Supporting Information

[NO] and [NN]-Coordination Modes Rhodium Complexes Based on Flexible Ligand: Synthesis, Reactivity and Catalytic Activity

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$^1$H NMR spectrum of $L$

$^{13}$C NMR spectrum of $L$
$^1$H NMR spectrum of 1

$^1$H NMR spectrum of 2
$^{13}$C NMR spectrum of 2

TGA curves of complex 1 and 2
HRMS of complex 1 $[\text{M–BF}_4]^+$ peak was found.

HRMS of complex 2 $[\text{M+H}]^+$ peak was found.