Inorganic Chemistry
including bioinorganic chemistry

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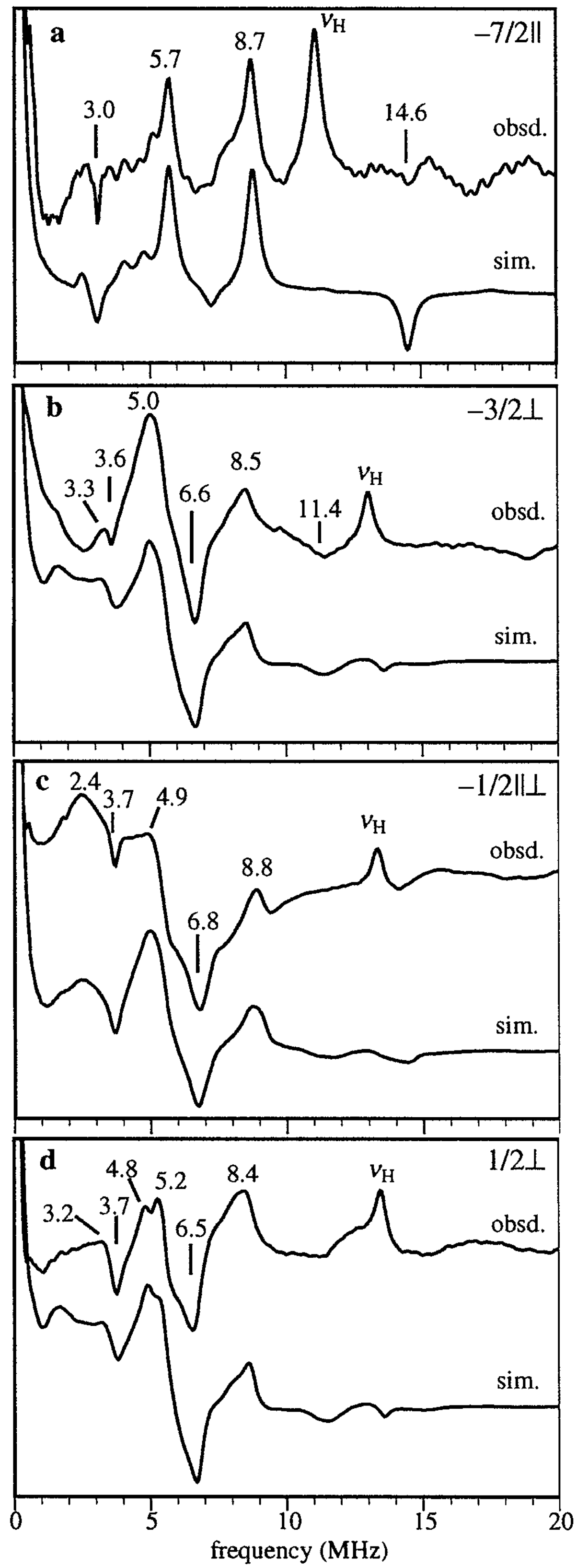

Figure S1. Two-pulse ESEEM spectra and their simulations of 2mM VO(Himac)$_2$ in H_2O/ethylene glycol 2:1 v/v glass. Conditions: $\nu = 8.84$ GHz, $T = 77$ K; (a) $B = 260.5$ mT; (b) $B = 305.5$ mT; (c) $B = 313.0$ mT; (d) $B = 318.5$ mT. The peaks with ν_H are due to matrix ^{1}H nuclei.

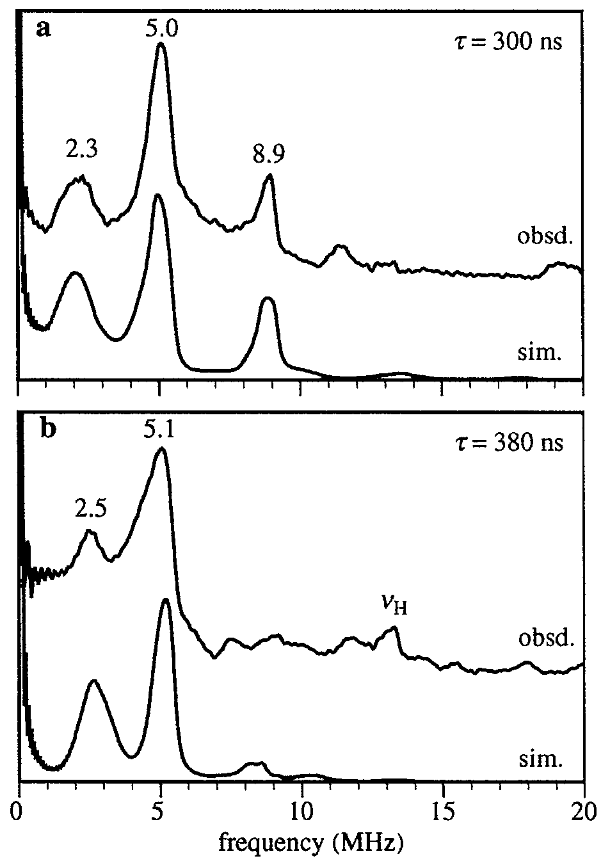

Figure S2. Three-pulse ESEEM spectra and their simulations of 2mM $VO(Himac)_2$ in H_2O/ ethylene glycol 2:1 v/v glass. The $-1/2\|\perp$ line was selected for measurements. Conditions: $\nu = 8.84$ GHz, $T = 77$ K, $B = 313.0$ mT; (a) $\tau = 300$ ns; (b) $\tau = 380$ ns. The peak with ν_H is due to matrix ^1H nuclei.

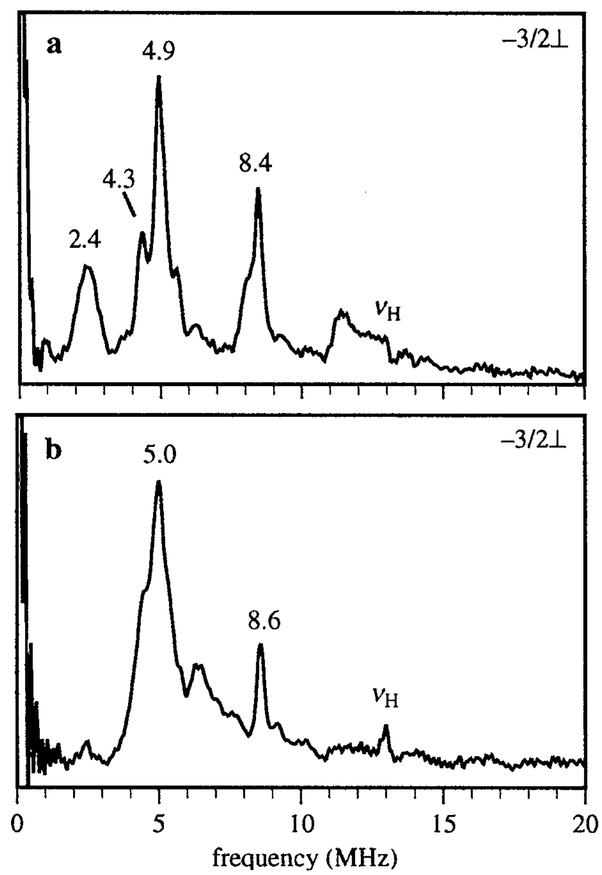

Figure S3. (a) Three-pulse ESEEM spectrum of 5mM VO(salhisH)(acac) in 1:1 v/v DMF:toluene glass. Conditions: $\nu = 8.83$ GHz, $T = 77$ K, $B = 305.6$ mT, $\tau = 310$ ns. (b) Spectrum after addition of one equiv. of aqueous HCl. Conditions: $\nu = 8.84$ GHz, $T = 77$ K, $B = 305.5$ mT, $\tau = 310$ ns. The peaks with ν_H are due to matrix ^{1}H nuclei.