



Thermograms of different batches of  $\text{NaYF}_4:\text{Yb},\text{X}$  ( $\text{X} = \text{Er}^{3+}, \text{Tm}^{3+}$ ) prepared via thermal decomposition. The graphs reveal major weight losses between 6 and 16 wt% at around 360 °C which can be ascribed to oleic acid on their surface.