

**Fig. 1 :** X-ray powder diffraction patterns of **1** ( $[N(n-C_4H_9)_4][Mn^{II}Cr^{III}(C_2O_4^{2-})_3]$ ), ( $\Delta$ )- or ( $\Lambda$ )-**1**. Circles correspond to the observed profile and full curve to the calculated one. The short vertical lines below the profile curves mark the positions of all Bragg reflections. The lower curves show the difference between observed and calculated profiles.



**Fig. 2 :** X-ray powder diffraction patterns of **2** ( $[N(n-C_4H_9)_4][Fe^{II}Cr^{III}(C_2O_4^{2-})_3]$ ), ( $\Delta$ )- or ( $\Lambda$ )-**2**. Circles correspond to the observed profile and full curve to the calculated one. The short vertical lines below the profile curves mark the positions of all Bragg reflections. The lower curves show the difference between observed and calculated profiles.