

Supporting Information

Synthesis of a Pondaplin Dimer and Trimer. Aromatic Interactions in Novel Macrocycles

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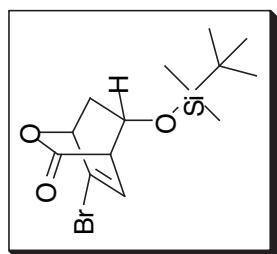
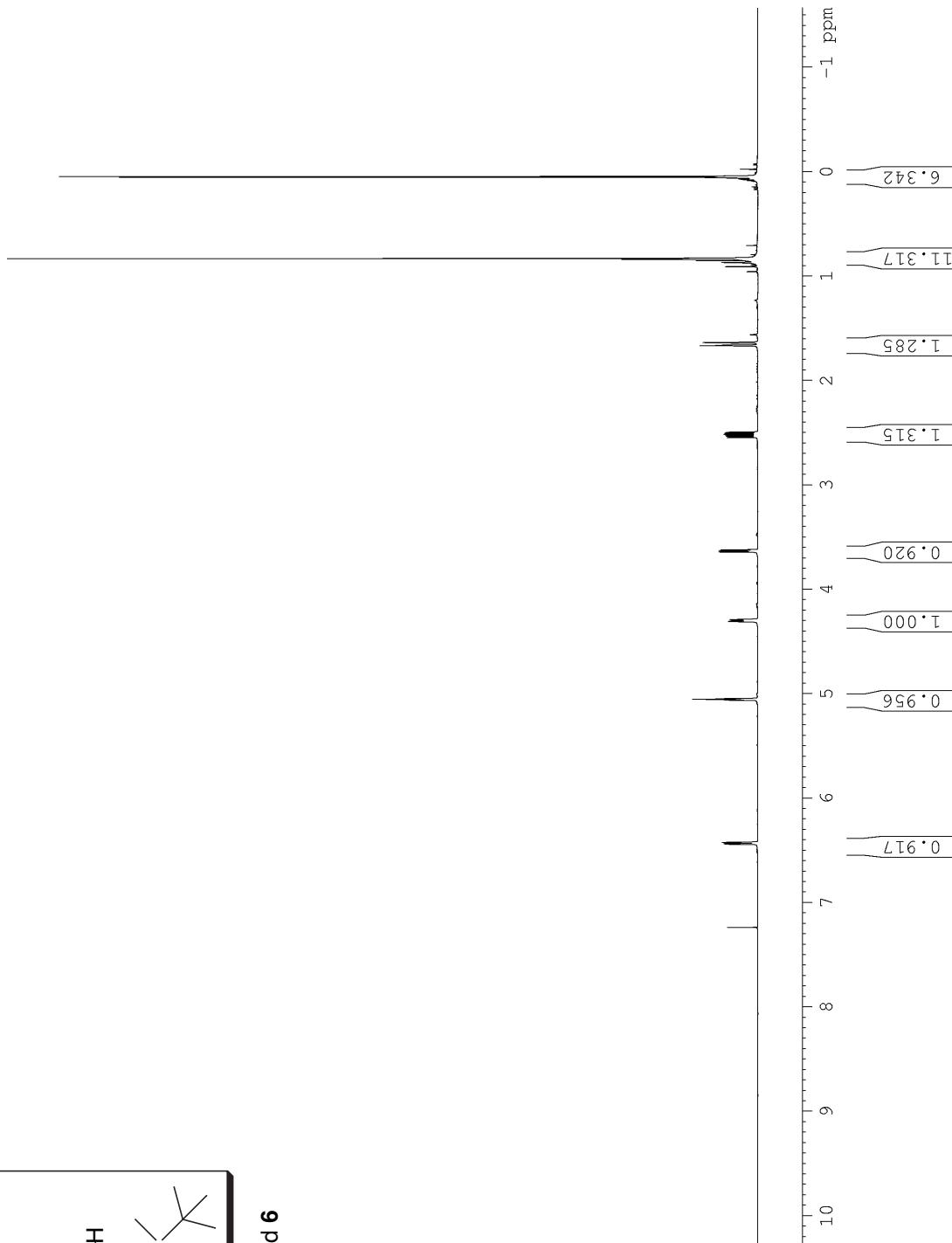
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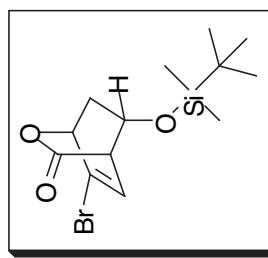
¹H and ¹³C NMR of synthetic compounds:

General Experimental	S2
7-Bromo-5- <i>endo</i> -(<i>tert</i> -butyldimethylsilanyloxy)-2-oxabicyclo[2.2.2]oct-7-en-3-one (6)	S3-S4
7-bromo-5- <i>exo</i> -(<i>tert</i> -butyldimethylsilanyloxy)-2-oxabicyclo[2.2.2]oct-7-en-3-one (7)	S5-S6
7-Bromo-5- <i>endo</i> -hydroxy-2-oxabicyclo[2.2.2]oct-7-en-3-one (8)	S7-S8
4-Bromohexa-2,4-(<i>E,Z</i>)-dienal (10)	S9-S10
4-Vinyloxybut-2-(<i>Z</i>)-enyl acrylate (11)	S11-S12
4-(7-Bromo-2-oxabicyclo[2.2.2]oct-7-en-5-yloxy)-but-2-(<i>Z</i>)-enyl acrylate (12)	S13-S14
5- <i>endo</i> -(<i>tert</i> -Butyldimethylsilanyloxy)-7-vinyl-2-oxabicyclo[2.2.2]oct-7-en-3-one (15)	S15-S16
Methyl 4-(tetrahydropyran-2-yloxy)but-2-ynoate (16)	S17-S18
Methyl (<i>Z</i>)-3-methyl-4-(tetrahydropyran-2-yloxy)but-2-enoate (17)	S19-S20
(<i>Z</i>)-3-Methyl-4-(tetrahydropyran-2-yloxy)but-2-en-1-ol (18)	S21-S22
2-[4-(4-Iodophenoxy)-2-methylbut-2-enyloxy]tetrahydropyran (19)	S23-S24
4-(4-Iodophenoxy)-2-methylbut-2-en-1-ol (20)	S25-S26
4-(4-Iodophenoxy)-2-methylbut-2-enyl acrylate (21)	S27-S28
3-[4-(4-Hydroxy-3-methylbut-(<i>Z</i>)-2-enyloxy)phenyl]-(<i>E</i>)-acrylate dimer (22)	S29-S30
3-[4-(4-Hydroxy-3-methylbut-(<i>Z</i>)-2-enyloxy)phenyl]-(<i>E</i>)-acrylate trimer (23)	S31-S32

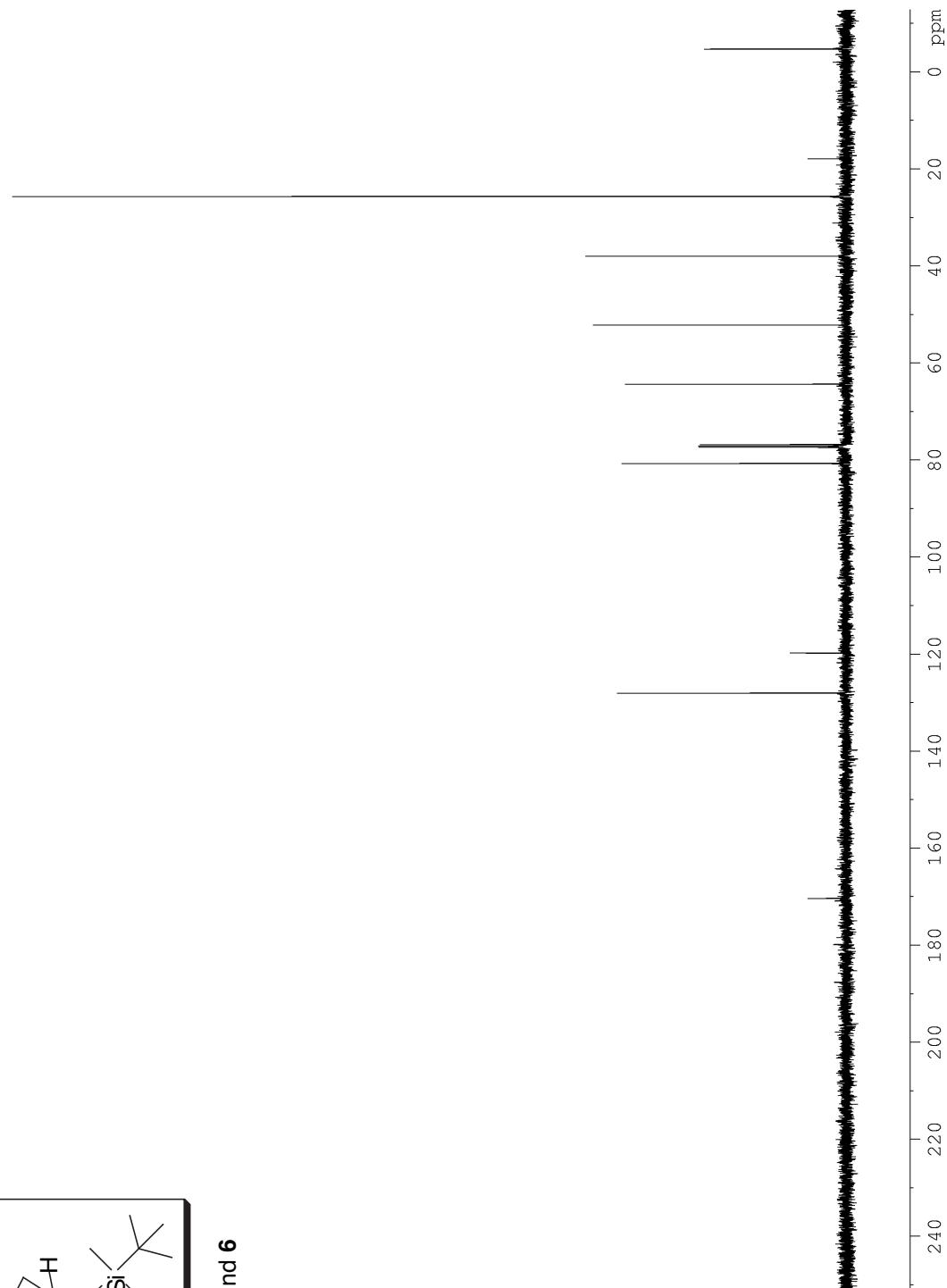
General Experimental. All reactions were performed under an inert atmosphere (Ar). All solvents were reagent grade and were distilled before use. Melting points (°C) are uncorrected. Proton magnetic resonance spectra (¹H NMR) and carbon magnetic resonance spectra (¹³C NMR) were recorded at 500 and 125 MHz, respectively. Analytical thin-layer chromatography (TLC) was performed on Merk silica gel (60F-254) plates (0.25 mm) precoated with a fluorescent indicator. Visualization was effected with ultraviolet light, potassium permanganate (0.05M in 1M aqueous acetic acid), and phosphomolybdic acid (7% w/v) in 95% ethanol. Microwave experiments were carried out on a CEM Focused MicrowaveTM Synthesis System, Model Discover.

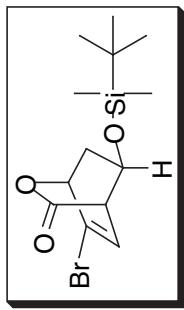
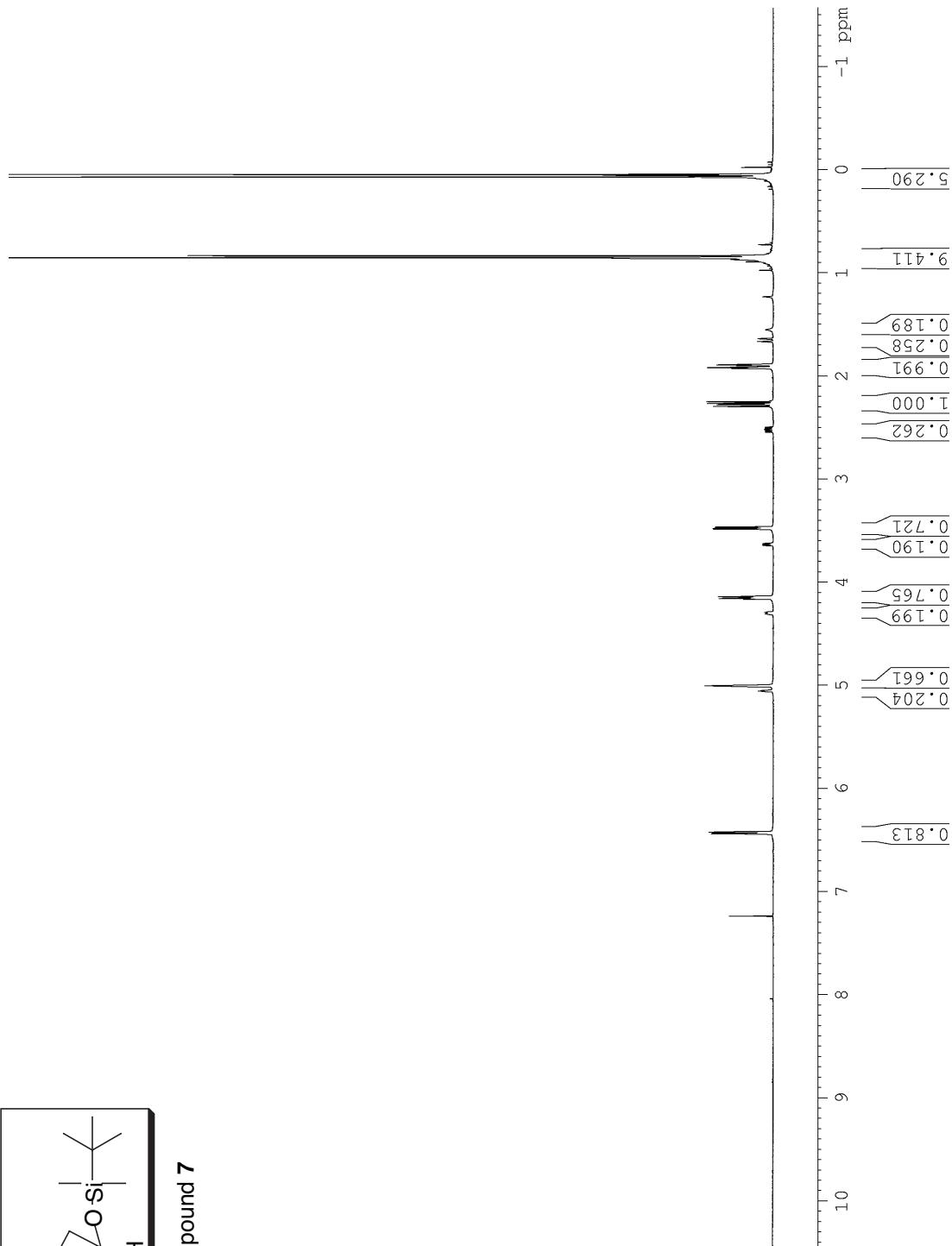


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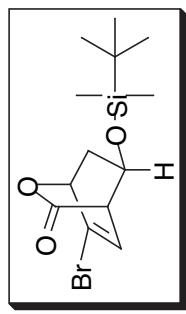


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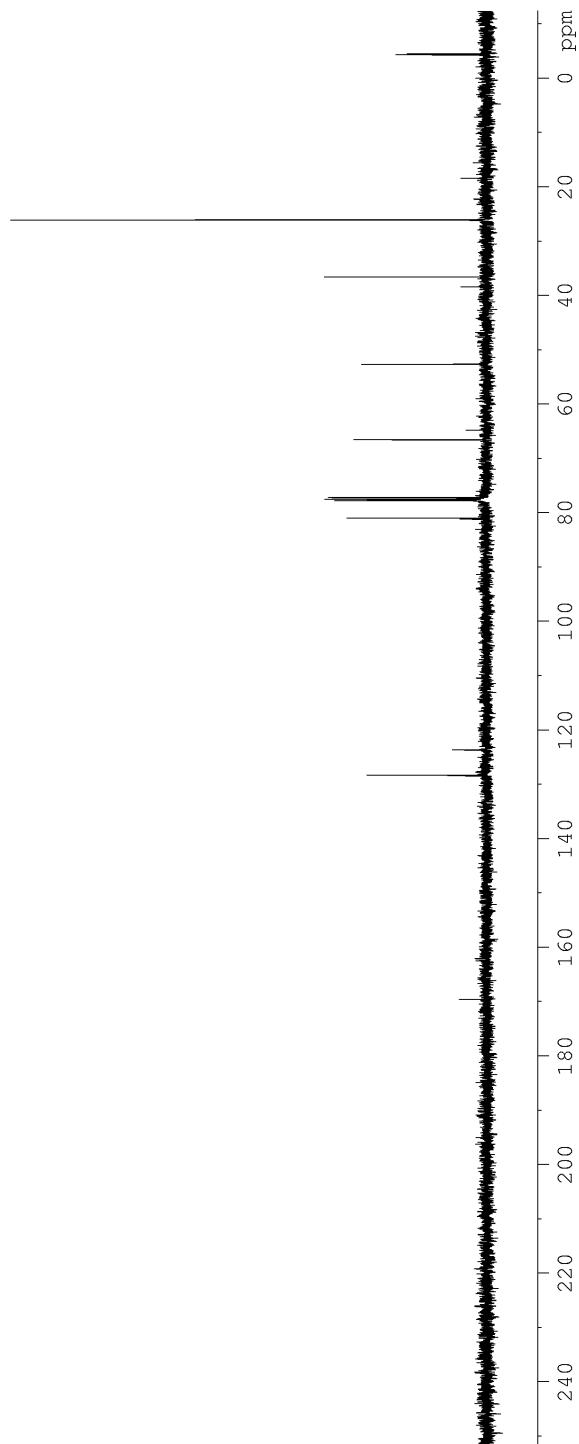


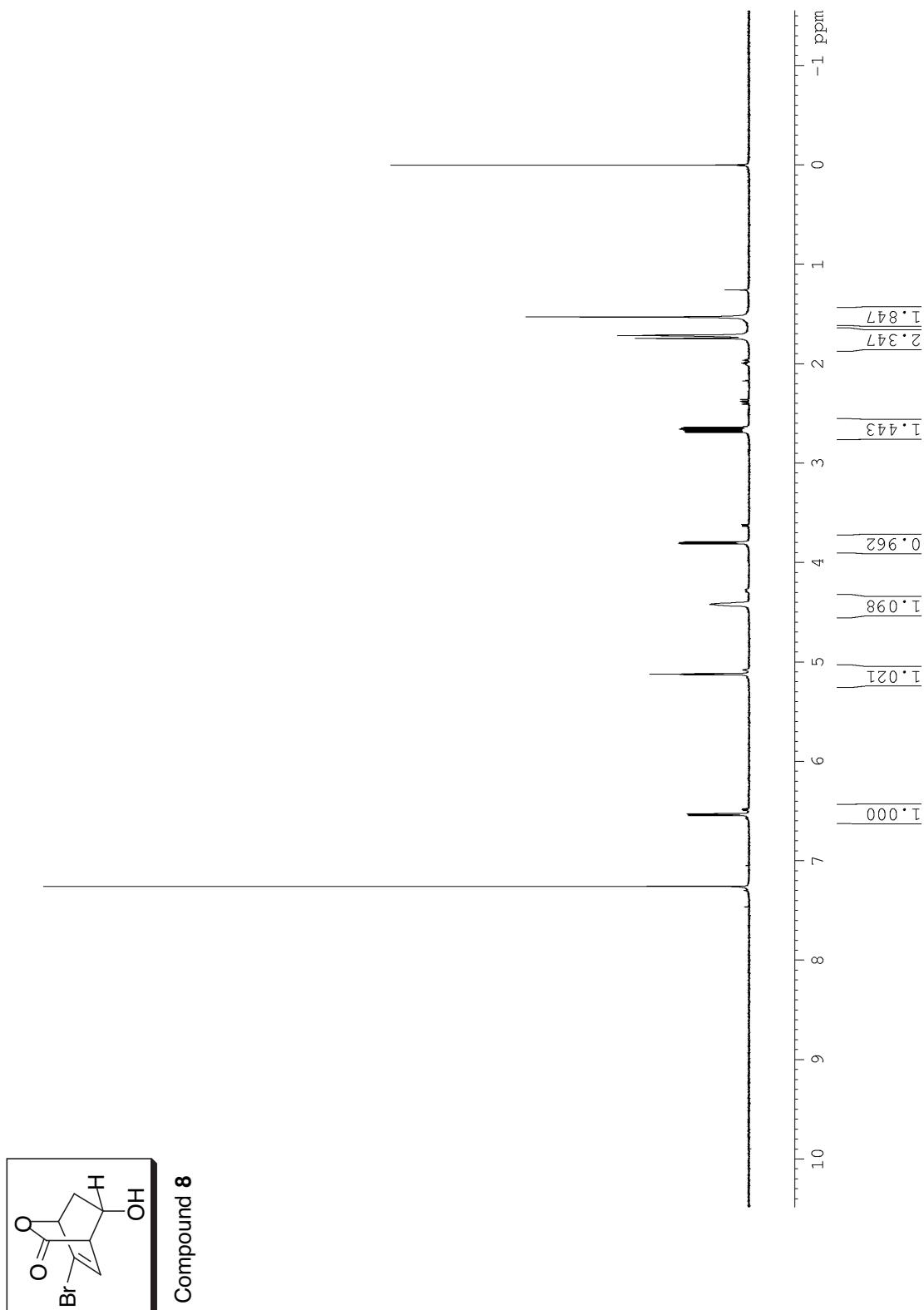


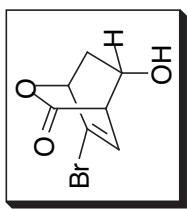
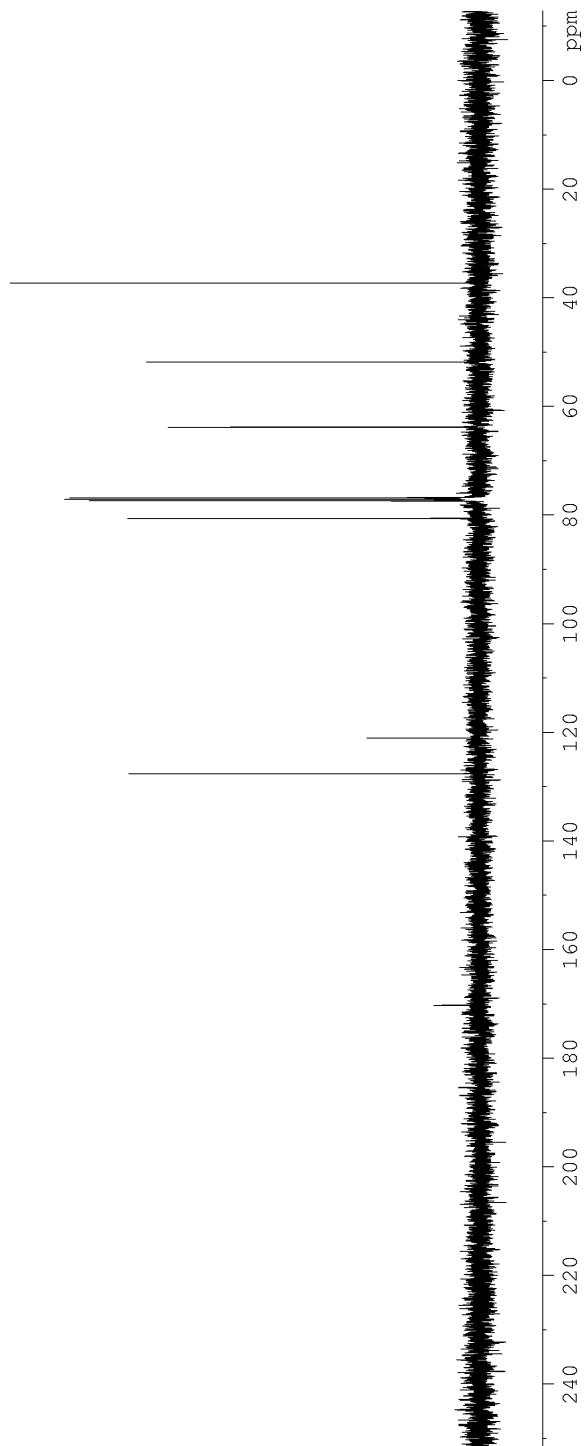
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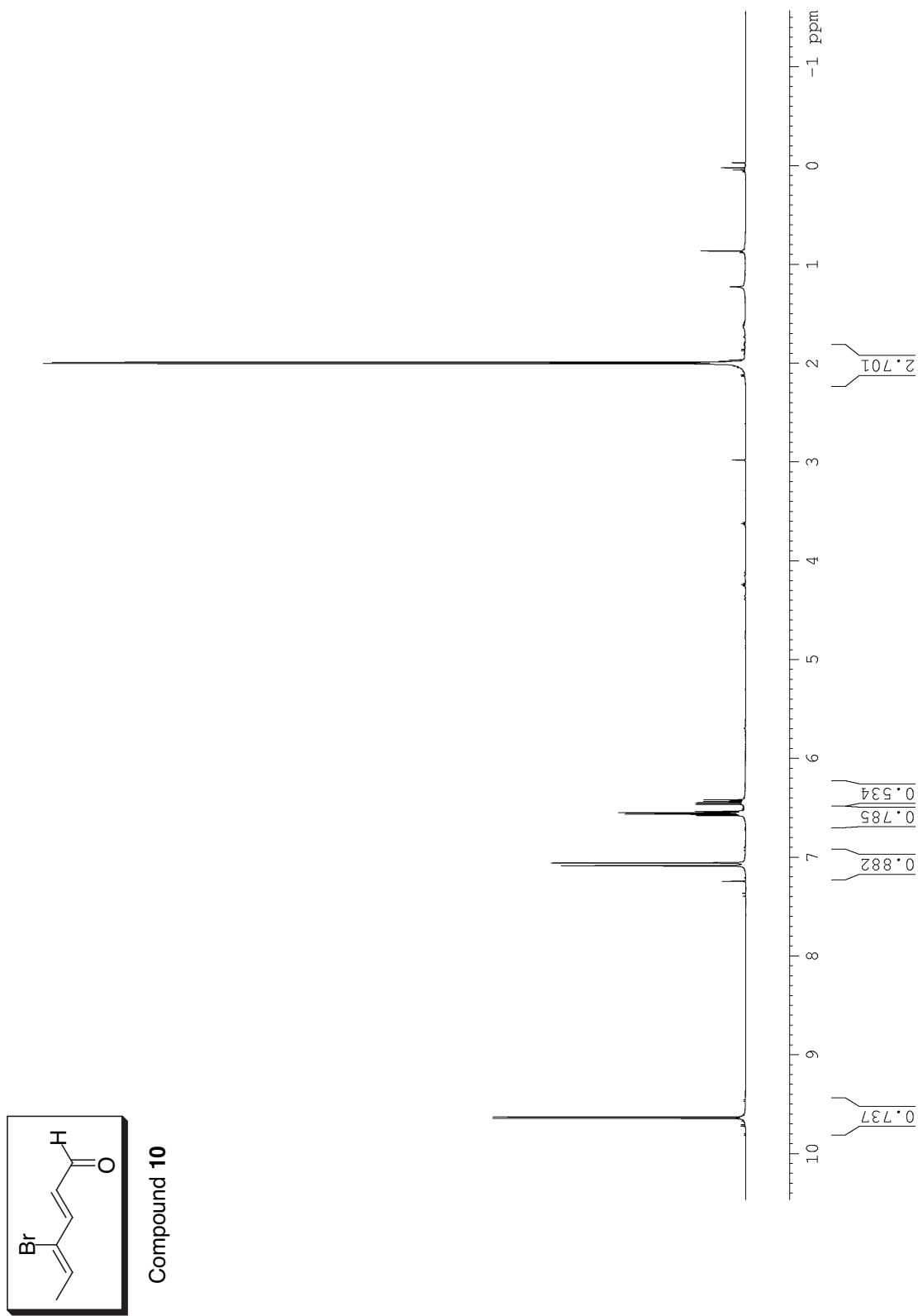
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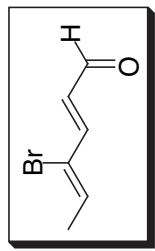




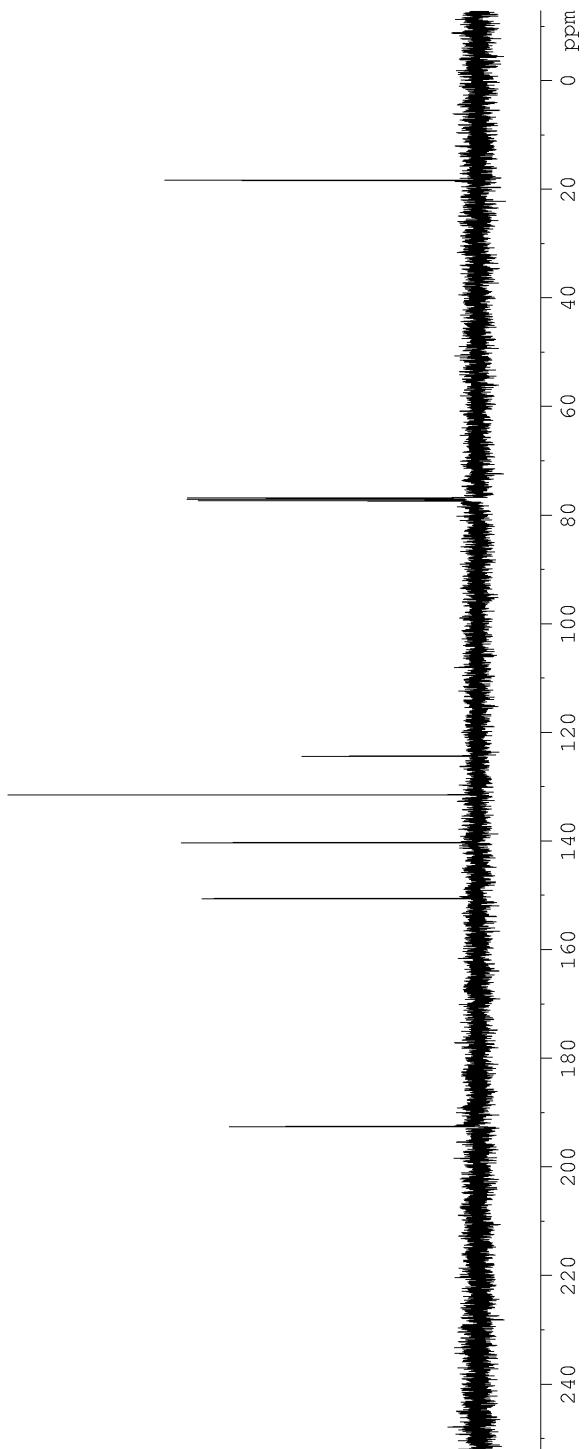


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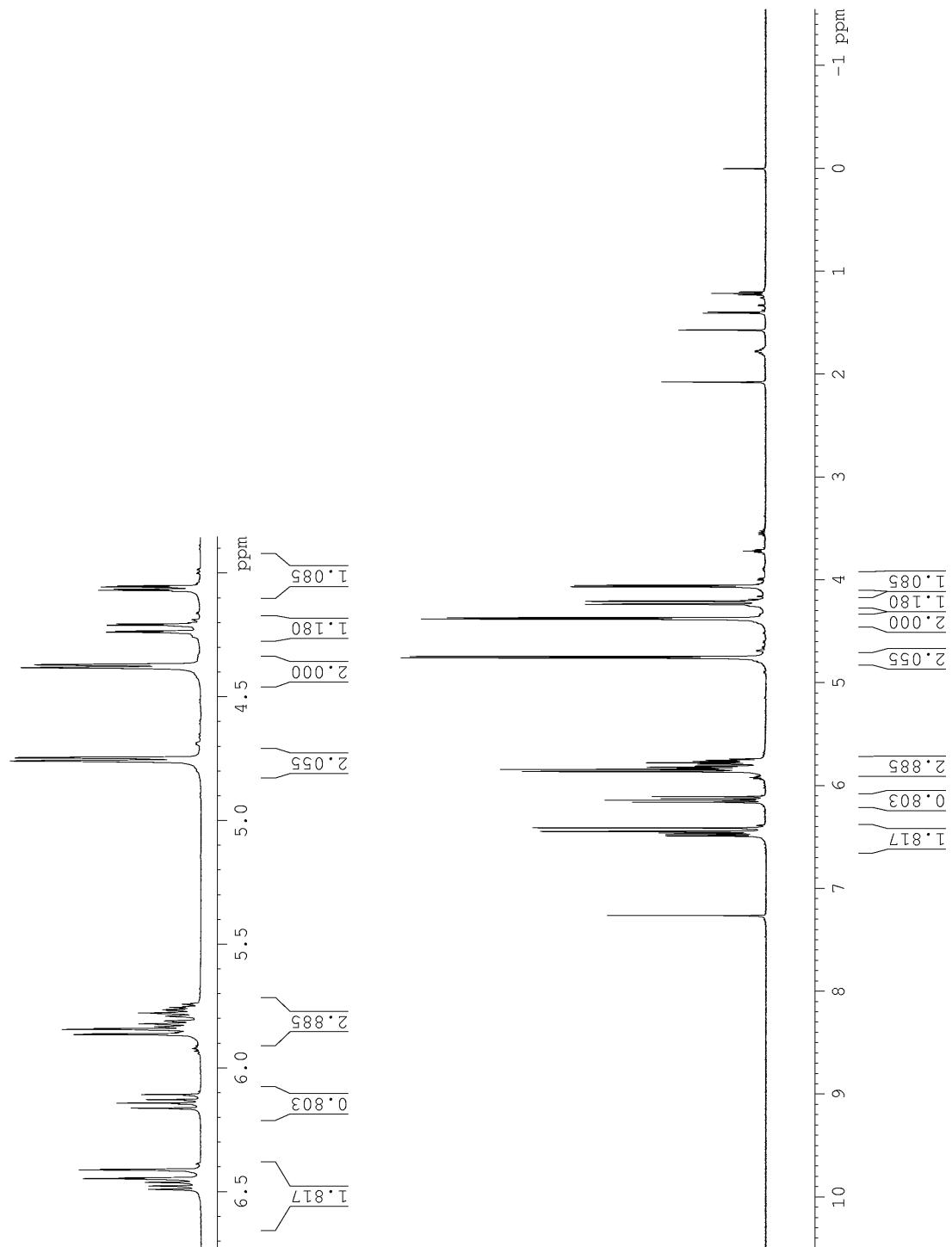


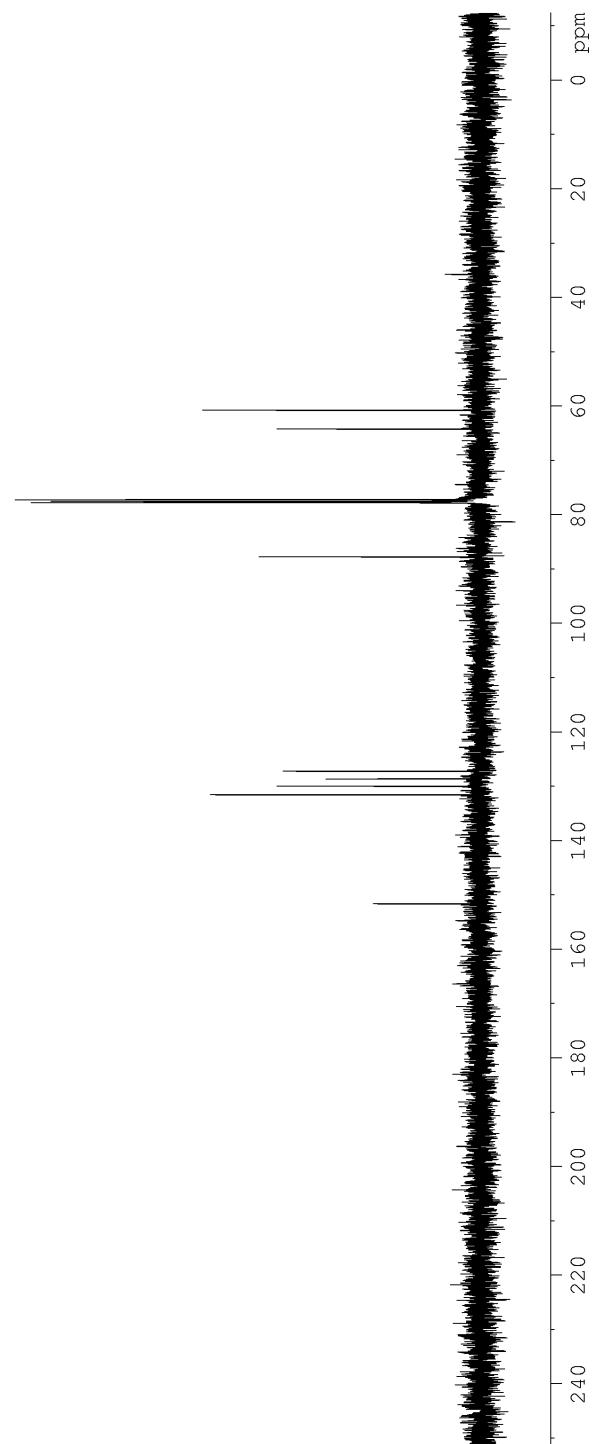
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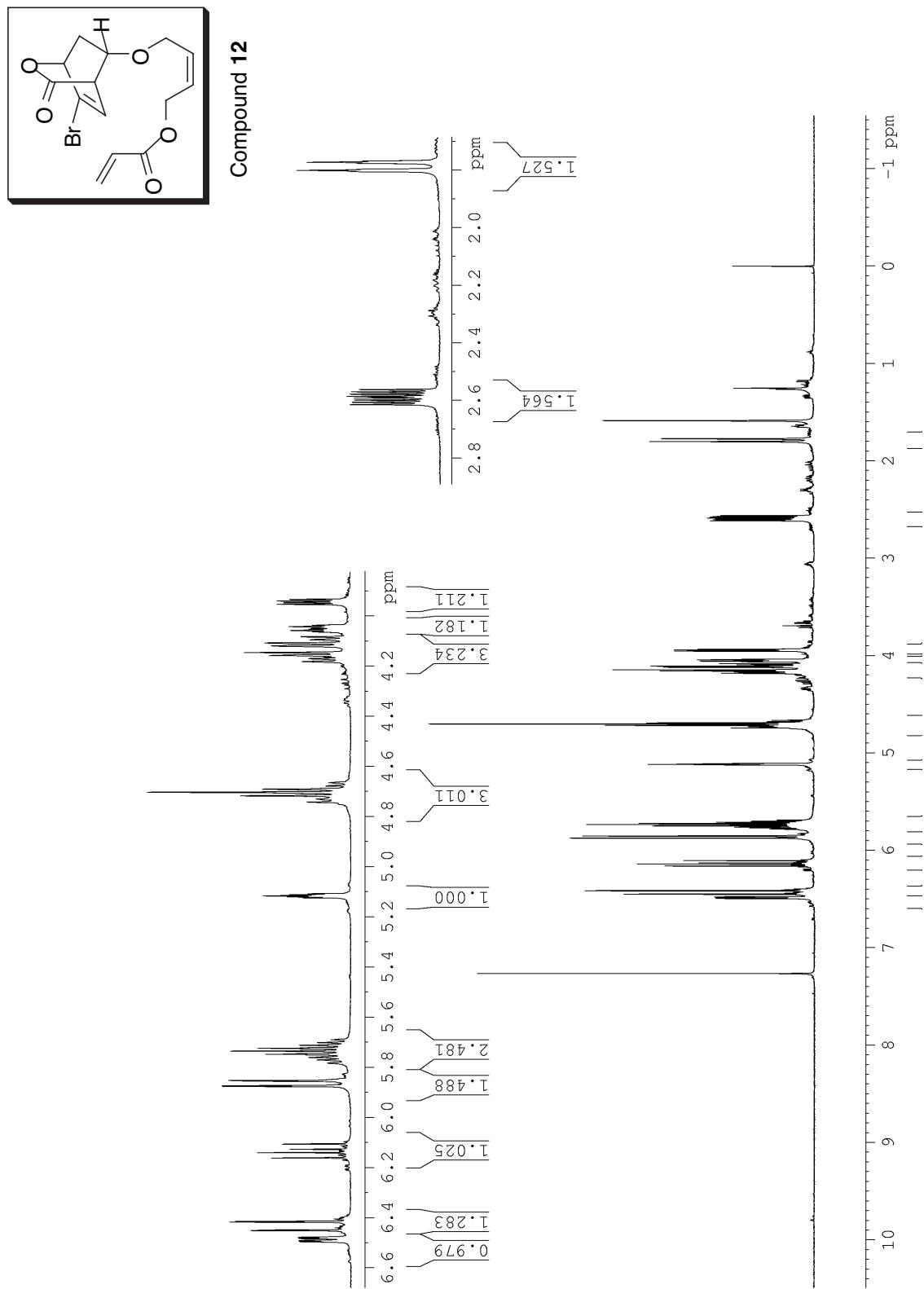
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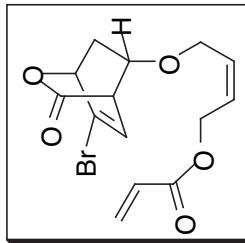
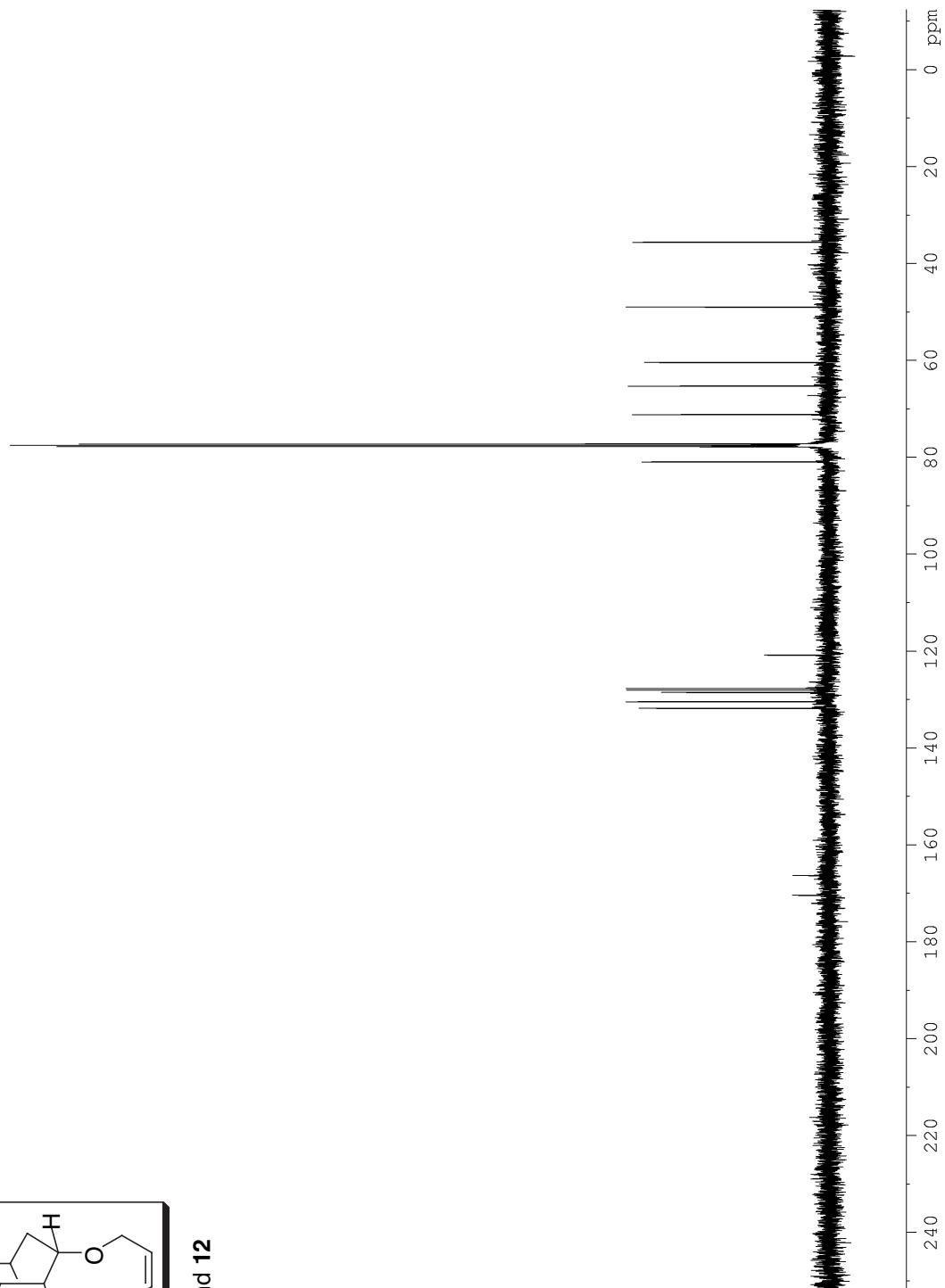




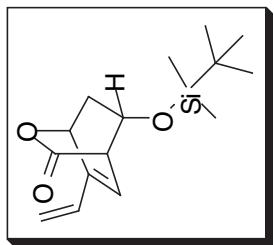
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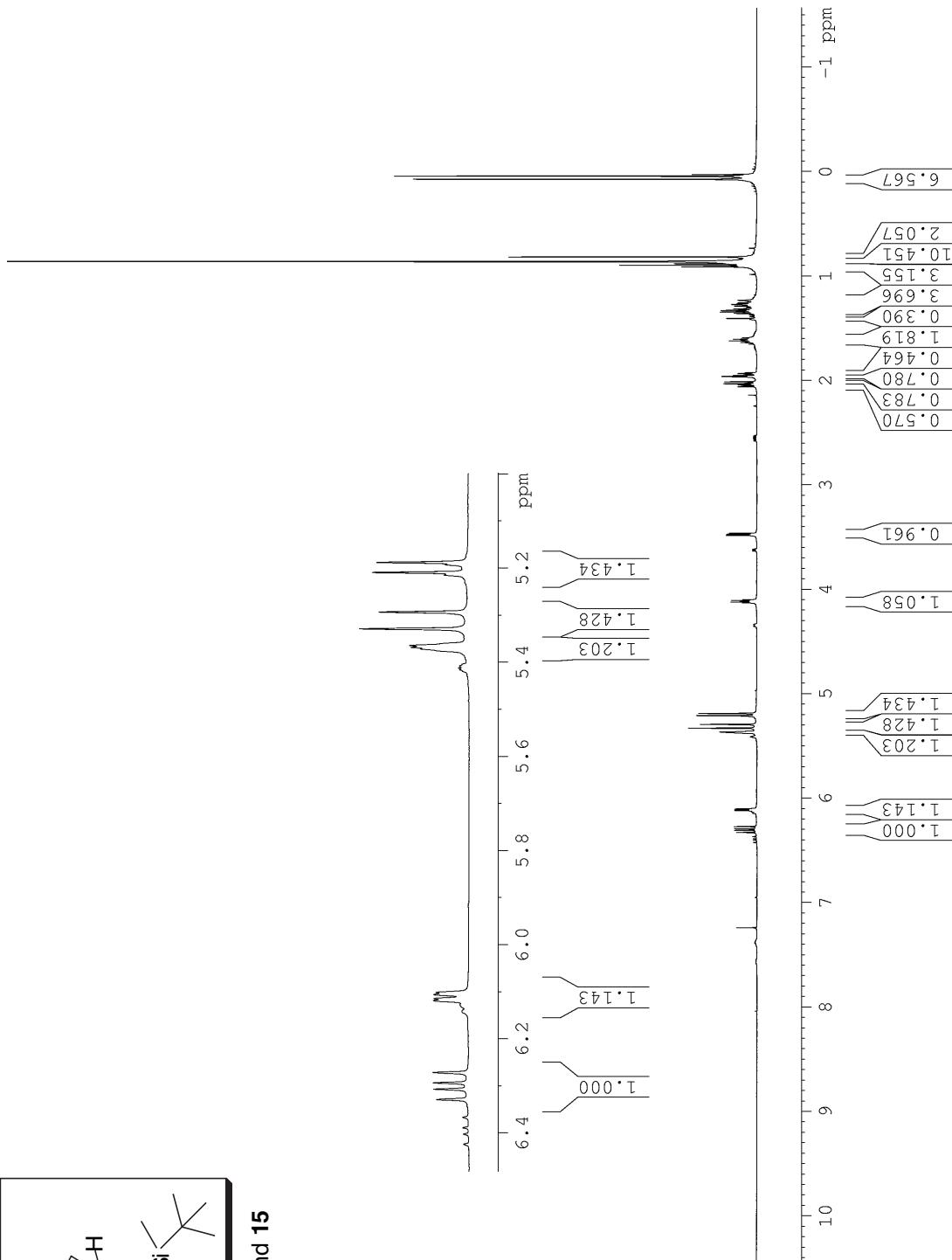


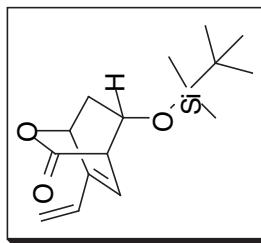
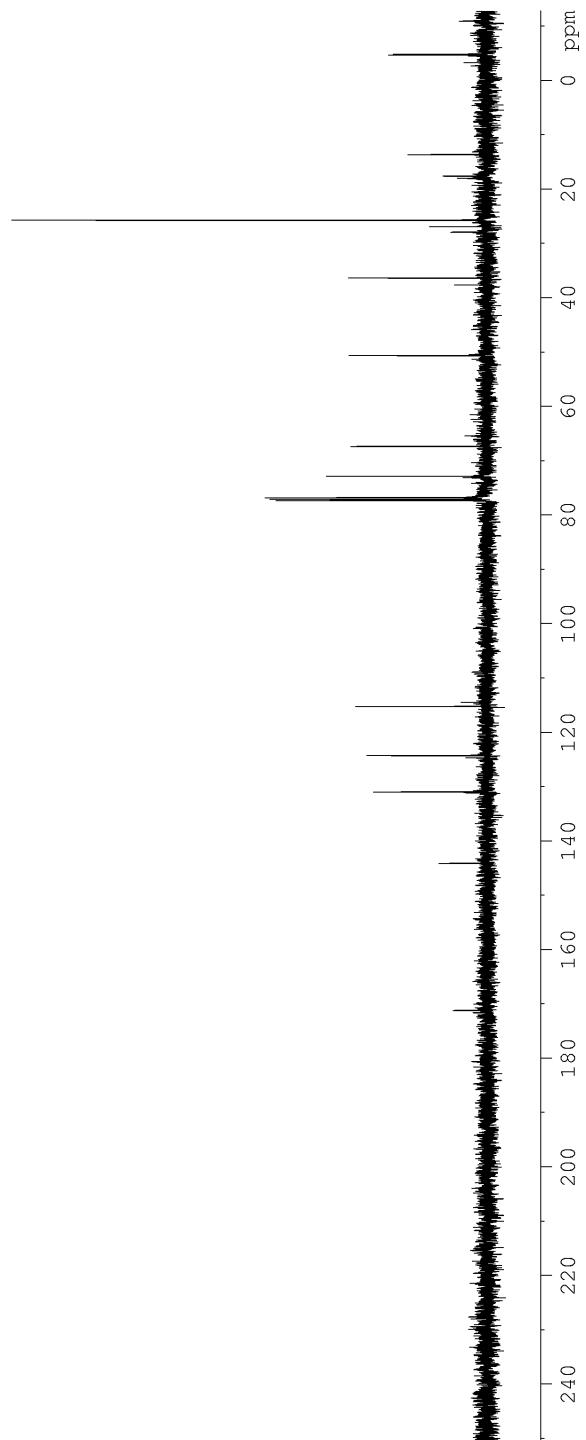


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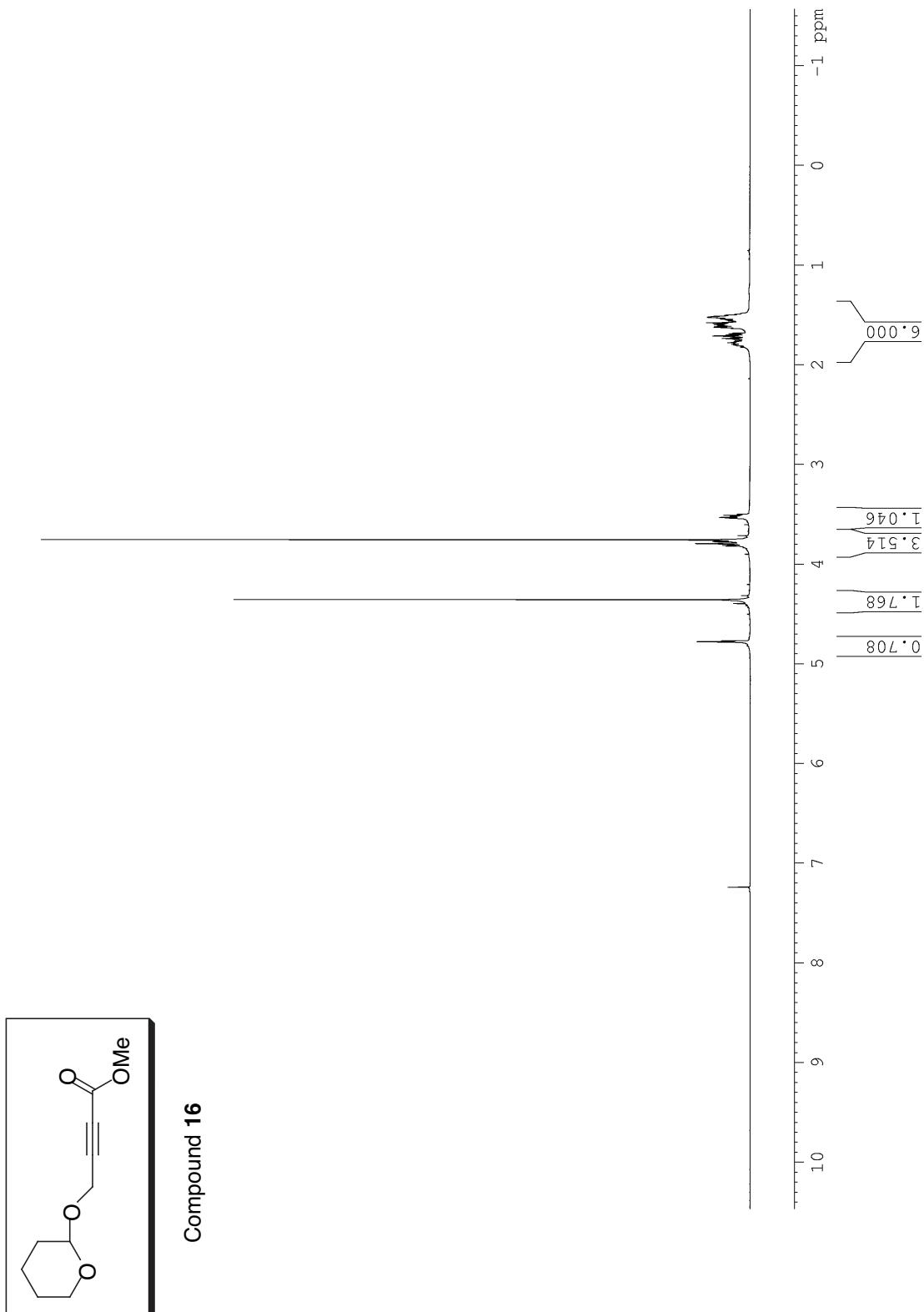


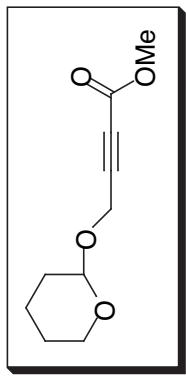
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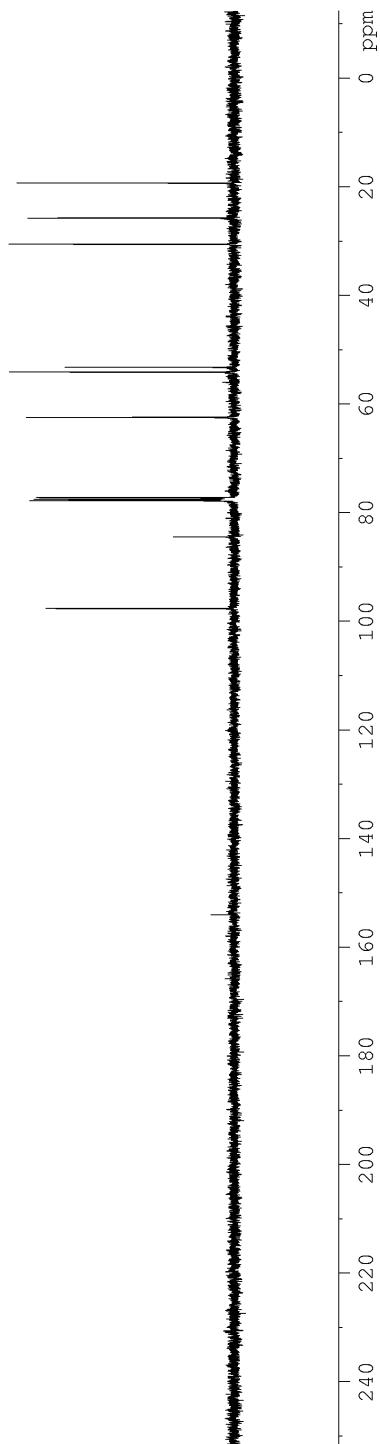


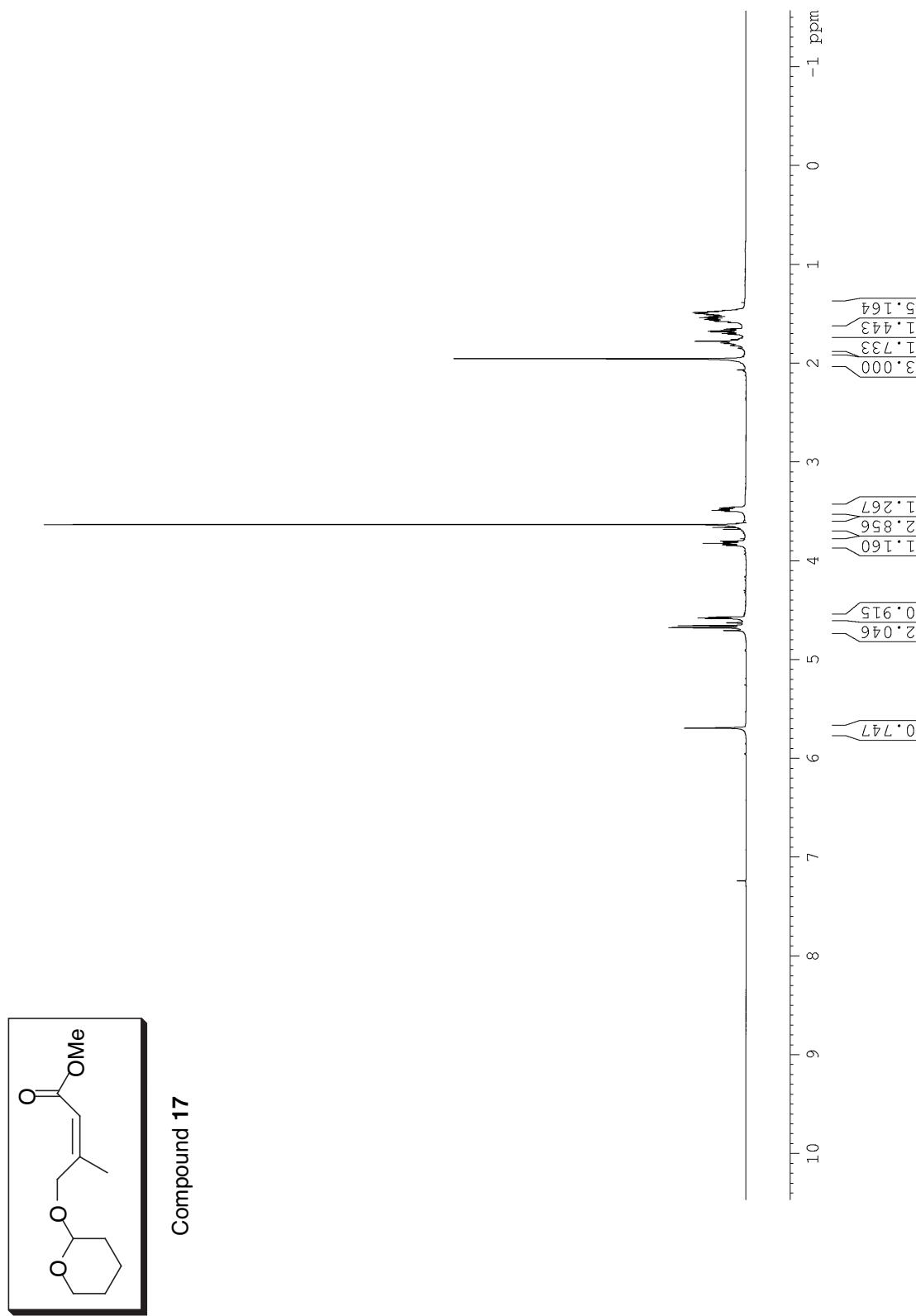
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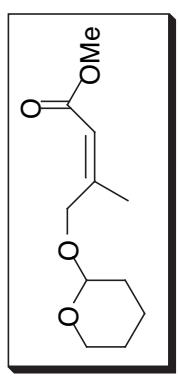




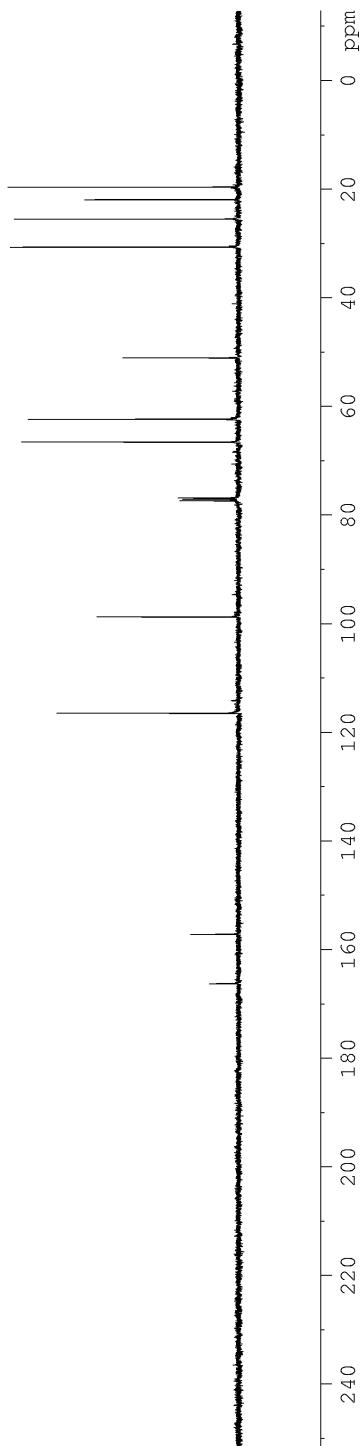
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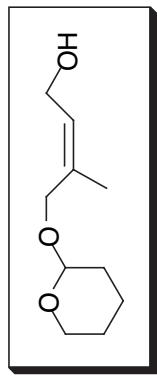




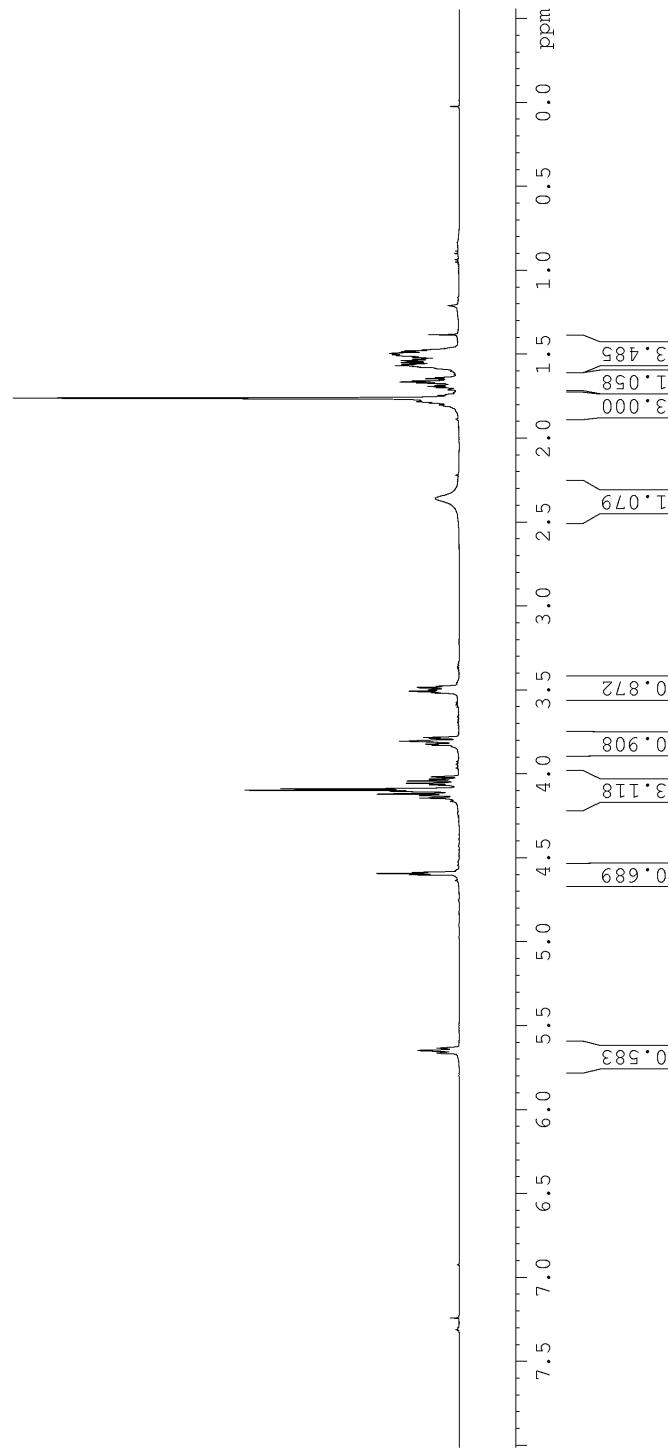


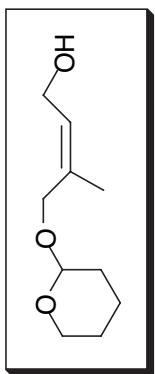
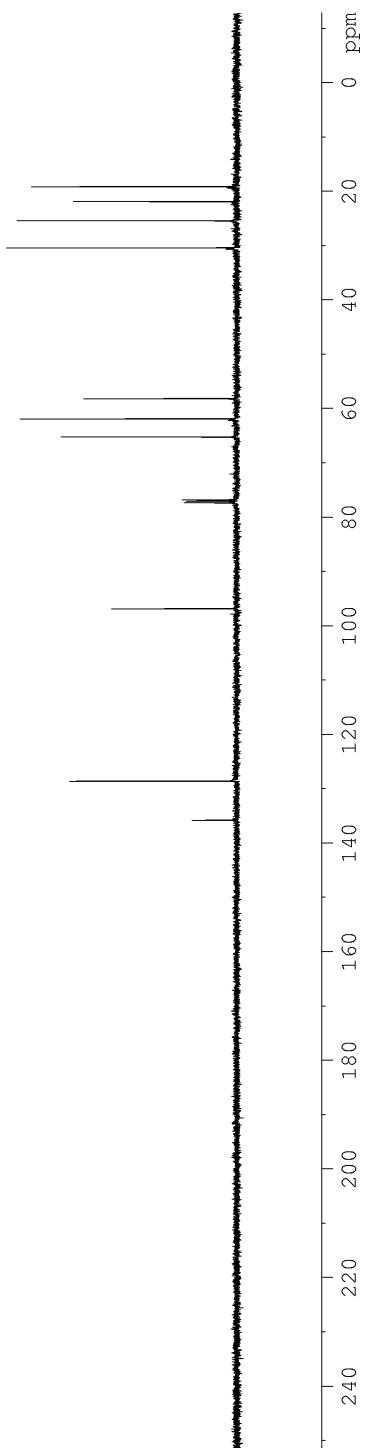
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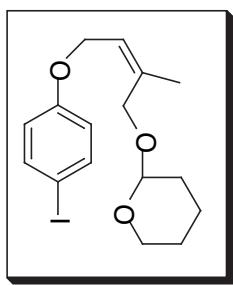
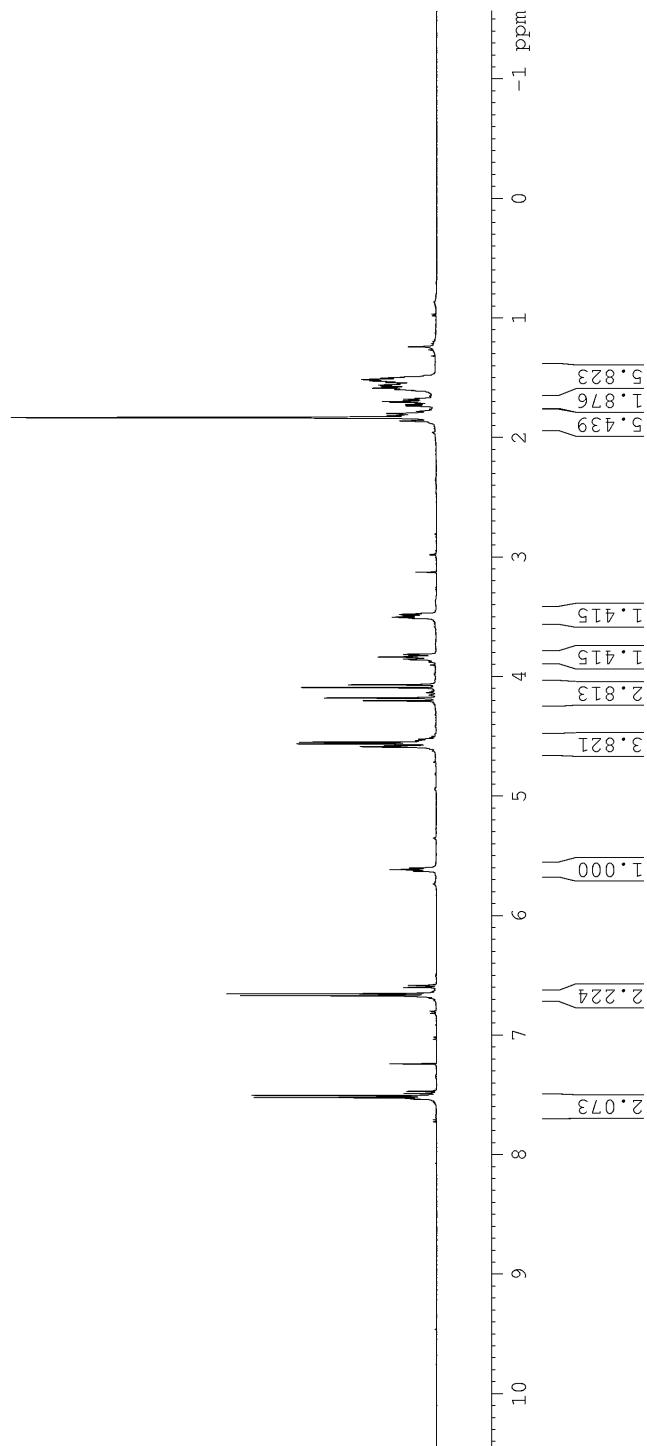


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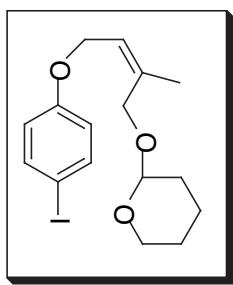
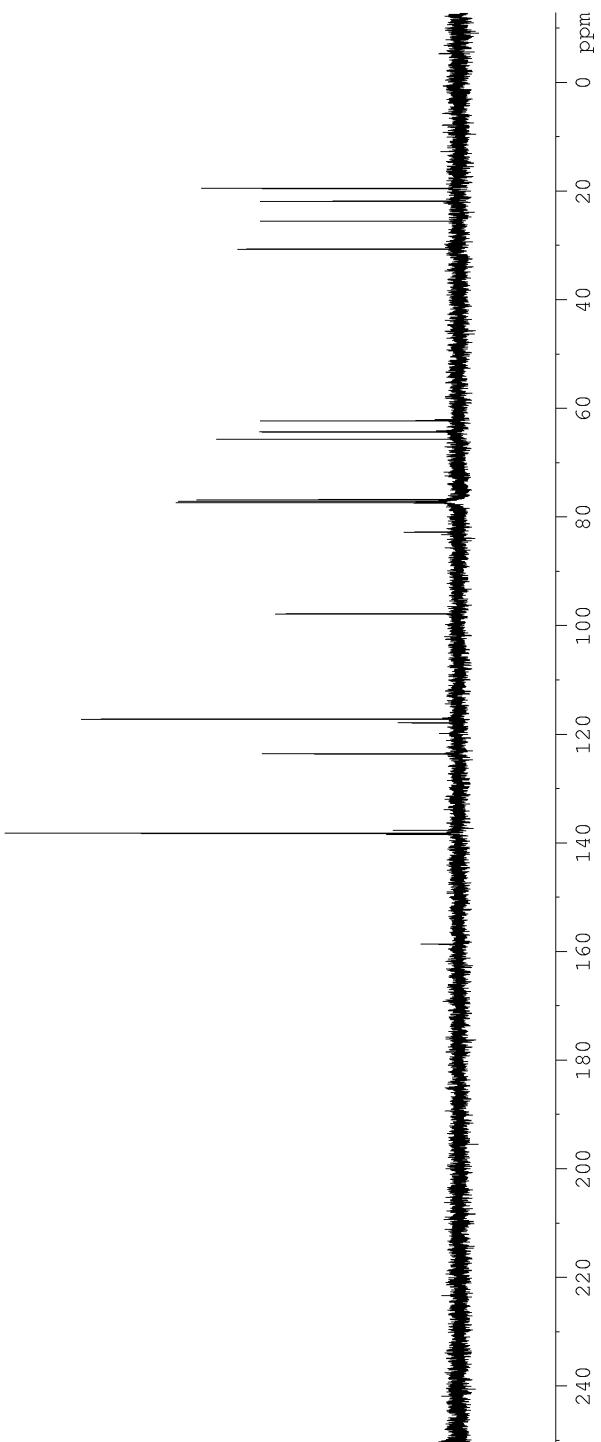




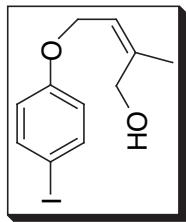
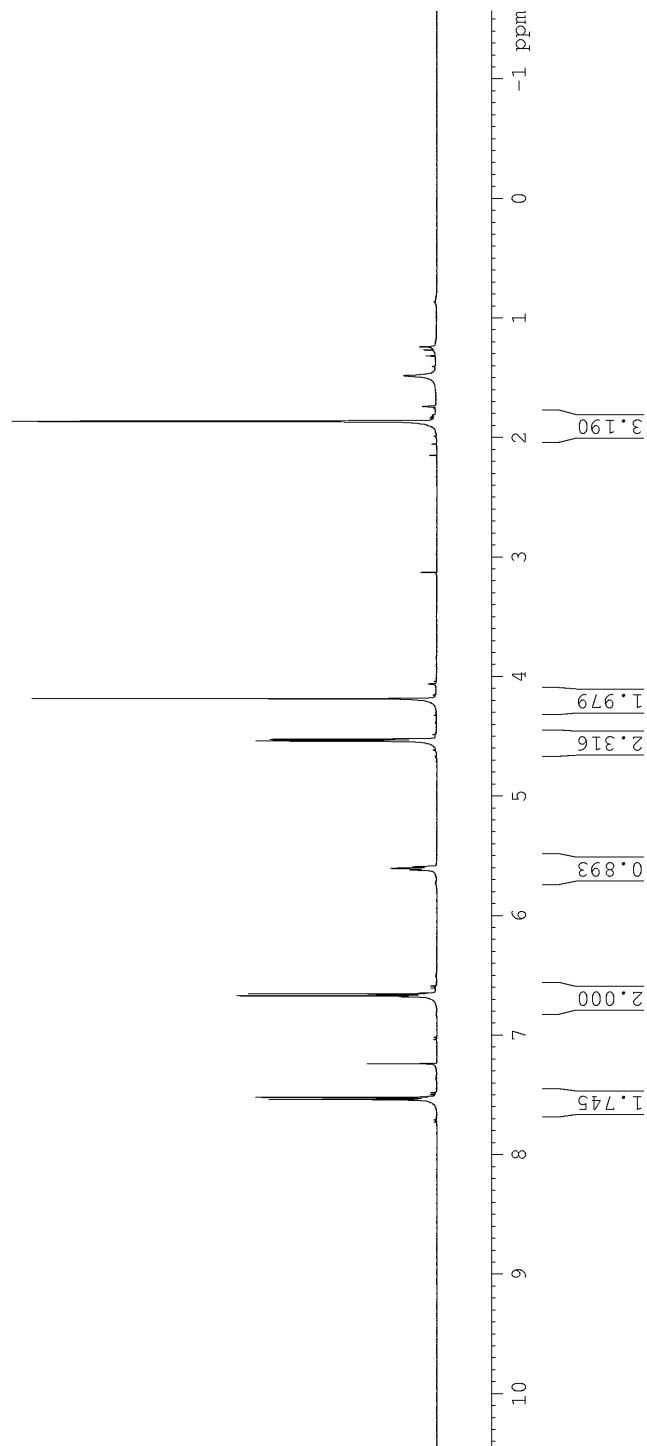
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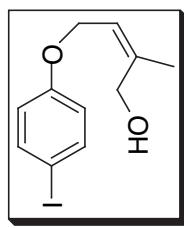
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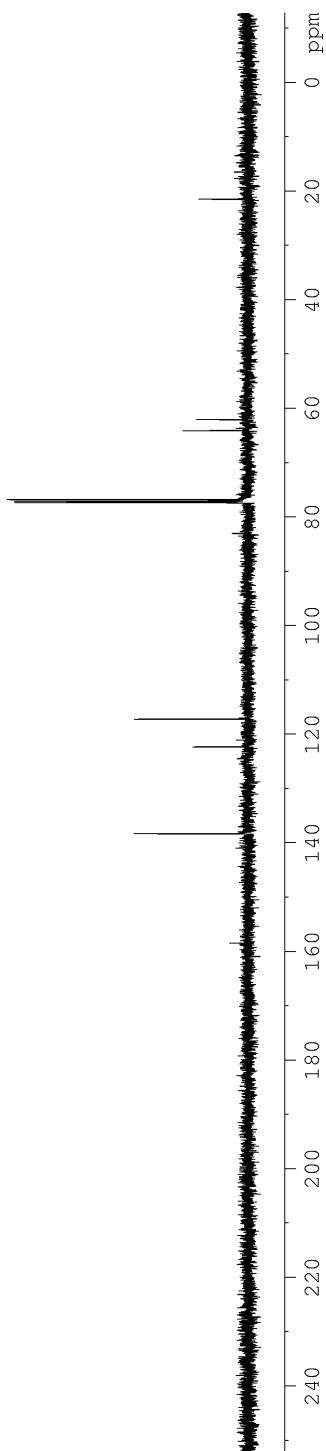
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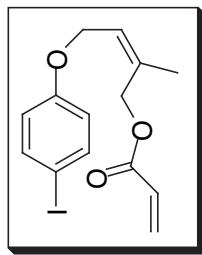
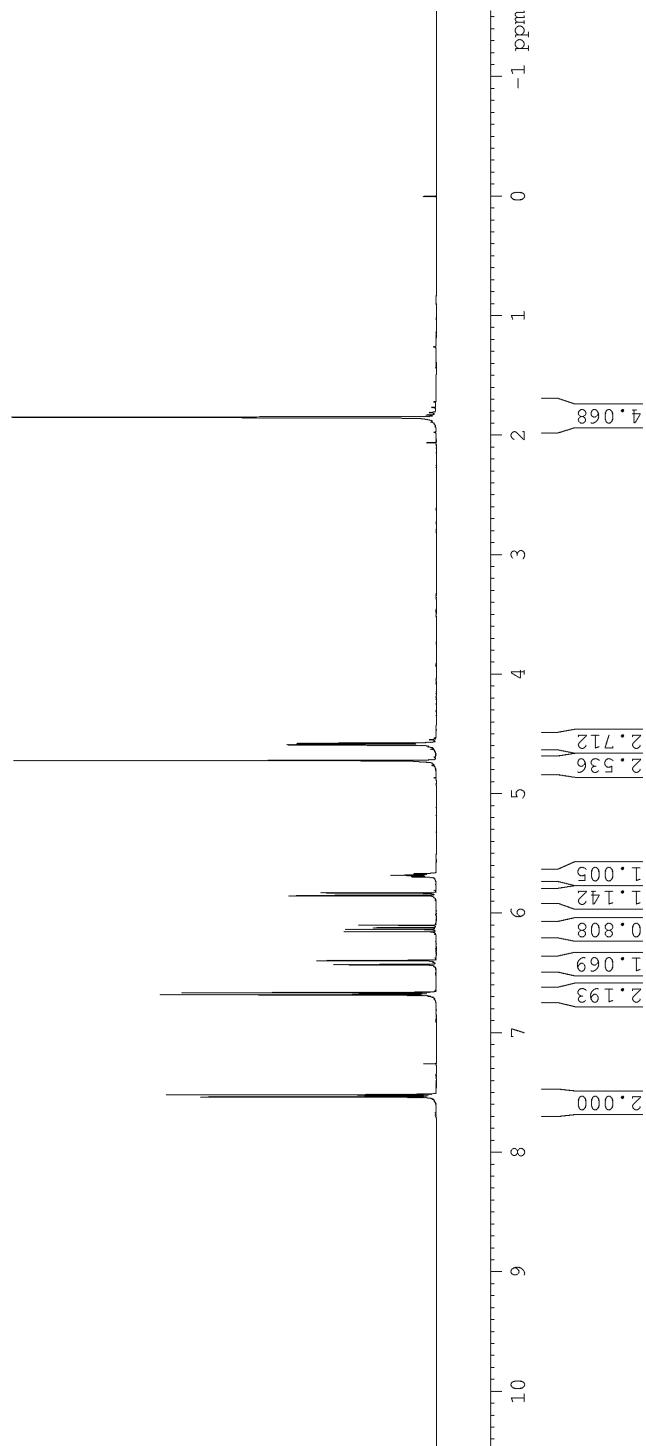


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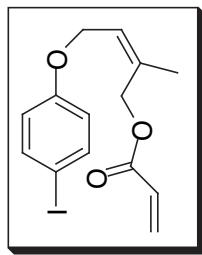
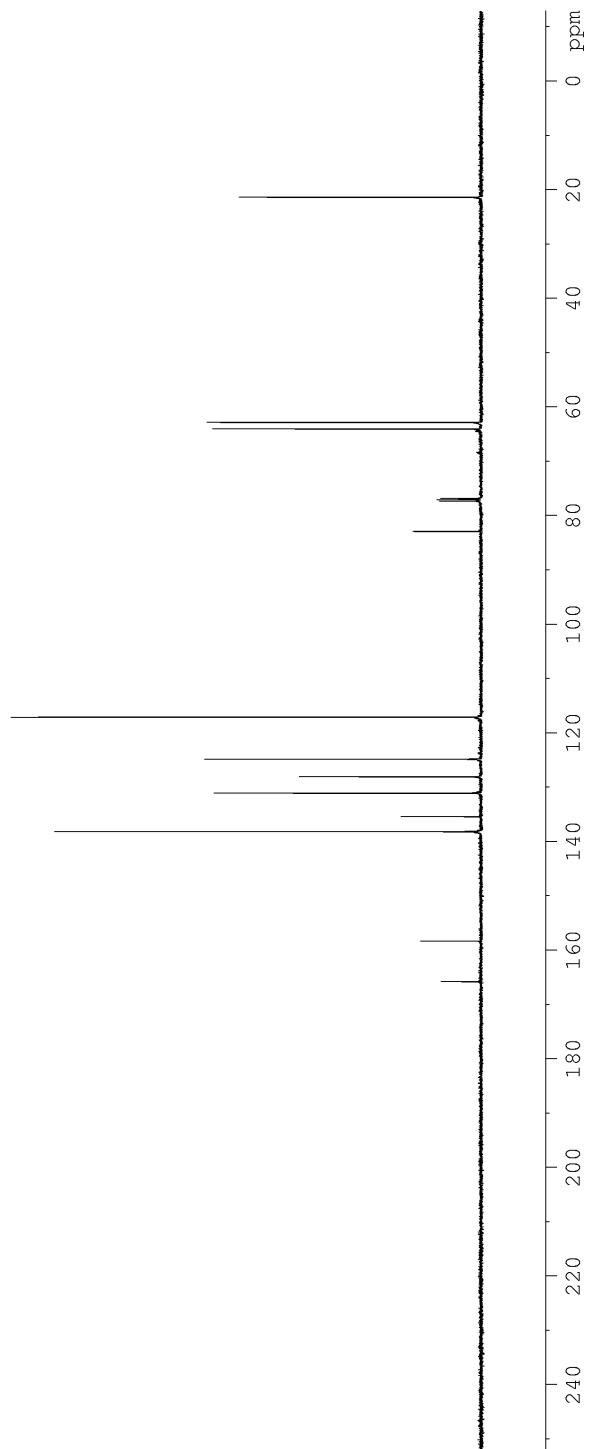


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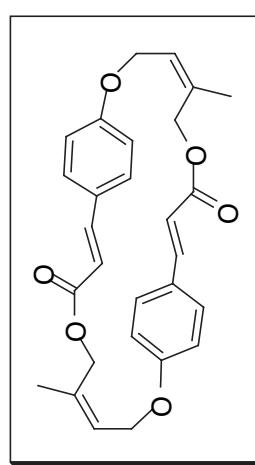




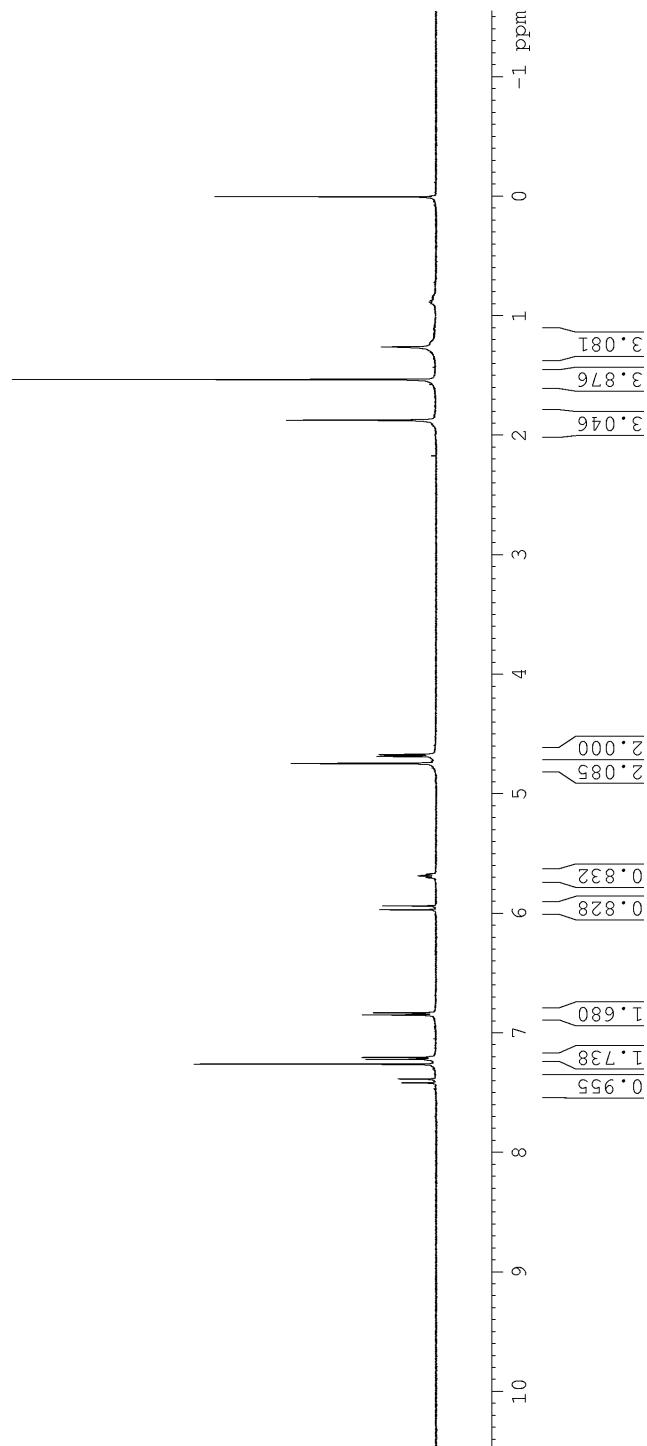
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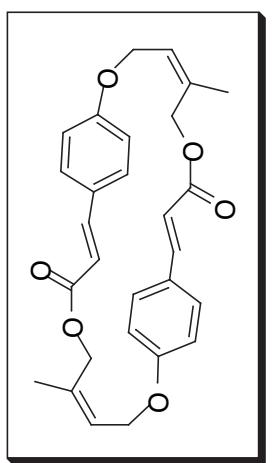


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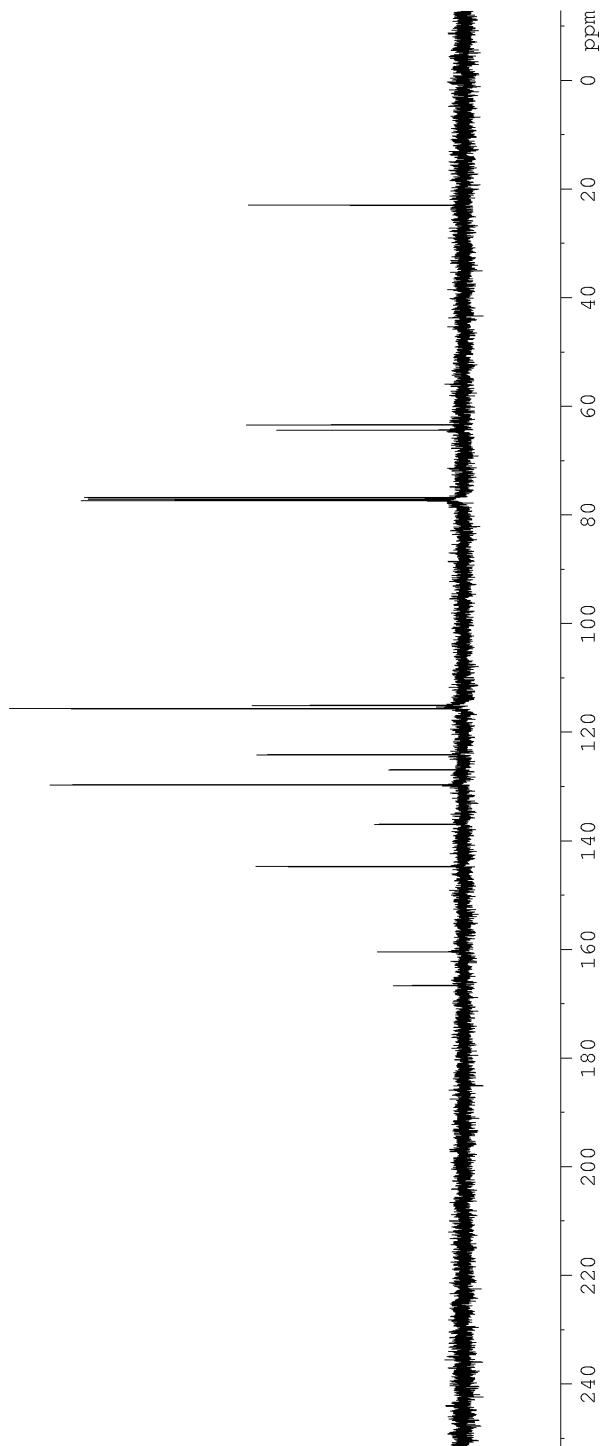


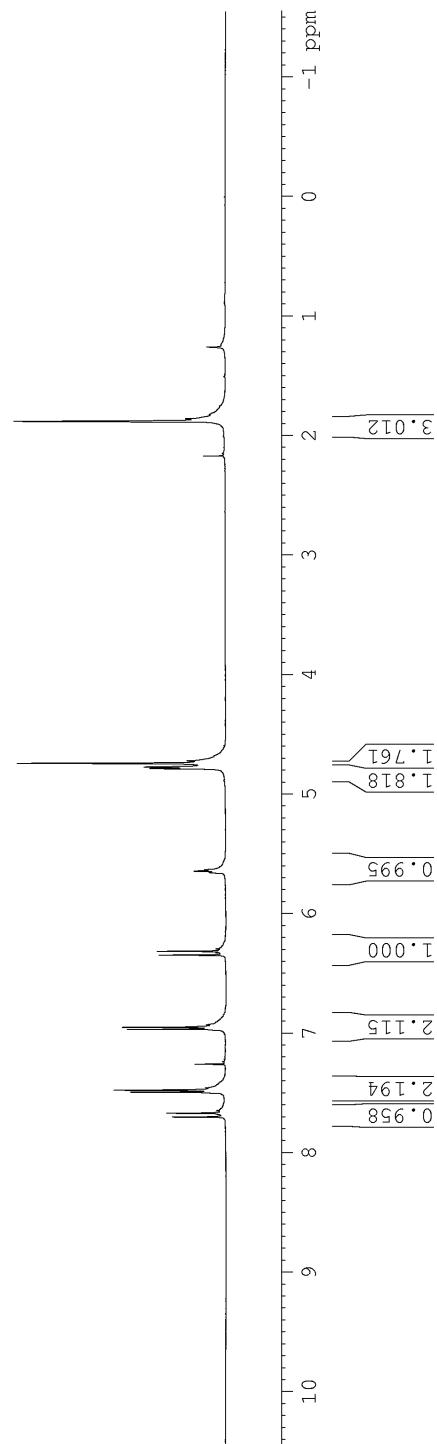
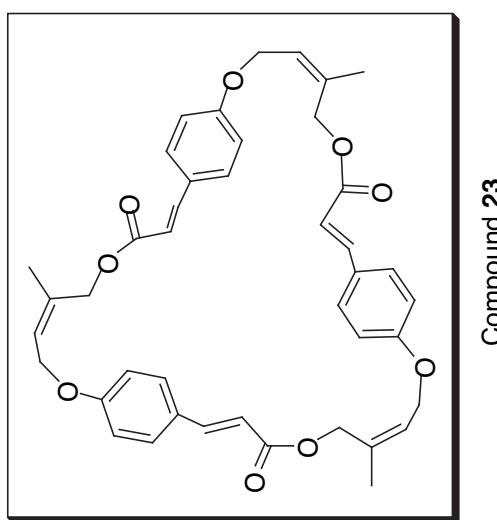
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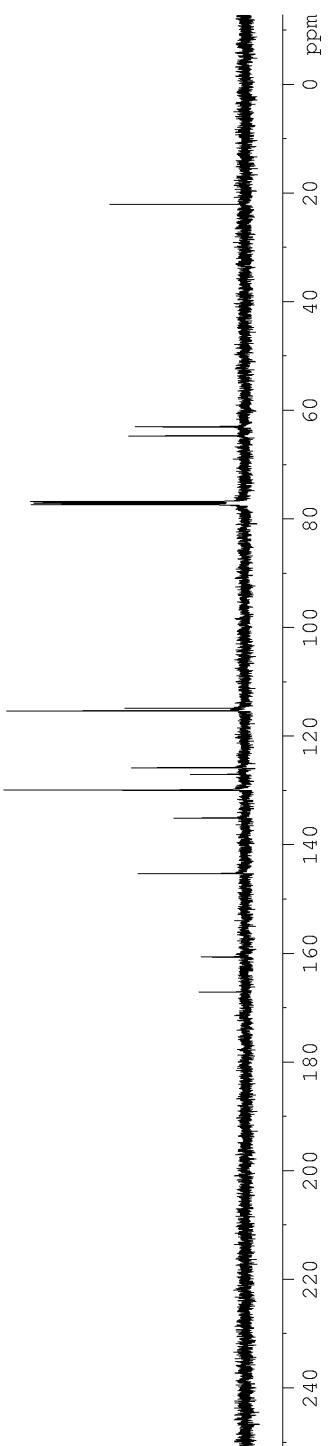




Compound 22







Compound 23

