

# Supplementary Materials: When Phosphosugars Meet Gold: Synthesis and Catalytic Activities of Phostones and Polyhydroxylated Phosphonite Au(I) Complexes

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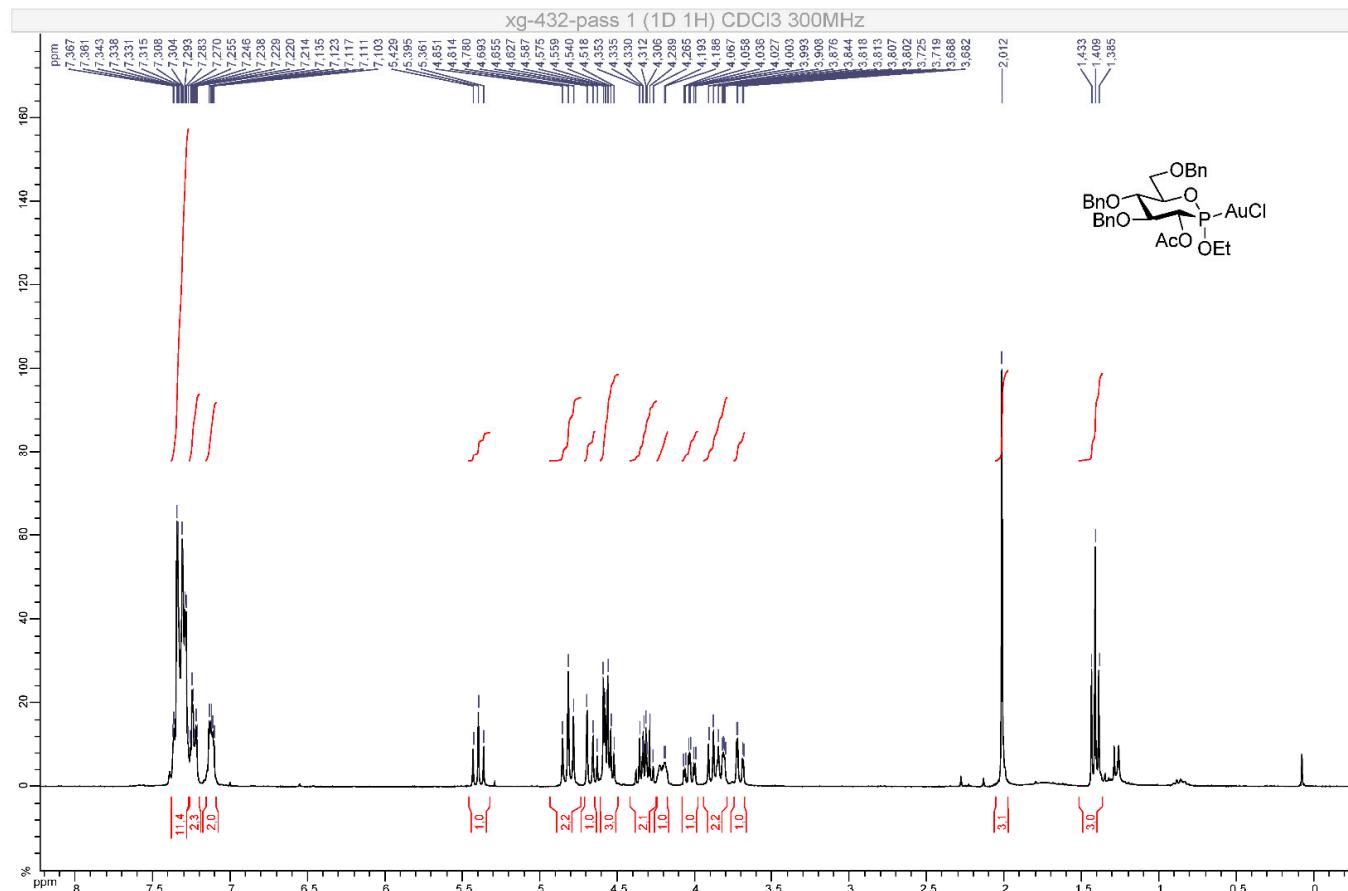
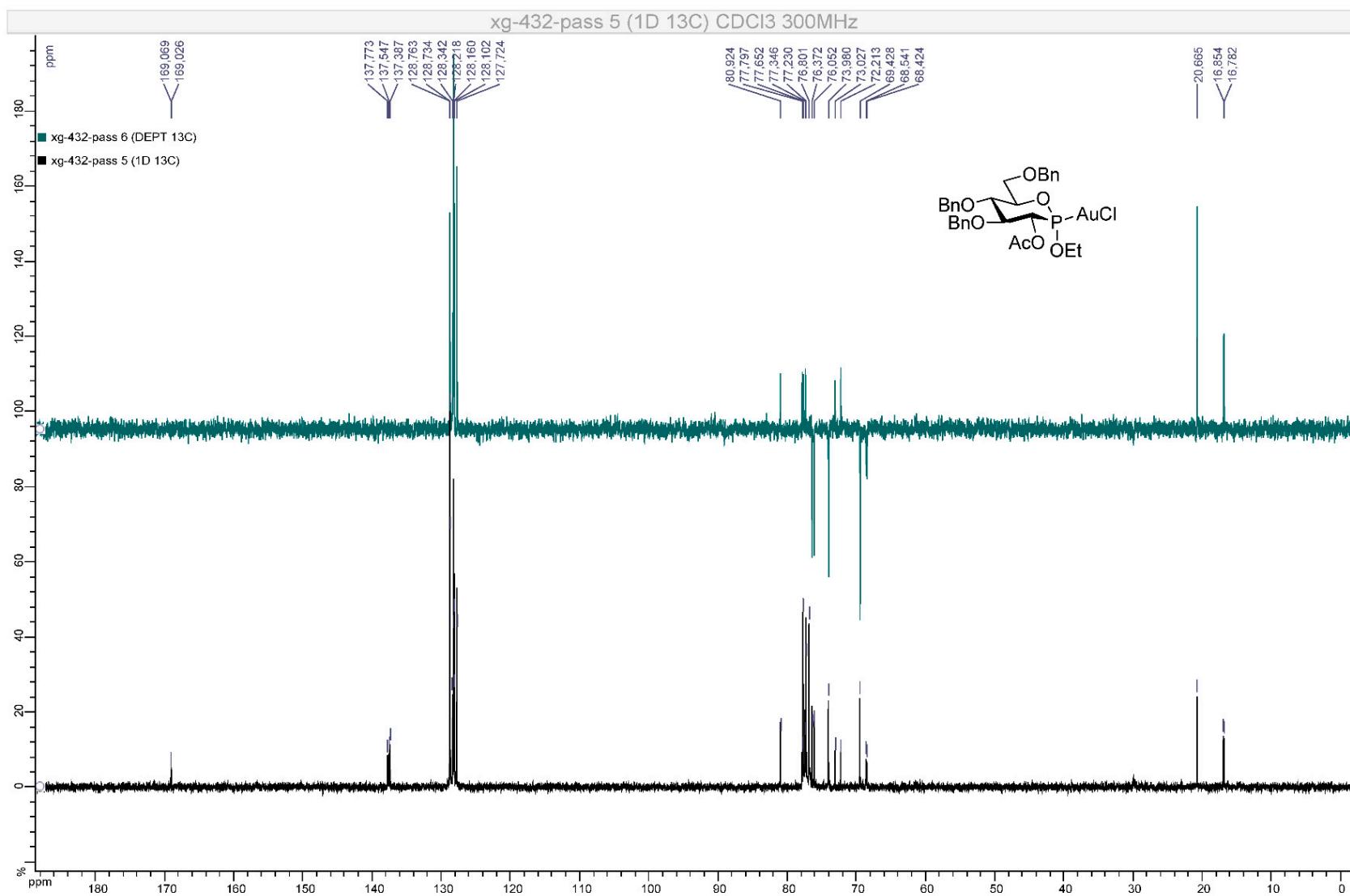
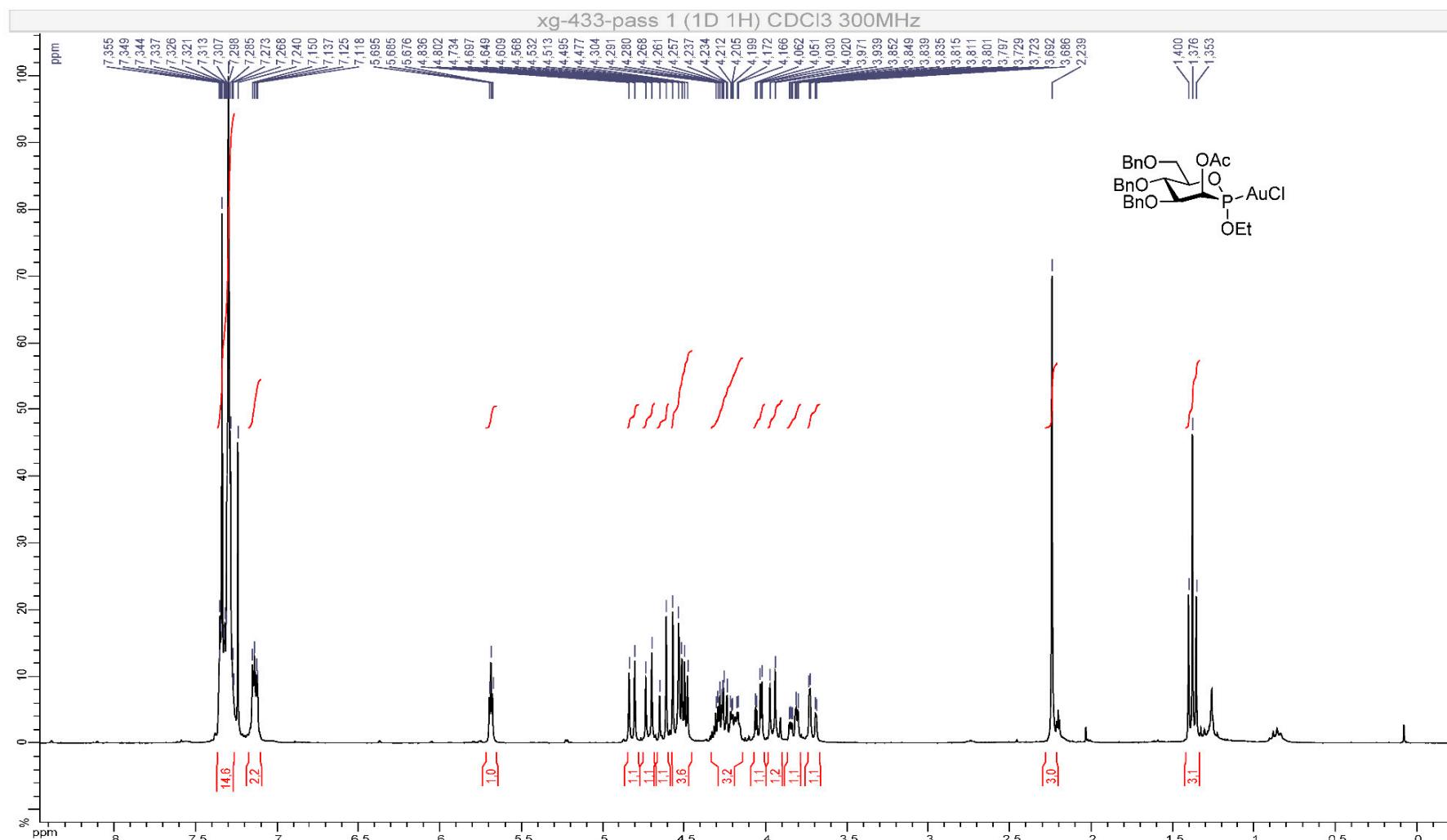


Figure S1. <sup>1</sup>H-NMR (300 MHz,  $\text{CDCl}_3$ ) of 6a.



**Figure S2.** <sup>13</sup>C-NMR (75 MHz, CDCl<sub>3</sub>) **6a**.



**Figure S3.** <sup>1</sup>H-NMR (300 MHz, CDCl<sub>3</sub>) **6b.**

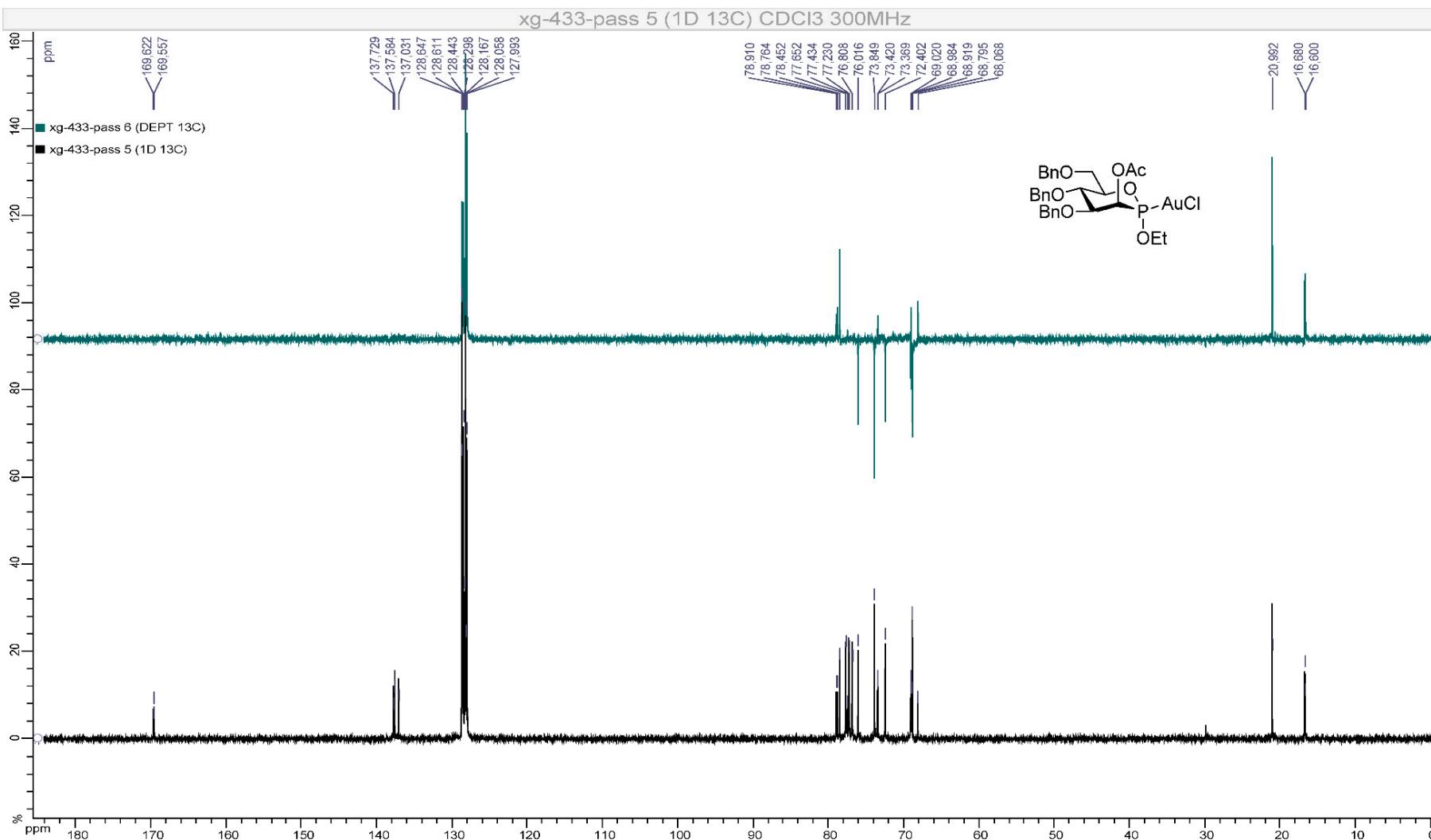
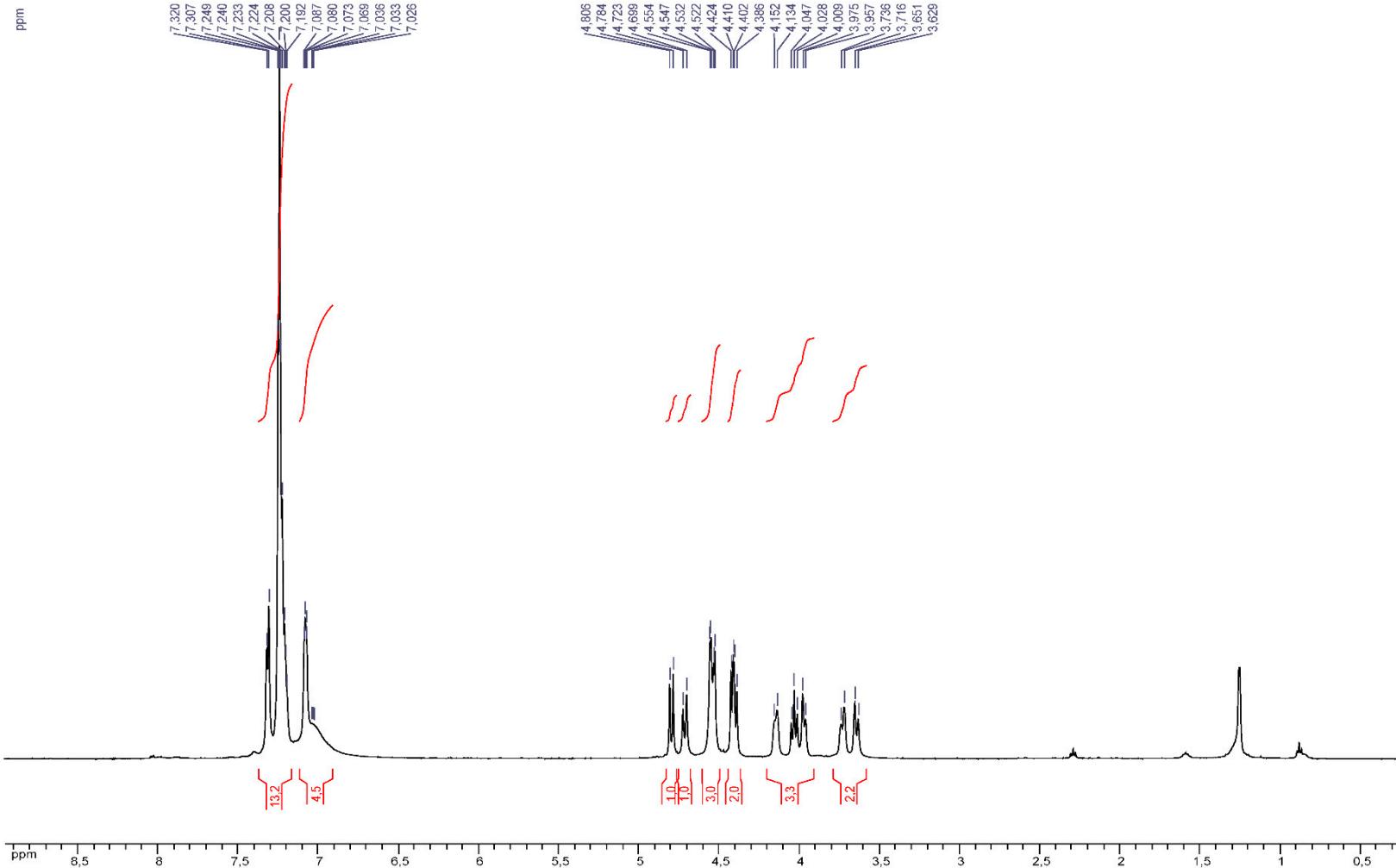


Figure S4. <sup>13</sup>C-NMR (75 MHz, CDCl<sub>3</sub>) **6b**.



**Figure S5.**  $^1\text{H}$ -NMR (300 MHz,  $\text{CDCl}_3$ ) **2a.**

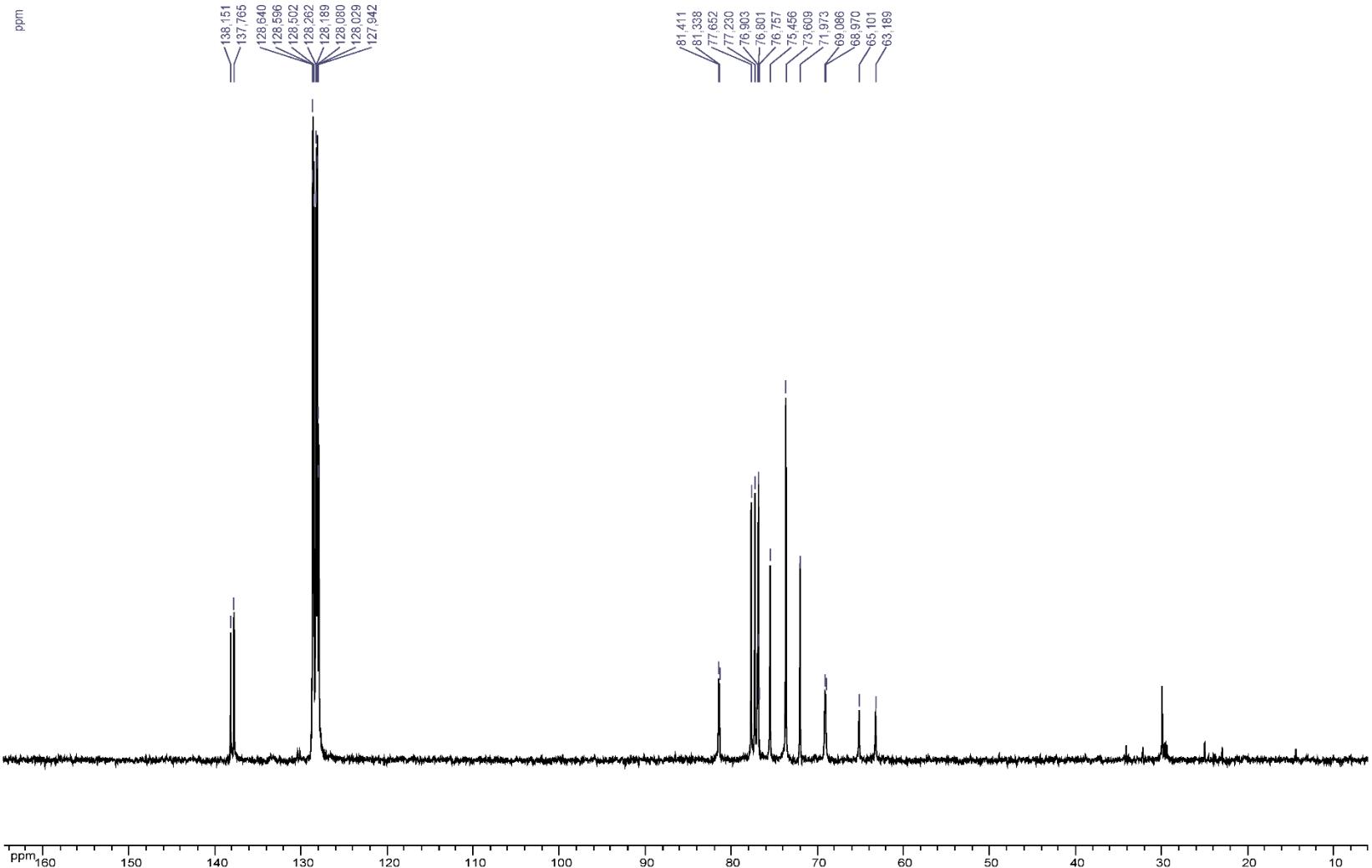
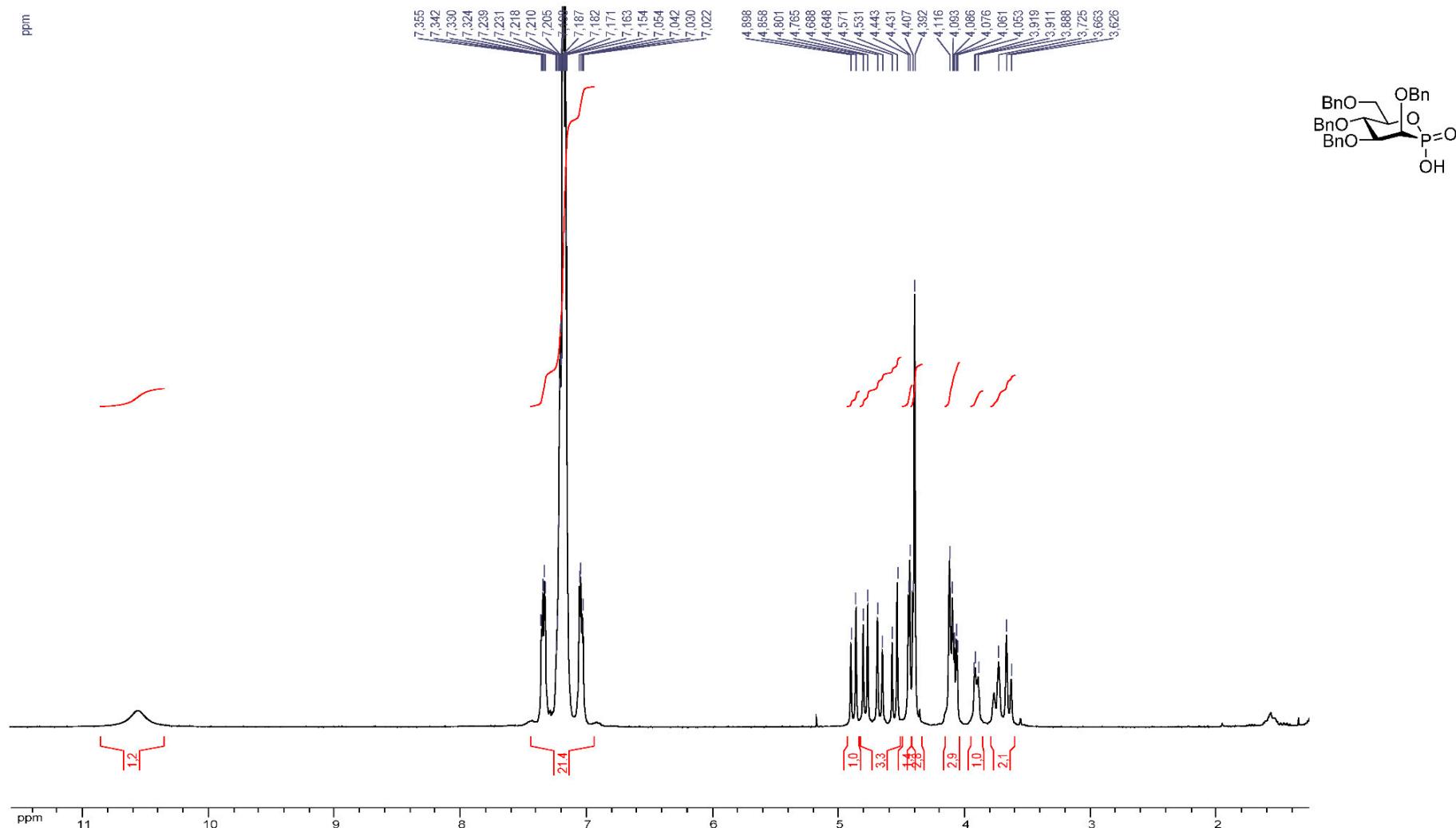
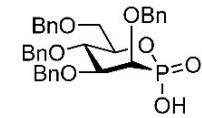


Figure S6.  $^{13}\text{C}$ -NMR (75 MHz,  $\text{CDCl}_3$ ) **2a**.

ppm



**Figure S7.** <sup>1</sup>H-NMR (500 MHz,  $\text{CDCl}_3$ ) **2b**.



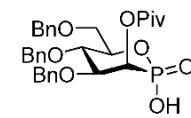
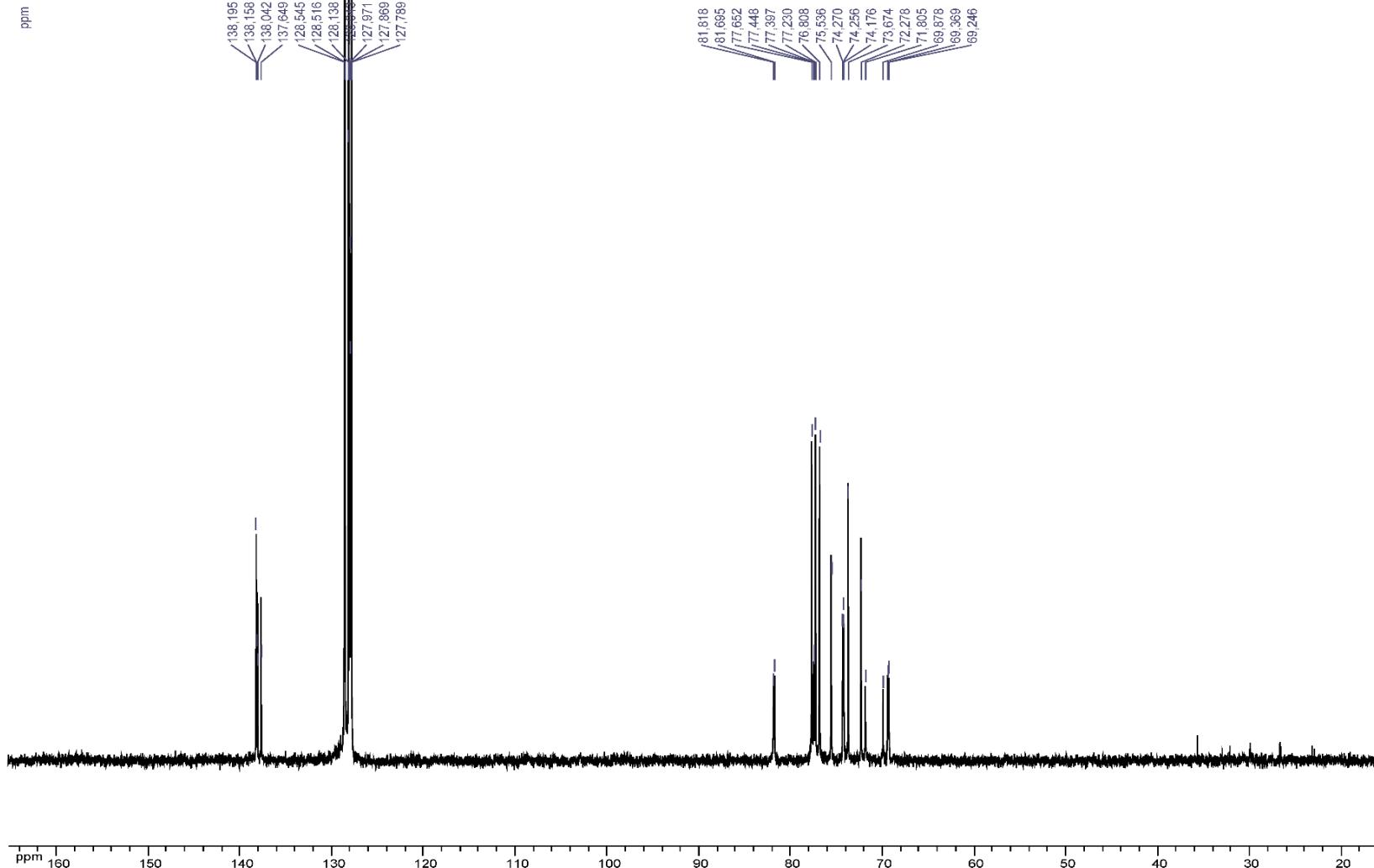
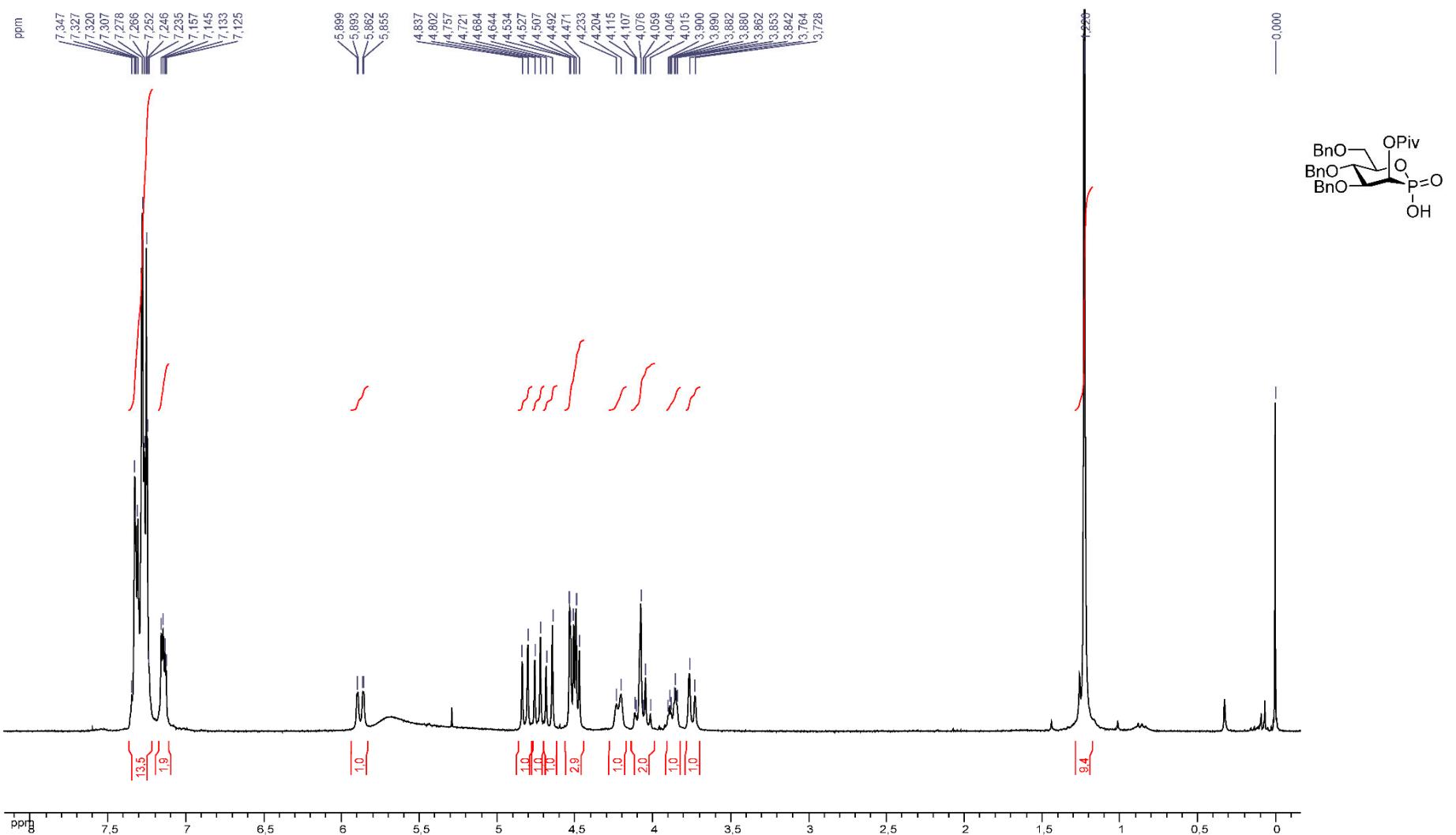


Figure S8.  $^{13}\text{C}$ -NMR (75 MHz,  $\text{CDCl}_3$ ) **2b**.



**Figure S9.**  $^1\text{H}$ -NMR (500 MHz,  $\text{CDCl}_3$ ) **2c**.

ppm

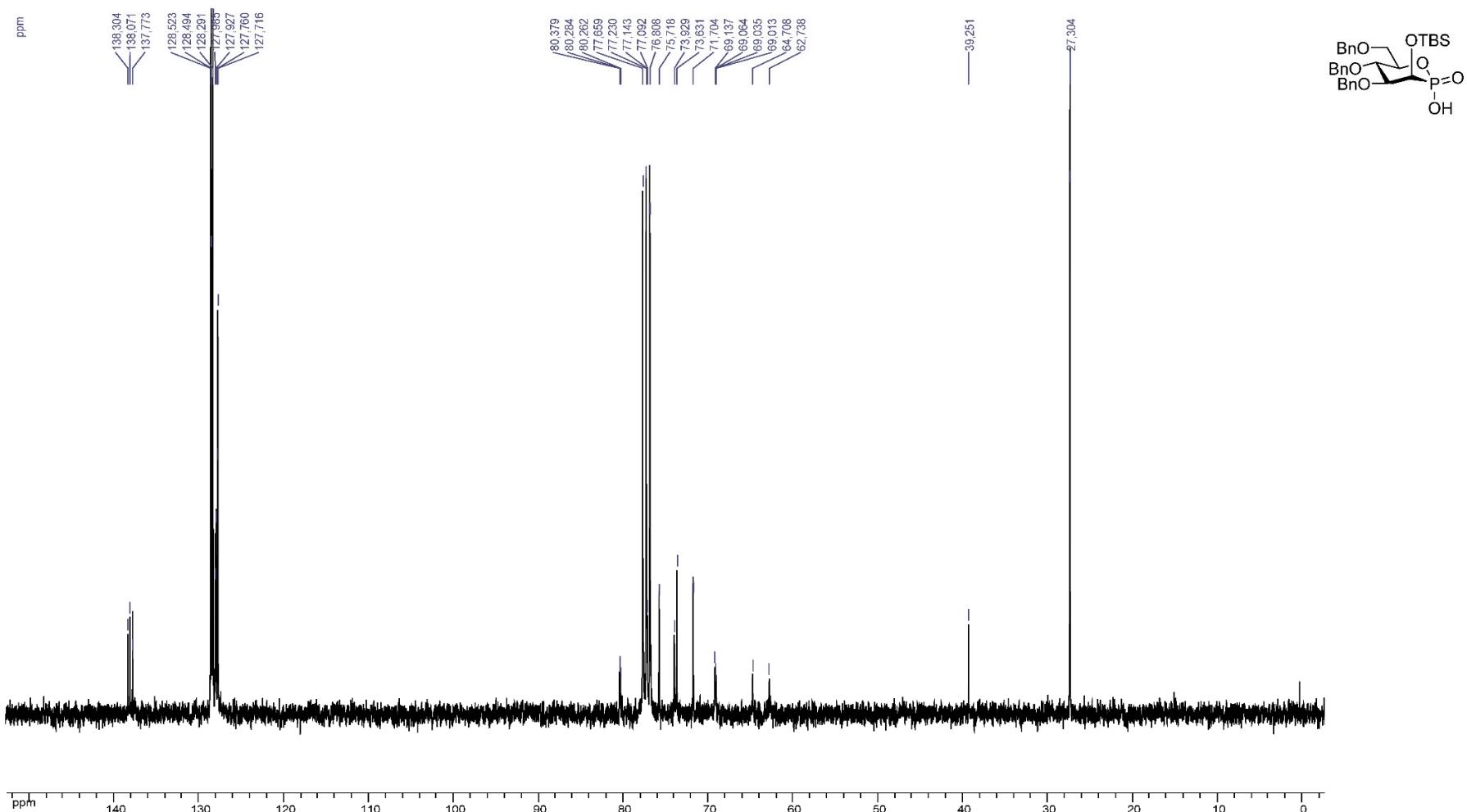
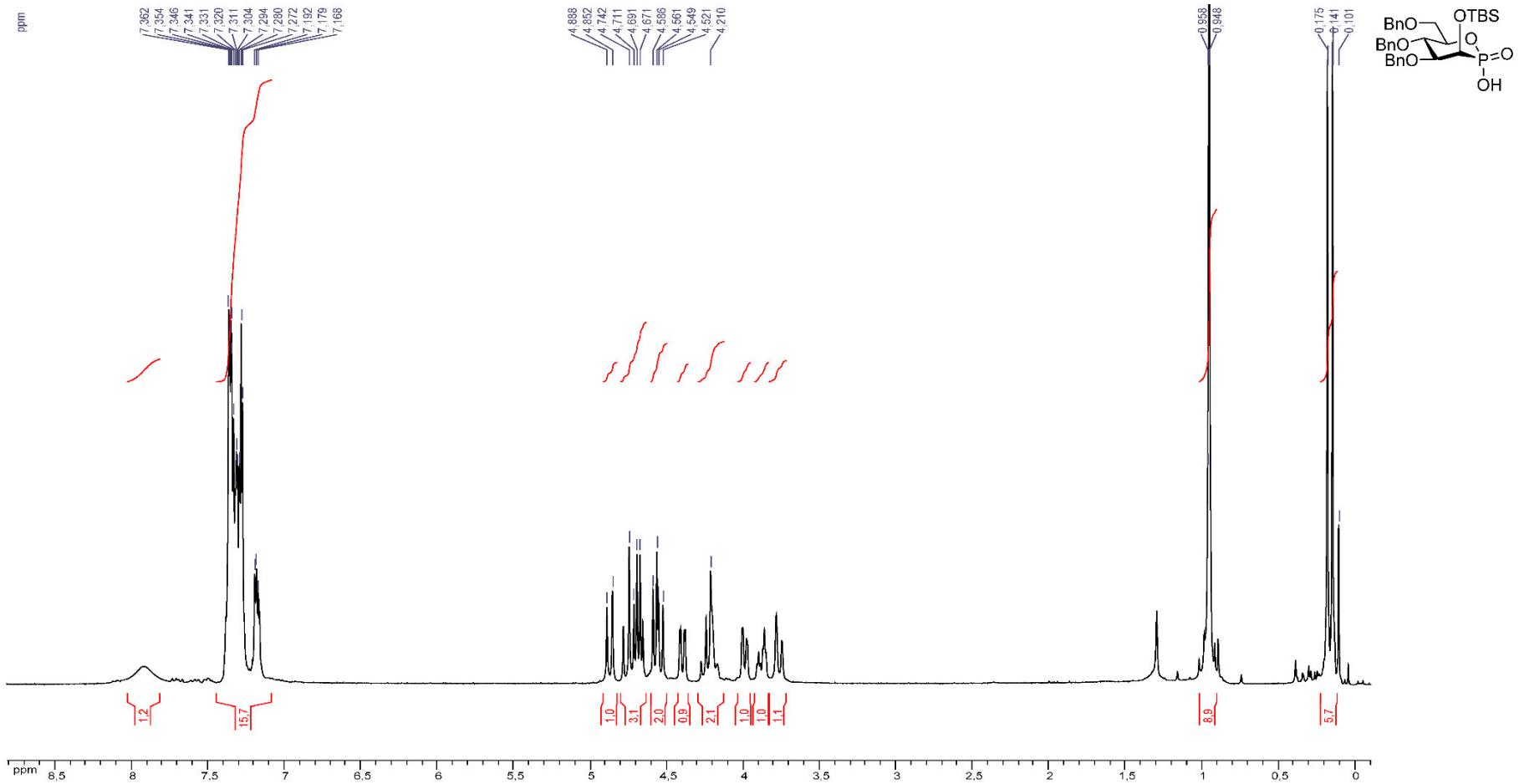
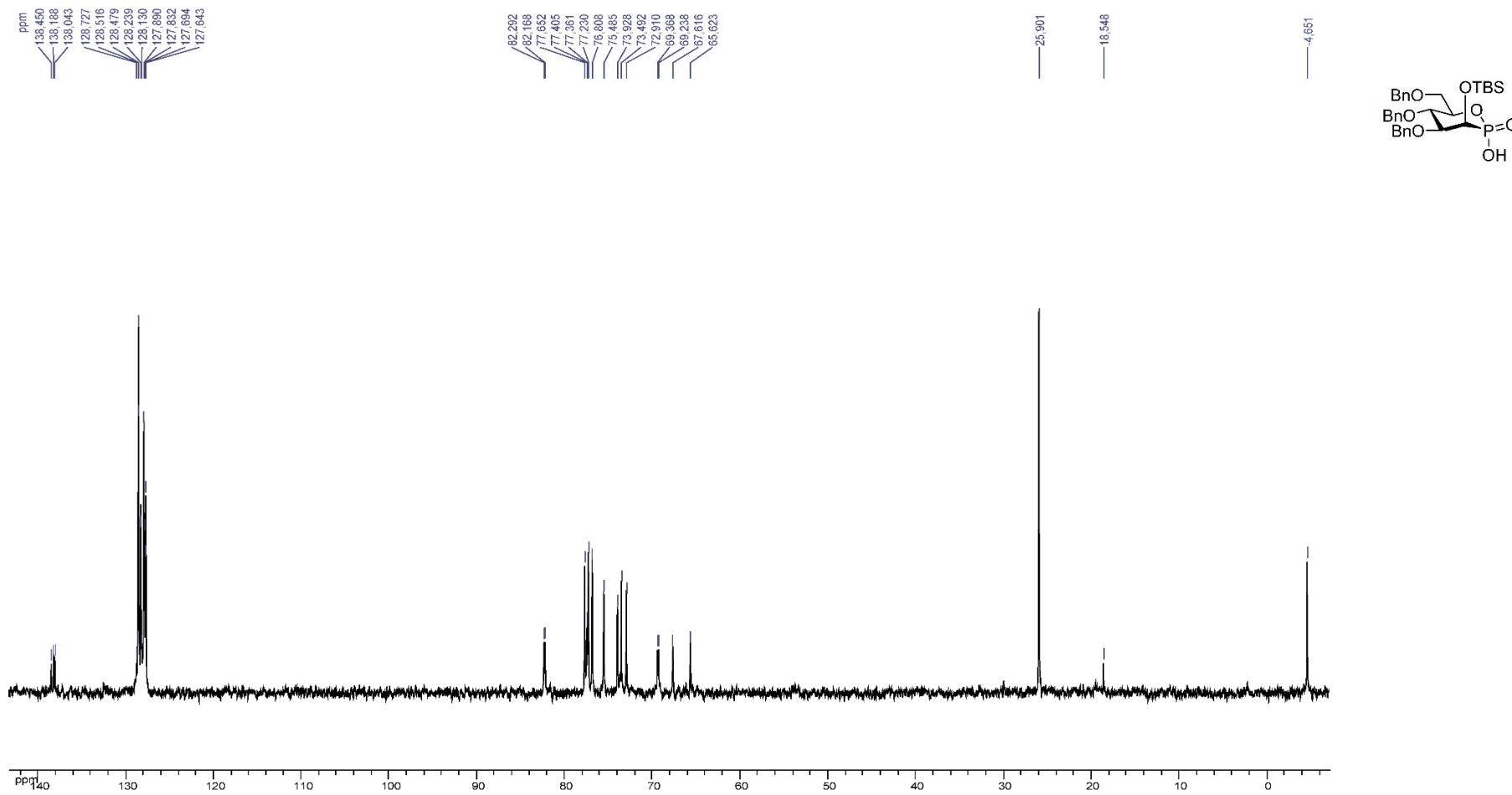


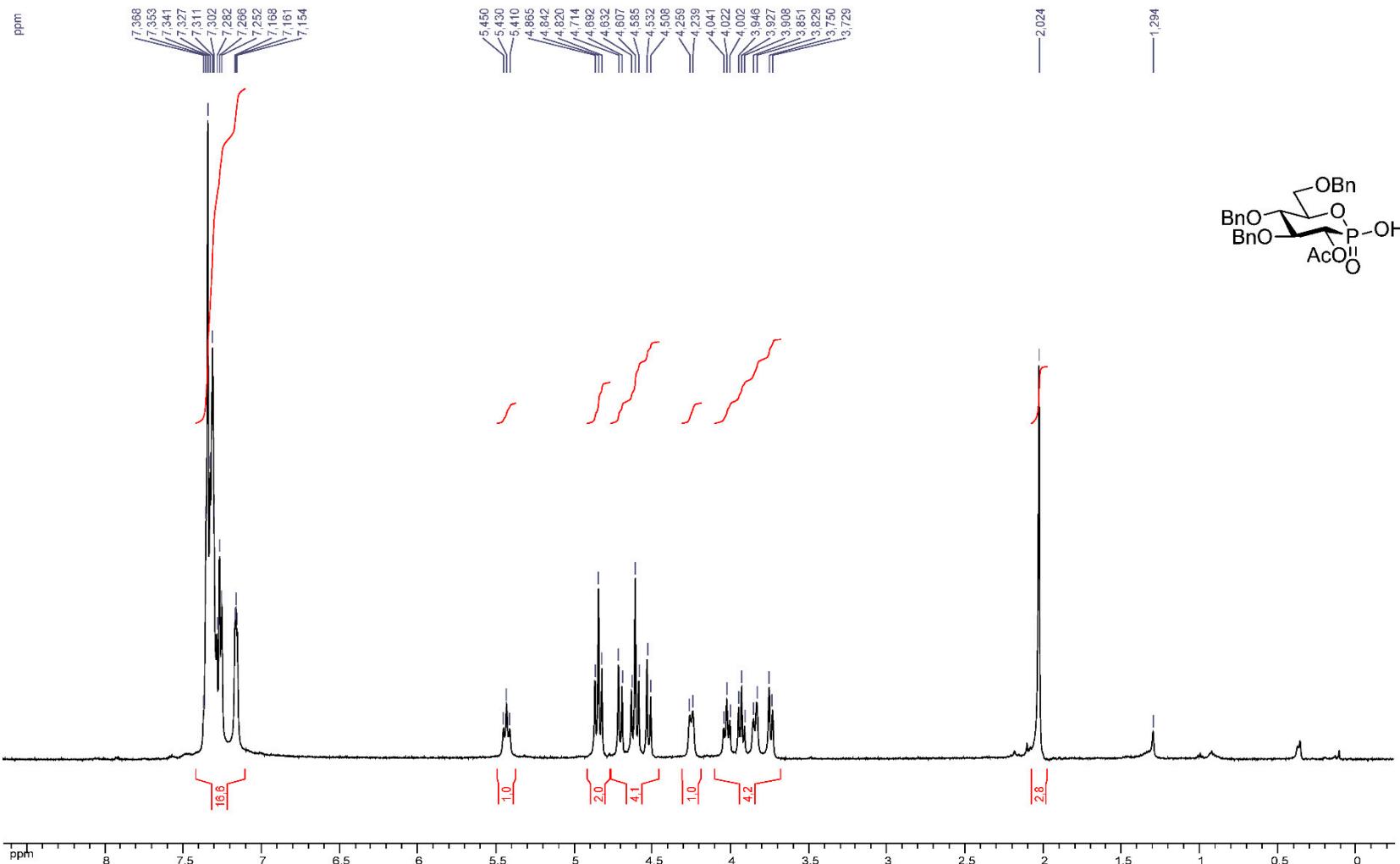
Figure S10.  $^{13}\text{C}$ -NMR (75 MHz,  $\text{CDCl}_3$ ) **2c**.



**Figure S11.**  $^1\text{H}$ -NMR (300 MHz,  $\text{CDCl}_3$ ) **2d**.



**Figure S12.**  $^{13}\text{C}$ -NMR (75 MHz,  $\text{CDCl}_3$ ) **2d**.



**Figure S13.**  $^1\text{H}$ -NMR (500 MHz,  $\text{CDCl}_3$ ) **2e**.

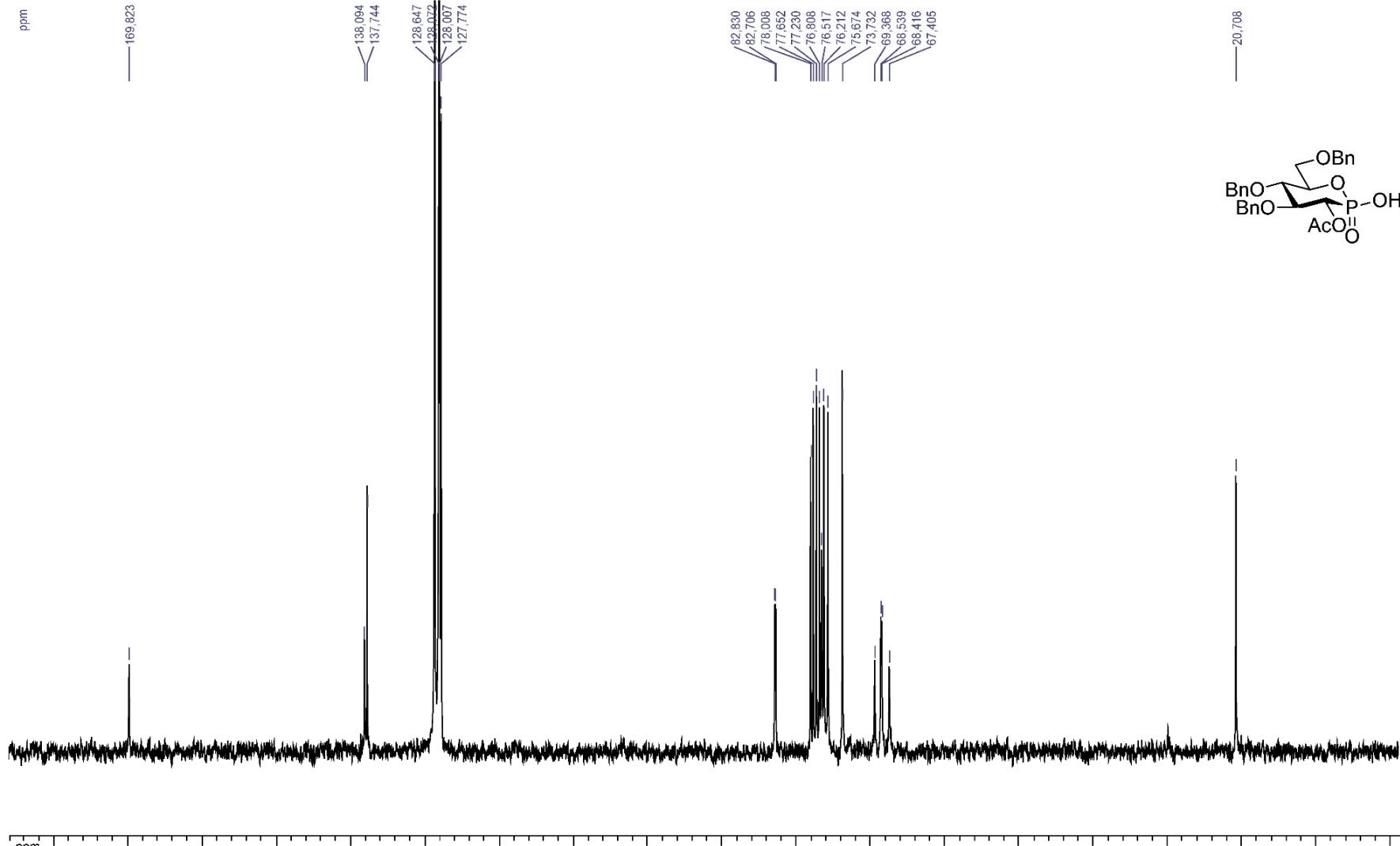
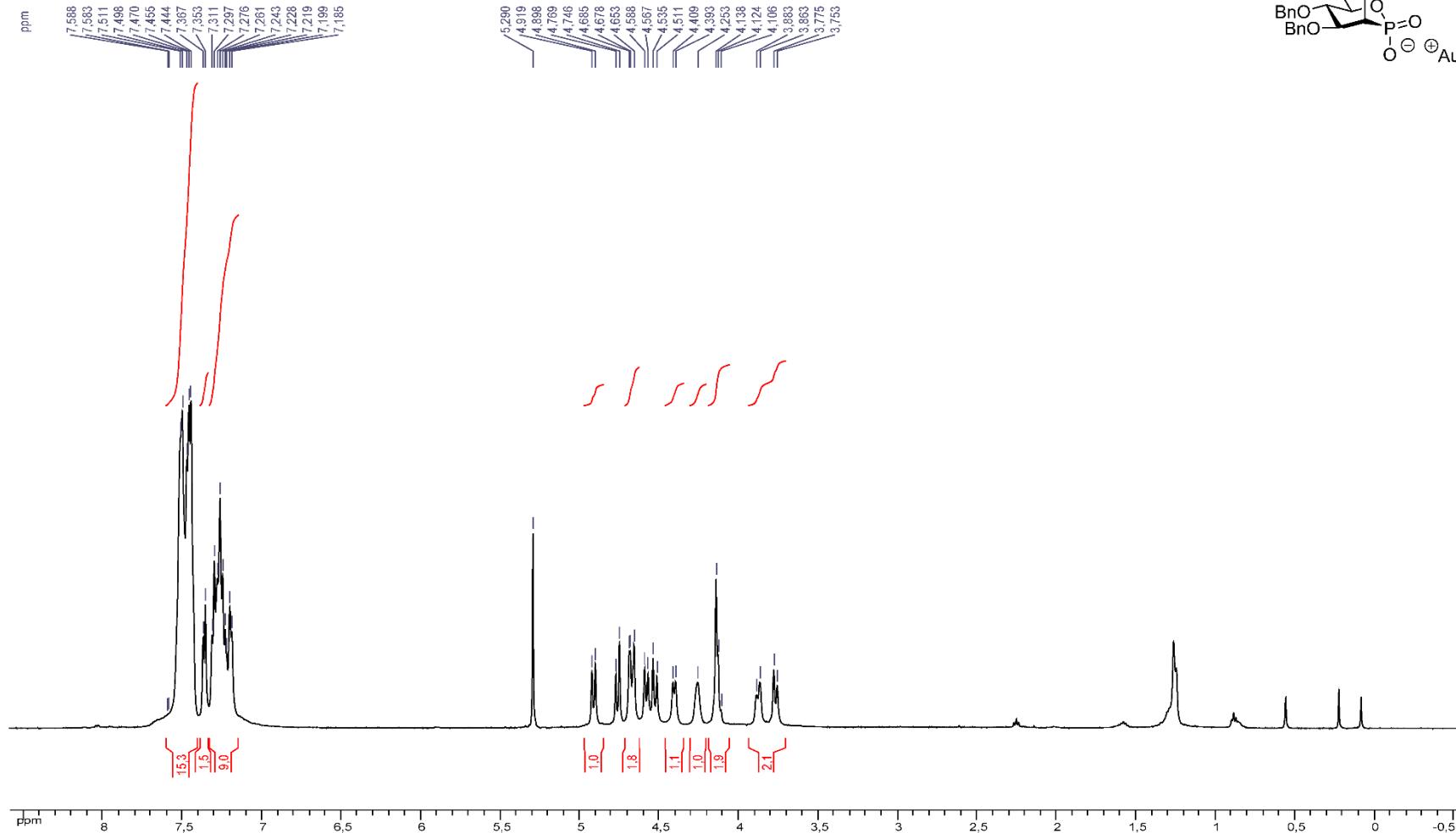
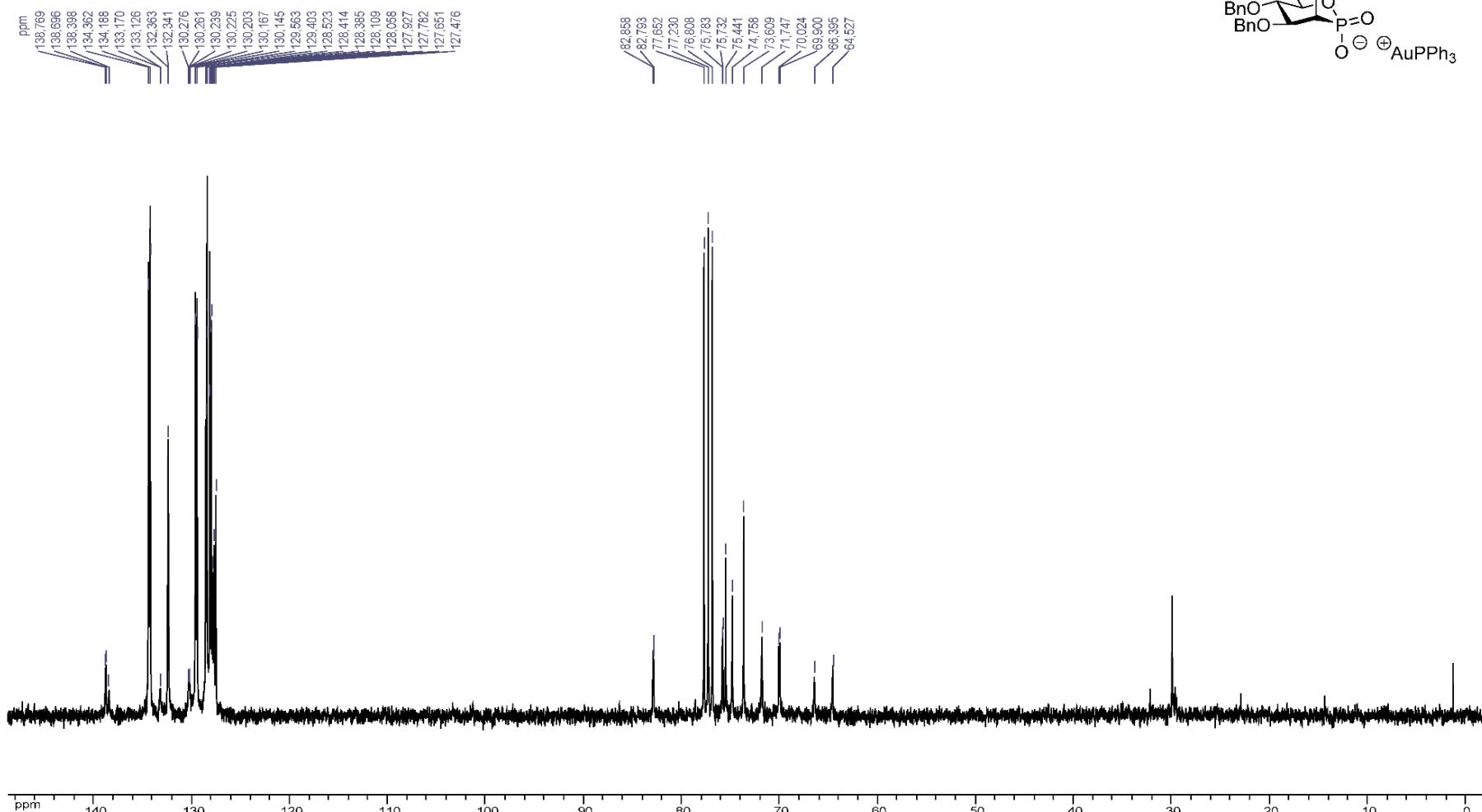


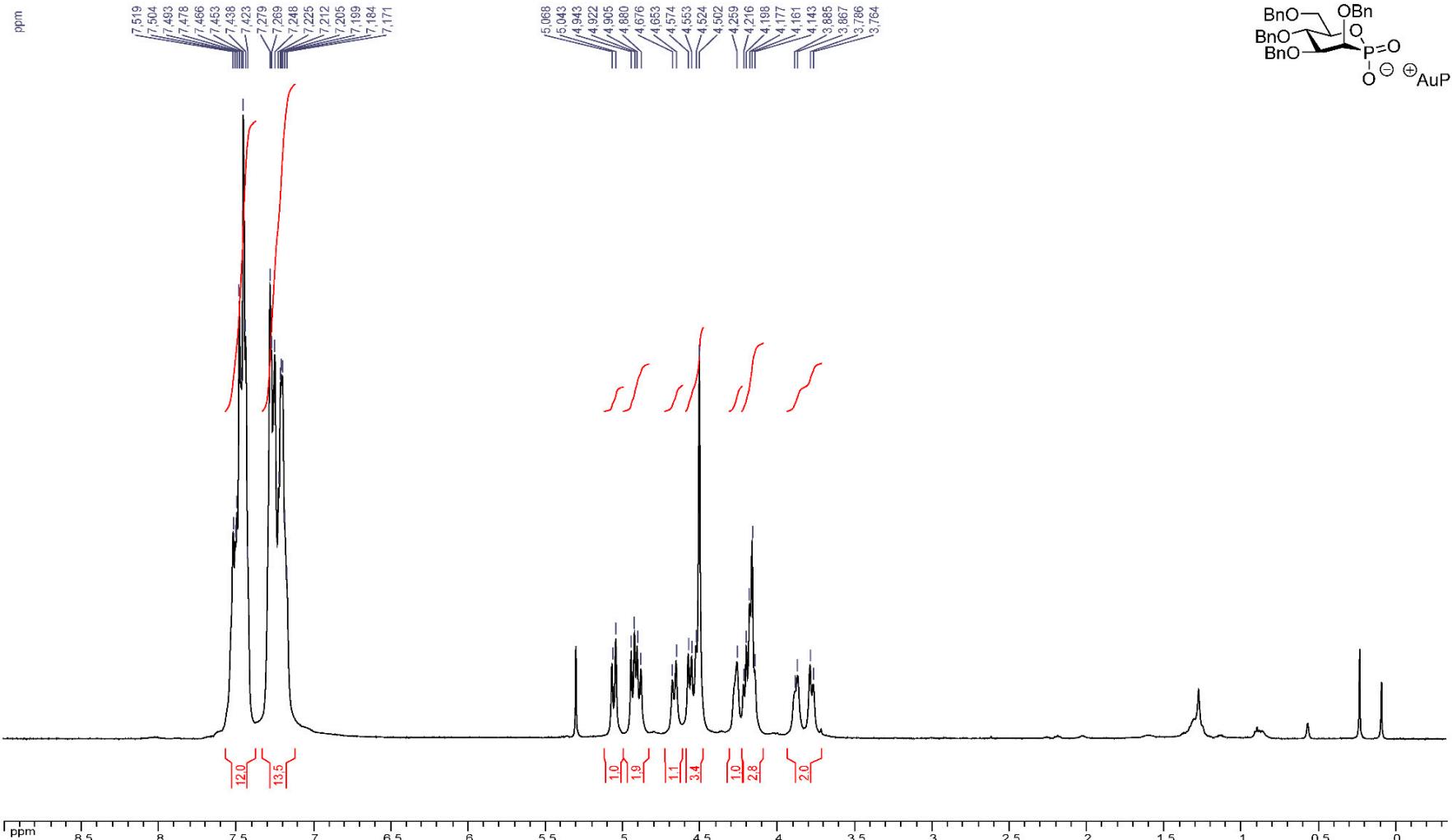
Figure S14.  $^{13}\text{C}$ -NMR (75 MHz, MeOD) **2e**.



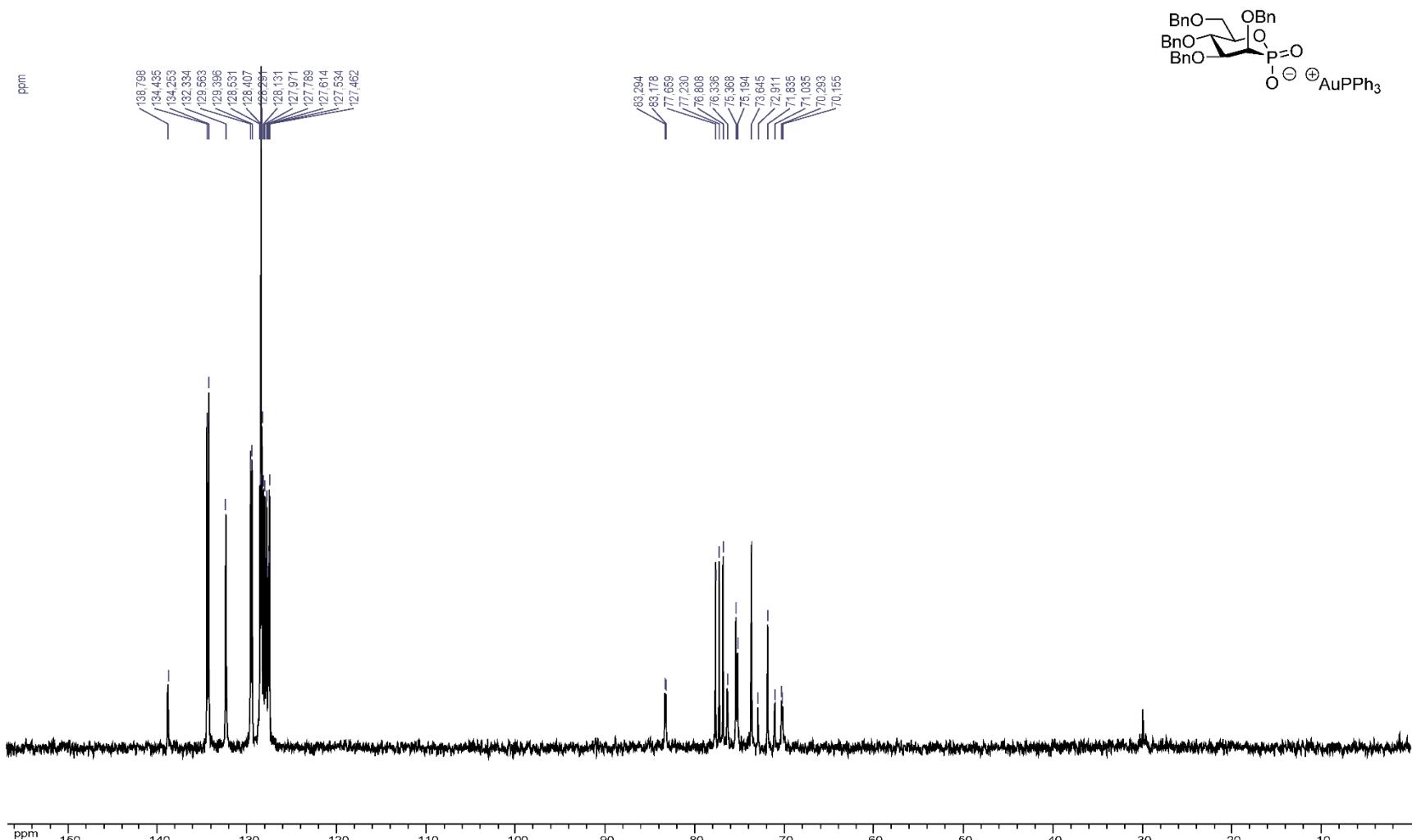
**Figure S15.**  $^1\text{H}$ -NMR (500 MHz,  $\text{CDCl}_3$ ) **9a**.



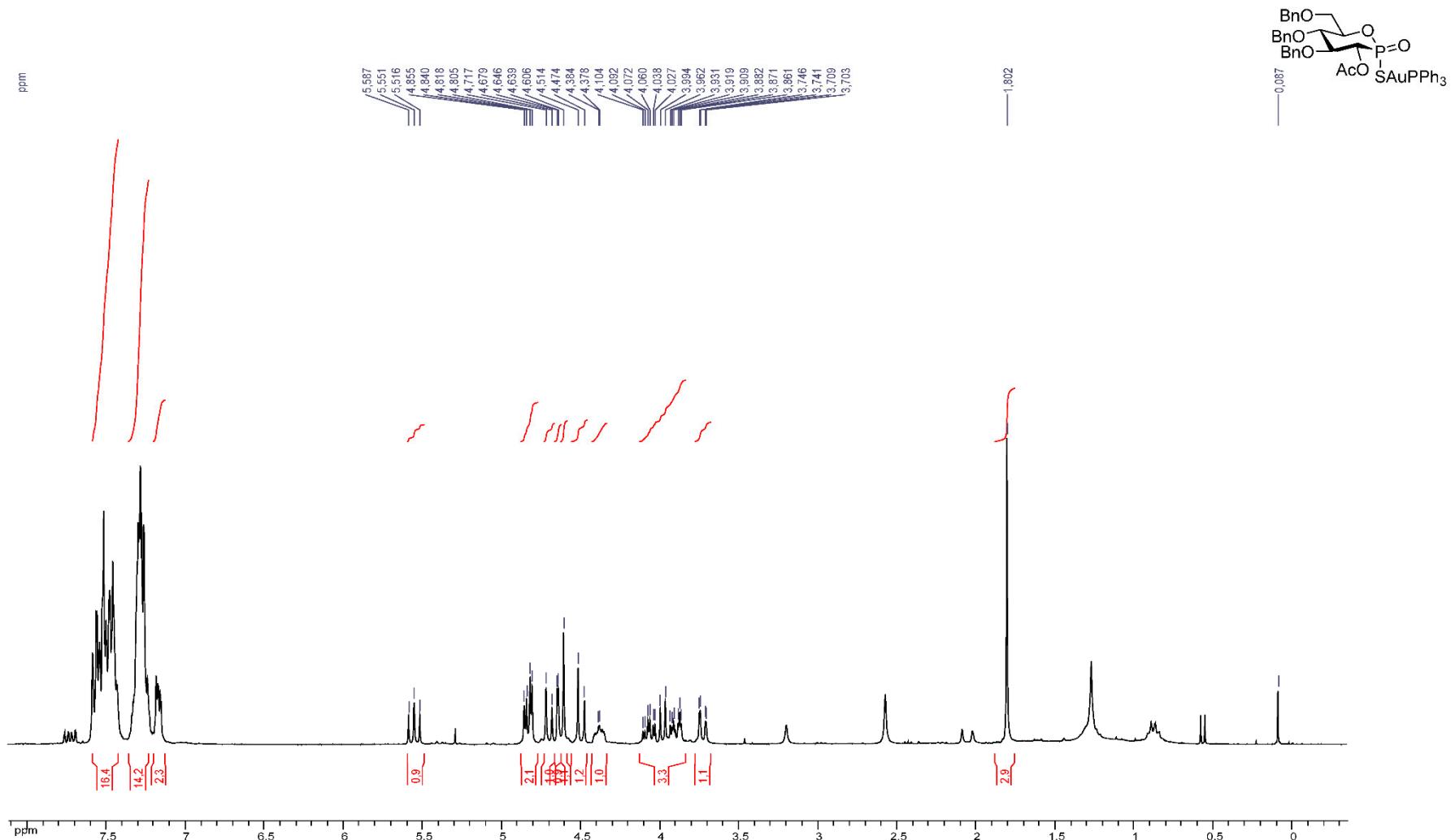
**Figure S16.**  $^{13}\text{C}$ -NMR (75 MHz,  $\text{CDCl}_3$ ) **9a**.



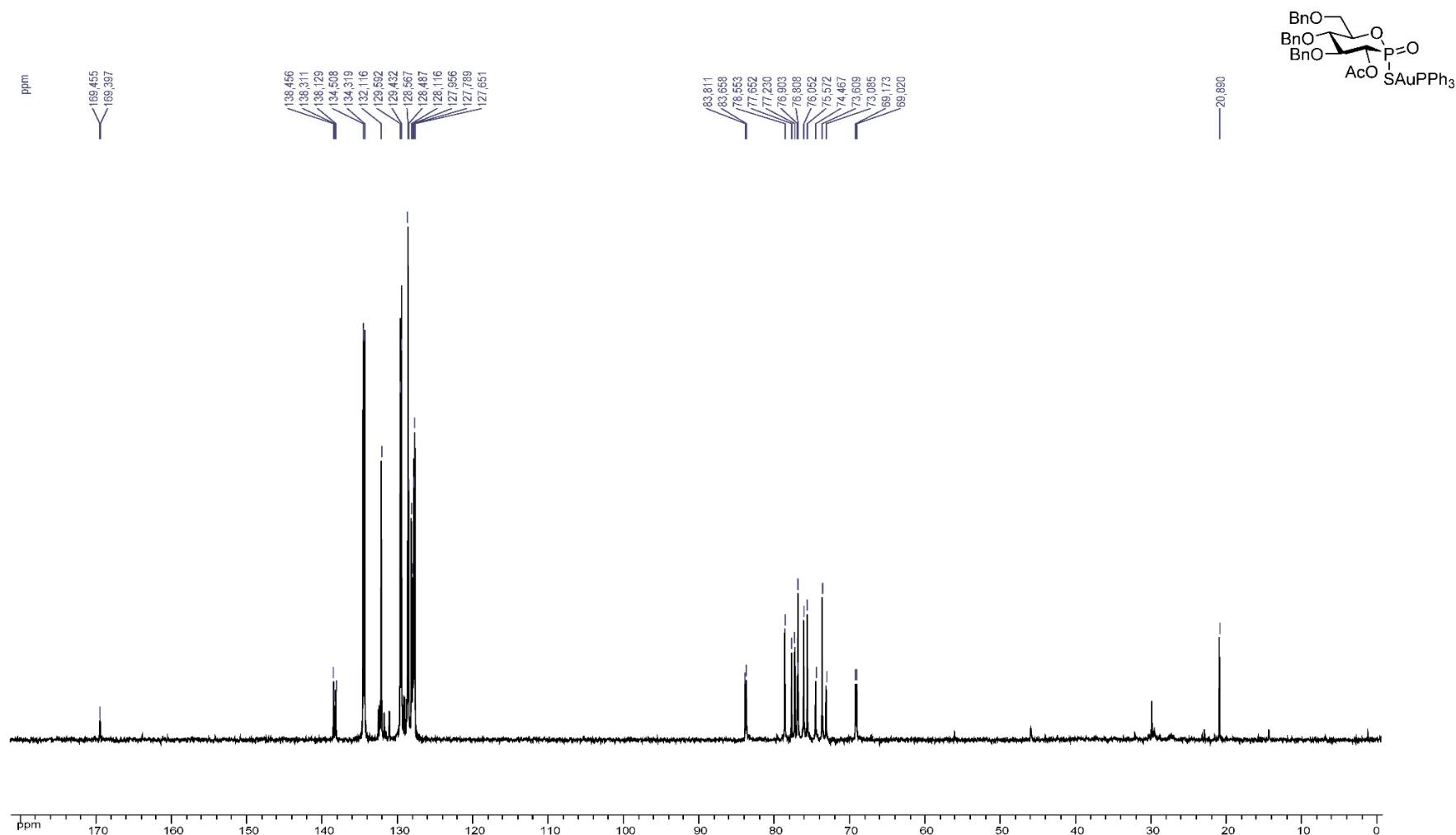
**Figure S17.**  $^1\text{H}$ -NMR (500 MHz,  $\text{CDCl}_3$ ) **9b**.



**Figure S18.**  $^{13}\text{C}$ -NMR (75 MHz,  $\text{CDCl}_3$ ) **9b**.



**Figure S19.**  $^1\text{H}$ -NMR (300 MHz,  $\text{CDCl}_3$ ) **10a.**



**Figure S20.**  $^{13}\text{C}$ -NMR (75 MHz,  $\text{CDCl}_3$ ) **10a.**