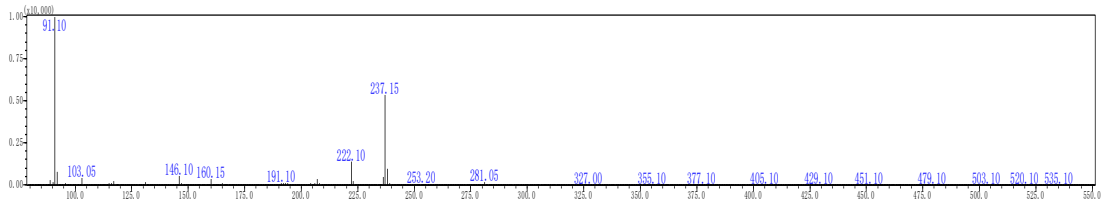

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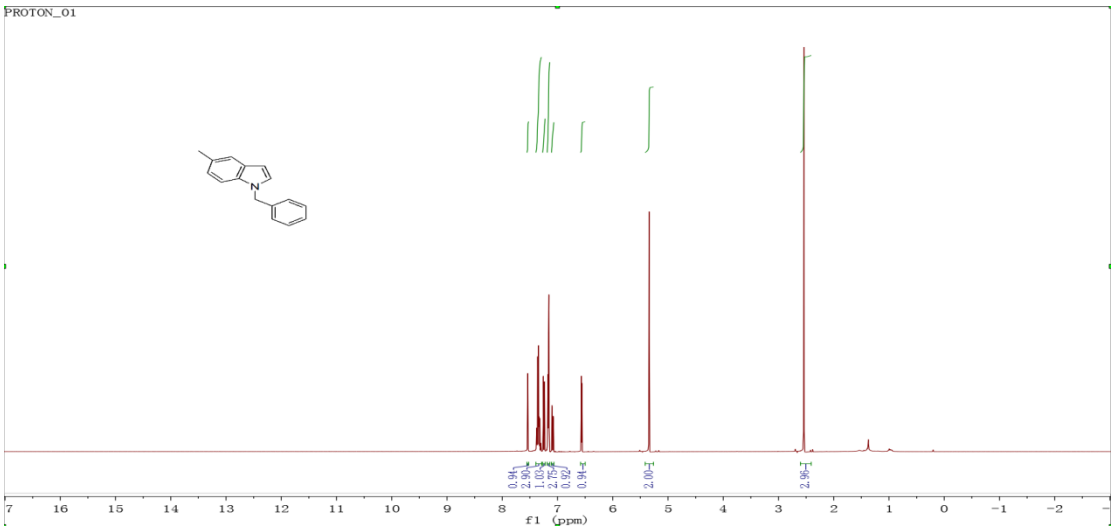

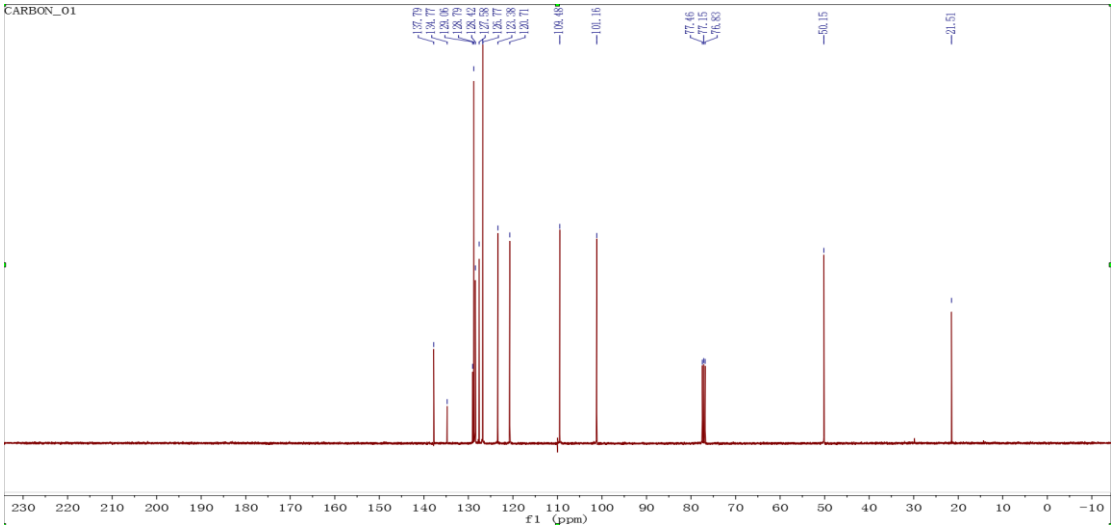

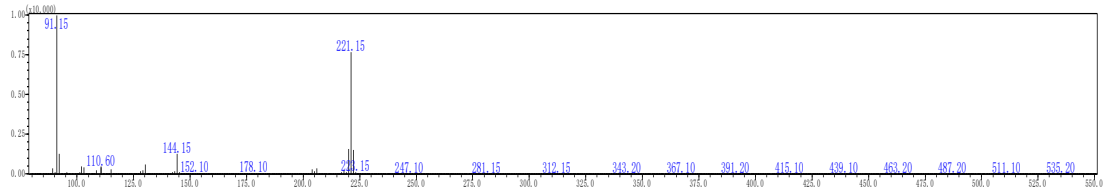

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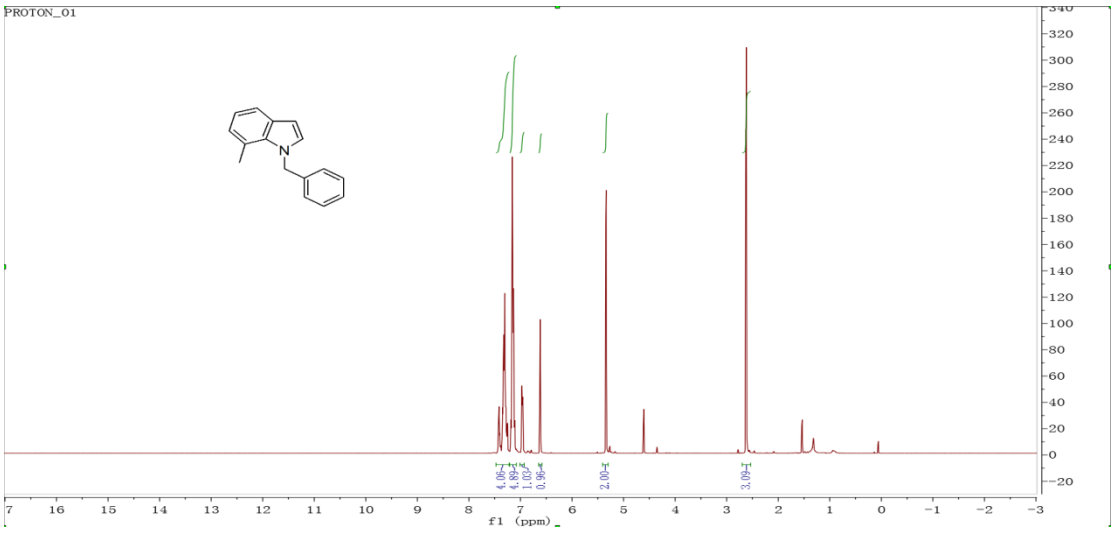

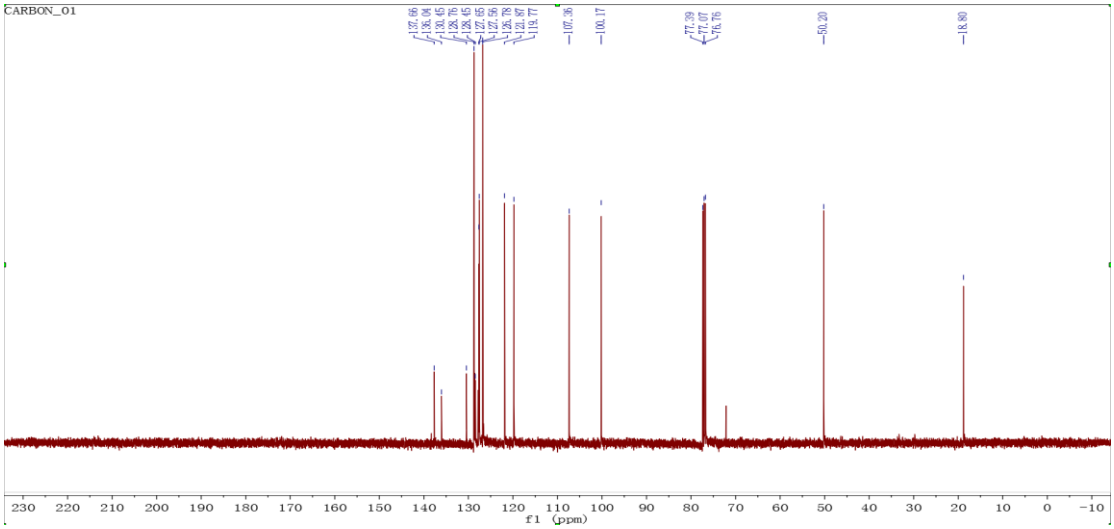

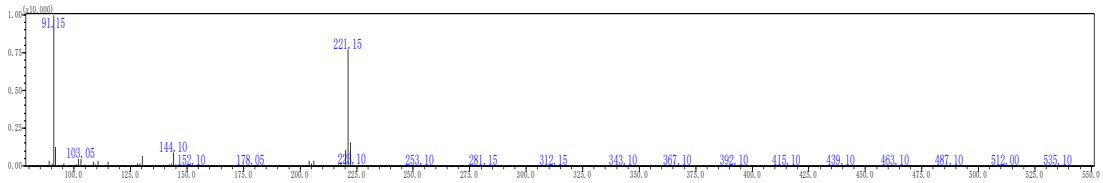

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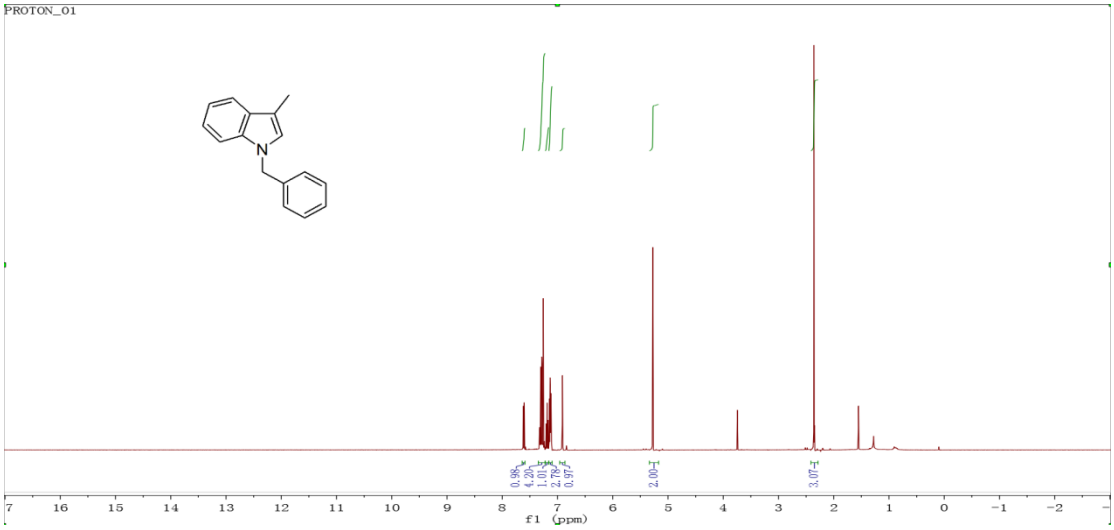

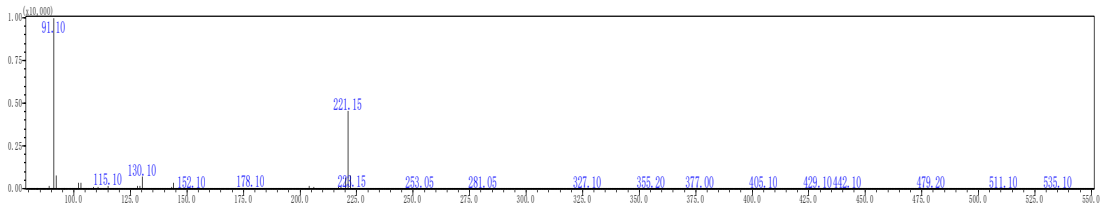

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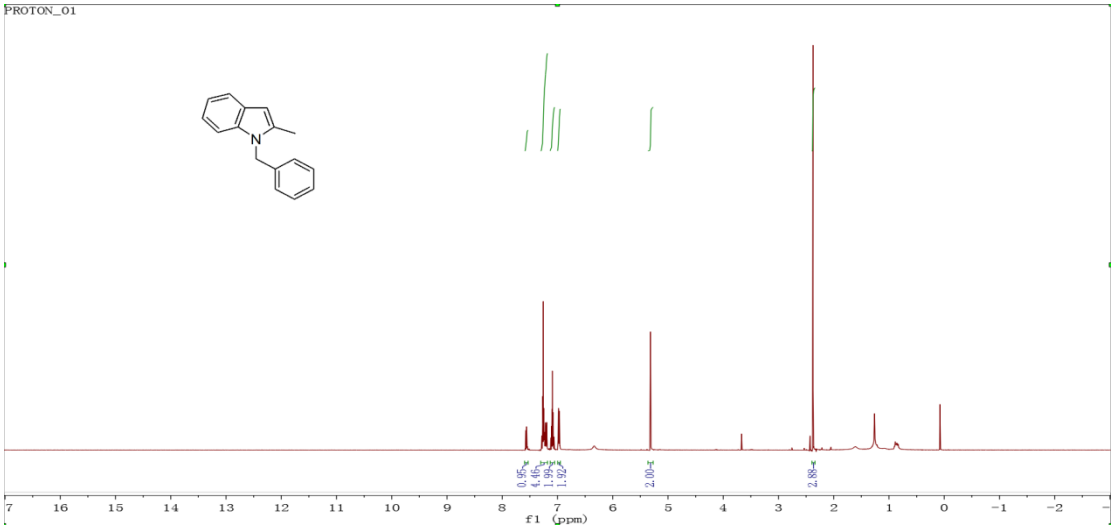

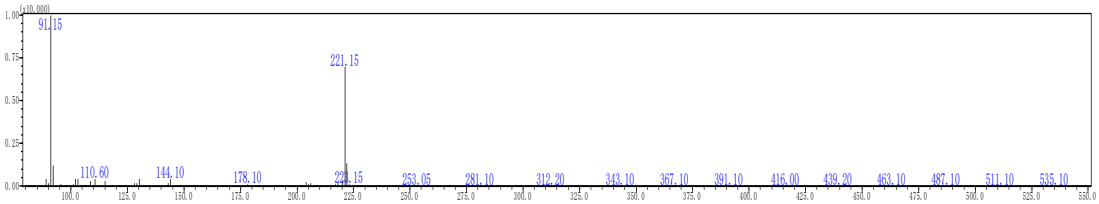

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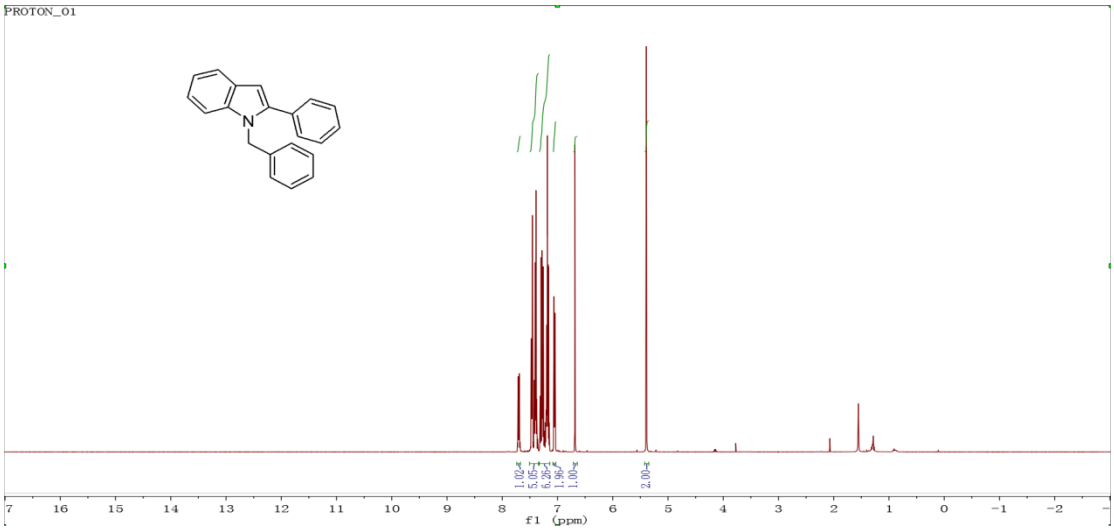

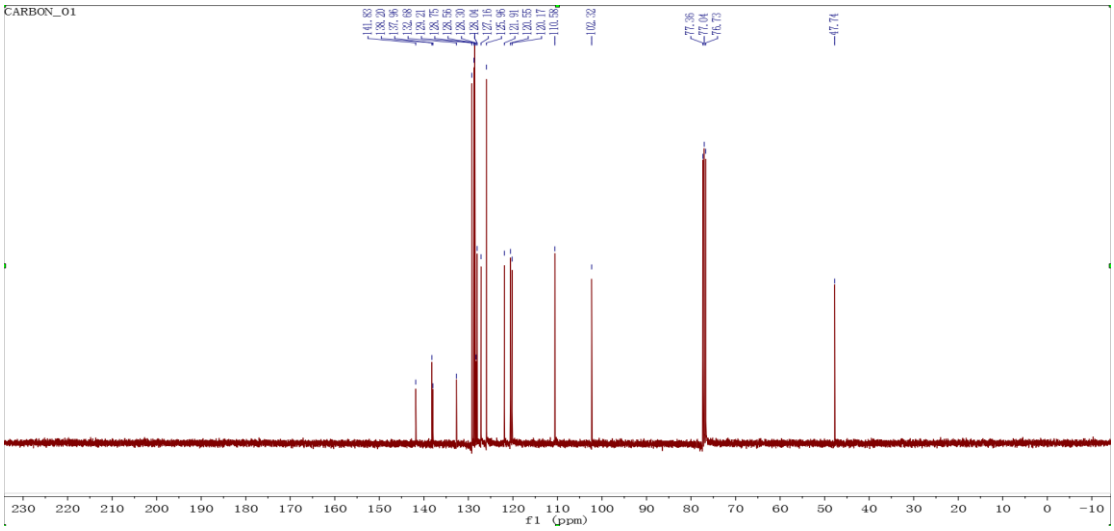

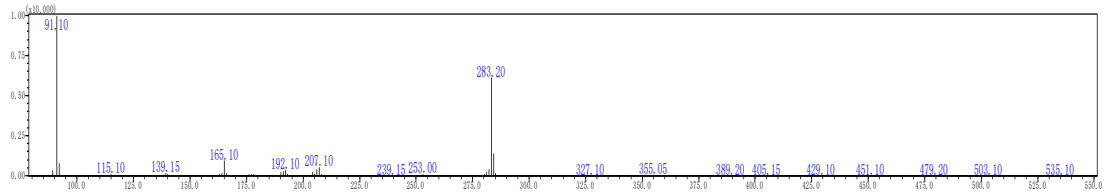

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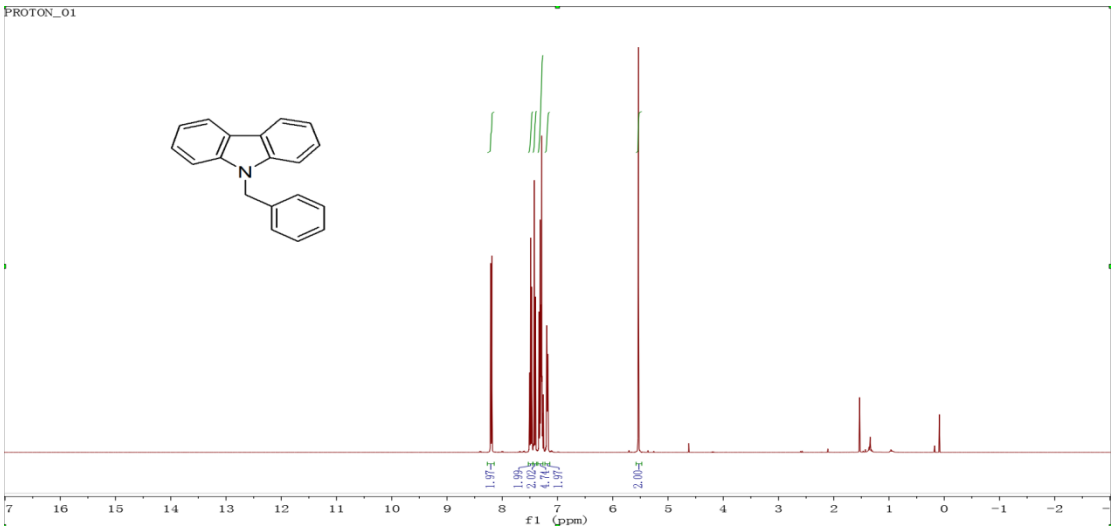

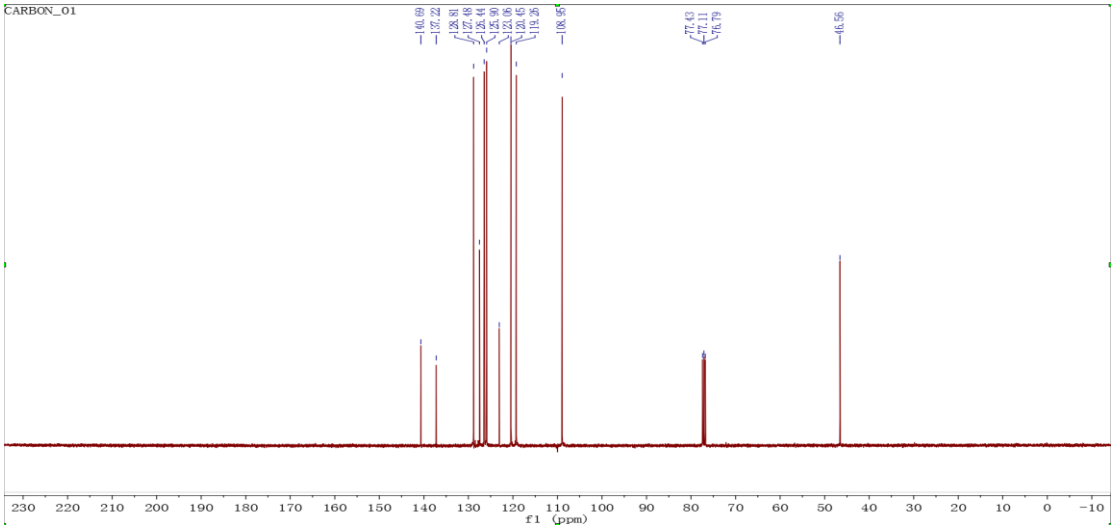

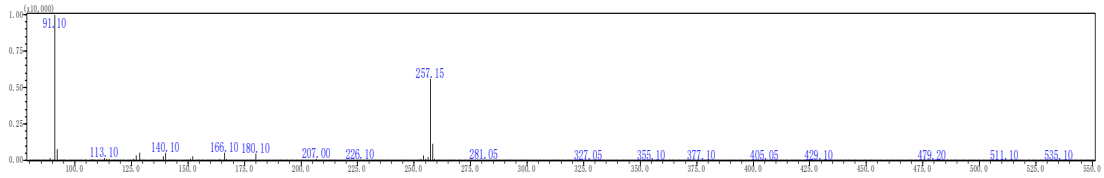

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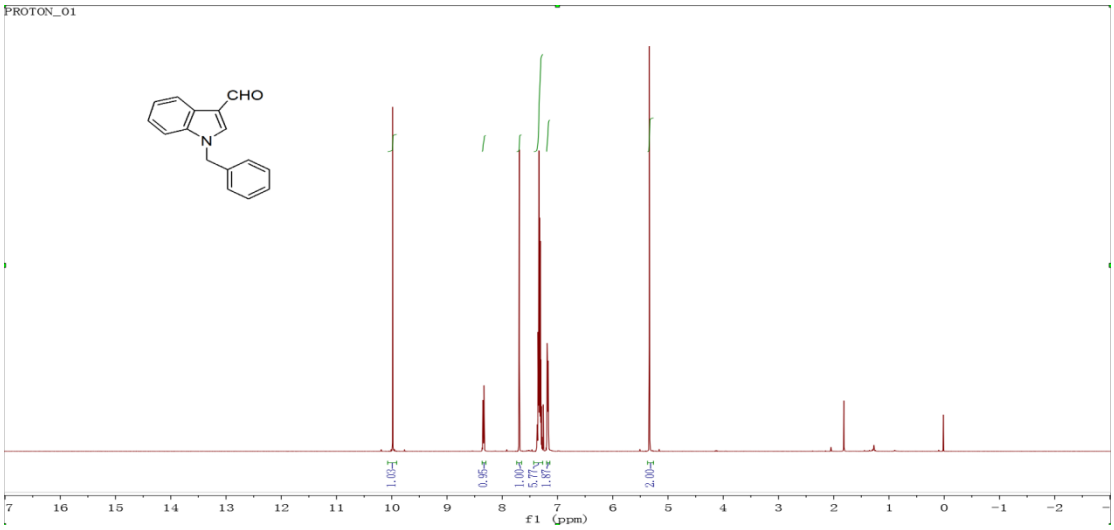

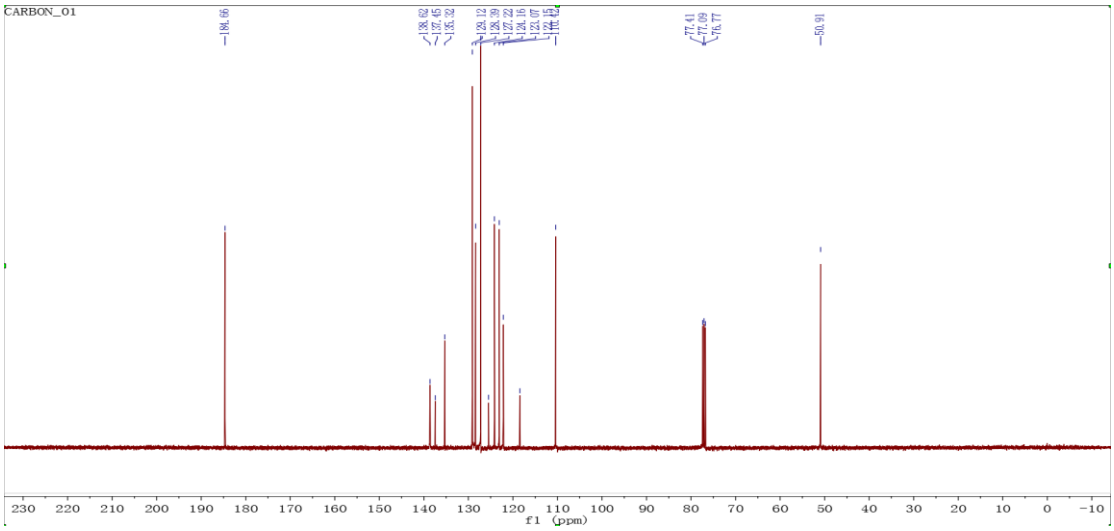

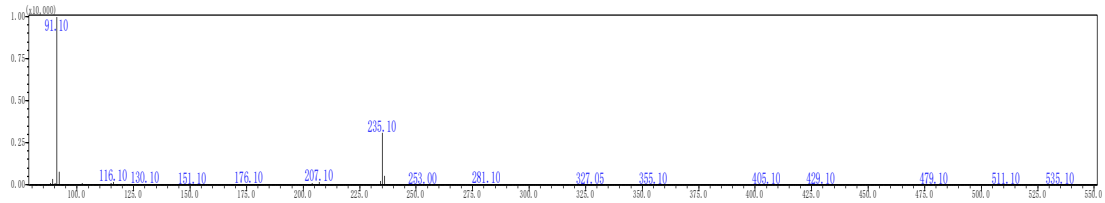

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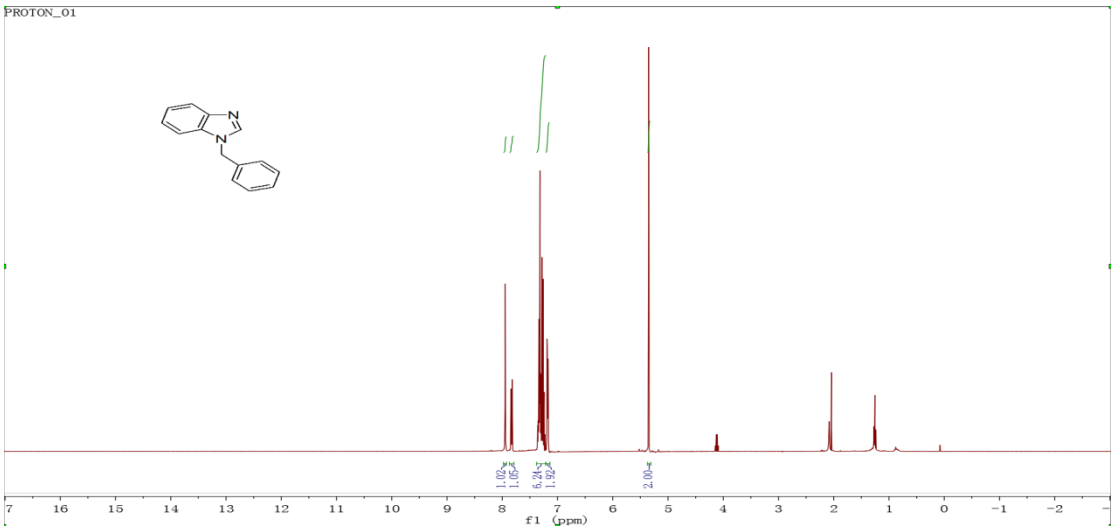

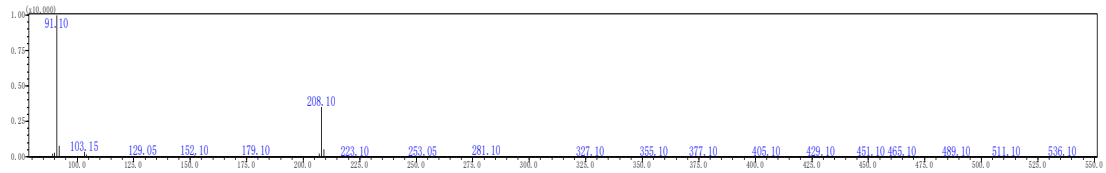

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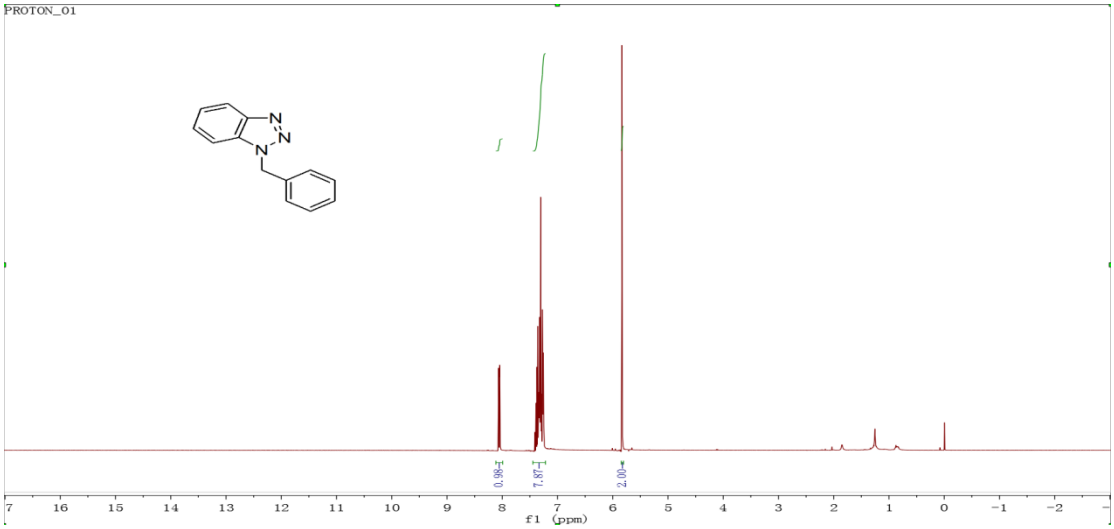

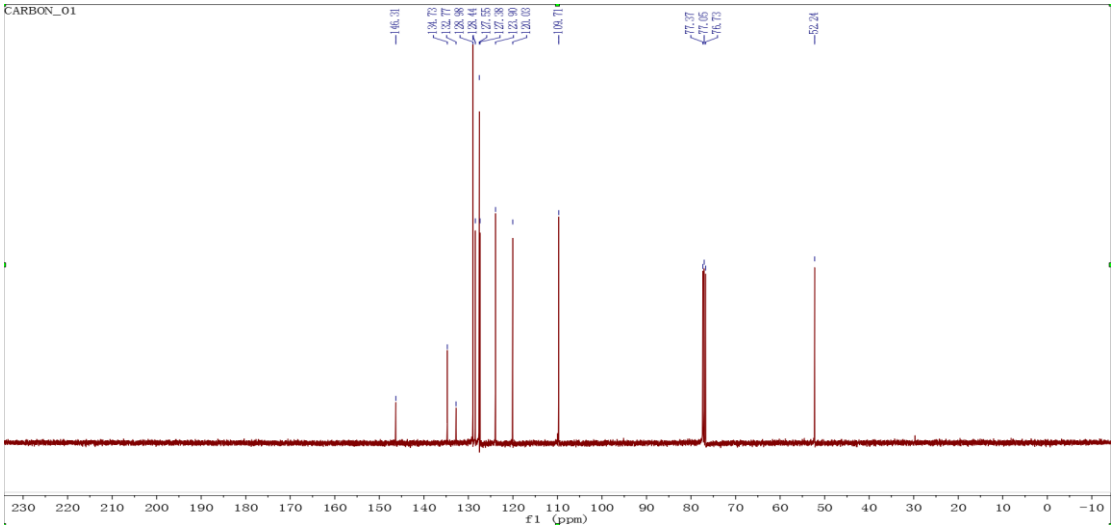

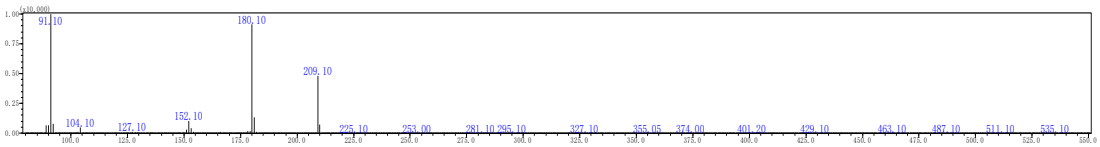

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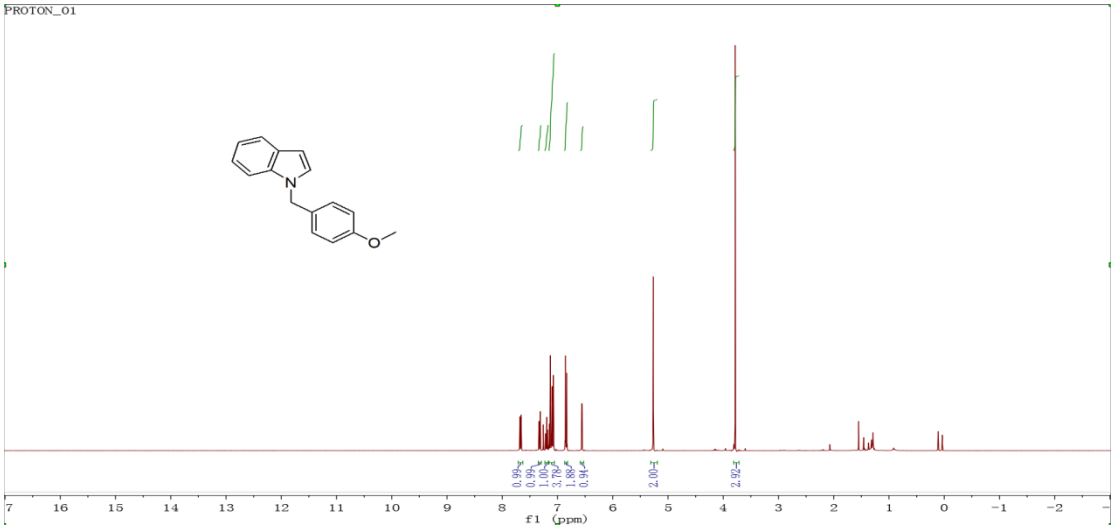

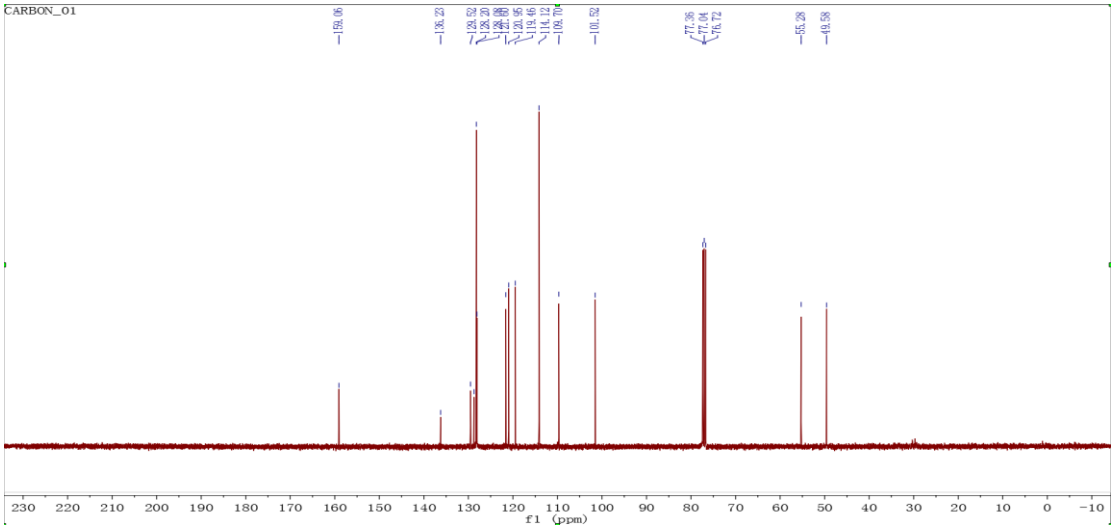

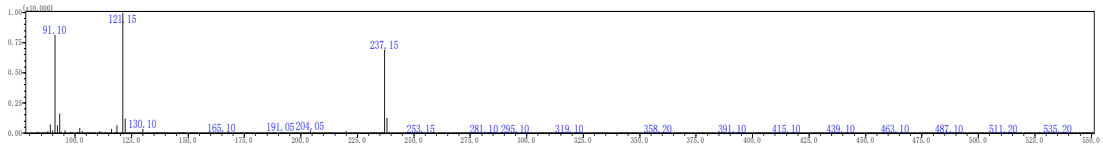

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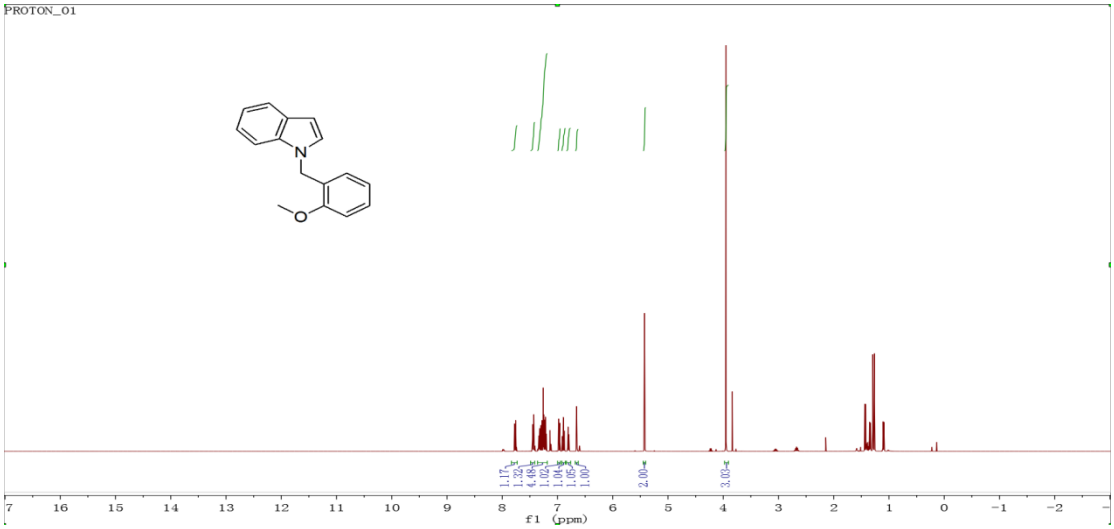
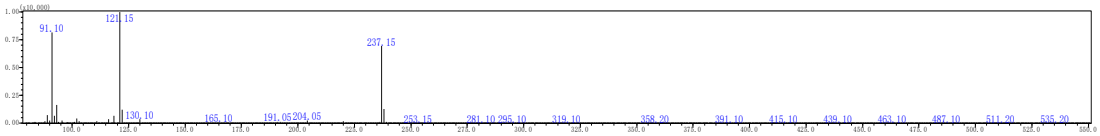
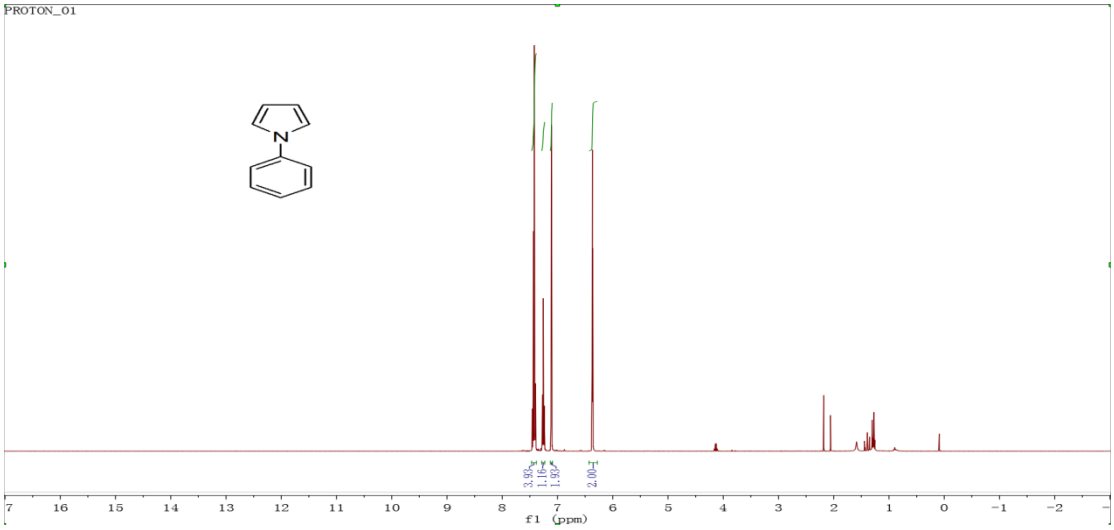
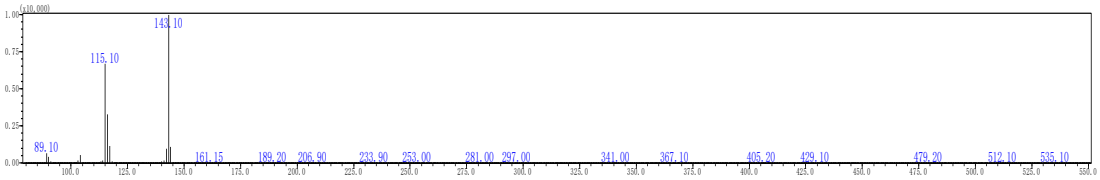




1-Phenylpyrrole (5a)





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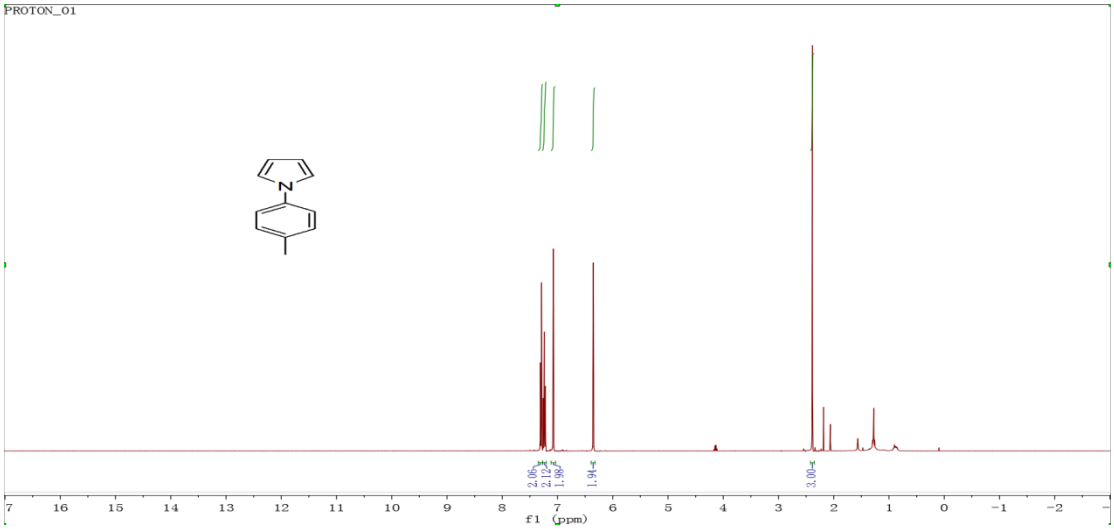

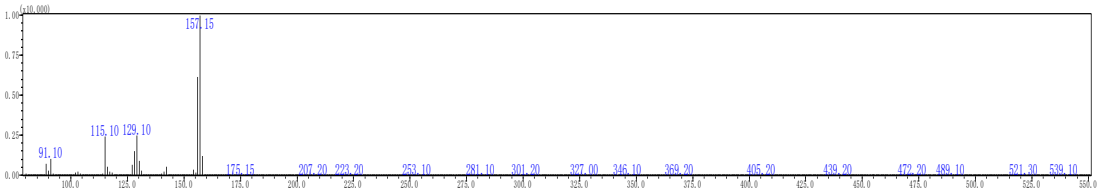

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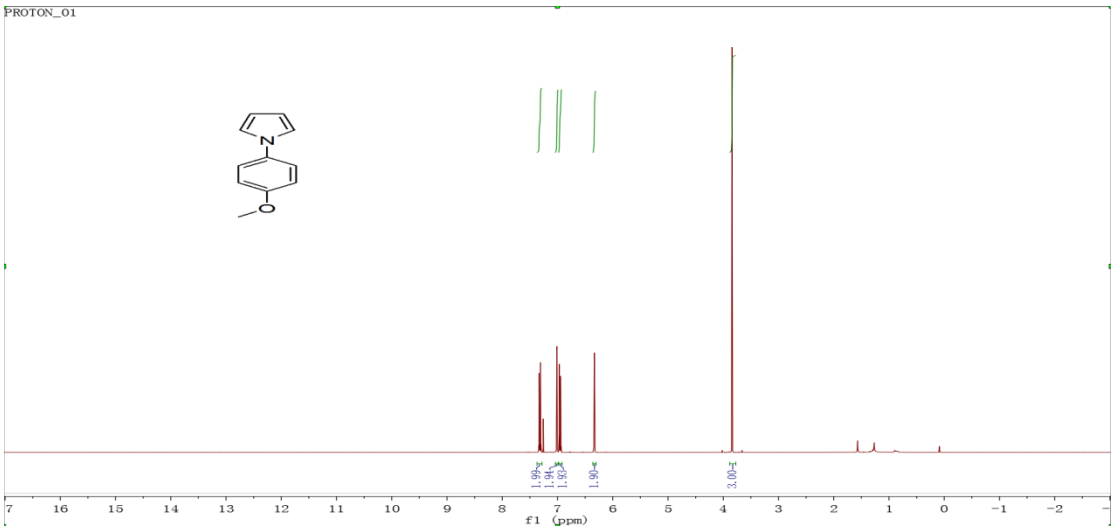
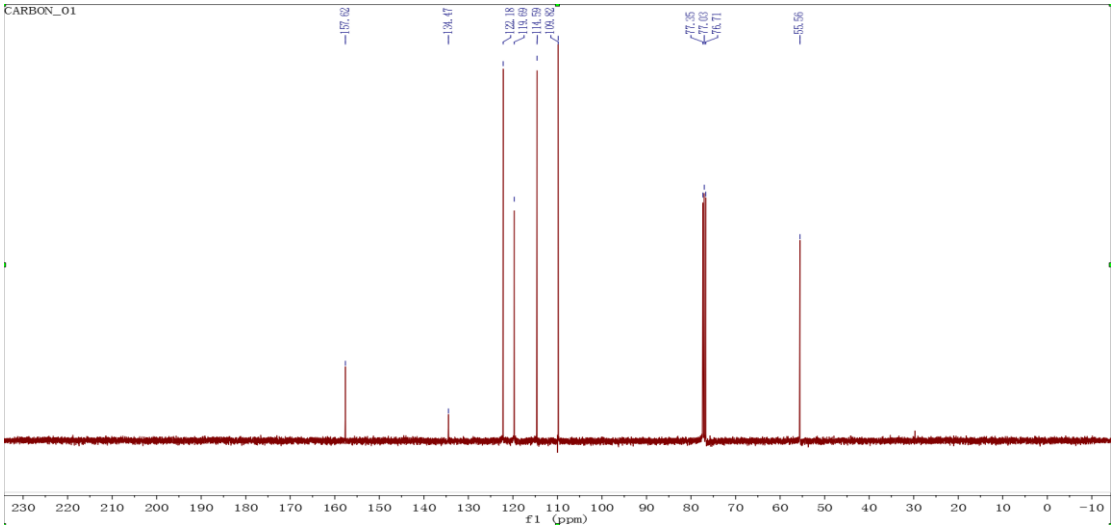
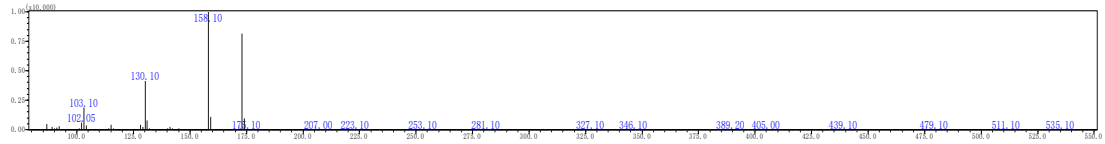
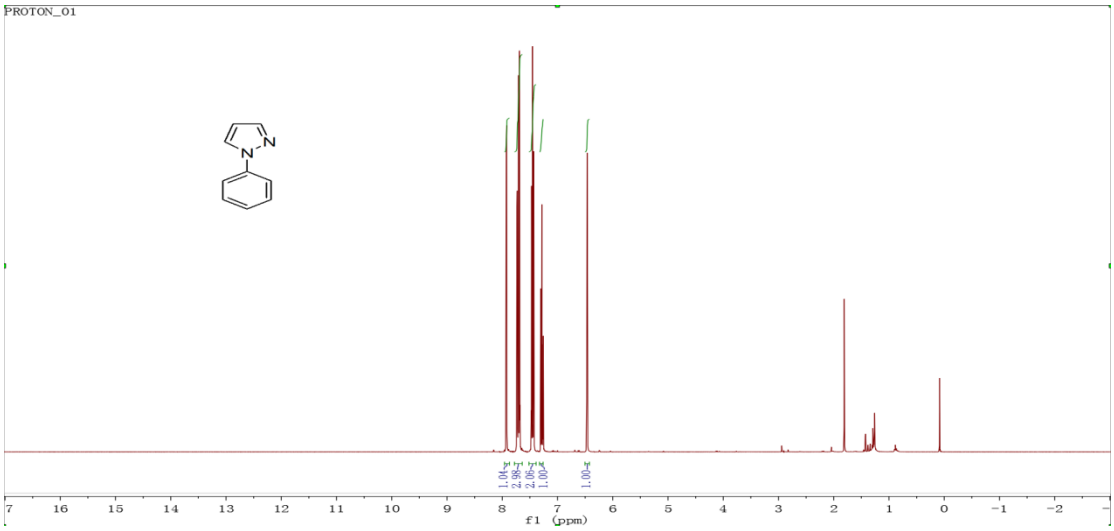
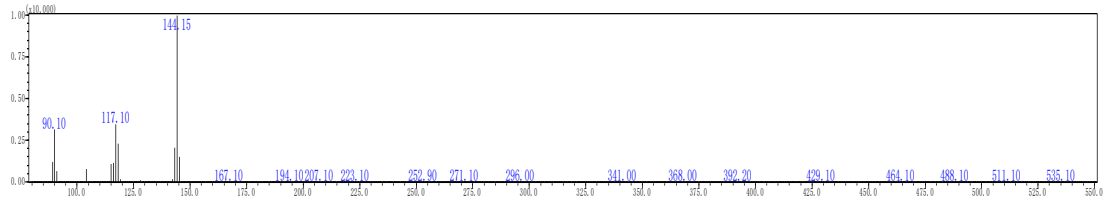






1-Phenylpyrazole (5d)





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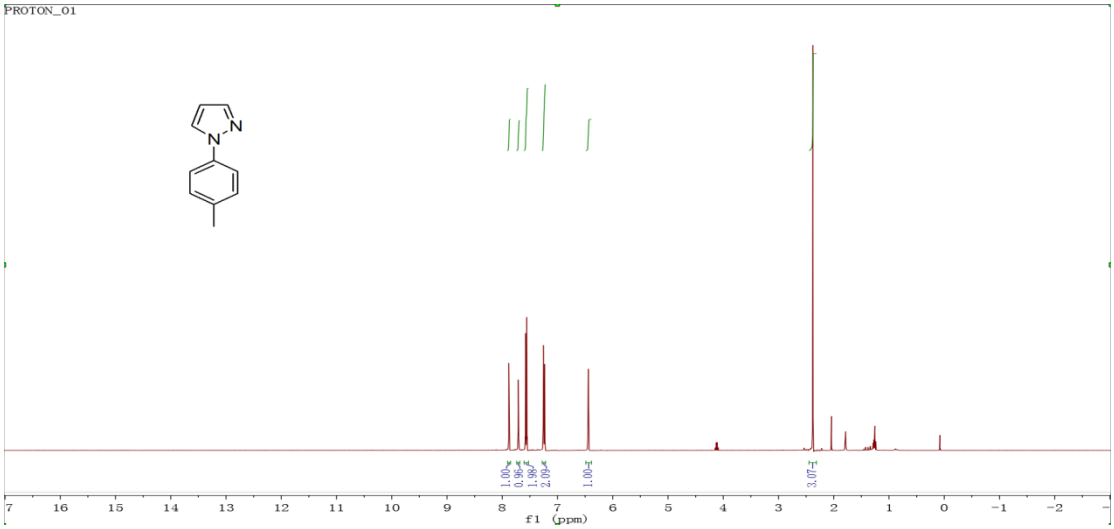
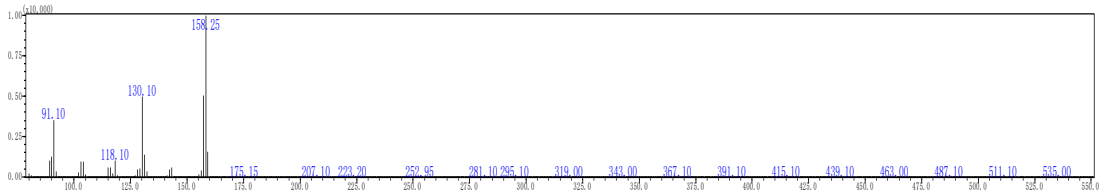
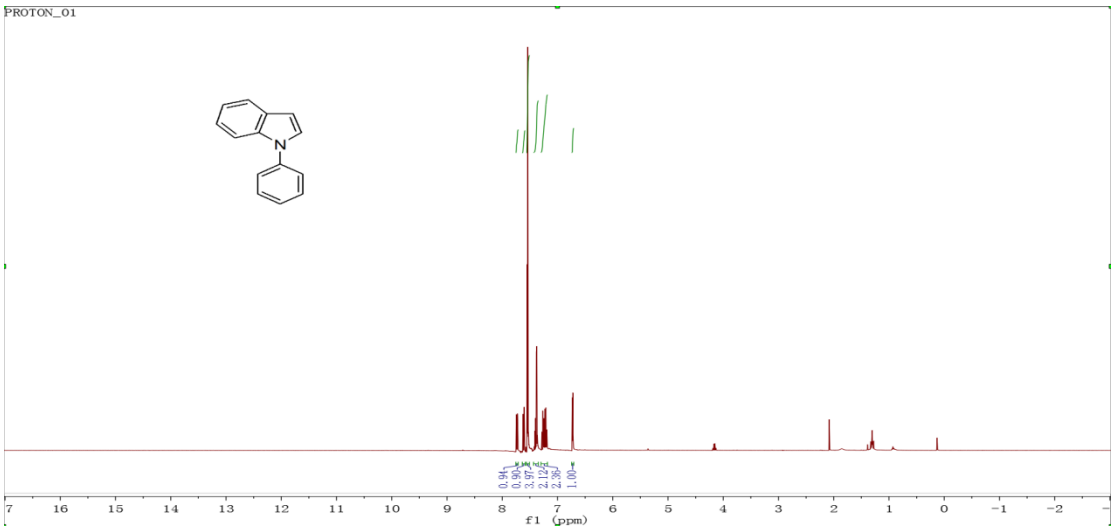
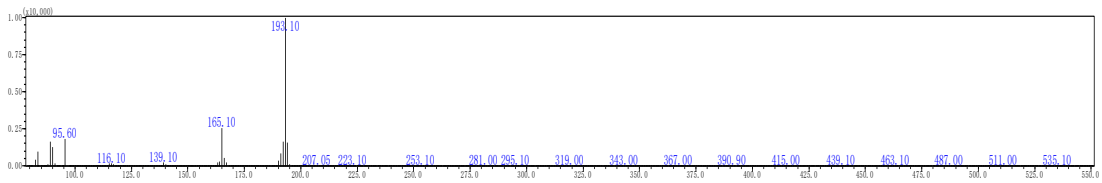


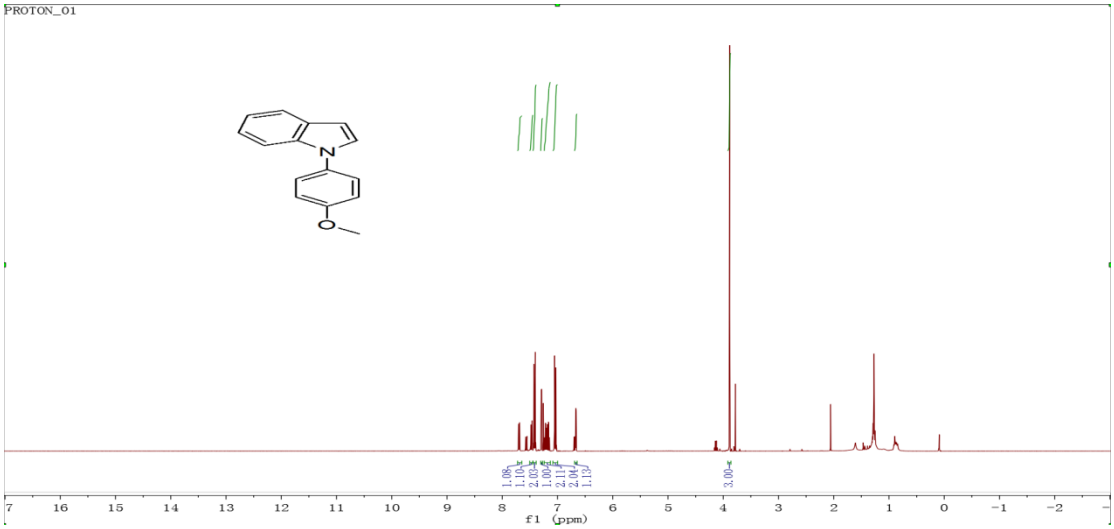


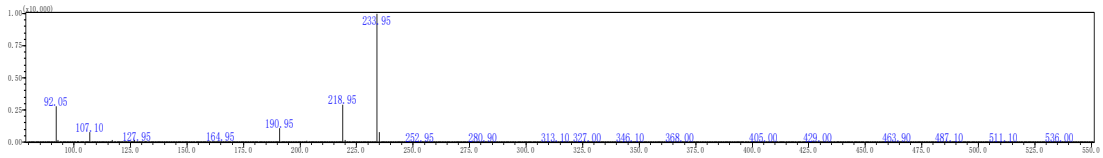
1-phenyl-1*H*-indole (5f)



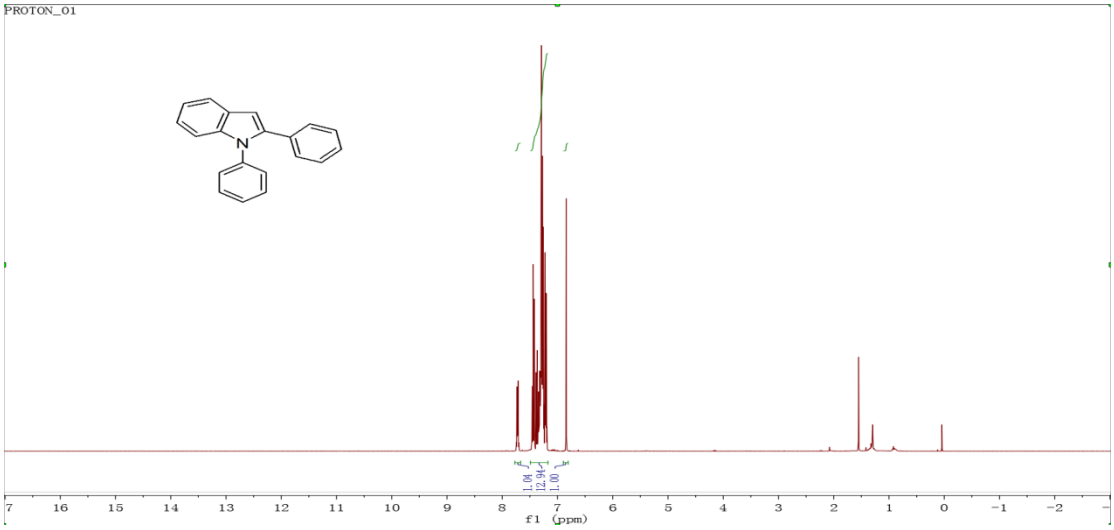


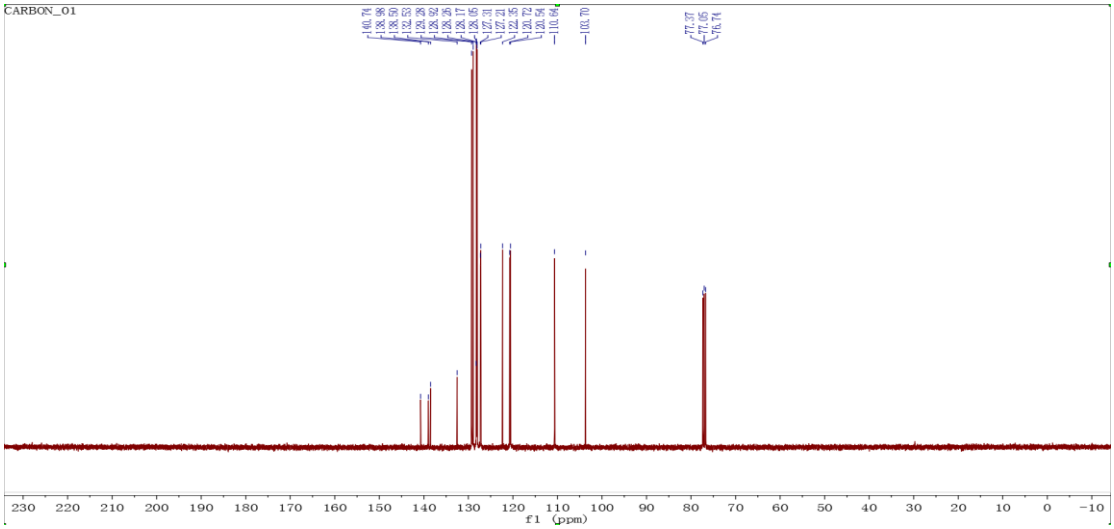
1-(4-methoxyphenyl)indole (5g)

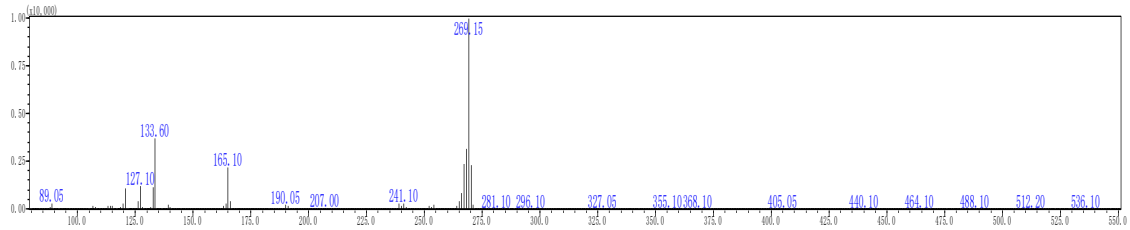




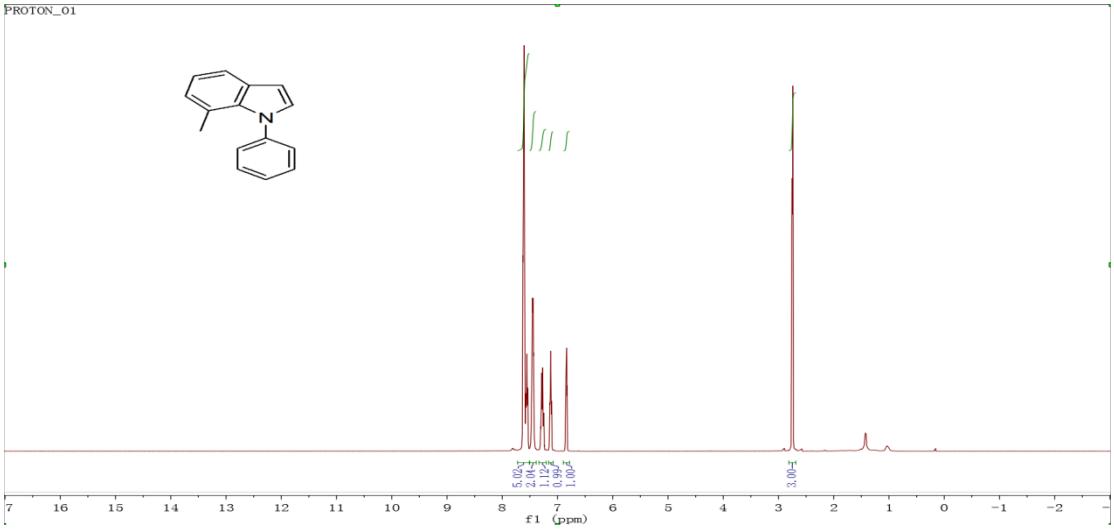
1,2-diphenyl-1*H*-indole (5h)

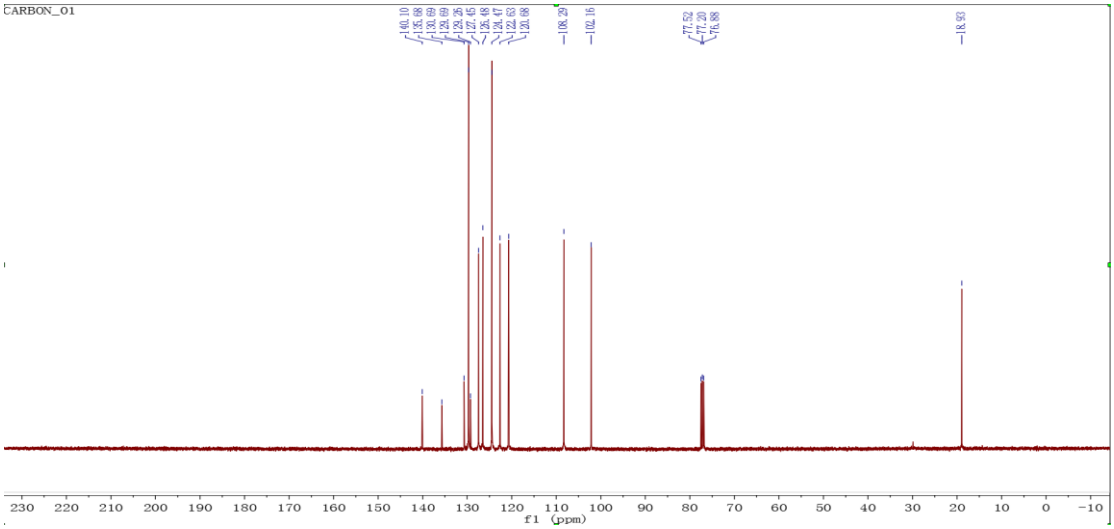


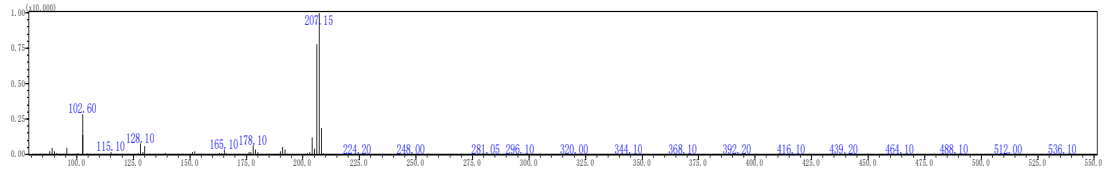




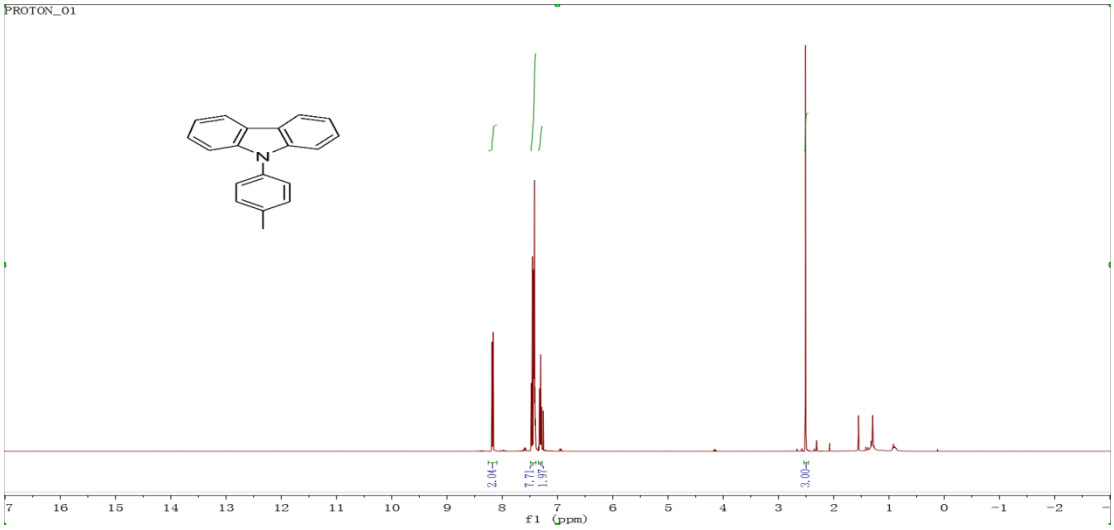
7-methyl-1-phenyl-1*H*-indole (5i)

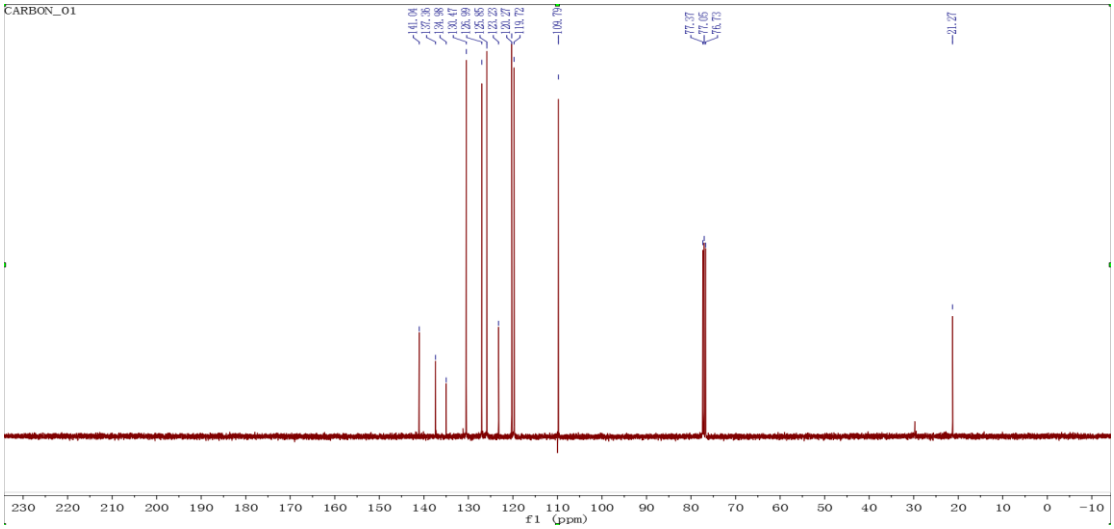


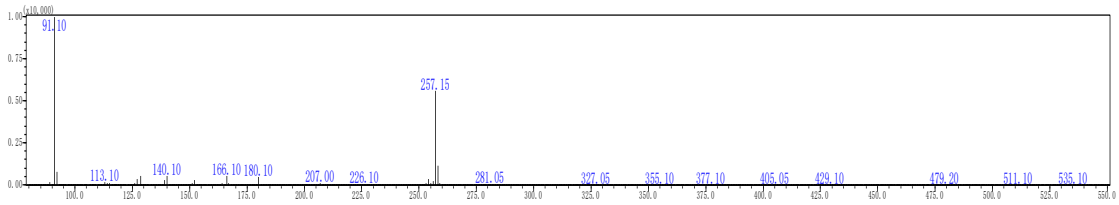




9-(4-methylphenyl)-9*H*-carbazole (5j)




CARBON_01
141.04
137.36
134.98
130.47
128.59
125.85
122.23
120.27
118.72
109.79
77.37
77.05
76.73
21.27
f1 (ppm)


(x10,000)
91.10
257.15
113.10
140.10
166.10
180.10
207.00
226.10
281.05
327.05
355.10
377.10
405.05
429.10
479.20
511.10
535.10