

## Supplementary Material

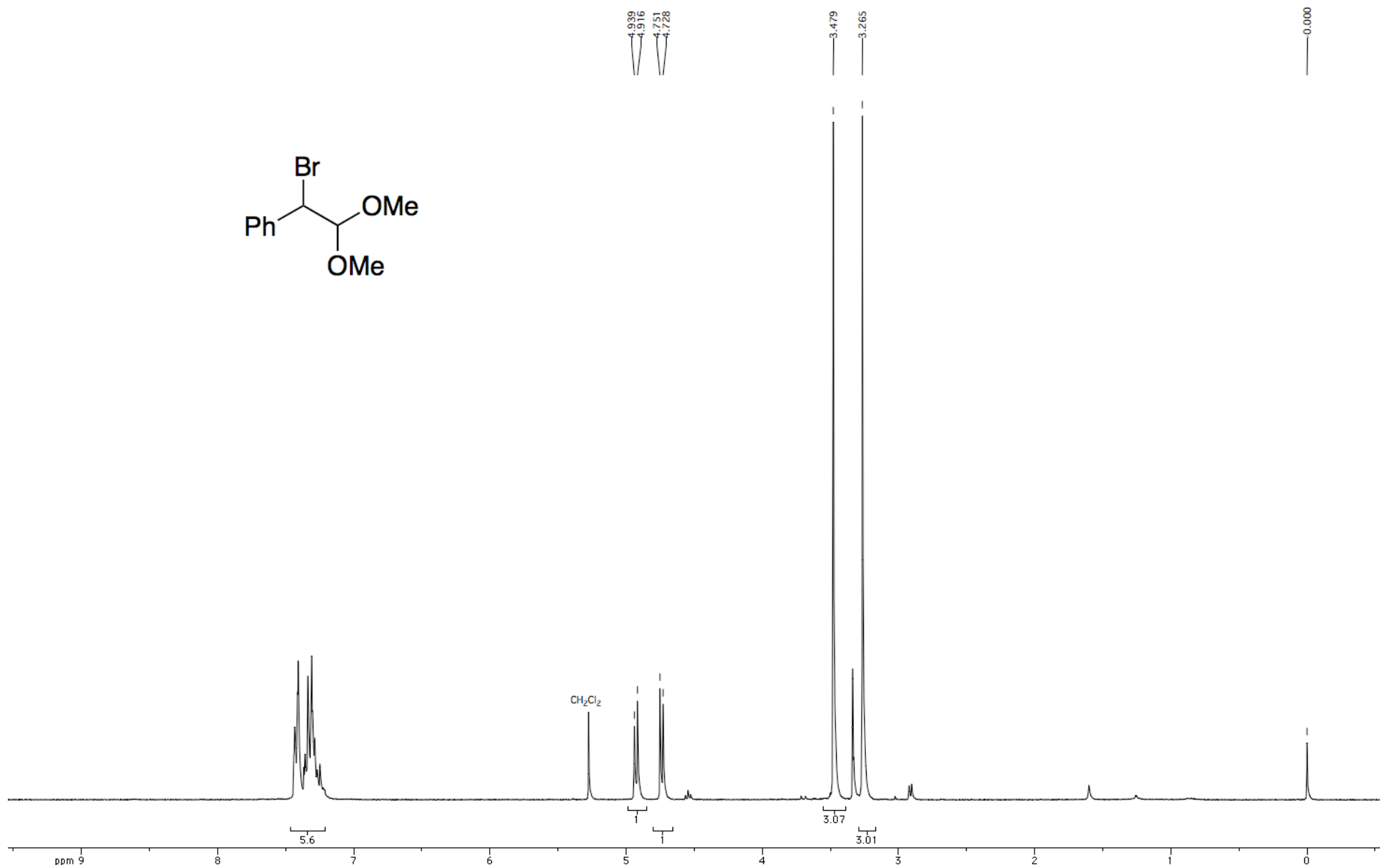
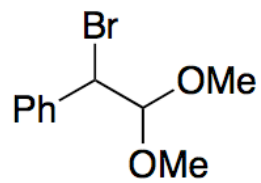
### **Structure and Thermal Reactivity of Some 2-Substituted 1,3-Oxathiolane S-Oxides**

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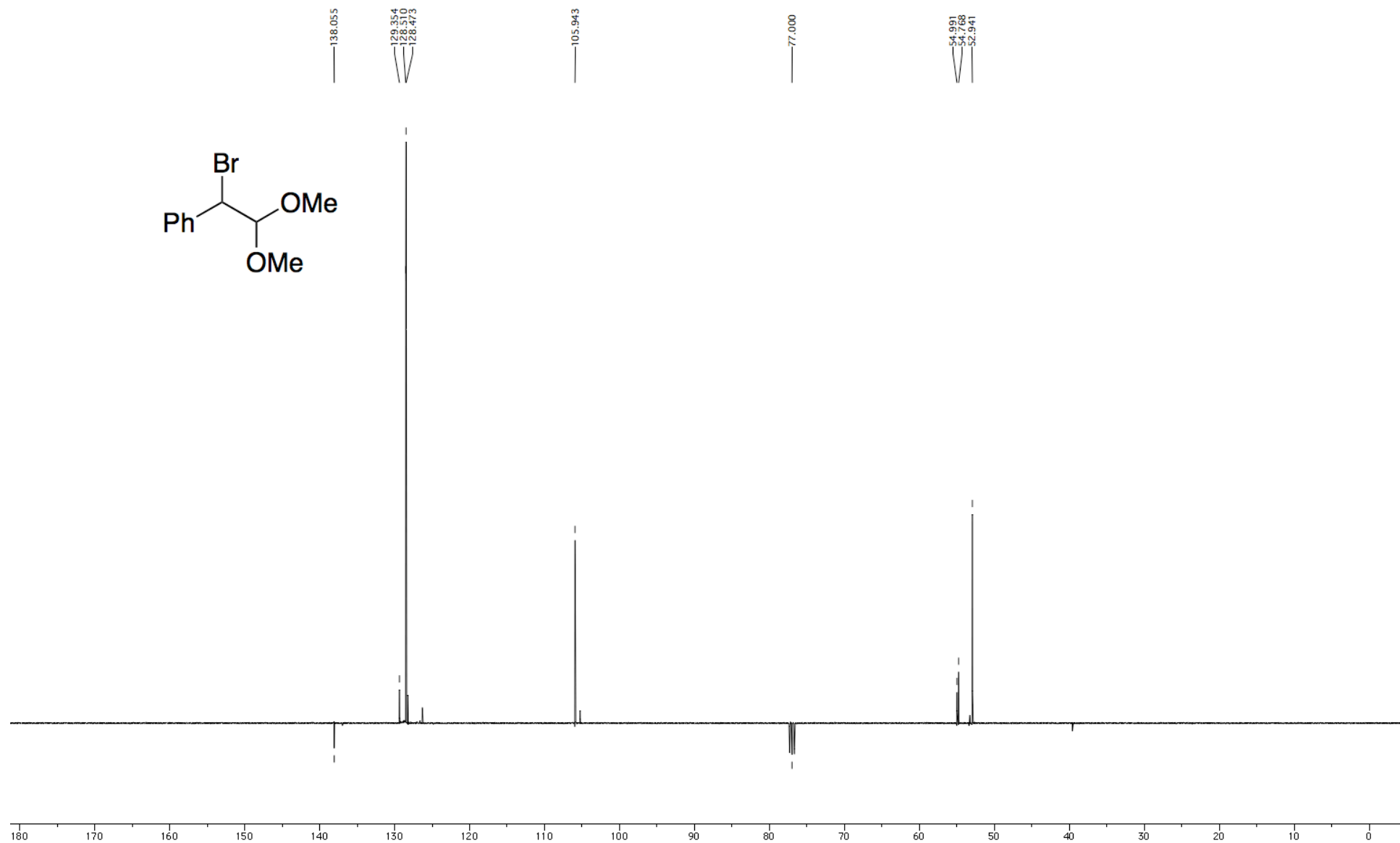
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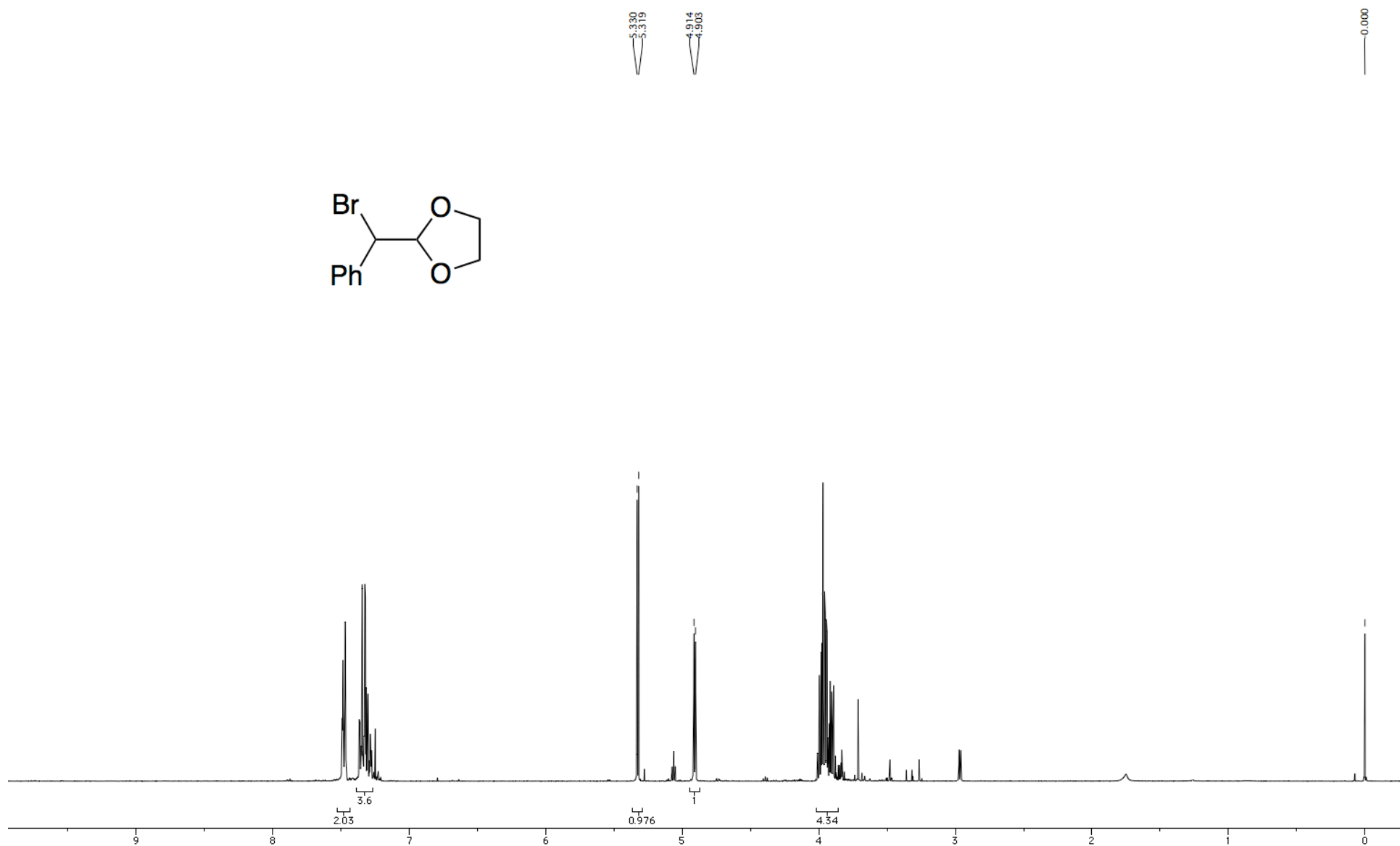
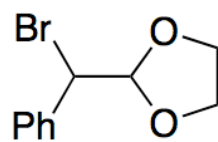
300 MHz  $^1\text{H}$  NMR spectrum of  $\alpha$ -Bromophenylacetaldehyde Dimethyl Acetal



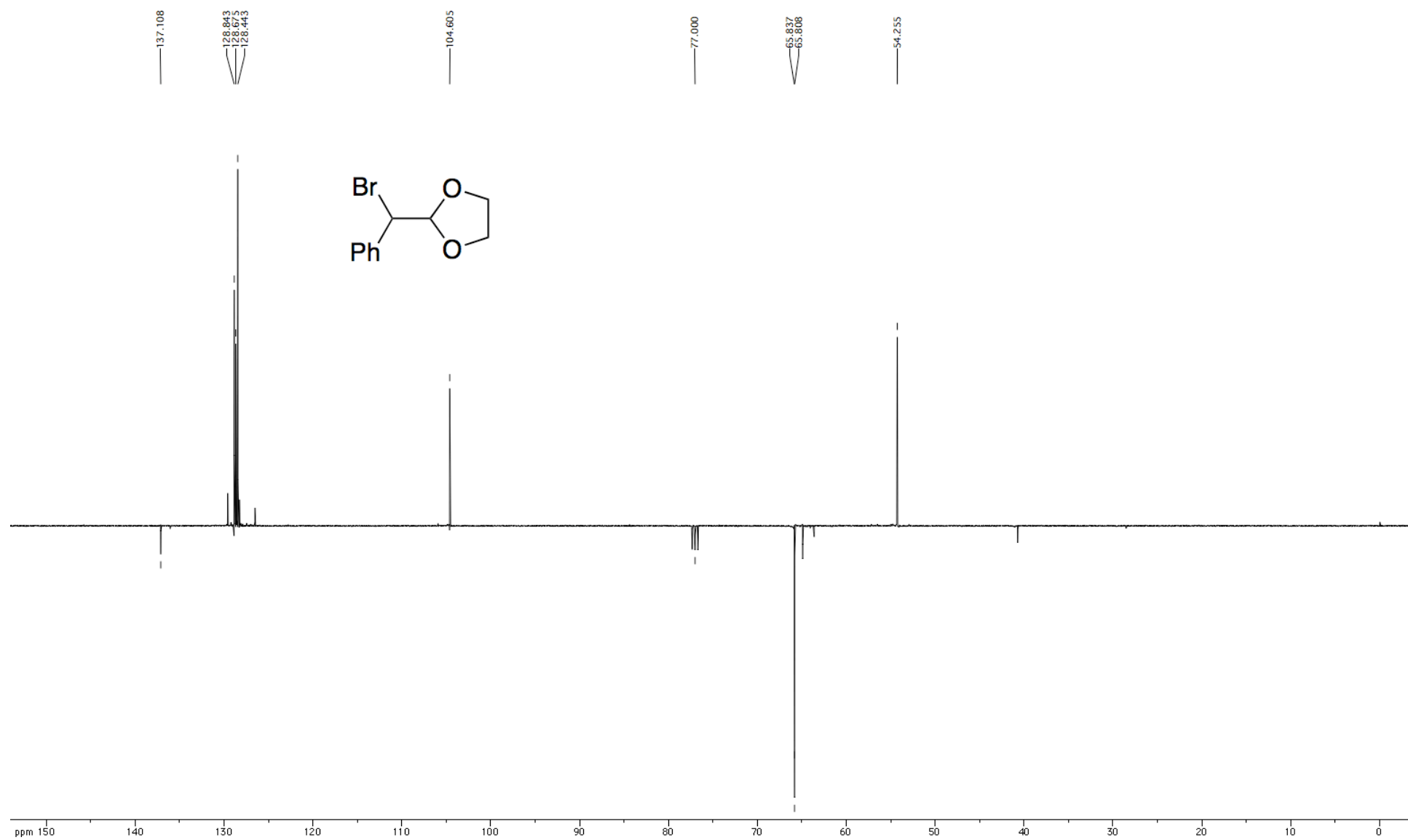
100 MHz  $^{13}\text{C}$  NMR DEPTQ spectrum of  $\alpha$ -Bromophenylacetaldehyde Dimethyl Acetal



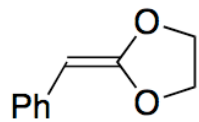
400 MHz  $^1\text{H}$  NMR spectrum of 2-( $\alpha$ -Bromobenzyl)-1,3-dioxolane



100 MHz  $^{13}\text{C}$  NMR DEPTQ spectrum of 2-( $\alpha$ -Bromobenzyl)-1,3-dioxolane



400 MHz <sup>1</sup>H NMR spectrum of **1**

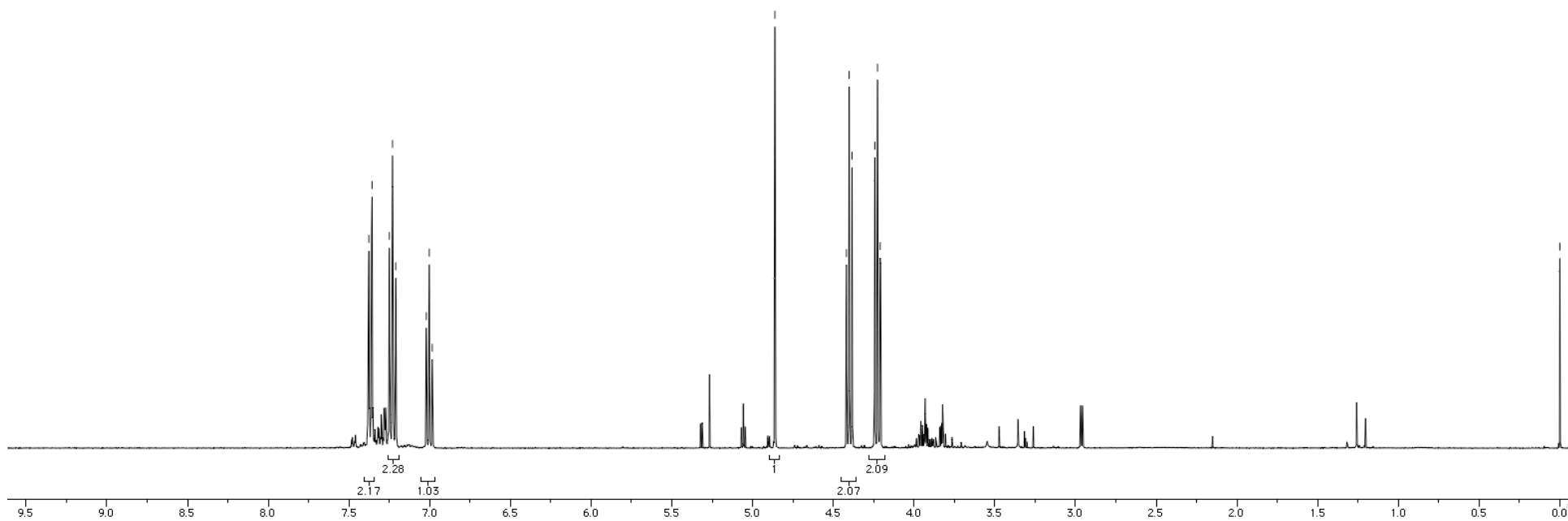


7.377  
7.370  
7.330  
7.210  
7.021  
7.003  
6.984

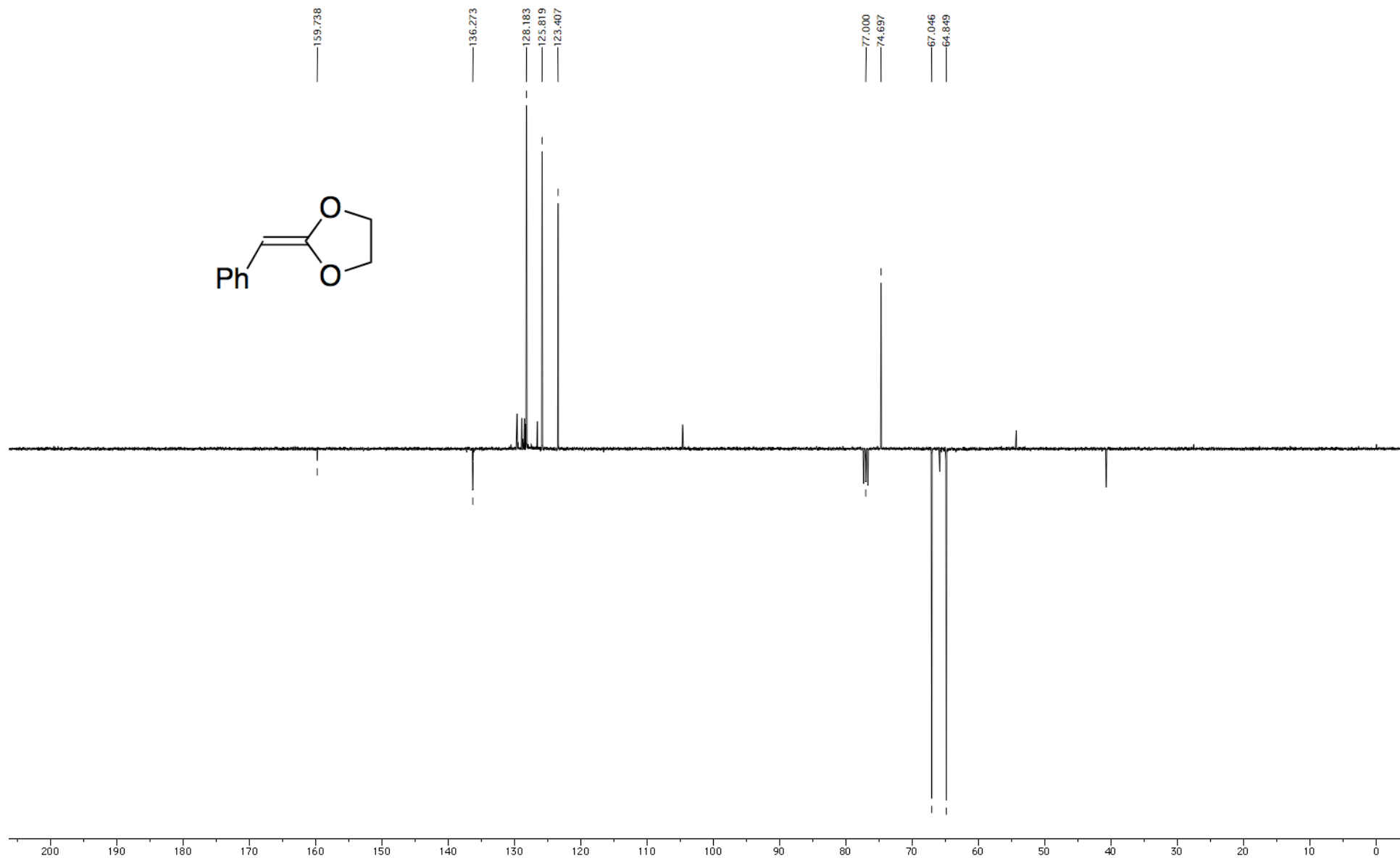
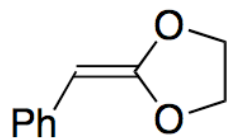
4.862

4.419  
4.402  
4.384  
4.276  
4.210

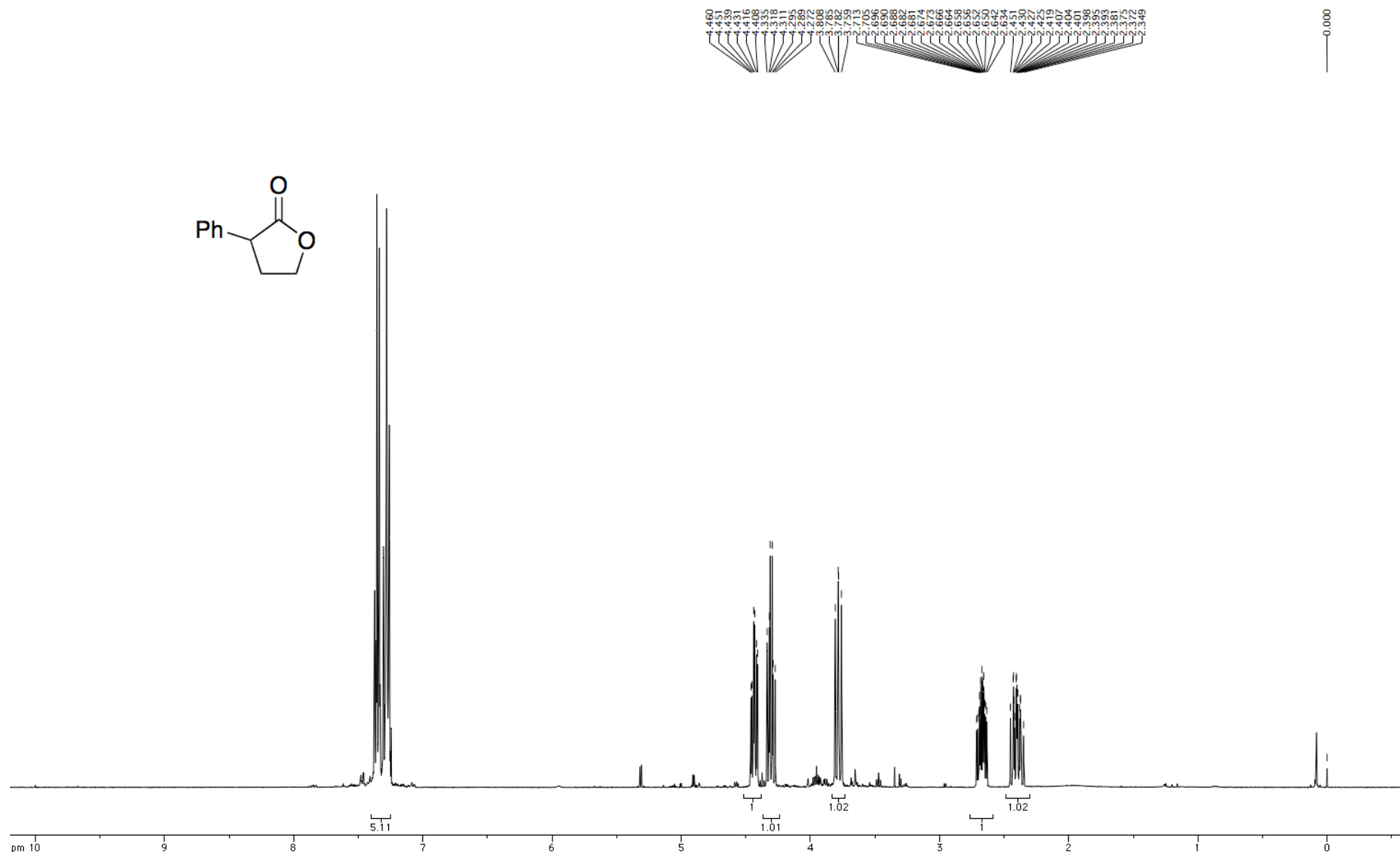
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100 MHz  $^{13}\text{C}$  NMR DEPTQ spectrum of **1**

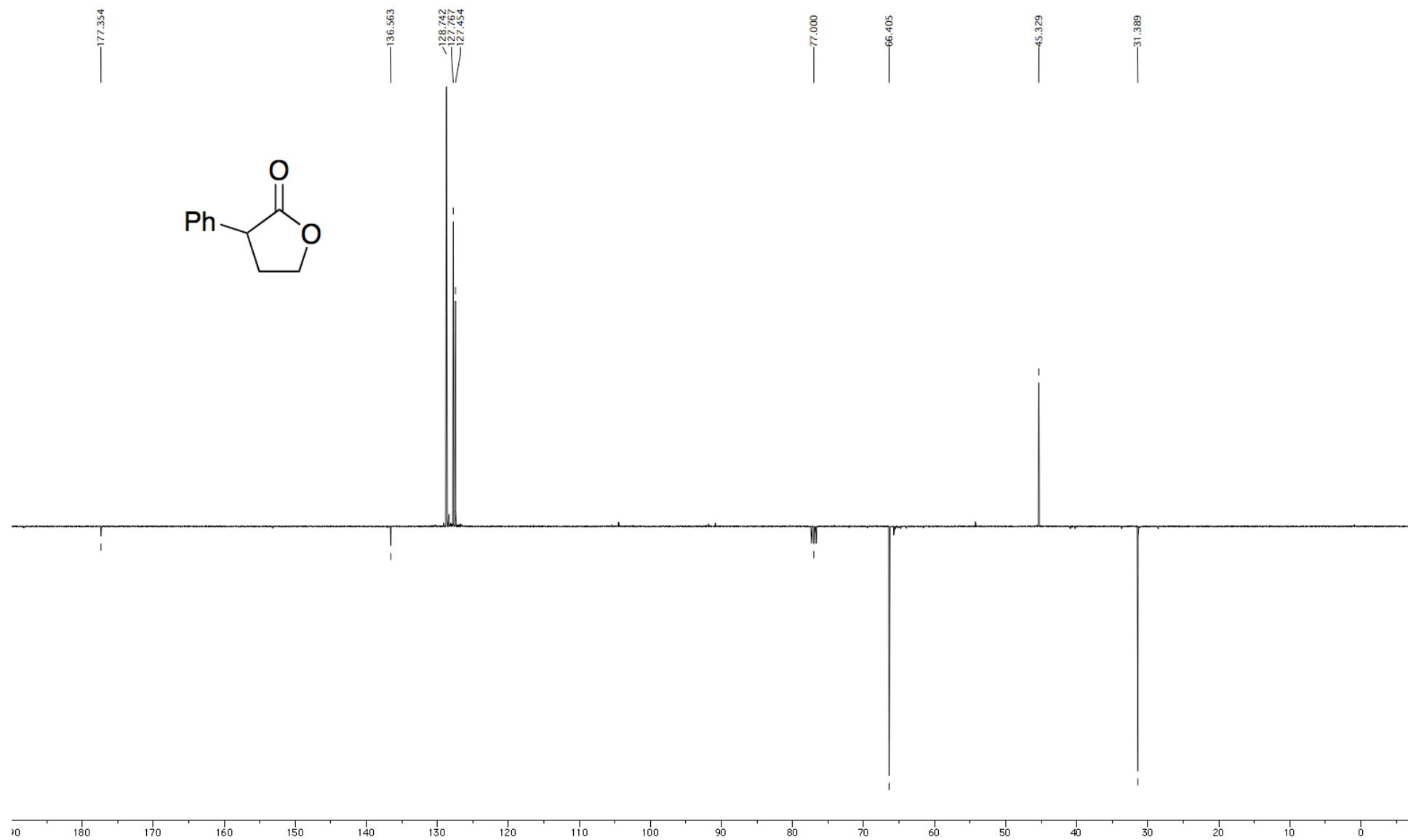


400 MHz  $^1\text{H}$  NMR spectrum of **3**

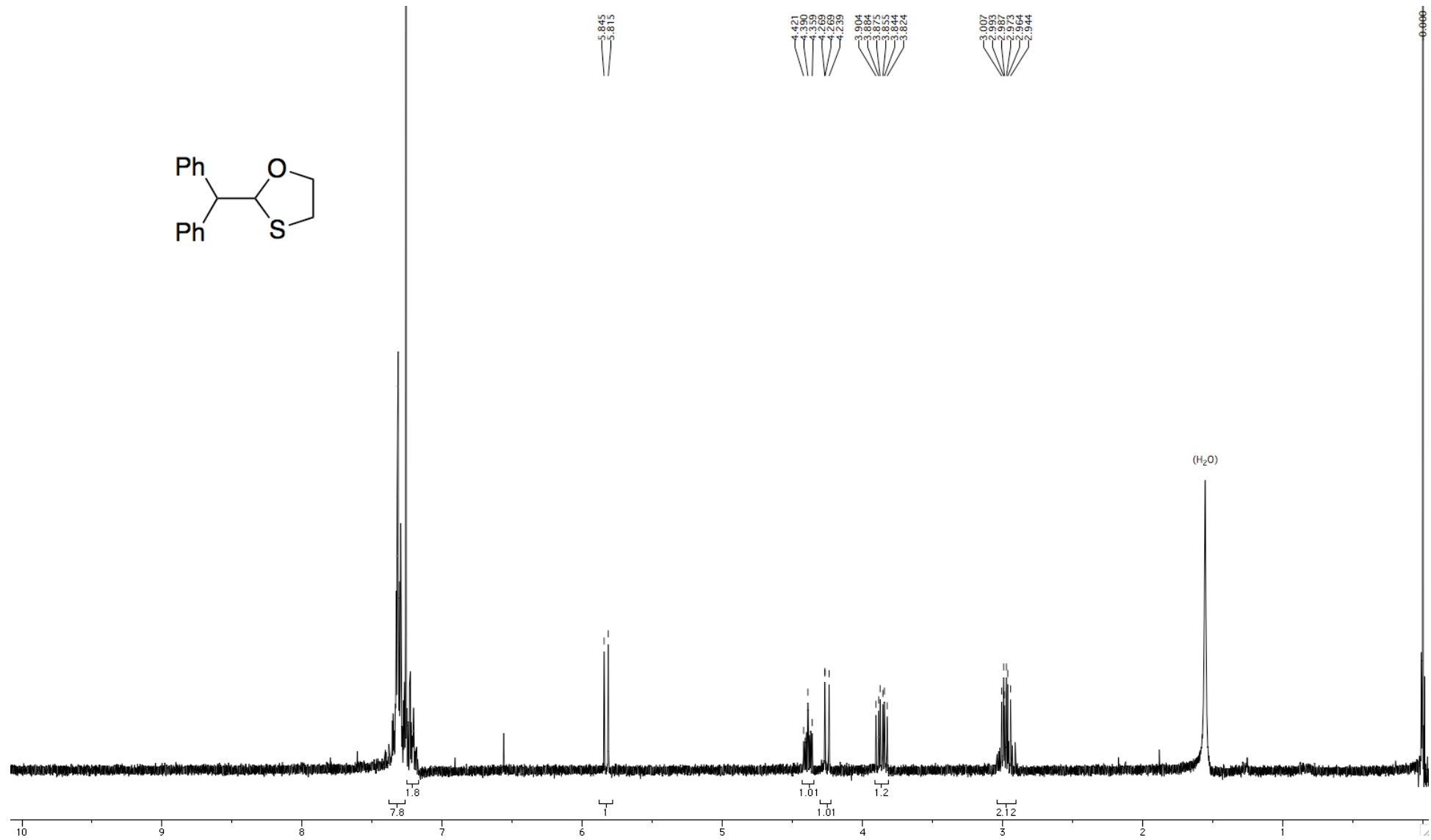
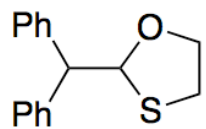




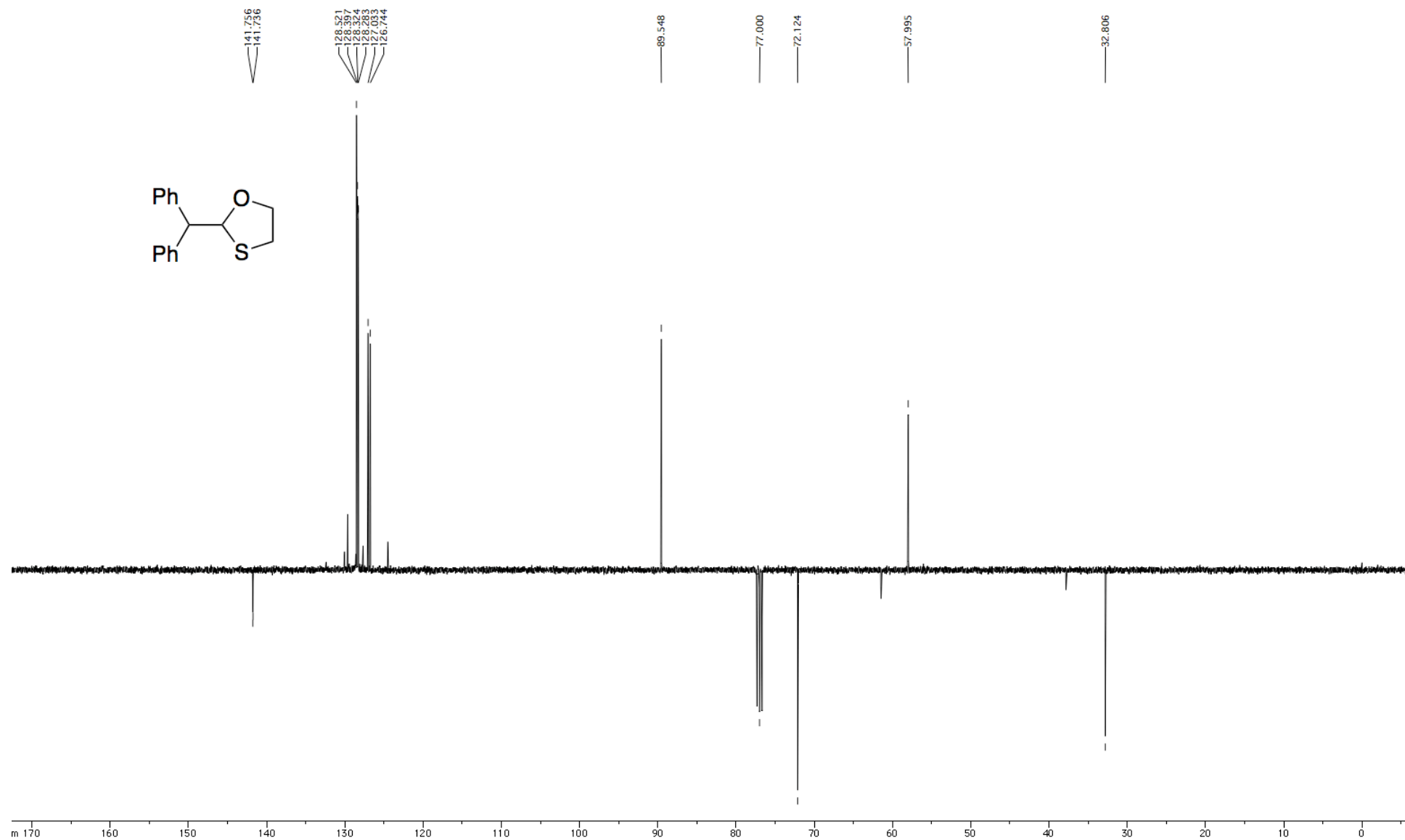
100 MHz  $^{13}\text{C}$  NMR DEPTQ spectrum of **3**



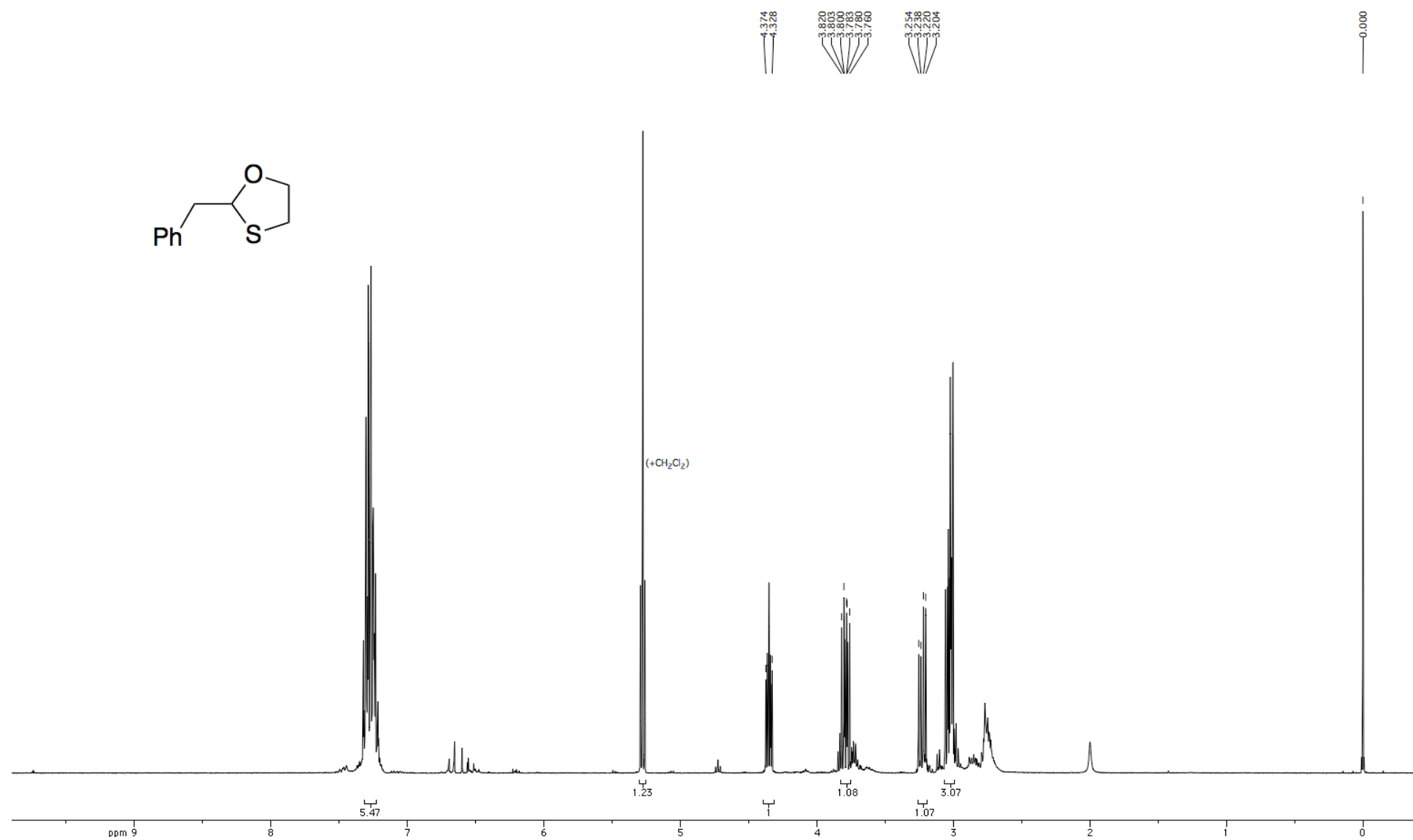
300 MHz  $^1\text{H}$  NMR spectrum of **5**



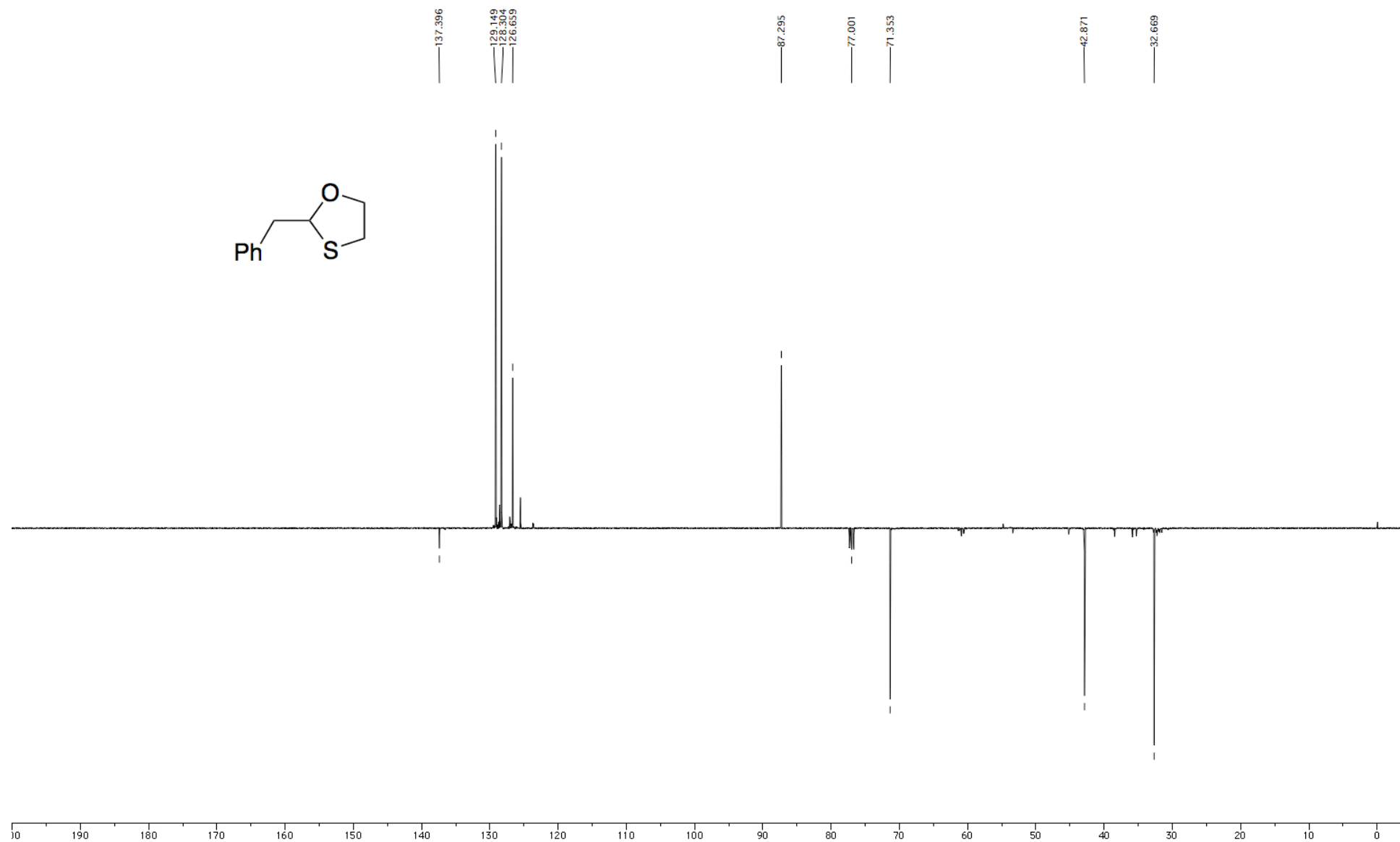
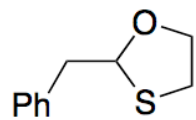
100 MHz  $^{13}\text{C}$  NMR DEPTQ spectrum of **5**



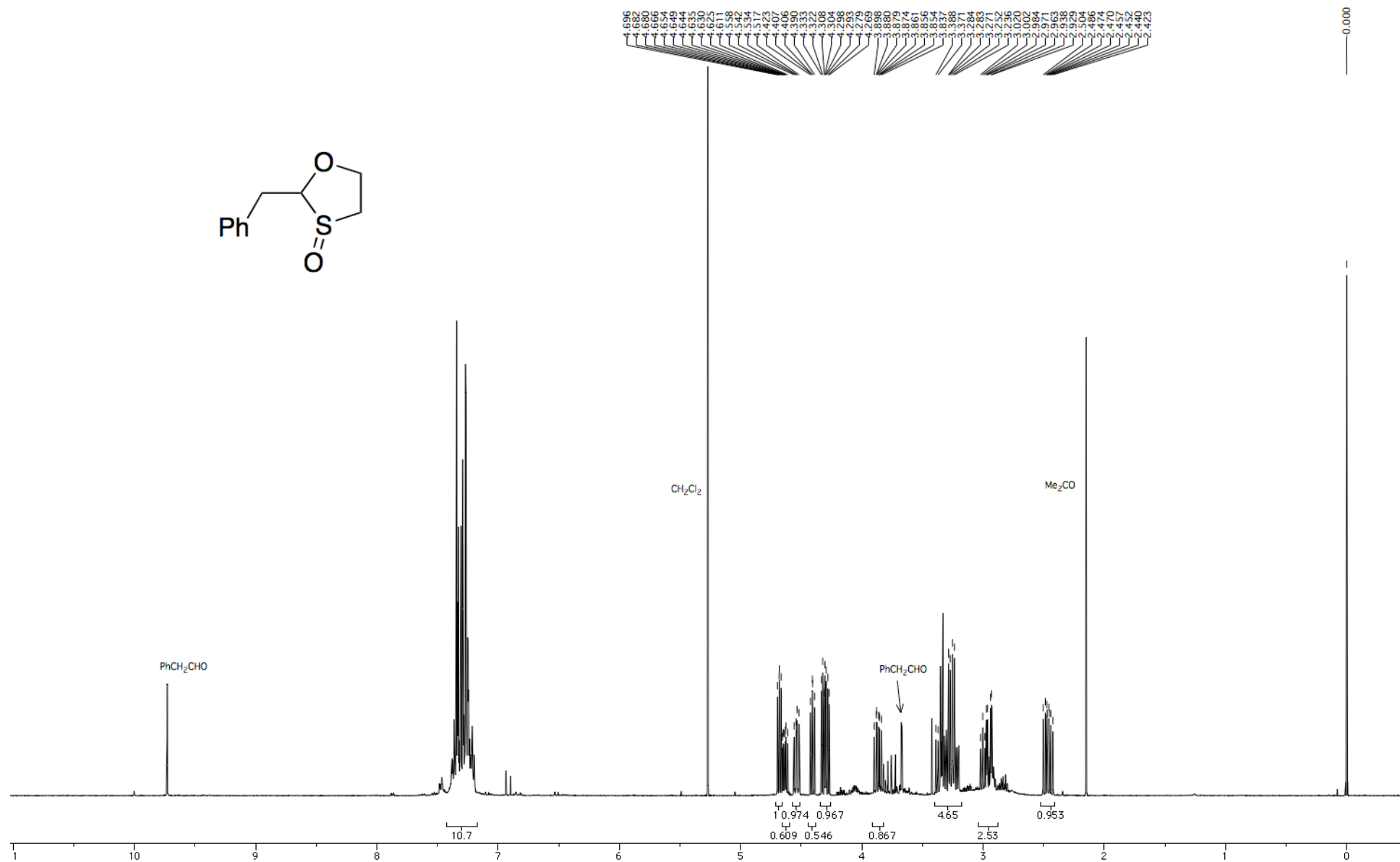
400 MHz  $^1\text{H}$  NMR spectrum of **6**



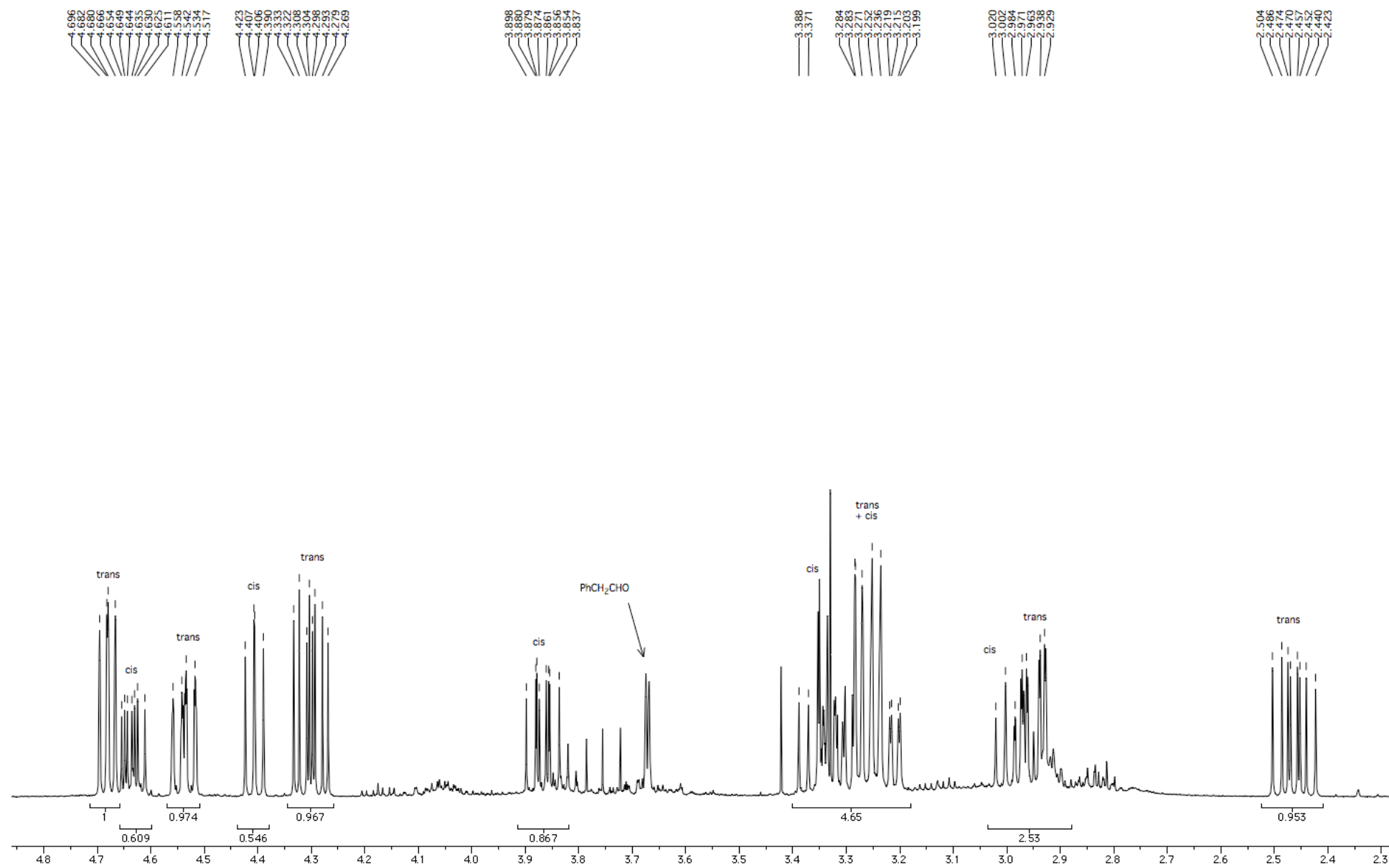
100 MHz  $^{13}\text{C}$  NMR DEPTQ spectrum of **6**



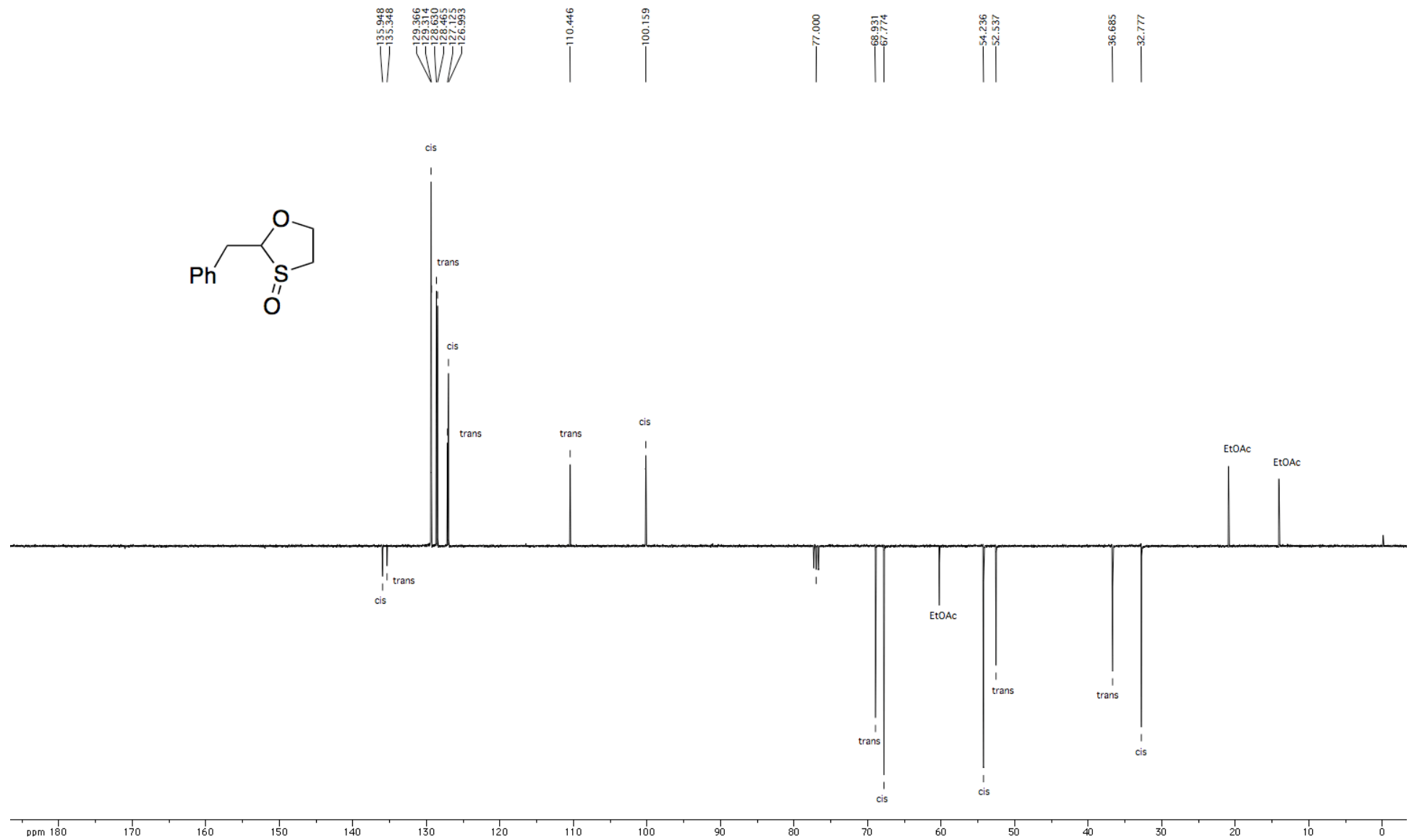
400 MHz  $^1\text{H}$  NMR spectrum of 7



400 MHz  $^1\text{H}$  NMR spectrum of **7** (Expansion)

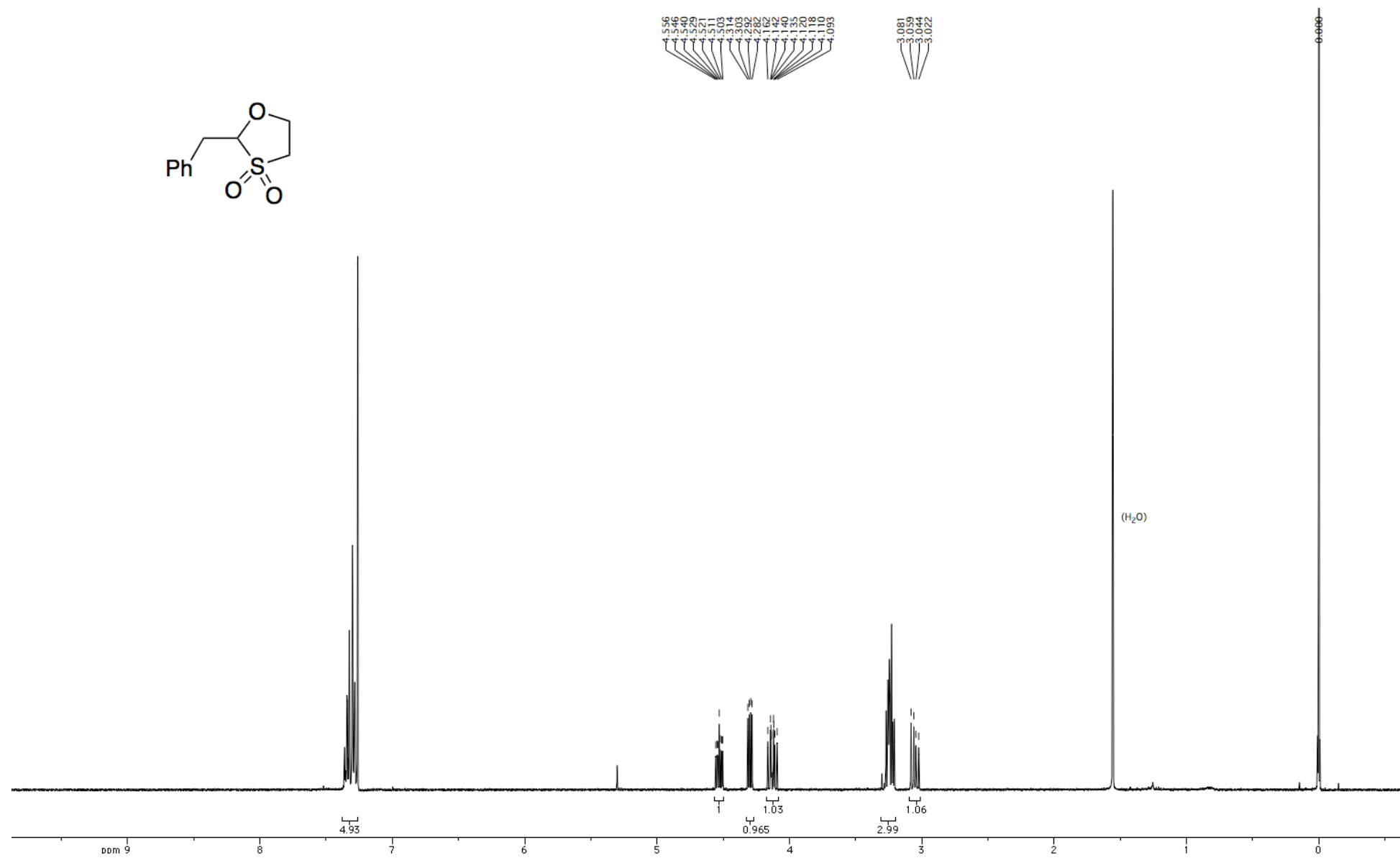
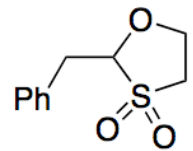


100 MHz  $^{13}\text{C}$  NMR DEPTQ spectrum of 7

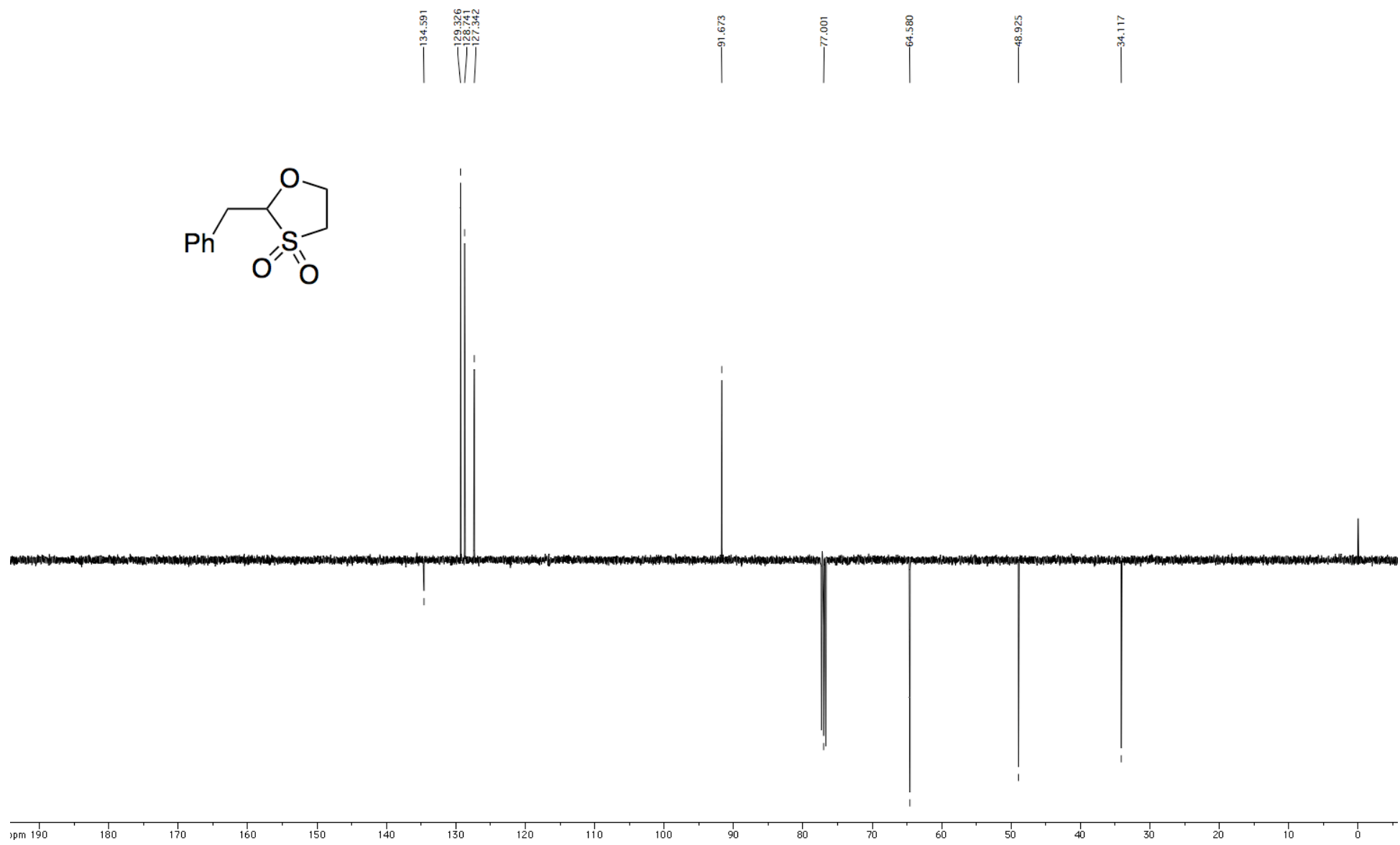




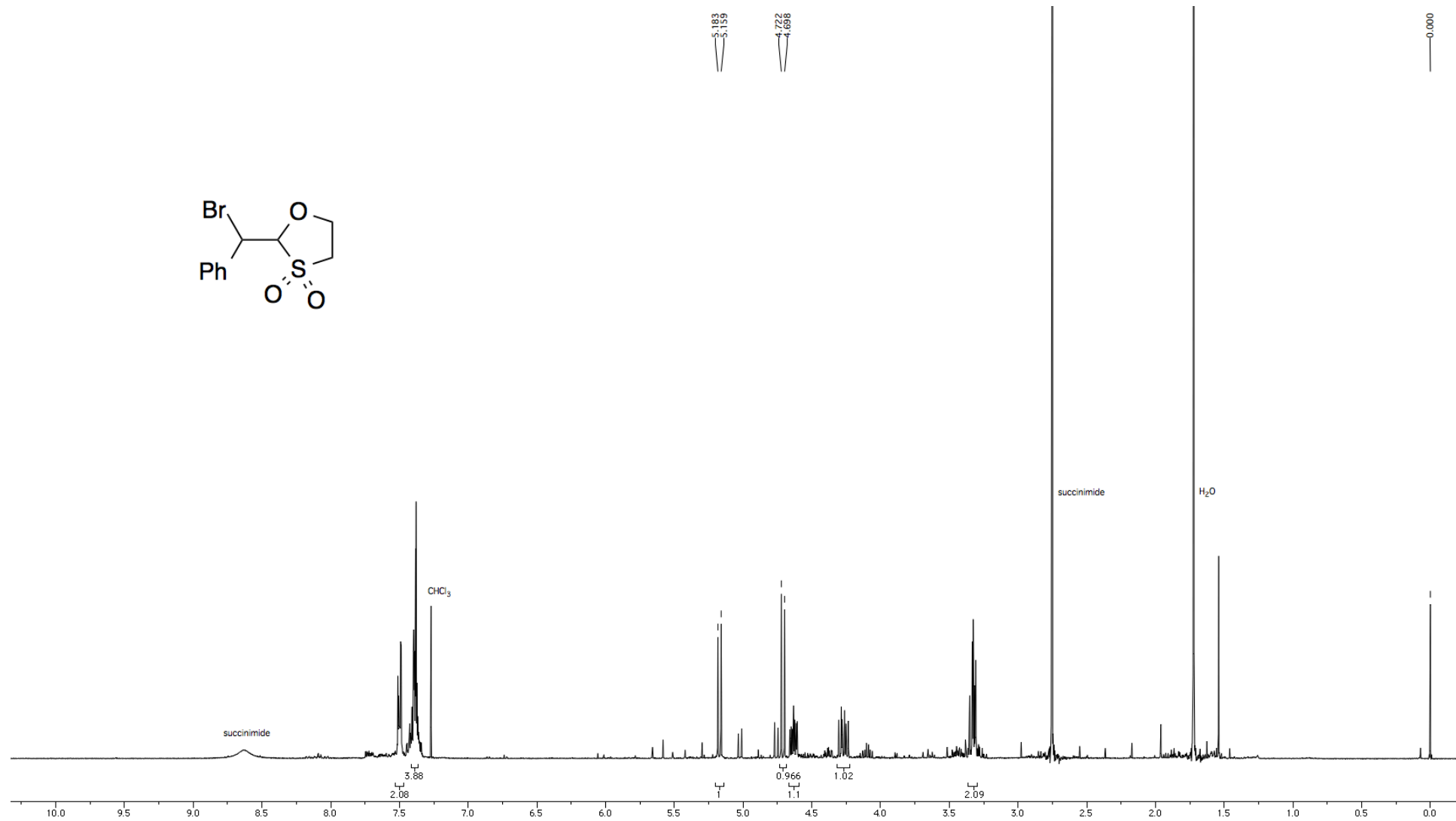
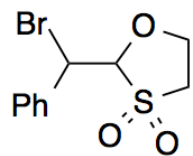
400 MHz <sup>1</sup>H NMR spectrum of **8**



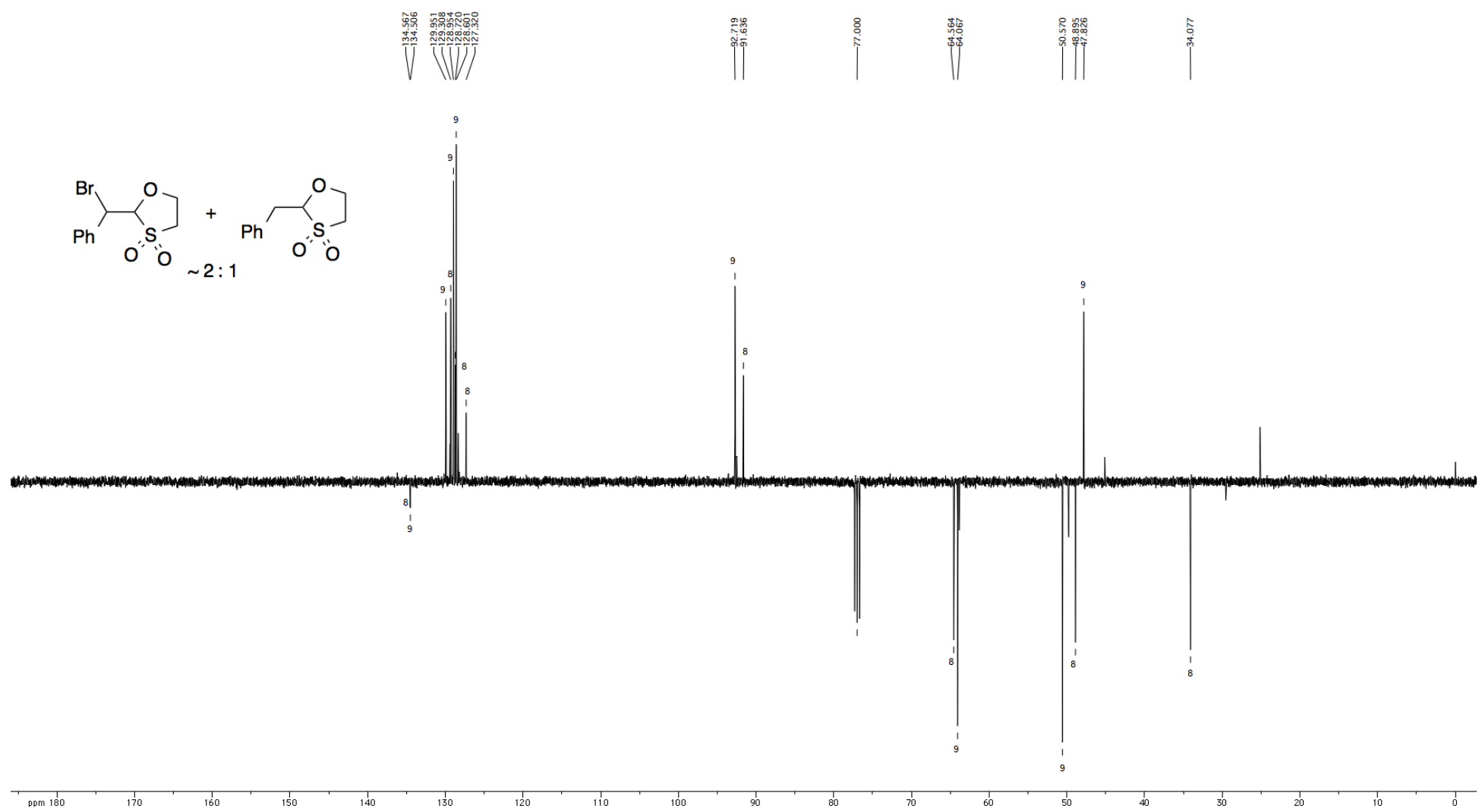
100 MHz  $^{13}\text{C}$  NMR DEPTQ spectrum of **8**



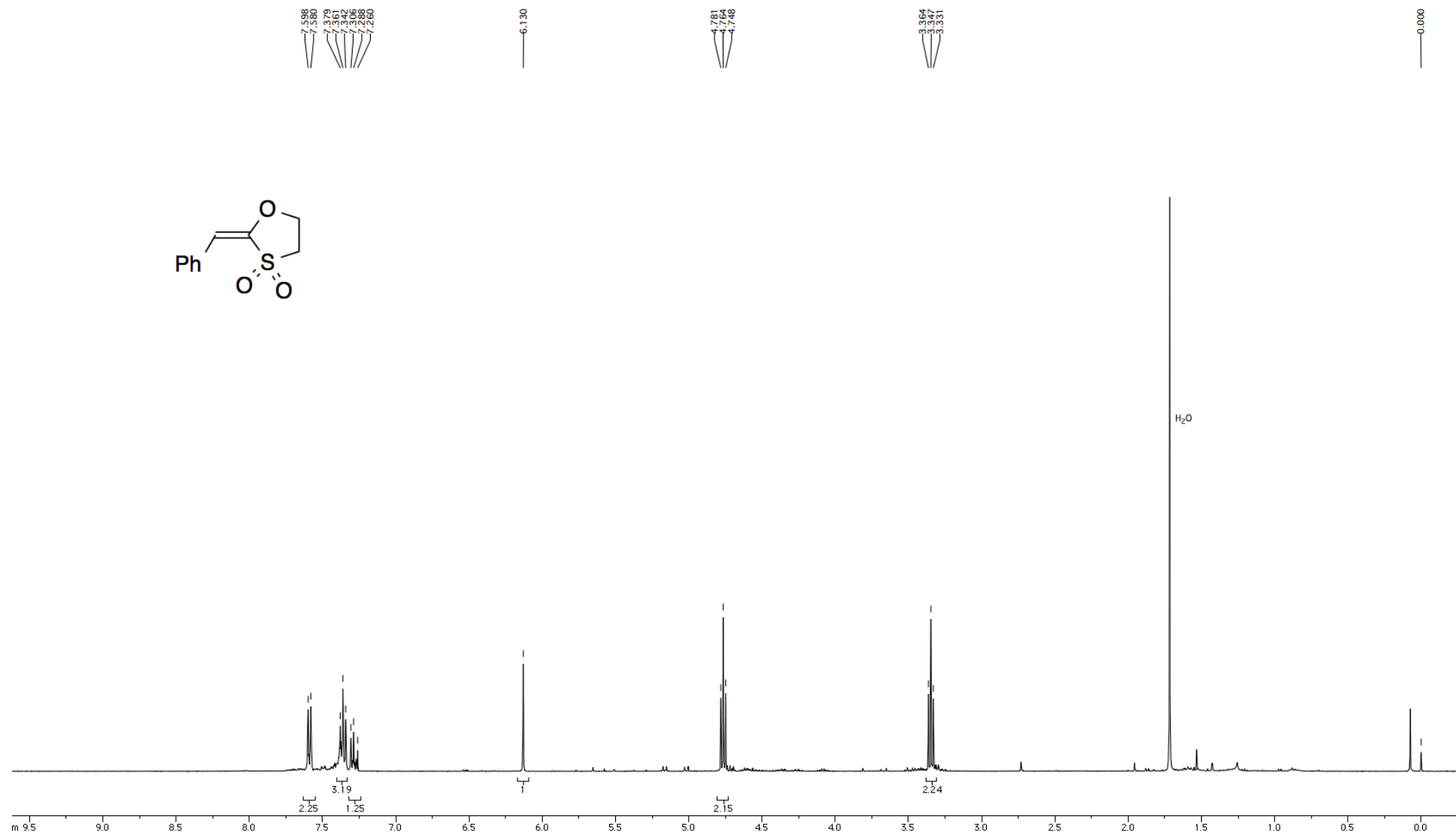
400 MHz  $^1\text{H}$  NMR spectrum of **9**



100 MHz  $^{13}\text{C}$  NMR DEPTQ spectrum of **9** (containing some unreacted **8**)

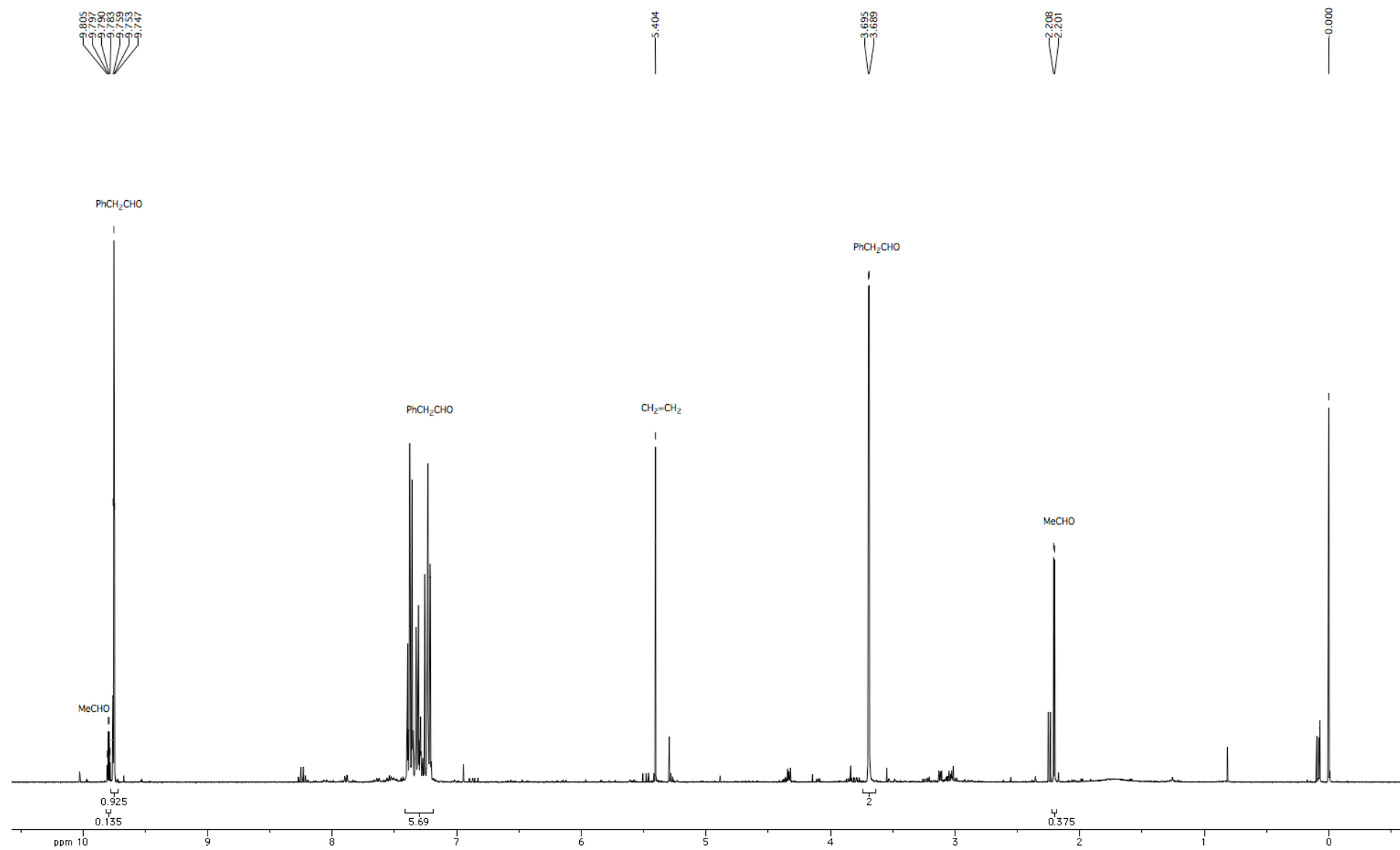


400 MHz  $^1\text{H}$  NMR spectrum of **10**

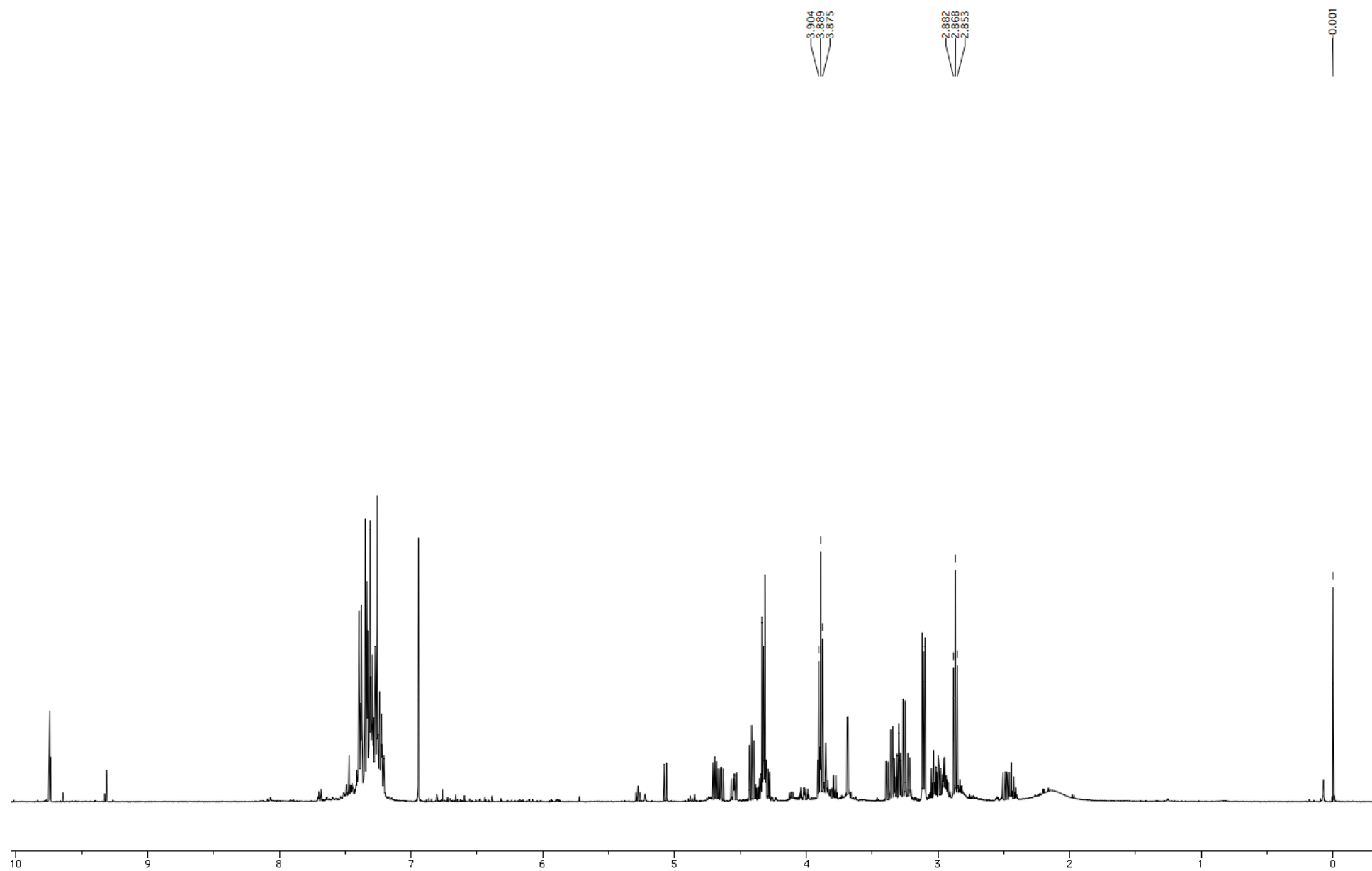




400 MHz  $^1\text{H}$  NMR spectrum of FVP products from **7** (500 °C, cold trap)

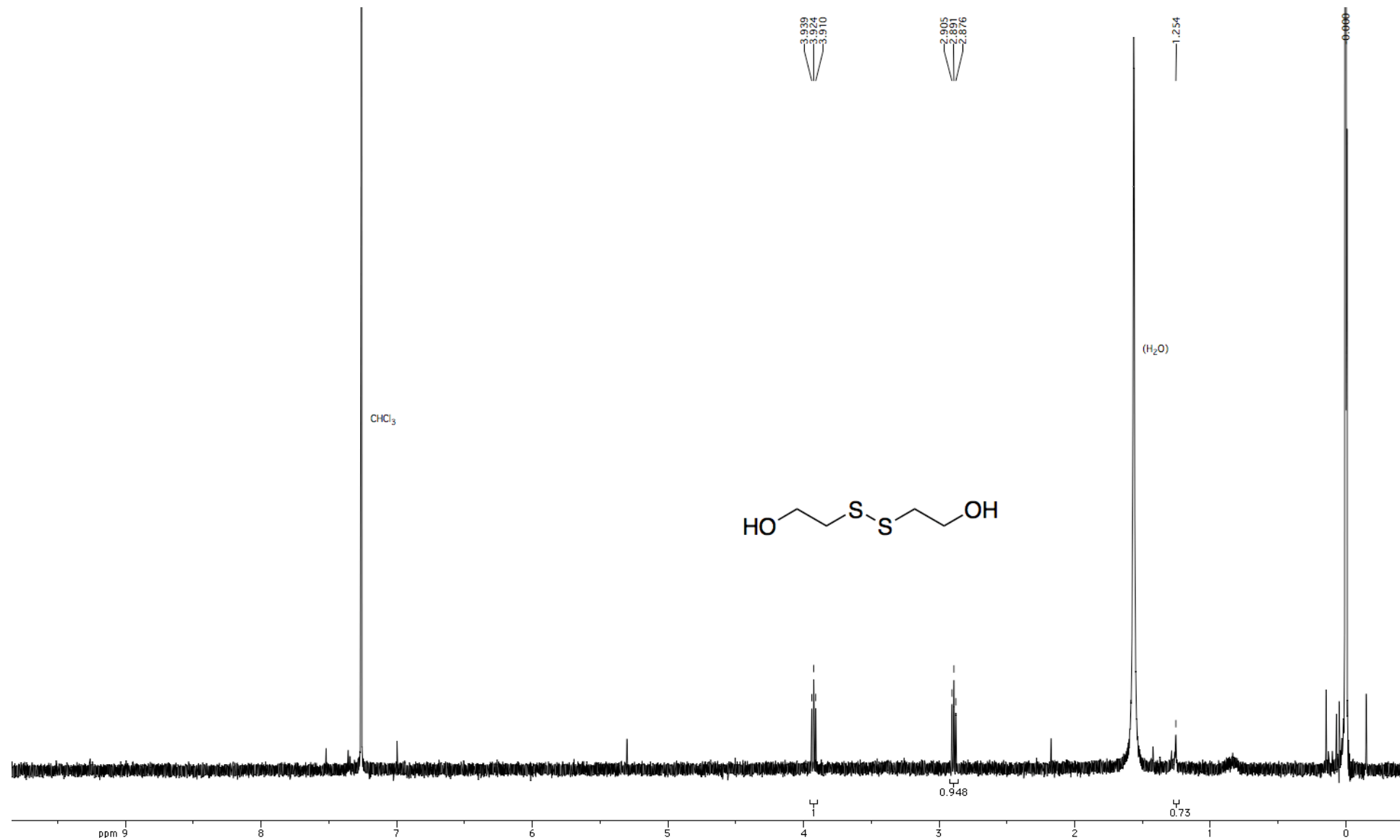


400 MHz  $^1\text{H}$  NMR spectrum of FVP products from **7** (450 °C, furnace exit product)

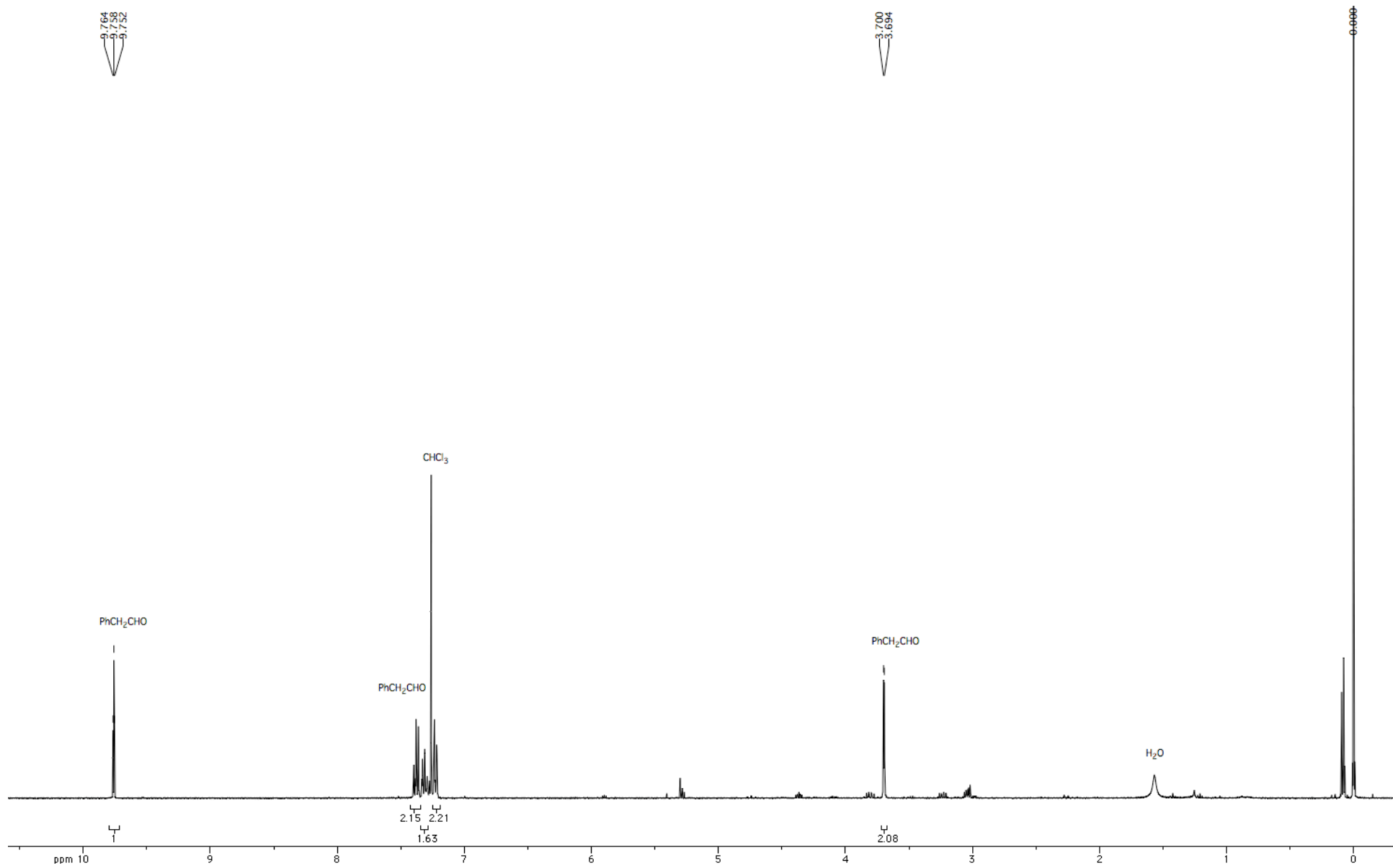




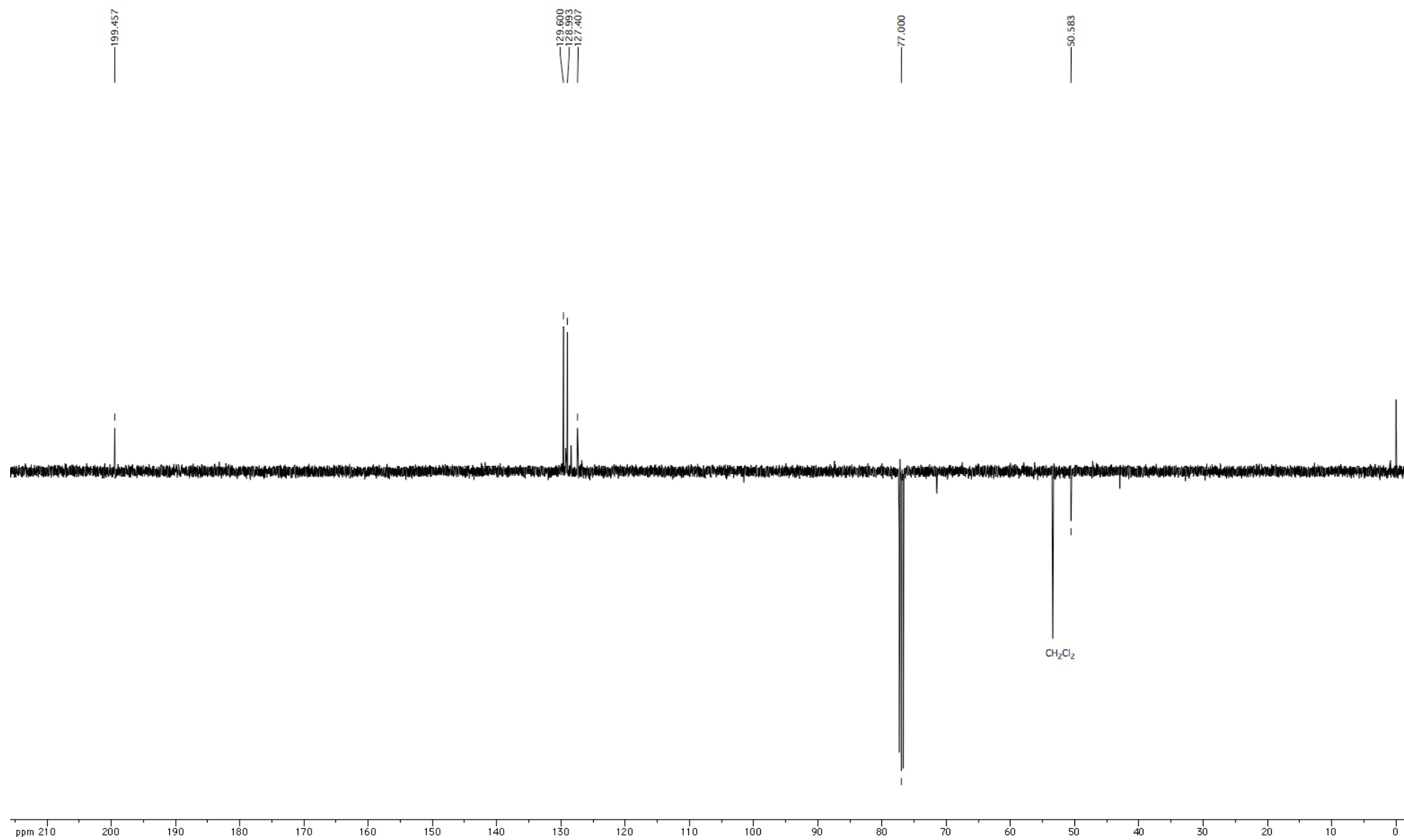
300 MHz  $^1\text{H}$  NMR spectrum of FVP products from 7 (450 °C, furnace exit product after preparative TLC)



400 MHz  $^1\text{H}$  NMR spectrum of FVP products from **8** (cold trap)



100 MHz DEPTQ  $^{13}\text{C}$  NMR spectrum of FVP products from **8** (cold trap)



100 MHz DEPTQ  $^{13}\text{C}$  NMR spectrum of FVP products from **10** (containing **8**)

