

Supplementary Material for:

Isonitrile Derivatized Indole as an Infrared Probe for Hydrogen-bonding Environments

Figure S1 The NC stretching frequencies of 5ICI *versus* solvent parameter α or β . Only frequencies obtained in protic solvents ($\alpha \neq 0$) were used.

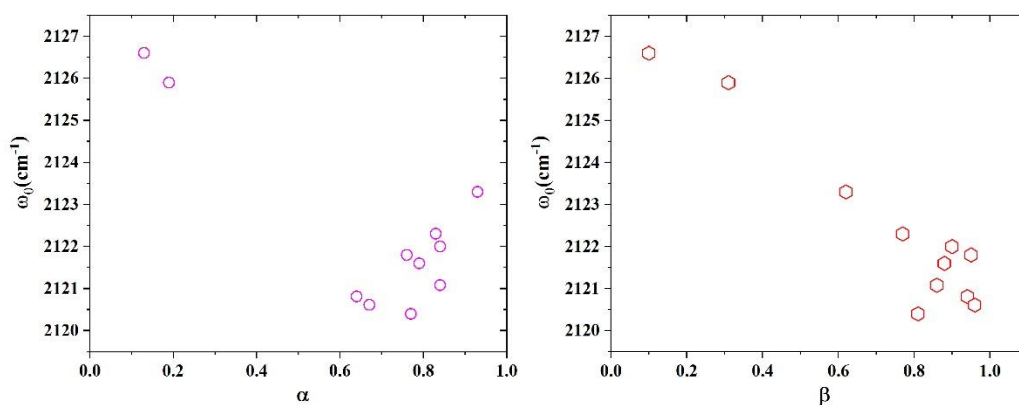


Figure S2 The NC stretching frequencies of 5ICI *versus* solvent parameter π^* or β . Only frequencies obtained in aprotic solvents ($\alpha = 0$) were used.

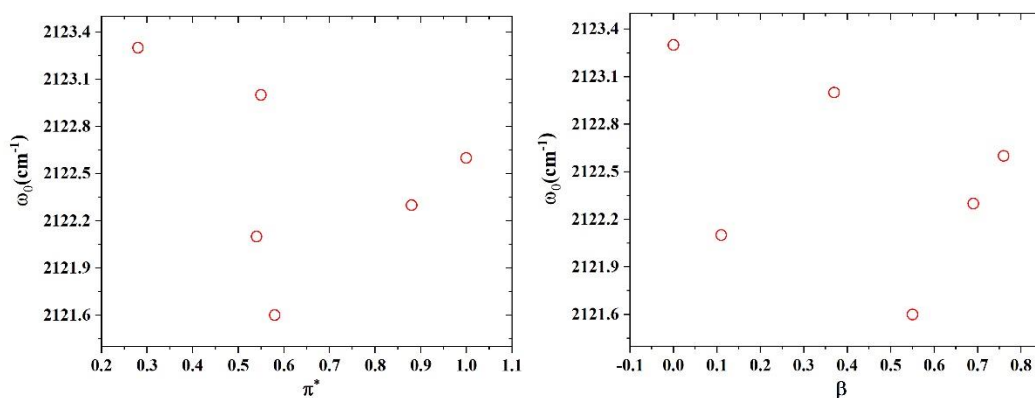


Figure S3 The NC stretching frequencies of 5ICI in various solvents *versus* Kamlet-Taft empirical parameter π^* , β , or α .

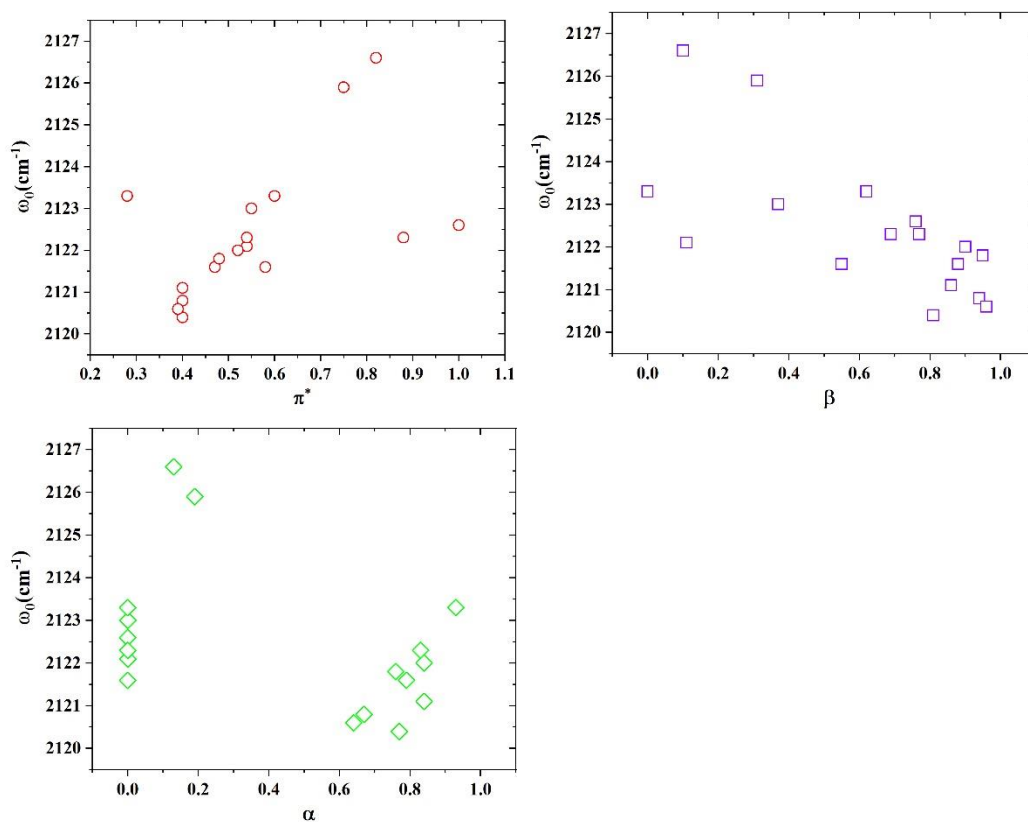


Figure S4 The NC stretching frequencies of NM5ICI *versus* the density of hydrogen-bond donor groups (mol/mL) in solvents ($R^2=0.99$).

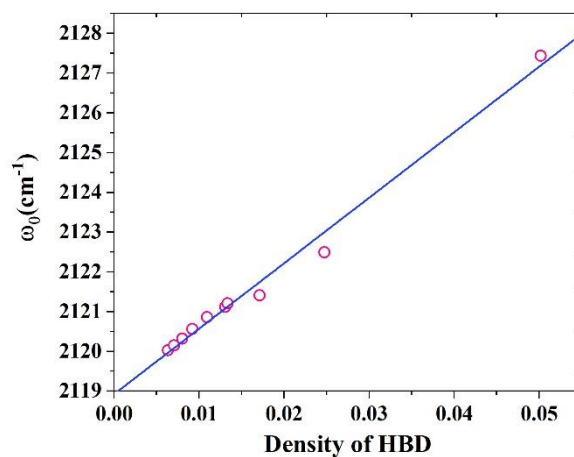


Figure S5 The NC stretching frequencies of H-bonded NC group *versus* Kamlet-Taft empirical parameter π^* , β , or α . Only frequencies obtained in protic solvents ($\alpha \neq 0$) were used.

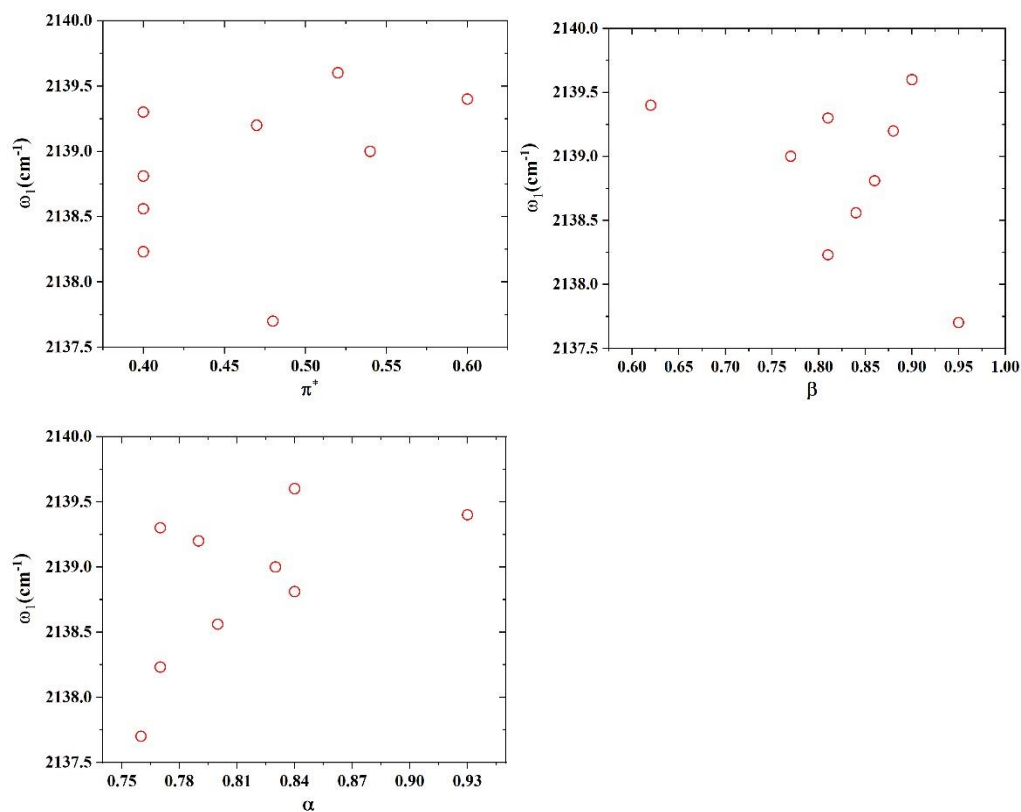


Figure S6 The NC stretching frequencies of H-bonded NC group *versus* the density of hydrogen bond donors of solvents.

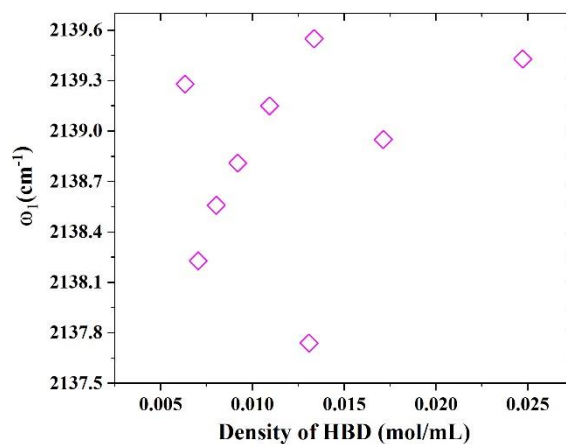


Figure S7. The NC stretching vibration of NM5ICI in selected solvents.

