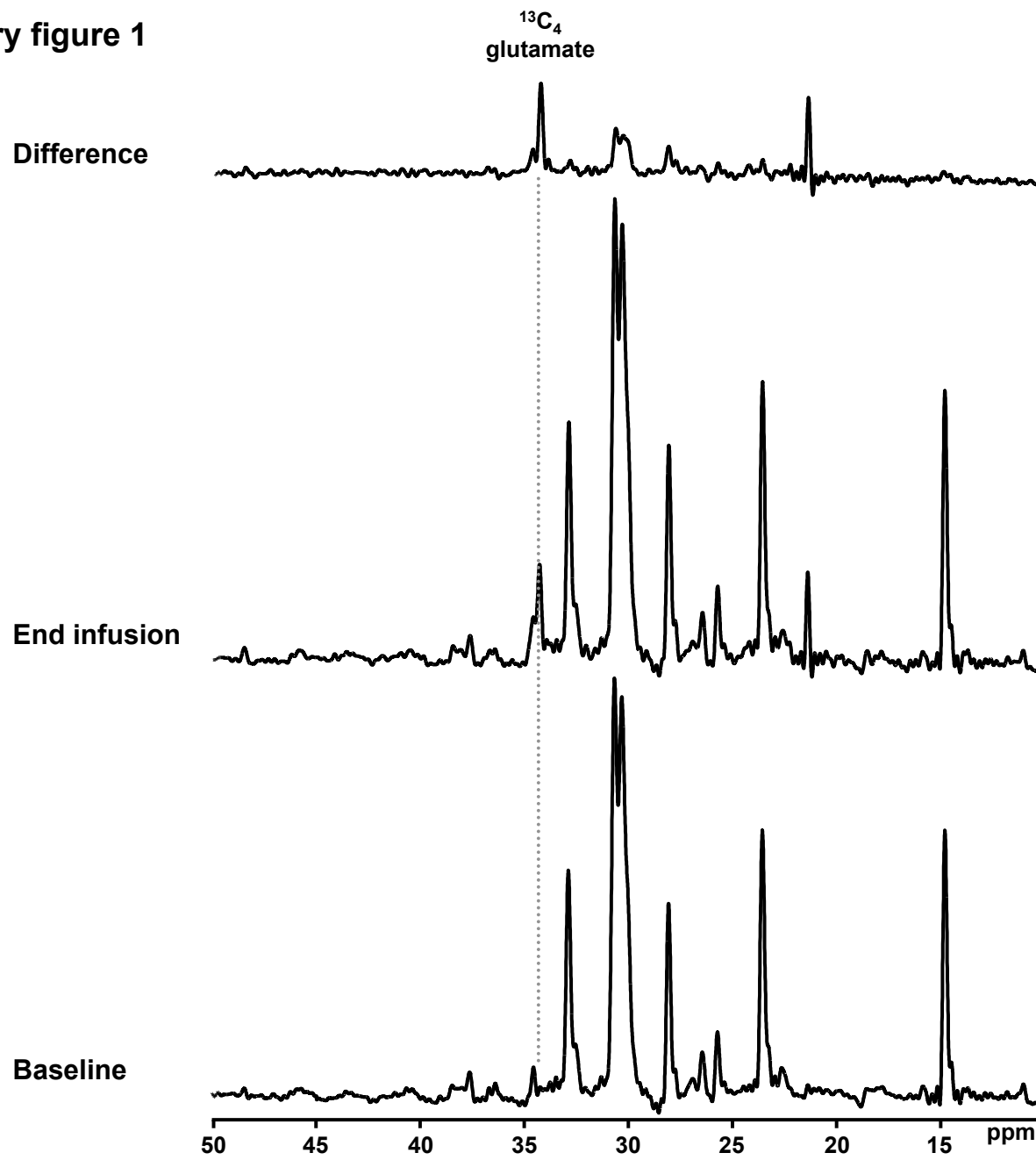
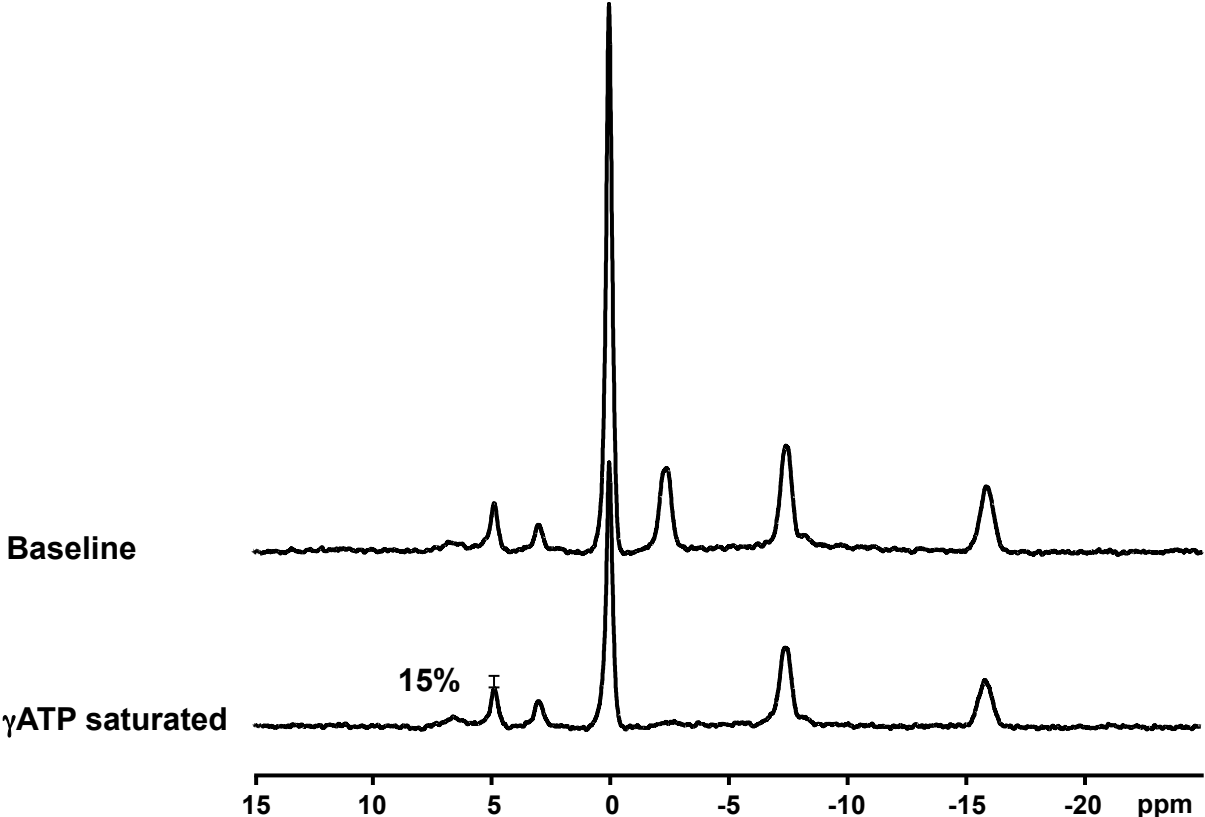


Supplementary figure 1



Supplementary figure 2



Supplementary Figure 1 $^{13}\text{C}[^1\text{H}]$ Polarization-transfer spectra acquired from an RTH subject prior to (baseline) and at the end of the 120 minute infusion (end infusion) of $[2\text{-}^{13}\text{C}]$ acetate. A difference (subtraction) spectrum is also included.

Supplementary Figure 2 Two ^{31}P MR spectra (baseline and γATP saturated) recorded during the saturation transfer experiment on a RTH patient. The comparison of the two MR spectra shows a transfer of $\sim 15\%$.