

*Electronic Supplementary Information for:*

**Ruthenium complexes bearing an unsymmetrical pincer ligand with  
a 2-hydroxypyridylmethylene fragment: active catalysts for transfer  
hydrogenation of ketones**

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# <sup>1</sup>H NMR Spectra

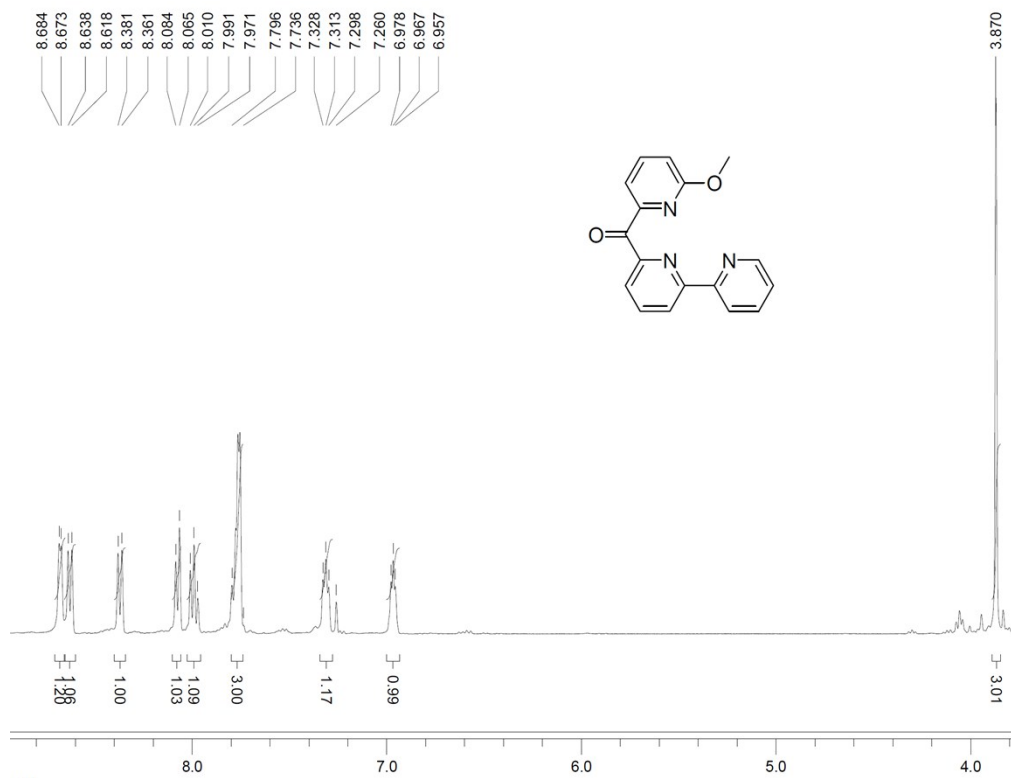


Figure S1. <sup>1</sup>H NMR spectrum of **B** in CDCl<sub>3</sub>.

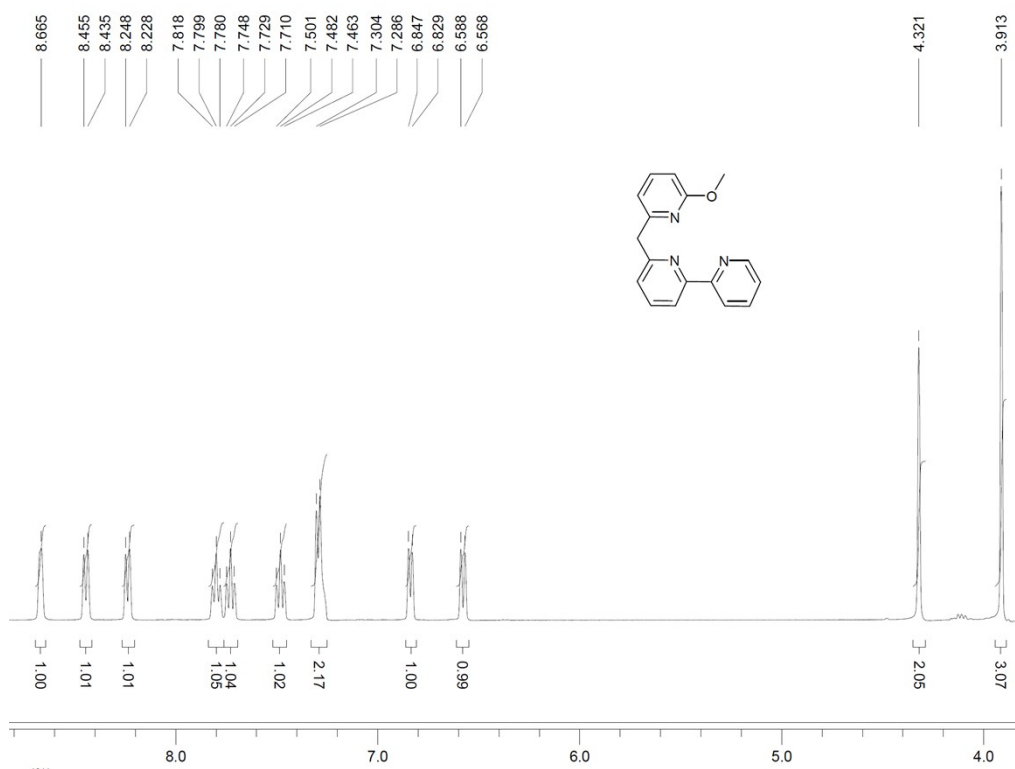


Figure S2. <sup>1</sup>H NMR spectrum of **1** in CDCl<sub>3</sub>.

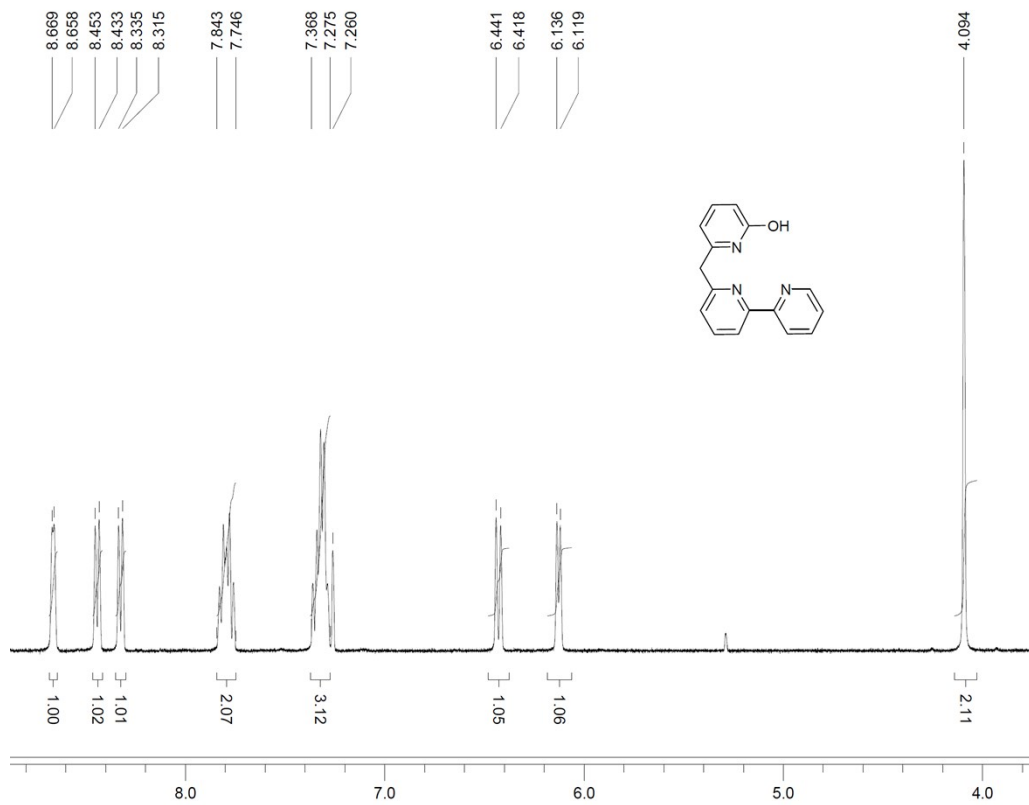


Figure S3.  $^1\text{H NMR}$  spectrum of **2** in  $\text{CDCl}_3$ .

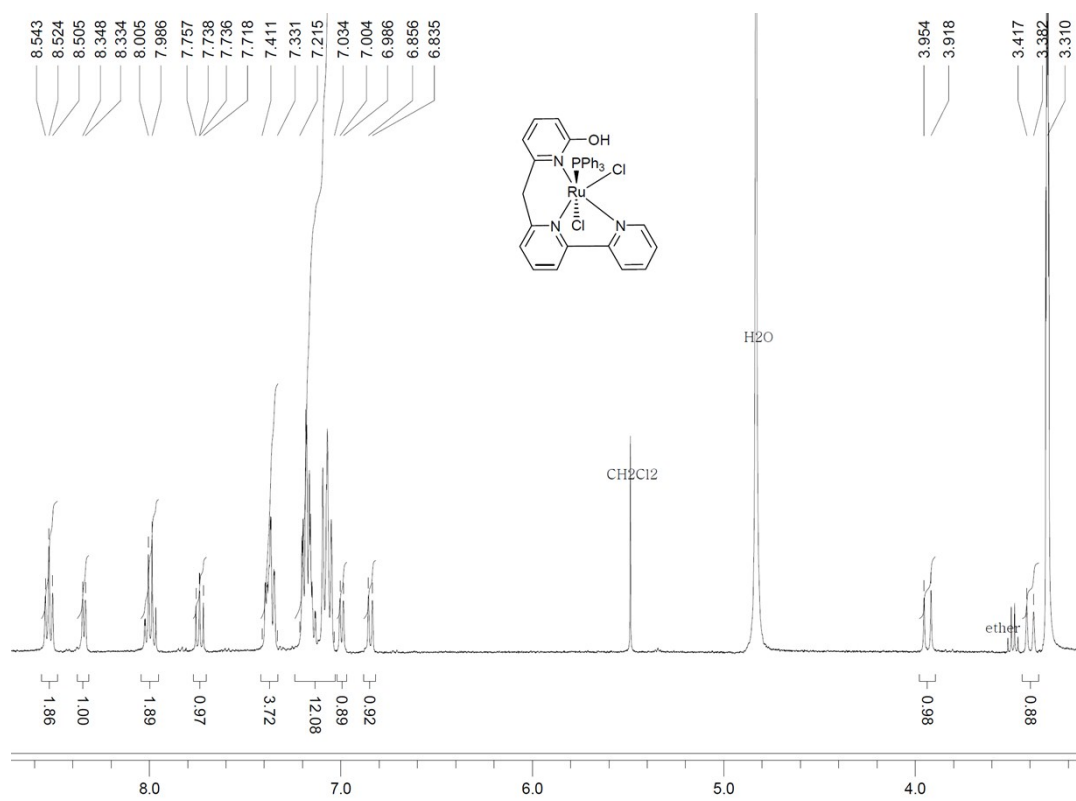


Figure S4.  $^1\text{H NMR}$  spectrum of **3** in  $\text{CD}_3\text{OD}$ .

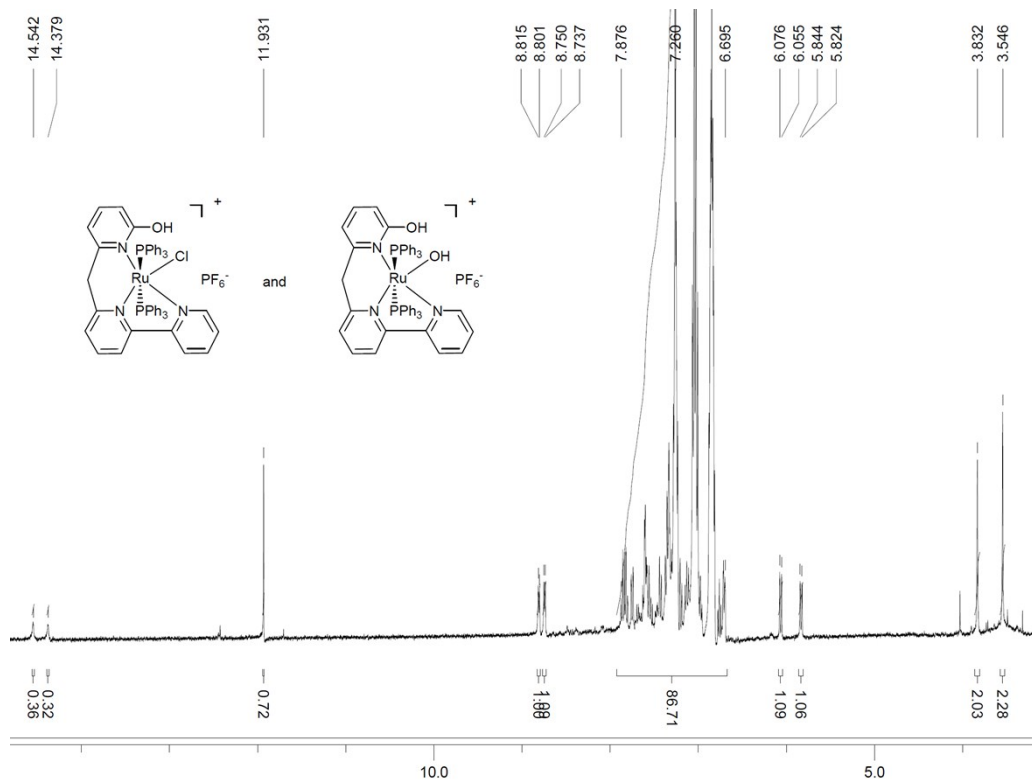


Figure S5. <sup>1</sup>H NMR spectrum of a mixture of **4** and **5** in CDCl<sub>3</sub>. (mol rate ≈ 1:1)

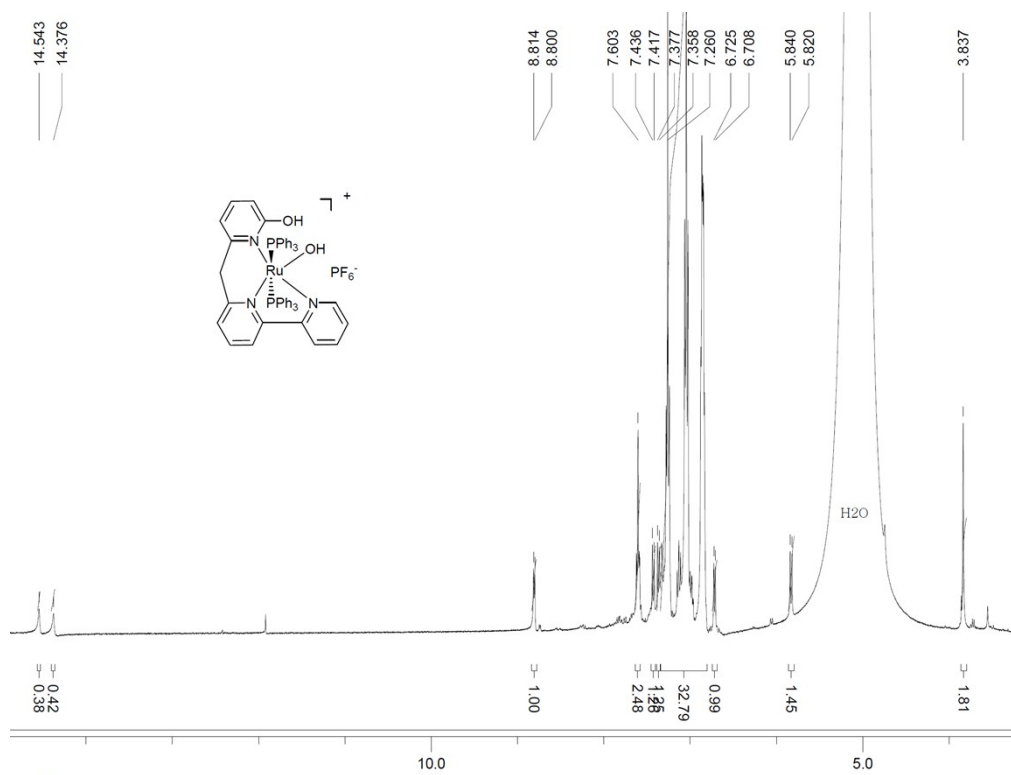


Figure S6. <sup>1</sup>H NMR spectrum of **5** in CDCl<sub>3</sub>.

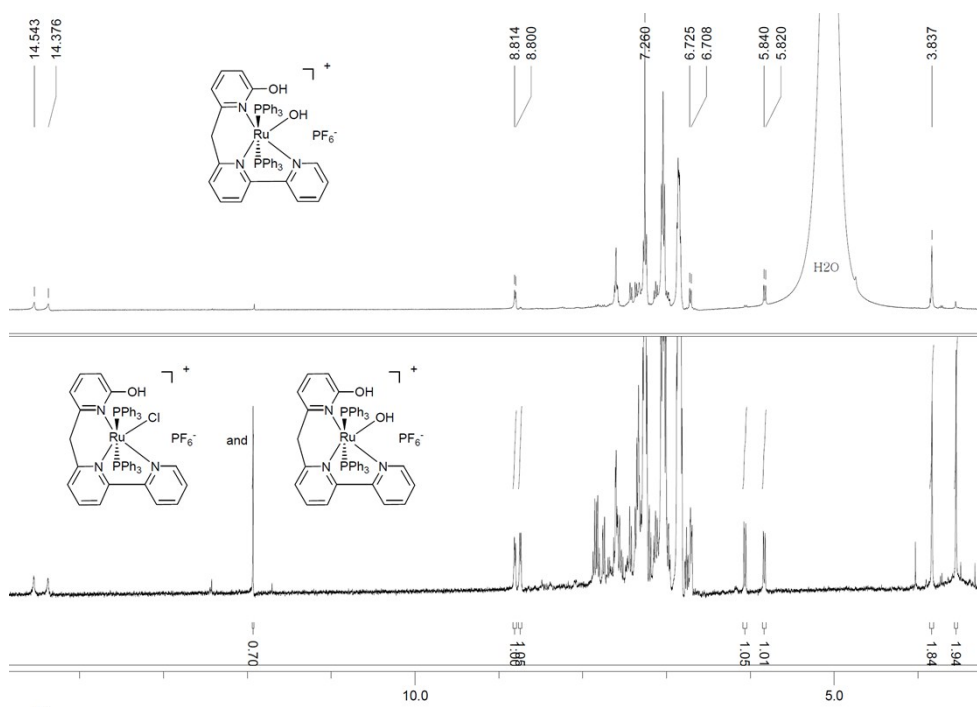


Figure S7. Comparison of  $^1\text{H}$  NMR spectra of **5** (top) with the mixture of **4** and **5** (bottom) in  $\text{CDCl}_3$ .

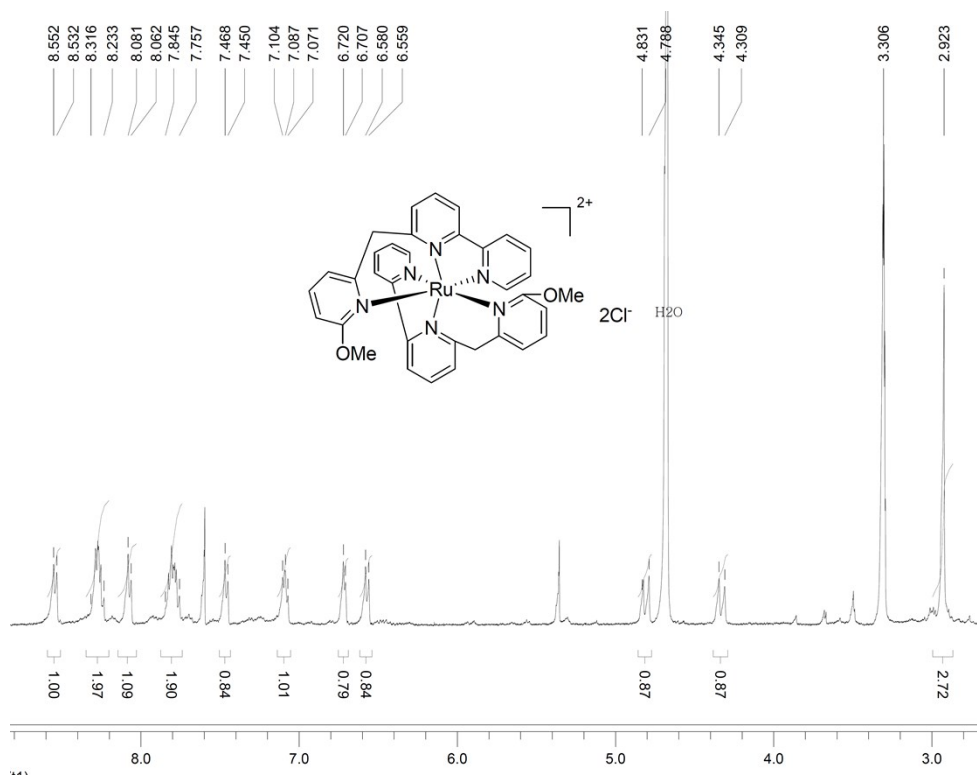


Figure S8.  $^1\text{H}$  NMR spectrum of **6** in  $\text{CD}_3\text{OD}$ .

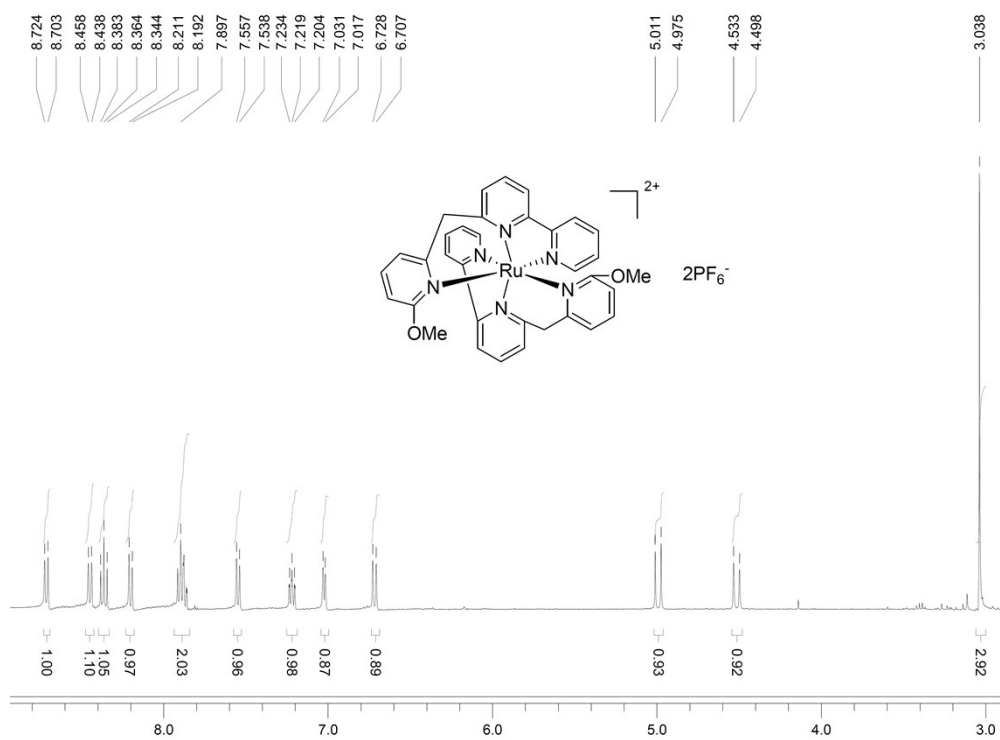


Figure S9. <sup>1</sup>H NMR spectrum of **7** in CD<sub>3</sub>COCD<sub>3</sub>.

### $^{31}\text{P}$ NMR spectra

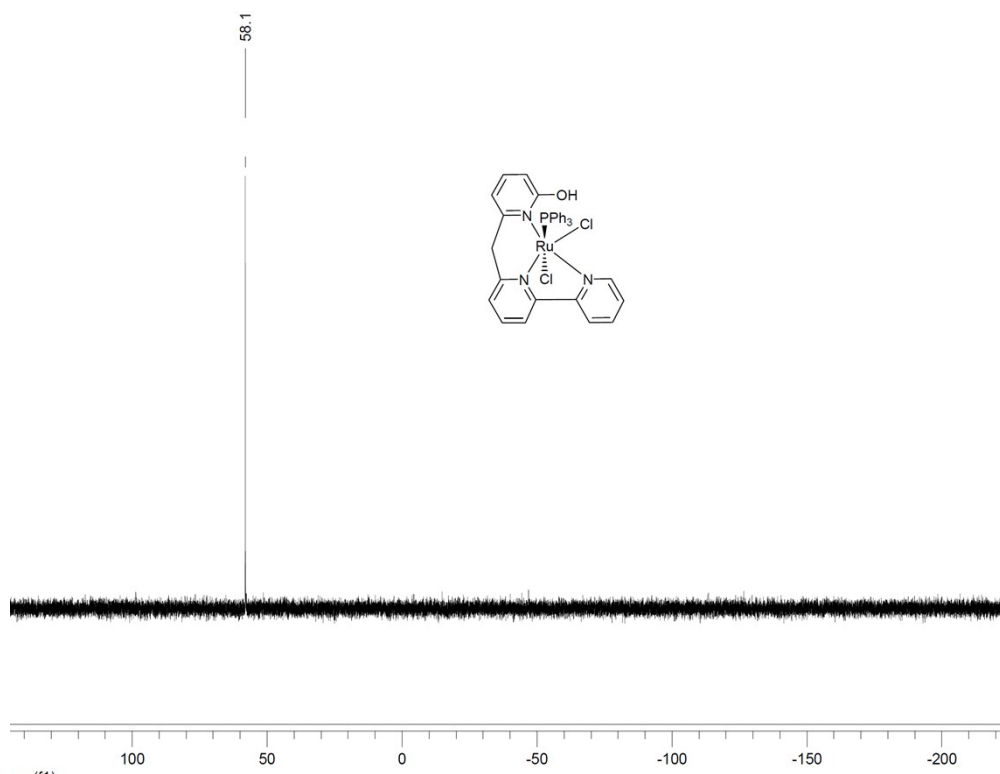


Figure S10.  $^{31}\text{P}$  NMR spectrum of **3** in  $\text{CD}_3\text{OD}$ .

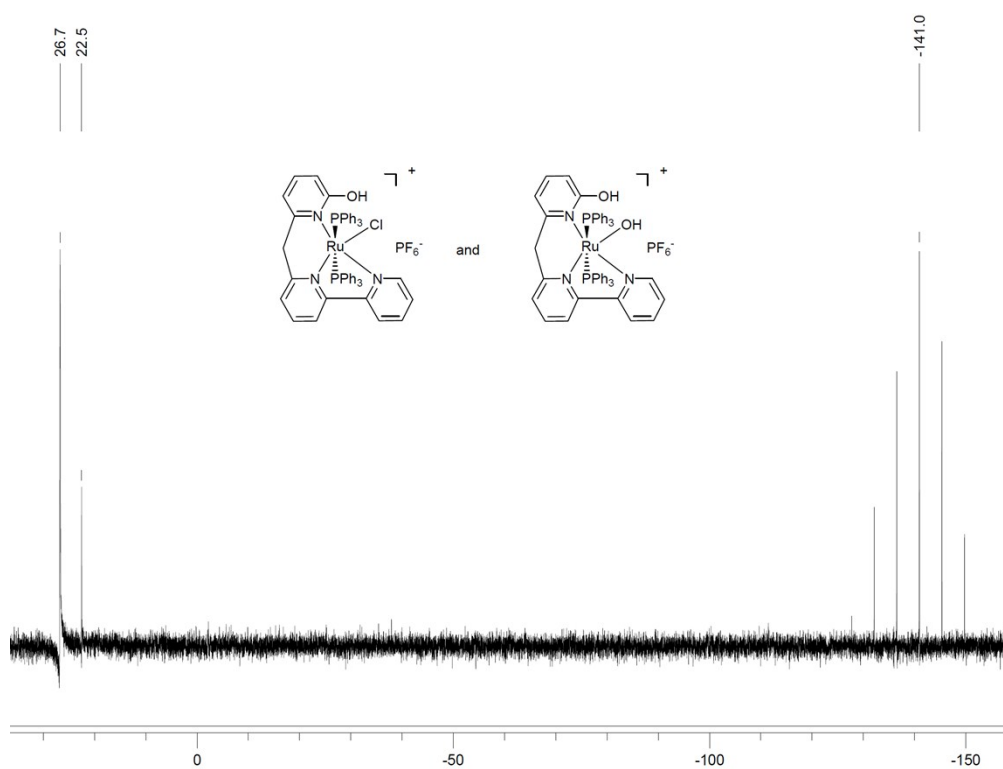


Figure S11.  $^{31}\text{P}$  NMR spectrum of a mixture of **4** and **5** in  $\text{CDCl}_3$ .

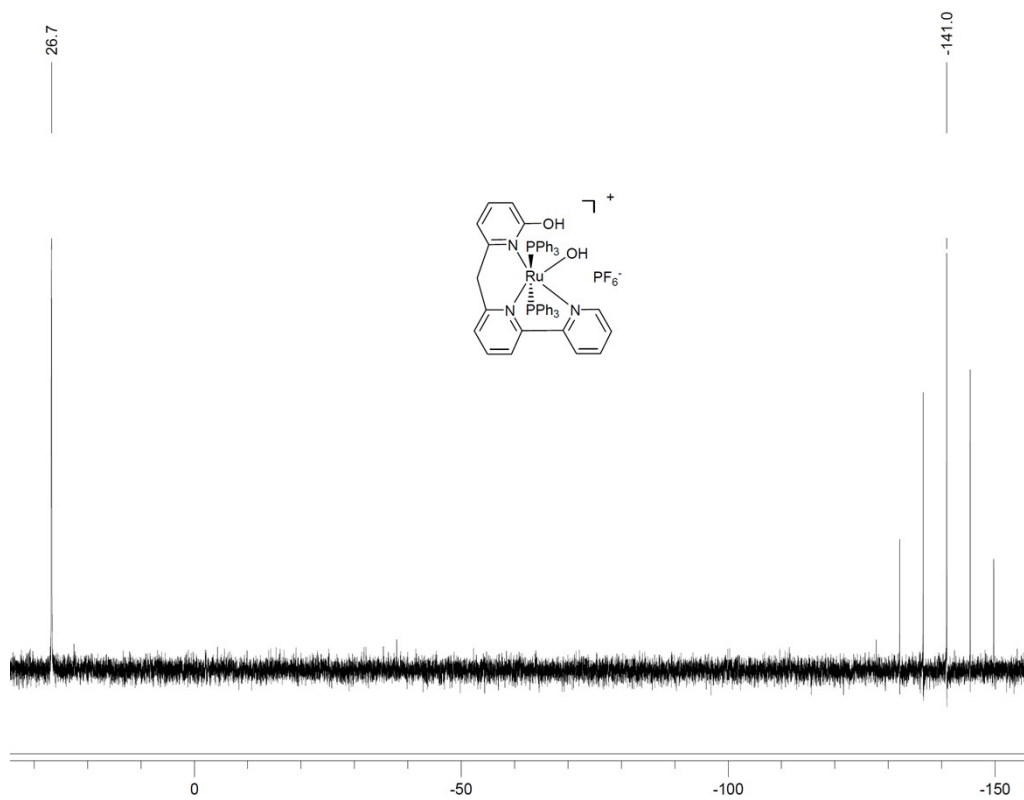


Figure S12.  $^{31}\text{P}$  NMR spectrum of **5** in  $\text{CDCl}_3$ .



# <sup>13</sup>C NMR Spectra

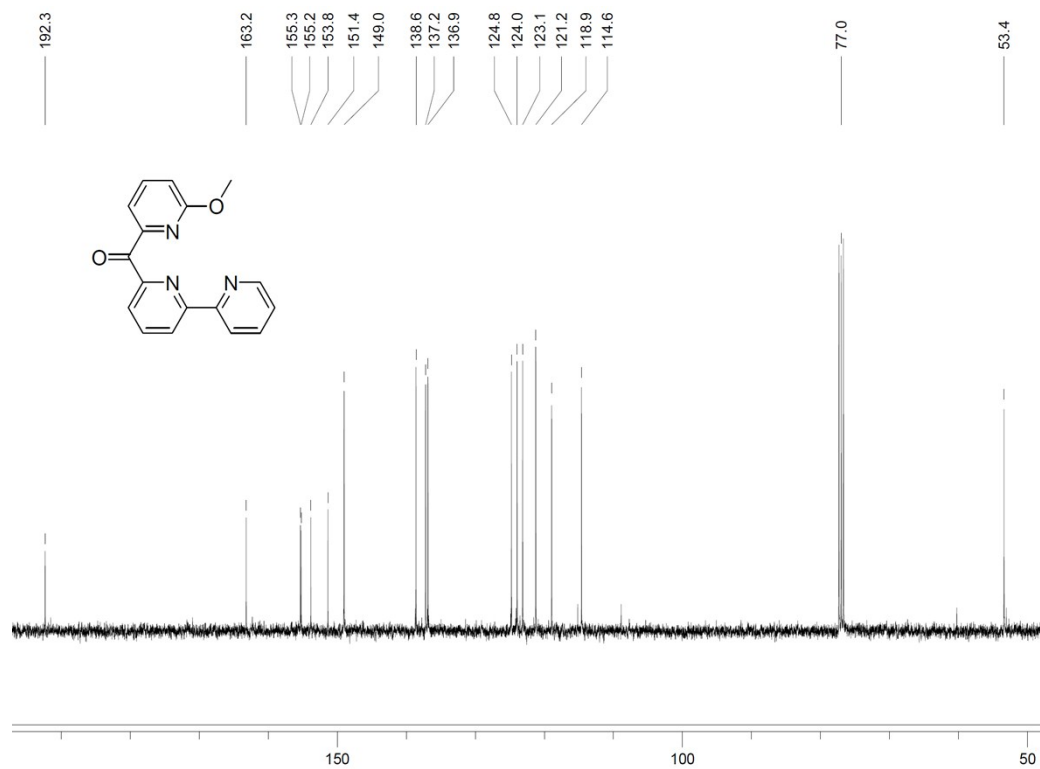


Figure S13. <sup>13</sup>C NMR spectrum of **B** in CDCl<sub>3</sub>

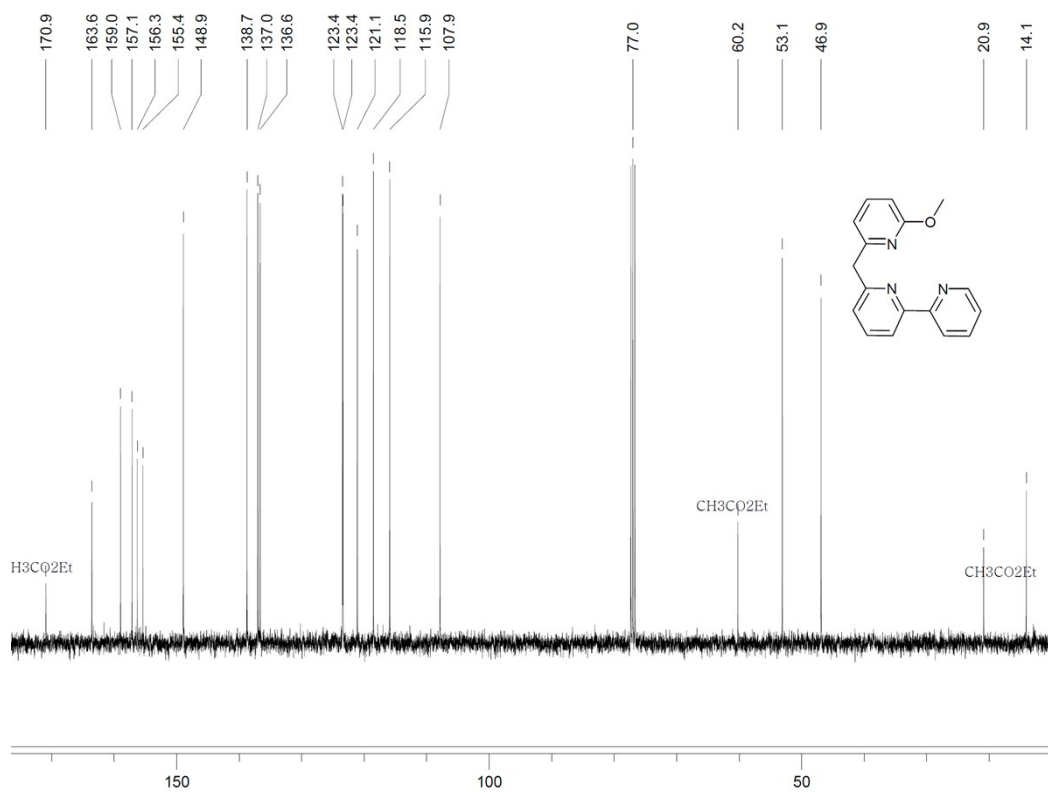


Figure S14. <sup>13</sup>C NMR spectrum of **1** in CDCl<sub>3</sub>

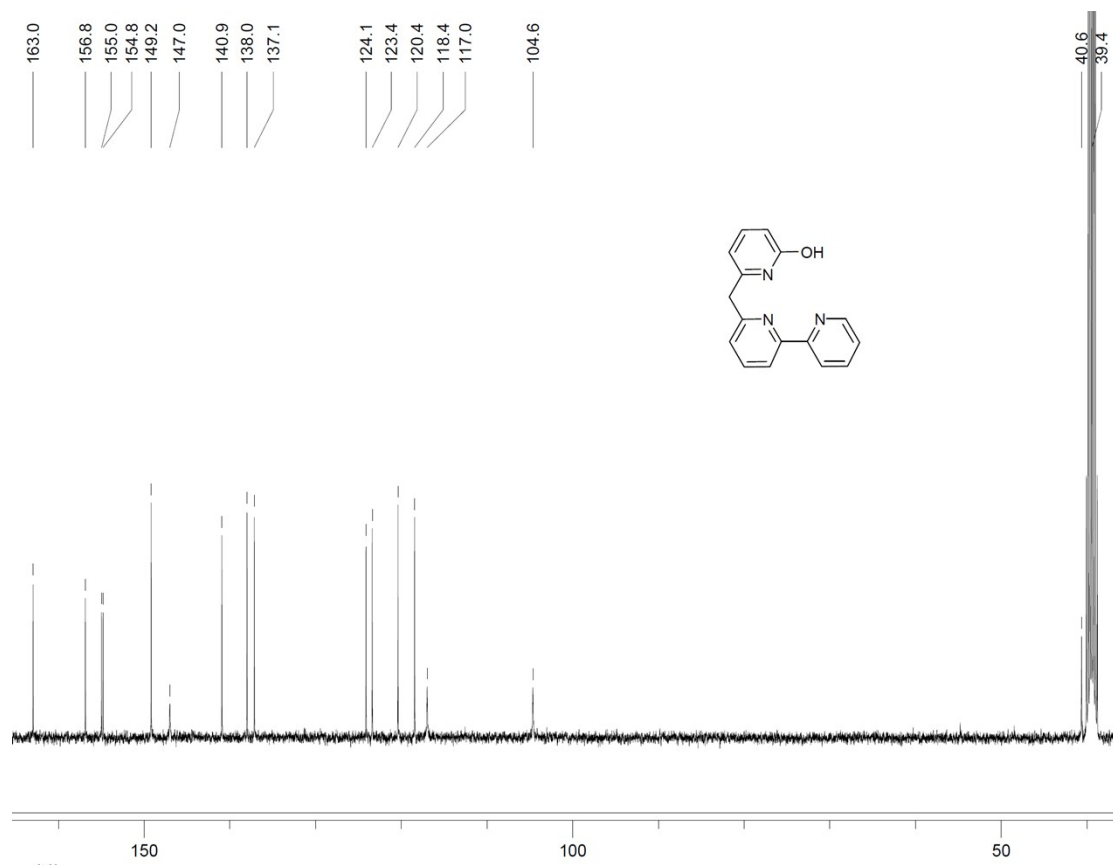


Figure S15.  $^{13}\text{C}$  NMR spectrum of **2** in DMSO