



# Supplementary material: Synthesis and kinetic evaluation of analogs of (*E*)-4-amino-3-methylbut-2-en-1-yl diphosphate, a potent inhibitor of the IspH metalloenzyme

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Strasbourg, UMR 7177, Université de Strasbourg/CNRS, 4, rue Blaise Pascal, 67070  
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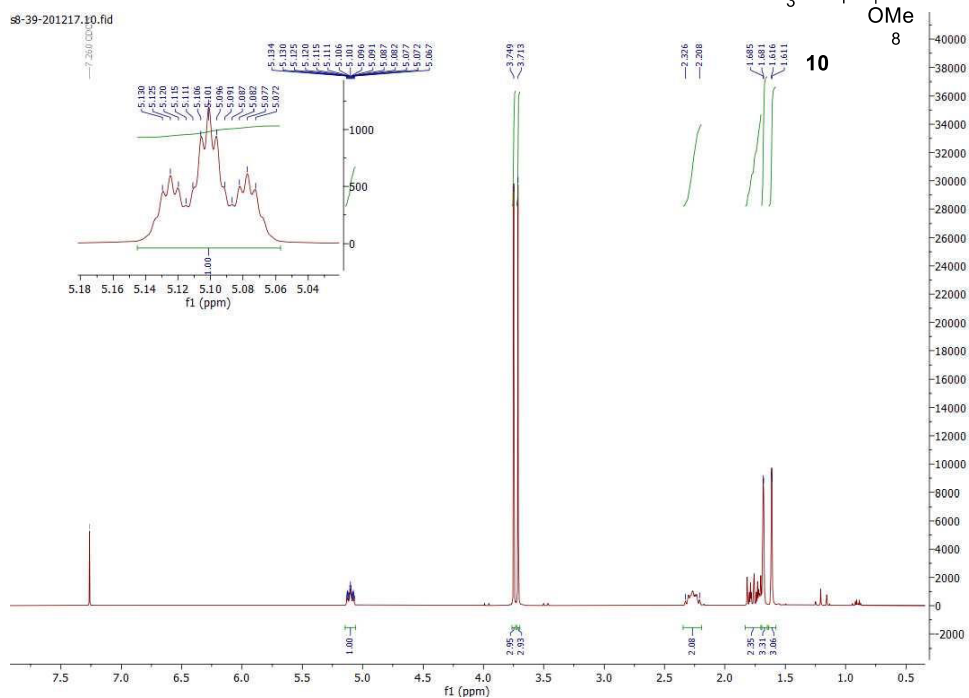
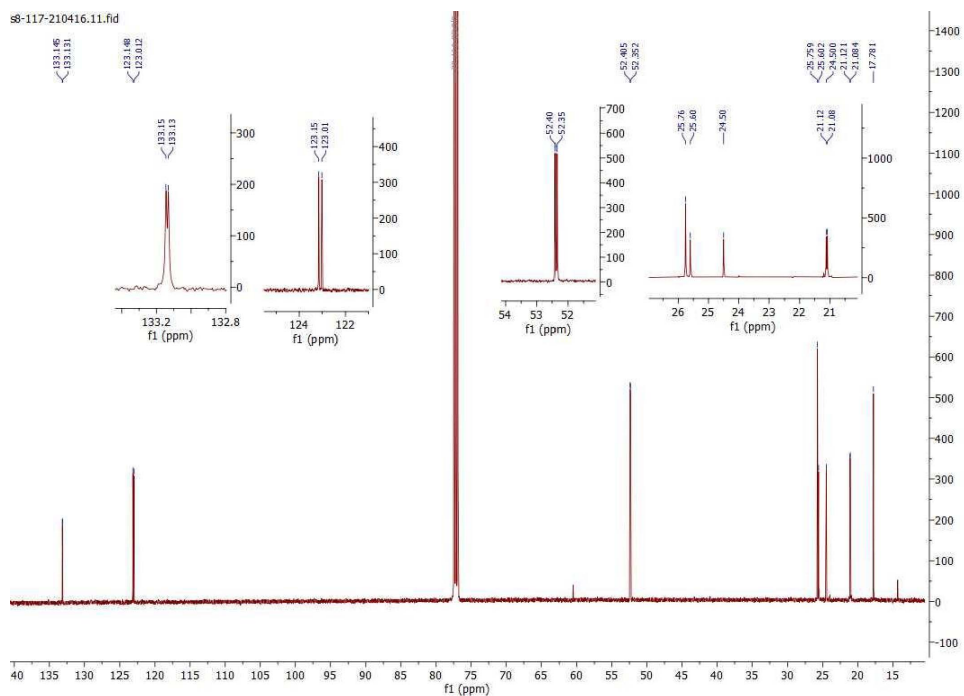
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*Not yet published*

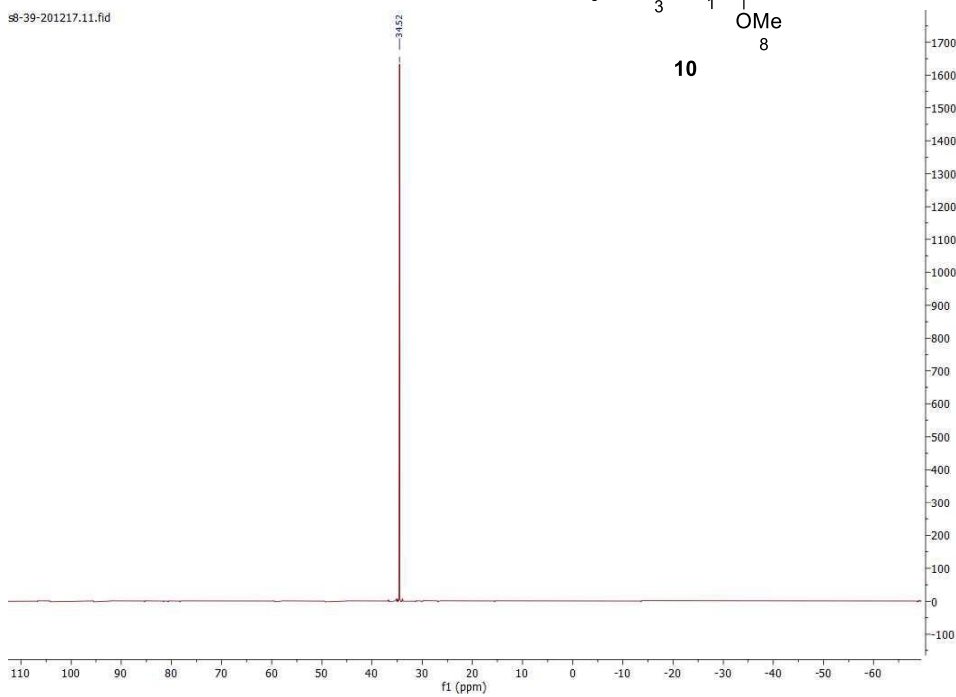
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\* Corresponding authors.

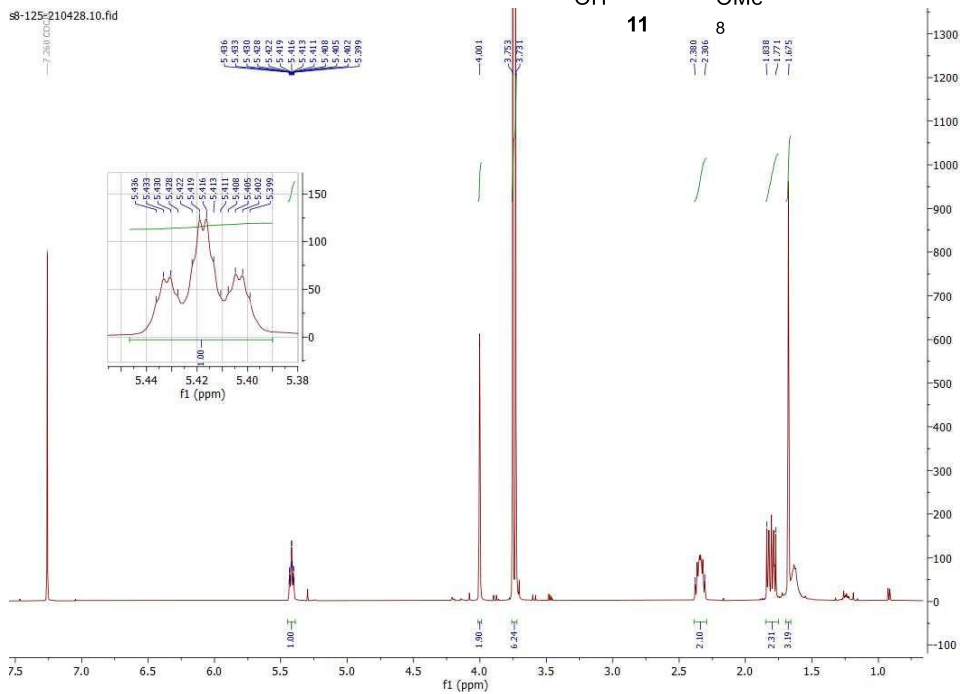
**<sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>)****<sup>13</sup>C NMR (125.8 MHz, CDCl<sub>3</sub>)**

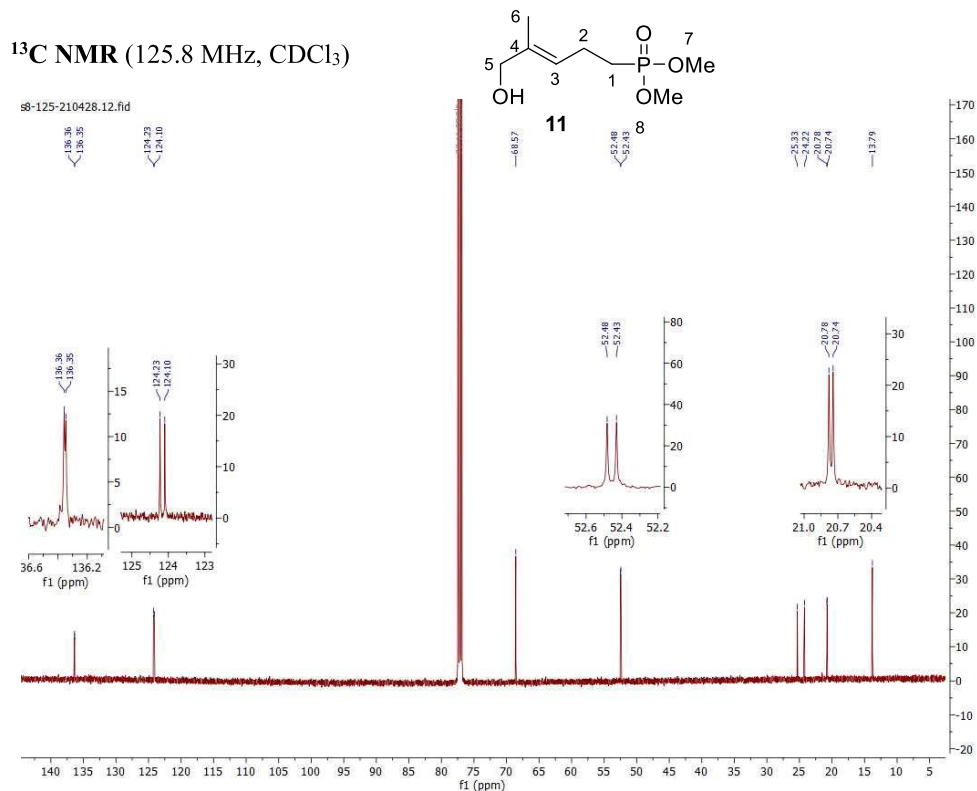
**$^{31}\text{P}$  NMR (202.5 MHz,  $\text{CDCl}_3$ )**

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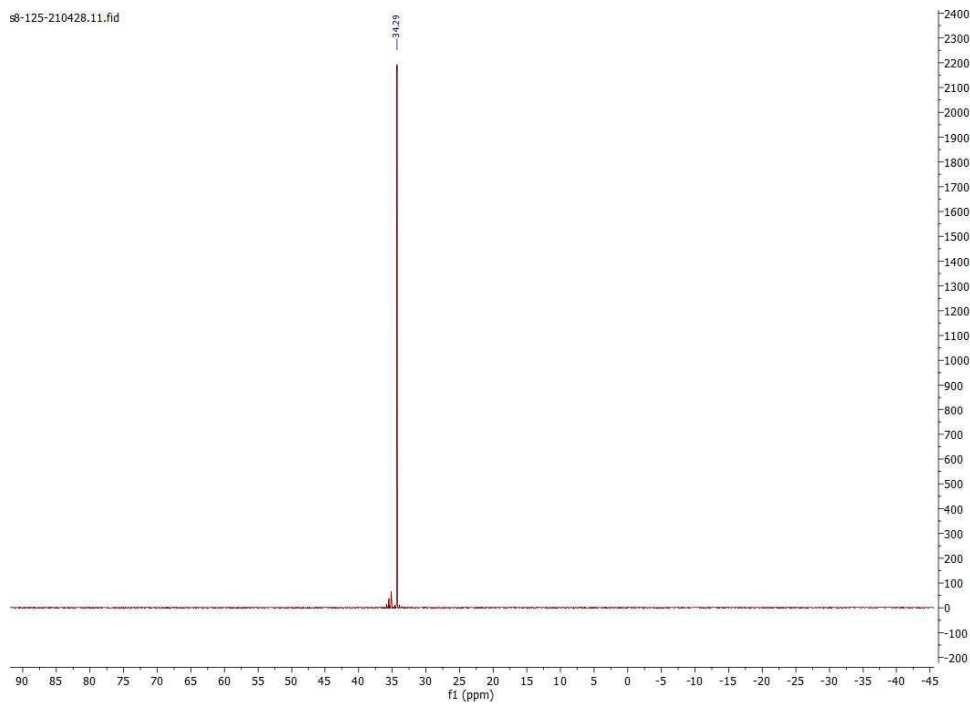
 **$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ )**

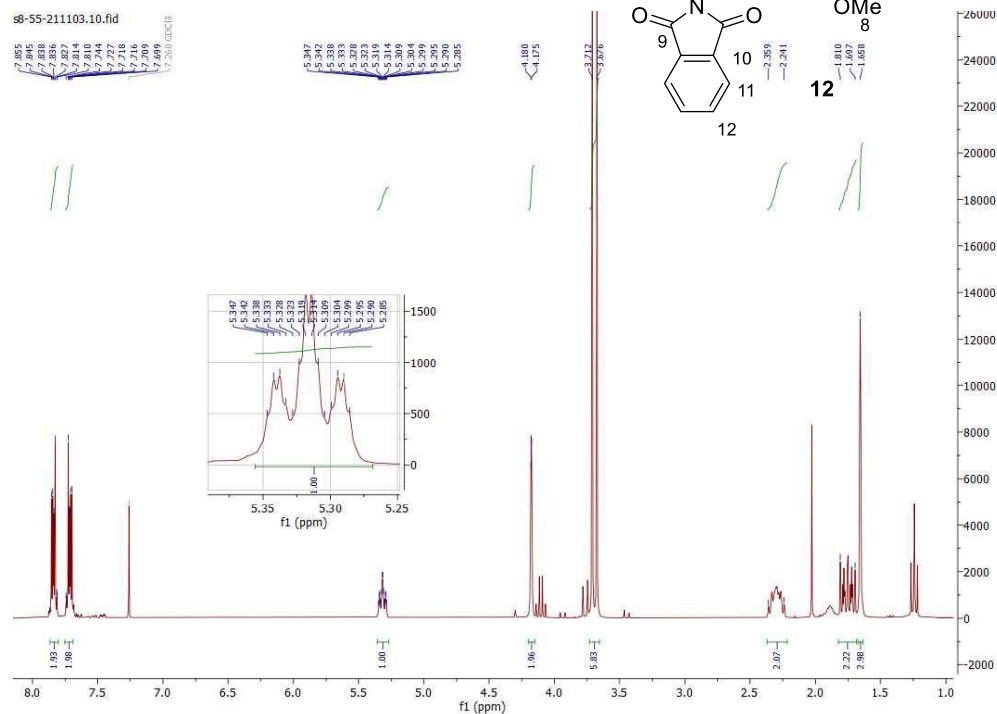
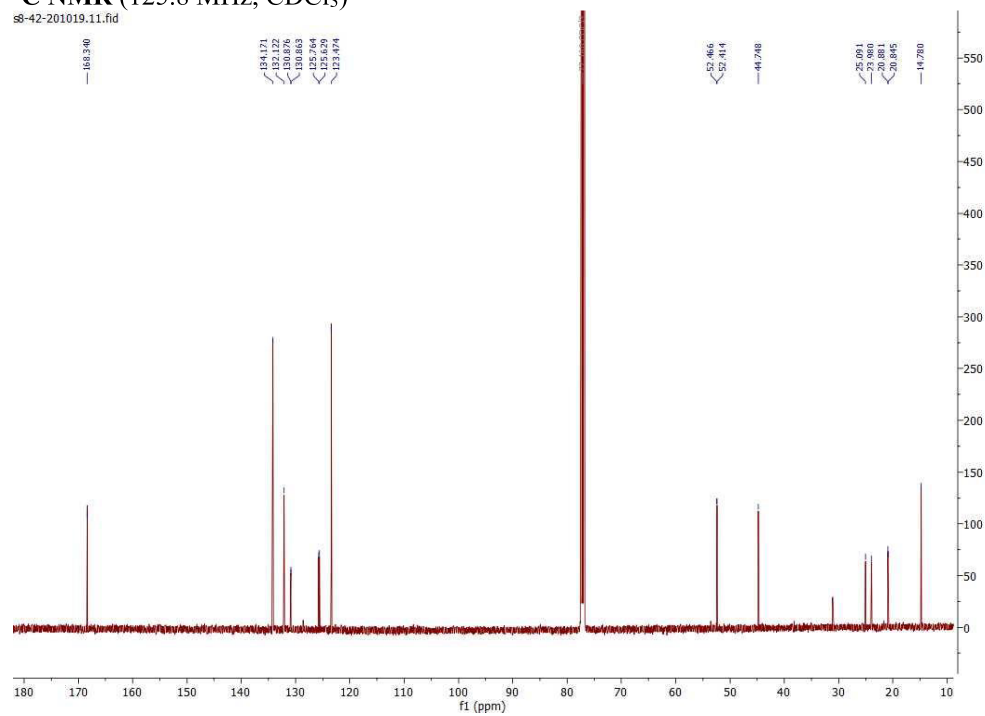
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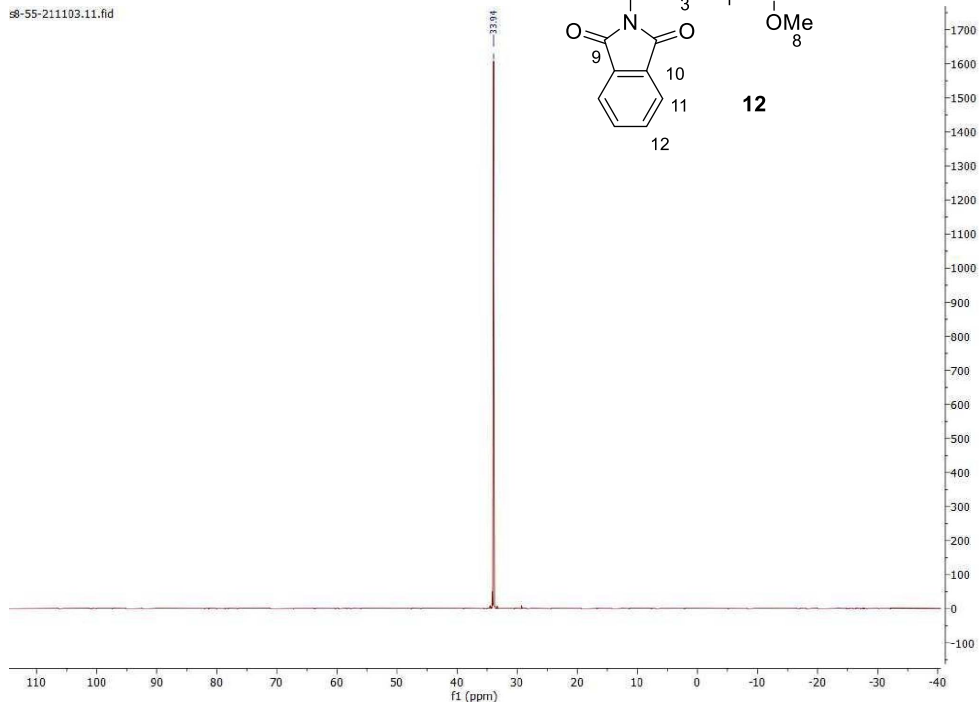
**$^{31}\text{P}$  NMR (121.5 MHz,  $\text{CDCl}_3$ )**



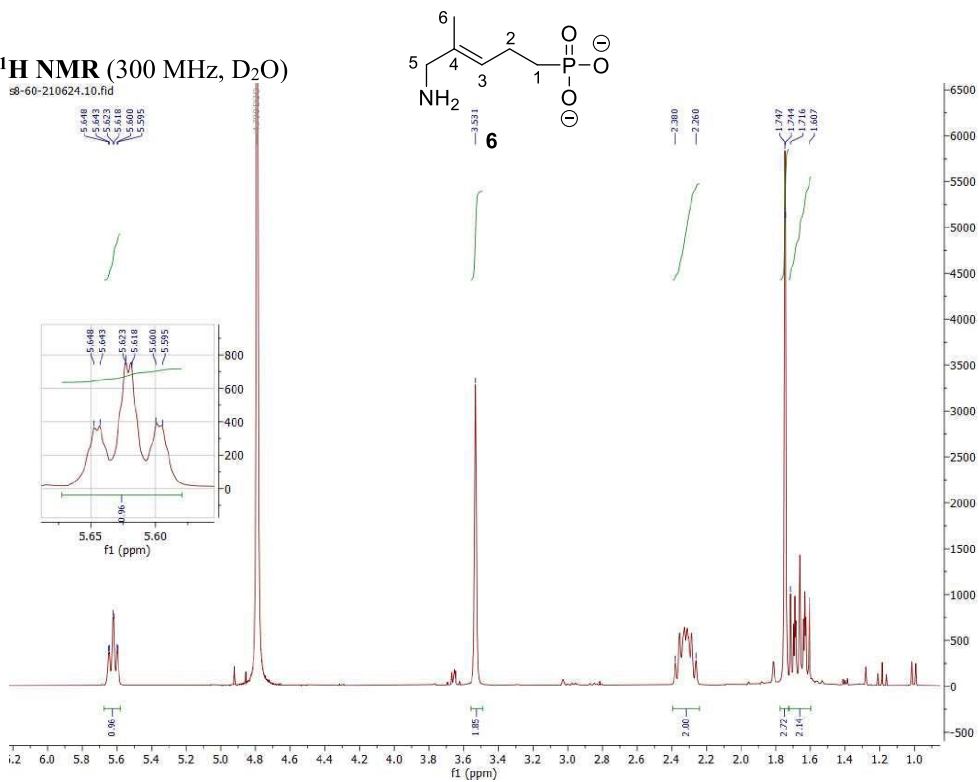
**<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>)****<sup>13</sup>C NMR (125.8 MHz, CDCl<sub>3</sub>)**

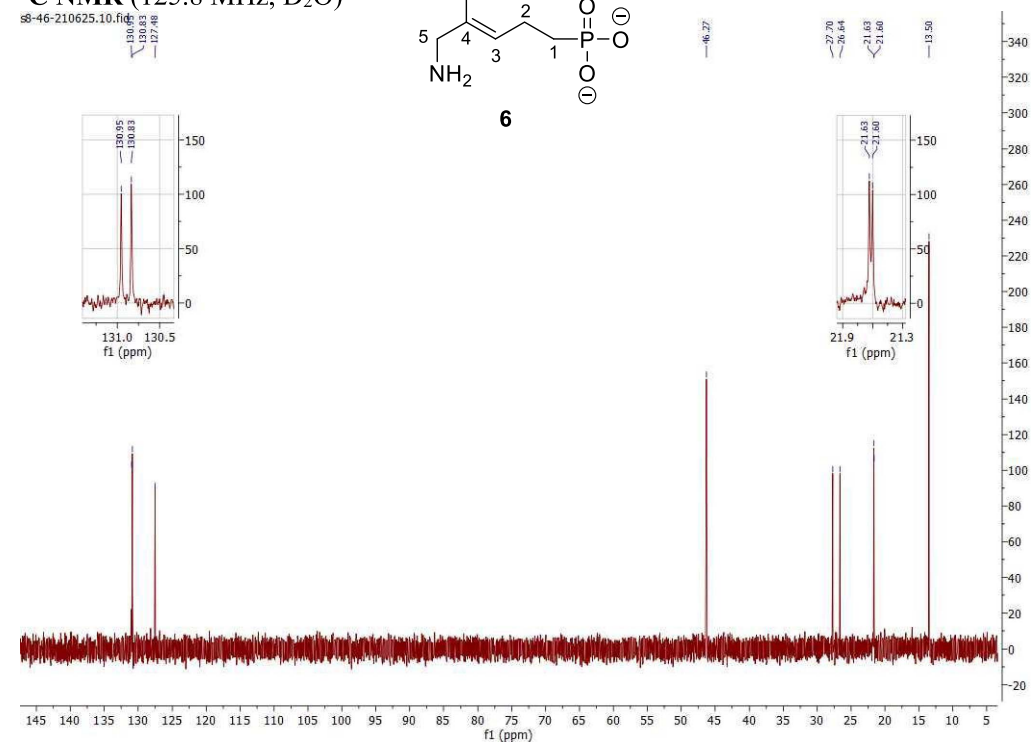
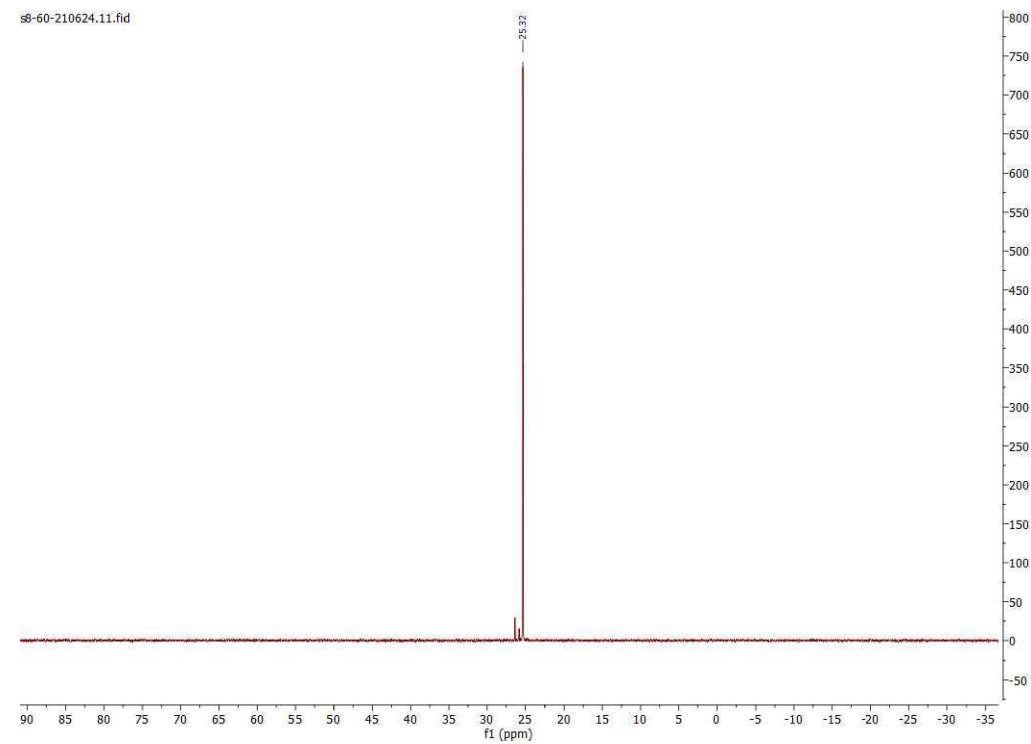
**$^{31}\text{P}$  NMR (121.5 MHz,  $\text{CDCl}_3$ )**

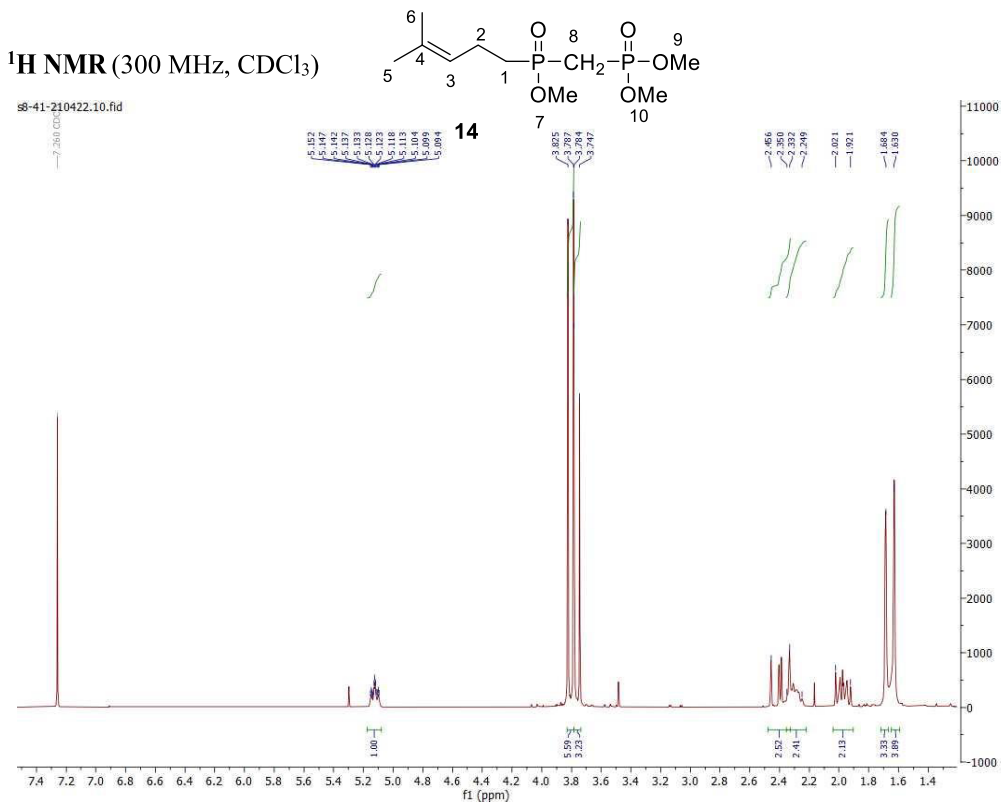
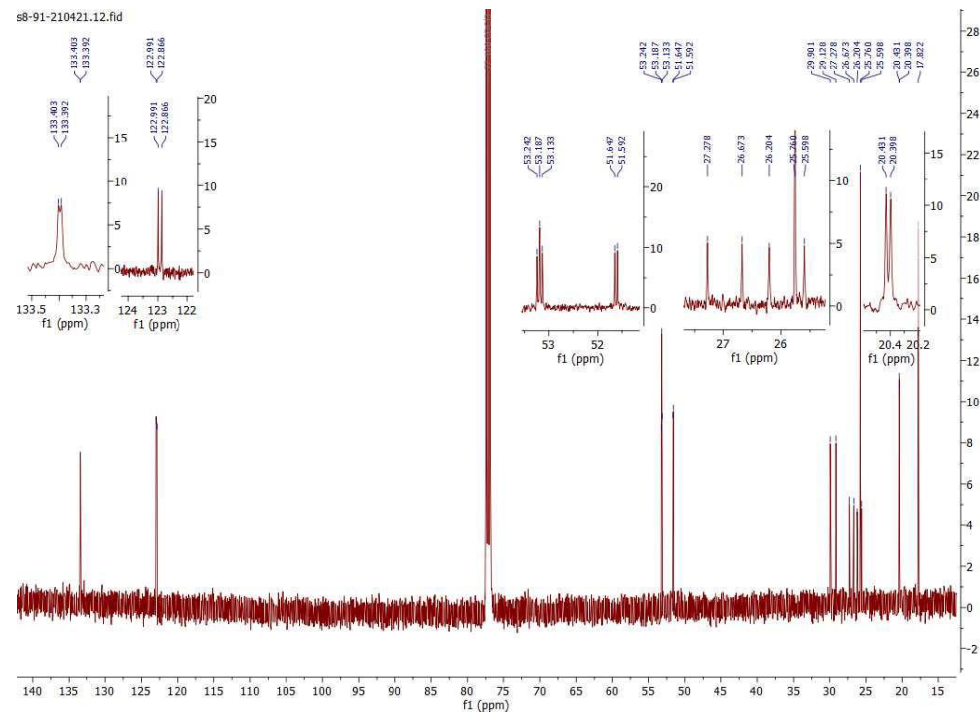
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 **$^1\text{H}$  NMR (300 MHz,  $\text{D}_2\text{O}$ )**

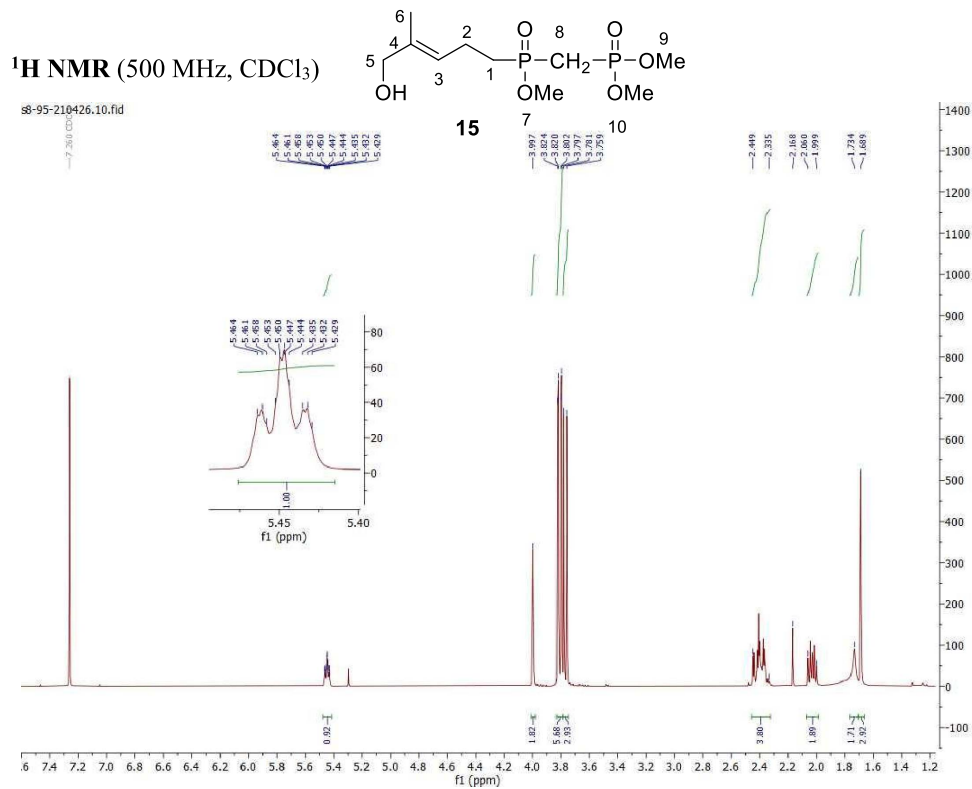
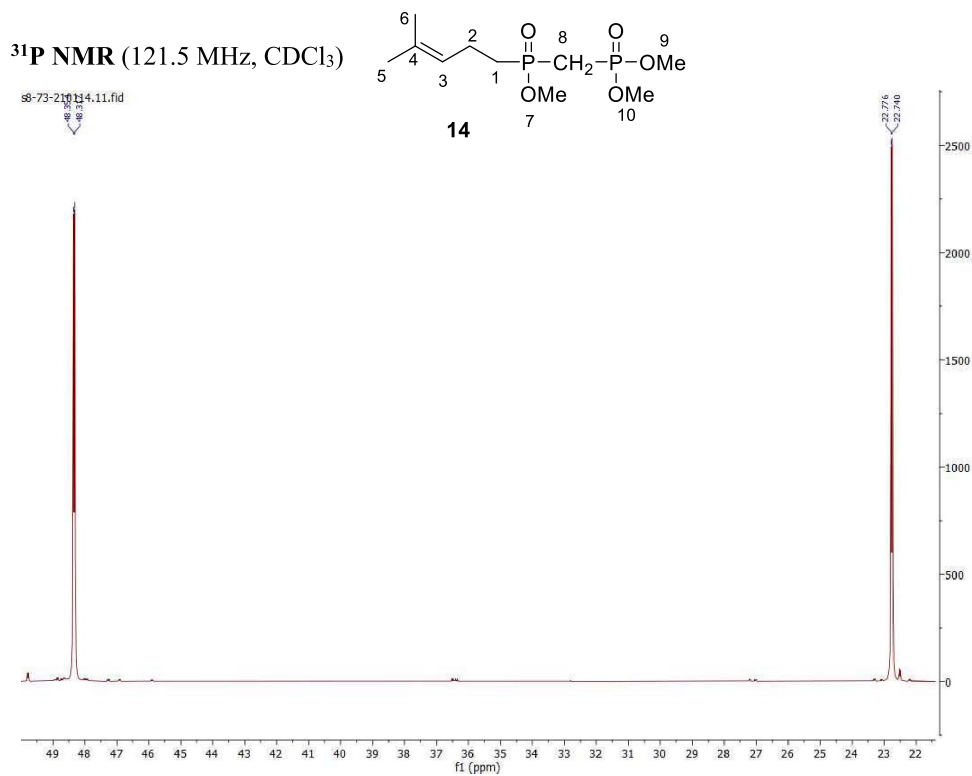
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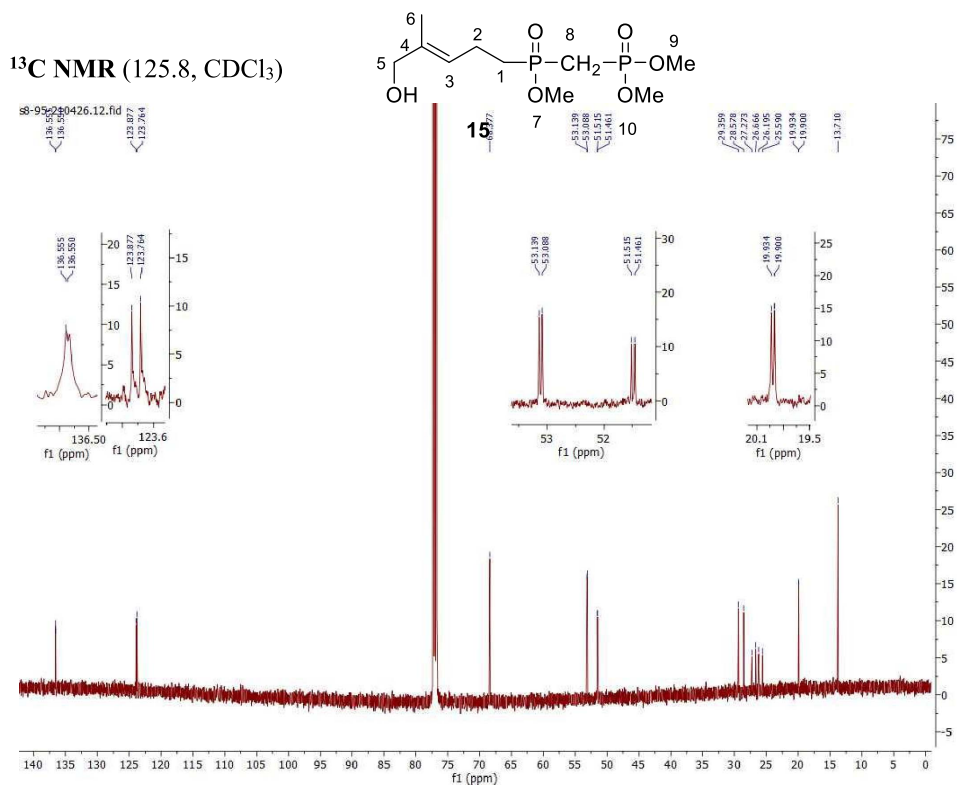


**$^{13}\text{C}$  NMR (125.8 MHz,  $\text{D}_2\text{O}$ )** **$^{31}\text{P}$  NMR (121.5 MHz,  $\text{D}_2\text{O}$ )**

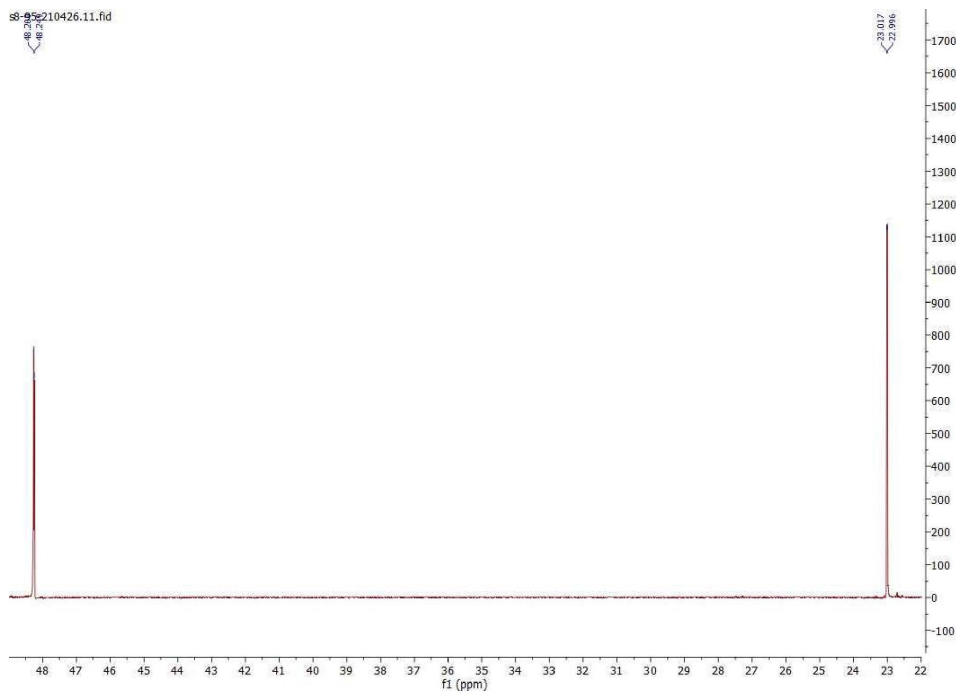
 **$^{13}\text{C}$  NMR (125.8,  $\text{CDCl}_3$ )**

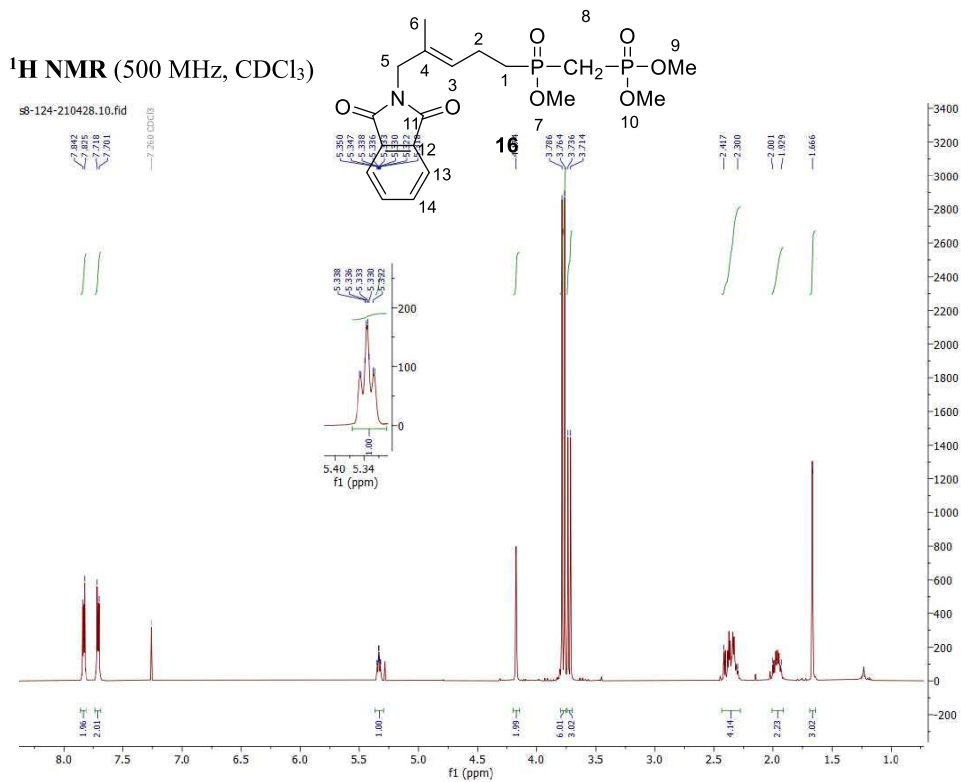
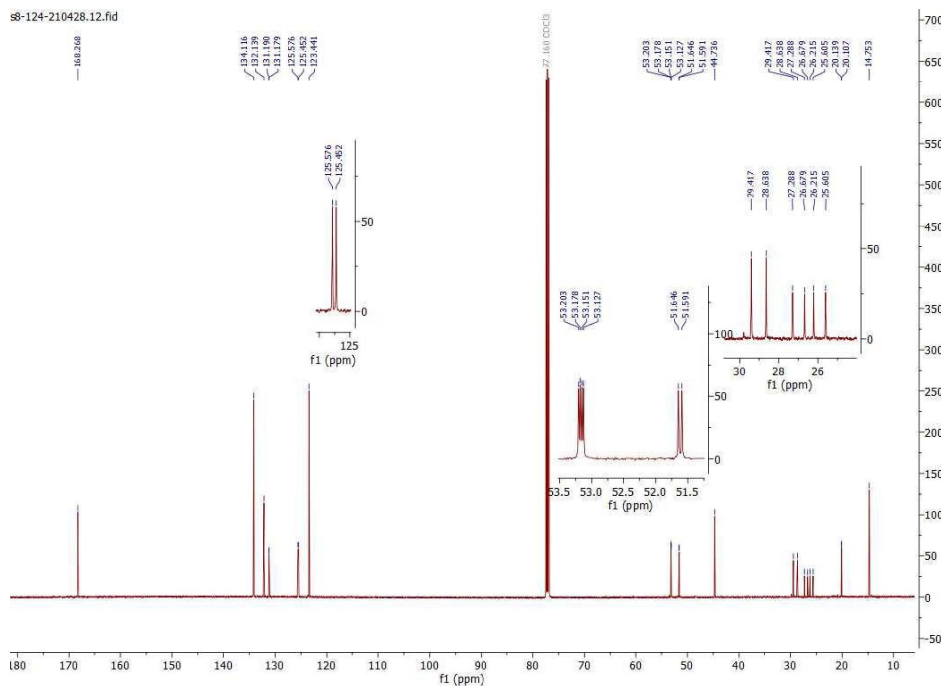


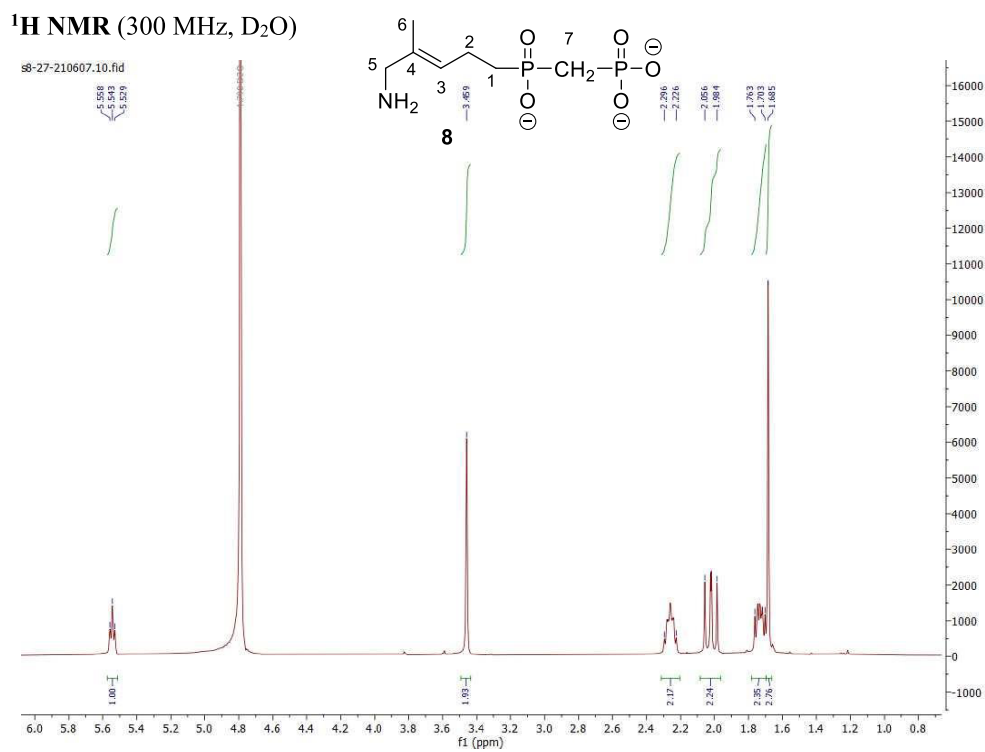
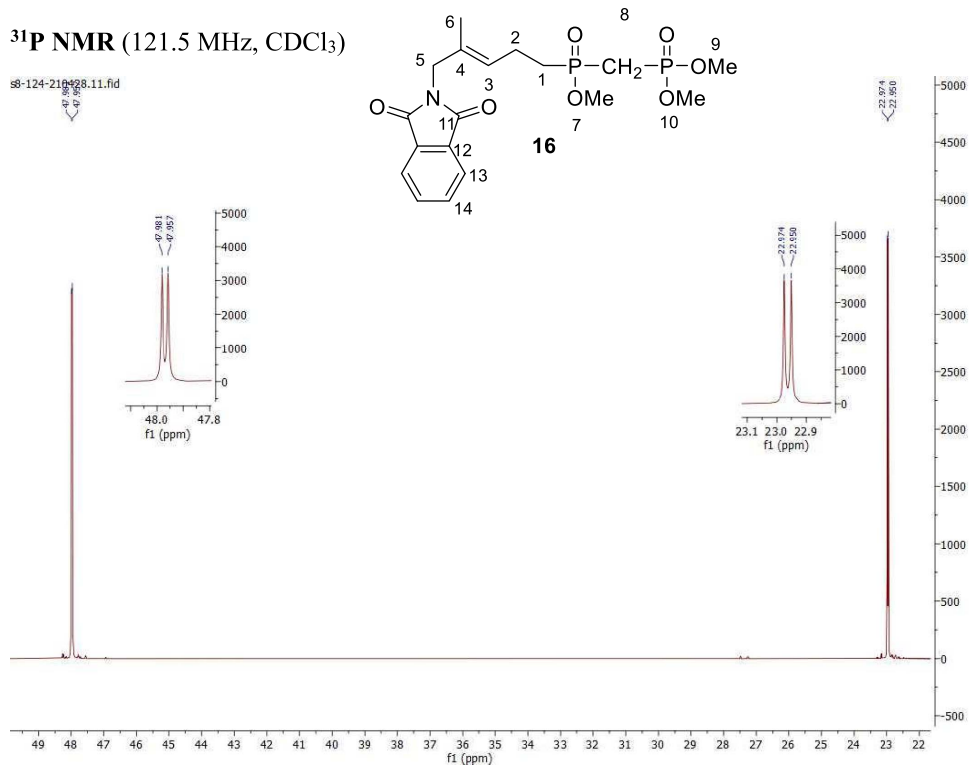


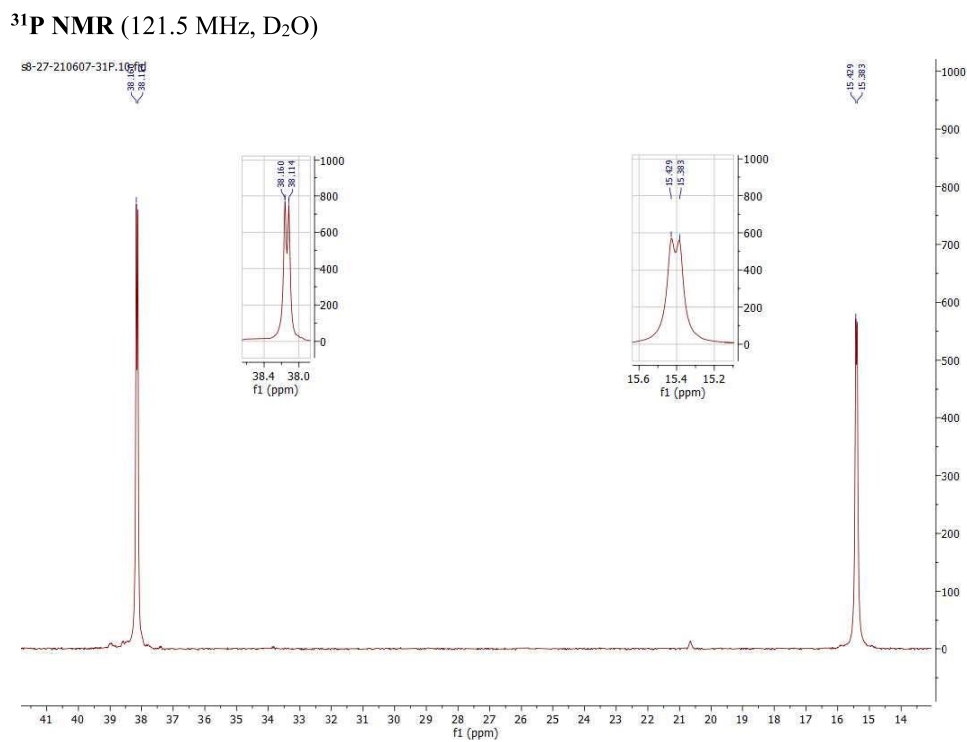
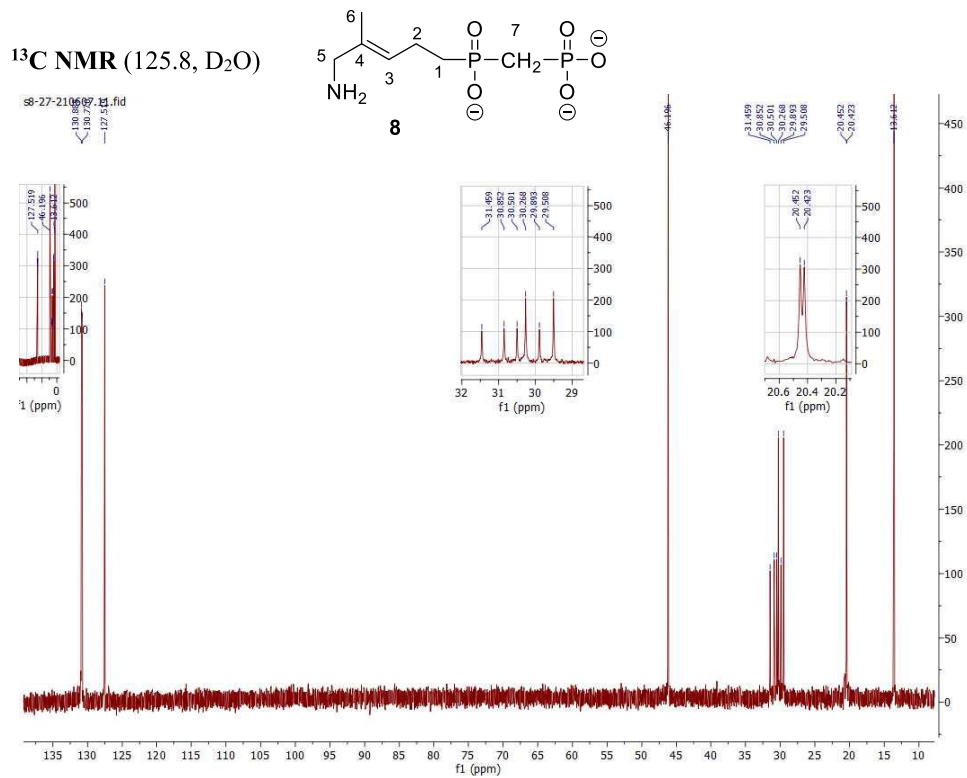


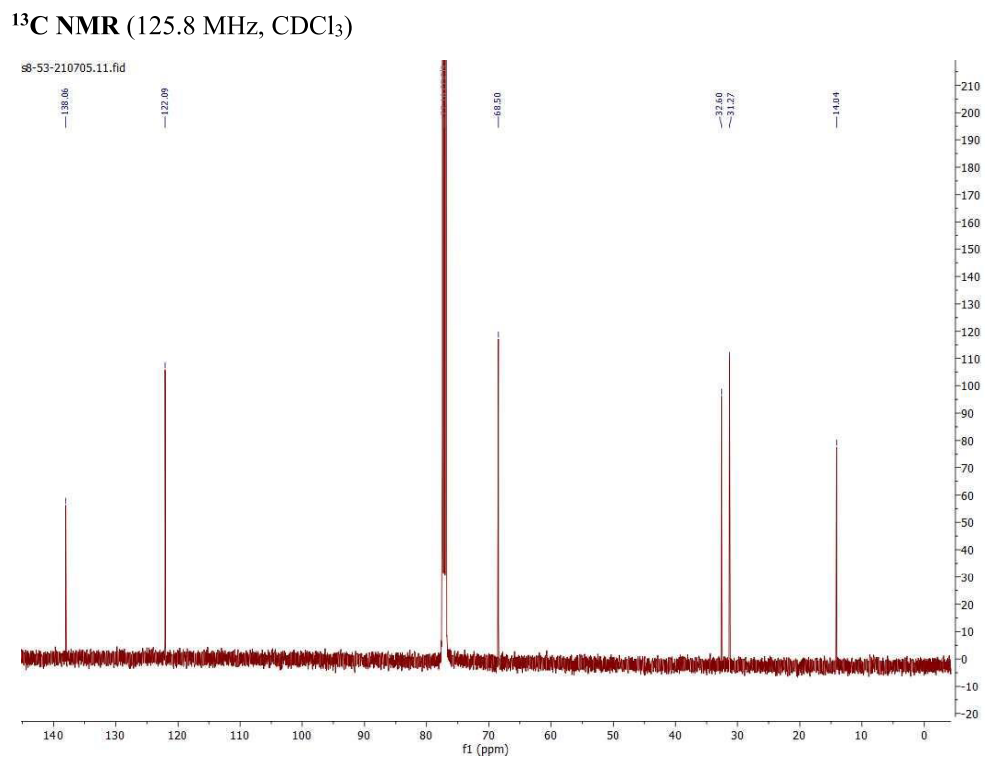
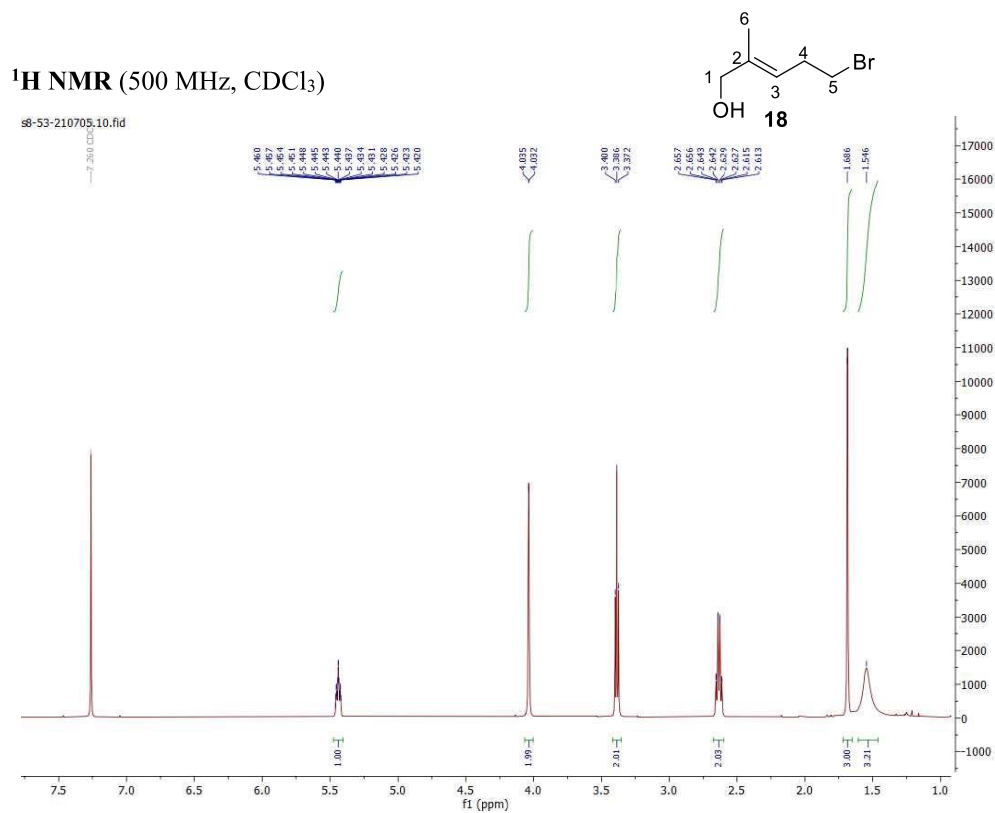
**$^{31}\text{P}$  NMR (121.5 MHz,  $\text{CDCl}_3$ )**

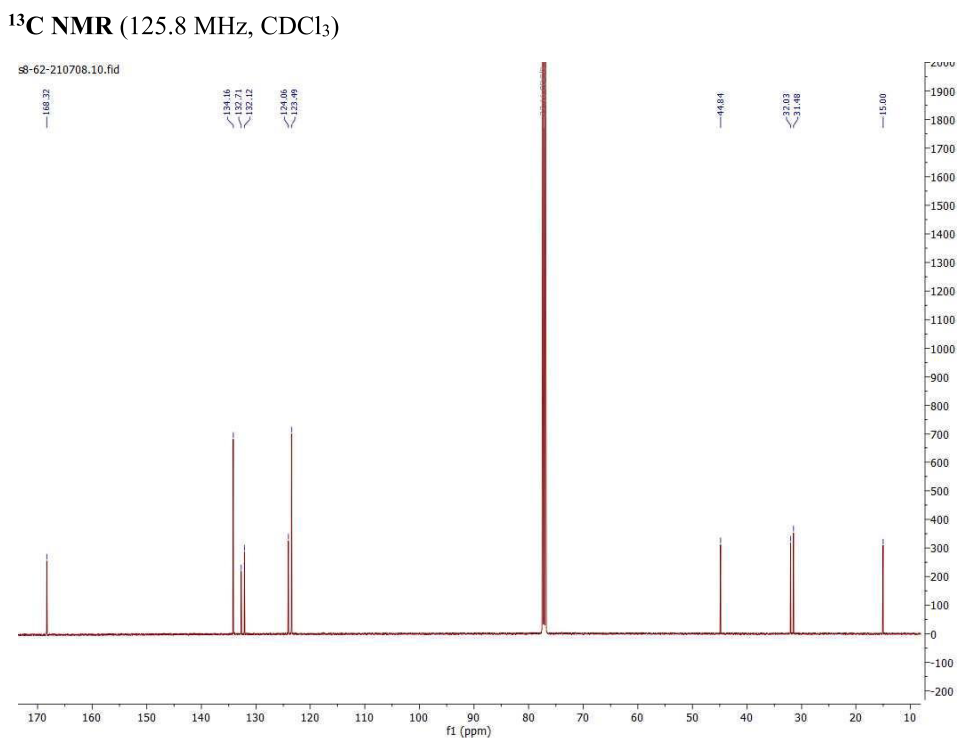
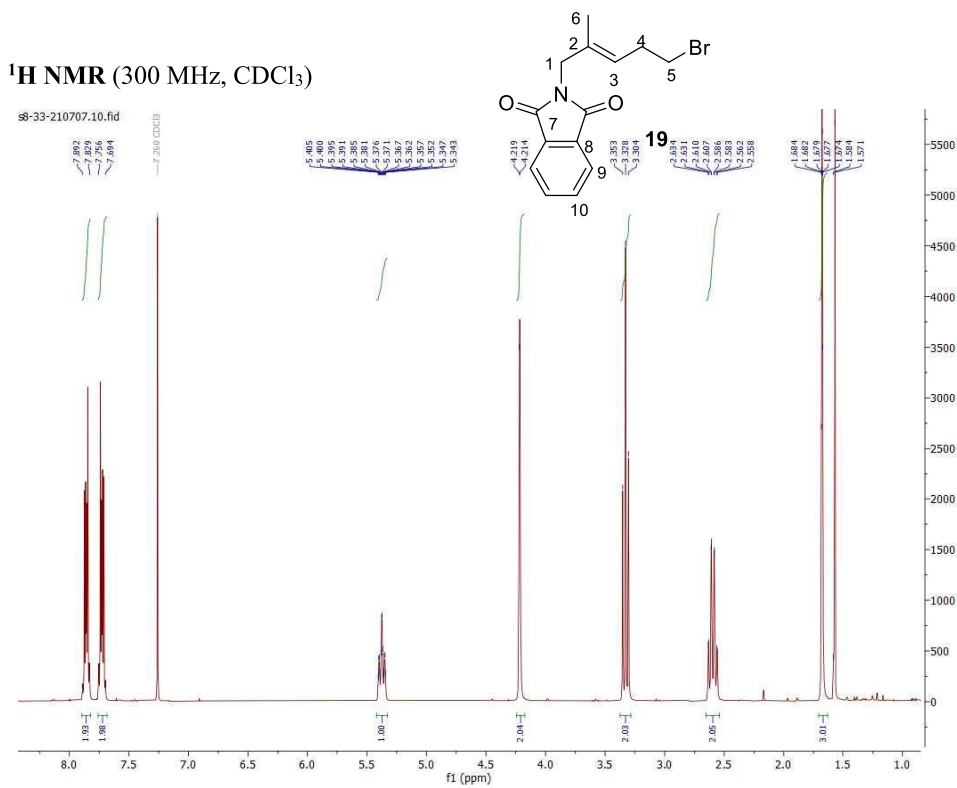


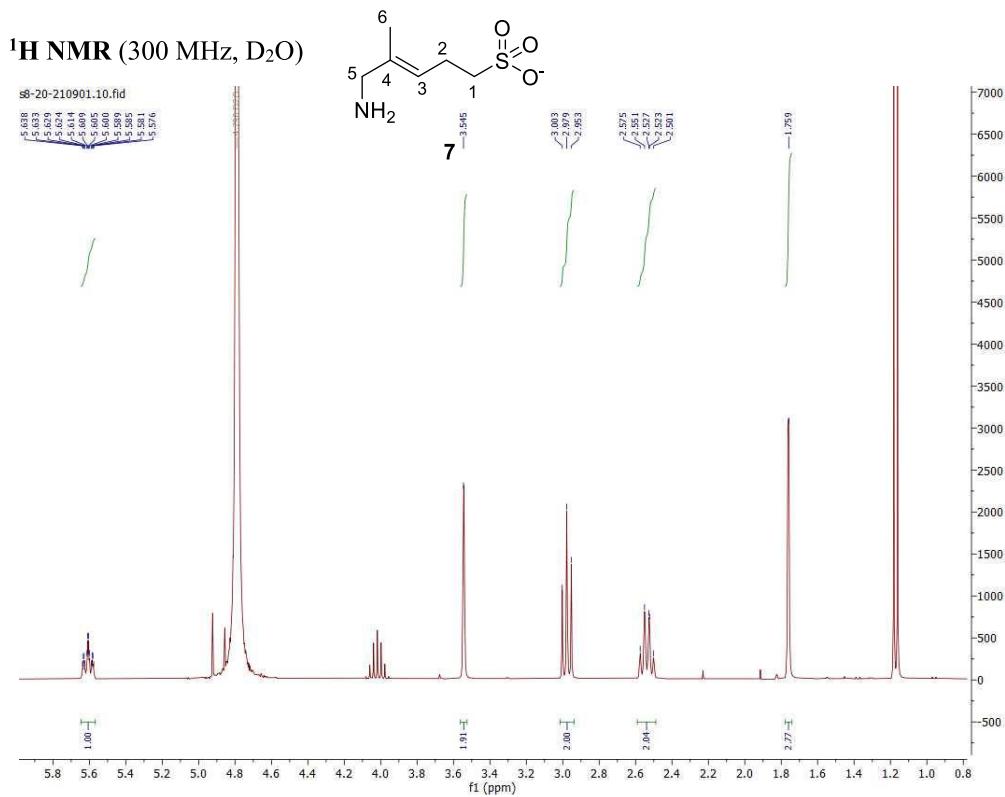
 **$^{13}\text{C}$  NMR (125.8 MHz,  $\text{CDCl}_3$ )**











**$^{13}\text{C}$  NMR (125.8 MHz,  $\text{D}_2\text{O}$ )**

