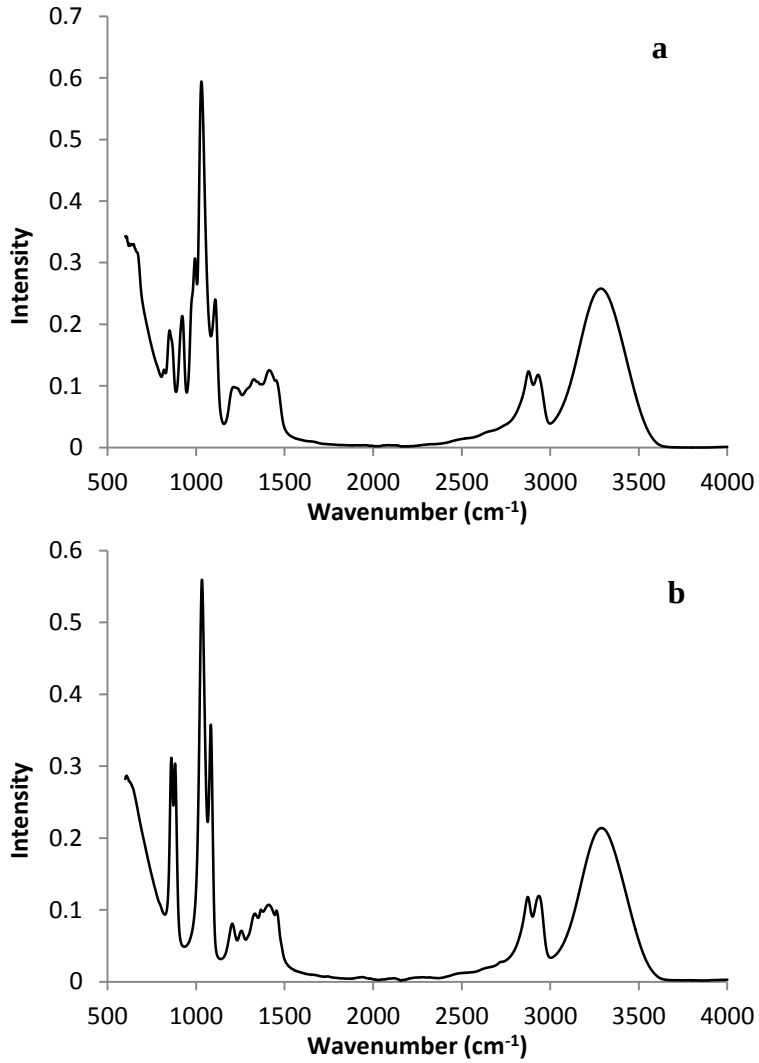
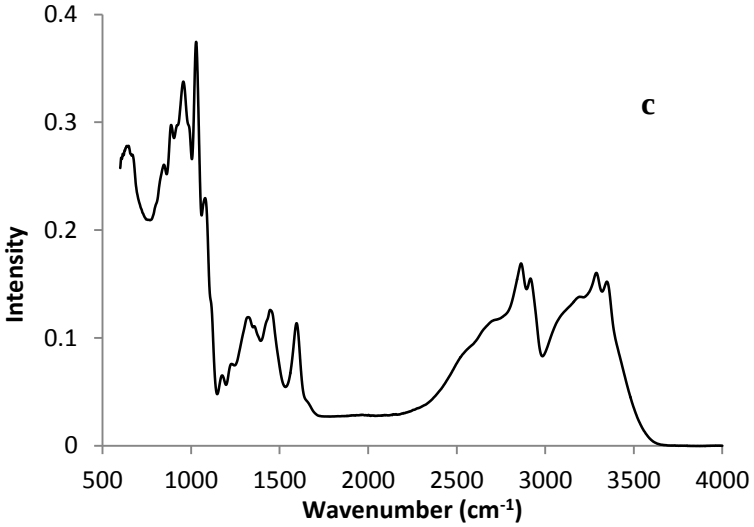
Electronic Supplementary Material (ESI) for Faraday Discussions

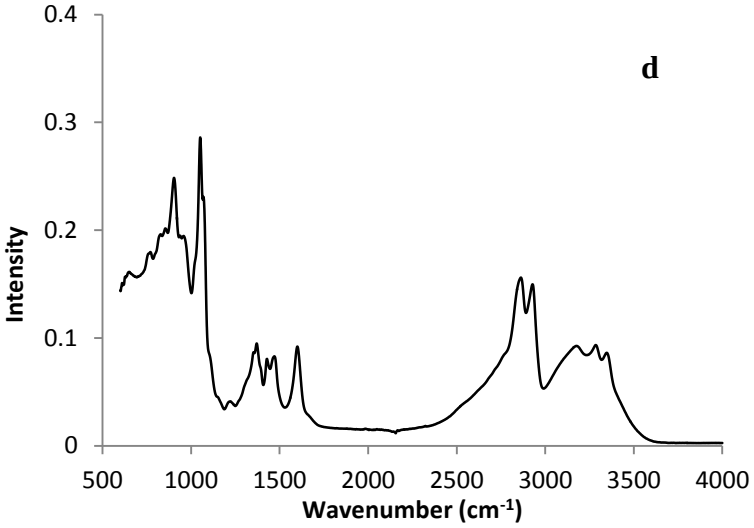
Linking molecular/ion structure, solvent mesostructure, the solvophobic effect and the ability of amphiphiles to self-assemble in non-aqueous liquids

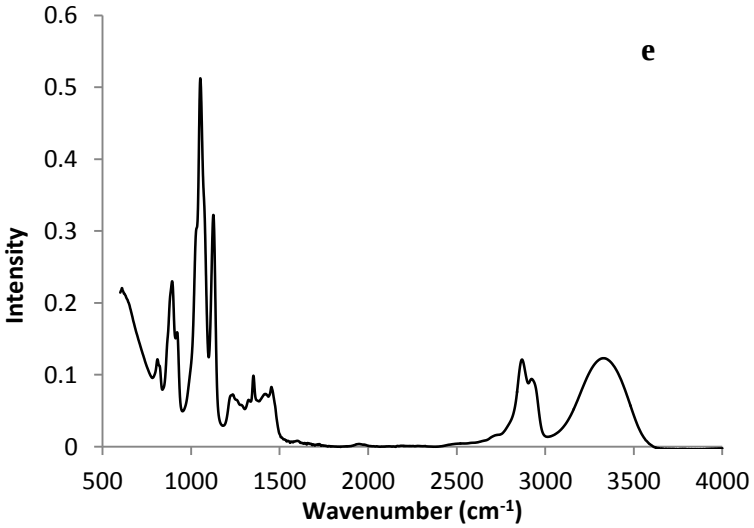
Emmy C. Wijaya,[1,2] Tamar L. Greaves[2] and Calum J. Drummond[2]

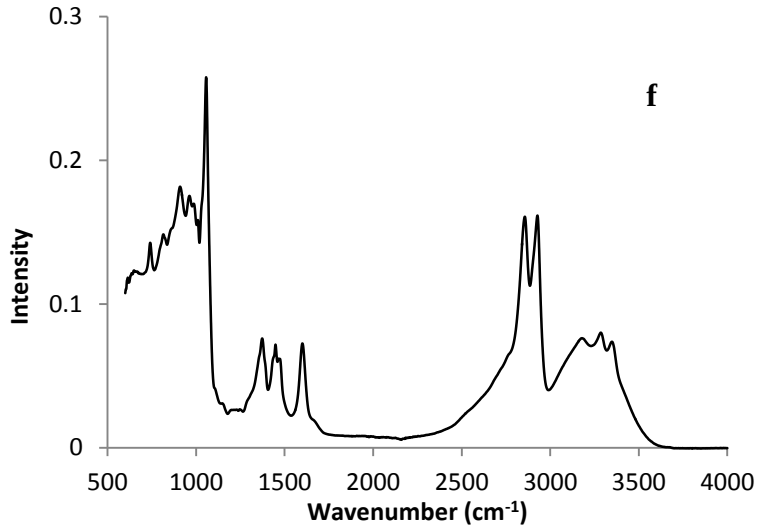
[1] *School of Chemistry, The University of Melbourne, Parkville VIC 3010, Australia*
[2] *CSIRO Materials Science and Engineering, Bag 10, Clayton VIC 3169, Australia*

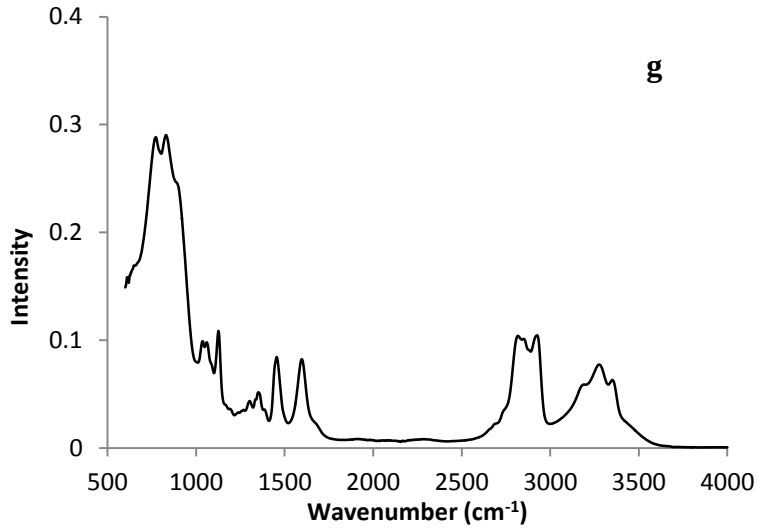


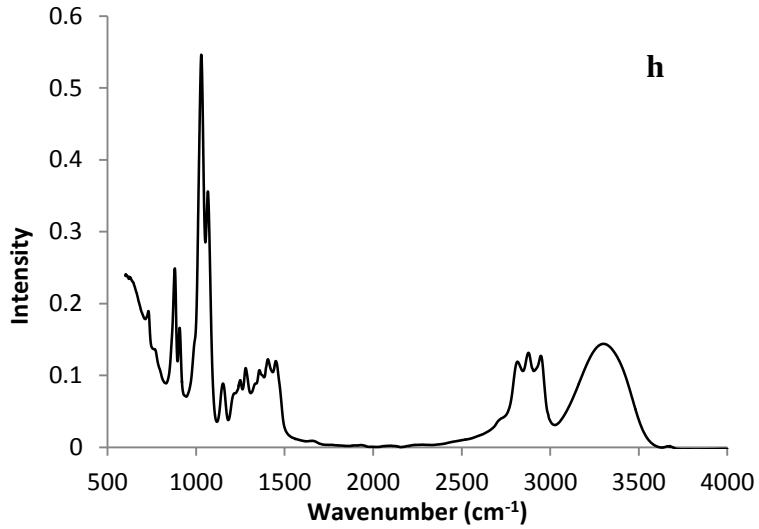


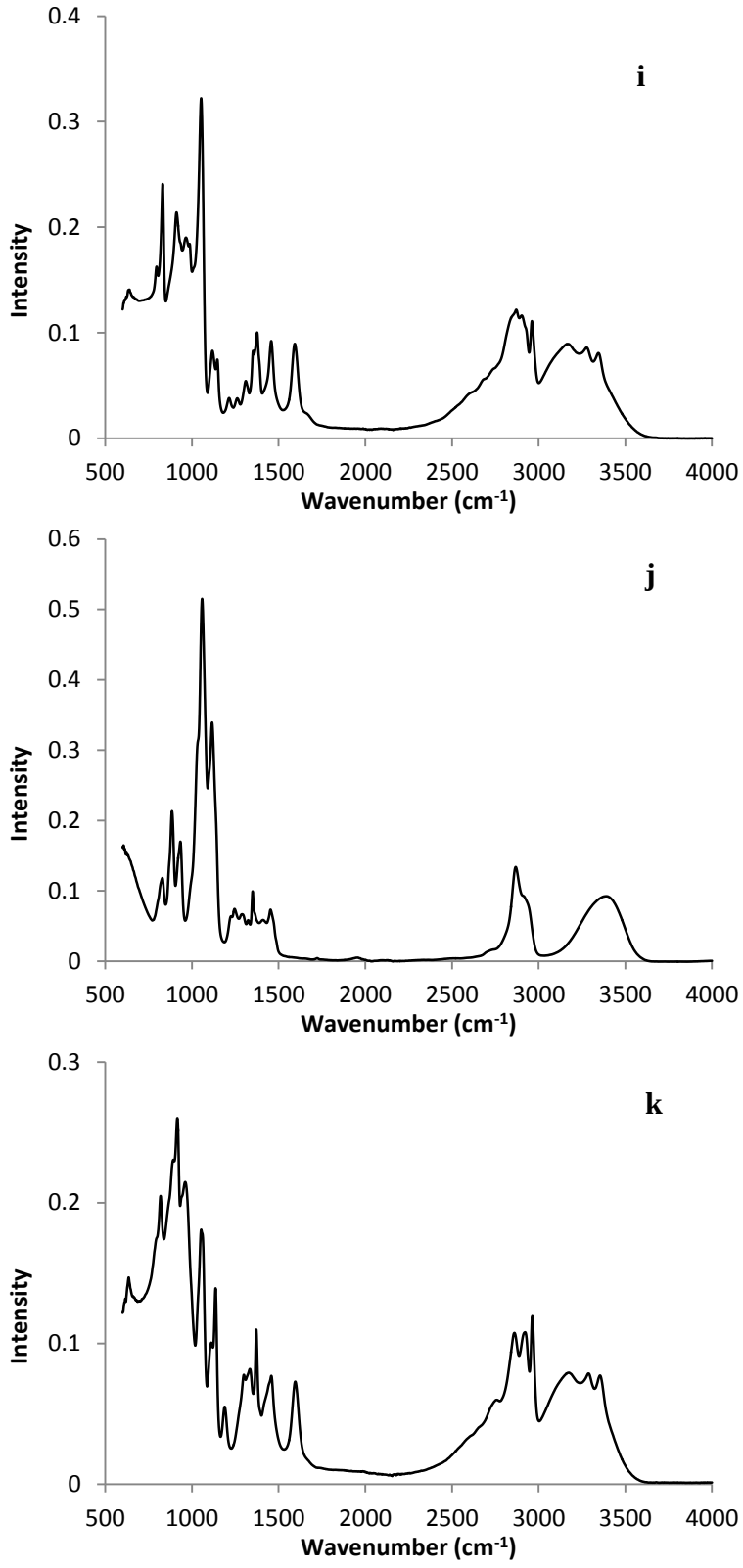


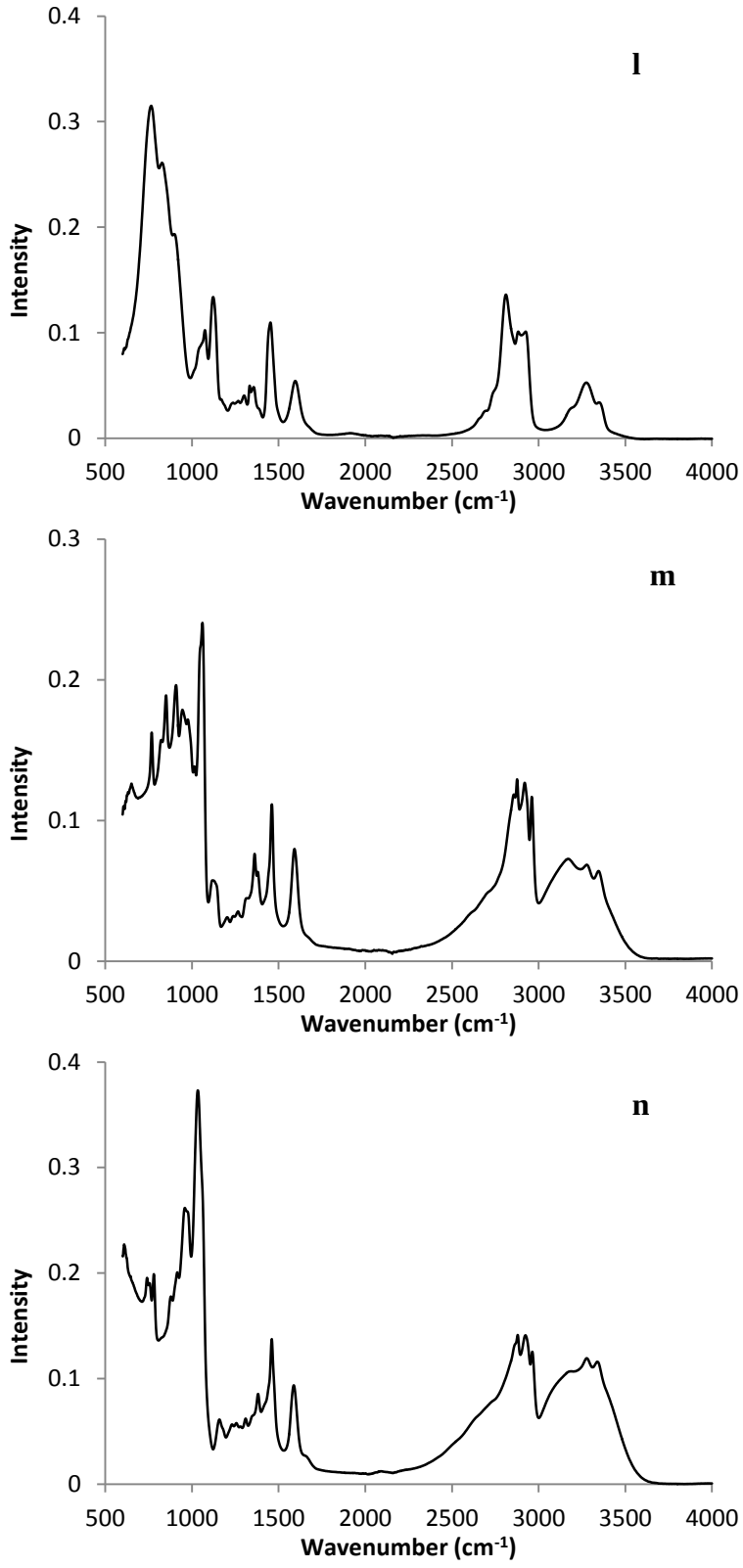


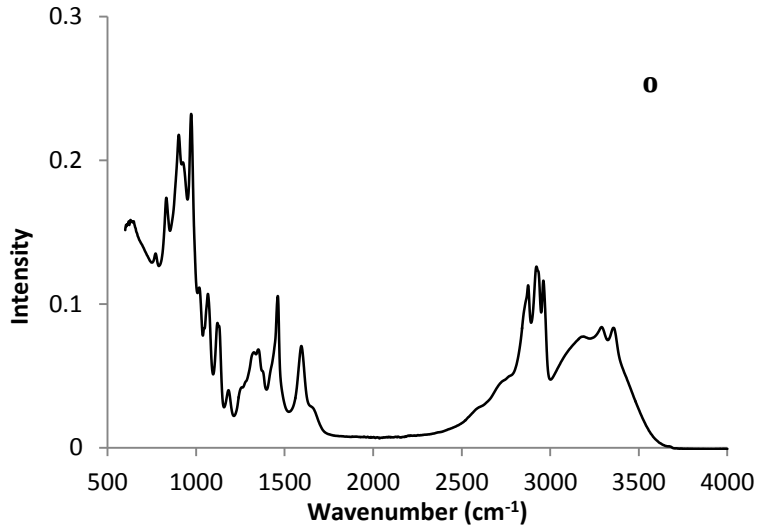


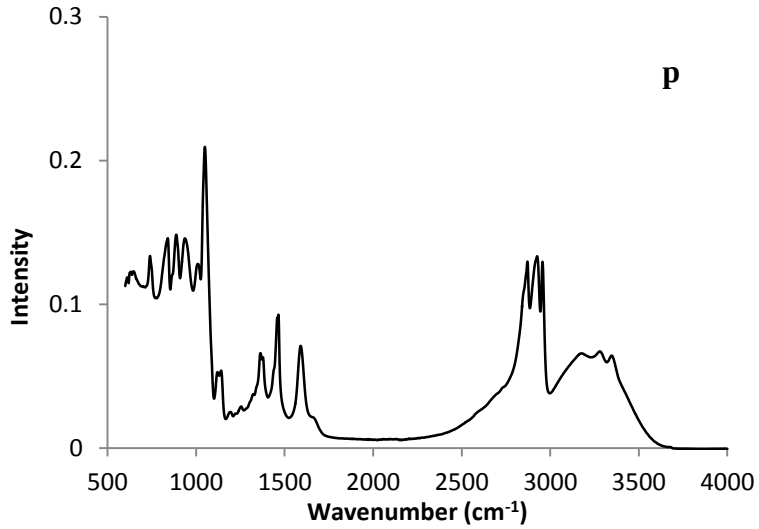


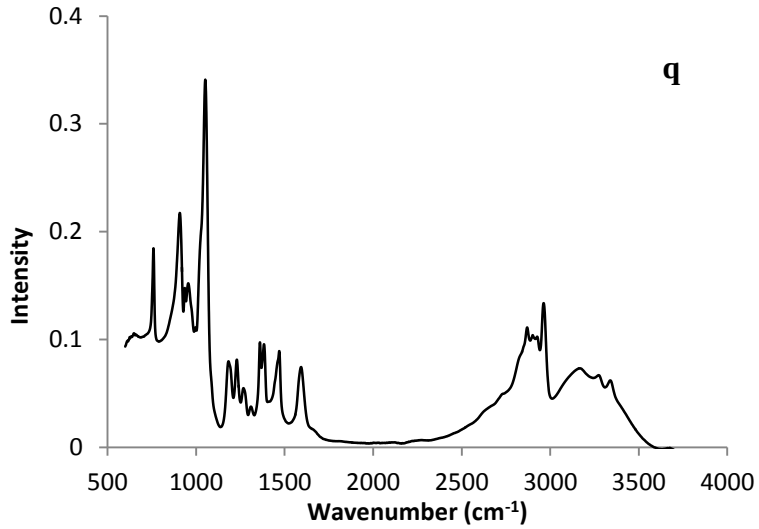












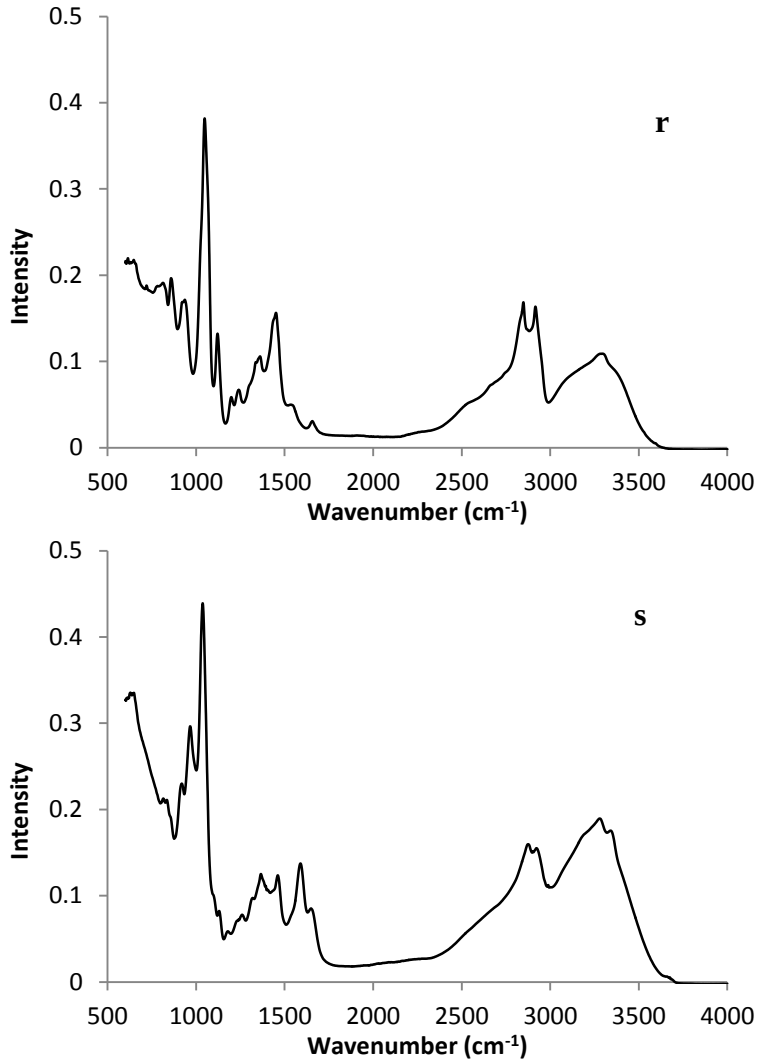
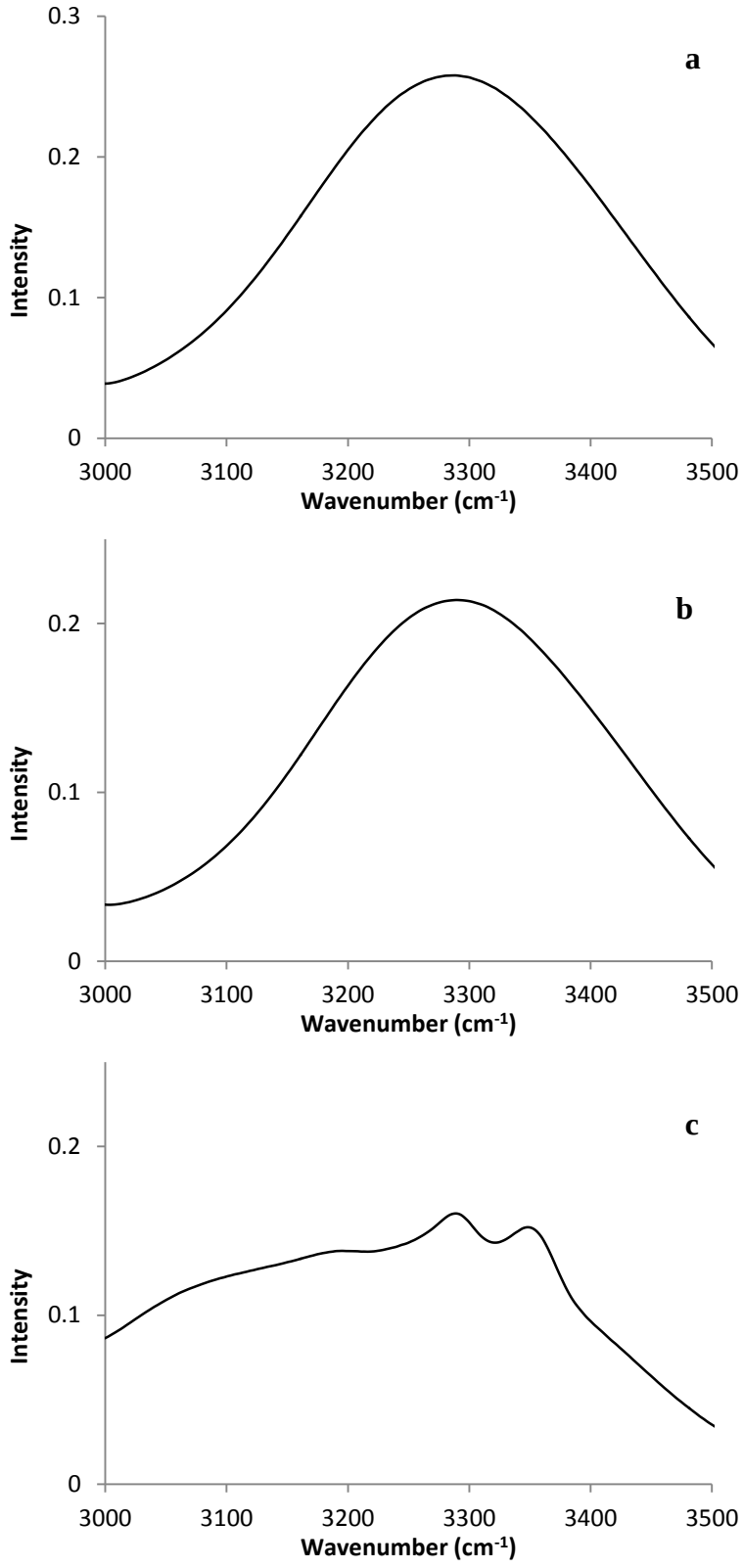
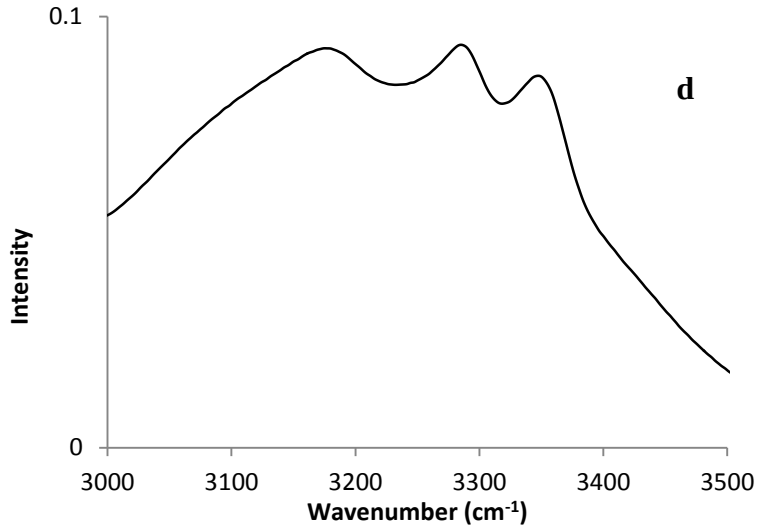
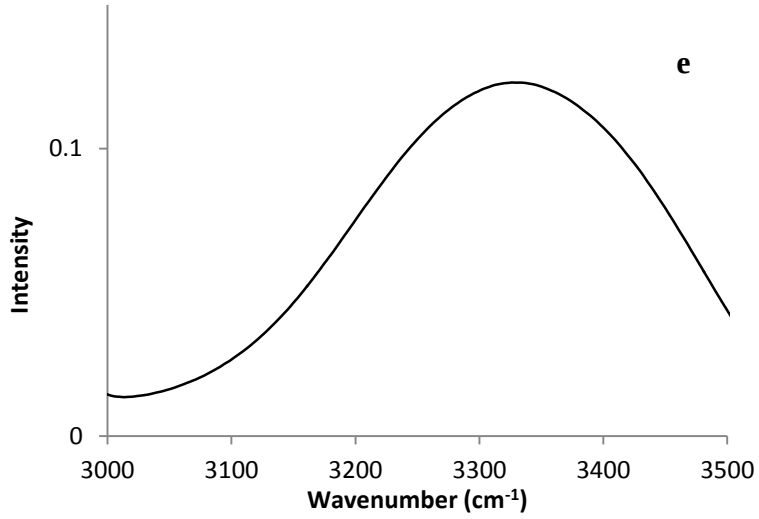
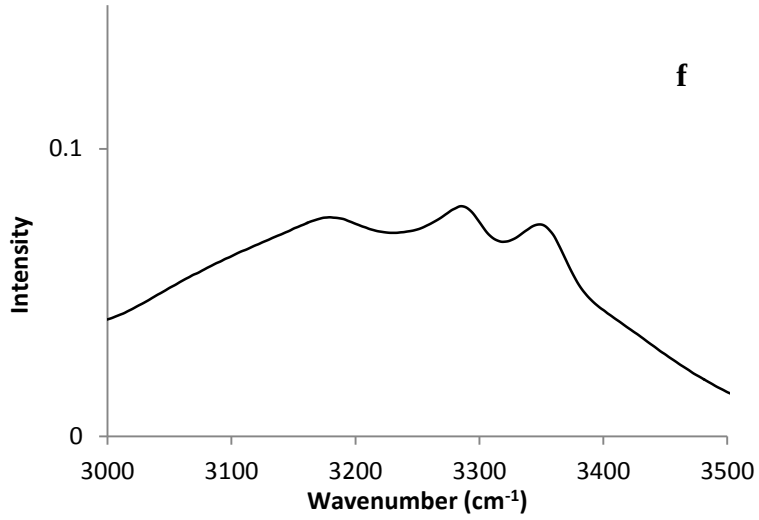


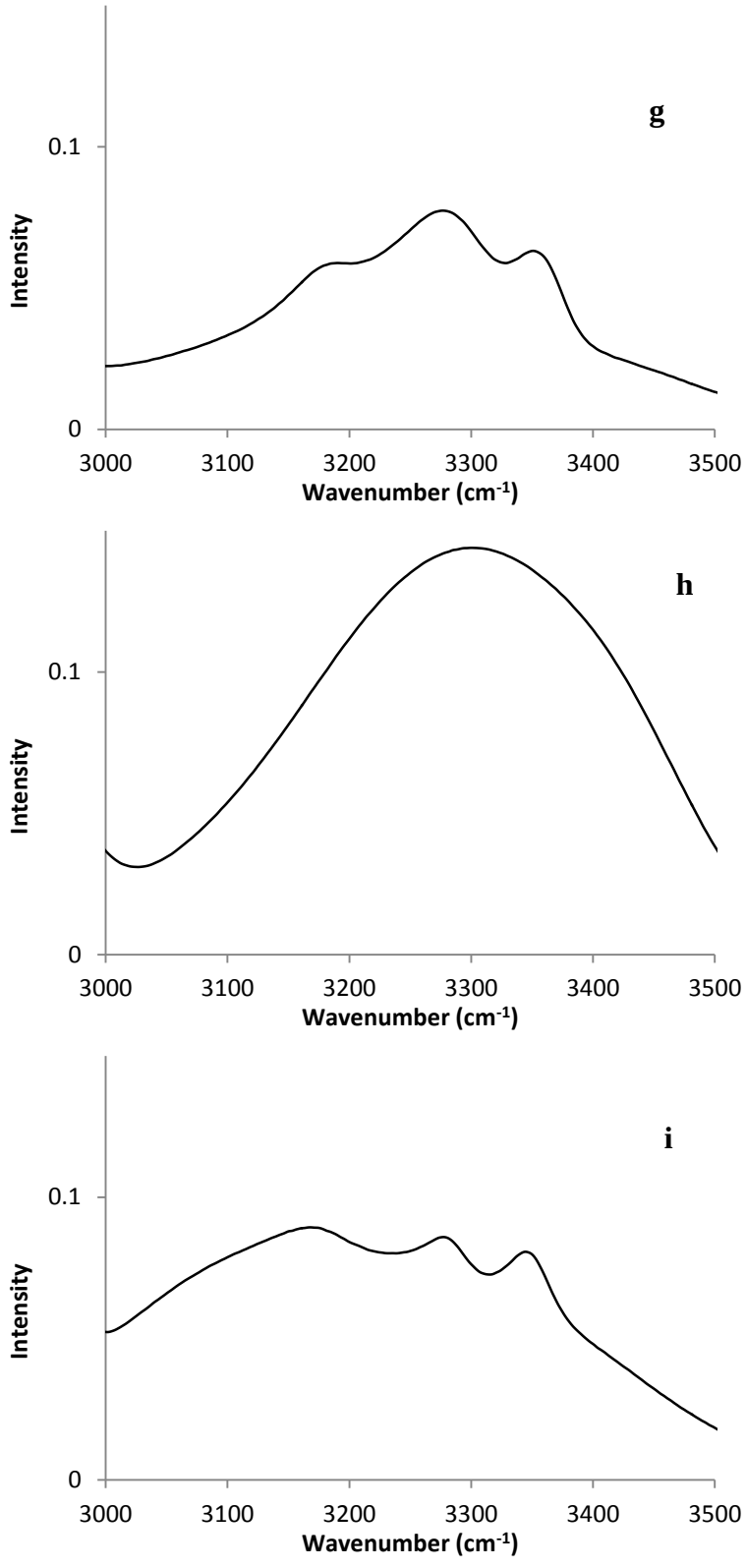
Figure S1. IR spectra of the solvents of a) glycerol, b) ethylene glycol, c) 3-amino-1,2-propanediol, d) 3-amino-1-propanol, e) diethylene glycol, f) 4-amino-1-butanol, g) diethylene triamine, h) triethanolamine, i) 2-amino-1-propanol, j) triethylene glycol, k) 1-amino-2-propanol, l) triethylene tetramine, m) 2-amino-1-butanol, n) 2-amino-2-ethyl-1,3-propanediol, o) 1-amino-2-butanol, p) 2-amino-1-pentanol, q) 2-amino-2-methyl-1-propanol, r) diethanolamine, s) 2-amino-1,3-propanediol.

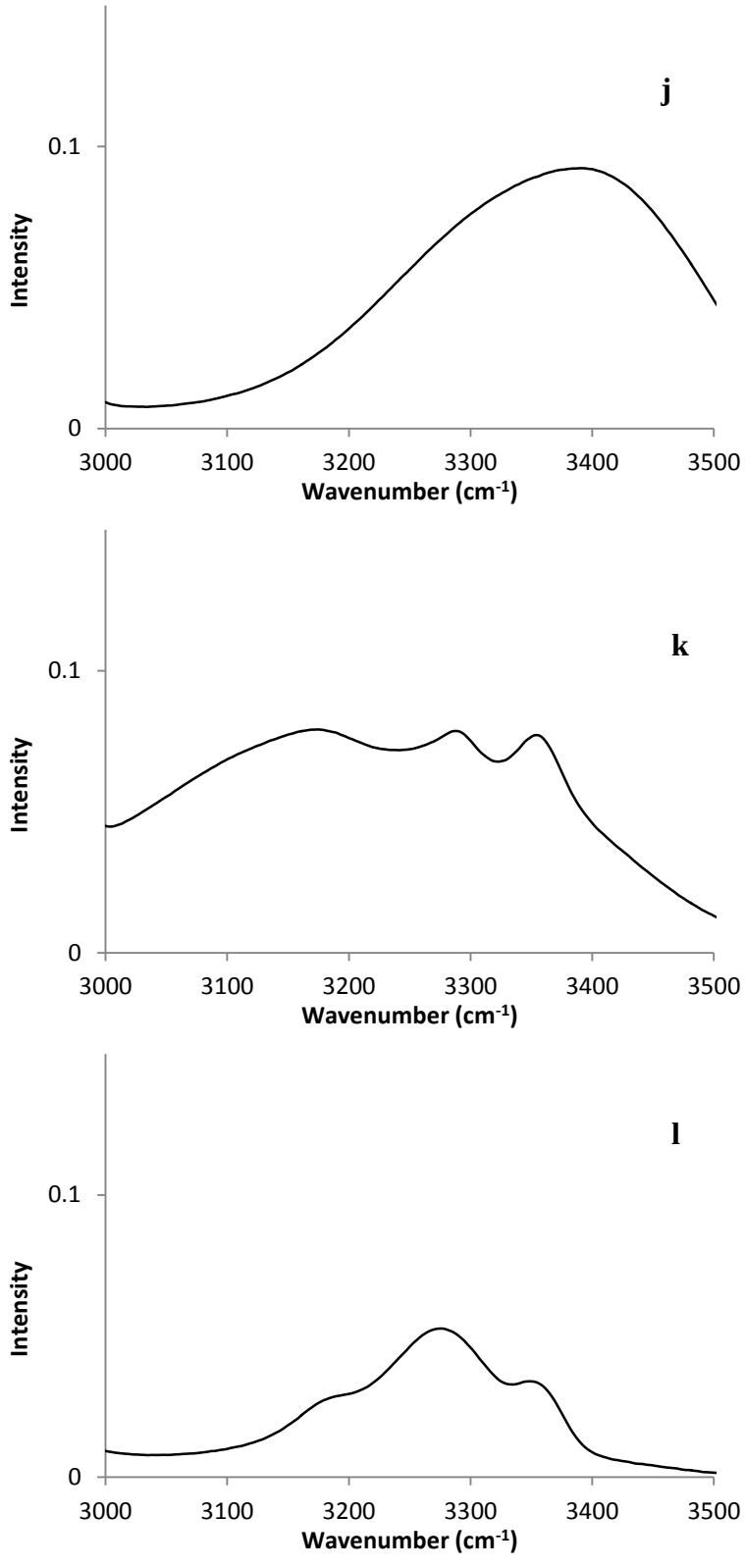


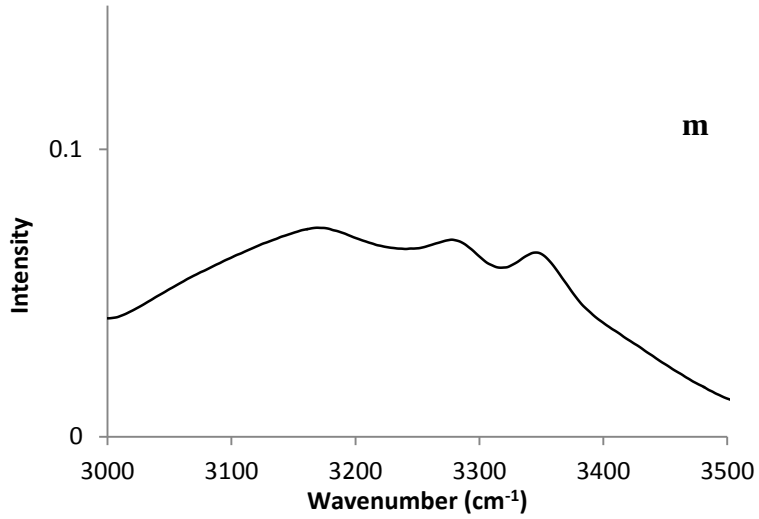


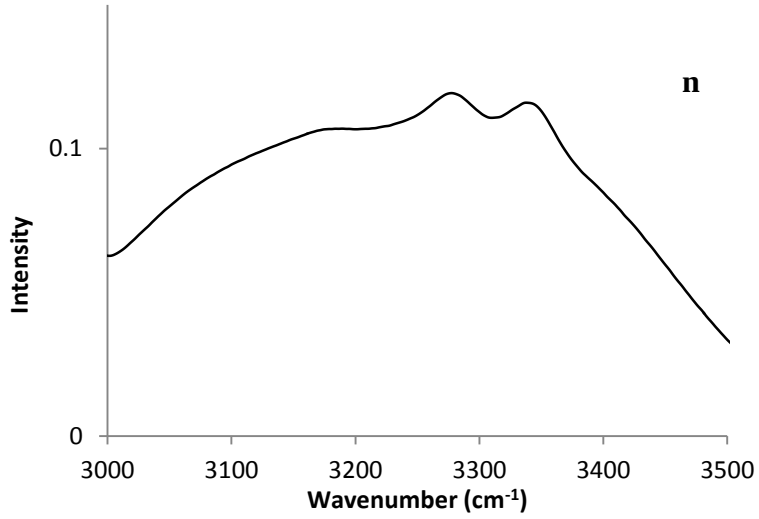


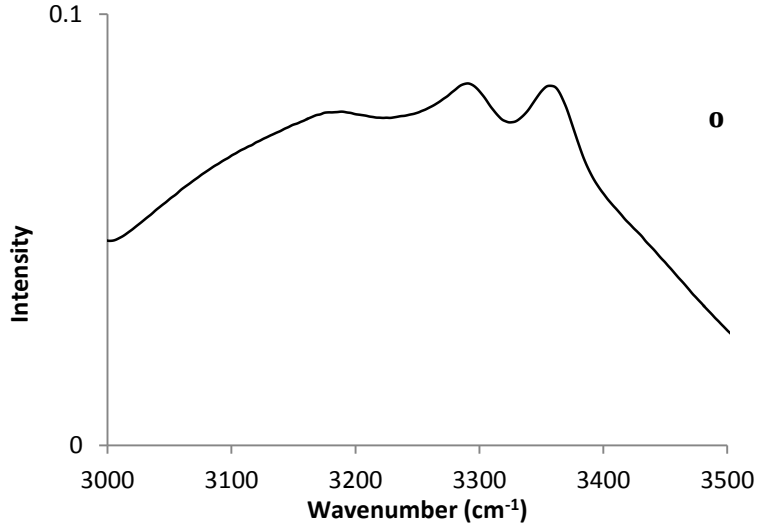


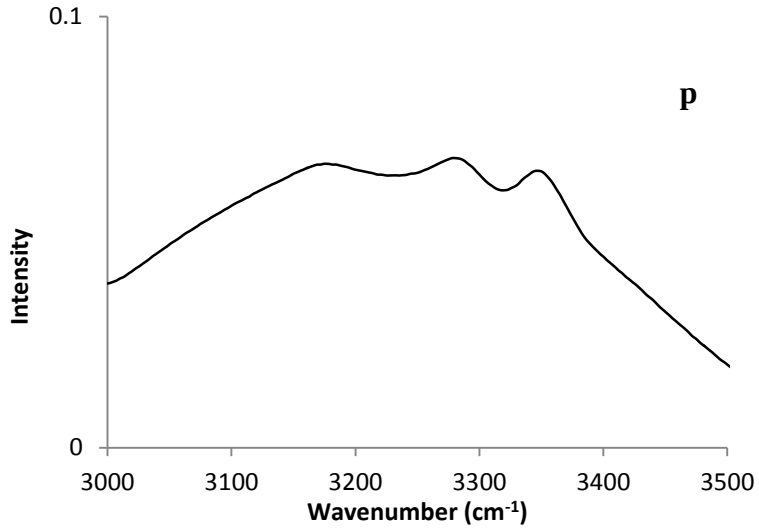


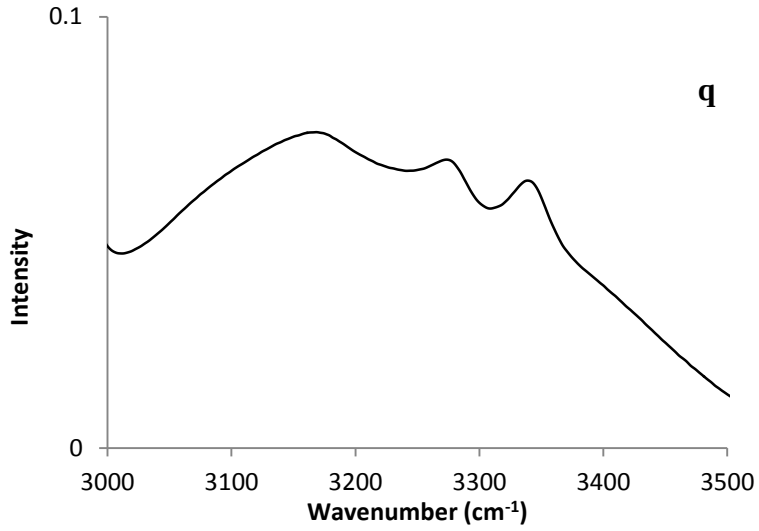


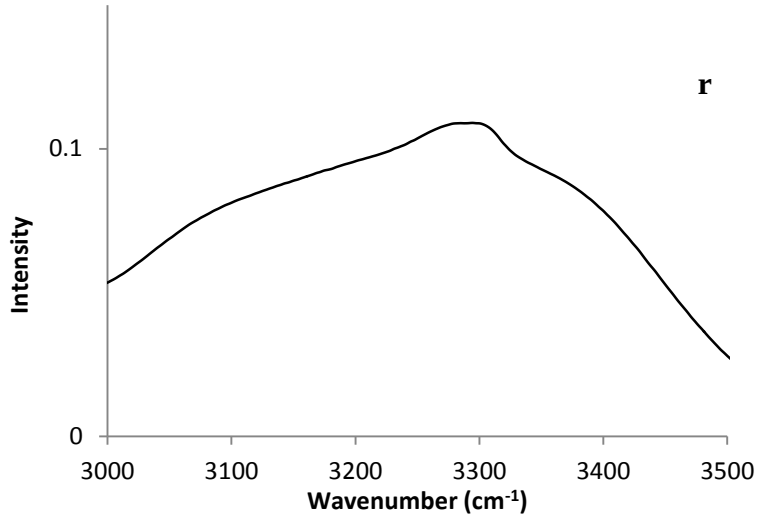












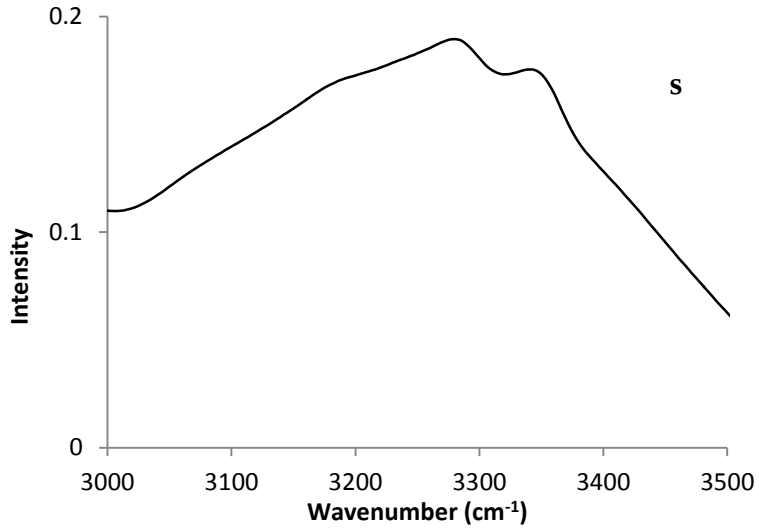


Figure S2. IR spectra between 3000 and 3500 cm^{-1} of the solvents of a) glycerol, b) ethylene glycol, c) 3-amino-1,2-propanediol, d) 3-amino-1-propanol, e) diethylene glycol, f) 4-amino-1-butanol, g) diethylene triamine, h) triethanolamine, i) 2-amino-1-propanol, j) triethylene glycol, k) 1-amino-2-propanol, l) triethylene tetramine, m) 2-amino-1-butanol, n) 2-amino-2-ethyl-1,3-propanediol, o) 1-amino-2-butanol, p) 2-amino-1-pentanol, q) 2-amino-2-methyl-1-propanol, r) diethanolamine, s) 2-amino-1,3-propanediol.