

Supporting Information

Convenient Synthesis of α,β -Unsaturated γ -Butyrolactones and γ -Butyrolactams via Decarboxylative Iodination of Paraconic Acids and β -Carboxyl- γ -Butyrolactams Using 1,3-Diiodo-5,5-dimethylhydantoin

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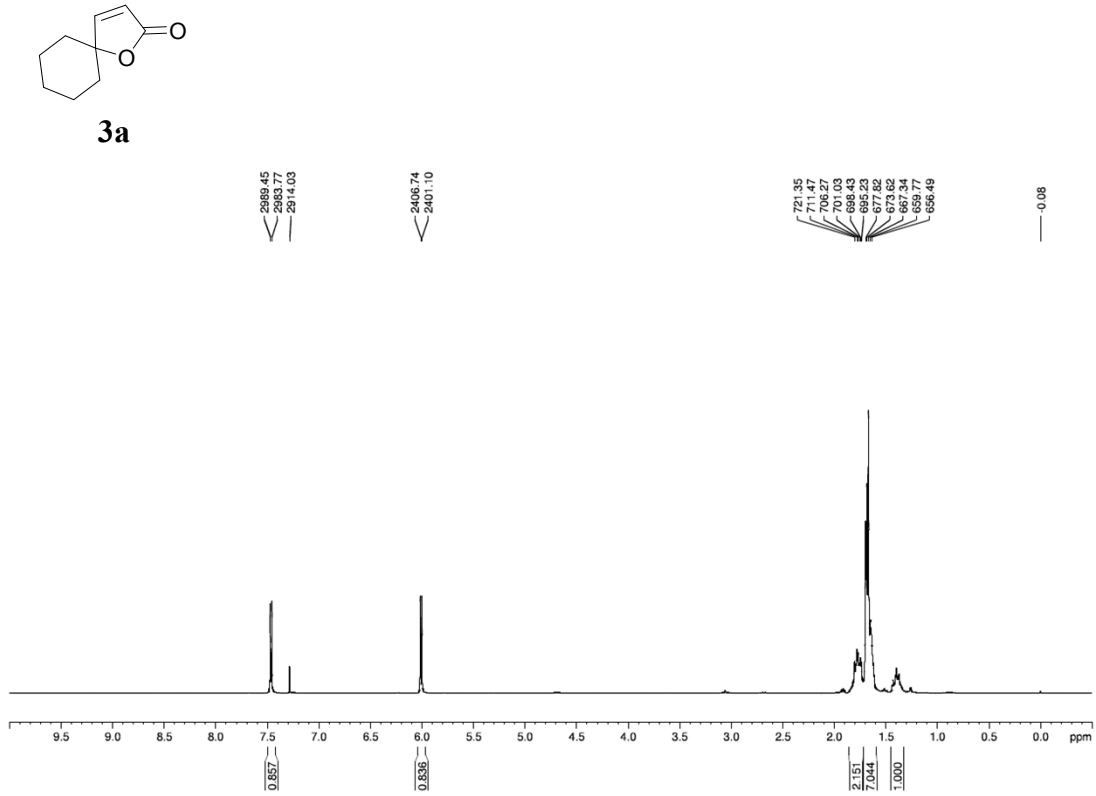
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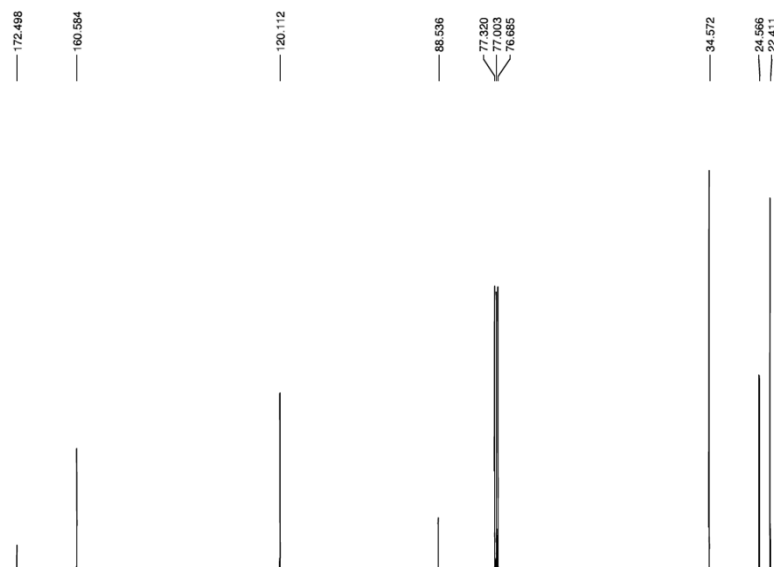
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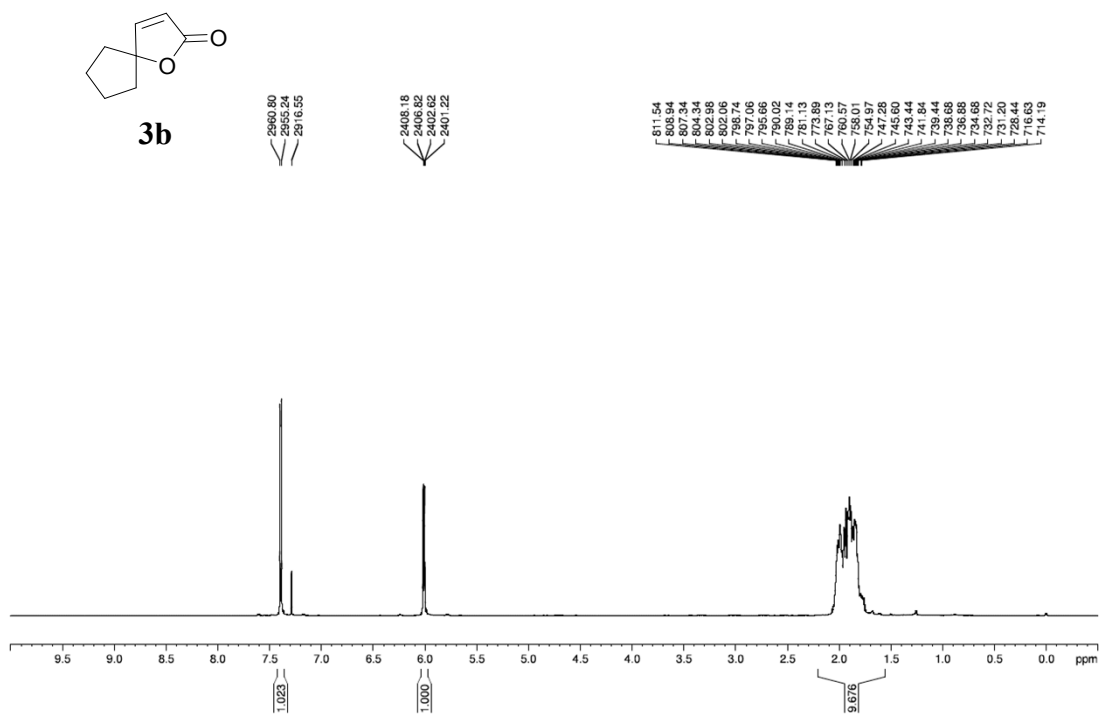
^1H NMR spectrum of **3a** (400 MHz, CDCl_3)



^{13}C NMR spectrum of **3a** (100 MHz, CDCl_3)



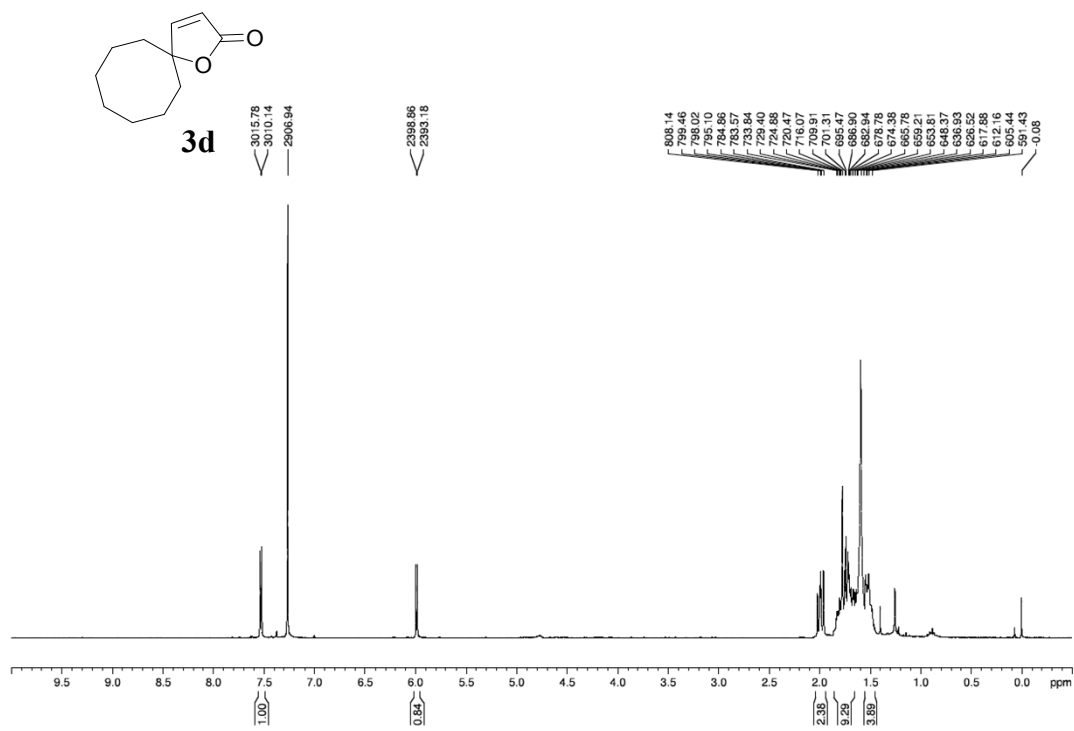
¹H NMR spectrum of **3b** (400 MHz, CDCl₃)



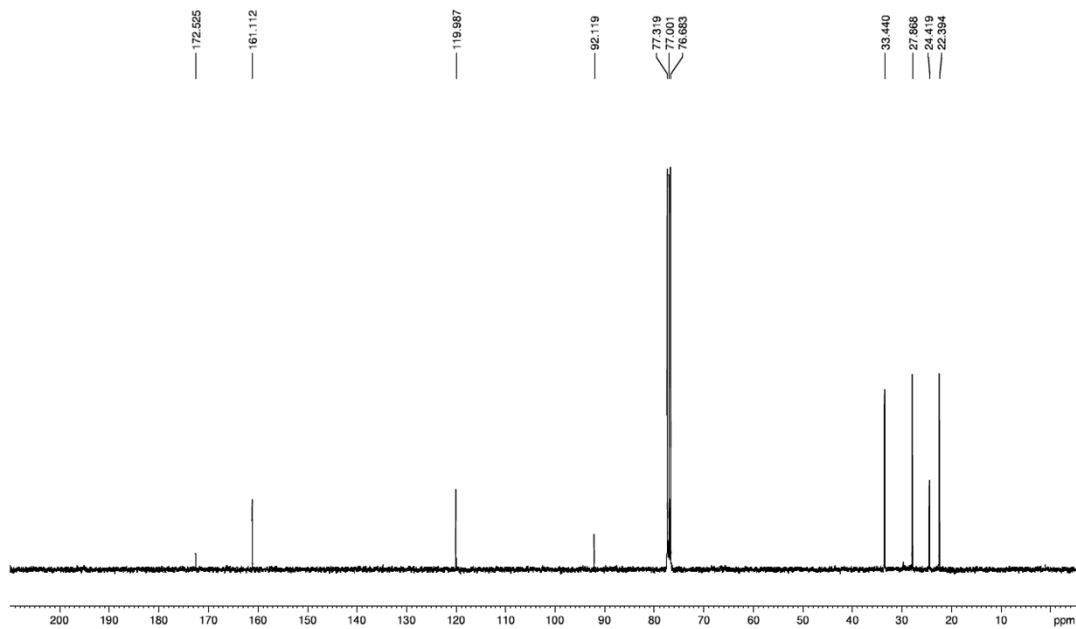
¹³C NMR spectrum of **3b** (100 MHz, CDCl₃)



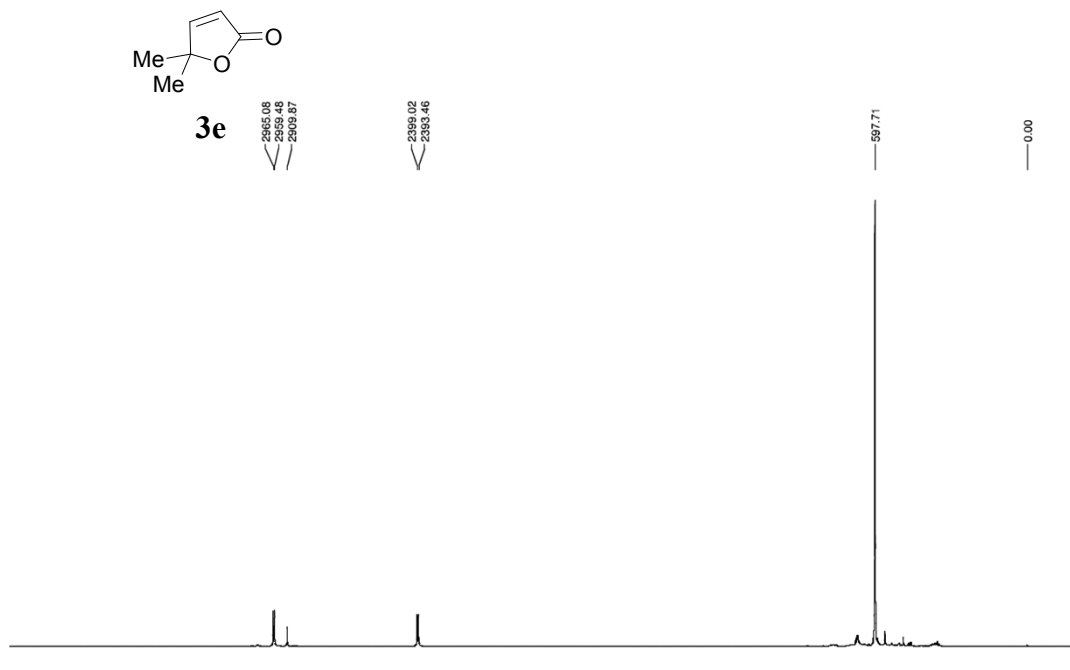
^1H NMR spectrum of **3d** (400 MHz, CDCl_3)



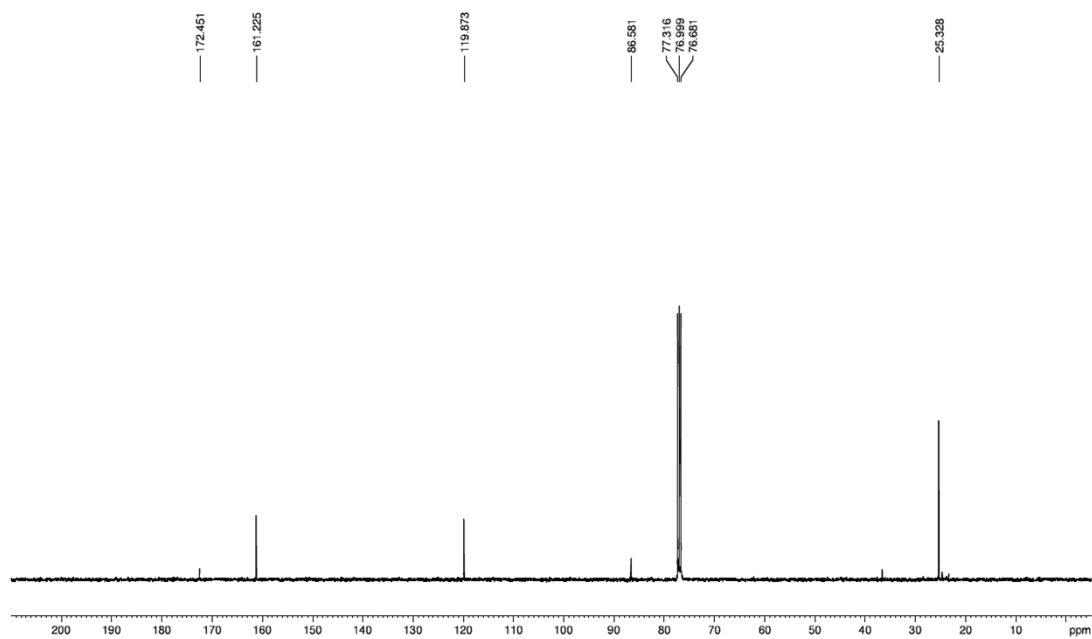
^{13}C NMR spectrum of **3d** (100 MHz, CDCl_3)



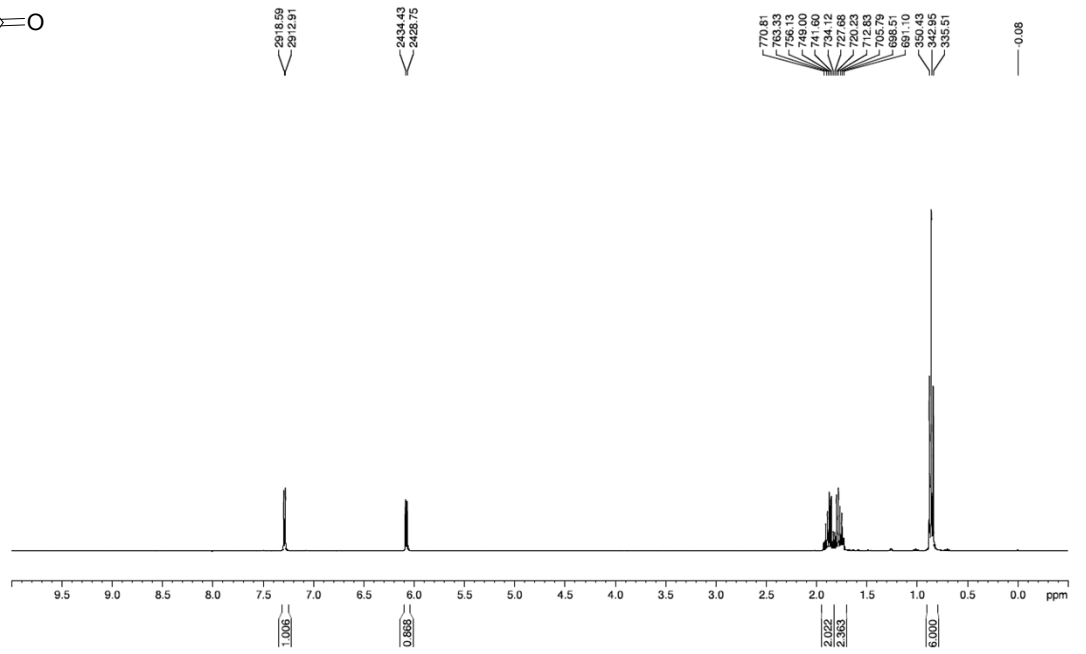
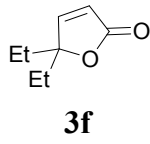
¹H NMR spectrum of 3e (400 MHz, CDCl₃)



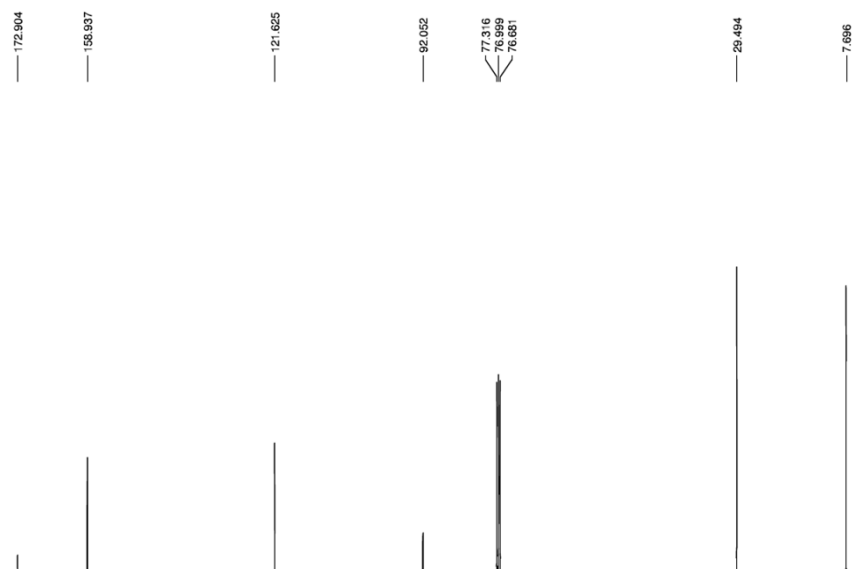
^{13}C NMR spectrum of **3e** (100 MHz, CDCl_3)



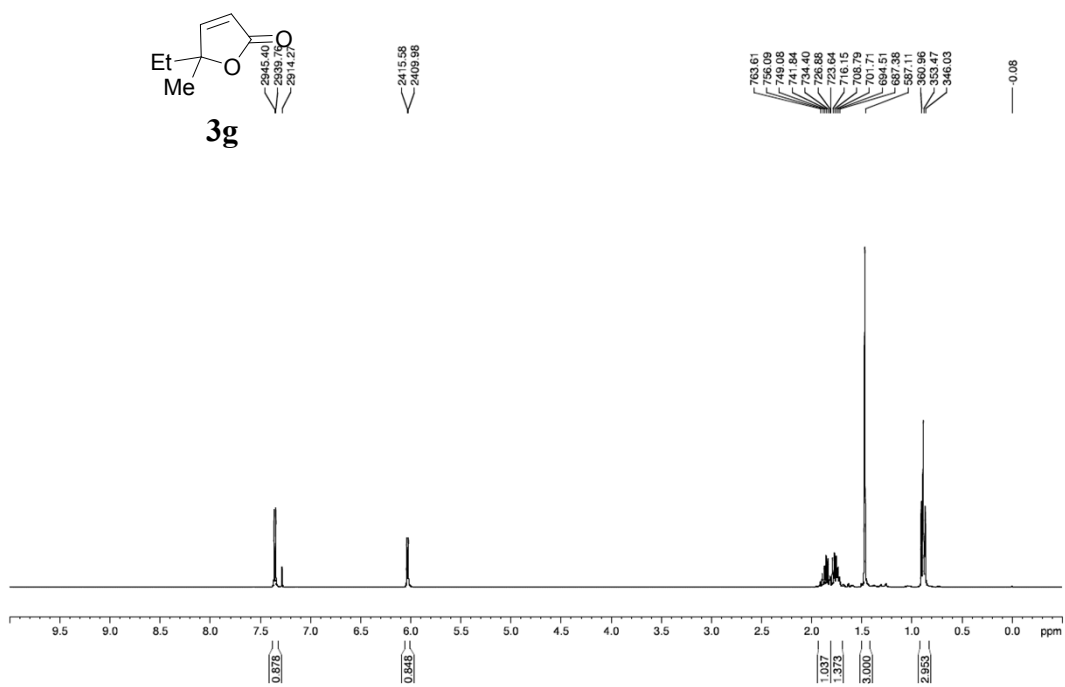
^1H NMR spectrum of **3f** (400 MHz, CDCl_3)



¹³C NMR spectrum of **3f** (100 MHz, CDCl₃)



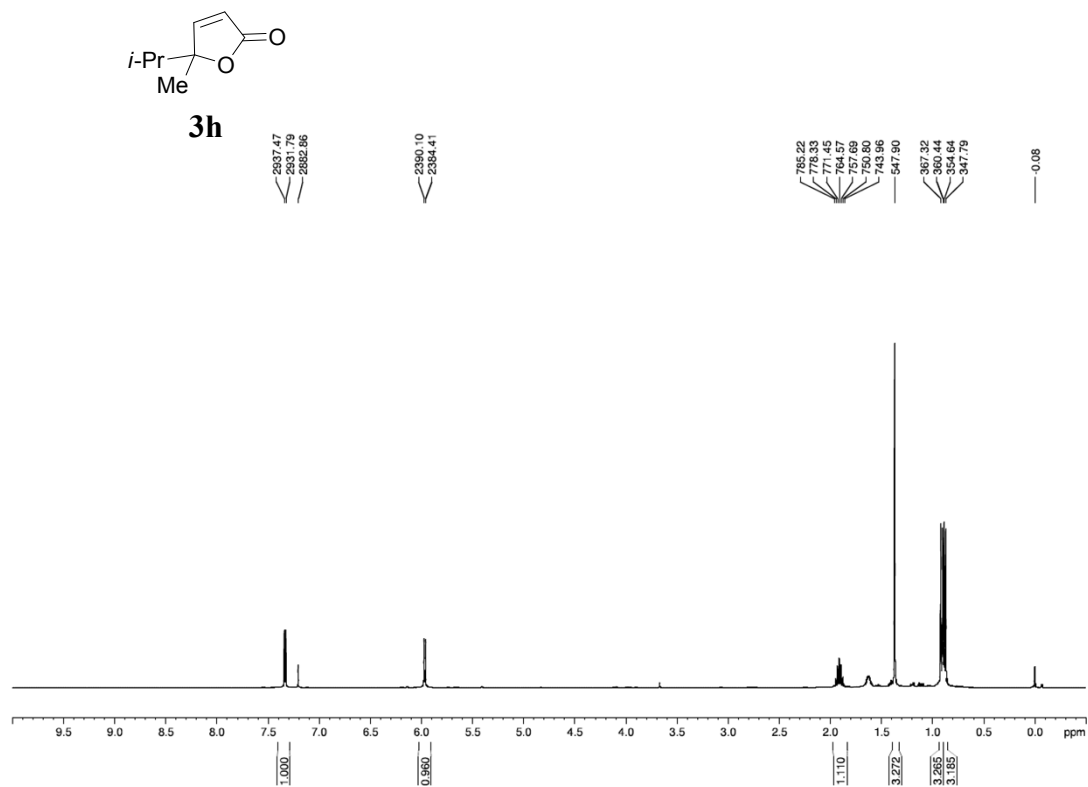
¹H NMR spectrum of **3g** (400 MHz, CDCl₃)



¹³C NMR spectrum of **3g** (100 MHz, CDCl₃)



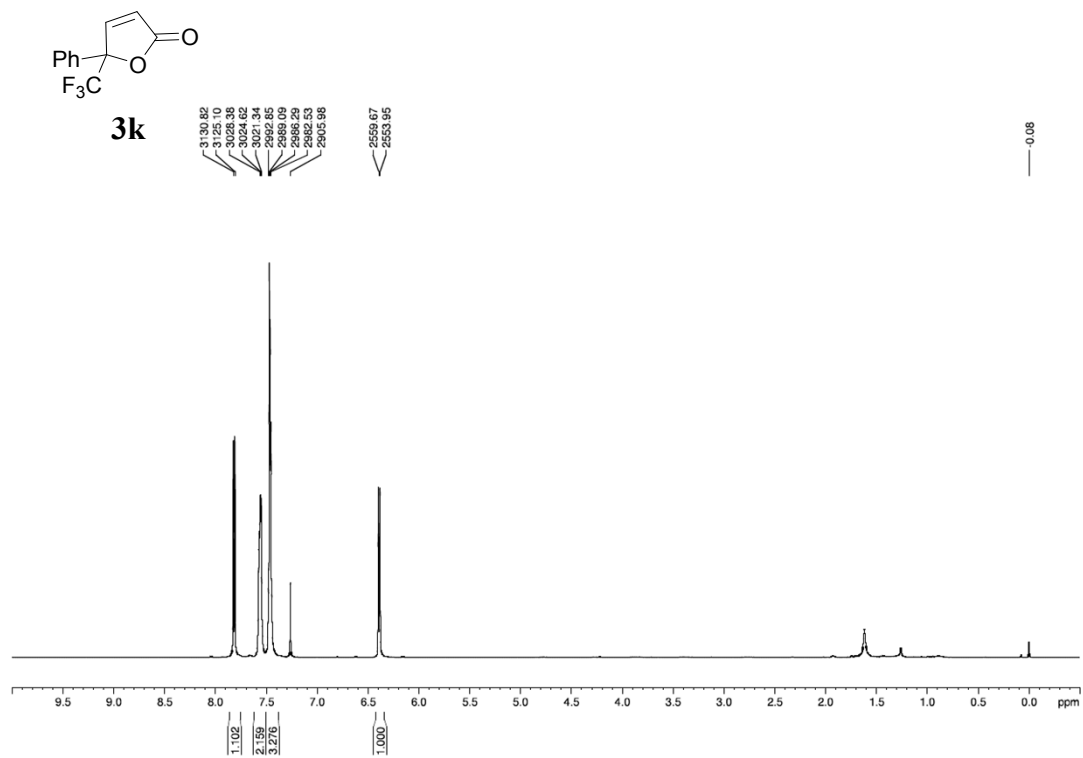
¹H NMR spectrum of **3h** (400 MHz, CDCl₃)



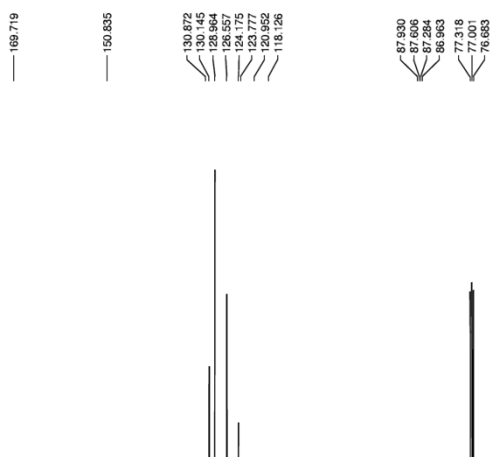
¹³C NMR spectrum of **3h** (100 MHz, CDCl₃)



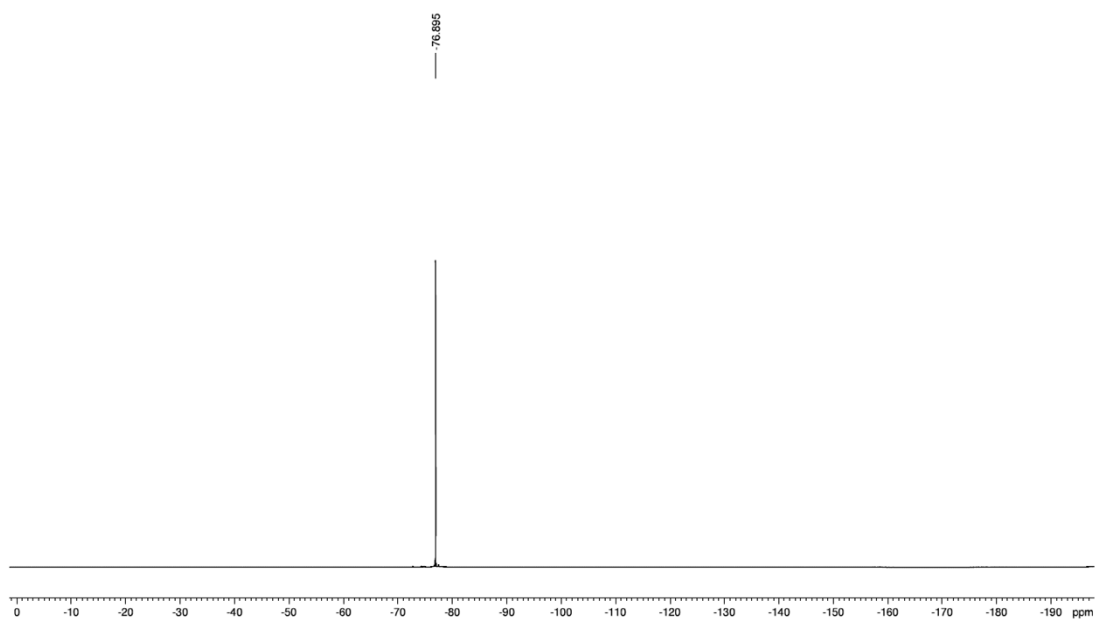
^1H NMR spectrum of **3k** (400 MHz, CDCl_3)



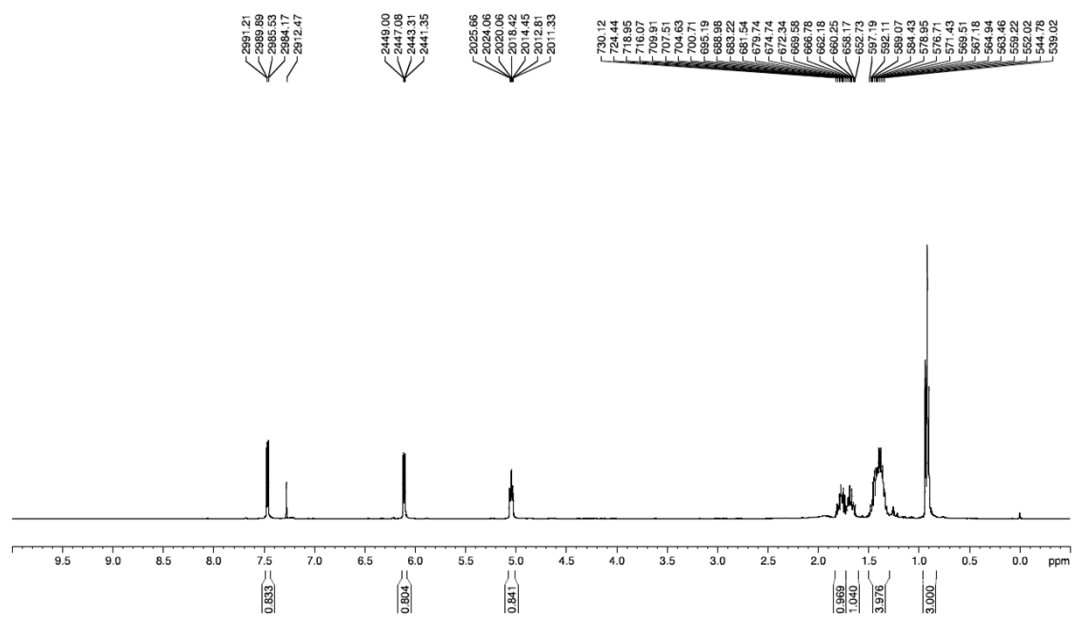
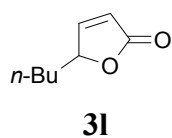
^{13}C NMR spectrum of **3k** (100 MHz, CDCl_3)



^{19}F NMR spectrum of **3k** (376 MHz, CDCl_3)

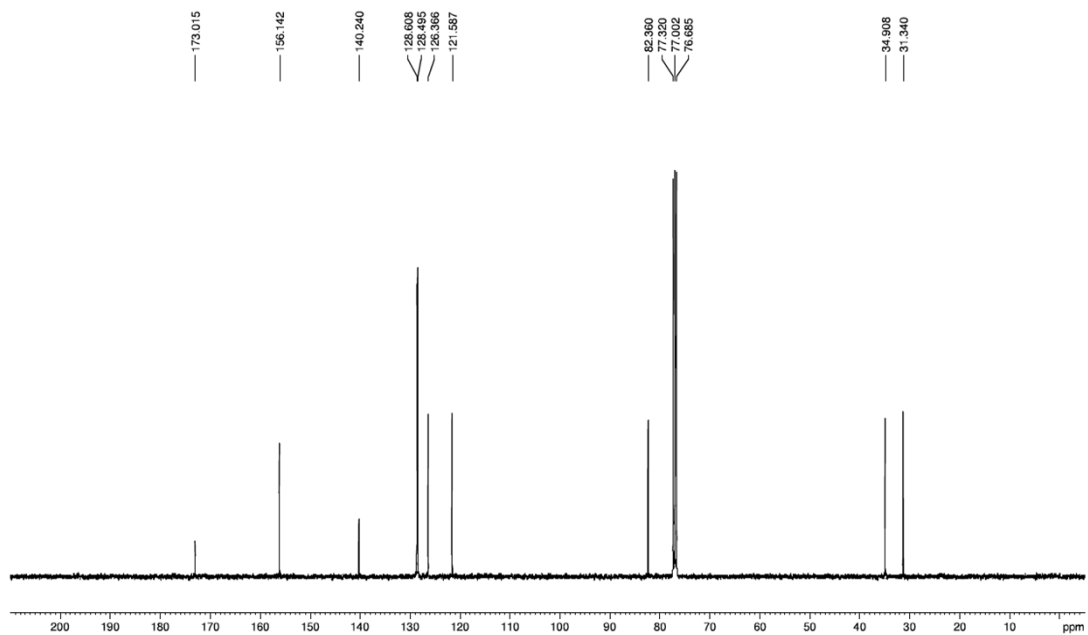


¹H NMR spectrum of **3I** (400 MHz, CDCl₃)

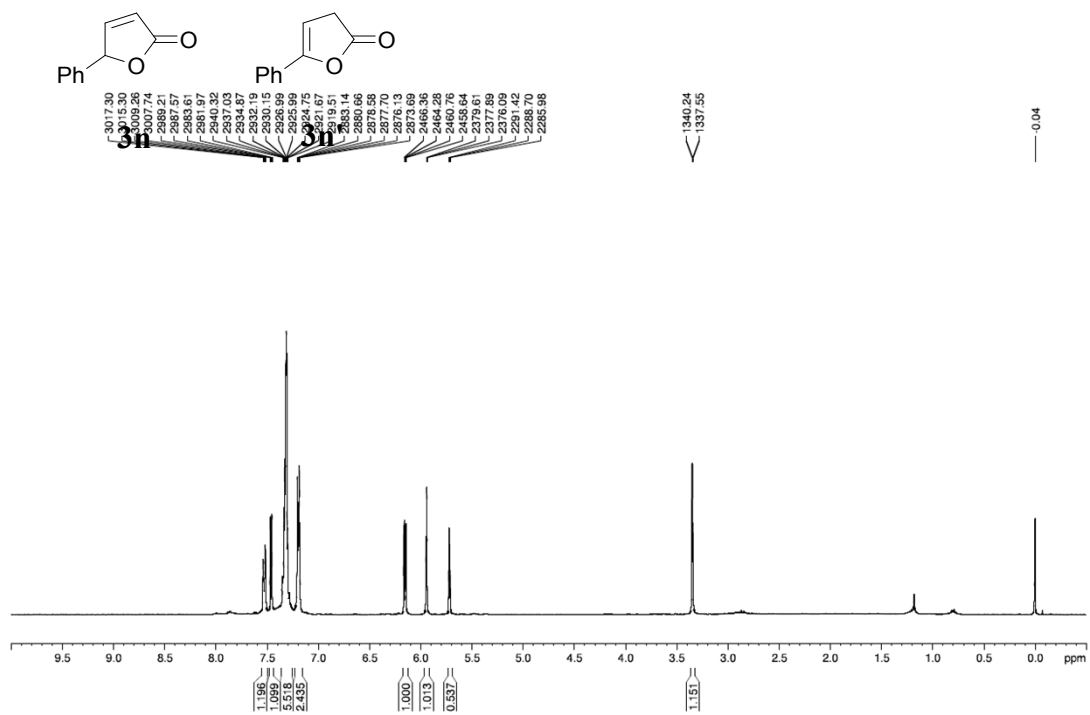


¹³C NMR spectrum of **3I** (100 MHz, CDCl₃)

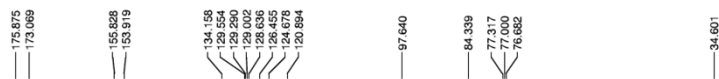
^{13}C NMR spectrum of **3m** (100 MHz, CDCl_3)



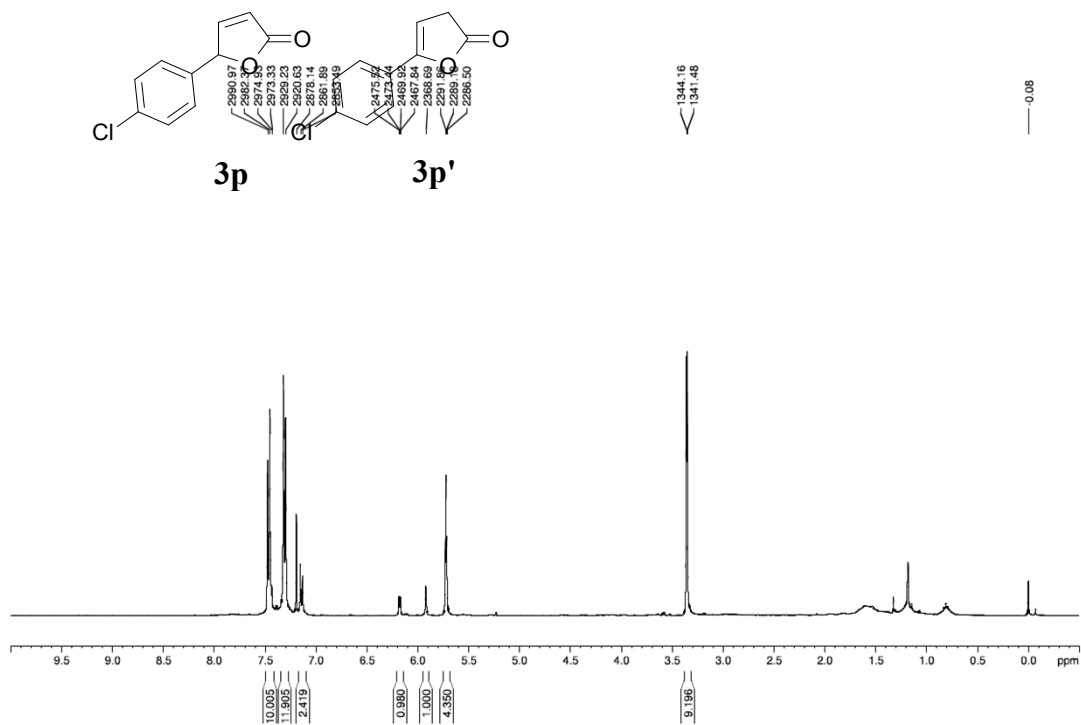
^1H NMR spectrum of **3n** and **3n'** (400 MHz, CDCl_3)



^{13}C NMR spectrum of **3n** and **3n'** (100 MHz, CDCl_3)



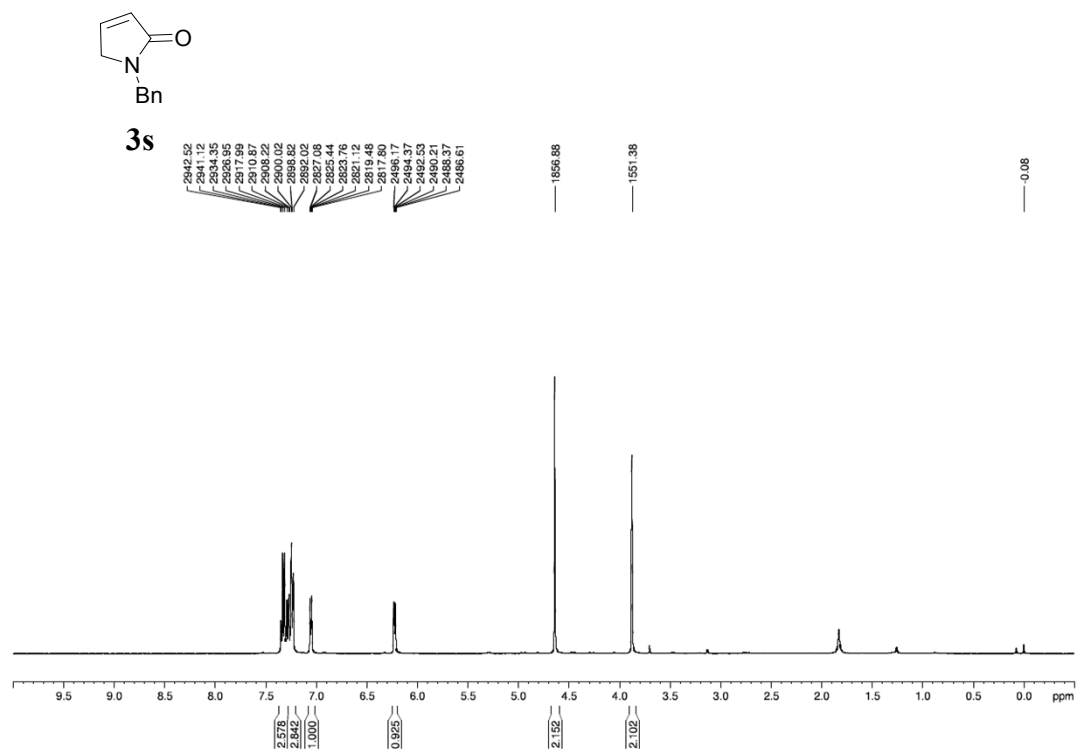
^1H NMR spectrum of **3p** and **3p'** (400 MHz, CDCl_3)



^{13}C NMR spectrum of **3p** and **3p'** (100 MHz, CDCl_3)



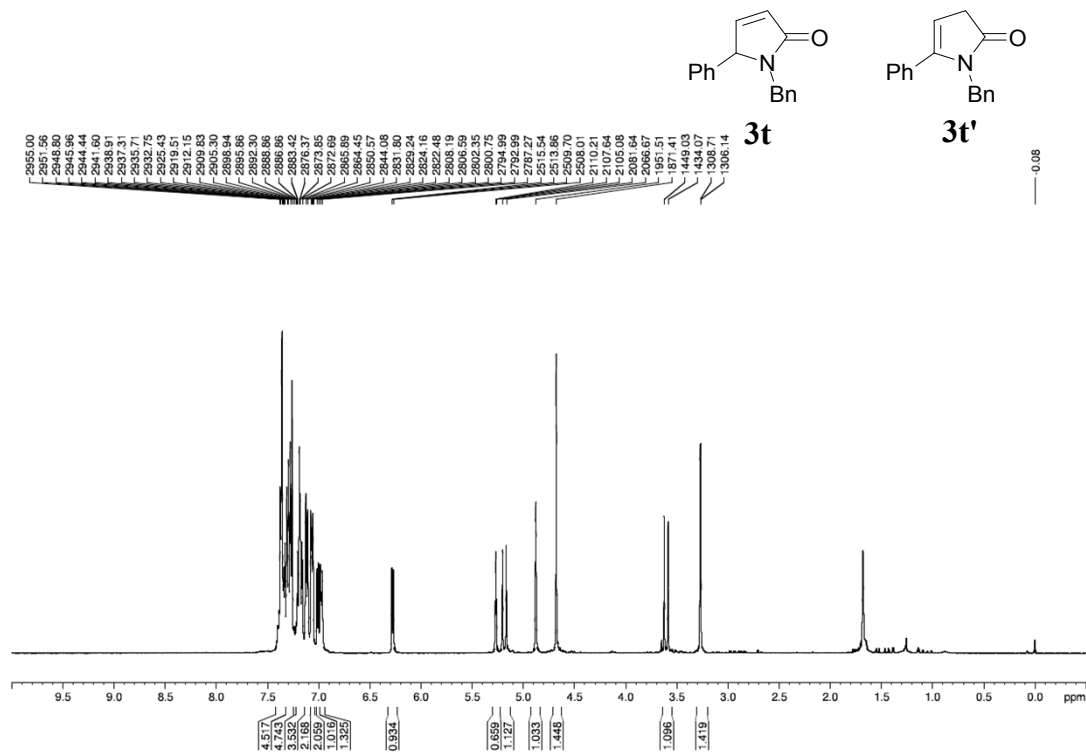
¹H NMR spectrum of **3s** (400 MHz, CDCl₃)



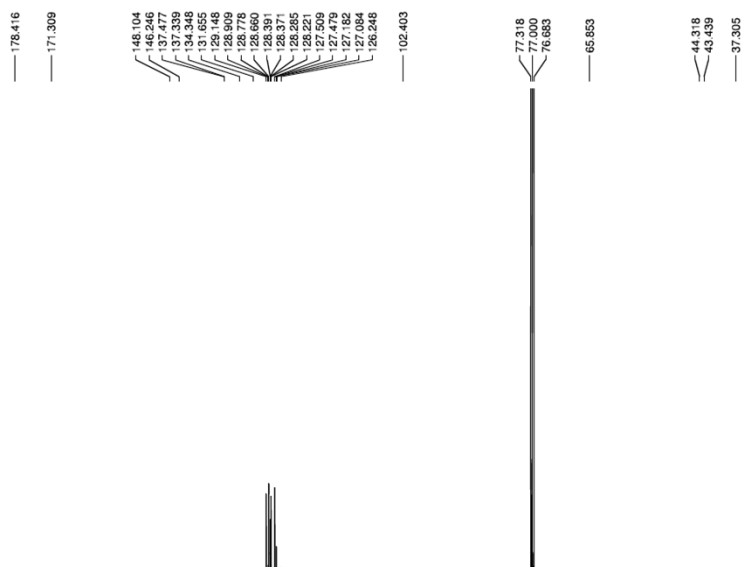
¹³C NMR spectrum of **3s** (100 MHz, CDCl₃)



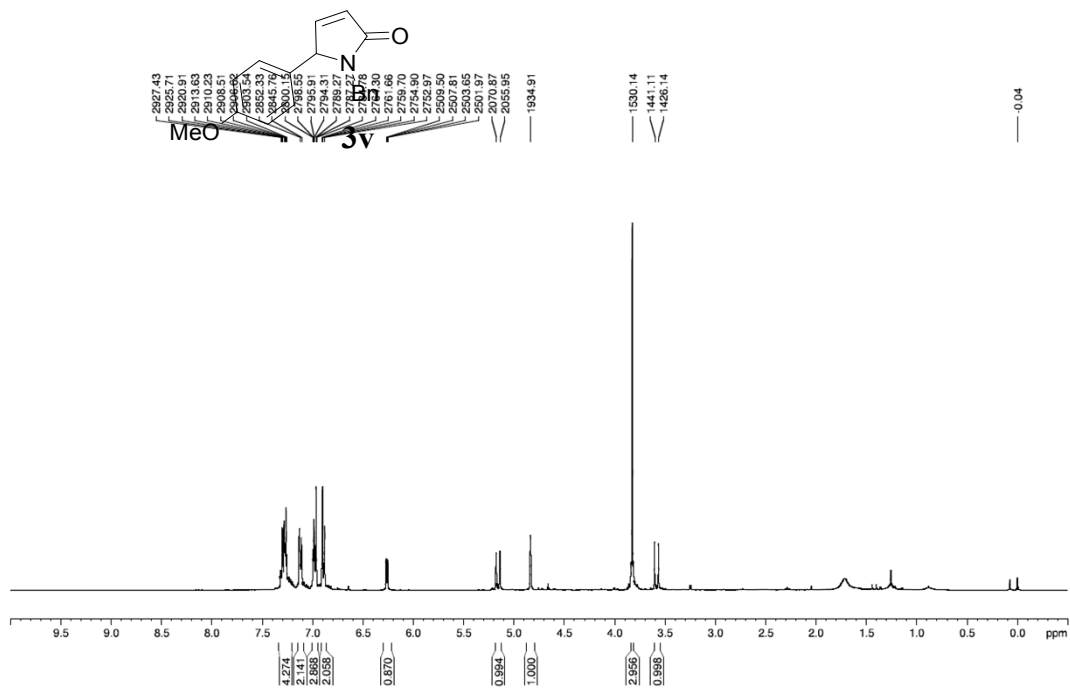
^1H NMR spectrum of **3t** and **3t'** (400 MHz, CDCl_3)



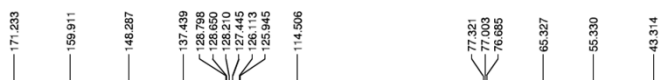
^{13}C NMR spectrum of **3t** and **3t'** (100 MHz, CDCl_3)



¹H NMR spectrum of **3v** (400 MHz, CDCl₃)

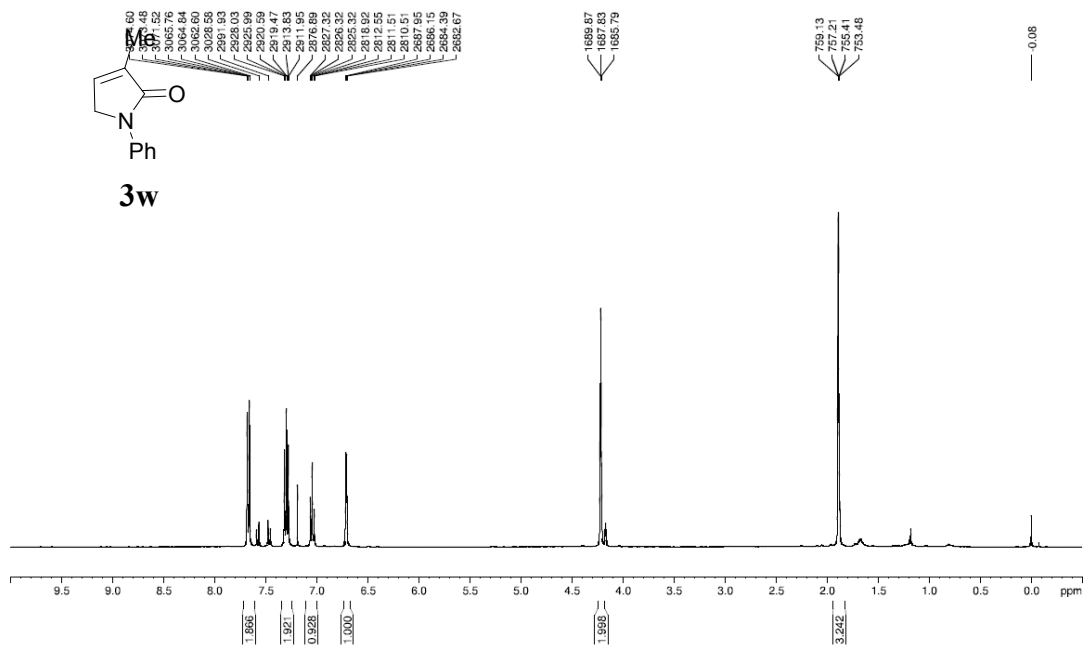


¹³C NMR spectrum of **3v** (100 MHz, CDCl₃)

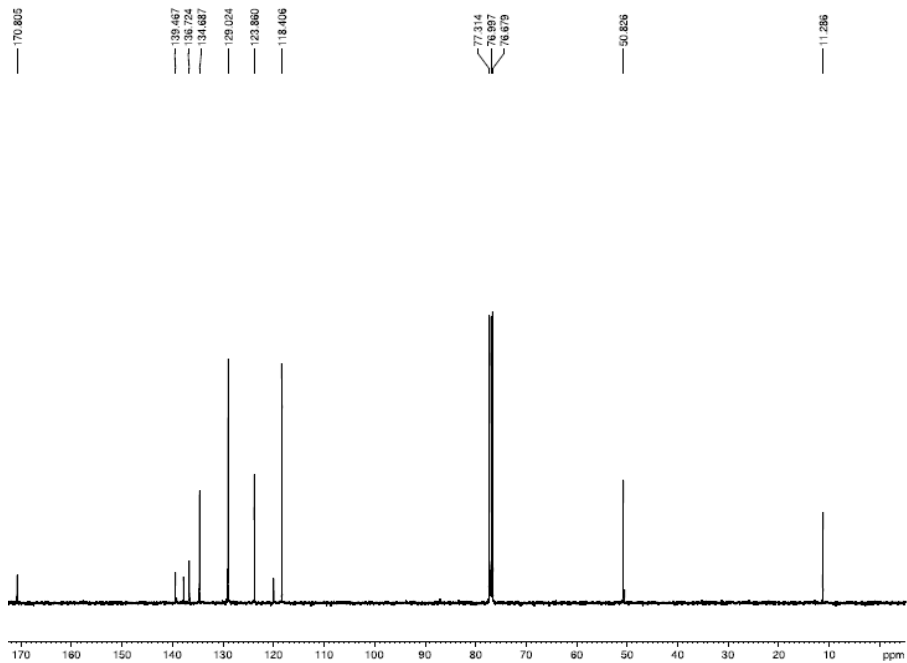


^1H NMR
(400 MHz,

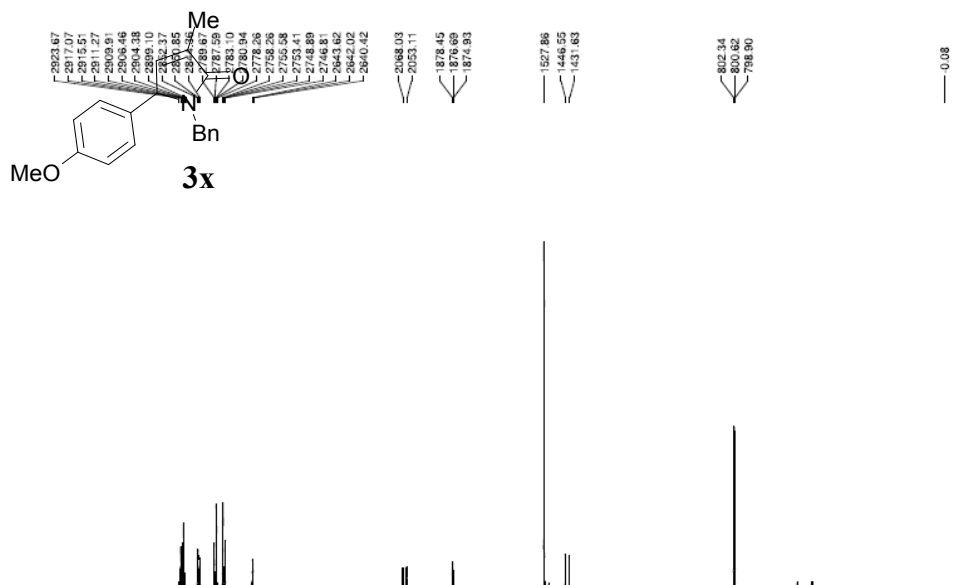
spectrum of **3w**
 CDCl_3)



^{13}C NMR spectrum of **3w** (100 MHz, CDCl_3)



^1H NMR spectrum of **3x** (400 MHz, CDCl_3)



^{13}C NMR spectrum of **3x** (100 MHz, CDCl_3)

