Figure S1. Photographs of the α-, β- and δ- chlorpropamide crystals in the same diamond anvil cell. (a) Crystallization of the new γ-form and growth of the δ-form; (b) a crystal of β-chlorpropamide alone, recrystallizing into the γ-form.

In both experiments the diamond anvil cell was loaded with a pentane-isopentane mixture (1:1) at -40º C. At this temperature a transformation of β- to β'- chlorpropamide is possible (Drebushchak, T. N., Drebushchak, V. A. & Boldyreva, E. V. (2011). Acta Cryst. B67, 163-176). The transition was shown to be completely reversible, preserving the integrity of the single crystal during a cooling-heating cycle.

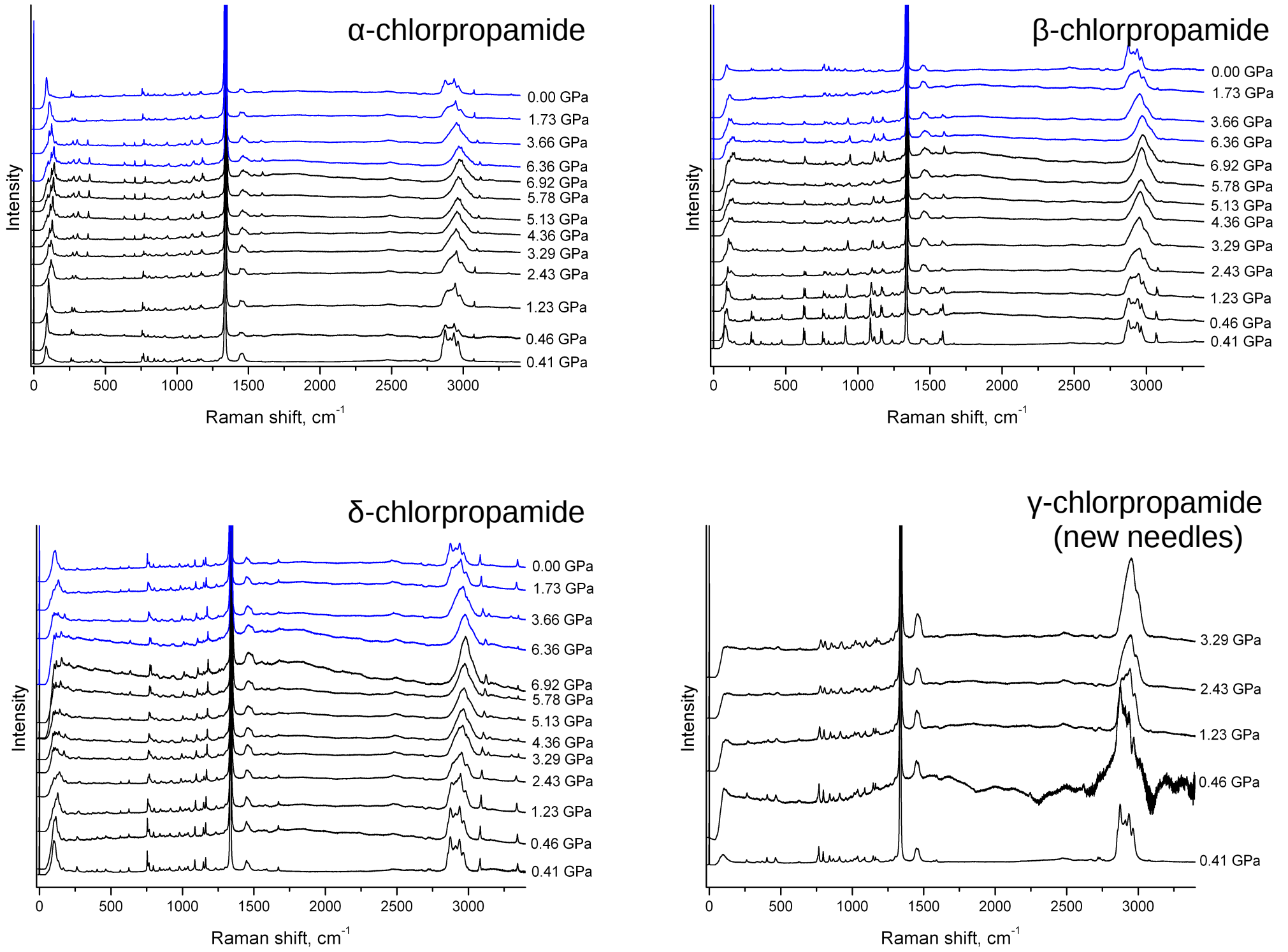

Figure S2. Raman spectra of different chlorporpamide polymorphs on compression (black) and decompression (blue).