

Supporting Information

Synthesis, Characterization, Absorption Properties, and Electronic Structures of  
Paddlewheel-Type Dirhodium(II) Tetra- $\mu$ -(*n*-naphthoate) Complexes: An  
Experimental and Theoretical Study

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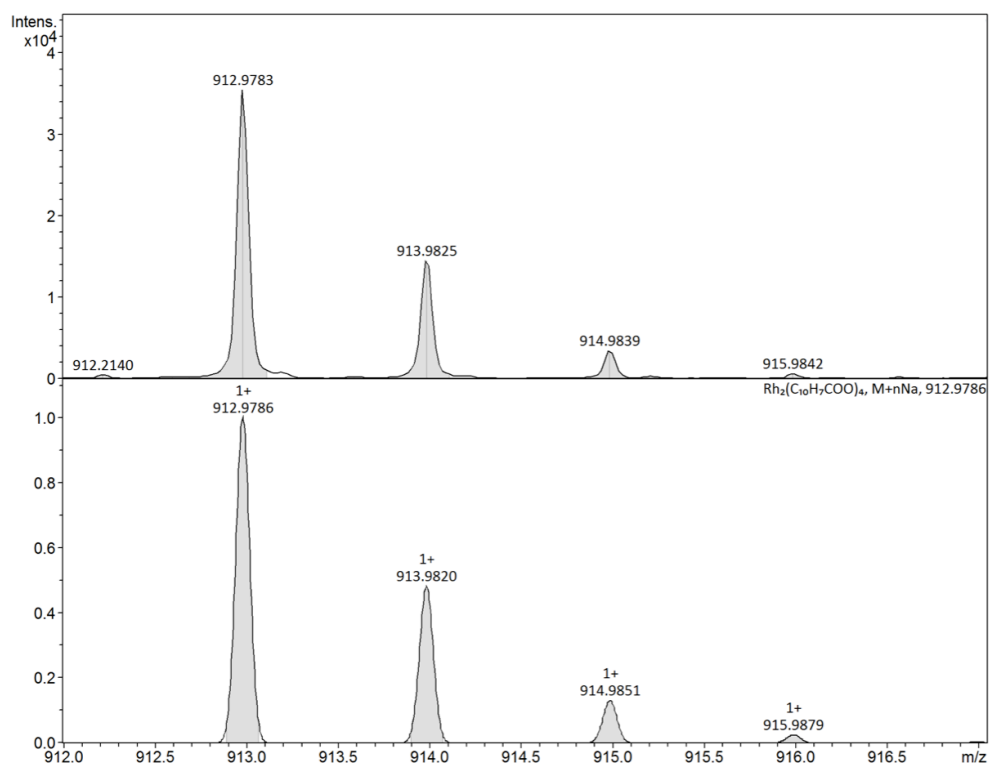


Figure S1. ESI-MS of  $[1(\text{OCMe}_2)_2]$ .

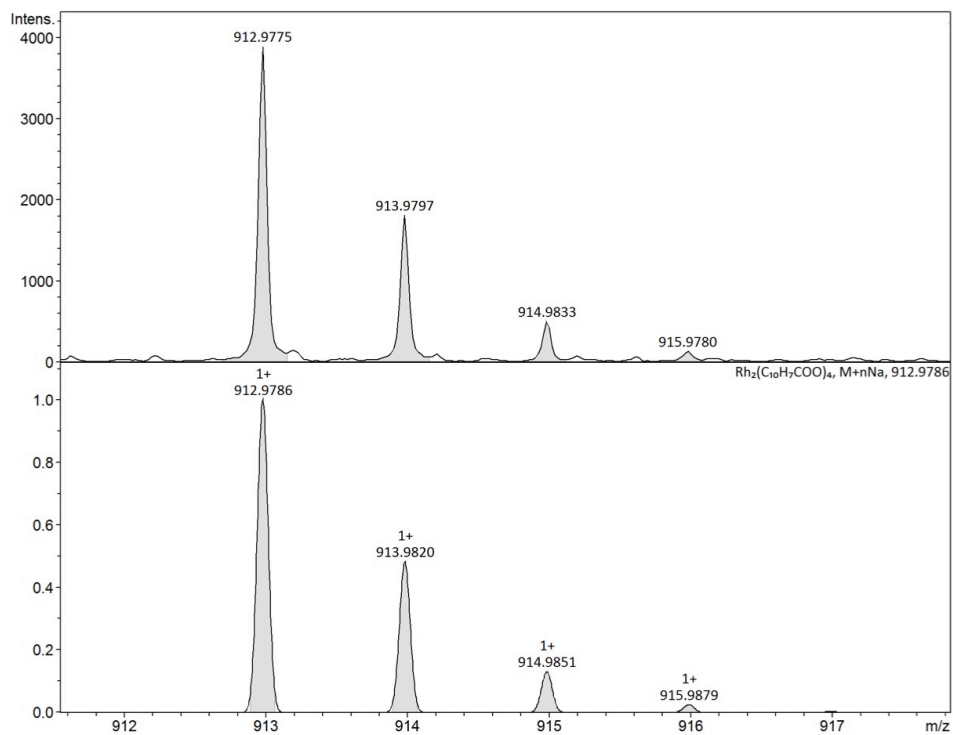


Figure S2. ESI-MS of  $[2(\text{OCMe}_2)_2]$ .

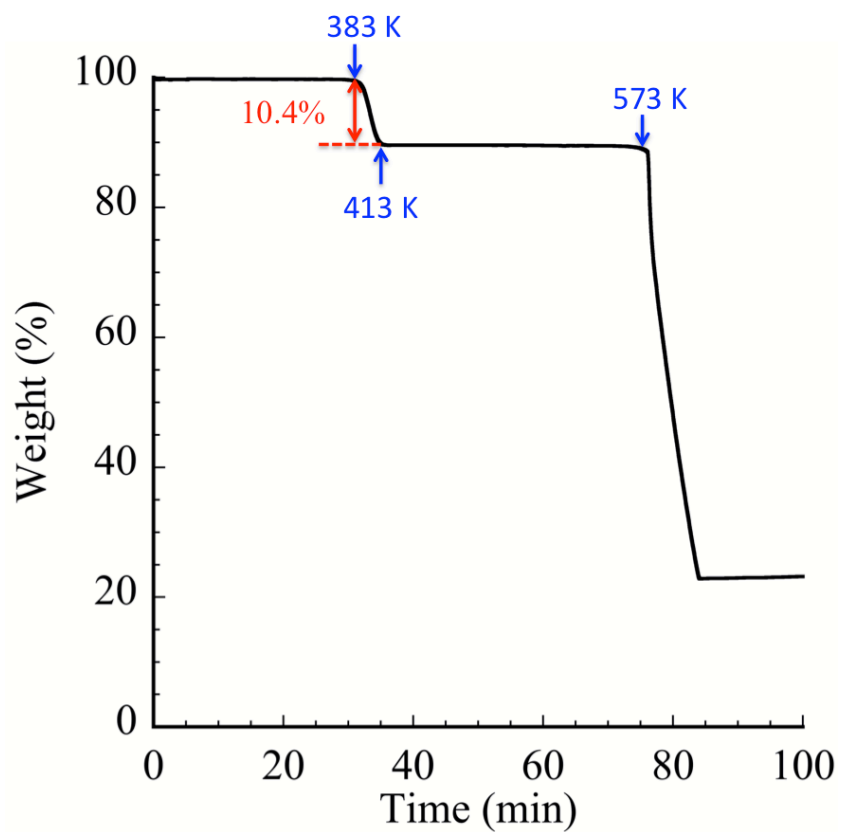


Figure S3. TG curve of [1(OCMe<sub>2</sub>)<sub>2</sub>].

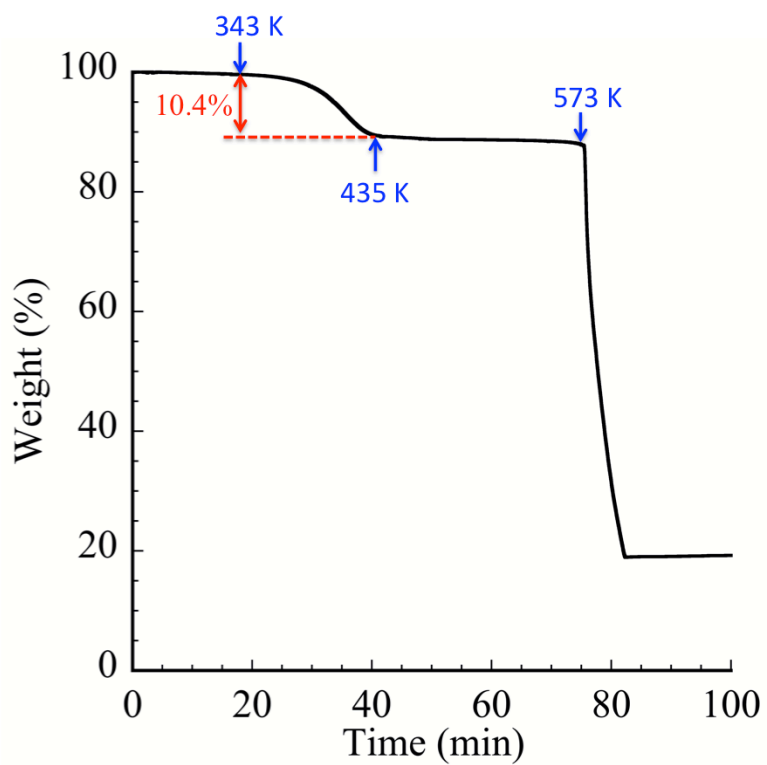


Figure S4. TG curve of [2(OCMe<sub>2</sub>)<sub>2</sub>].

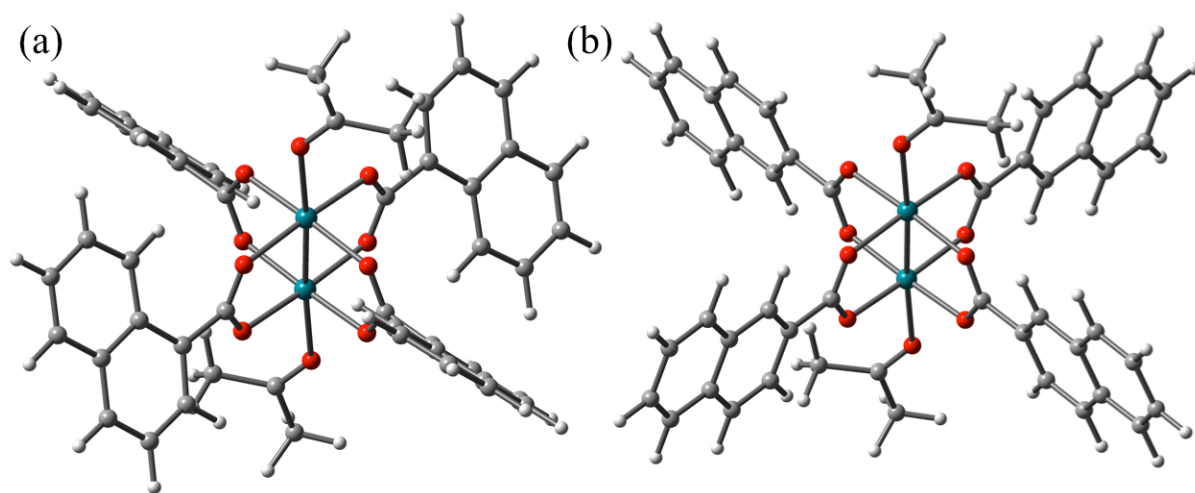


Figure S5. Optimized geometries of (a)  $[1(\text{OCMe}_2)_2]$  and (b)  $[2(\text{OCMe}_2)_2]$ .

Table S1. Calculated excitation wavelengths, oscillator strengths, and excitation characters for **[1(OCMe<sub>2</sub>)<sub>2</sub>]**. (Here, H and L are HOMO and LUMO, respectively).

State	Wavelength (nm)	Oscillator strengths ( <i>f</i> )	Major contribution
S <sub>1</sub>	584.1	0.0052	H → L (53%), H → L+4 (30%)
S <sub>2</sub>	580.3	0.0046	H-1 → L (52%), H-1 → L+4 (29%)
S <sub>5</sub>	461.1	0.0016	H-2 → L+6 (56%), H-12 → L+5 (16%)
S <sub>6</sub>	442.4	0.0032	H → L+5 (51%), H → L+1 (34%)
S <sub>7</sub>	439.9	0.0032	H-1 → L+5 (51%), H-1 → L+1 (32%)

Table S2. Calculated excitation wavelengths, oscillator strengths, and excitation characters for **[2(OCMe<sub>2</sub>)<sub>2</sub>]**. (Here, H and L are HOMO and LUMO, respectively).

State	Wavelength (nm)	Oscillator strengths ( <i>f</i> )	Major contribution
S <sub>1</sub>	580.7	0.0059	H → L+2 (84%)
S <sub>2</sub>	576.5	0.0055	H-1 → L+2 (83%)
S <sub>6</sub>	433.1	0.0041	H → L+5 (84%)
S <sub>7</sub>	430.2	0.0041	H-1 → L+5 (85%)