Supplementary Information

Original (unfiltered) $k^3 \cdot \chi(k)$ functions (left) of $Y_5O(O^iPr)_{13}$ (top), $Y(acac)_3 \cdot 3H_2O$ (middle) and $Y(OEtOMe)_3$ in 2-methoxyethanol (bottom), together with the Fourier transformed functions (right).