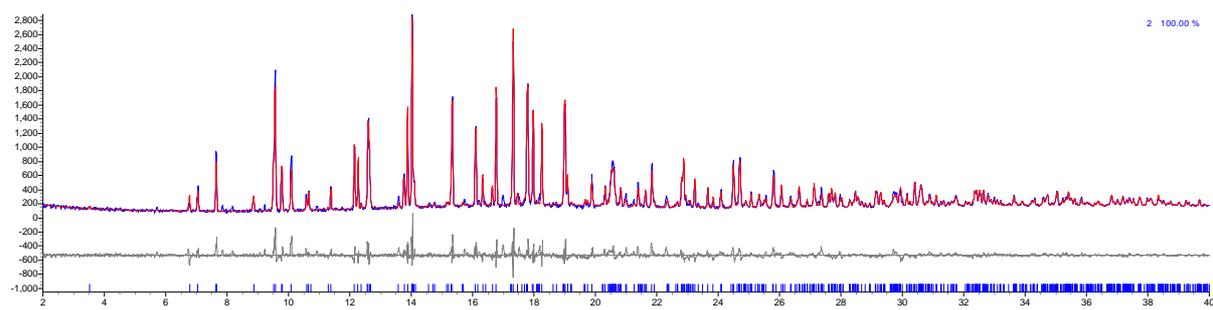
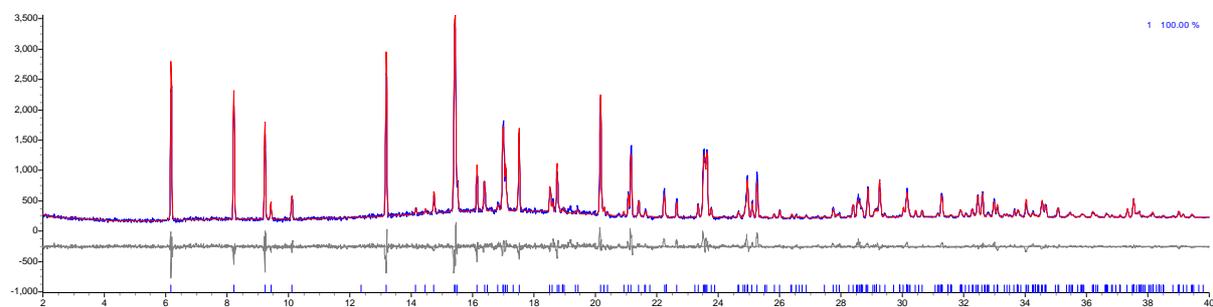


## Supplementary Material



**Figure S1.** Synchrotron powder diffraction pattern of the product **2** at room temperature prior to heating sequence shown in Figure 4. Observed (blue) and calculated (red) profiles and difference plot  $[(I_{\text{obs}} - I_{\text{calcd}})]$  (grey) of the Rietveld refinement of compound **1** ( $2\theta$  range 2.0 – 40.0 °, maximum resolution of 1.46 Å)



**Figure S2.** Synchrotron powder diffraction pattern of the product **1** at  $T = 400$  K following heating sequence shown in Figure 4 that enabled extrusion of HBr (g) from **2**. Observed (blue) and calculated (red) profiles and difference plot  $[(I_{\text{obs}} - I_{\text{calcd}})]$  (grey) of the Rietveld refinement of compound **1** ( $2\theta$  range 2.0 – 40.0 °, maximum resolution of 1.46 Å)