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Spectroscopic Studies of a Phosphonium Ionic Liquid in Supercritical CO_2

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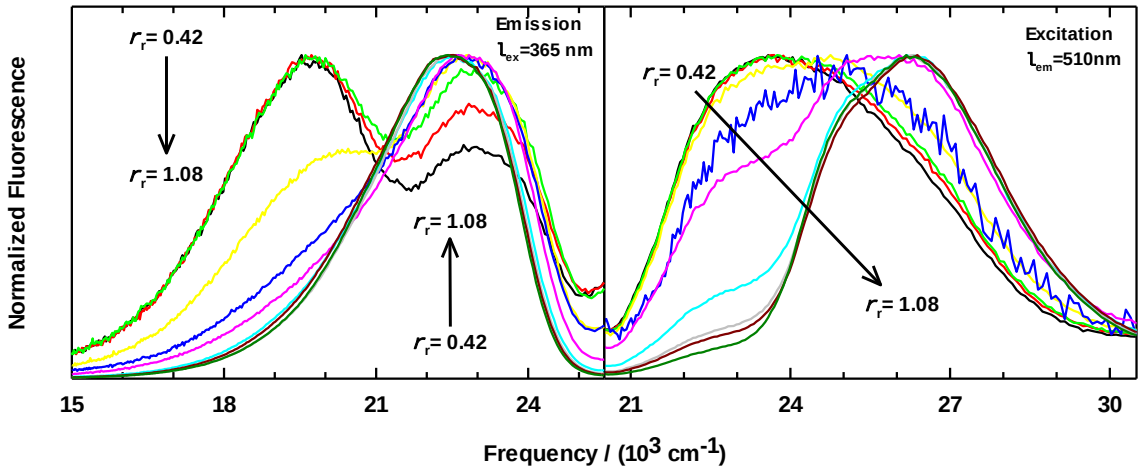

Figure S1. Steady-state excitation and emission spectra for C153 in $[P_{6,6,6,14}]^+$ Tf_2N^-/$scCO_2$ at 323 K. Left panel: emission spectra with excitation at ν_{ex} = 27,397 cm^{-1}. Right panel: excitation spectra measured with emission at 19608 cm^{-1}. Spectral normalization was calculated using the more intense feature in each spectrum.

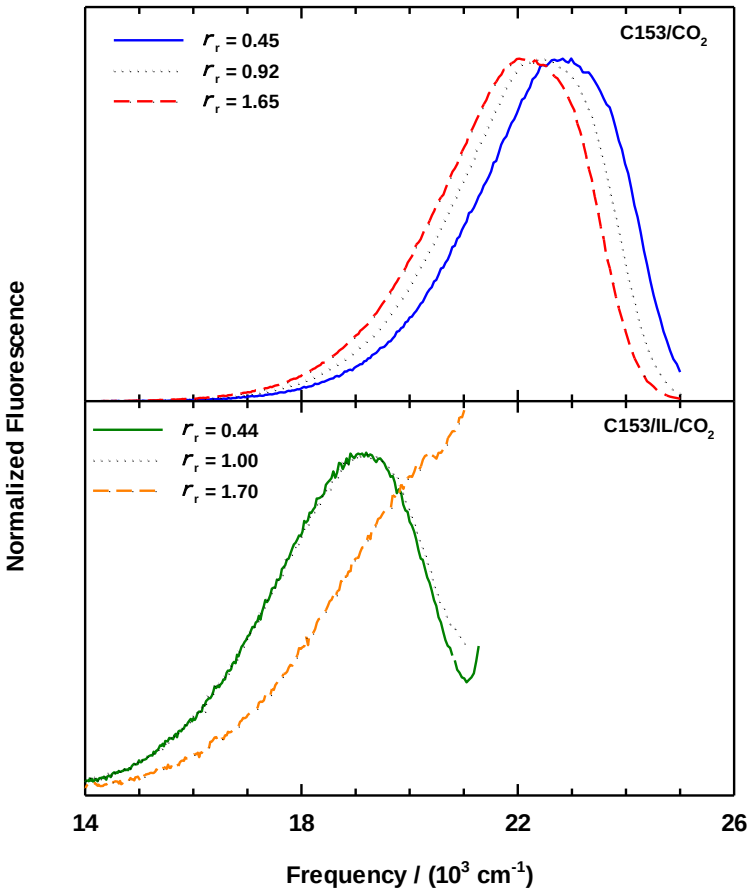

Figure S2. Normalized steady-state emission spectra for C153 in neat $scCO_2$ (top, from Figure 2 for comparison) and in $[P_{6,6,6,14}]^+$ $Tf_2N^-/scCO_2$ (bottom) measured at 323 K. Excitation for the IL spectra was at ν_{ex} = 22,222 cm^{-1}. These spectra show the clearly isolated, low energy emission when IL is present.