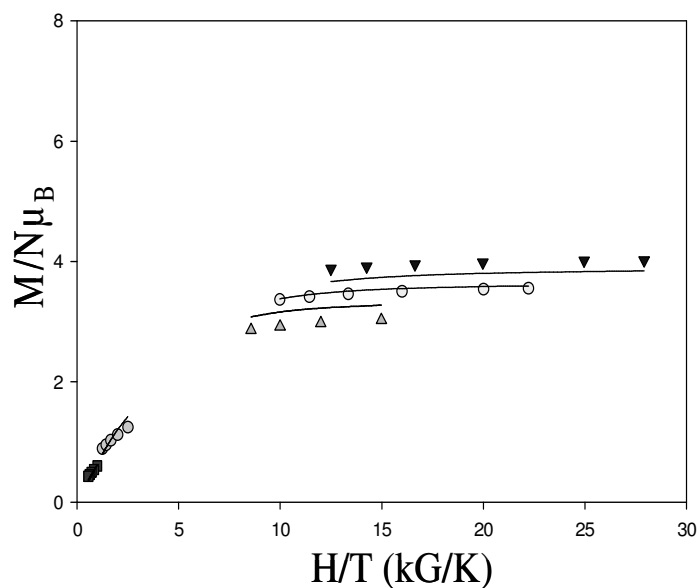


Supplementary Material

Elemental analysis: formula for dried complex **1**: $\text{C}_{128}\text{H}_{106}\text{Ca}_2\text{Mn}_{13}\text{O}_{54}$
Calculated (Found): C, 46.55 (46.43); H, 3.24 (3.15); N, 0.00 (0.00).



The fit (solid lines) gives $S = 5/2$, $g = 1.857(53)$, and $D = -1.628(250)$. The isofield lines are at 0.5 (■), 1 (●), 3 (▲), 4 (○) and 5 (▼) tesla fields.