

Supplementary Material

(OC-6-35-A)-Aquadicarbonylchlorido[2-(2-pyridyl)-1,8-naphthyridine- κ^2N^1,N^2]ruthenium(II) hexafluoridophosphate 2,2'-bipyridine

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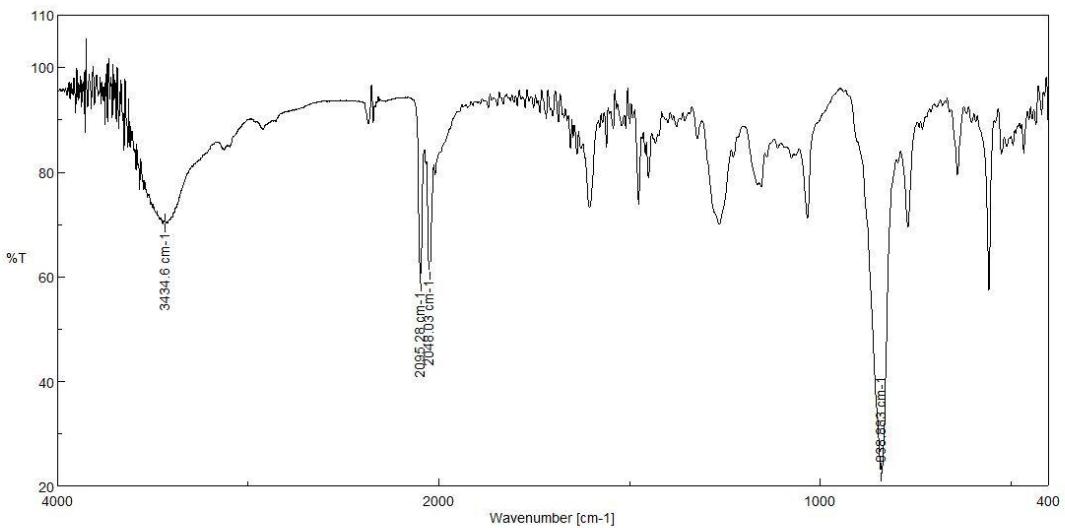


Figure S1. IR spectrum of the title compound (KBr pellet).

Table S1. Comparison between the experimental and DFT-calculated IR peaks for vCO.

	$\nu_s(\text{C}\equiv\text{O})/\text{cm}^{-1}$	$\nu_{as}(\text{C}\equiv\text{O})/\text{cm}^{-1}$
<i>Expt. data (KBr)</i>	2095	2048
<i>Calcd. data (vacuum)*</i>		
(a)	2177	2134
(b)	2173	2126
(c)	2176	2135
(d)	2169	2122
(e)	2173	2129
H-bonded complex**	2167	2125

*(a) to (e) correspond to the configurations in Figure 2.

**This is the cation-bpy complex, which is shown in Figure 5.