Supporting Information

Formal synthesis of (+)-3-*epi*-eupomatilone-6 and its 3,5-bis-epimer

Sariya Yodwaree,[a] Darunee Soorukram,*[a] Chutima Kuhakarn,[a] Patoomratana Tuchinda,[a] Vichai Reutrakul,[a] and Manat Pohmakotr[a]

[a]*Department of Chemistry and Center of Excellence for Innovation in Chemistry (PERCH-CIC), Faculty of Science, Mahidol University, Rama VI Road, Bangkok 10400, Thailand*
Fax: +662 354 7151; Tel: +662 201 5148
[*]*E-mail: darunee.soo@mahidol.ac.th*

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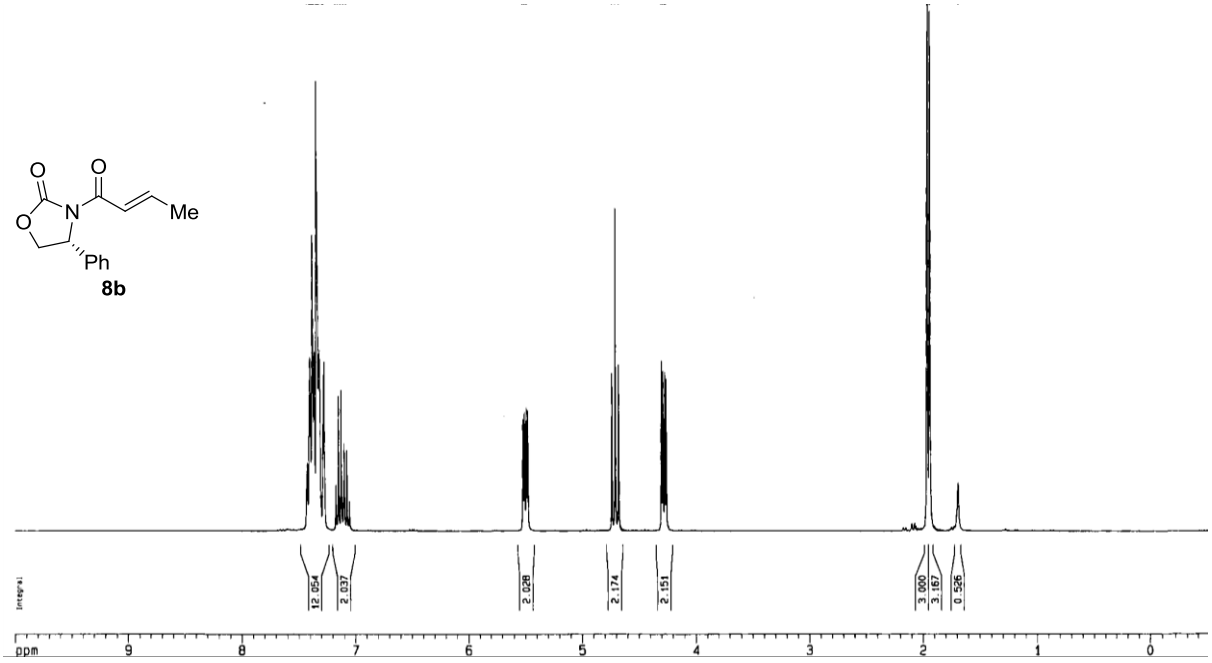
^{1}H NMR spectrum of **8b** (300 MHz, $CDCl_3$)



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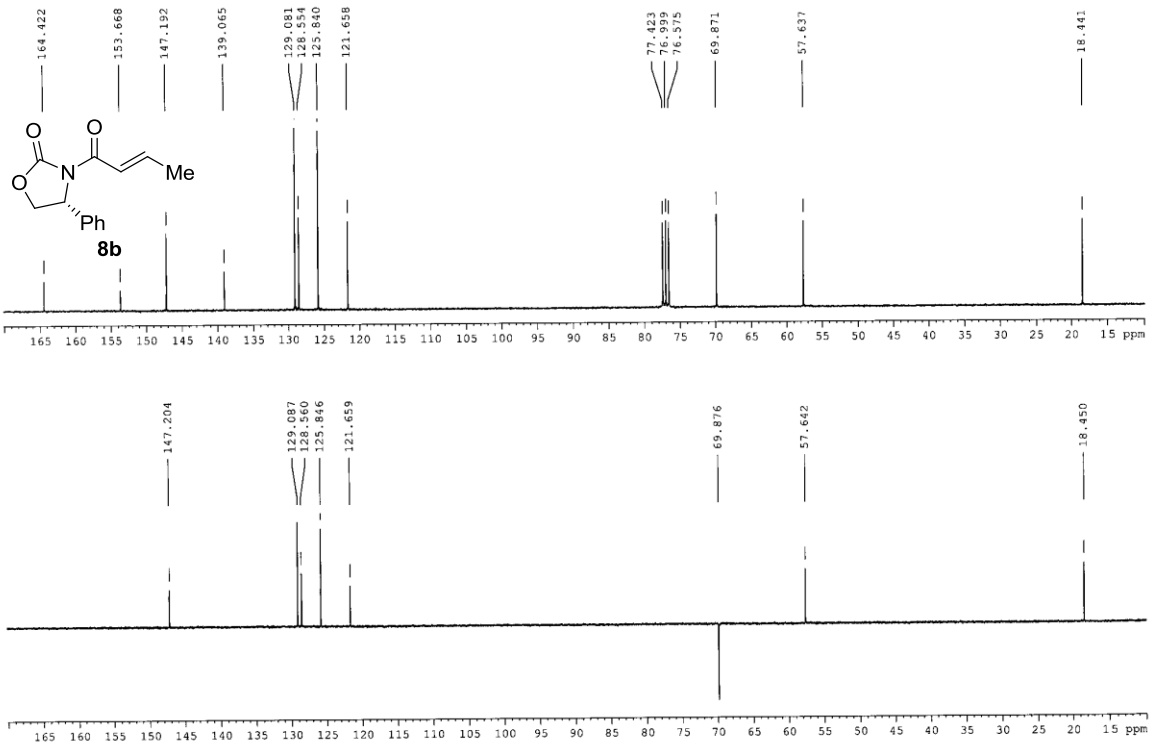
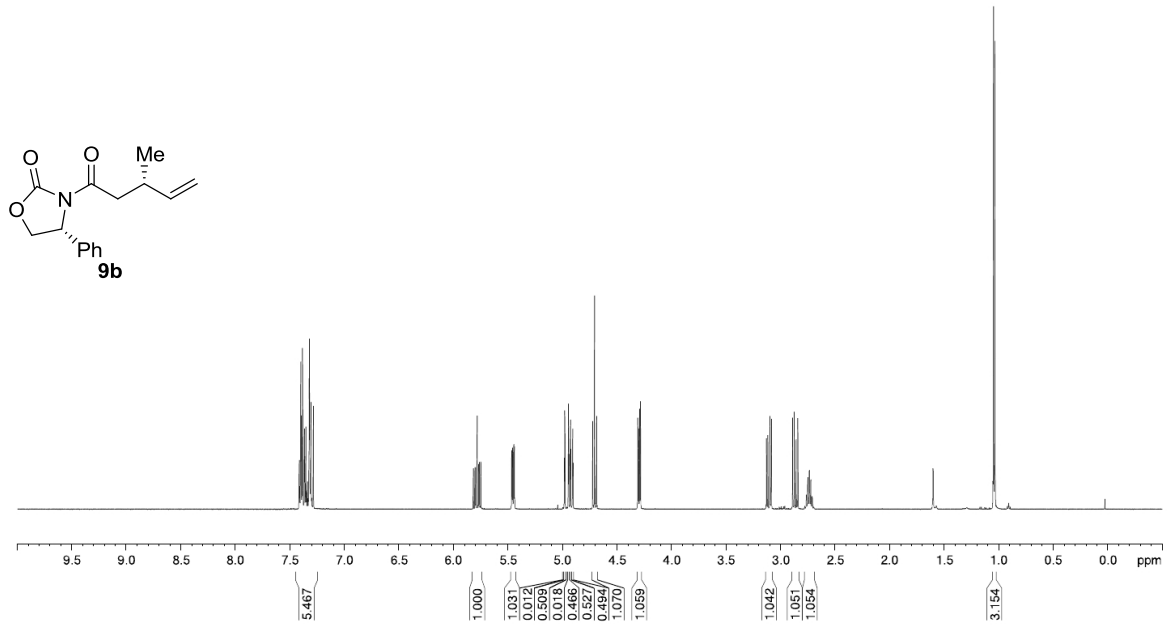


^{1}H NMR spectrum of **9b** (500 MHz, $CDCl_3$)



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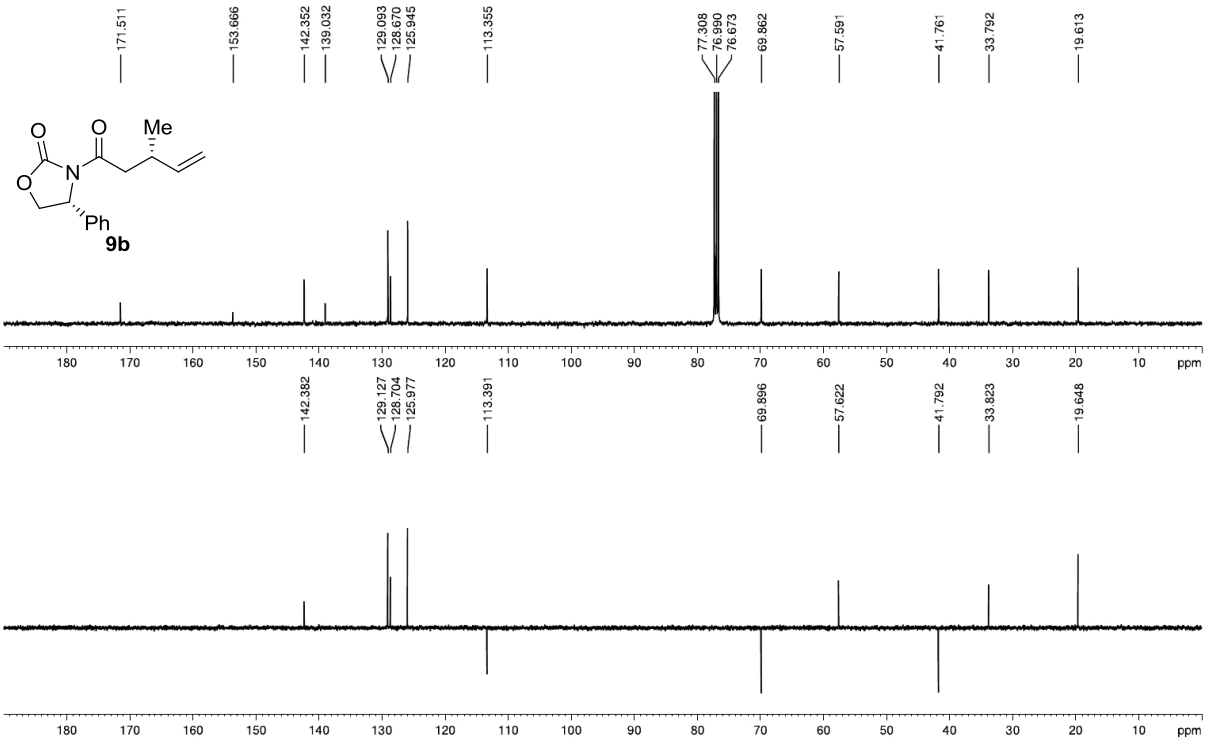
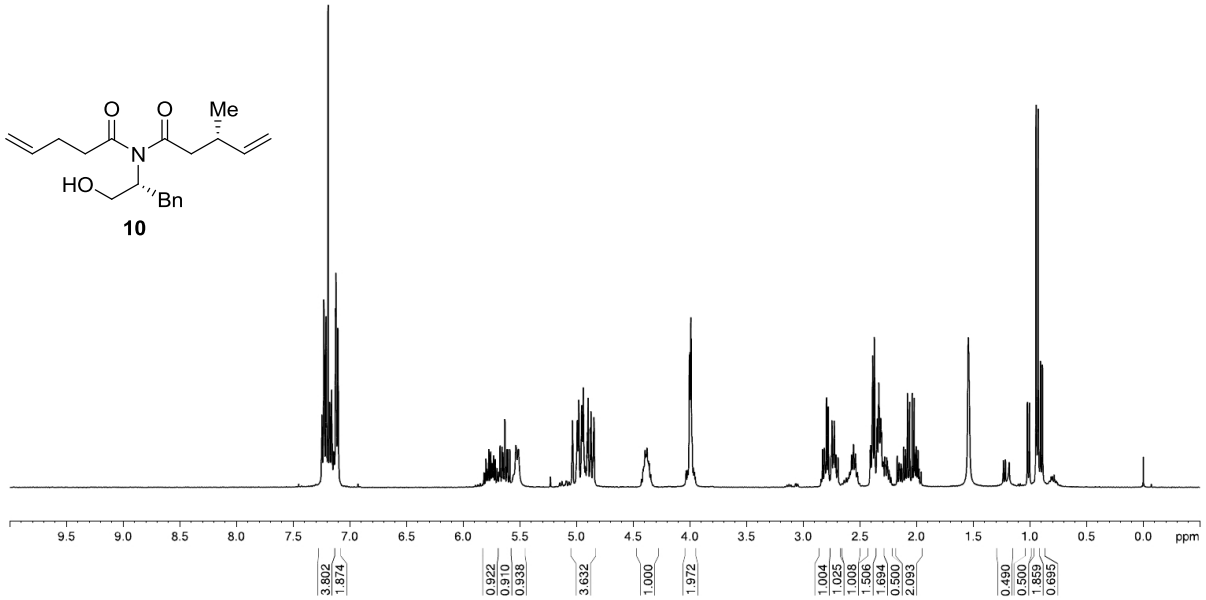
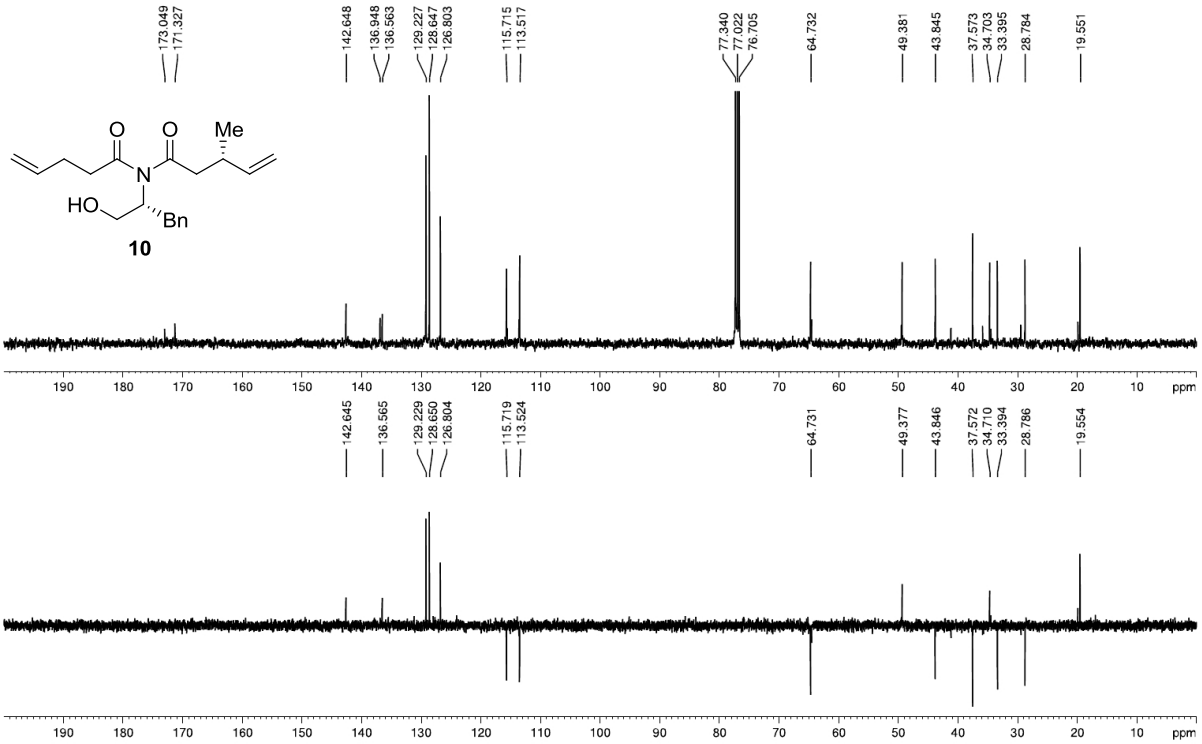


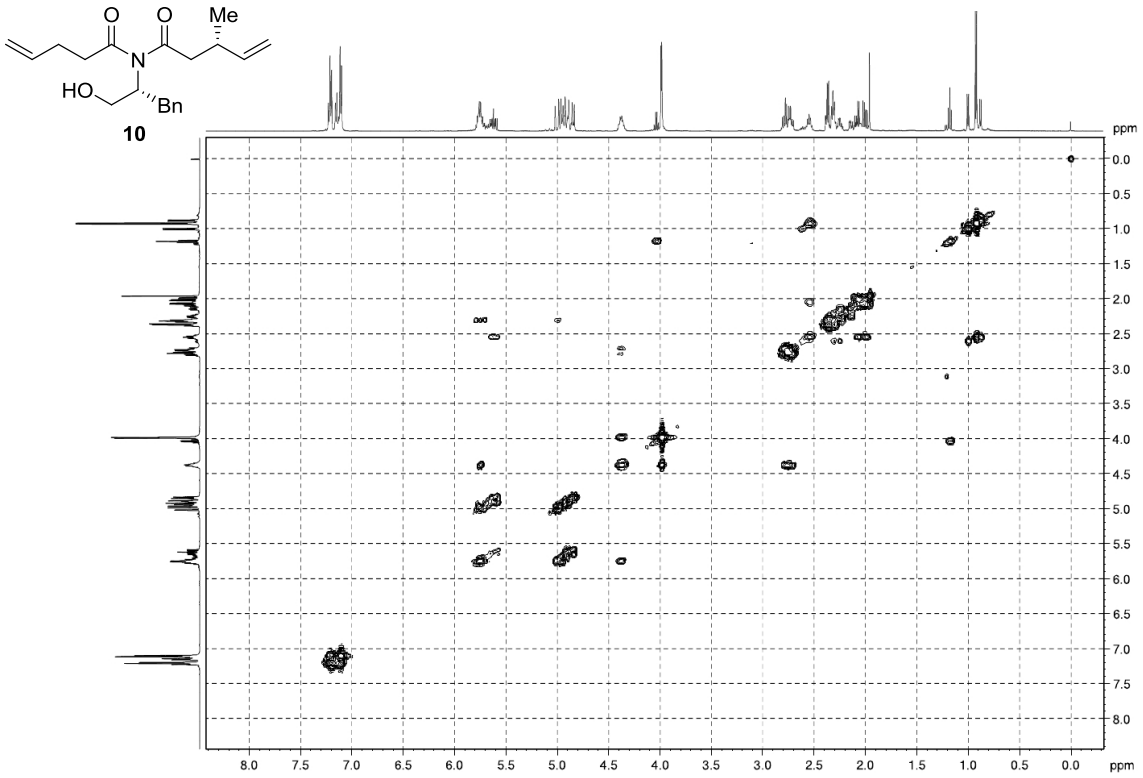
^{1}H NMR spectrum of **10** (400 MHz, $CDCl_3$)



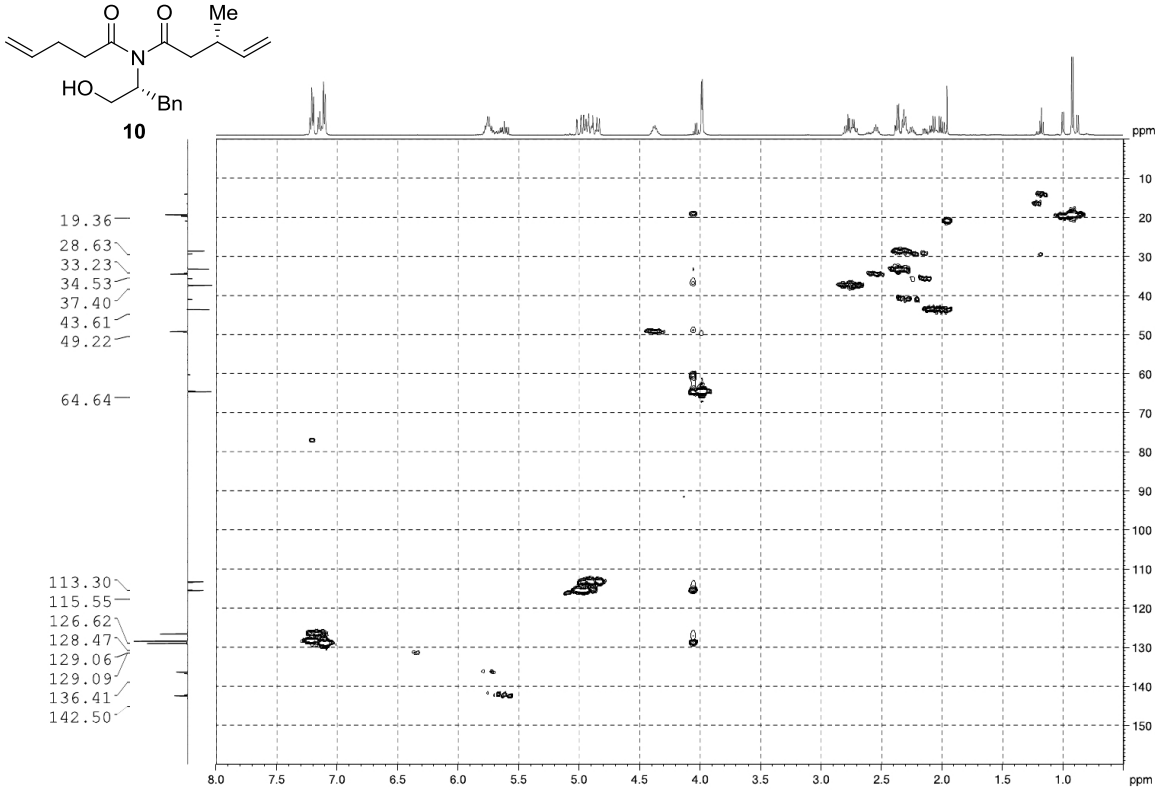
^{13}C NMR spectrum of **10** (100 MHz, $CDCl_3$)



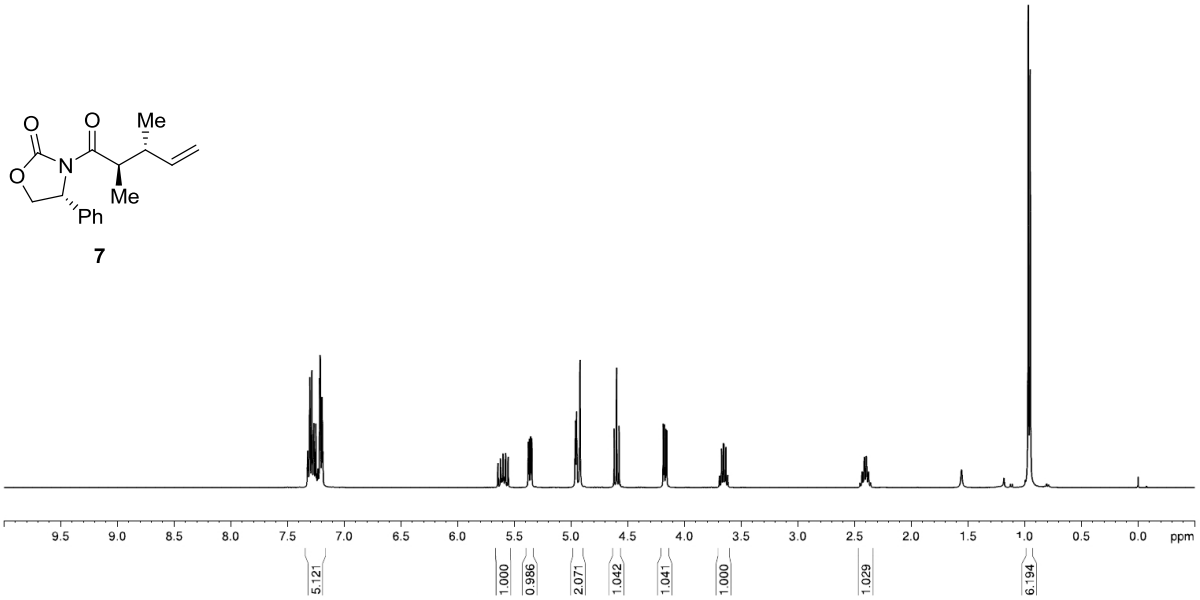
COSY spectrum of **10** (500 MHz, $CDCl_3$)



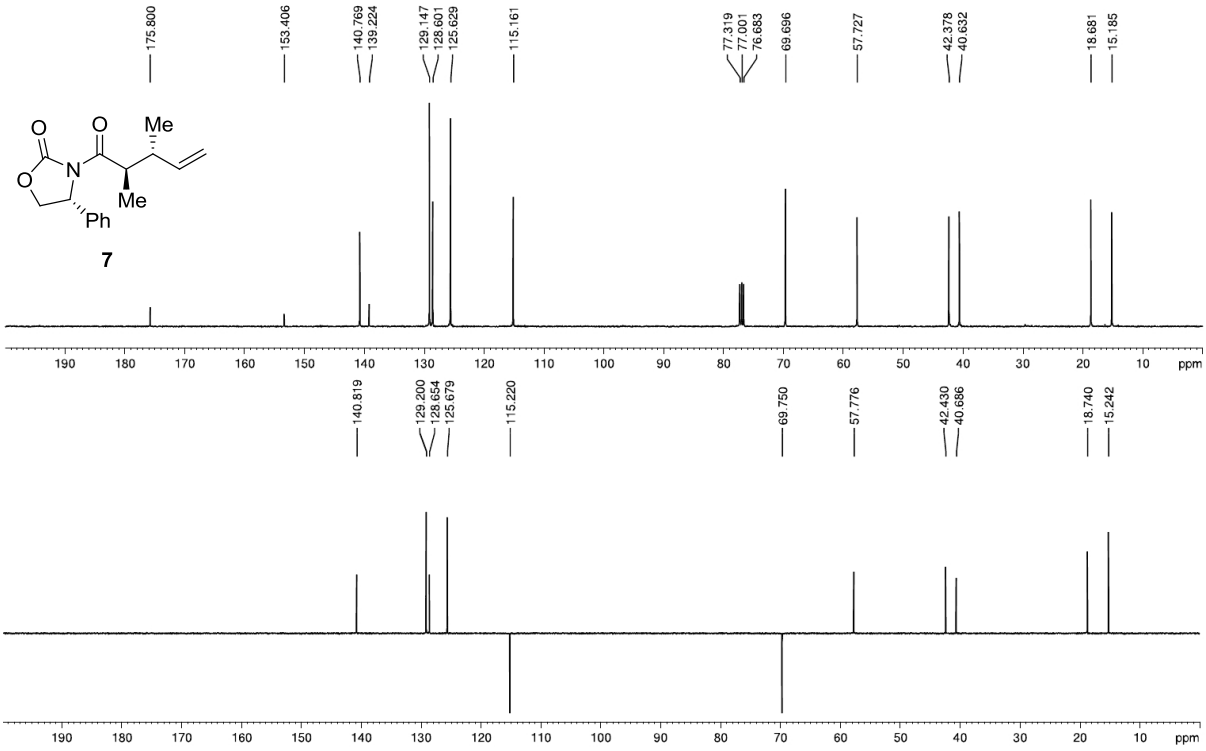
HMQC spectrum of **10** (500 MHz, $CDCl_3$)



^{1}H NMR spectrum of **7** (400 MHz, $CDCl_3$)



^{13}C NMR spectrum of **7** (100 MHz, $CDCl_3$)



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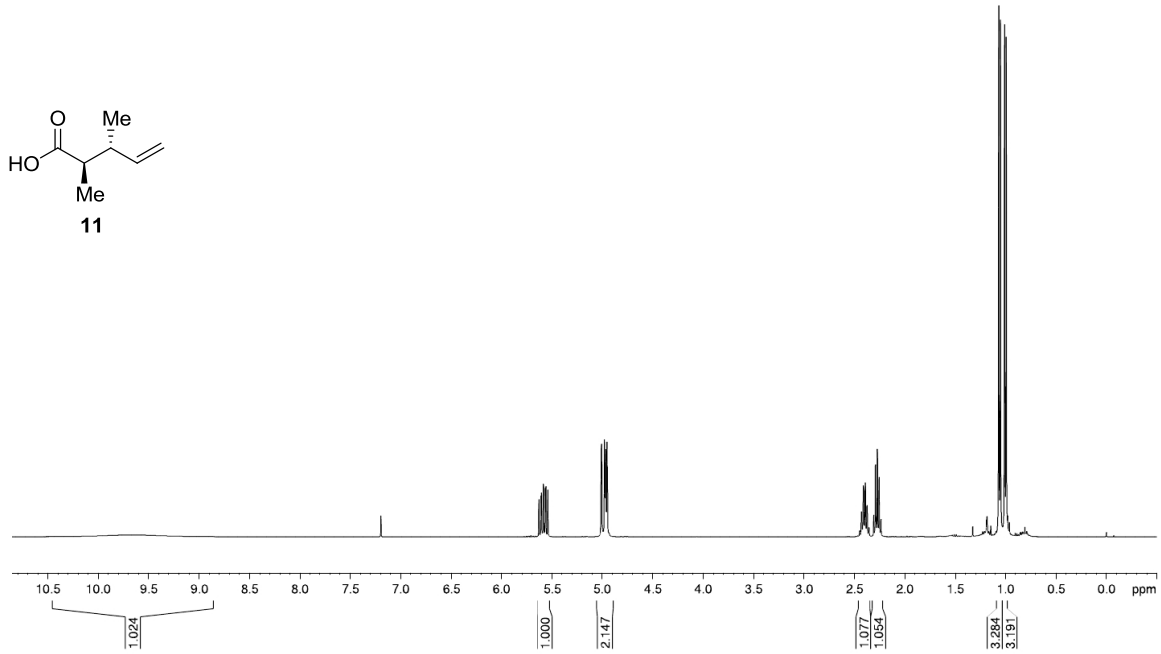

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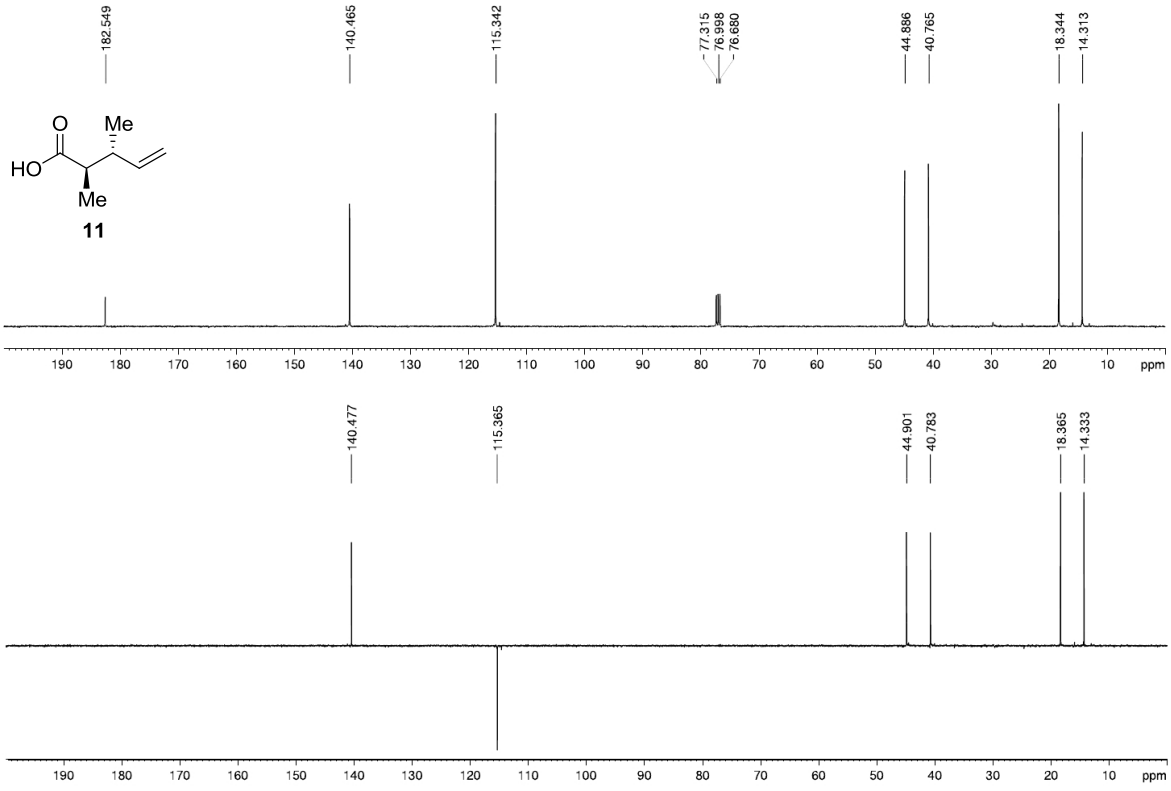

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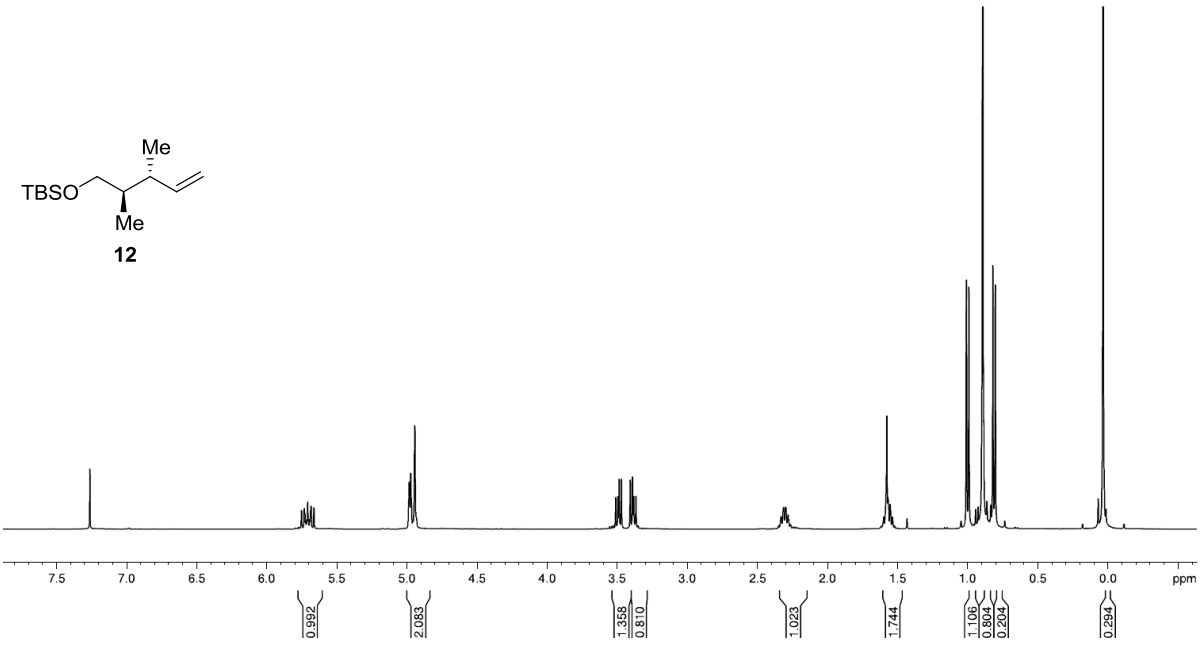

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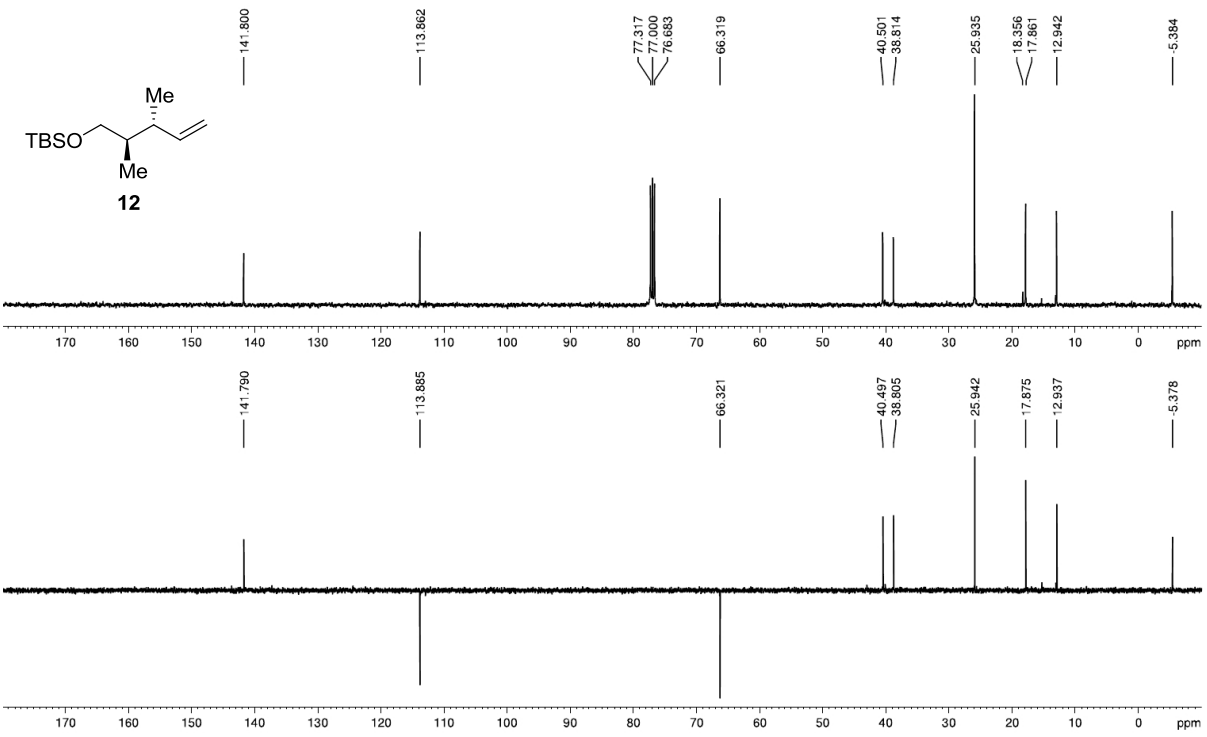

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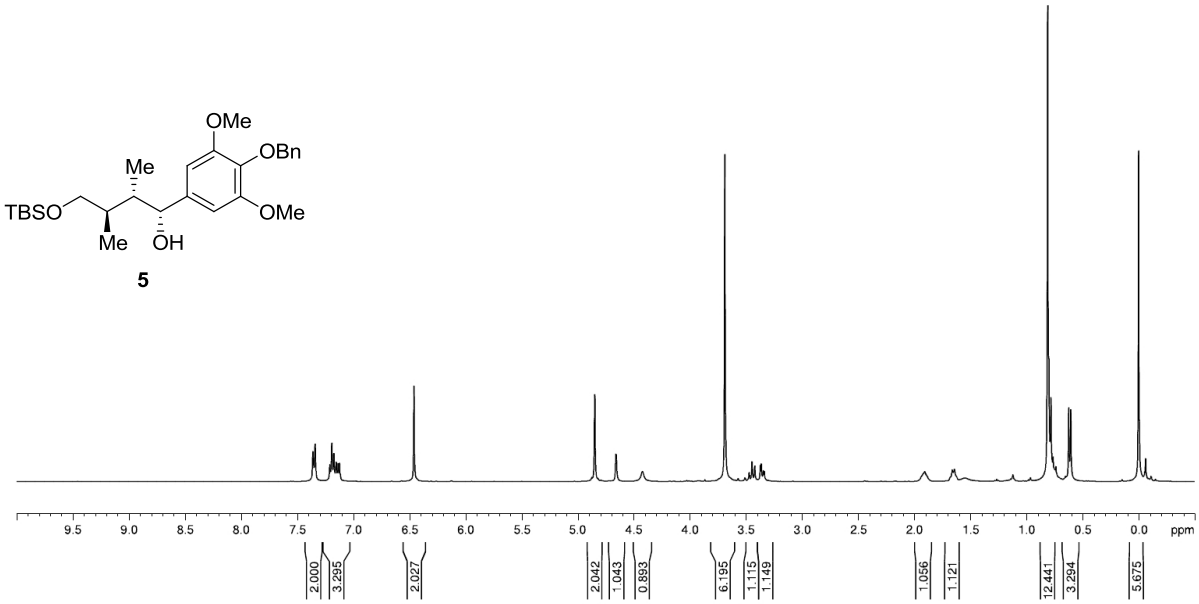
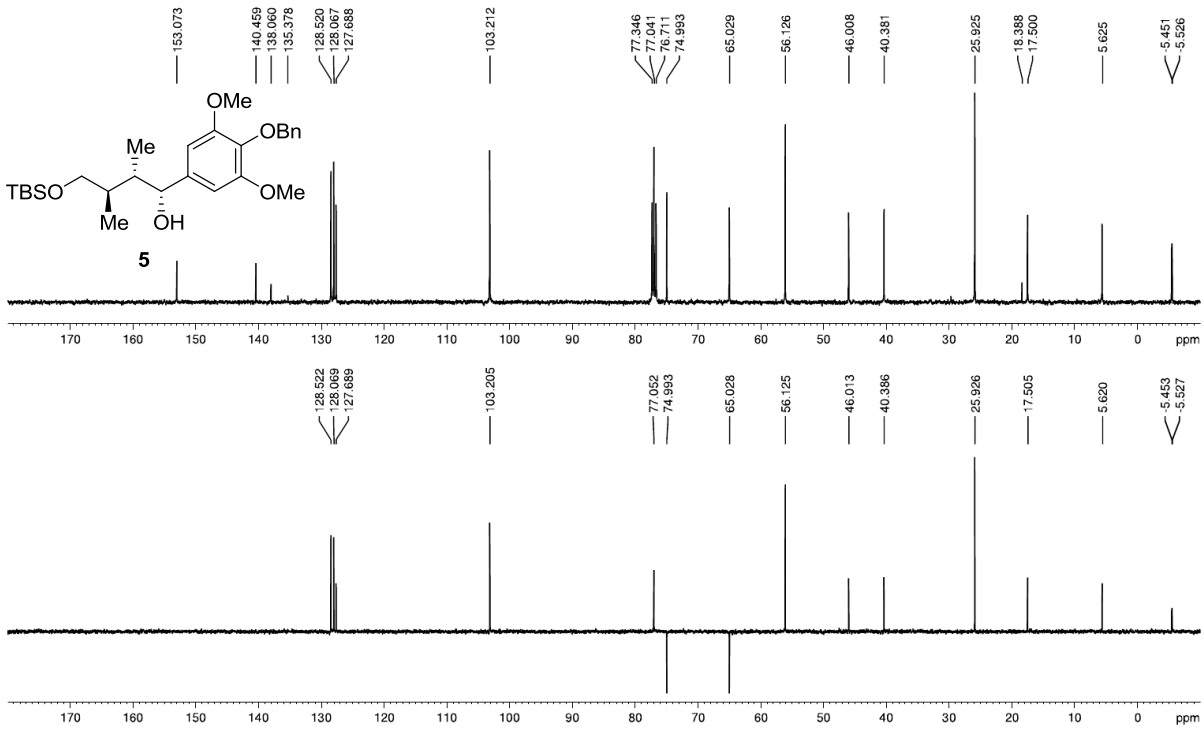


^{13}C NMR spectrum of **5** ($CDCl_3$, 100 MHz)



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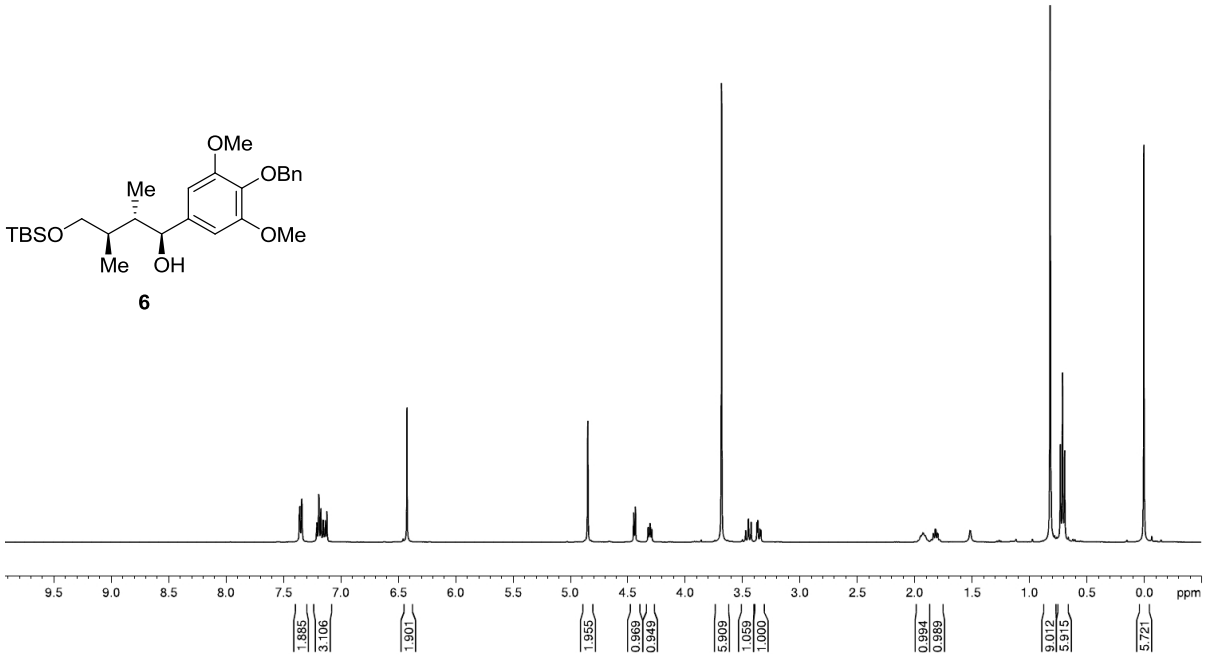
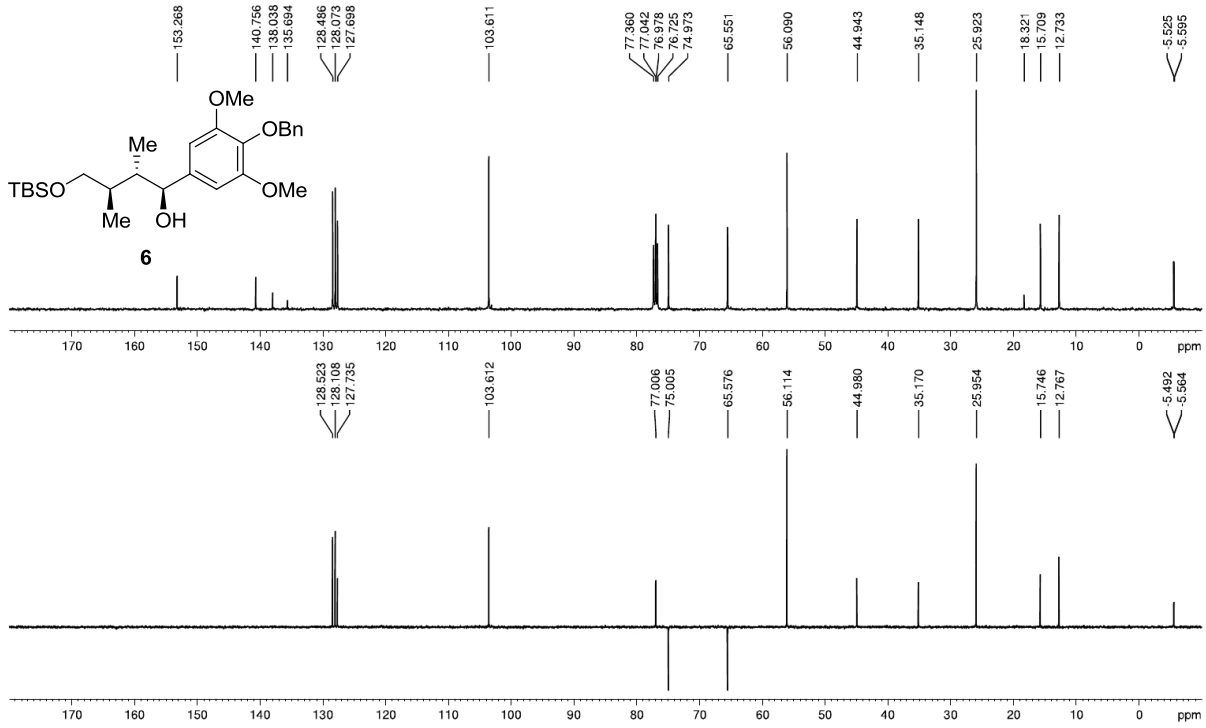


^{13}C NMR spectrum of **6** (100 MHz, $CDCl_3$)



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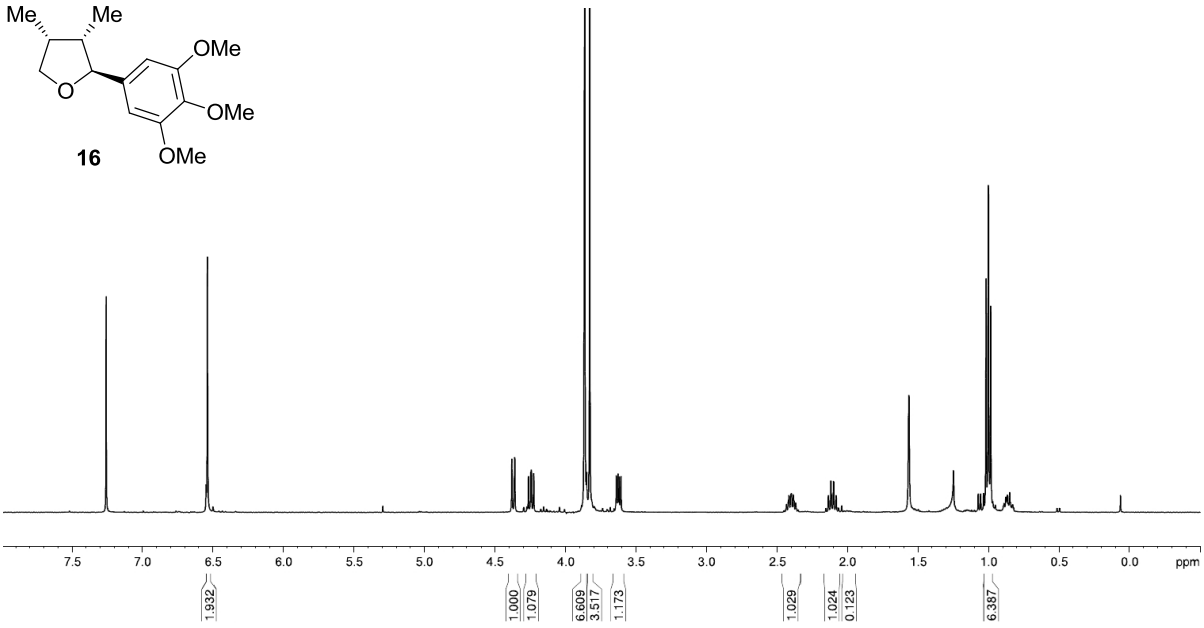
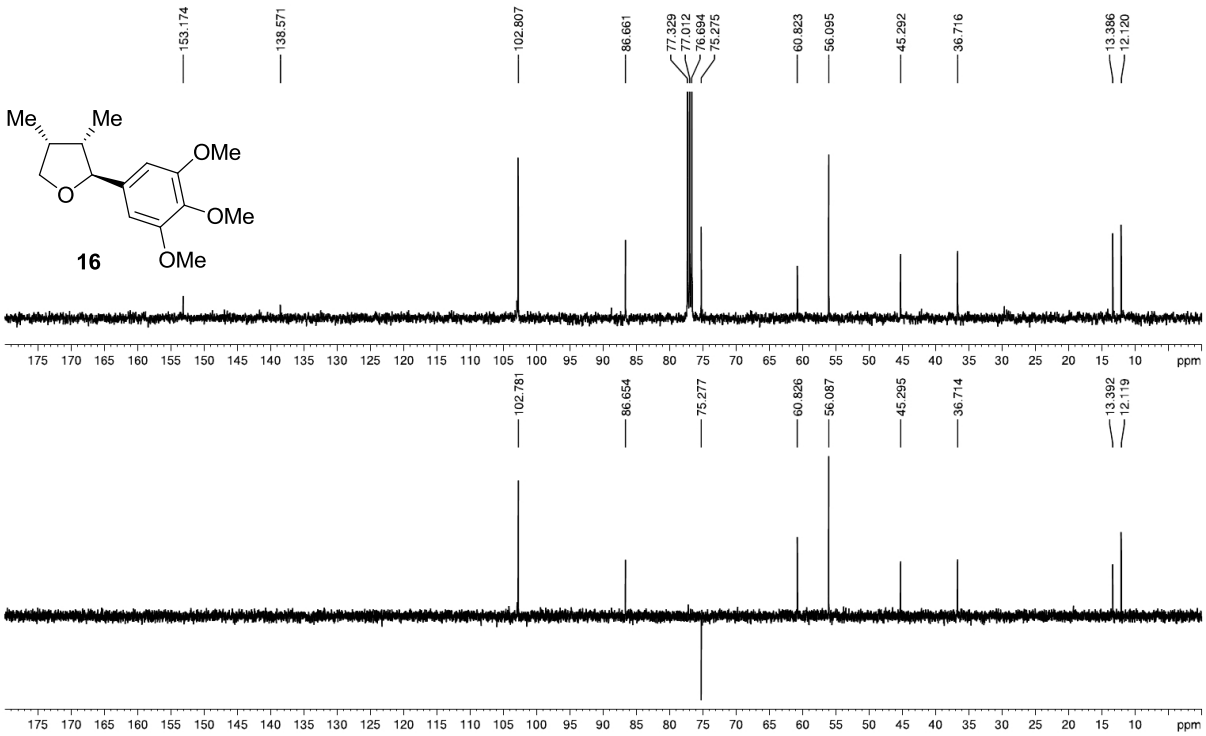
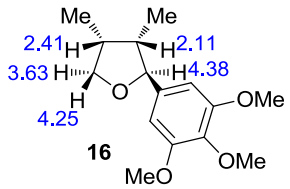


^{13}C NMR spectrum of **16** (100 MHz, $CDCl_3$)



NOE spectrum of **16** (500 MHz, $CDCl_3$)



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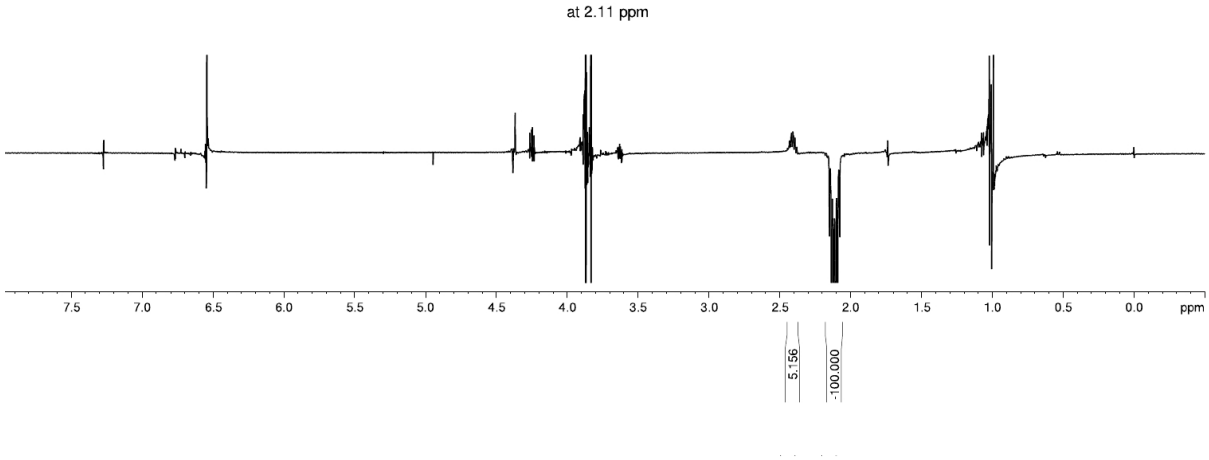

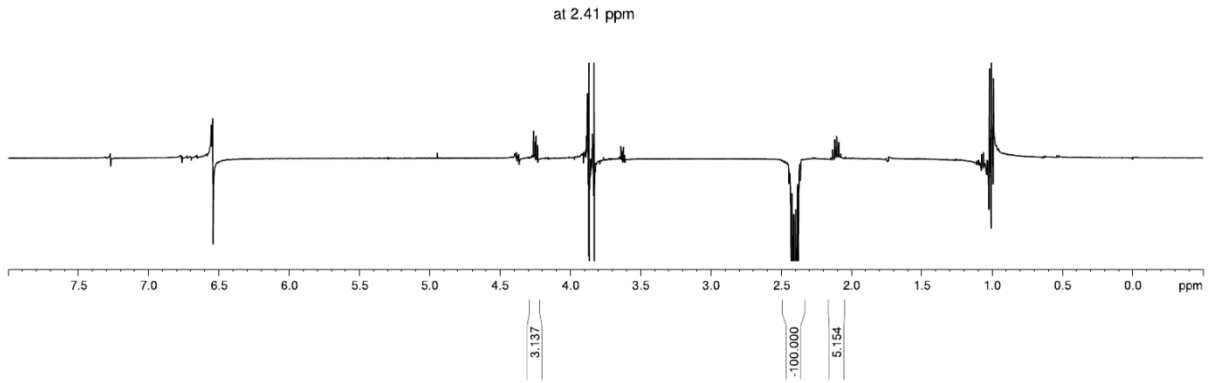

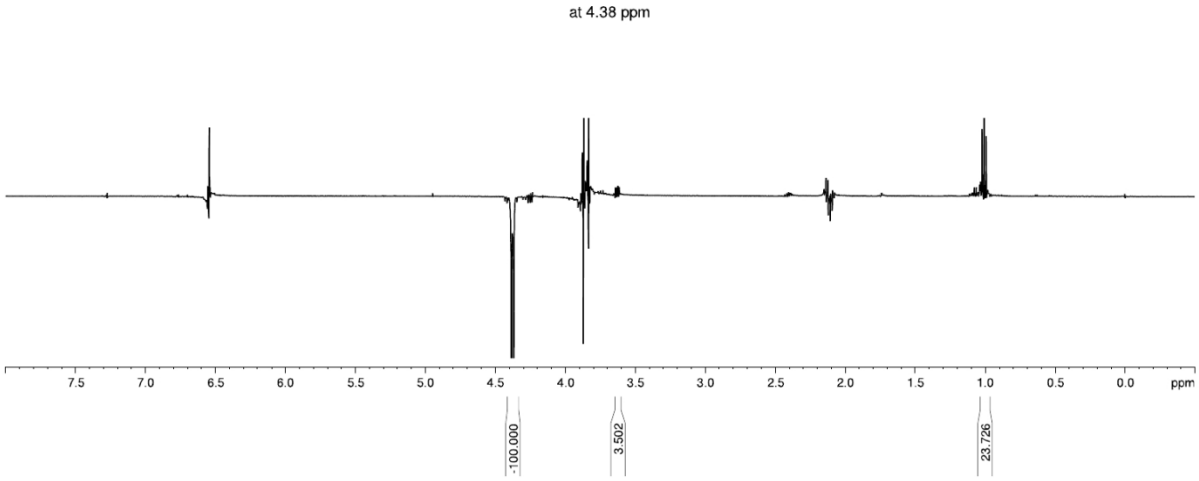

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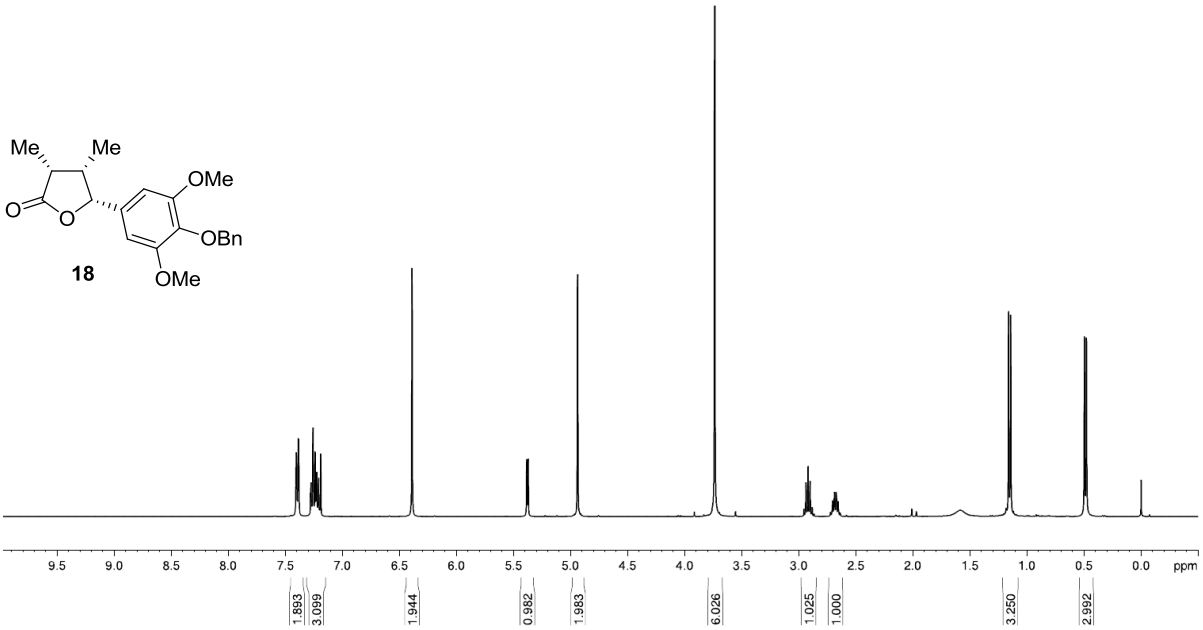
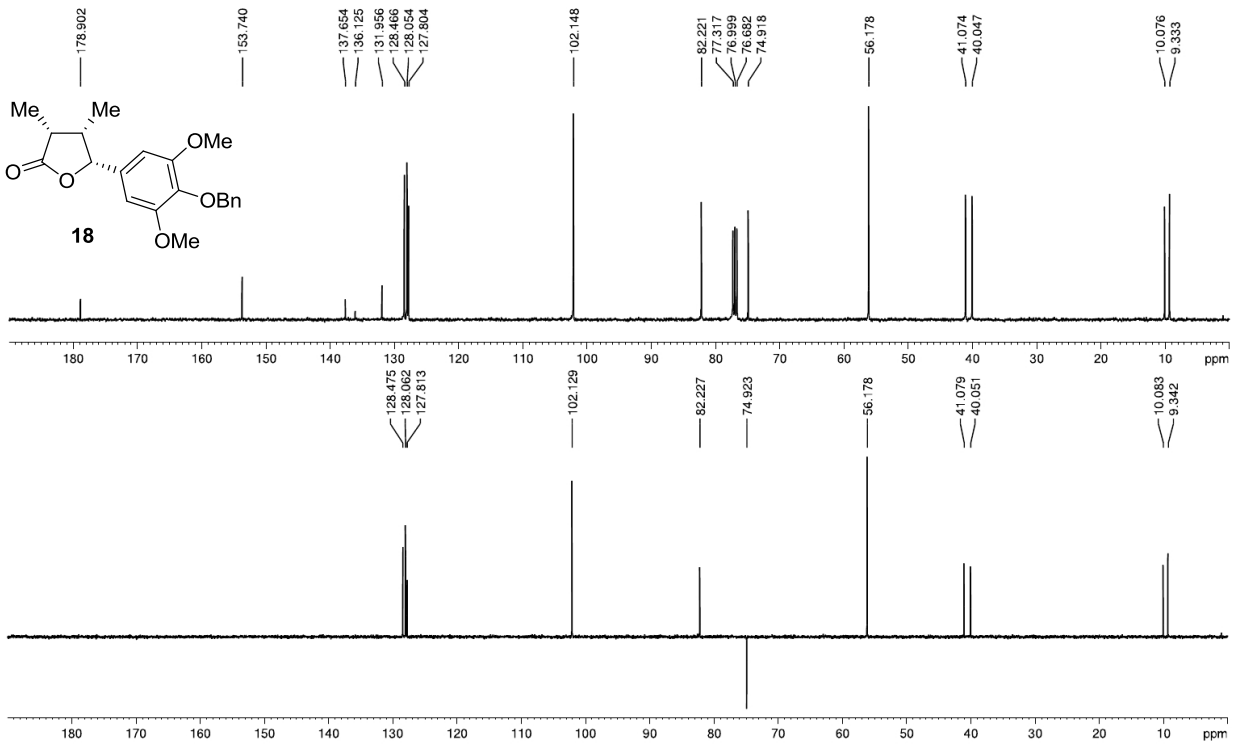
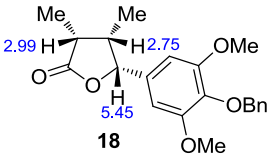


^{13}C NMR spectrum of **18** (100 MHz, $CDCl_3$)



NOE spectrum of **18** (500 MHz, $CDCl_3$)



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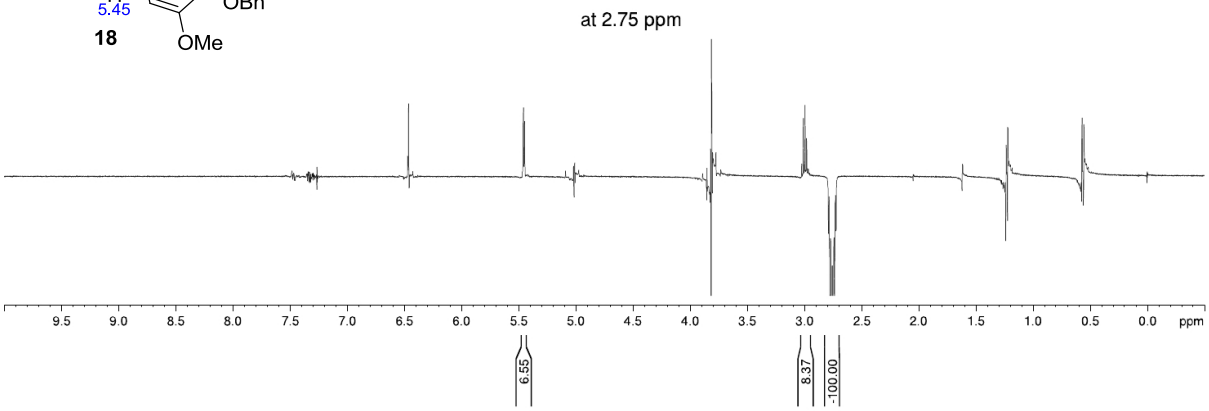
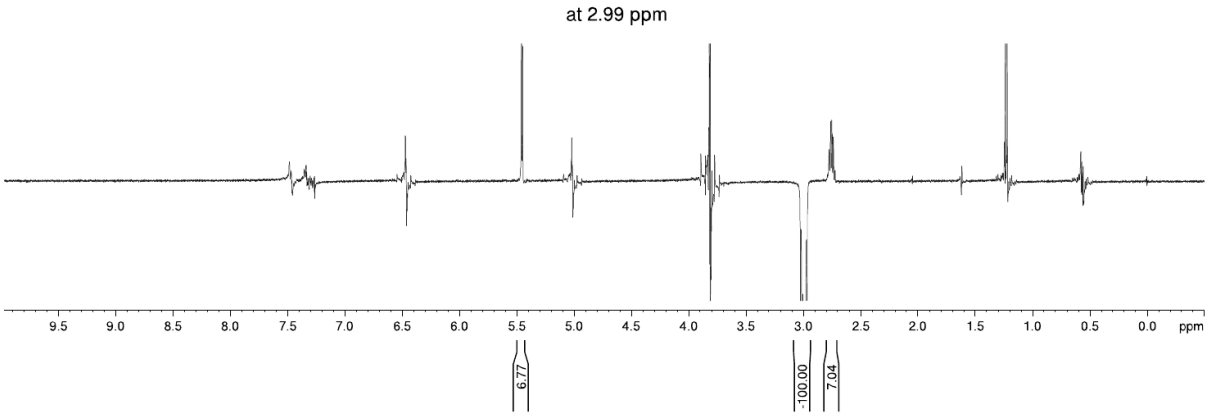
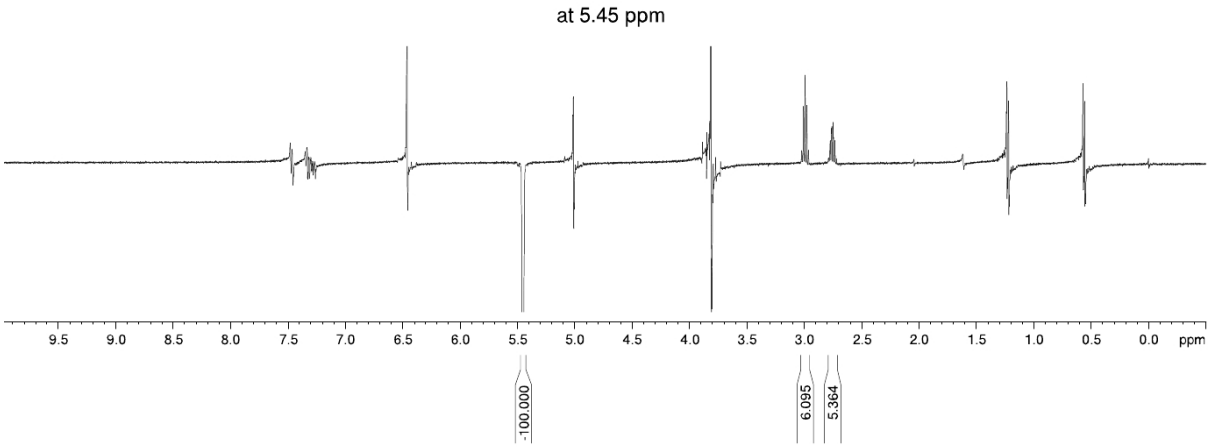
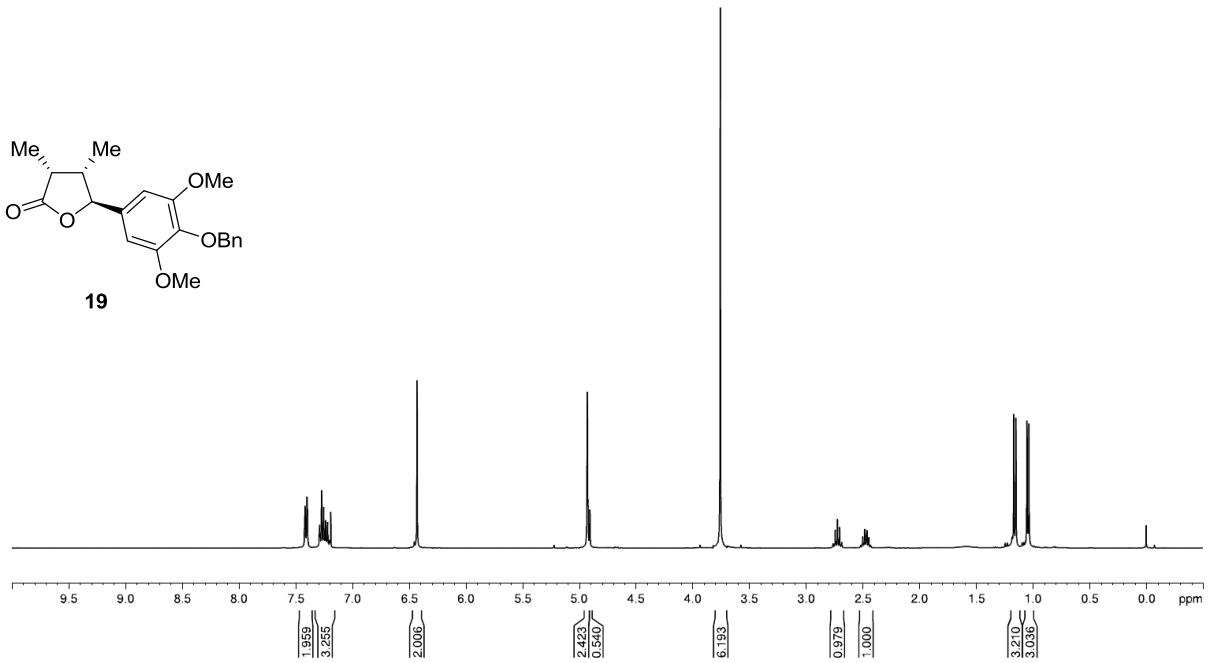


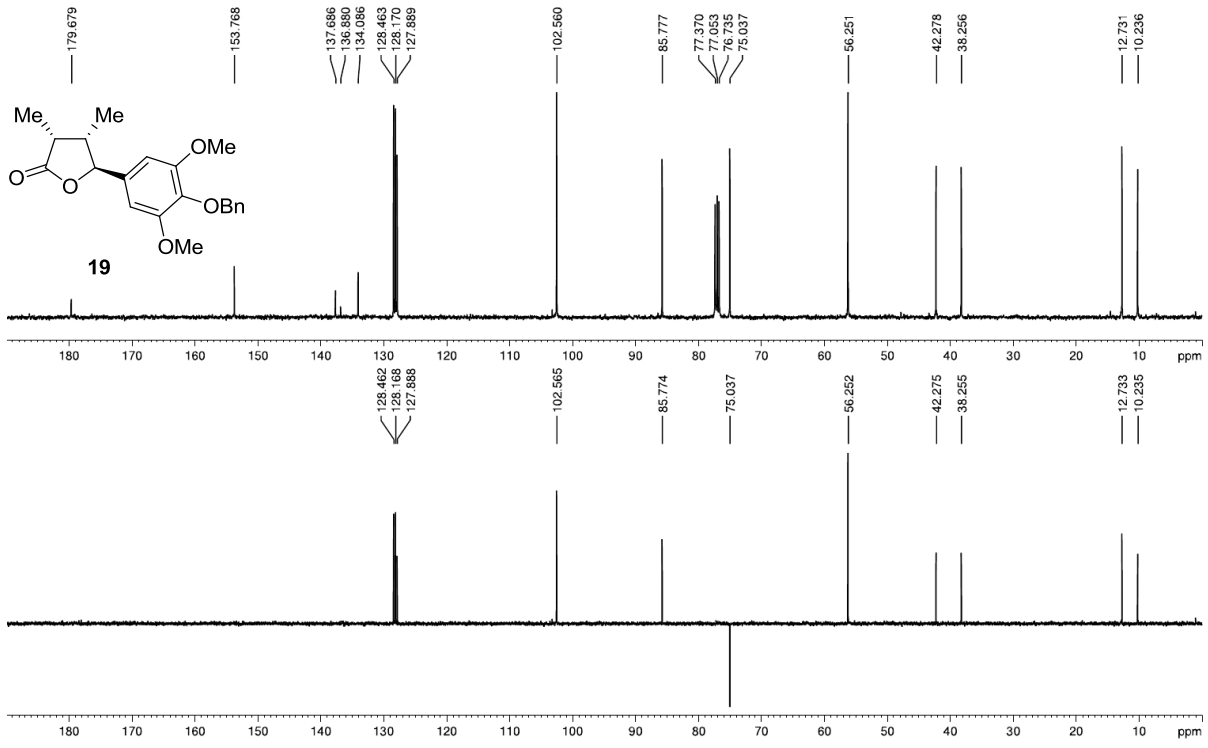




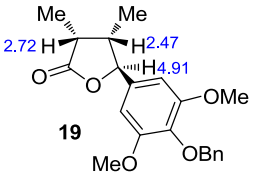
^{1}H NMR spectrum of **19** (400 MHz, $CDCl_3$)

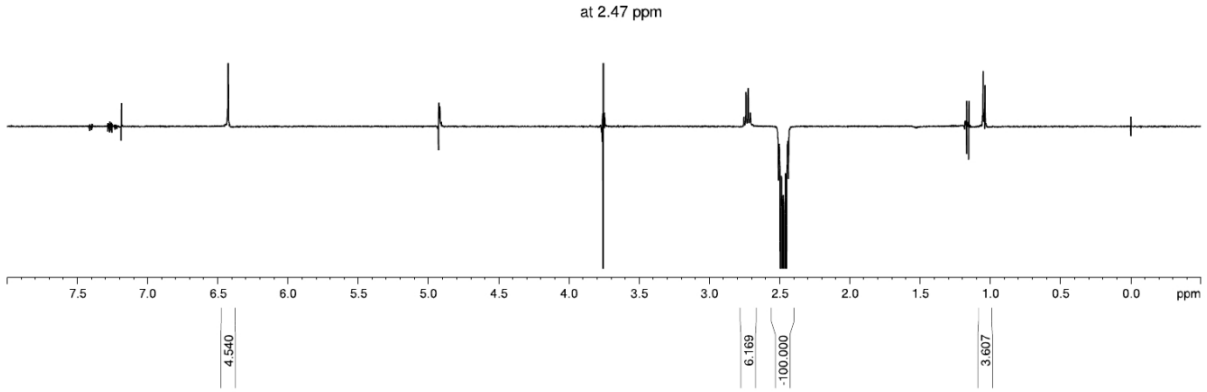


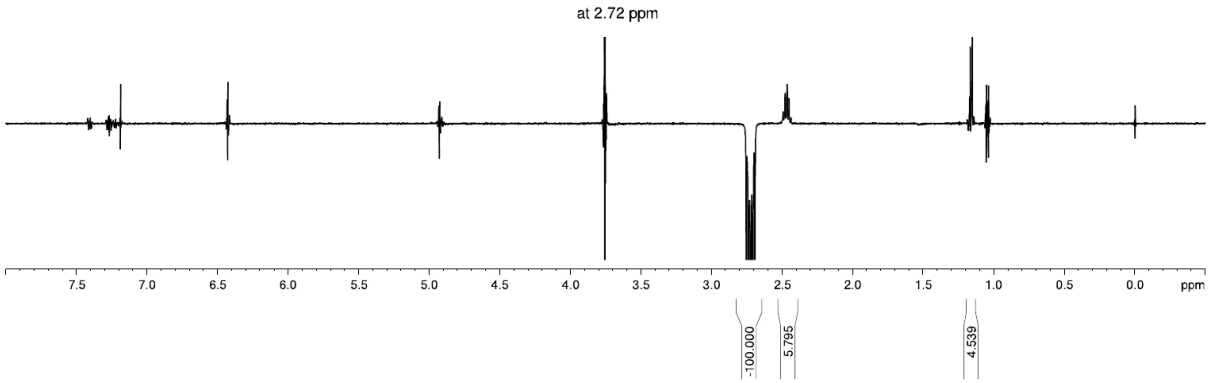
^{13}C NMR spectrum of **19** (100 MHz, $CDCl_3$)

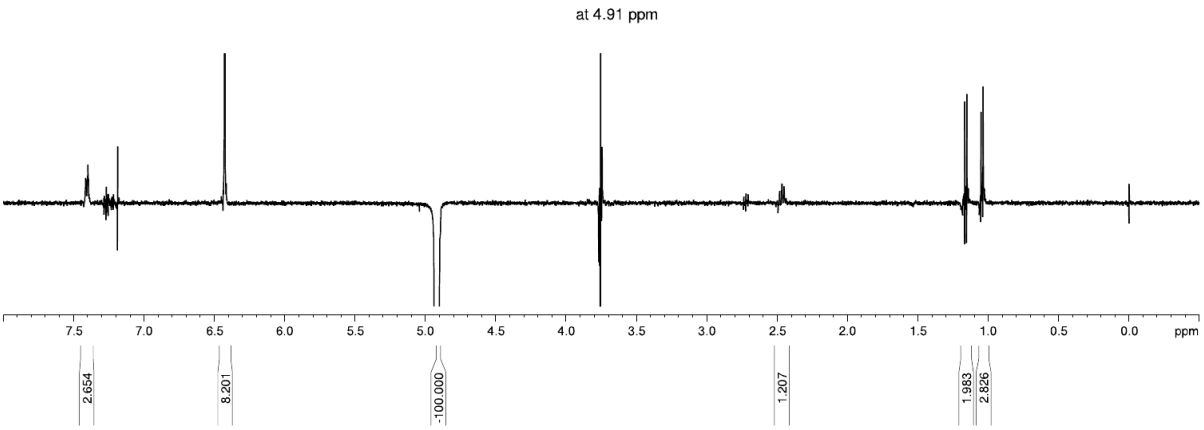


NOE spectrum of **19** (500 MHz, $CDCl_3$)

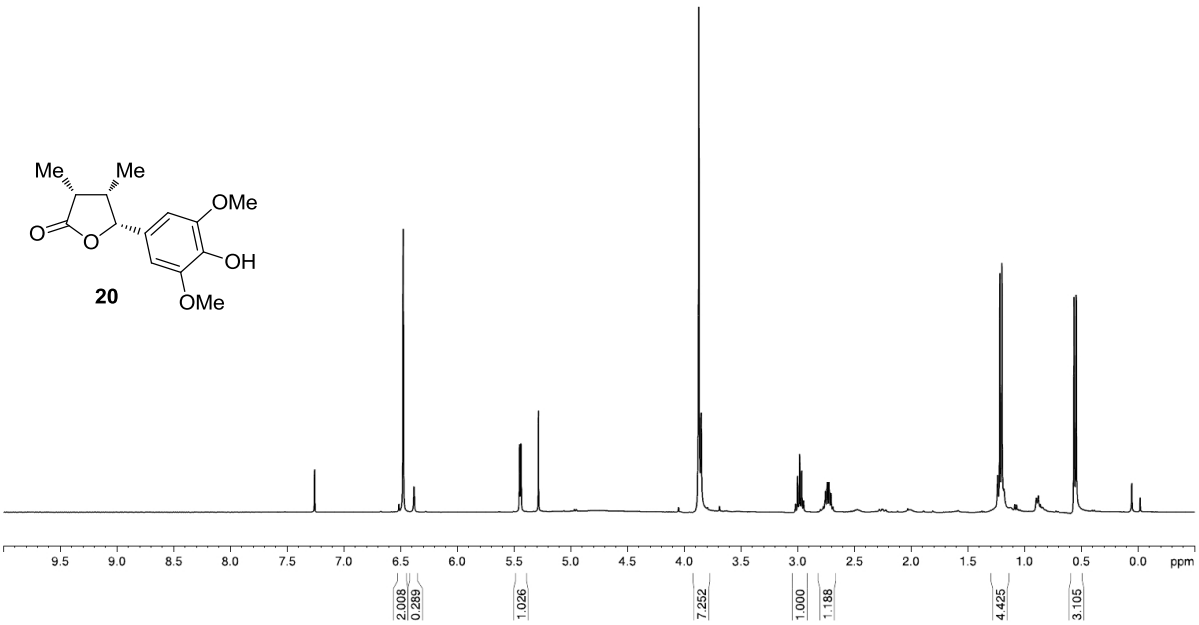








^{1}H NMR spectrum of the crude compound **20** (400 MHz, $CDCl_3$)



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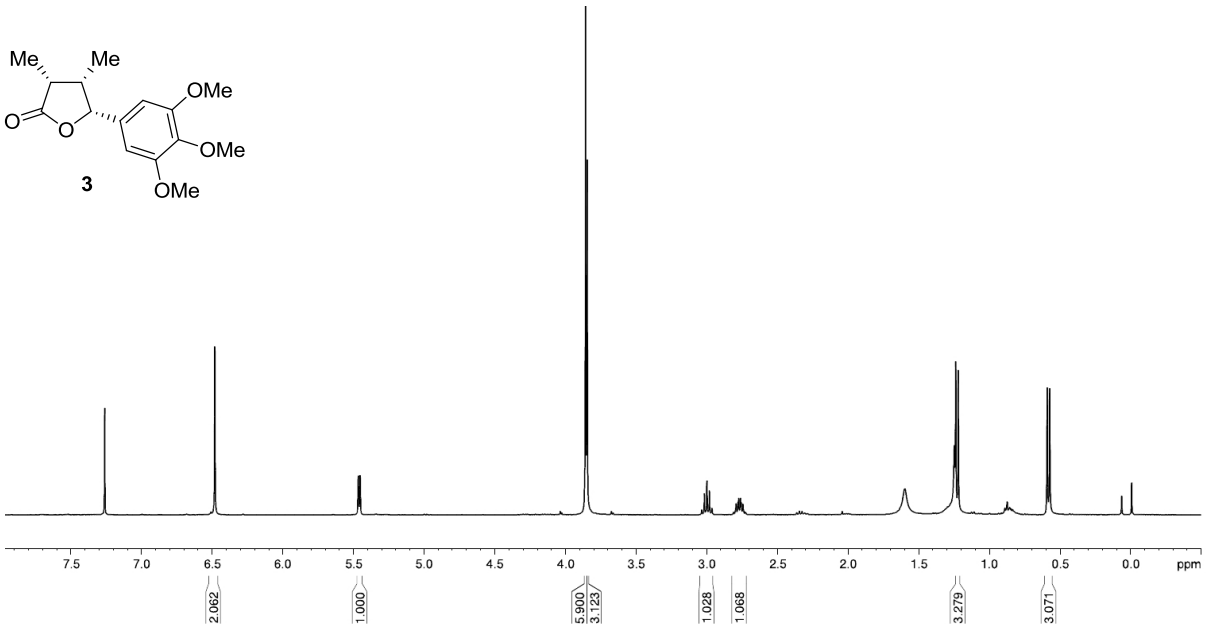
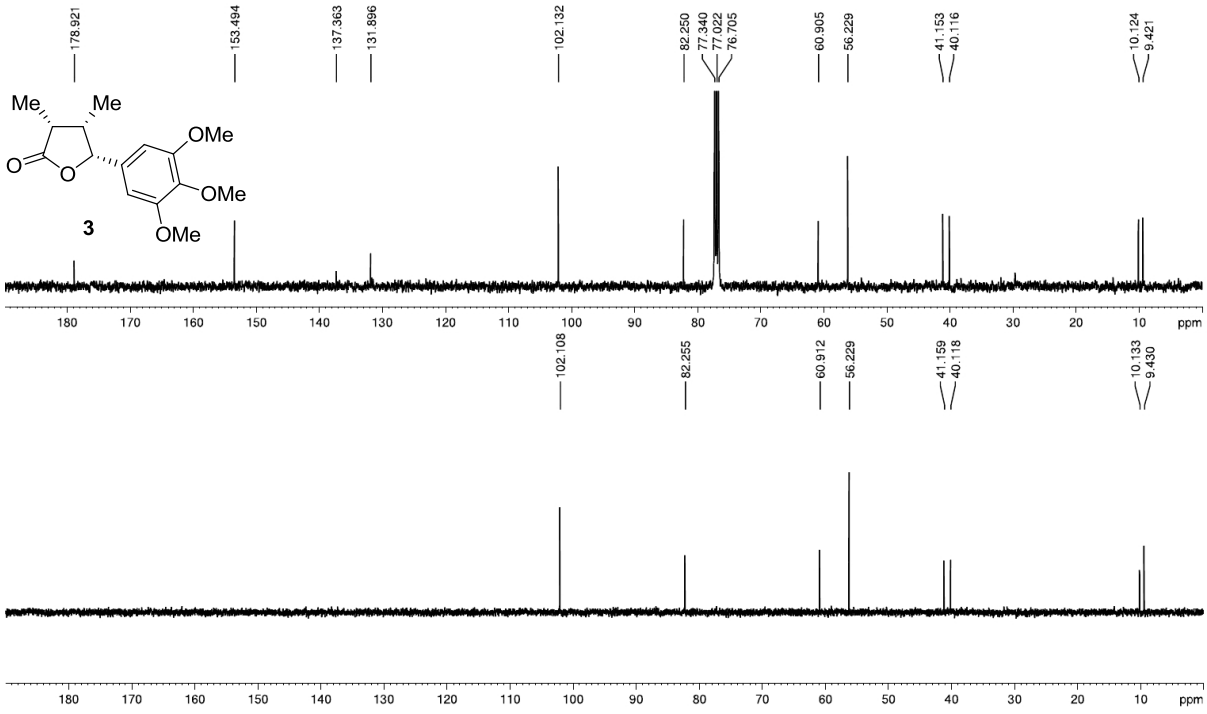
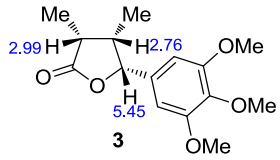


^{13}C NMR spectrum of **3** (100 MHz, $CDCl_3$)



NOE spectrum of **3** (500 MHz, $CDCl_3$)



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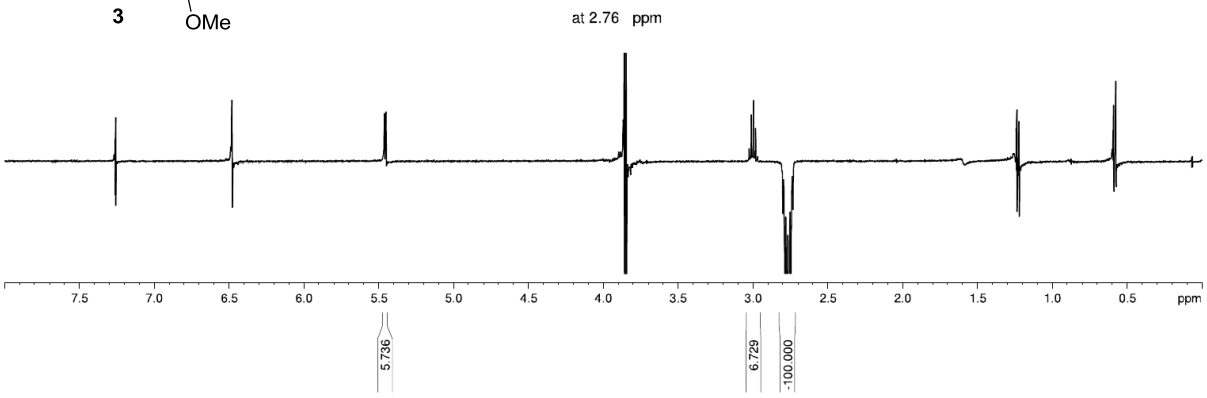
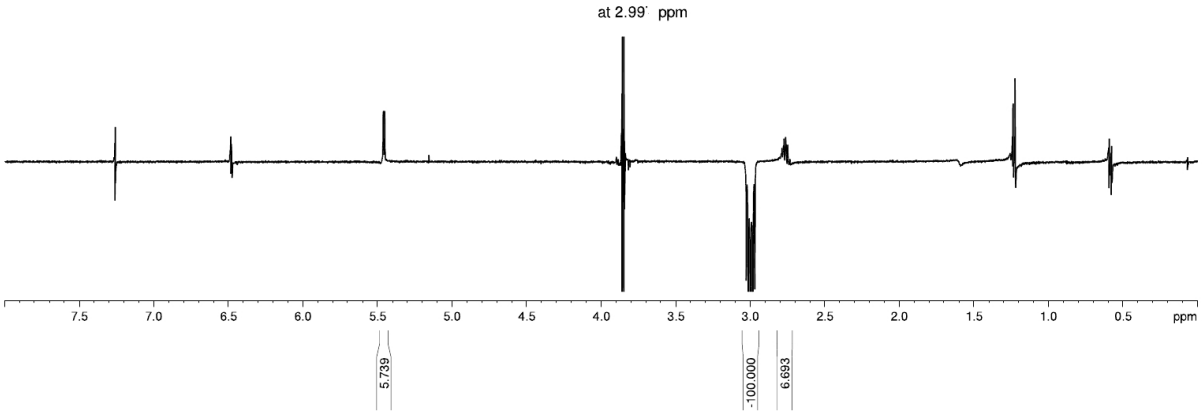
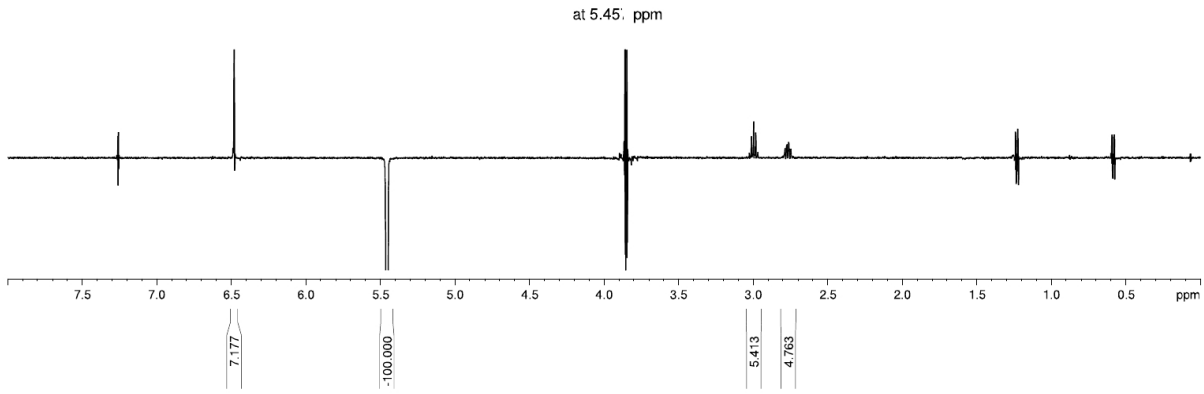
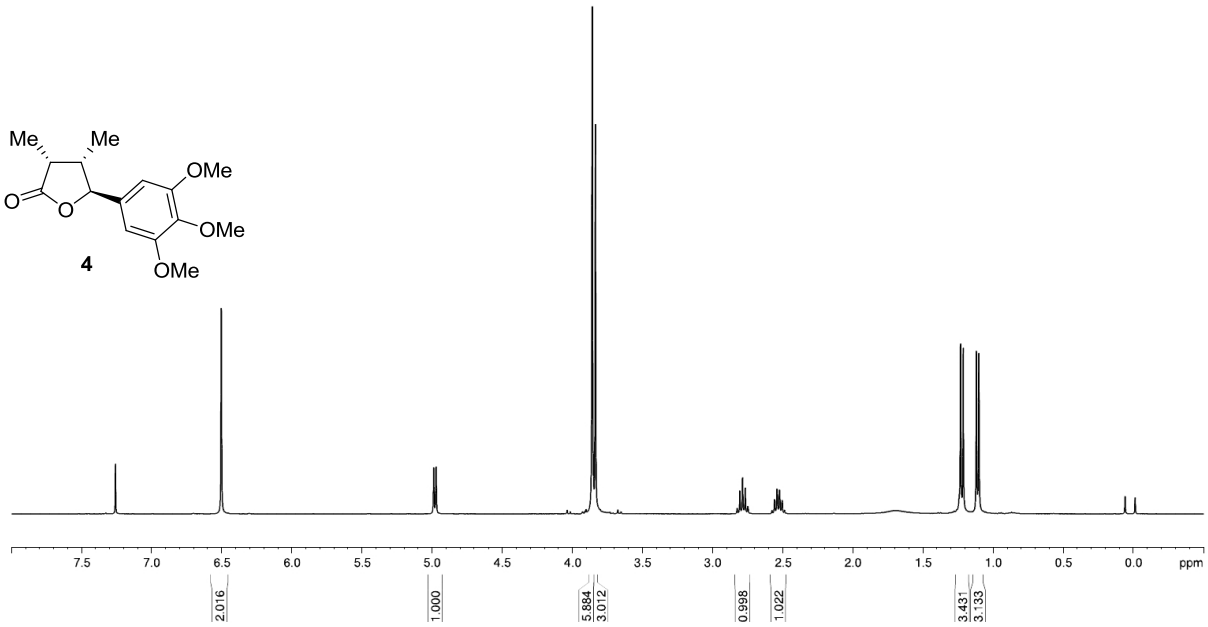


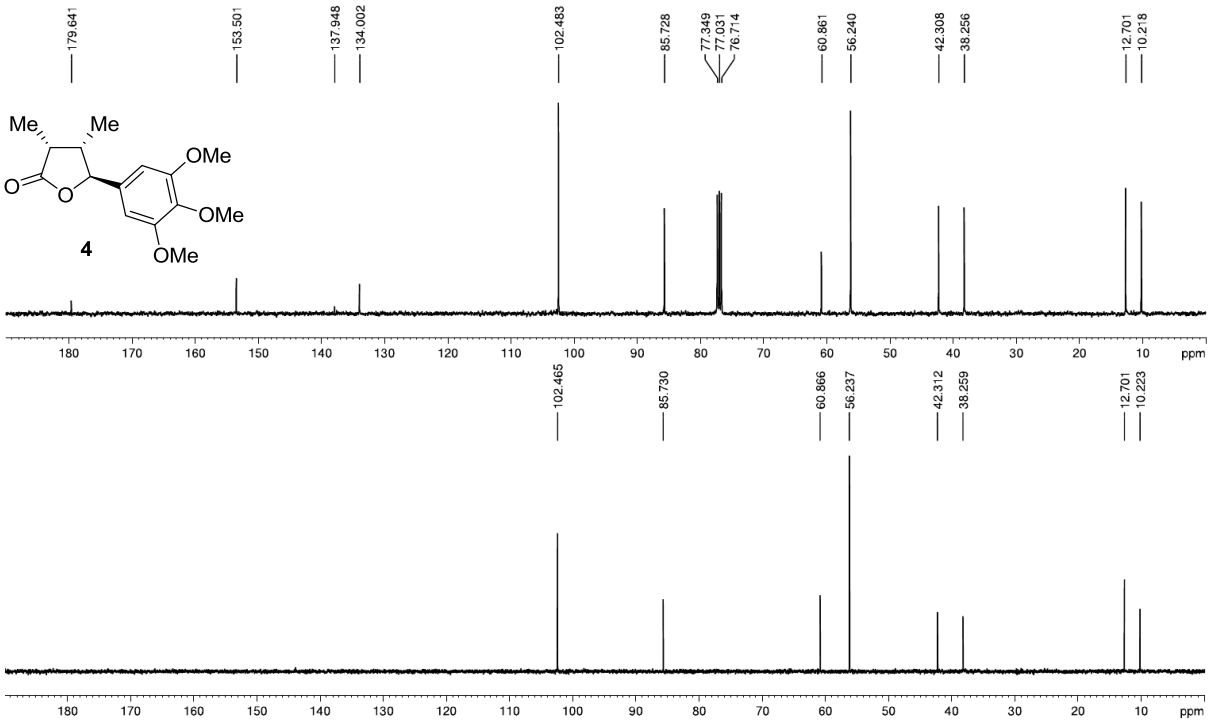




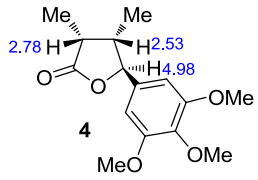
^{1}H NMR spectrum of **4** (400 MHz, $CDCl_3$)

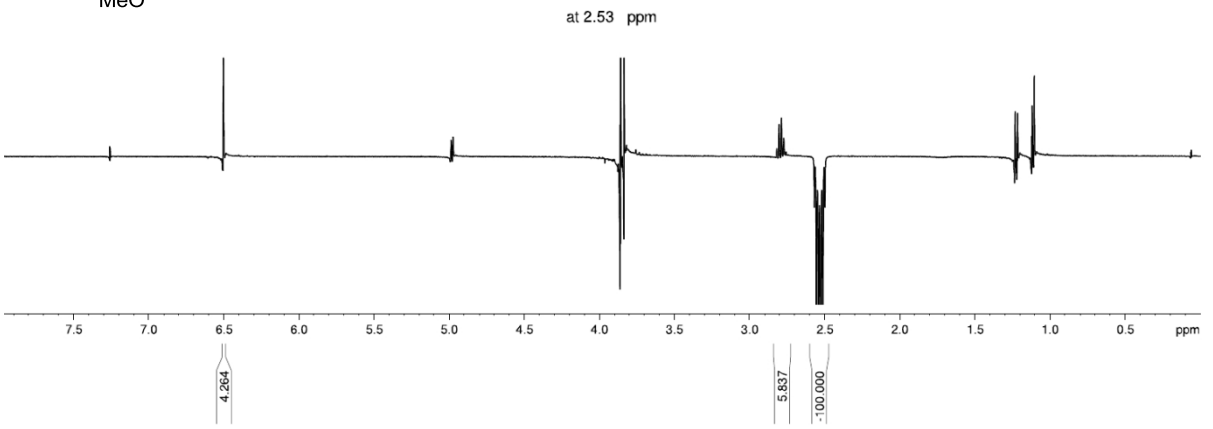


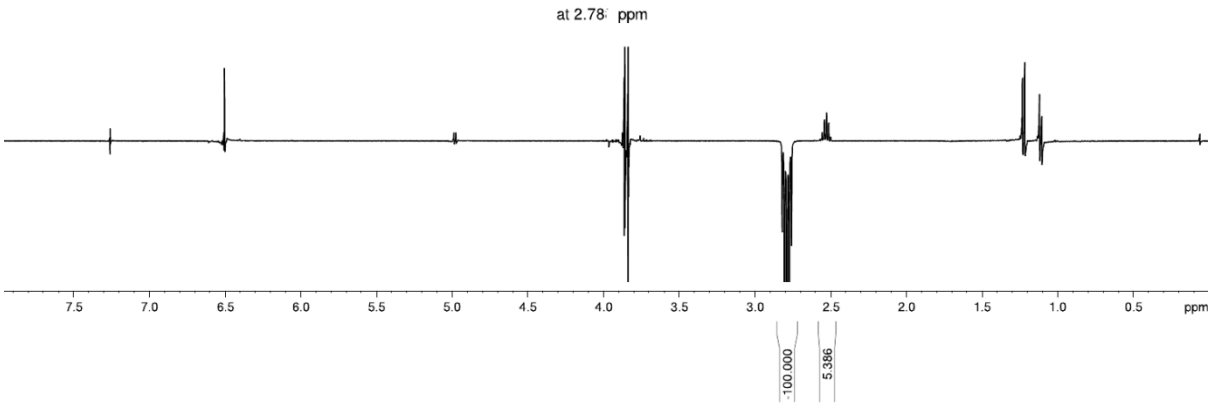
^{13}C NMR spectrum of **4** ($CDCl_3$)

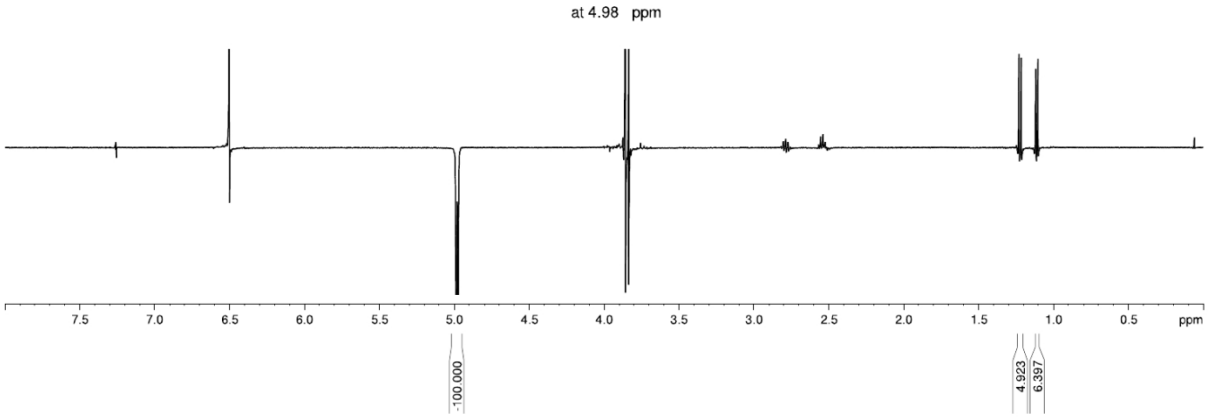


NOE spectrum of **4** (500 MHz, $CDCl_3$)

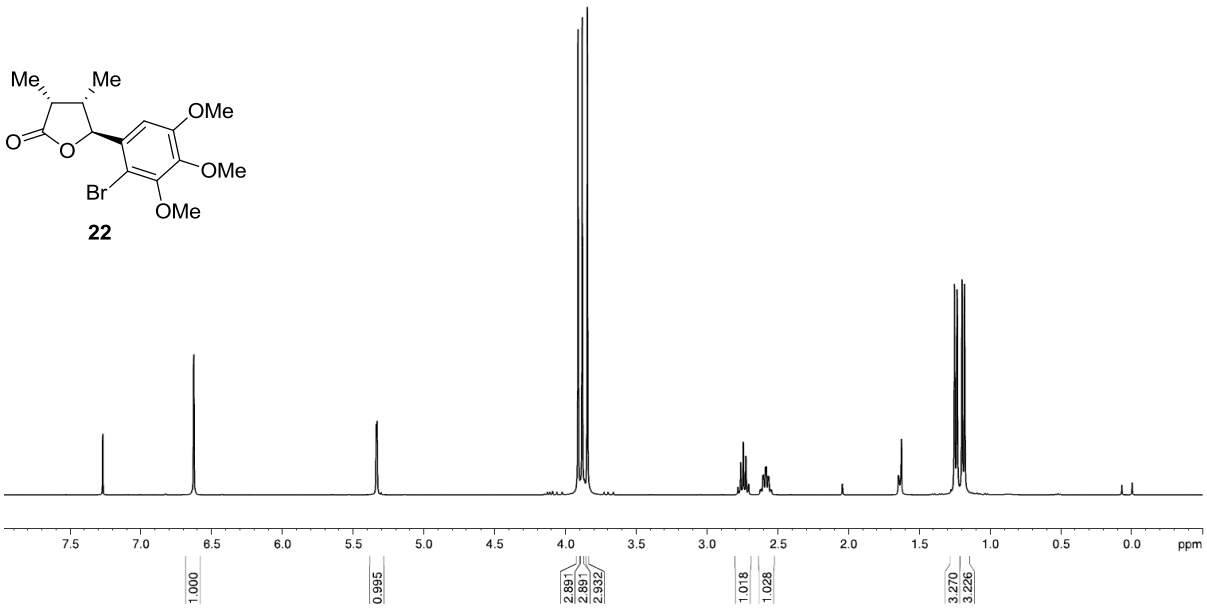








^{1}H NMR spectrum of **22** (400 MHz, $CDCl_3$)



^{13}C NMR spectrum of **22** (100 MHz, $CDCl_3$)