G. Albertin *et al.*, Preparation and Reactivity of Half-Sandwich Organic Azide Complexes of Osmium

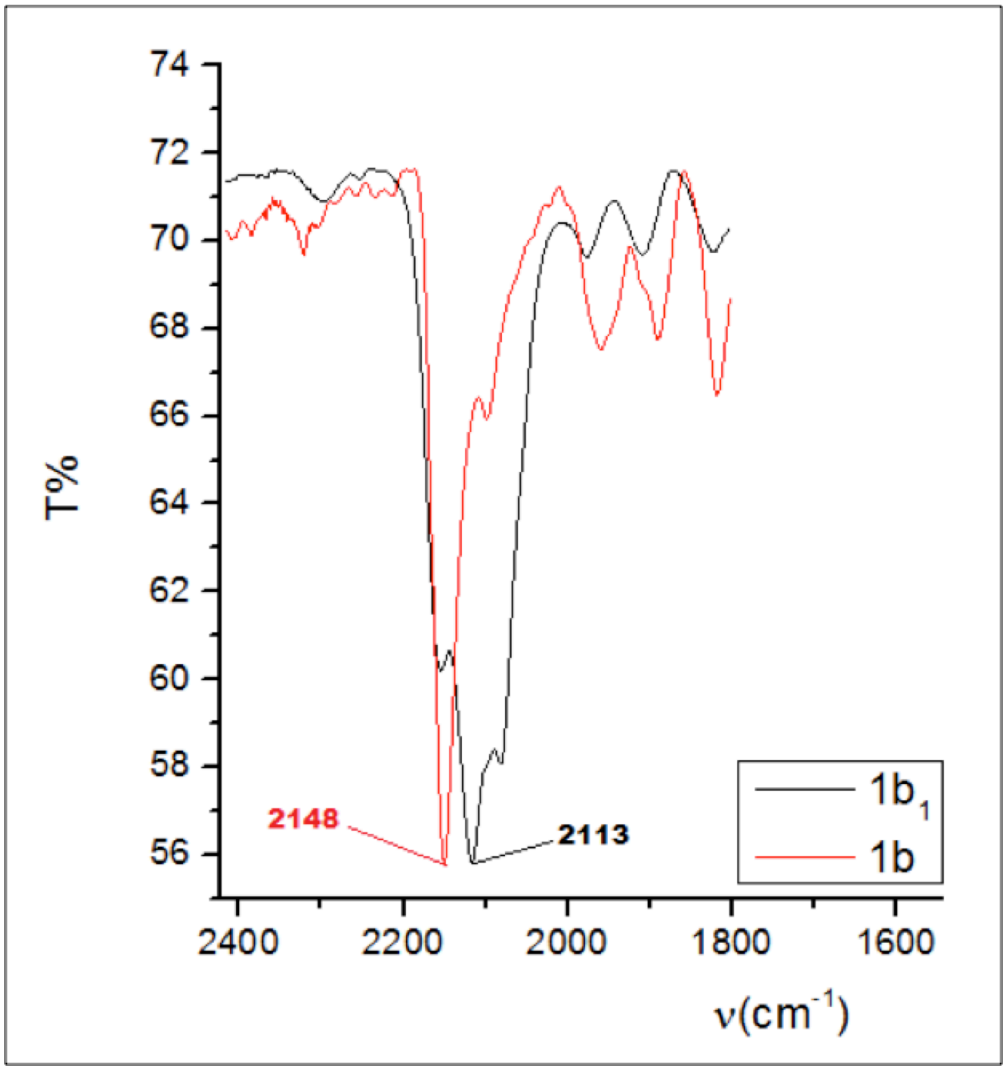

Figure S1. IR spectra of in KBr the labelled $[Os(\eta^5\text{-}C_5H_5)(\kappa^1\text{-}^{15}N_3CH_2C_6H_4\text{-}4\text{-}CH_3)(PPh_3)\text{-}\{P(OMe)_3\}]BPh_4$ (**1b$_1$**) and unlabelled compound $[Os(\eta^5\text{-}C_5H_5)(\kappa^1\text{-}N_3CH_2C_6H_4\text{-}4\text{-}CH_3)(PPh_3)\text{-}\{P(OMe)_3\}]BPh_4$ (**1b**).

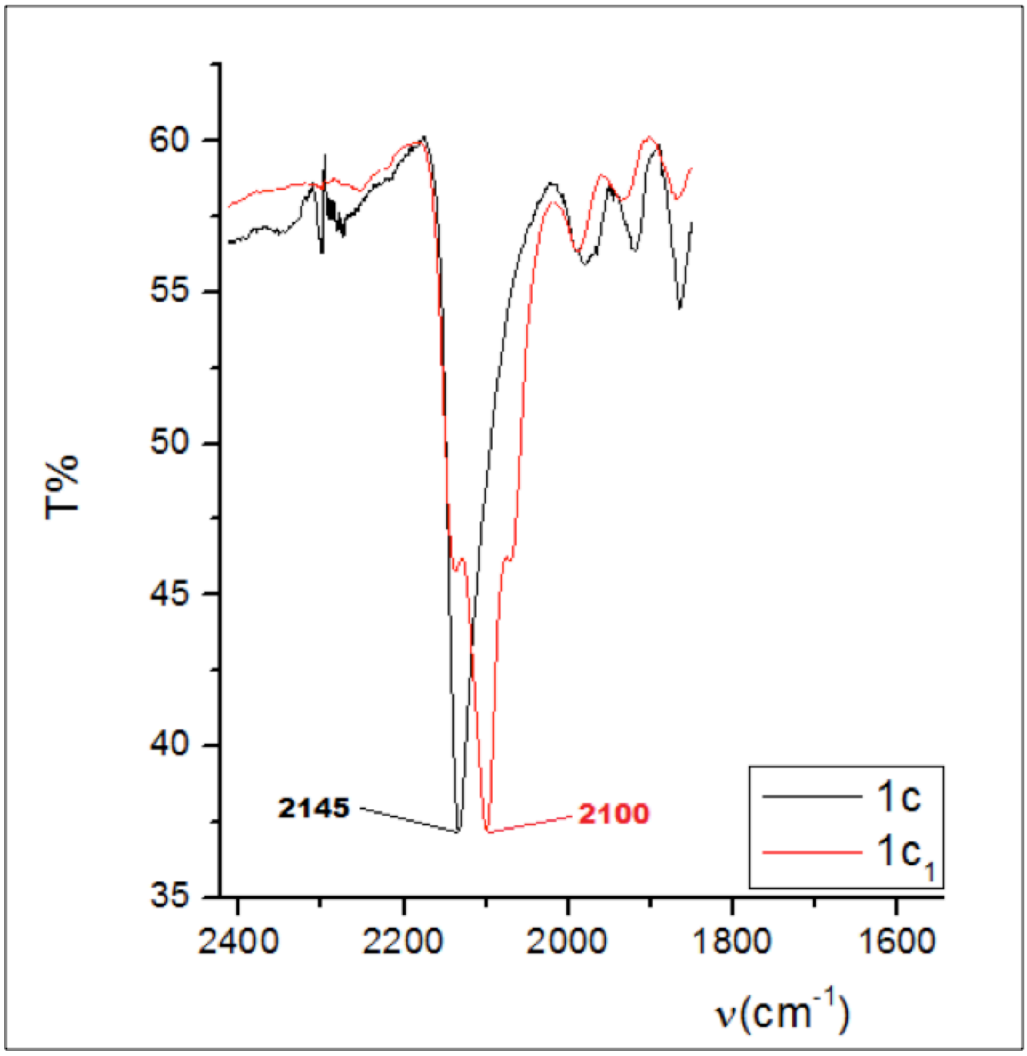

Figure S2. IR spectra of in KBr the labelled $[Os(\eta^5\text{-}C_5H_5)\{\kappa^1\text{-}^{15}N_3C(H)(CH_3)C_6H_5\}(PPh_3)\{P(OMe)_3\}]BPh_4$ (**1c$_1$**) and unlabelled compound $[Os(\eta^5\text{-}C_5H_5)\{\kappa^1\text{-}N_3C(H)(CH_3)C_6H_5\}(PPh_3)\{P(OMe)_3\}]BPh_4$ (**1c**).

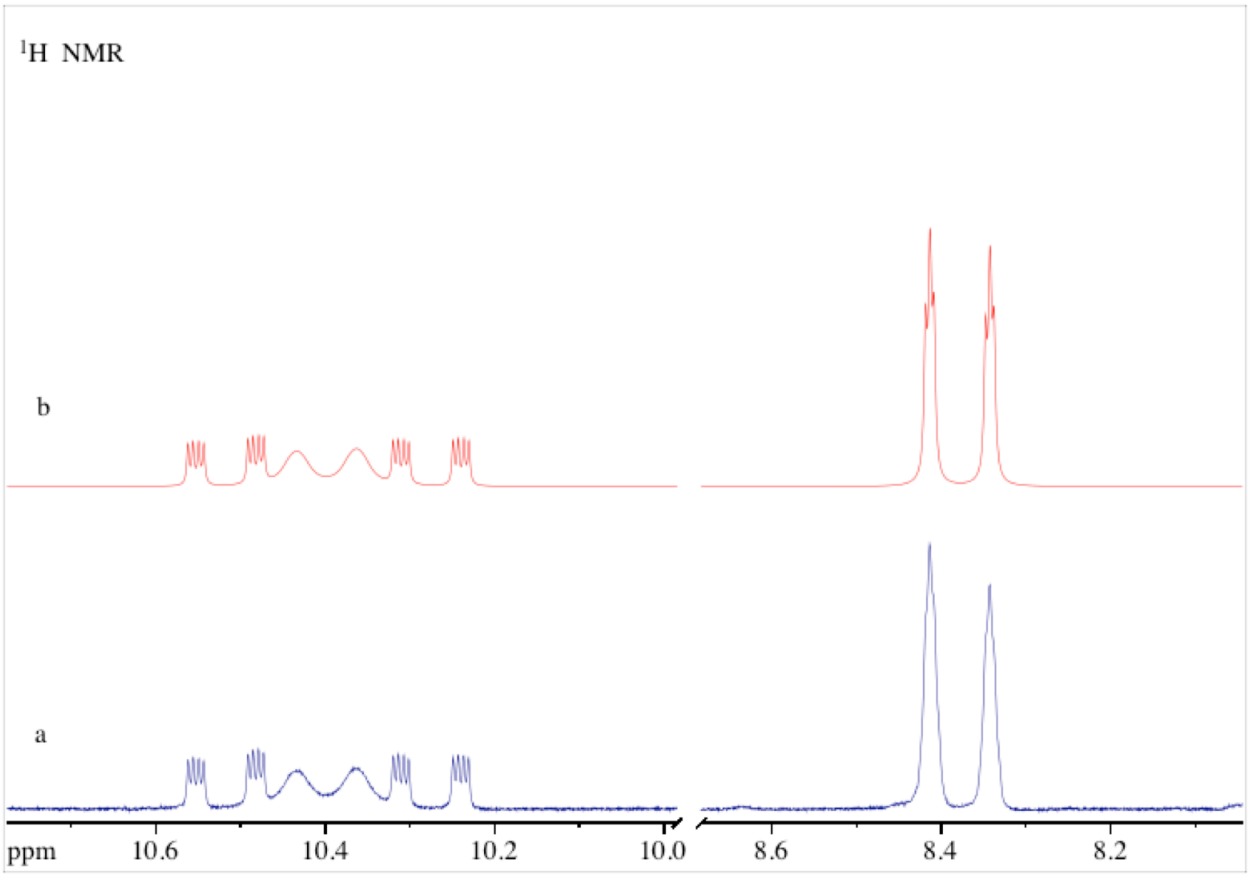

Figure S3. ^{1}H NMR spectra of complex [Os(η^5-C_5H_5){κ^1-^{15}NH=C(CH_3)C_6H_4-4-CH_3}(PPh_3)-{$P(OMe)_3$}]BPh_4 (**3b$_1$**) in CD_2Cl_2 at 295 K. Lower, experimental; upper, simulated (see parameters in Experimental section).

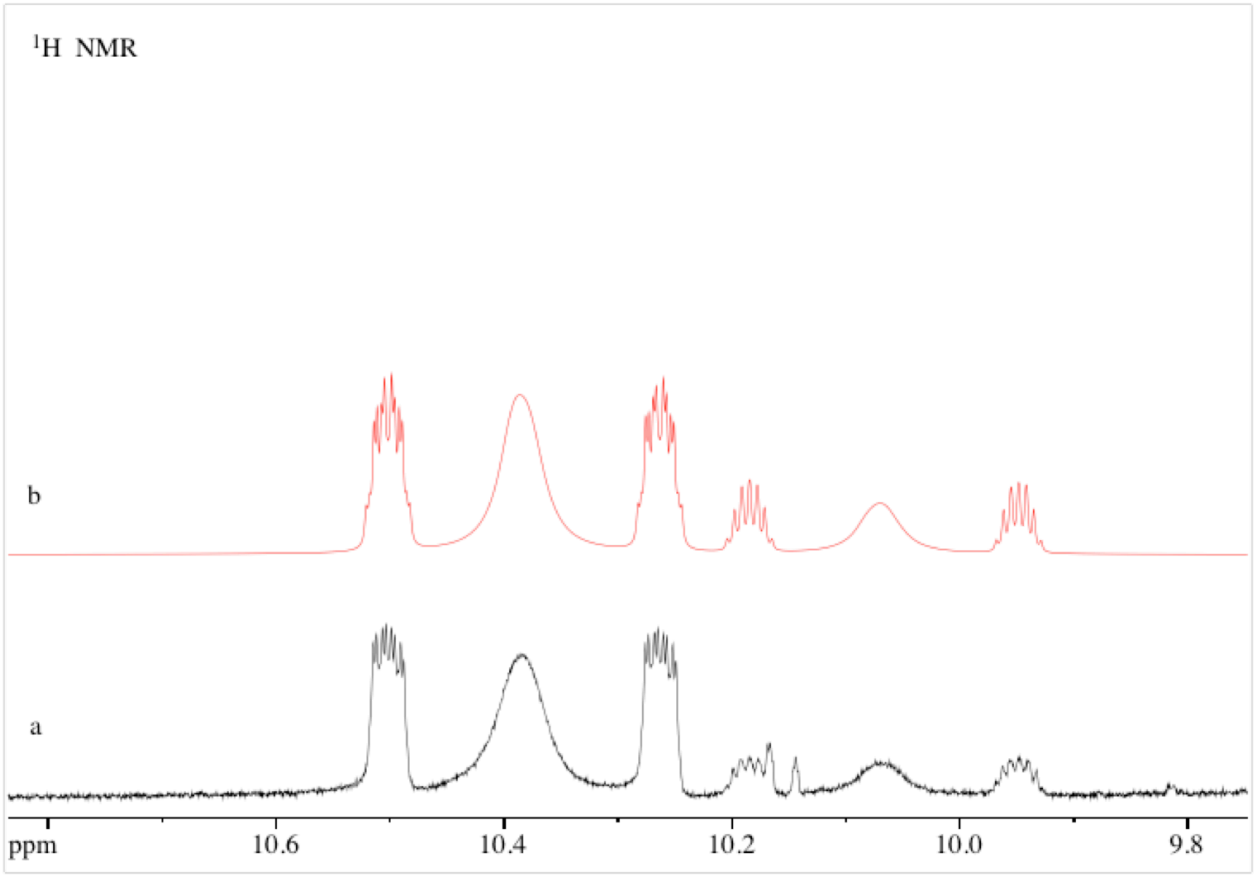

Figure S4. ^{1}H NMR spectra of complex [Os(η^5-C_5H_5){κ^1-^{15}NH=C(CH_3)C_6H_5}(PPh_3)-{$P(OEt)_3$}]BPh_4 (**4c$_1$**) in CD_2Cl_2 at 295 K. Lower, experimental; upper, simulated (see parameters in Experimental section).

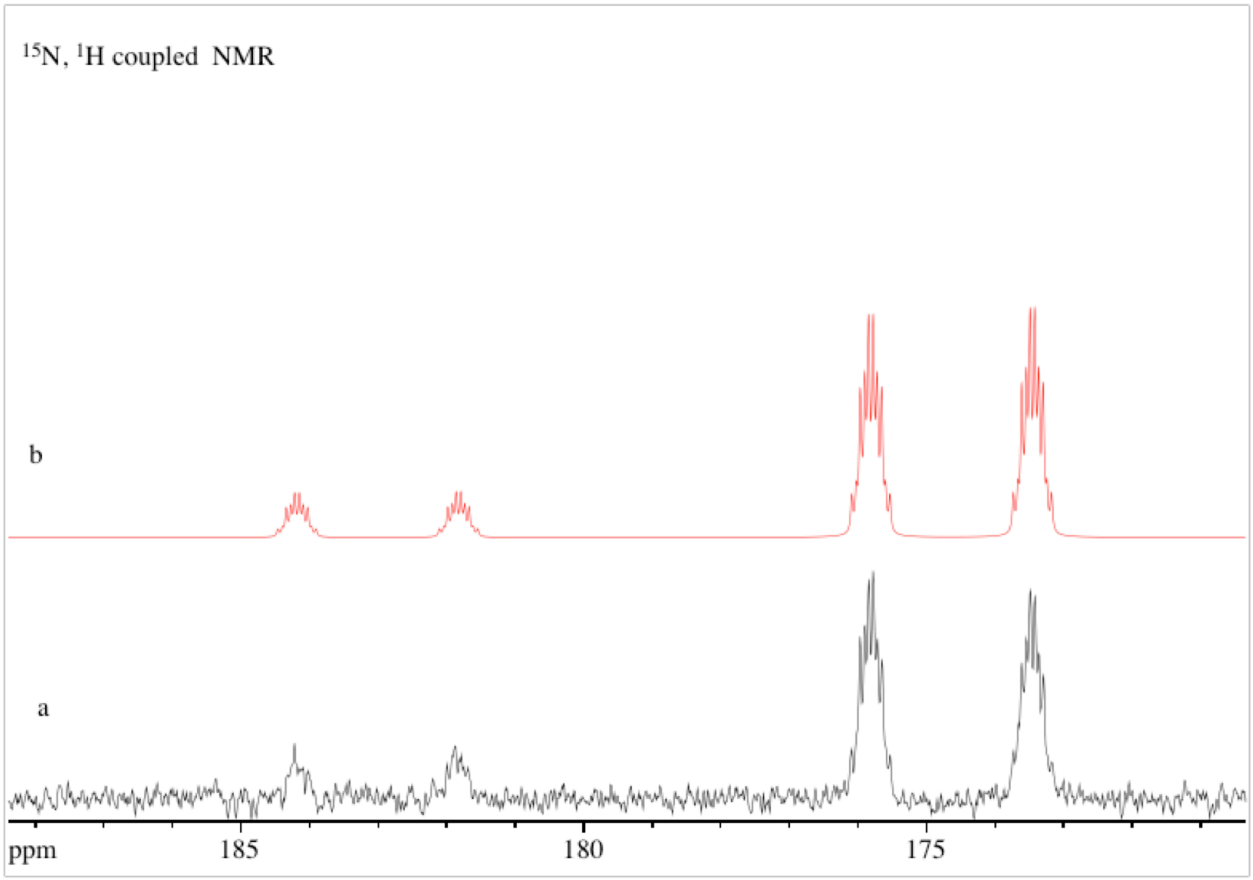

Figure S5. Proton-coupled ^{15}N NMR spectra of complex $[Os(\eta^5\text{-}C_5H_5)\{\kappa^1\text{-}^{15}NH{=}C(CH_3)C_6H_5\}(PPh_3)\{P(OEt)_3\}]BPh_4$ (**4c$_1$**) in CD_2Cl_2. Lower, experimental; upper, simulated (see parameters in Experimental section).