

Supporting Information

## **Synthesis and Catalytic Application of Magnesium Complexes Bearing Pendant Indolyl**

### **Ligands**

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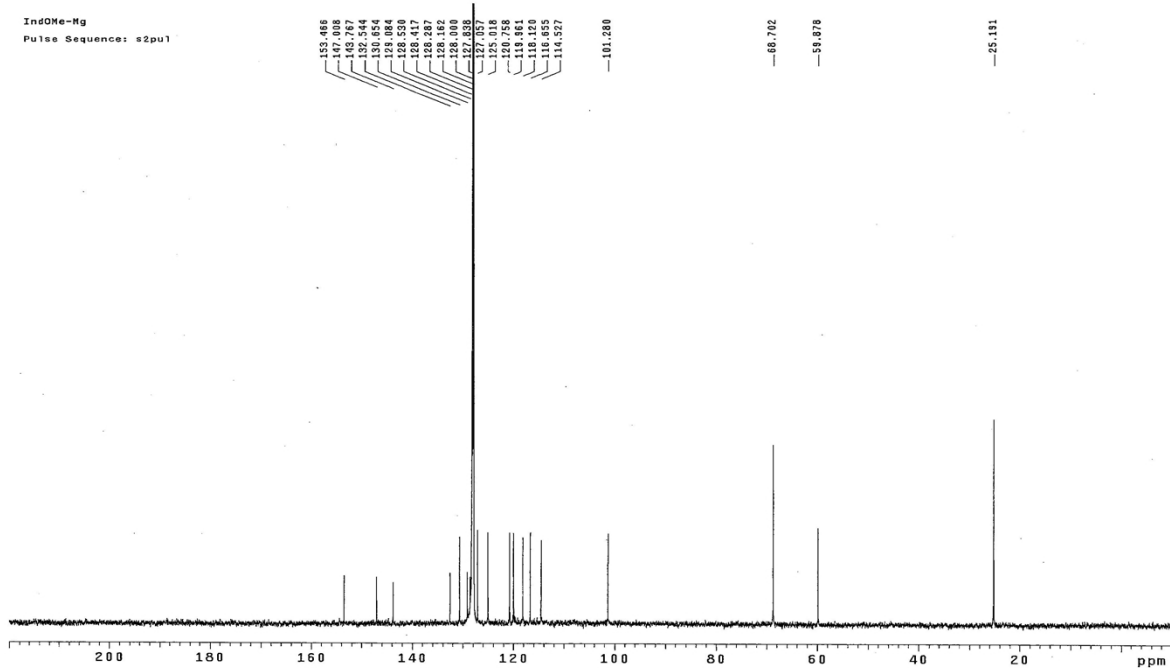
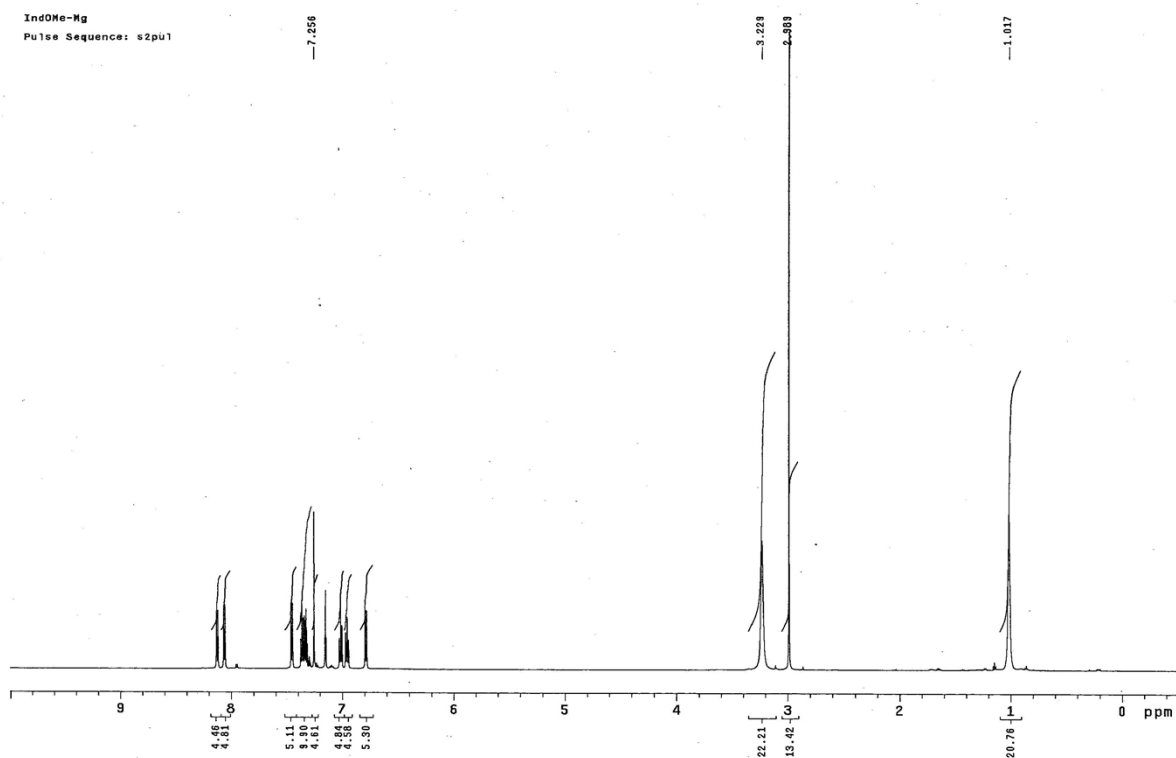


Figure S1. NMR spectra of 3a.

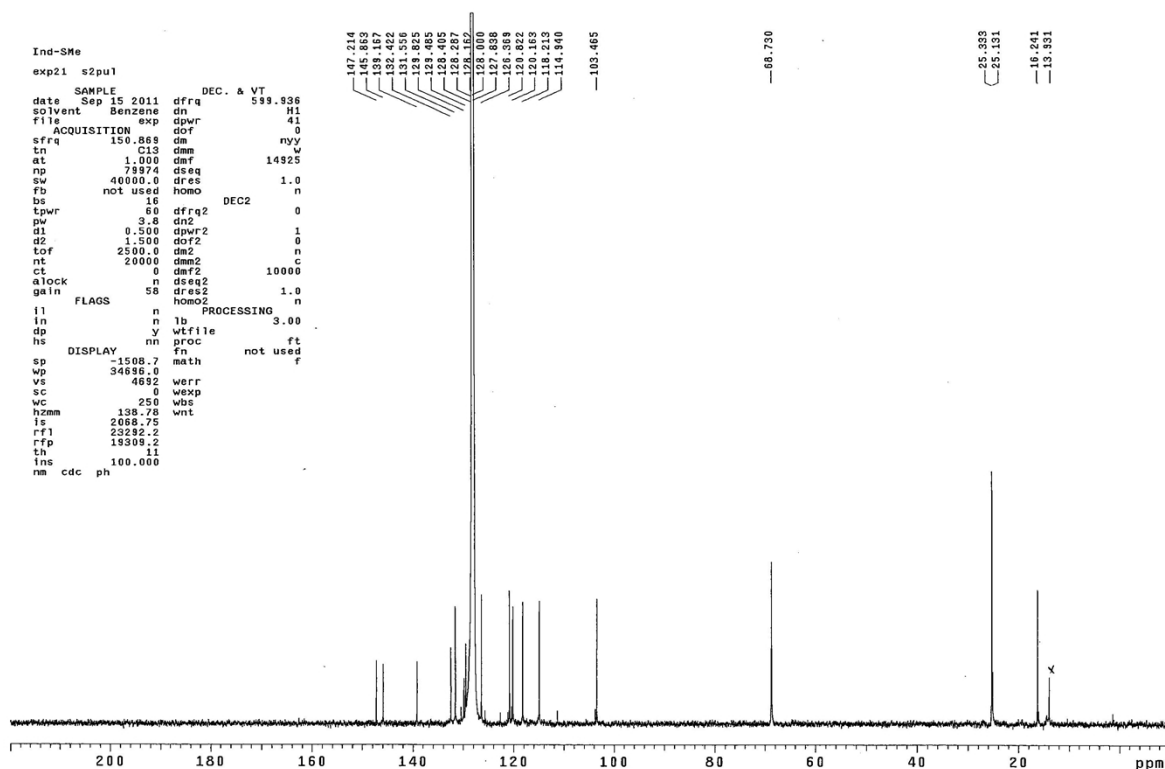
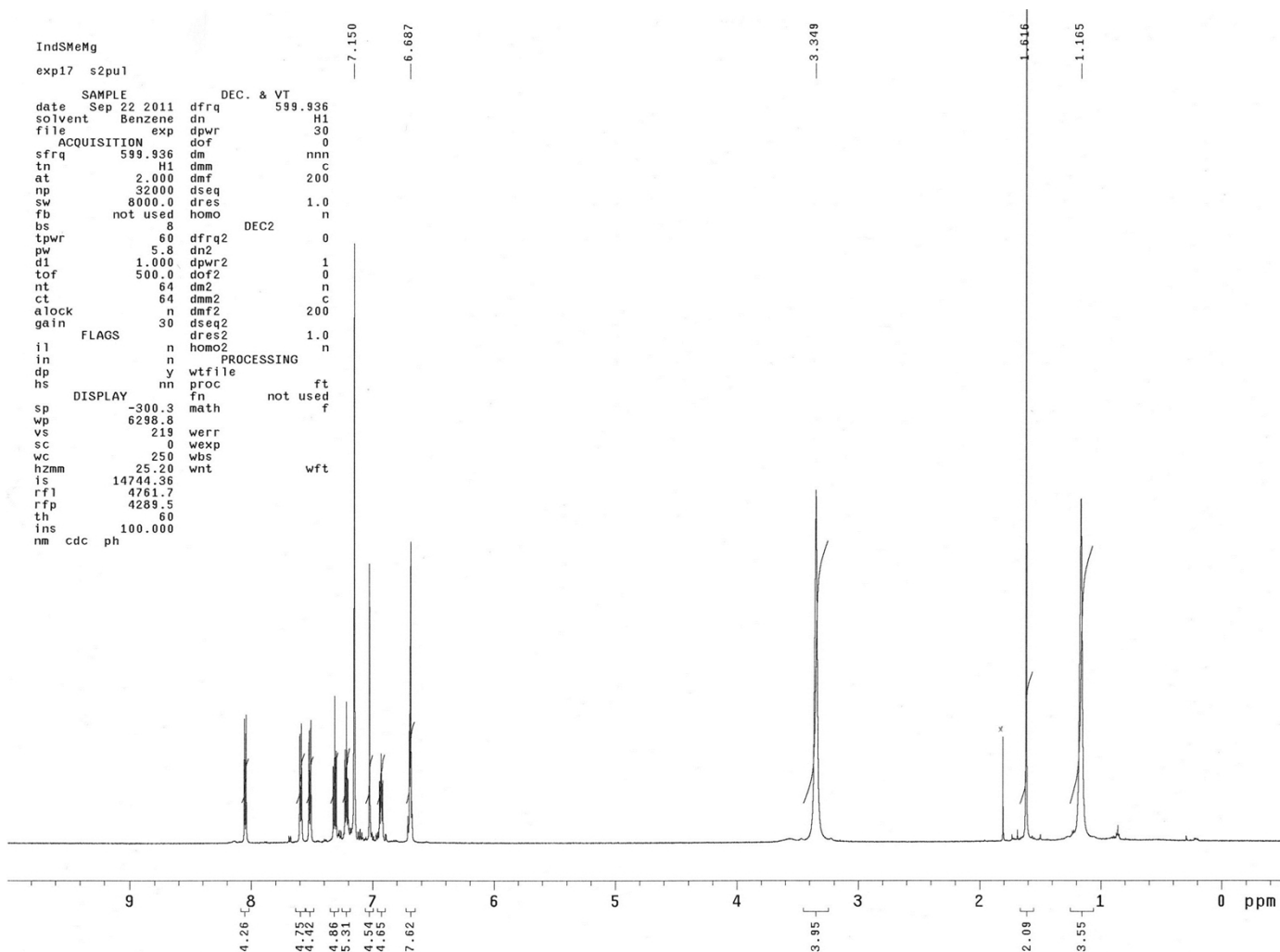


Figure S2. NMR spectra of 3b.

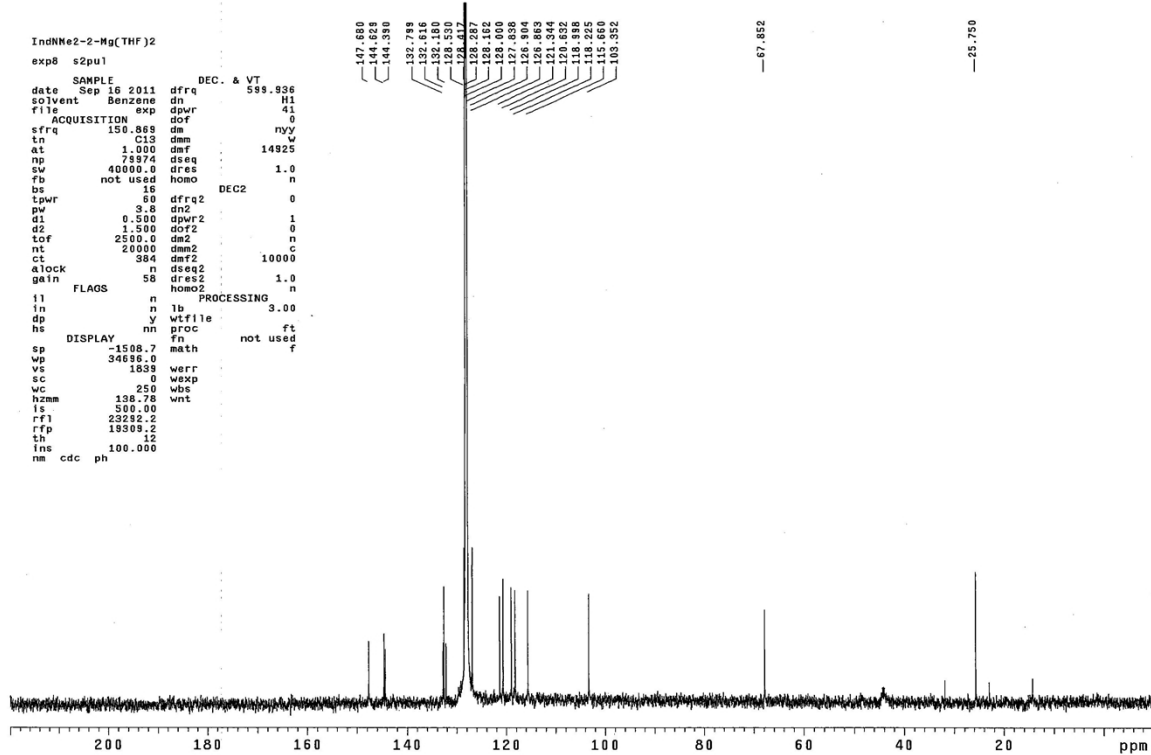
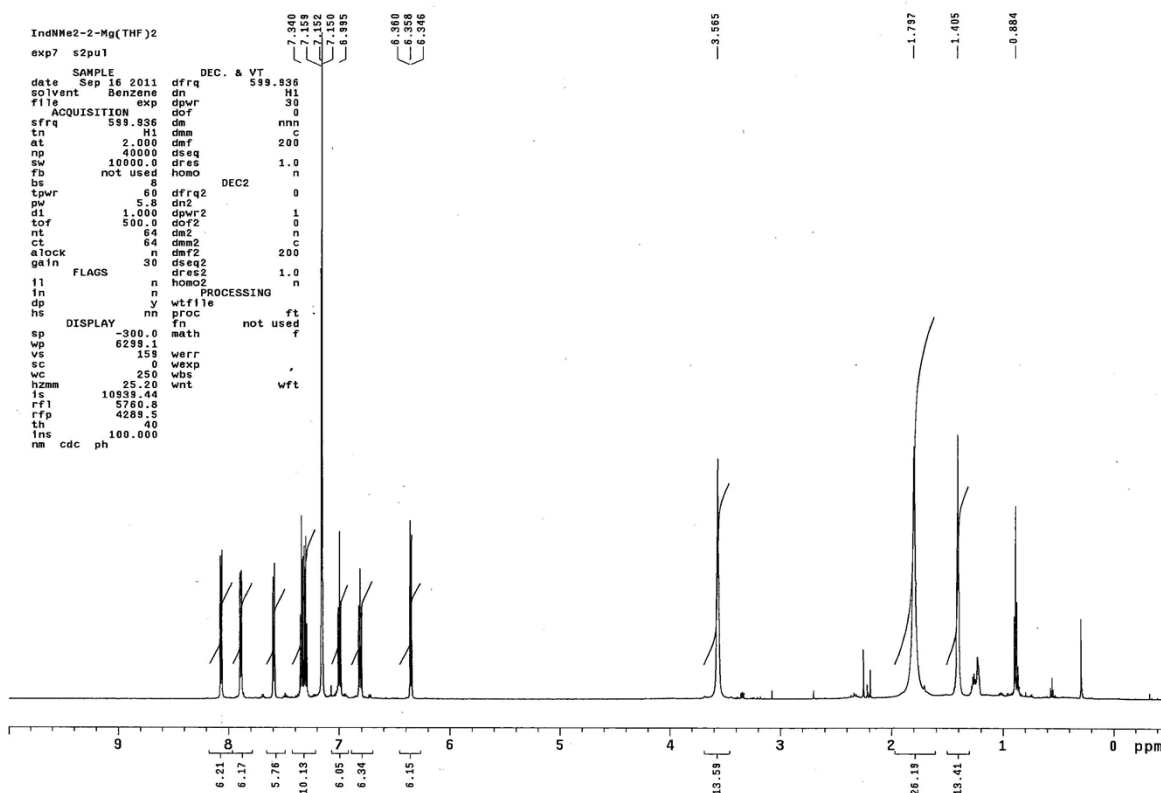
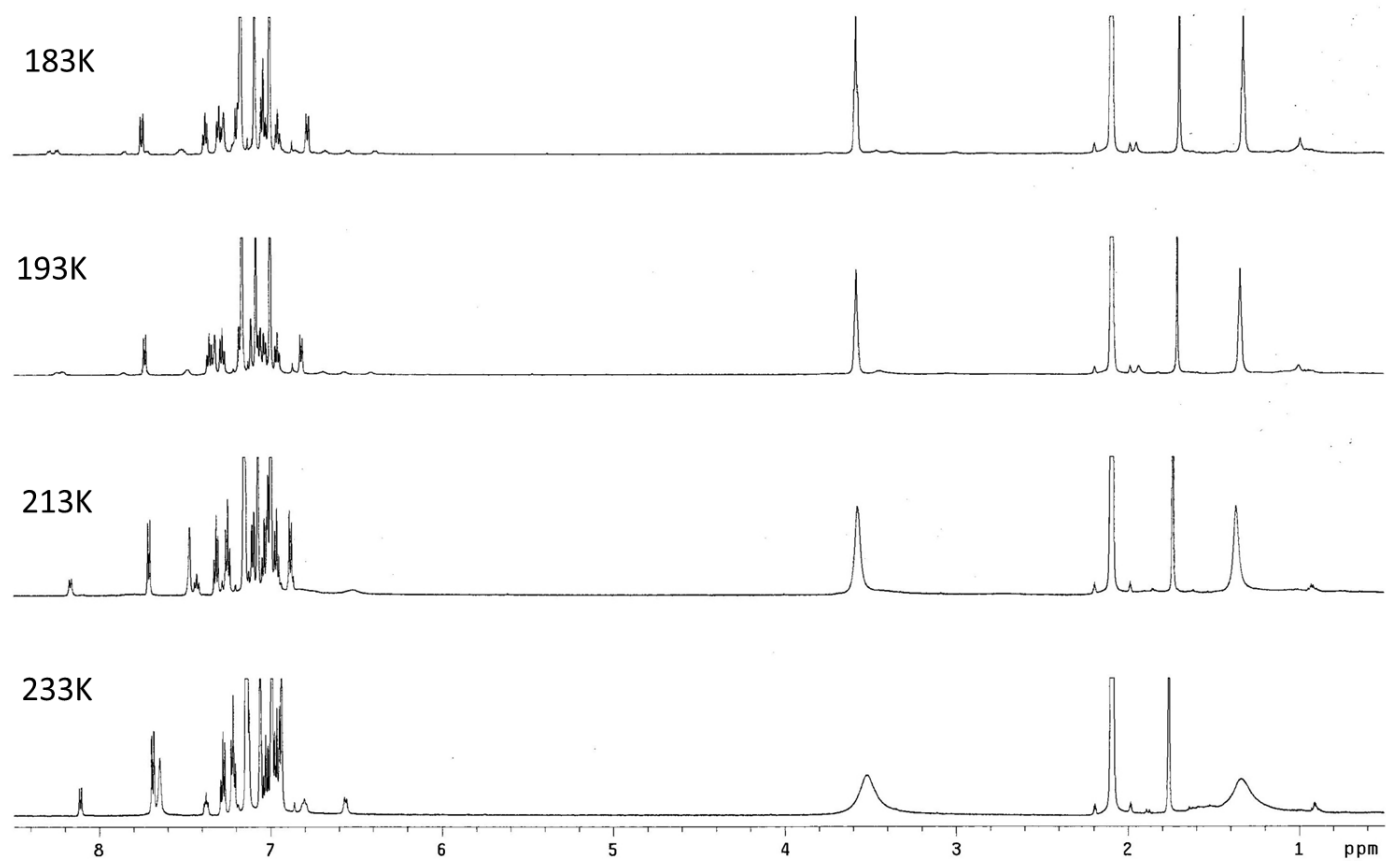
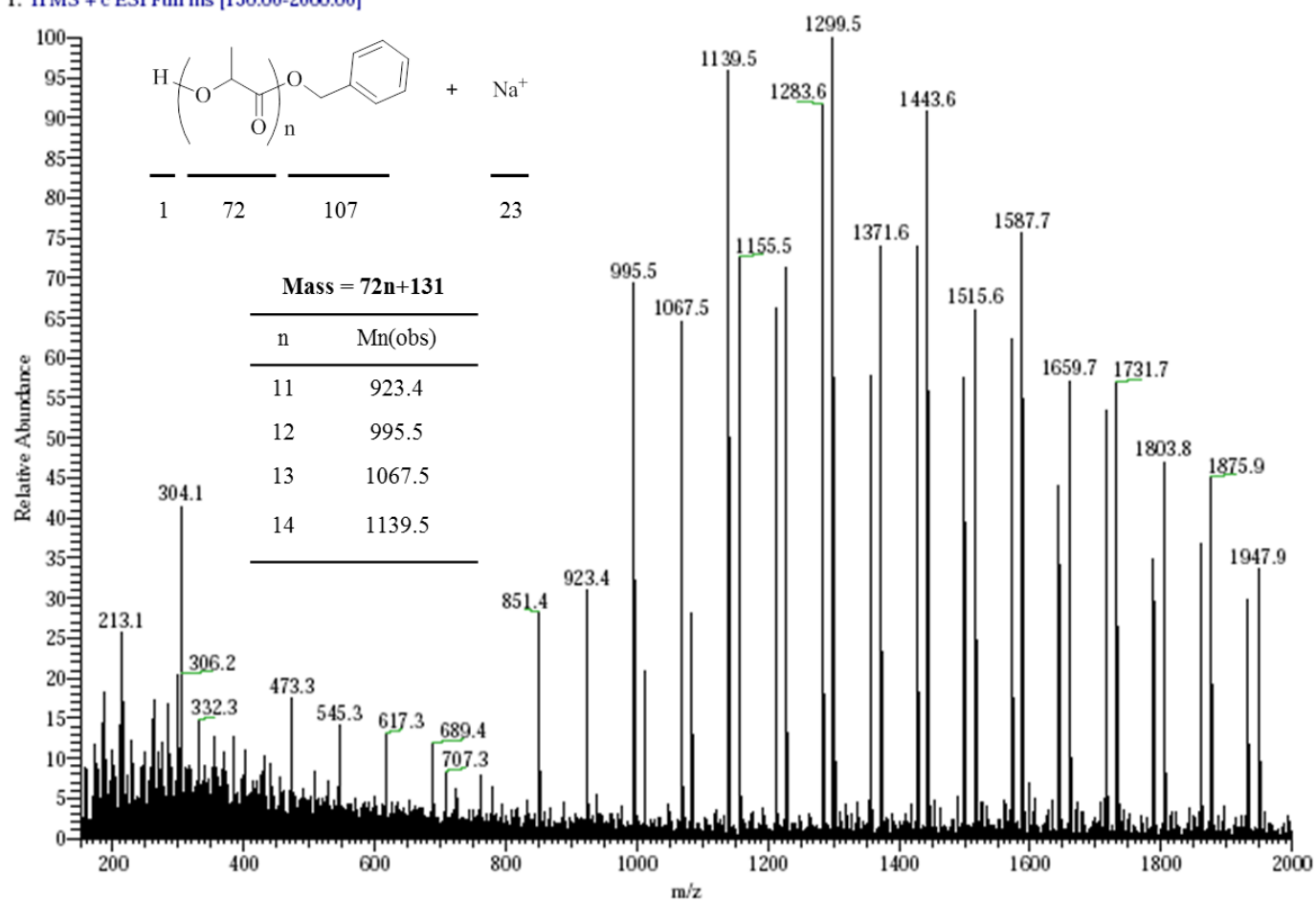


Figure S3 NMR spectra of **3c**.



**Figure S4** Variable temperature  $^1\text{H}$  NMR spectra for **3b** were performed in  $d_8$ -toluene.



**Figure S5** ESI mass spectrum of the oligomer of L-lactide using **3b** as catalyst (doped with  $\text{Na}^+$ ). Conditions:  $[\text{LA}]_0:[\text{3b}]:[\text{BnOH}]=10:1:1$  in 2.5 mL  $\text{CH}_2\text{Cl}_2$ , at  $0^\circ\text{C}$ , 8 min, 89%.