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Supporting Information for

CuBr₂-Catalyzed Diastereoselective Allylation of Six-Membered Lactols: Total Synthesis of Decytospolides A and B and their C6-Epimers

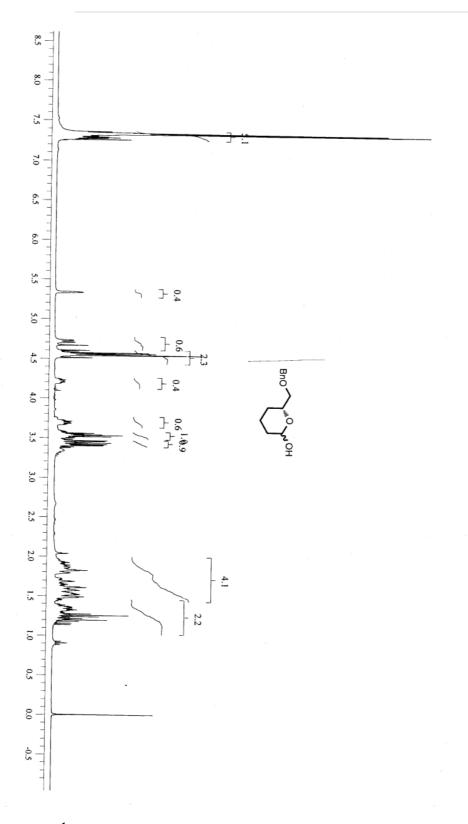
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Department of Organic Synthesis and Process Chemistry, CSIR-Indian Institute of Chemical Technology, Hyderabad 500007, India

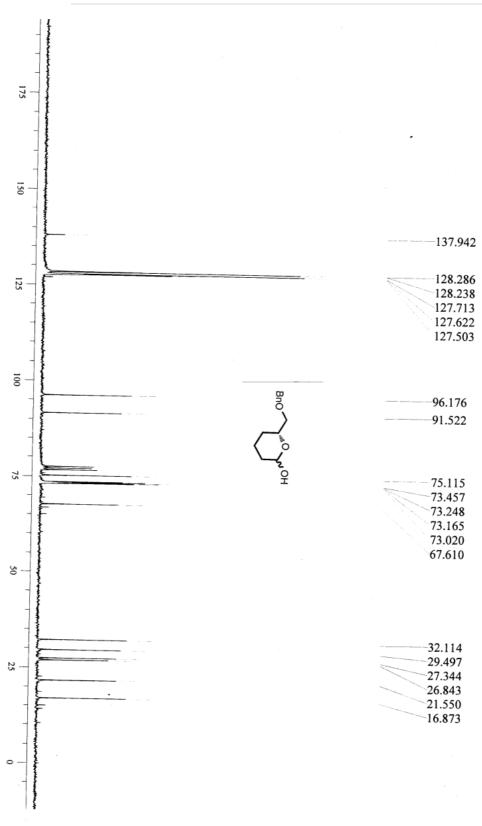
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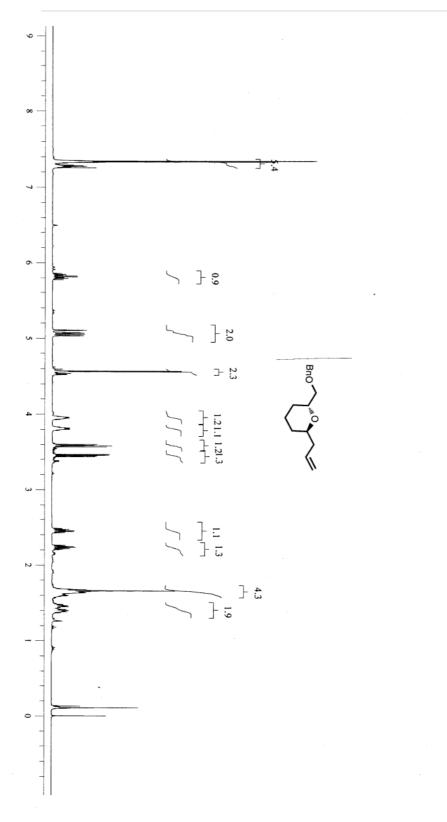
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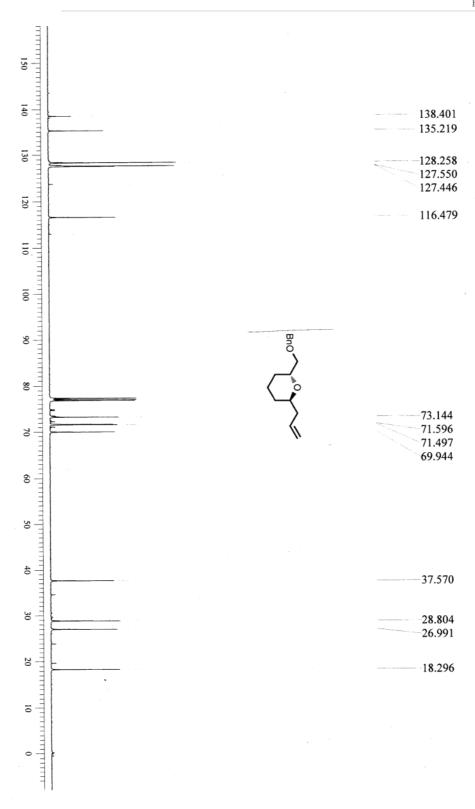
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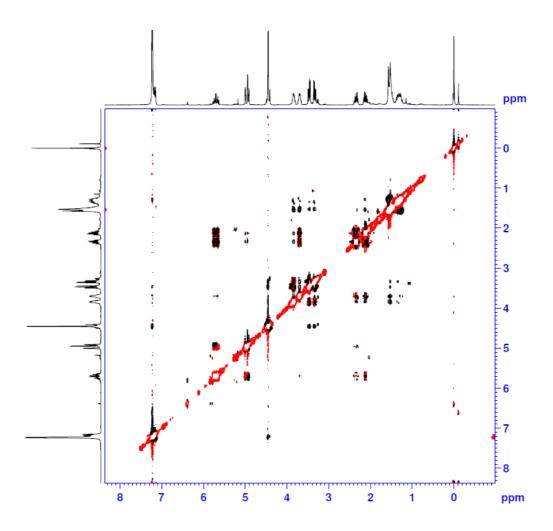
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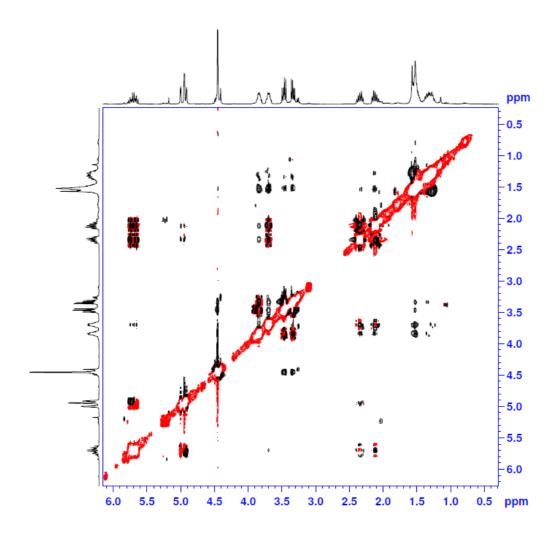
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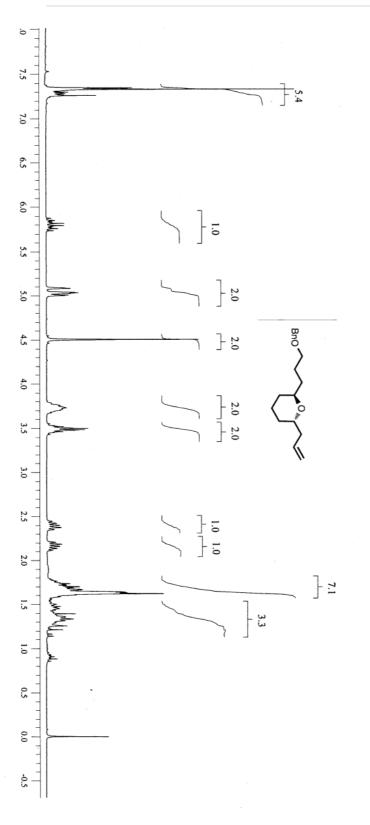
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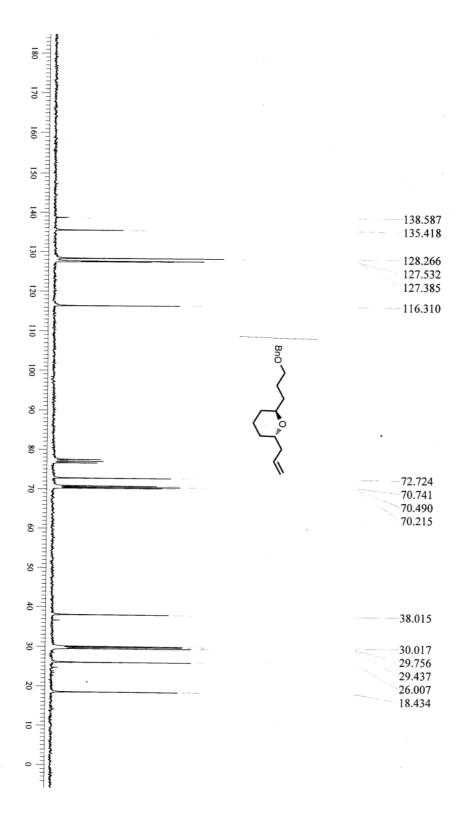
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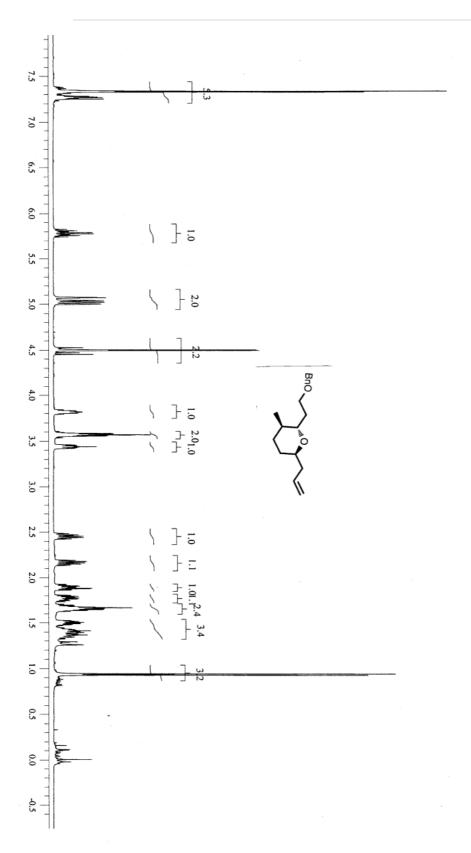
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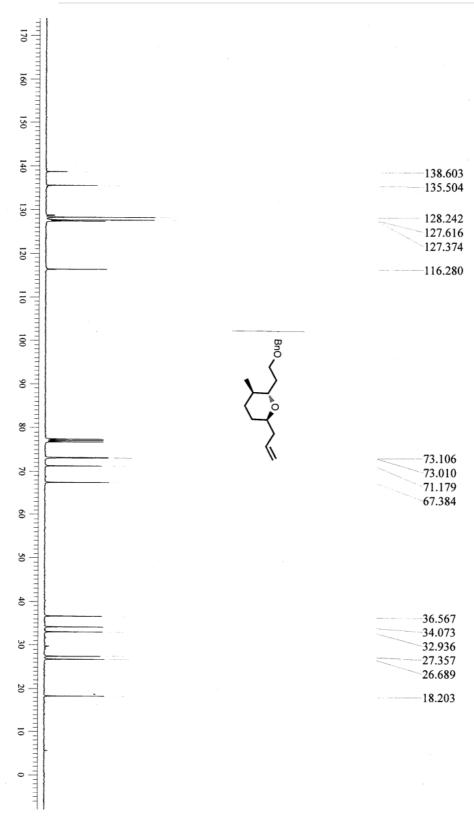
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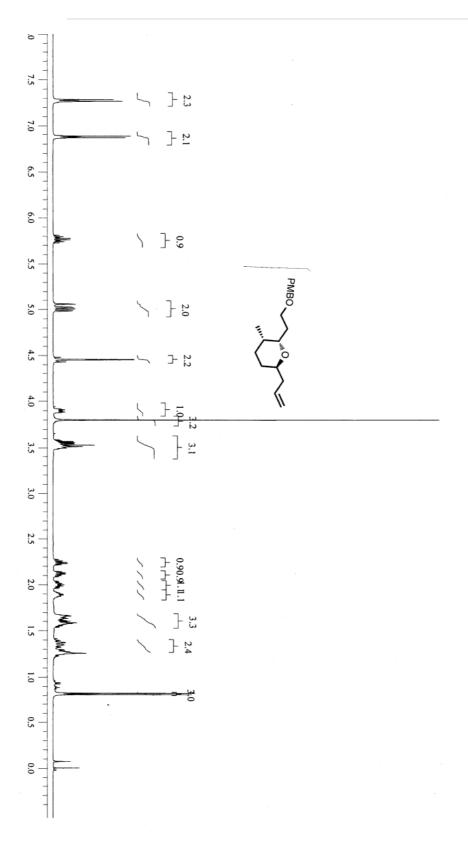
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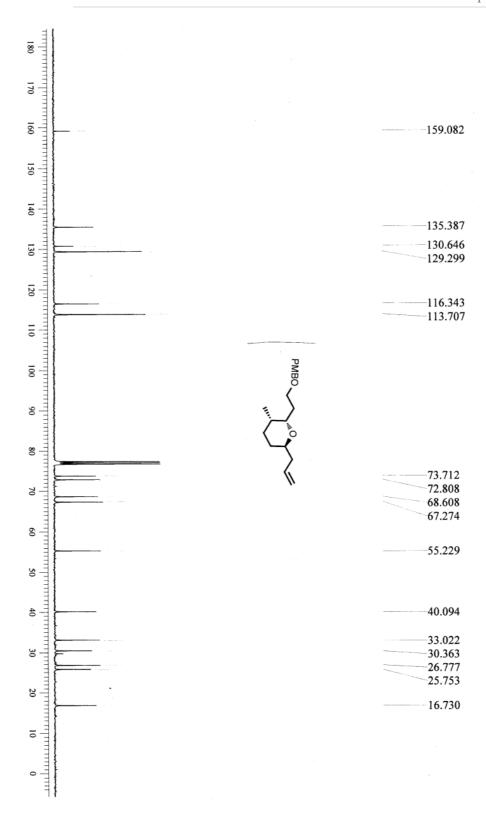
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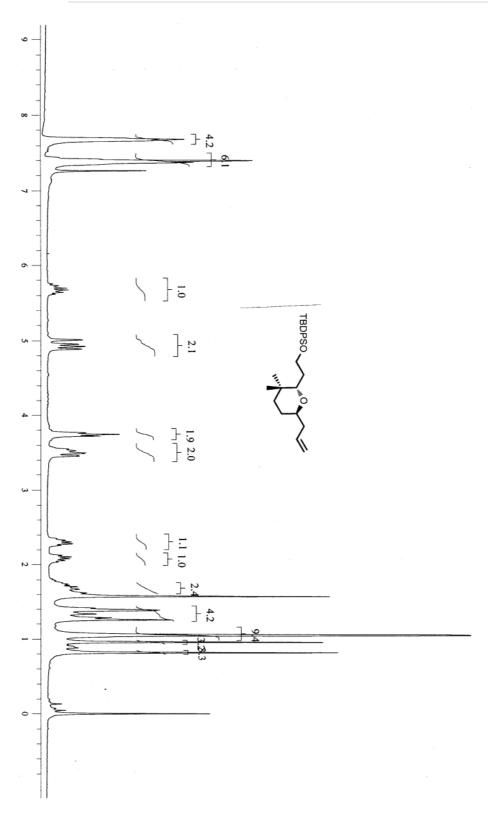
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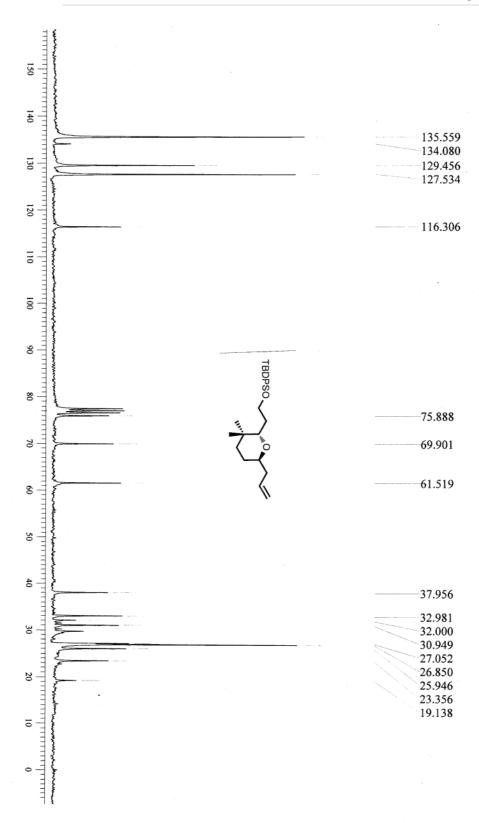
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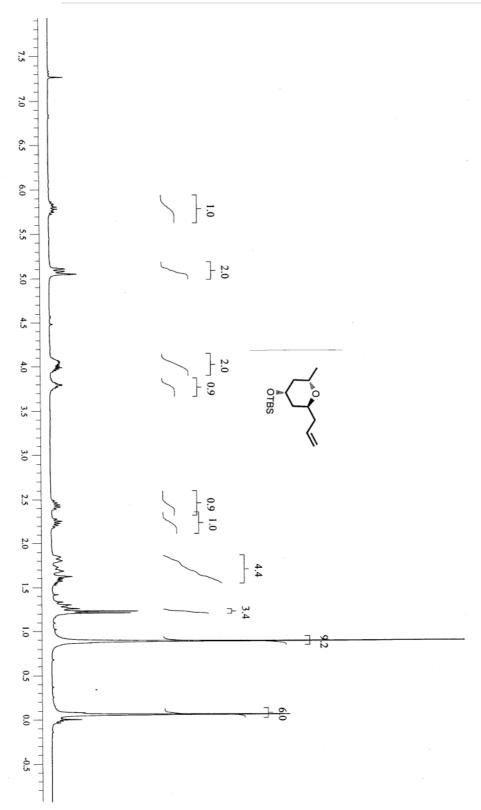
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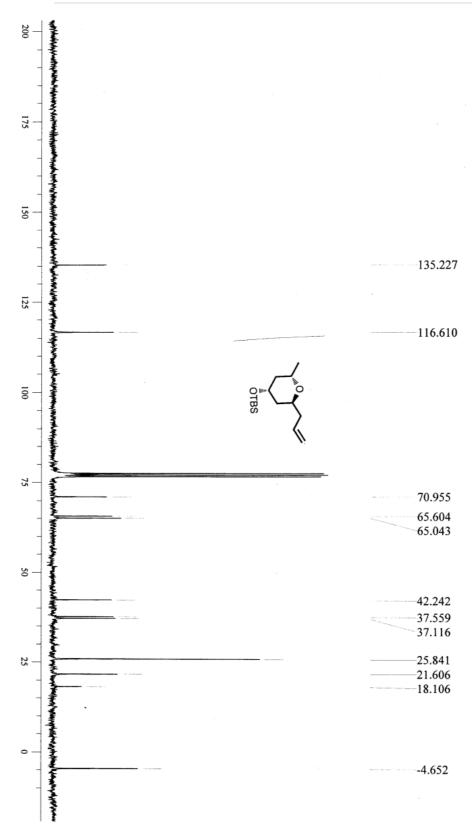
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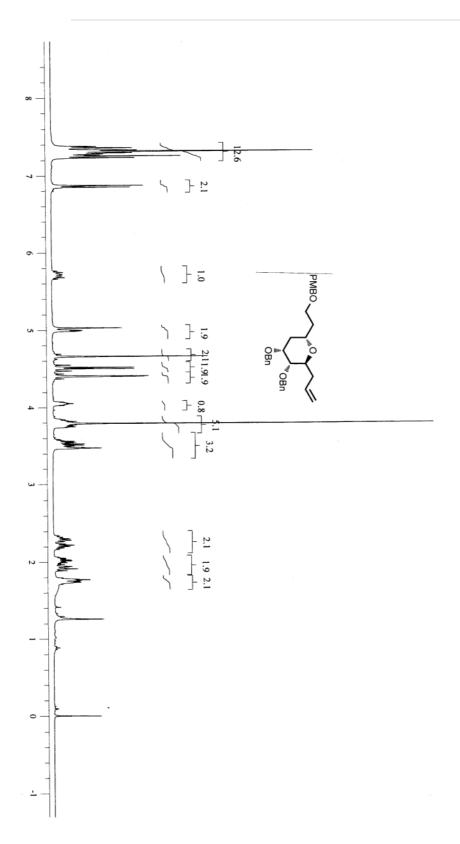
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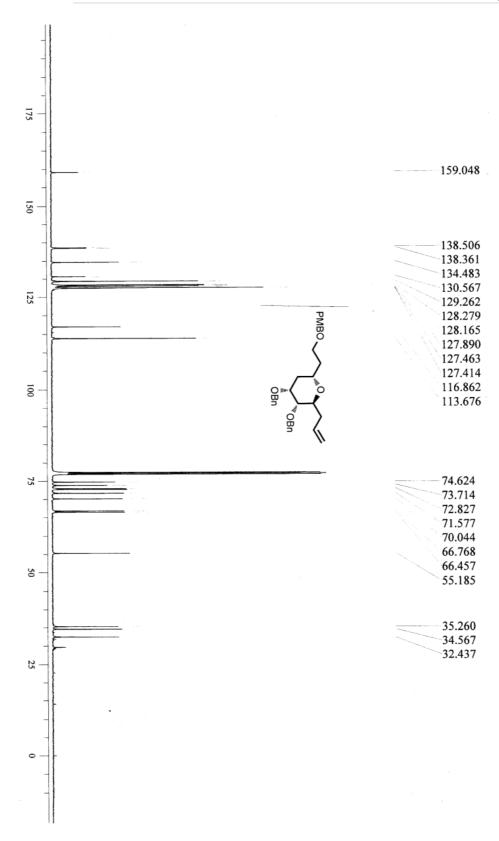
¹H NMR Spectrum of Compound 11e (300 MHz, CDCl₃)



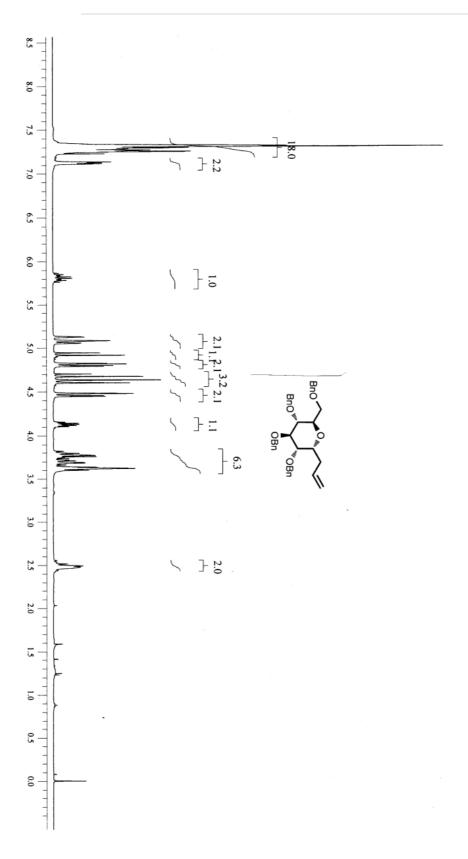
 ^{13}C NMR Spectrum of Compound 11e (75 MHz, CDCl3)



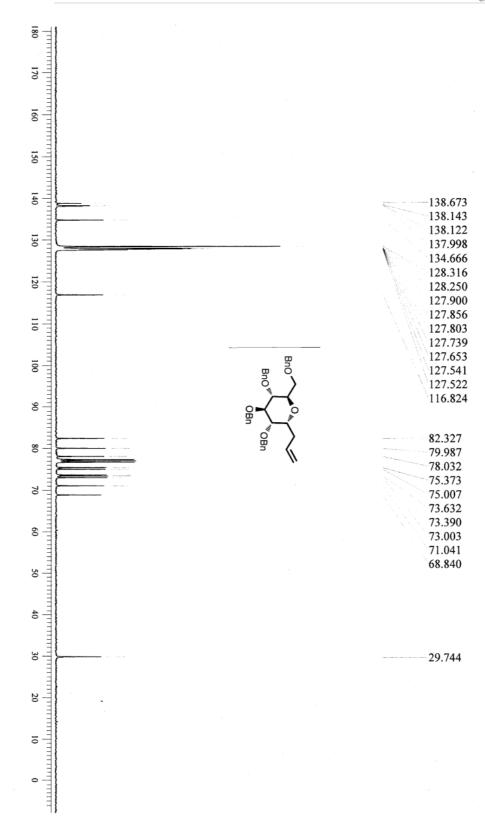
¹H NMR Spectrum of Compound 11f (400 MHz, CDCl₃)



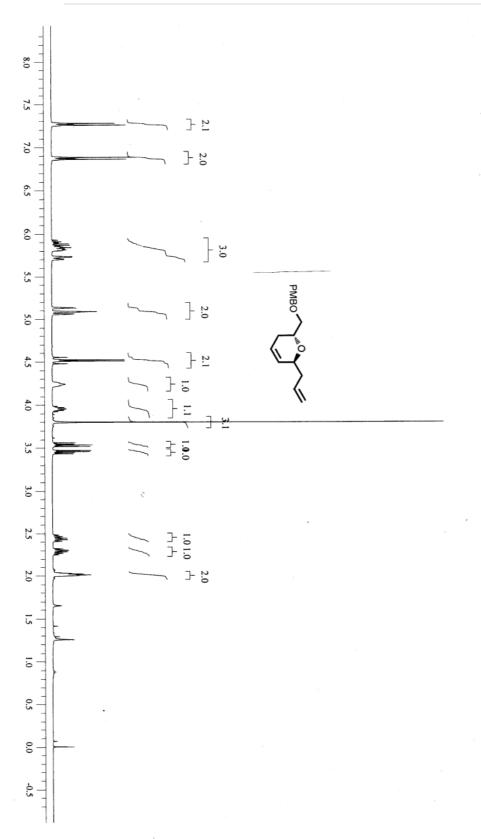
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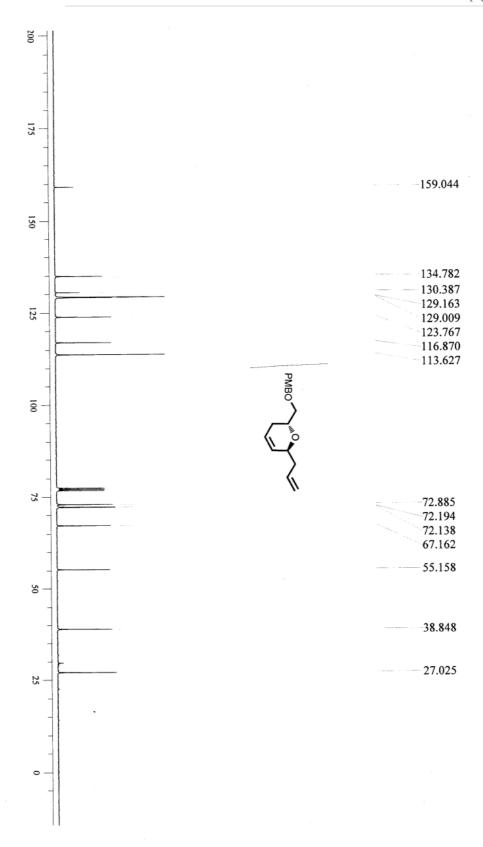
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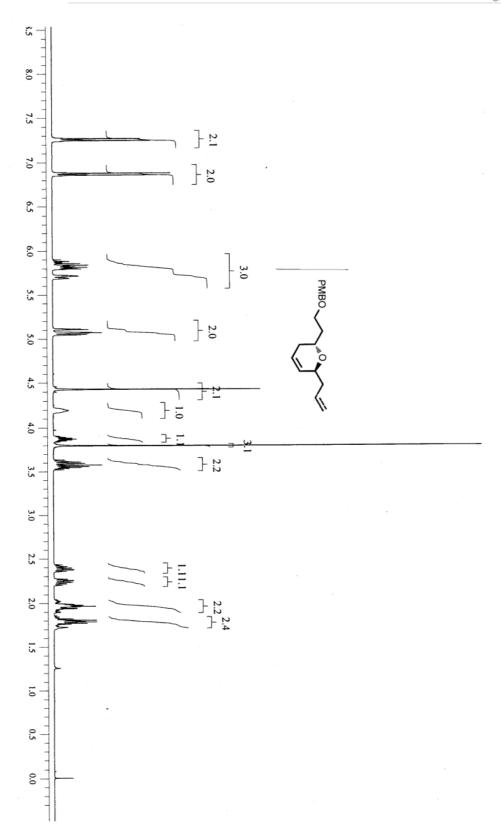
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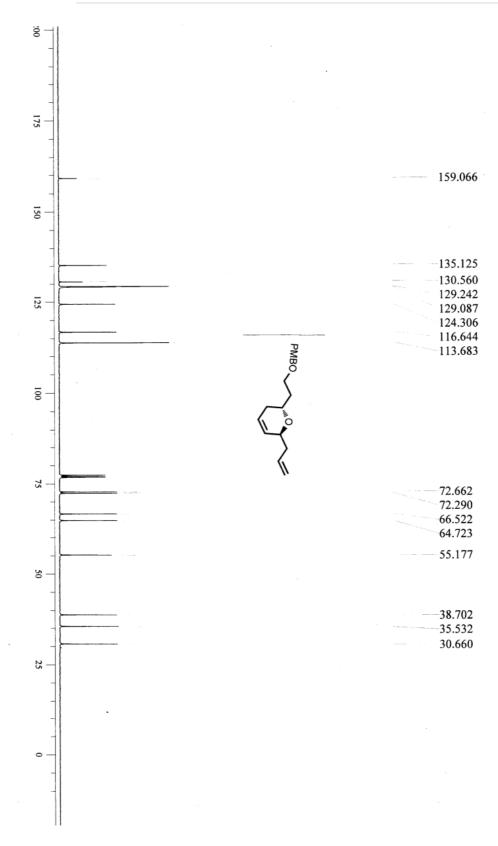
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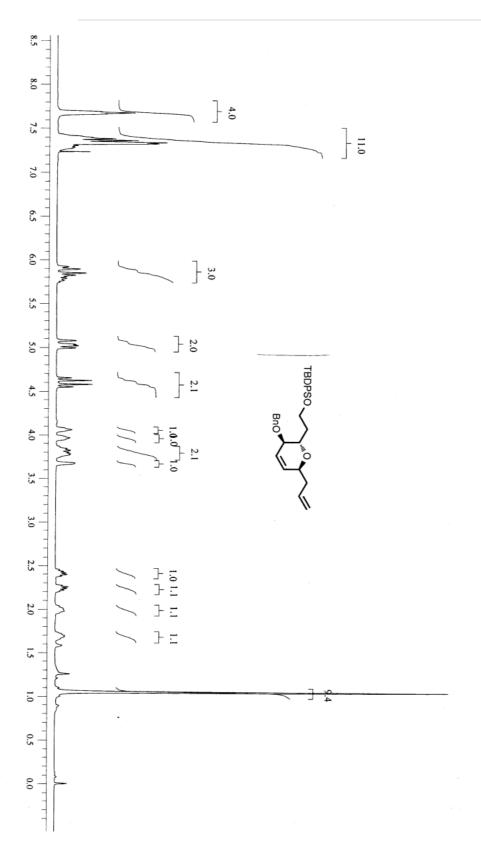
 $^{13}\mathrm{C}$ NMR Spectrum of Compound 11h (100 MHz, CDCl₃)



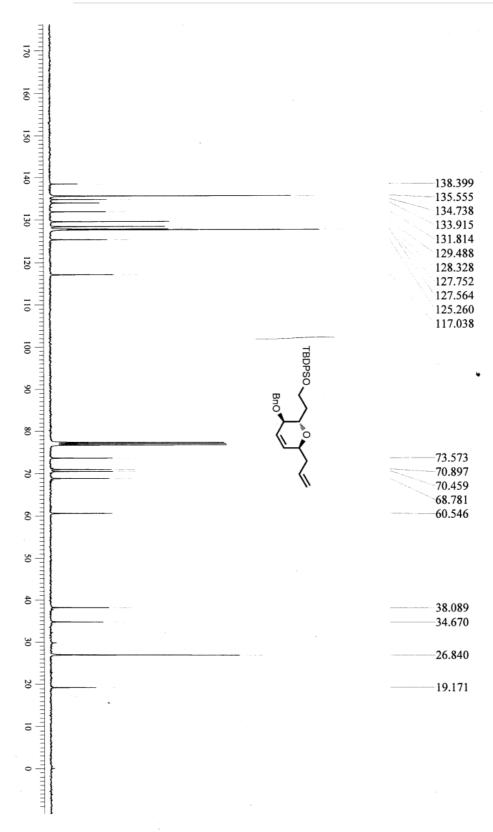
 ^{1}H NMR Spectrum of Compound 11i (400 MHz, CDCl $_{3}$)



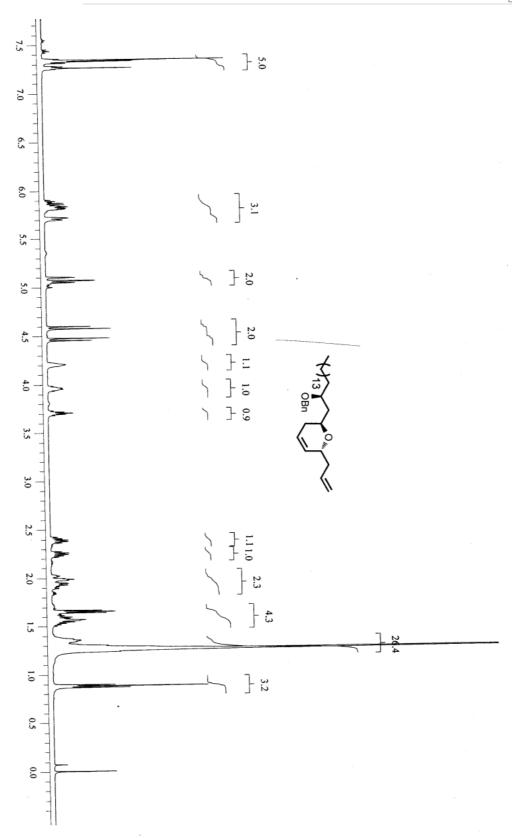
 ^{13}C NMR Spectrum of Compound 11i (100 MHz, CDCl3)



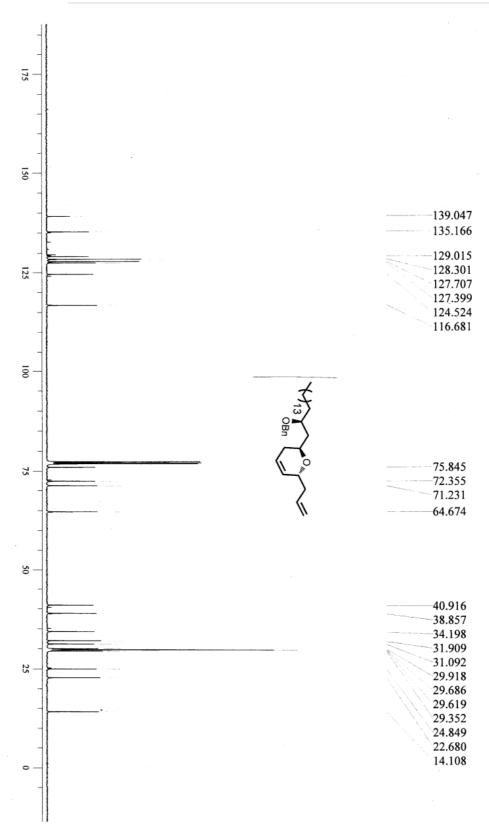
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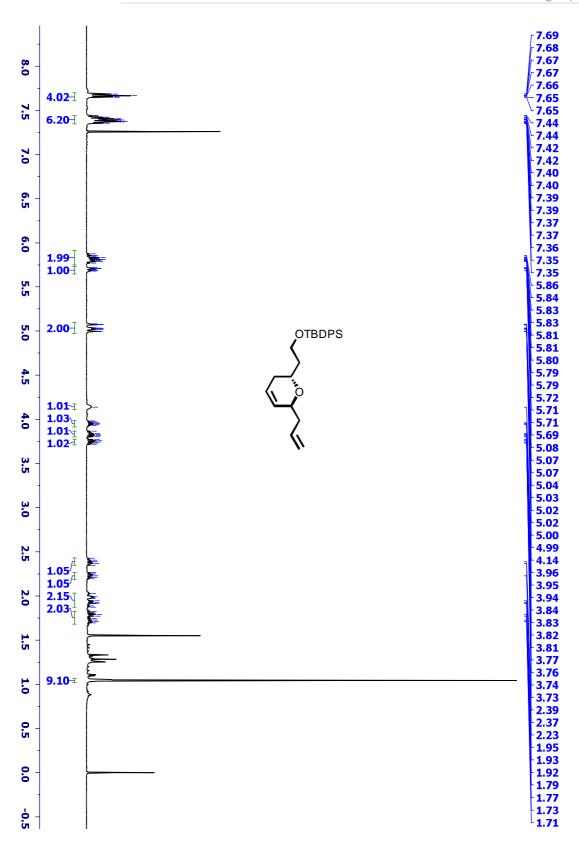
 $^{13} C$ NMR Spectrum of Compound 11j (100 MHz, CDCl3)



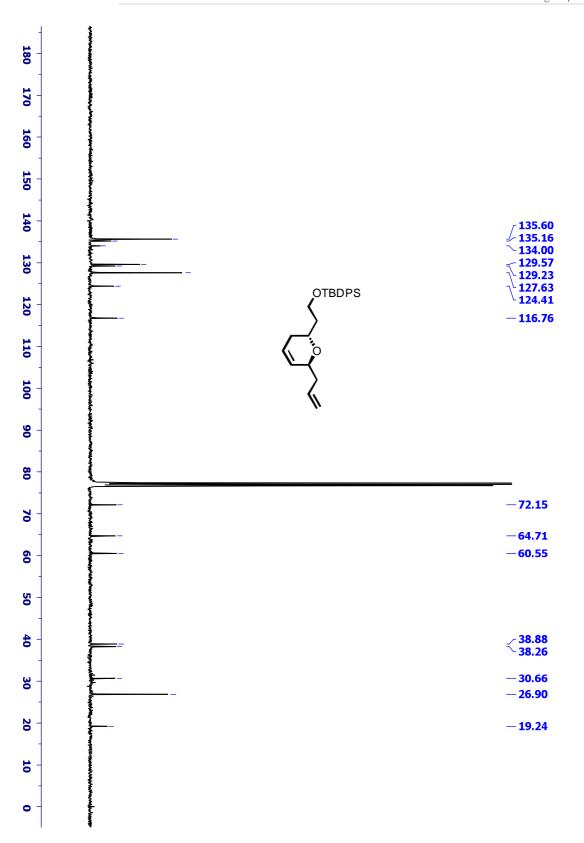
 ^{1}H NMR Spectrum of Compound 11k (500 MHz, CDCl₃)



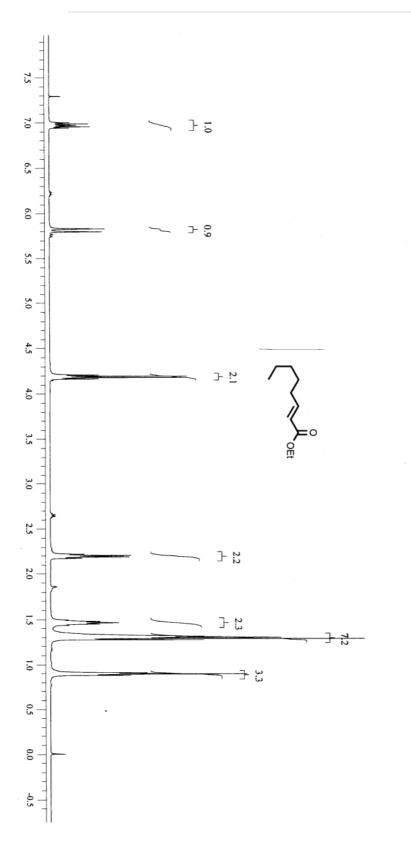
 ^{13}C NMR Spectrum of Compound 11k (125 MHz, CDCl₃)



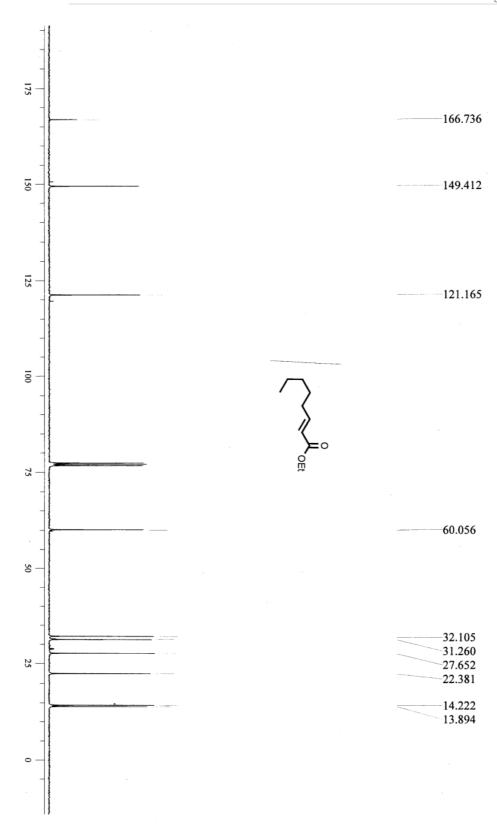
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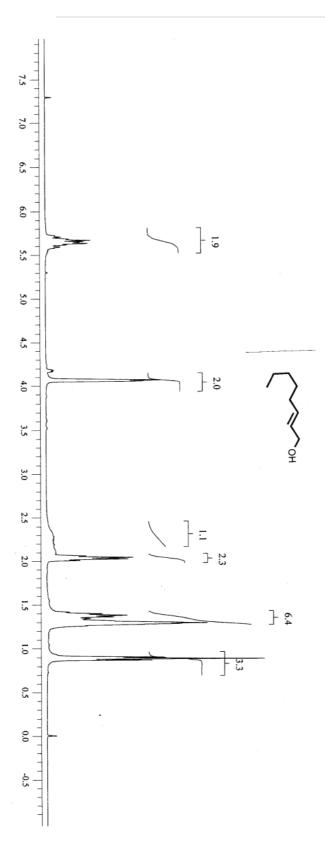
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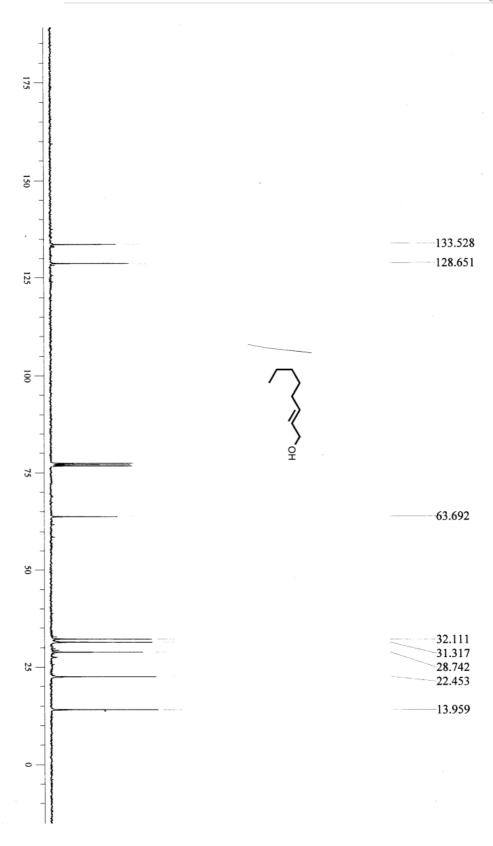
¹H NMR Spectrum of Compound 20 (500 MHz, CDCl₃)



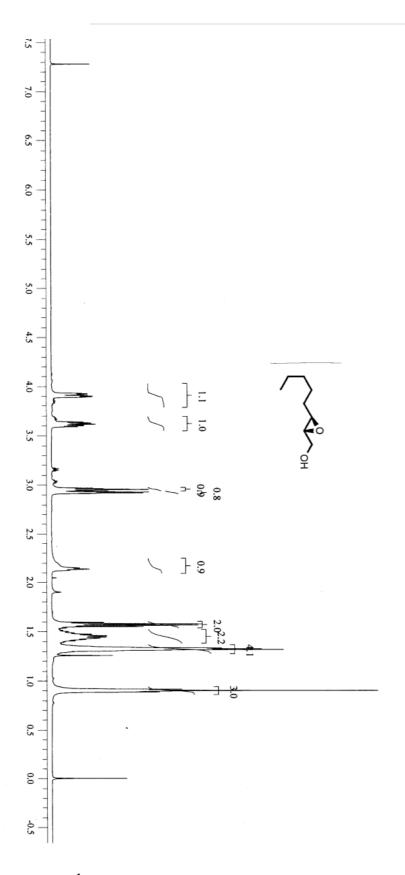
 ^{13}C NMR Spectrum of Compound 20 (100 MHz, CDCl3)



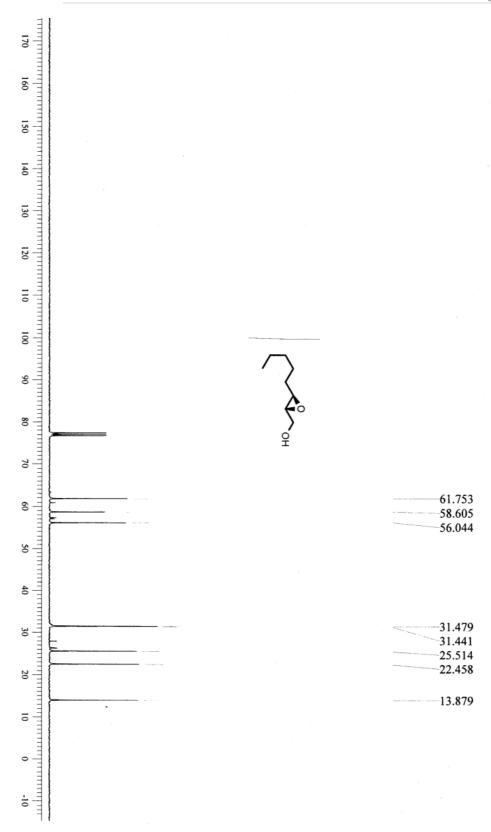
 ^{1}H NMR Spectrum of Compound 21 (400 MHz, CDCl₃)



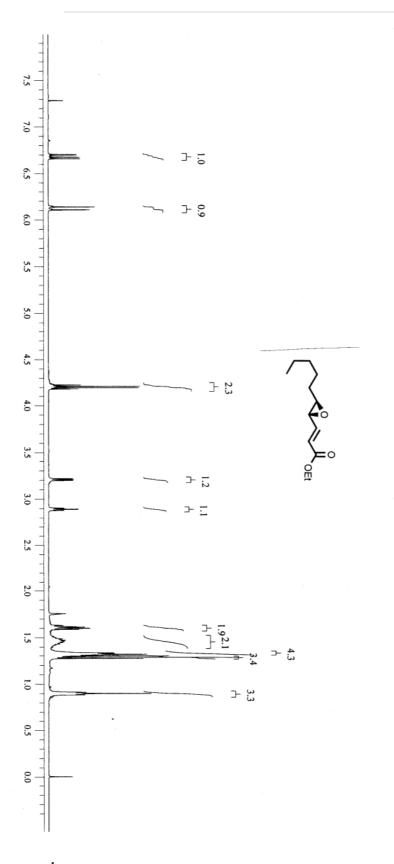
 ^{13}C NMR Spectrum of Compound 21 (100 MHz, CDCl3)



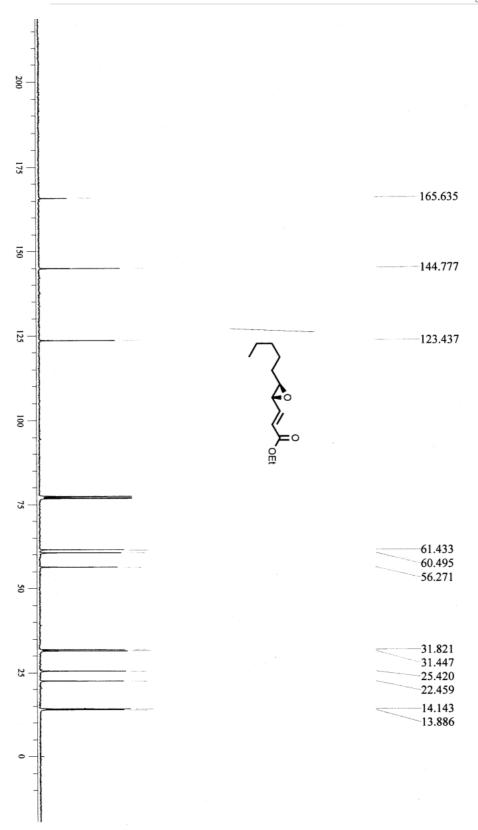
¹H NMR Spectrum of Compound 22 (500 MHz, CDCl₃)



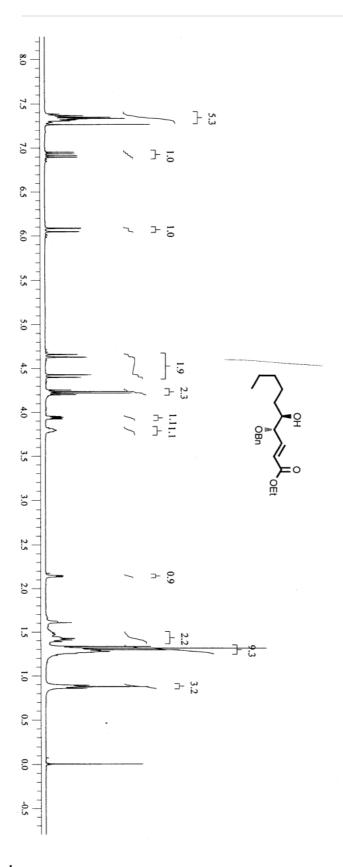
 ^{13}C NMR Spectrum of Compound 22 (125 MHz, CDCl3)



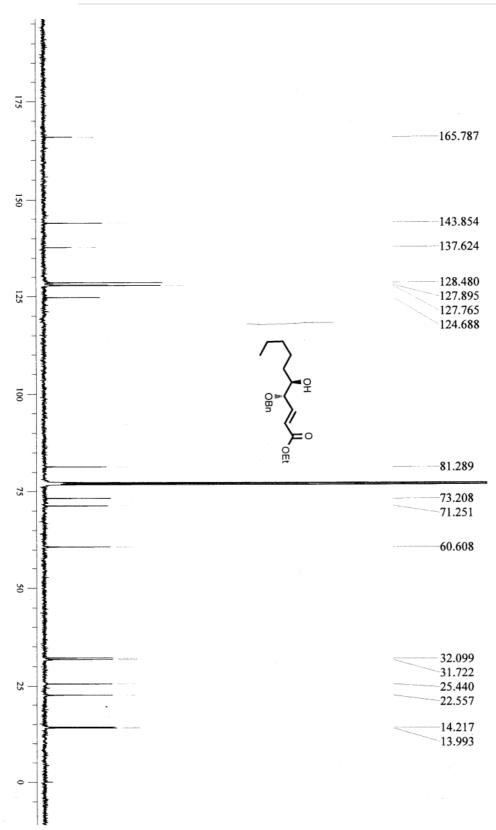
¹H NMR Spectrum of Compound 23 (500 MHz, CDCl₃)



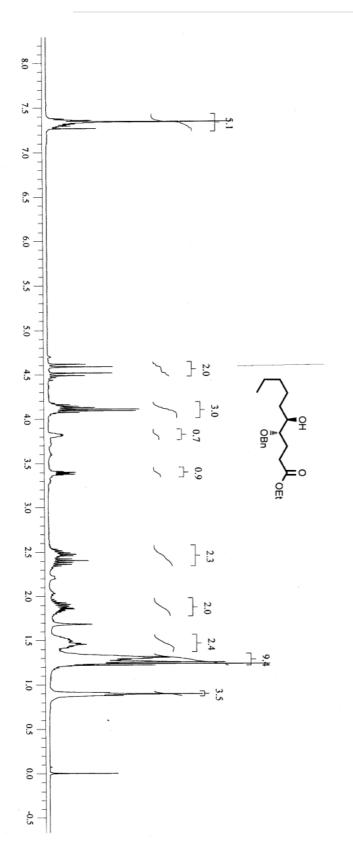
 ^{13}C NMR Spectrum of Compound 23 (100 MHz, CDCl $_{\!3})$



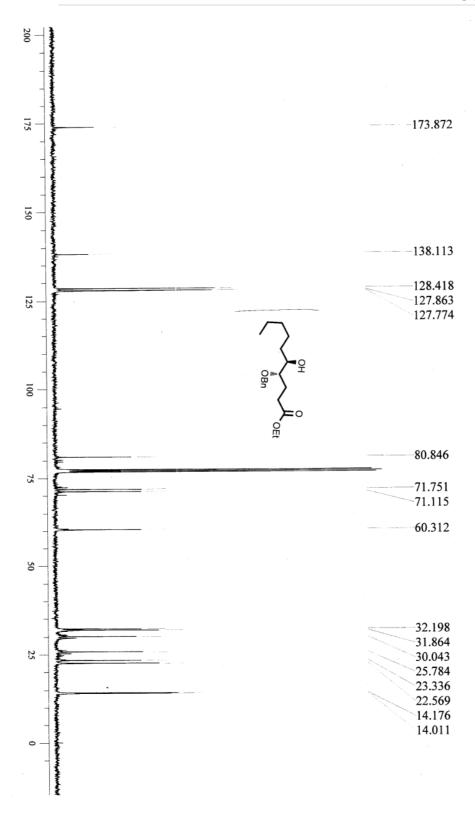
¹H NMR Spectrum of Compound 18 (400 MHz, CDCl₃)



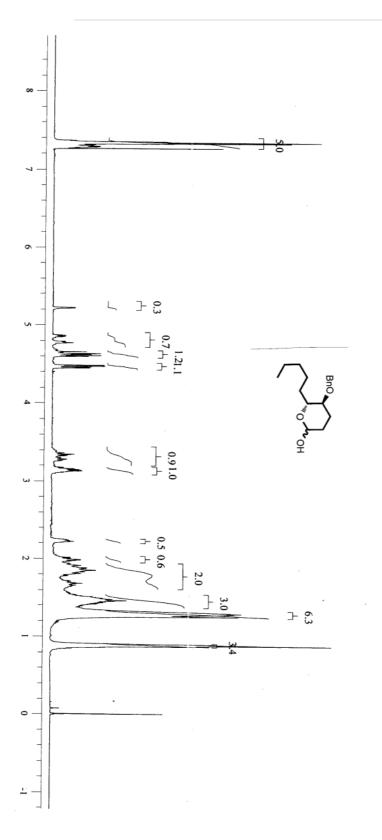
 ^{13}C NMR Spectrum of Compound 18 (125 MHz, CDCl3)



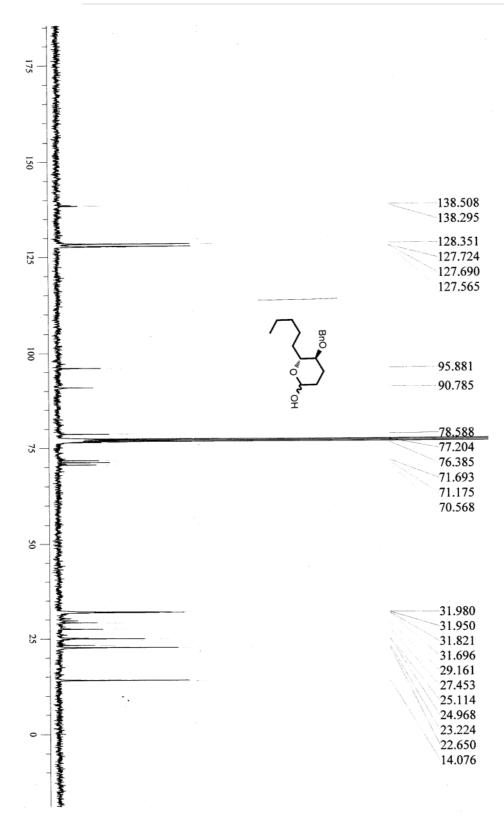
 $^1\!H$ NMR Spectrum of Compound 24 (400 MHz, CDCl₃)



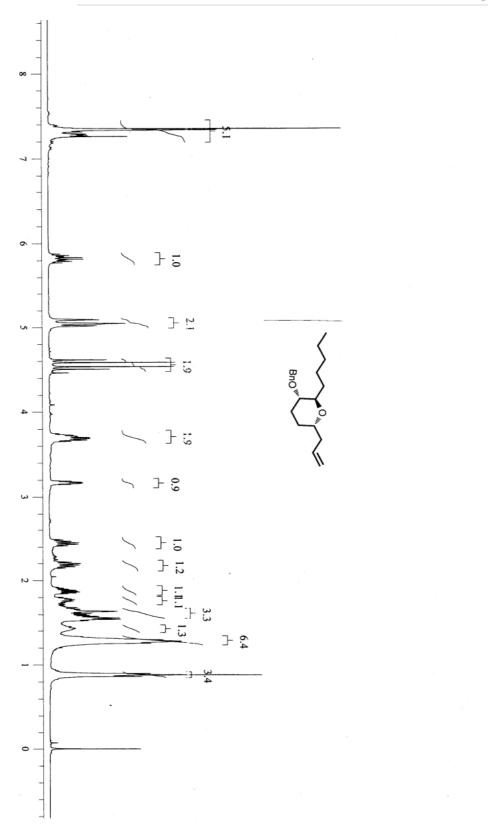
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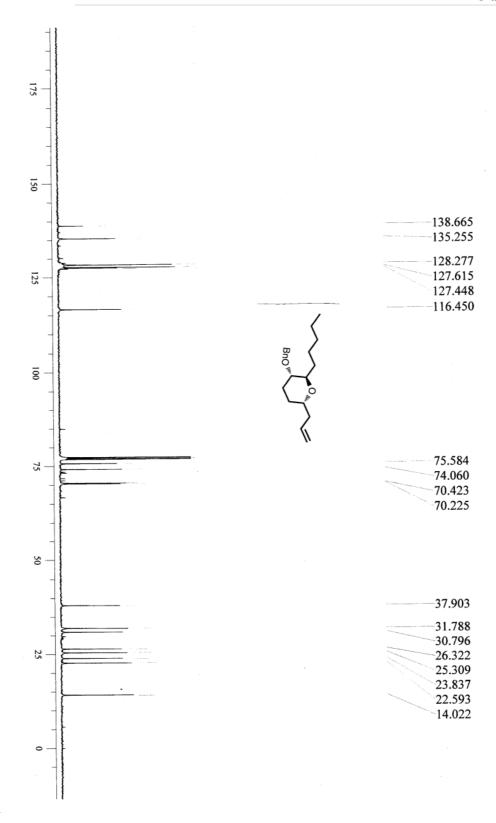
 ^{1}H NMR Spectrum of Compound 10m (500 MHz, CDCl $_{3}$)



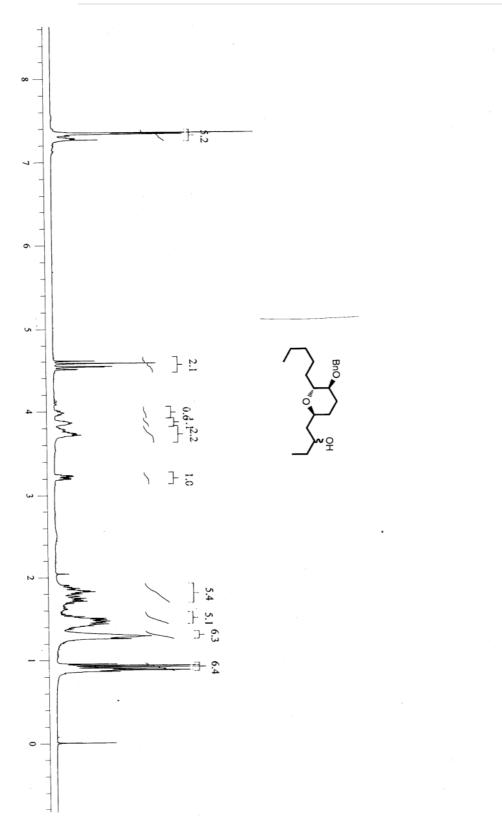
 $^{13}\text{C NMR}$ Spectrum of Compound 10m (100 MHz, CDCl3)



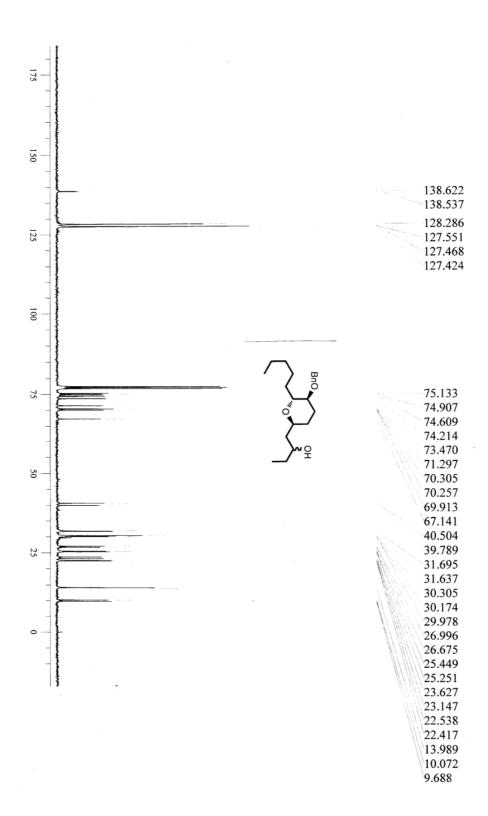
 ^{1}H NMR Spectrum of Compound 11m (400 MHz, CDCl $_{3}$)



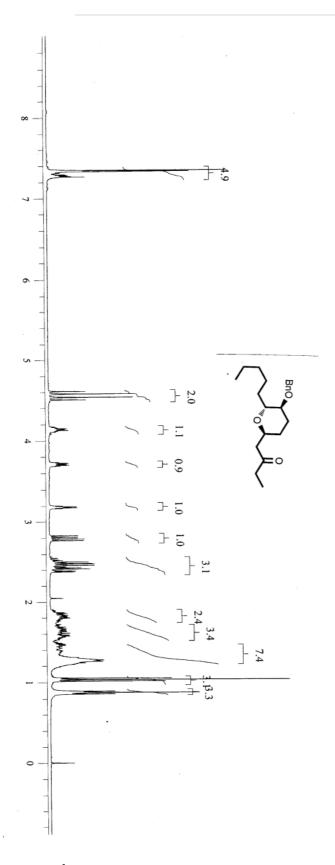
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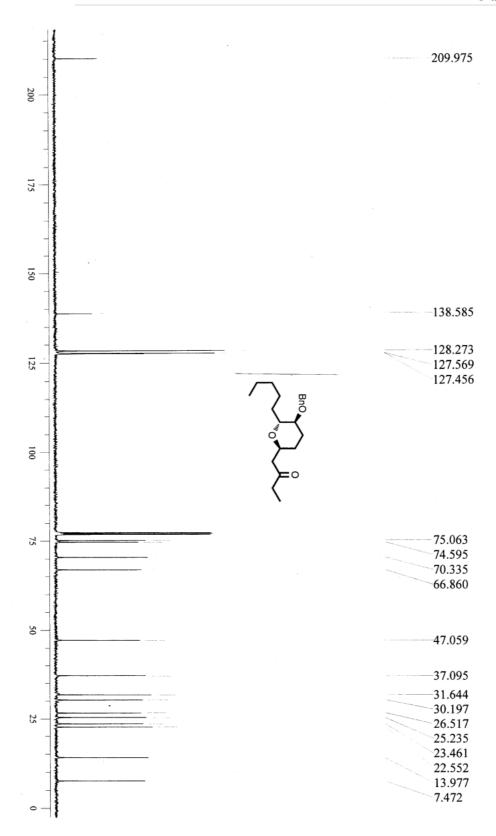
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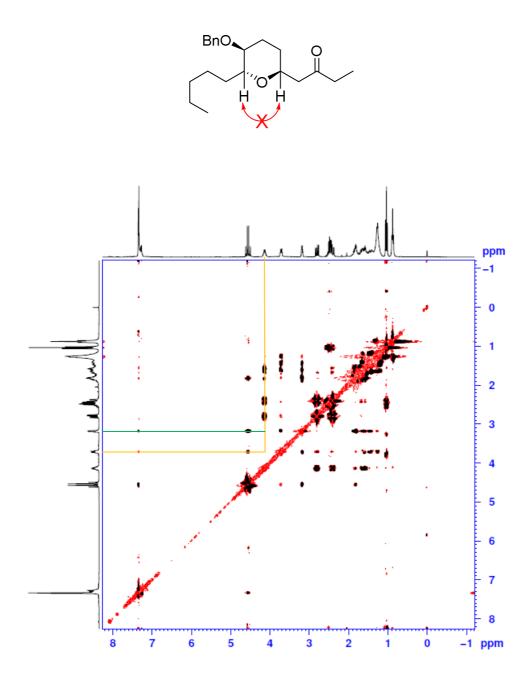
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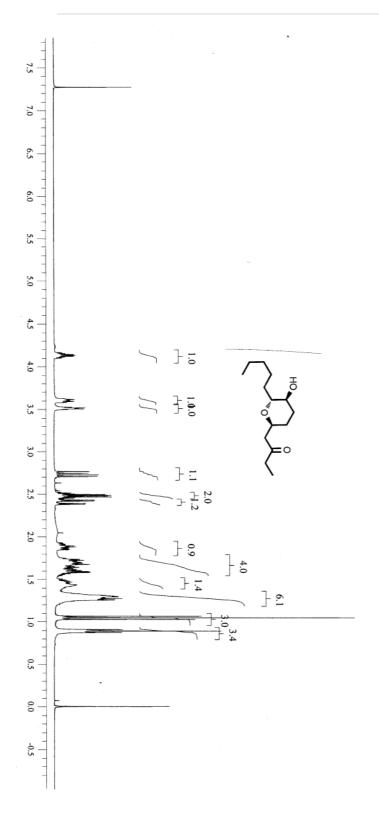
 ^{1}H NMR Spectrum of Compound 17 (400 MHz, CDCl₃)



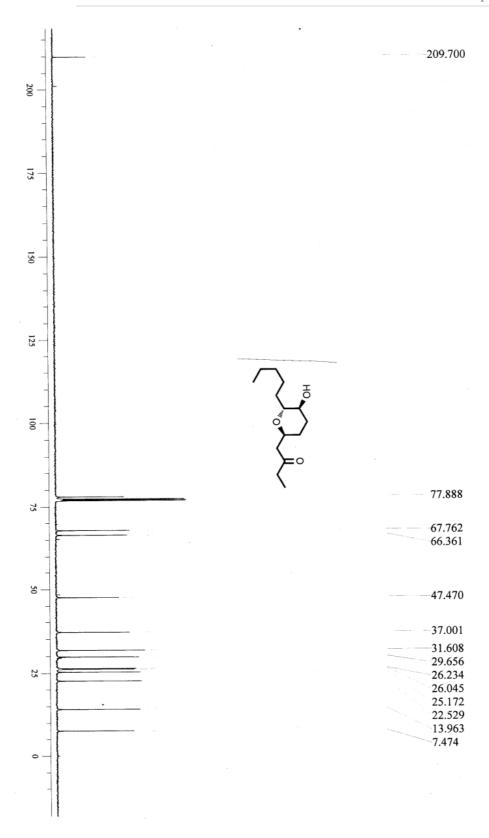
 ^{13}C NMR Spectrum of Compound 17 (125 MHz, CDCl $_{\!3})$



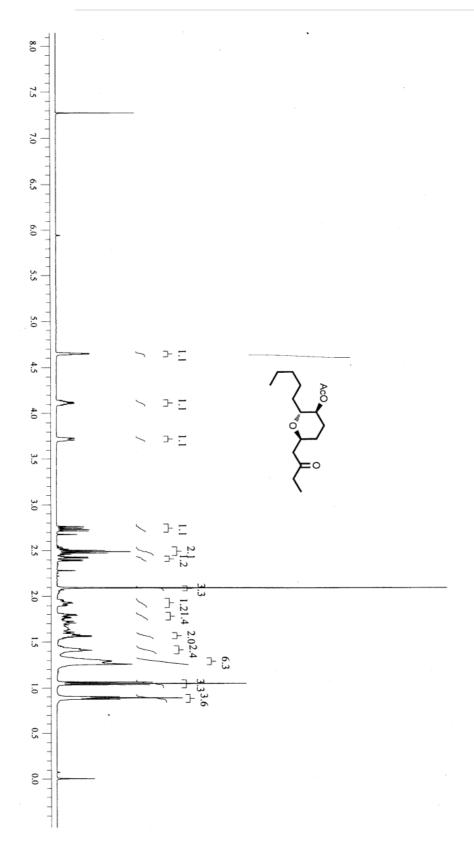
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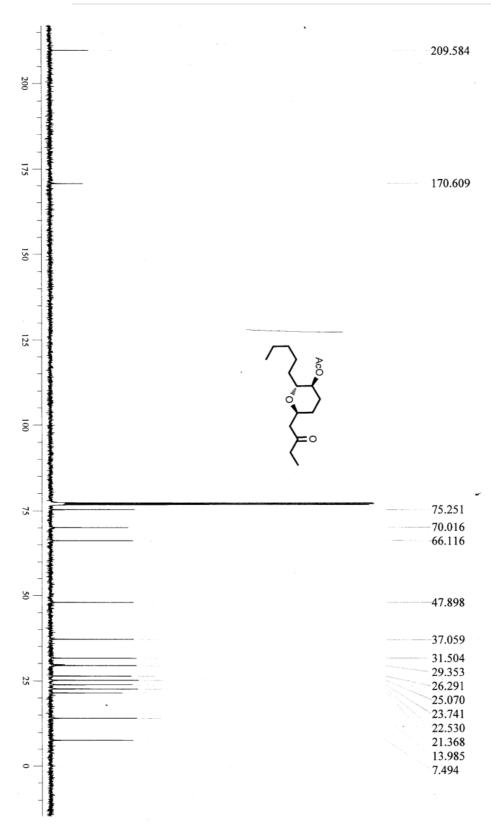
¹H NMR Spectrum of Compound 14 (400 MHz, CDCl₃)



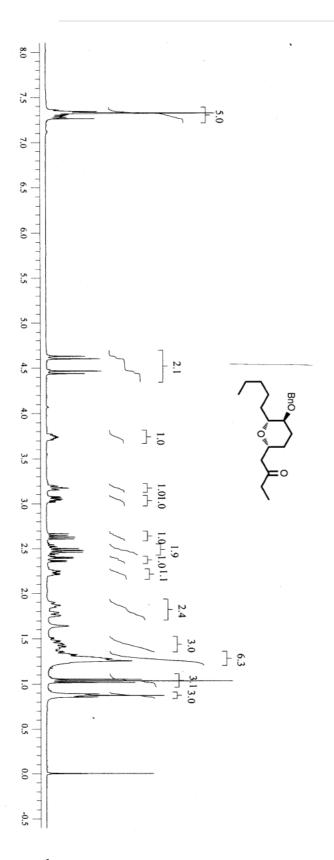
 ^{13}C NMR Spectrum of Compound 14 (125 MHz, CDCl₃)



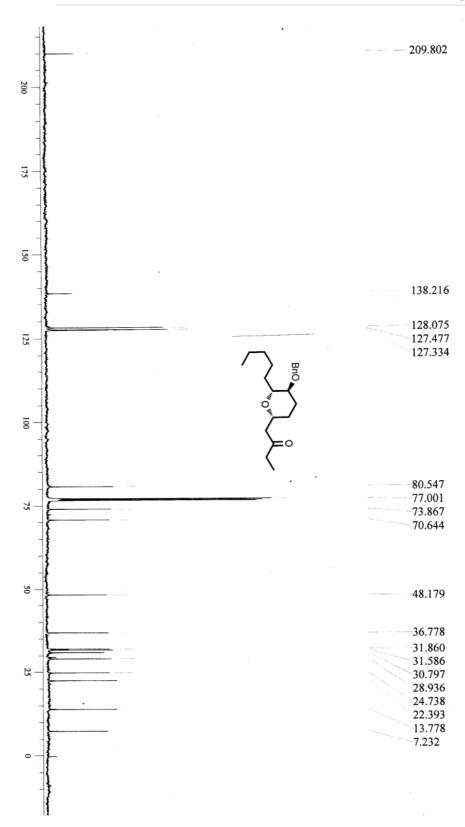
 $^1\!H$ NMR Spectrum of Compound 15 (500 MHz, CDCl₃)



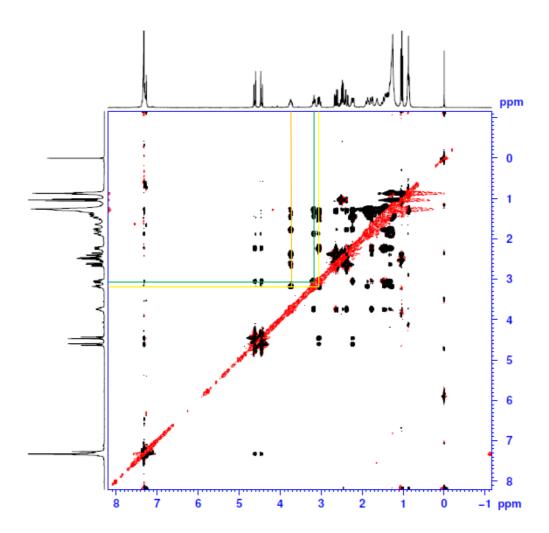
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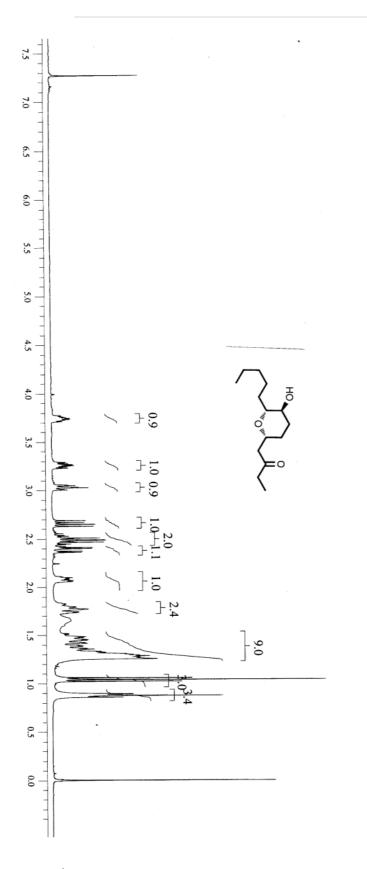
 ^{1}H NMR Spectrum of Compound 16 (400 MHz, CDCl₃)



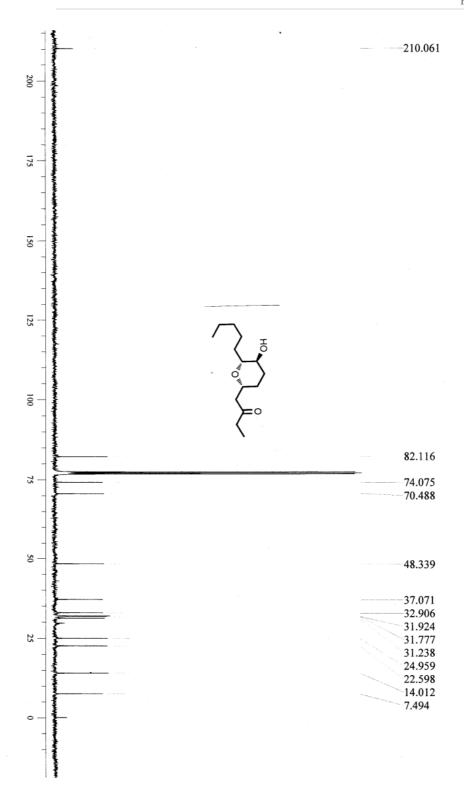
 ^{13}C NMR Spectrum of Compound 16 (125 MHz, CDCl3)



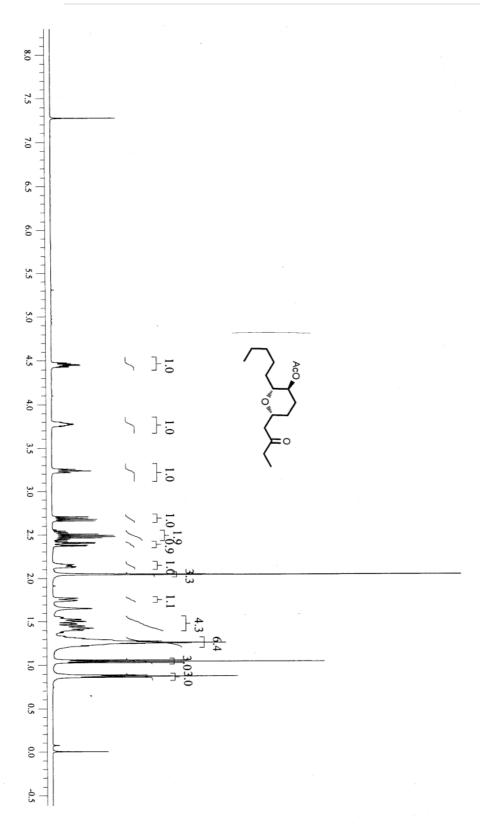
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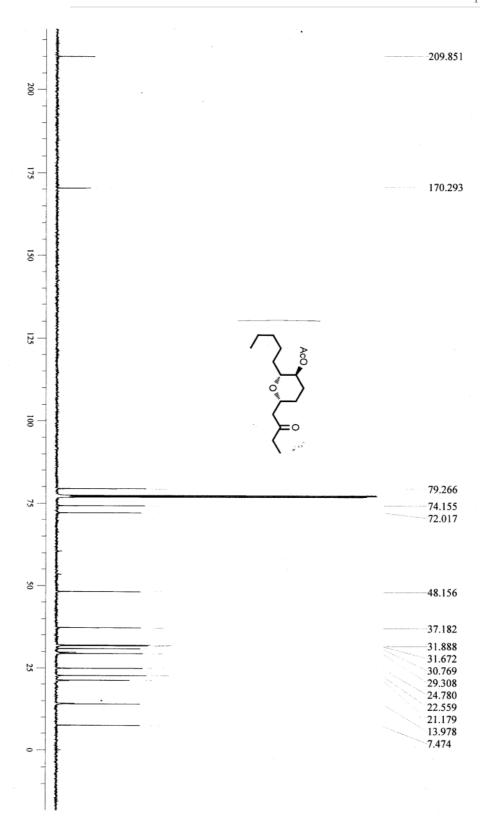
 ^{1}H NMR Spectrum of Compound 12 (500 MHz, CDCl₃)



 ^{13}C NMR Spectrum of Compound 12 (100 MHz, CDCl₃)



 ^{1}H NMR Spectrum of Compound 13 (500 MHz, CDCl₃)



 ^{13}C NMR Spectrum of Compound 13 (125 MHz, CDCl₃)