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Fig. S-1

The observed and simulated ν_4 progressions of the 0-0 (a) and 3rd ν_4 spectra (b). The simulated band intensities are displayed as bars in the spectra, and the observed and simulated intensities are linked by guides. The simulated intensities are c_k^2 calculated with D = 0.2 and K = 0.1 in Eq. (2), where the D = 0.2 constant is larger than the best-fit one, D = 0.05. The horizontal broken lines indicate the I = 0 standard level for the simulated intensities.



Fig. S-2

The observed and simulated ν_4 progressions of the 0-0 (a) and 3rd ν_4 spectra (b). The simulated band intensities are displayed as bars in the spectra, and the observed and simulated intensities are linked by guides. The simulated intensities are c_k^2 calculated with D = 0.05 and K = 0.2 in Eq. (2), where the K = 0.2 constant is larger than the best-fit one, D = 0.5. The horizontal broken lines indicate the I = 0 standard level for the simulated intensities.