

# Supporting Information

## Mg and Zn Complexes with Phosphonate Substituted $\beta$ -Octaphenylporphyrins as Photocatalysts for Oxidation of Sulfide

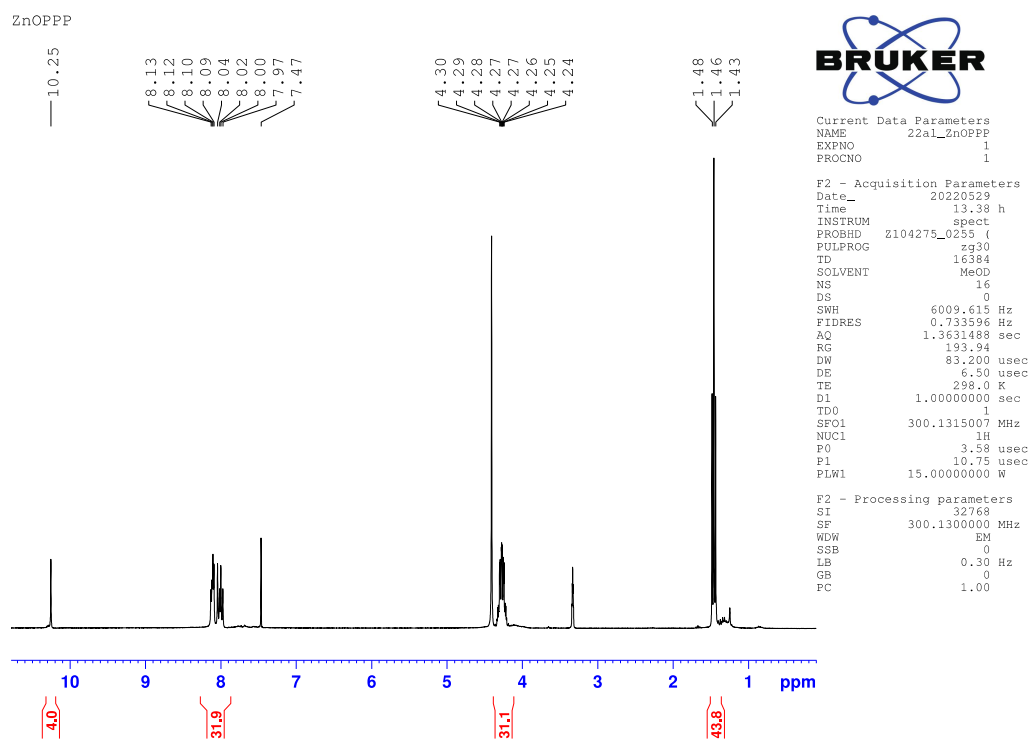
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Elizaveta V. Ermakova,<sup>a</sup> and Alla Bessmertnykh-Lemeune<sup>b@</sup>

<sup>a</sup>*Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, 119071 Moscow, Russia*

<sup>b</sup>*ENS de Lyon, UMR 5182, CNRS, Université Claude Bernard Lyon 1, Laboratoire de Chimie, 69342 Lyon, France*  
@Corresponding author E-mail: [alla.lemeune@ens-lyon.fr](mailto:alla.lemeune@ens-lyon.fr)

### NMR and HRMS data for MOPPP



**Figure S1.** <sup>1</sup>H NMR spectrum of **ZnOPPP** (CDCl<sub>3</sub>/CD<sub>3</sub>OD (2:1, v/v), 300 MHz, 298 K).

ZnOPPP

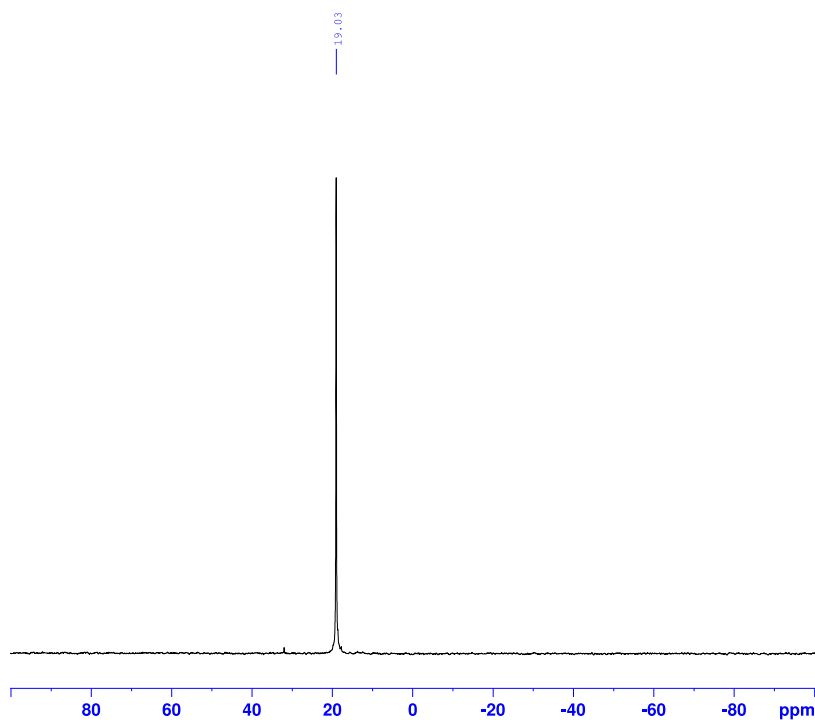


Figure S2. <sup>31</sup>P NMR spectrum of ZnOPPP (CDCl<sub>3</sub>/CD<sub>3</sub>OD (2:1, v/v), 121.4 MHz, 298 K).

ZnOPPP

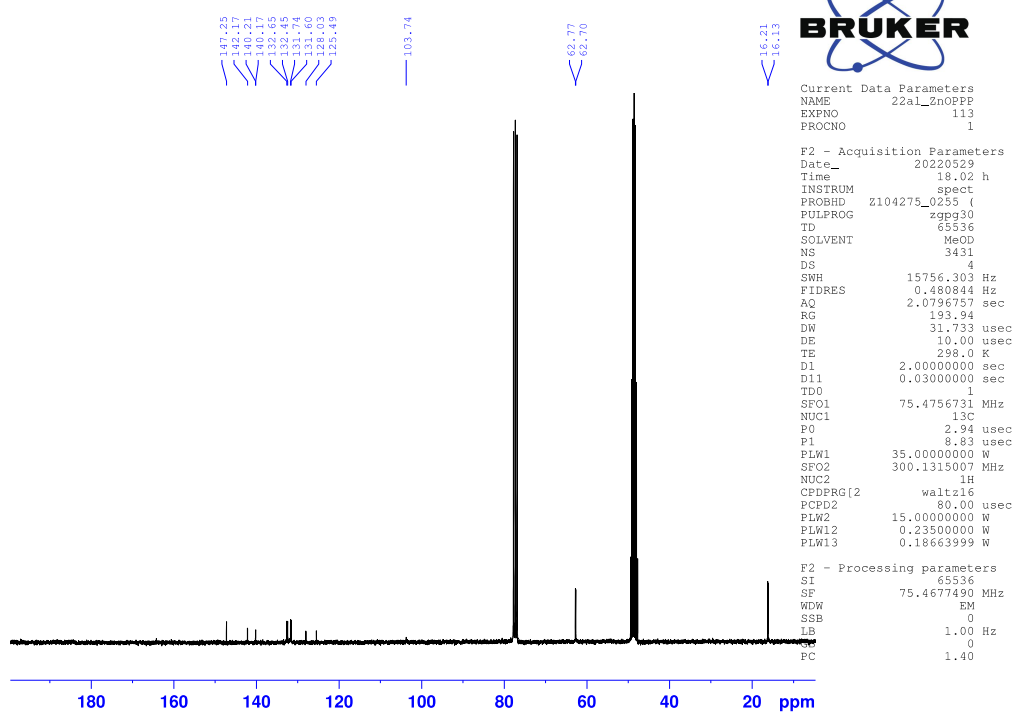


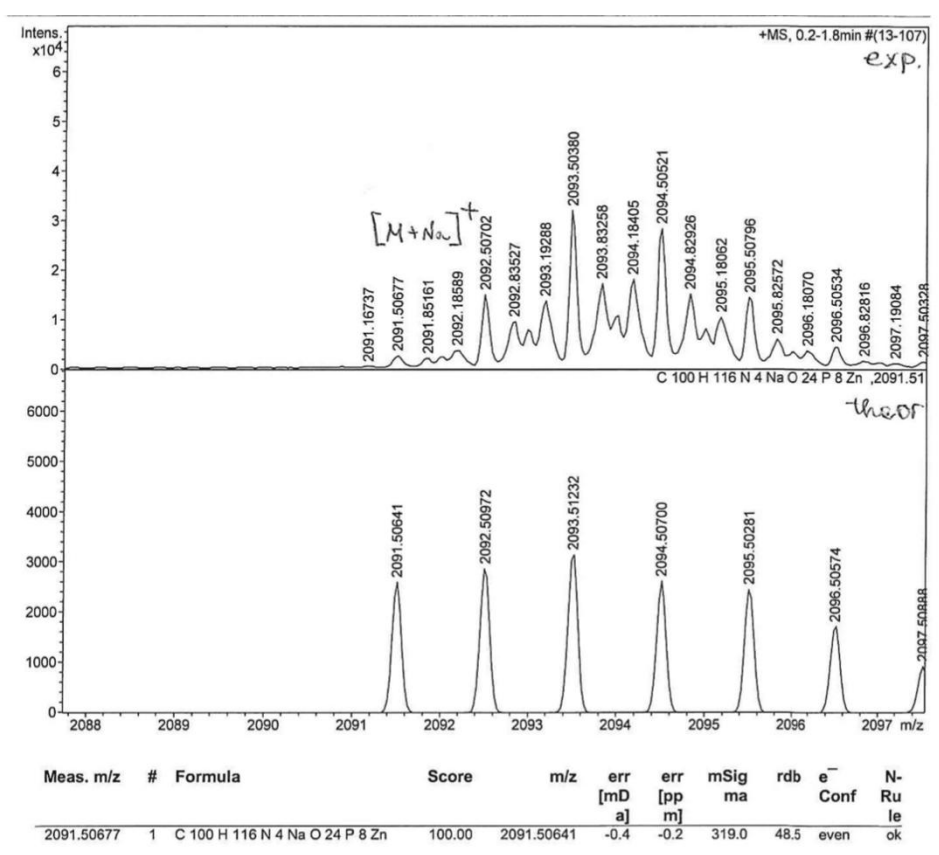
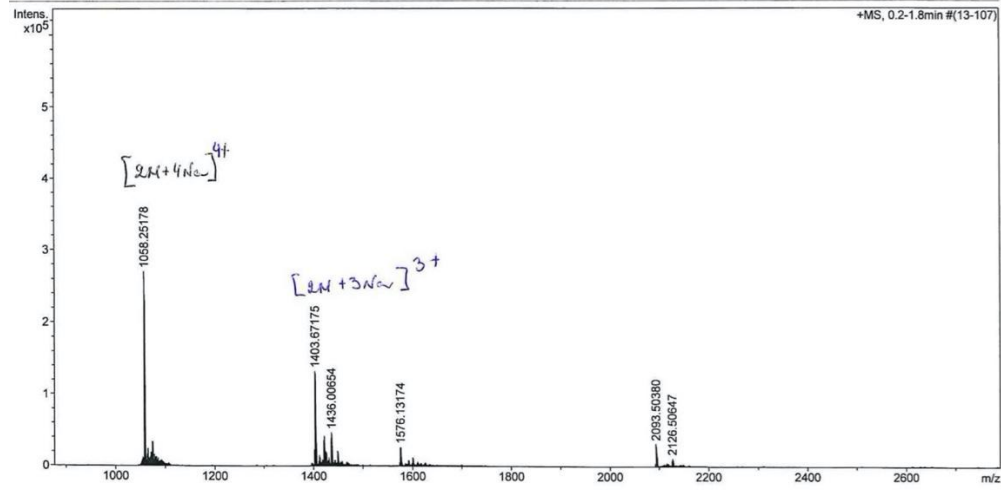
Figure S3. <sup>13</sup>C NMR spectrum of ZnOPPP (CDCl<sub>3</sub>/CD<sub>3</sub>OD (2:1, v/v), 75.5 MHz, 298 K).

# Display Report

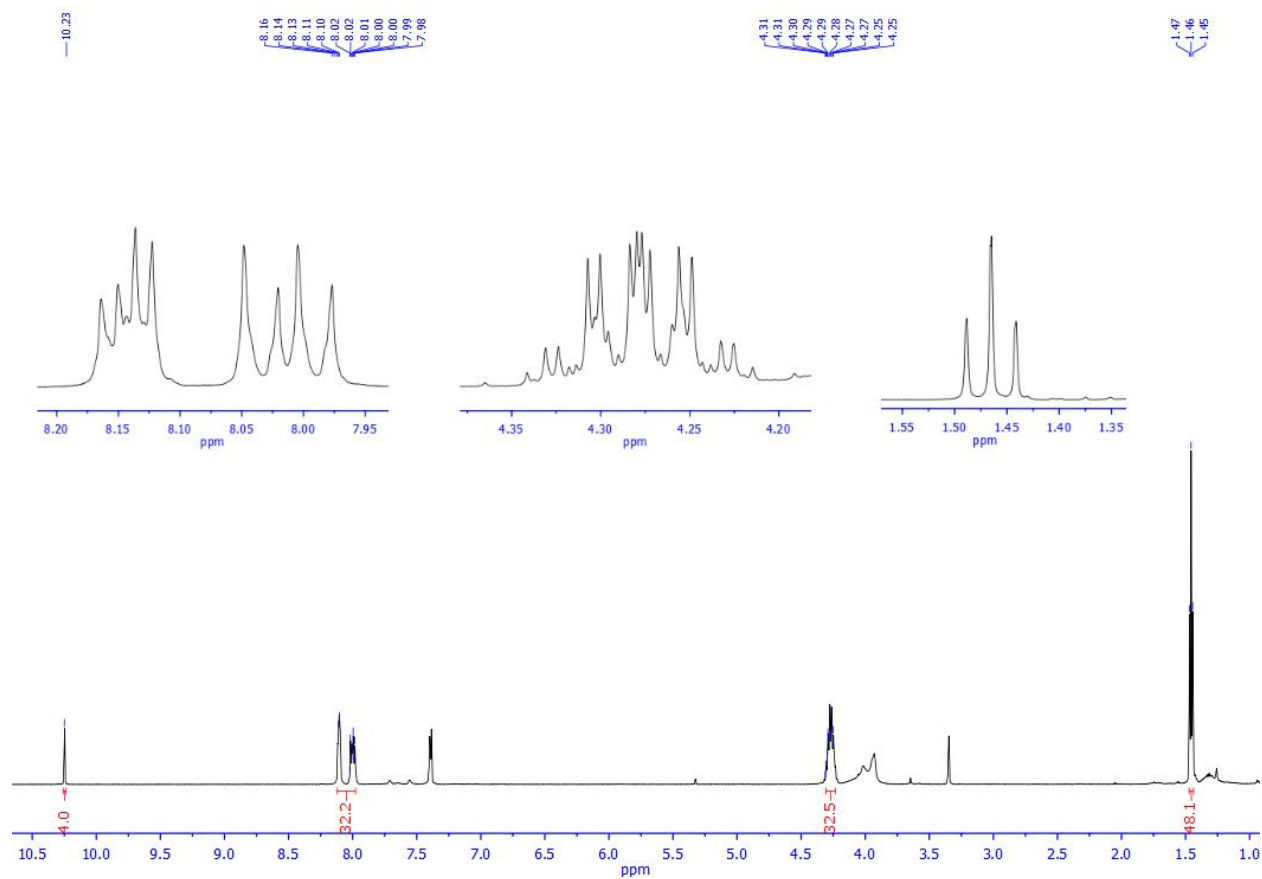
*zm*

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Sample Name	dcm/MeOH	Instrument	micrOTOF-Q 56

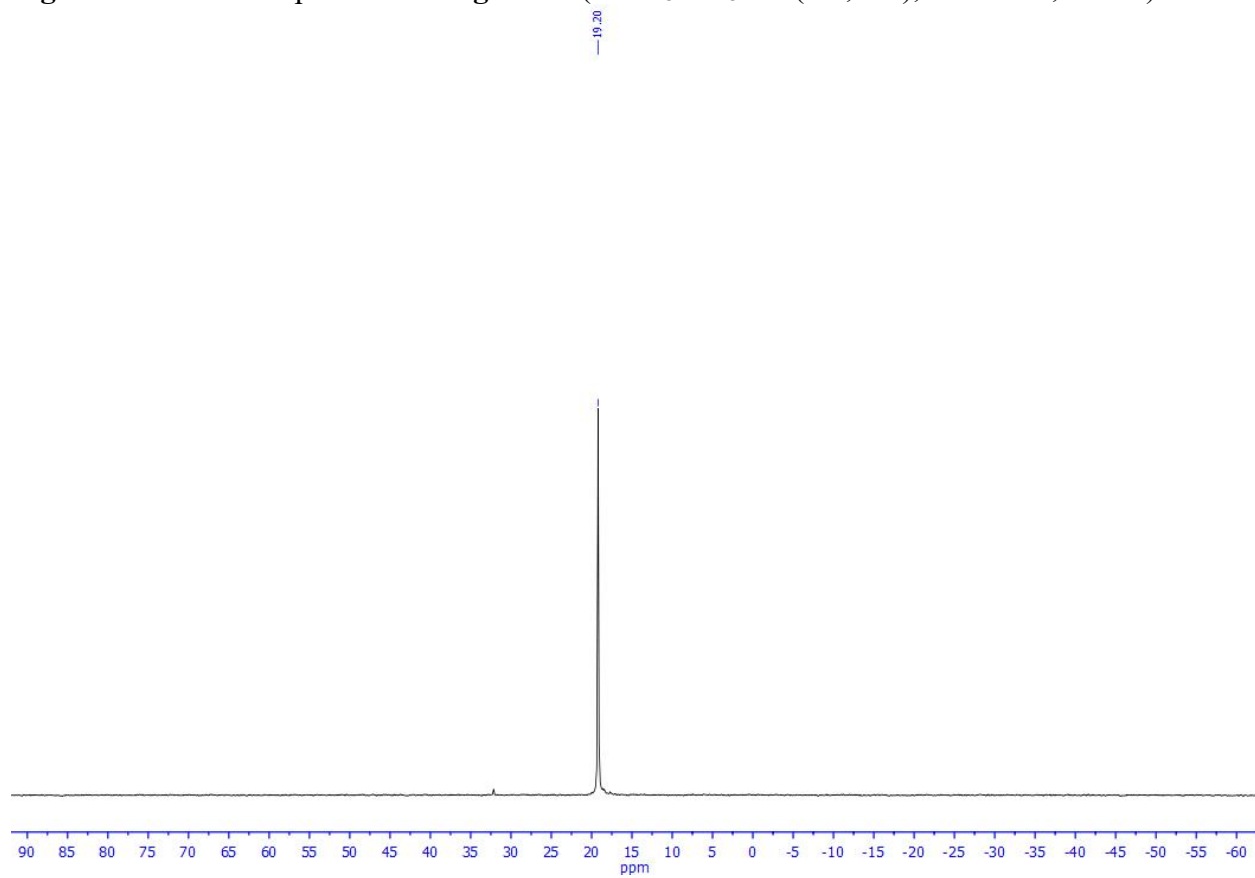
<b>Acquisition Parameter</b>					
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Scan End	3000 m/z	Set Collision Cell RF	2000.0 Vpp	Set Divert Valve	Source



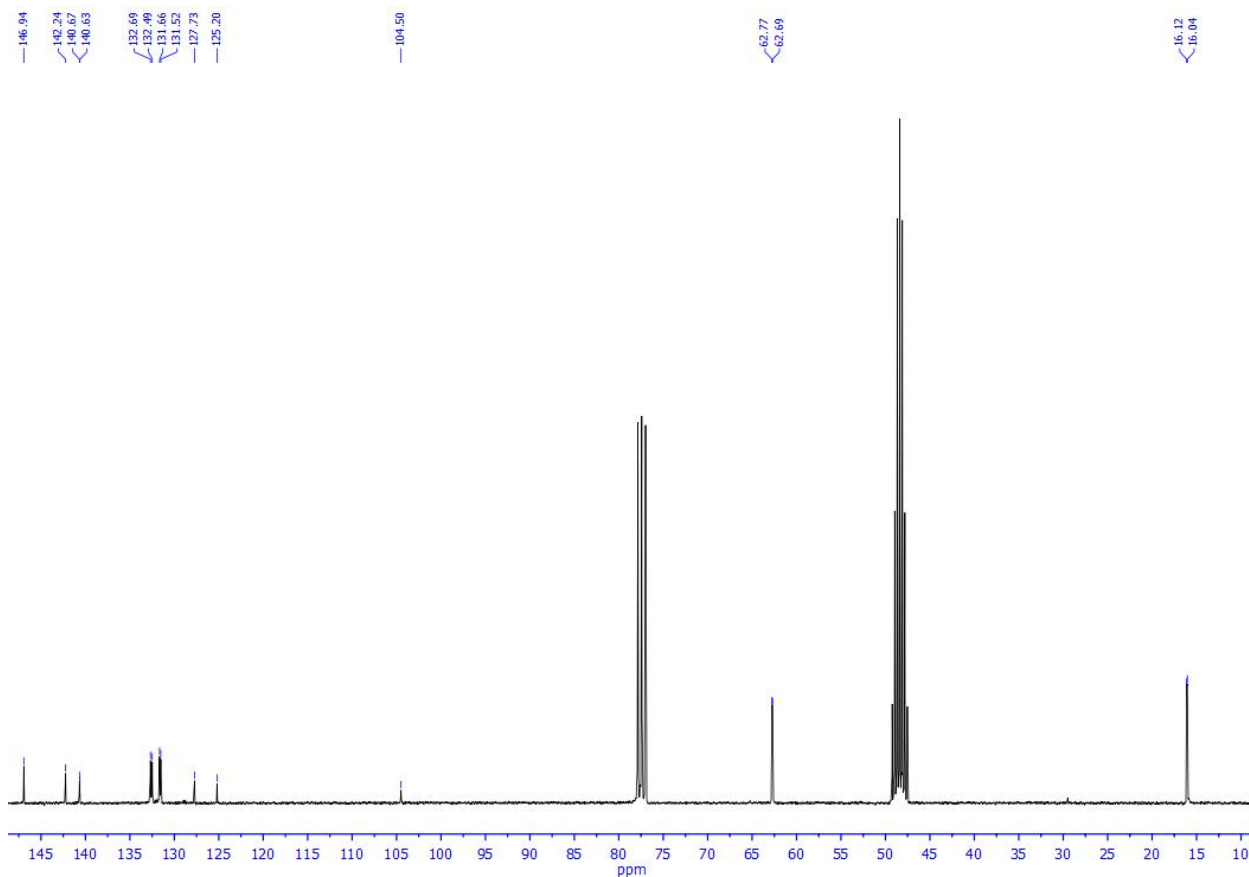
**Figure S4.** HR-ESI mass spectrum of ZnOPPP.



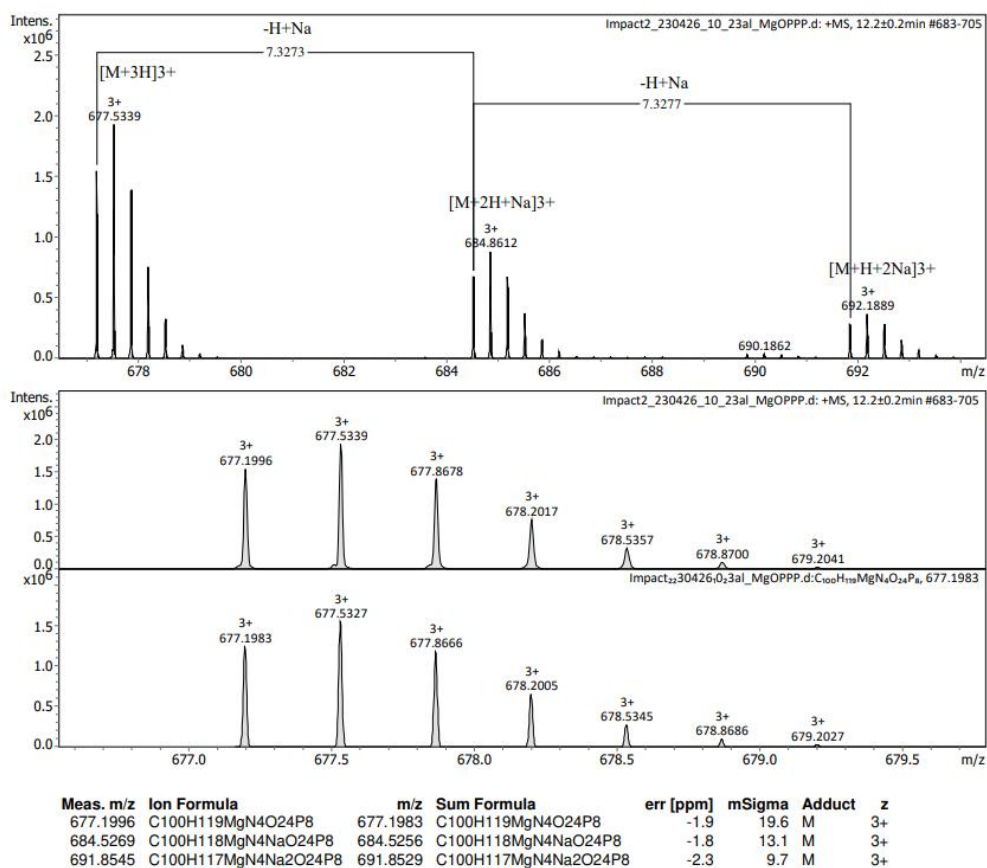
**Figure S5.**  $^1\text{H}$  NMR spectrum of **MgOPPP** ( $\text{CDCl}_3/\text{CD}_3\text{OD}$  (2:1, v/v), 300 MHz, 298 K).

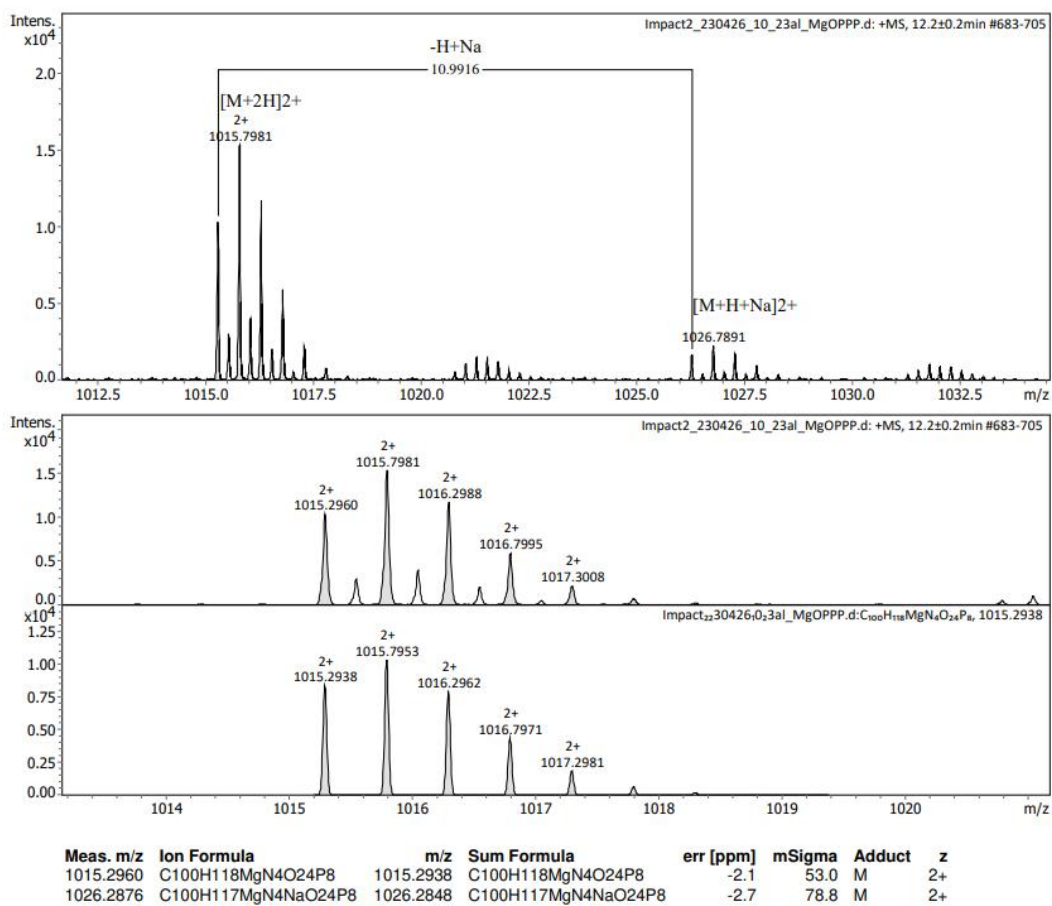


**Figure S6.**  $^{31}\text{P}$  NMR spectrum of **MgOPPP** ( $\text{CDCl}_3/\text{CD}_3\text{OD}$  (2:1, v/v), 300 MHz, 298 K).



**Figure S7.**  $^{13}\text{C}$  NMR spectrum of **MgOPPP** ( $\text{CDCl}_3/\text{CD}_3\text{OD}$  (2:1, v/v), 300 MHz, 298 K).





**Figure S8.** HR-ESI mass spectrum of MgOPPP.