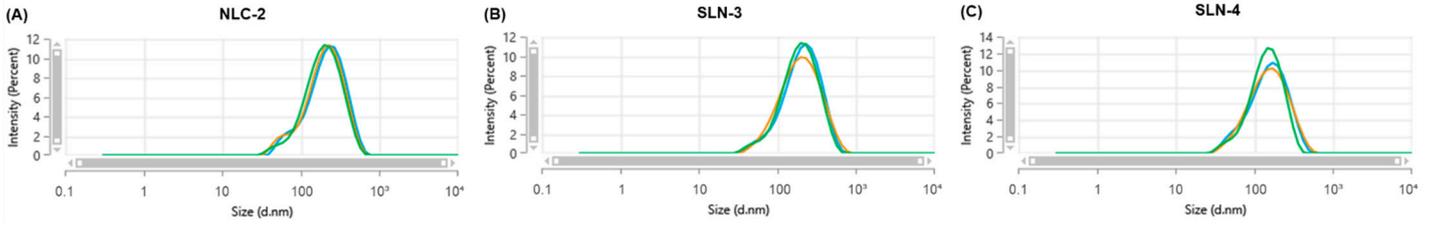
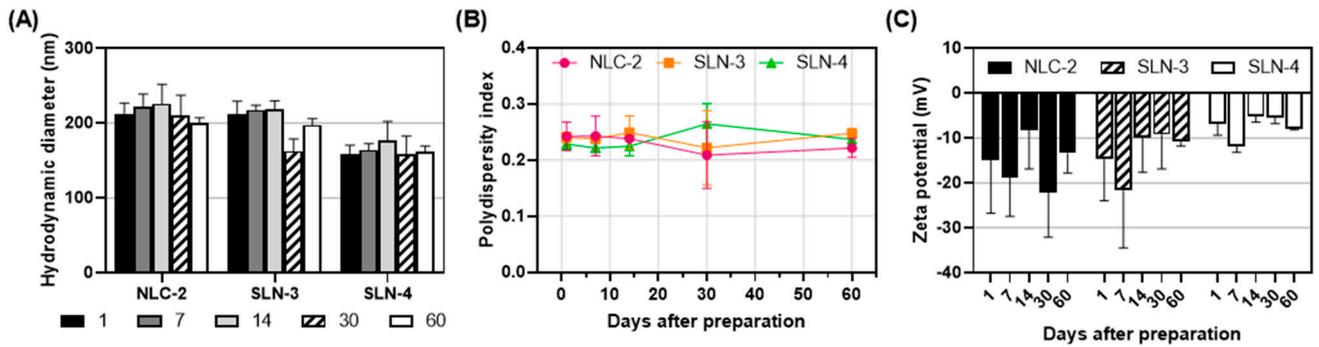


## Supplementary Material

### S1. Hydrodynamic diameter, polydispersity index, and zeta potential

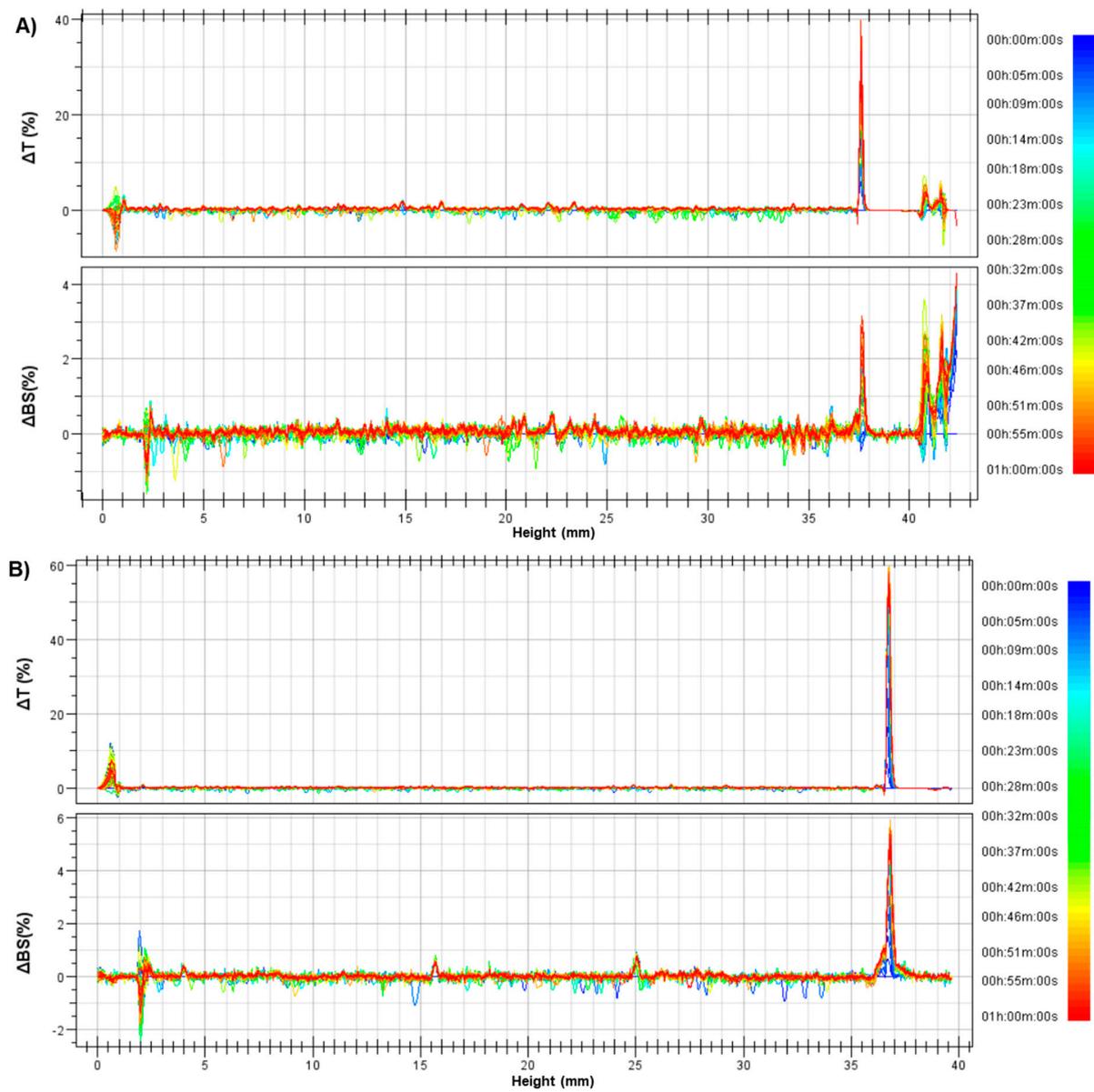


**Figure S1.** Size distributions of the non-CBD-loaded nanoparticles. Dynamic light scattering measurements of a batch of NLC-2 (A), SLN-3 (B), and SLN-4 (C) on day 1 after synthesis. Measurements were conducted in triplicate at room temperature.

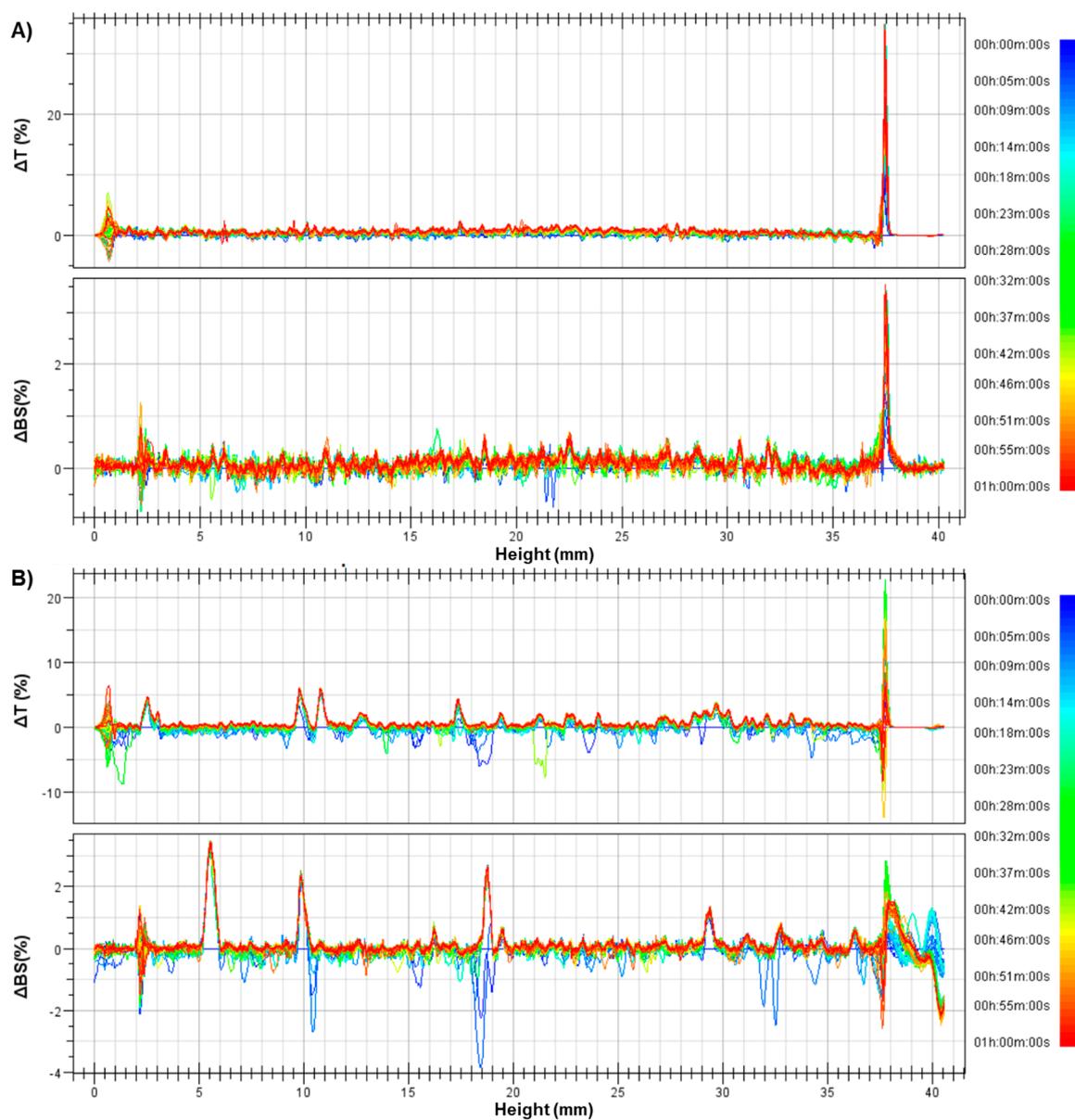


**Figure S2.** Monitoring of the physicochemical properties of the non-CBD-loaded nanoparticles over time. Hydrodynamic diameter –results obtained from intensity distribution– (A), polydispersity index (B), and zeta potential (C) of the non-CBD-loaded nanoparticles over time ( $n = 3$ ). Results are presented as the mean  $\pm$  standard deviation (SD).

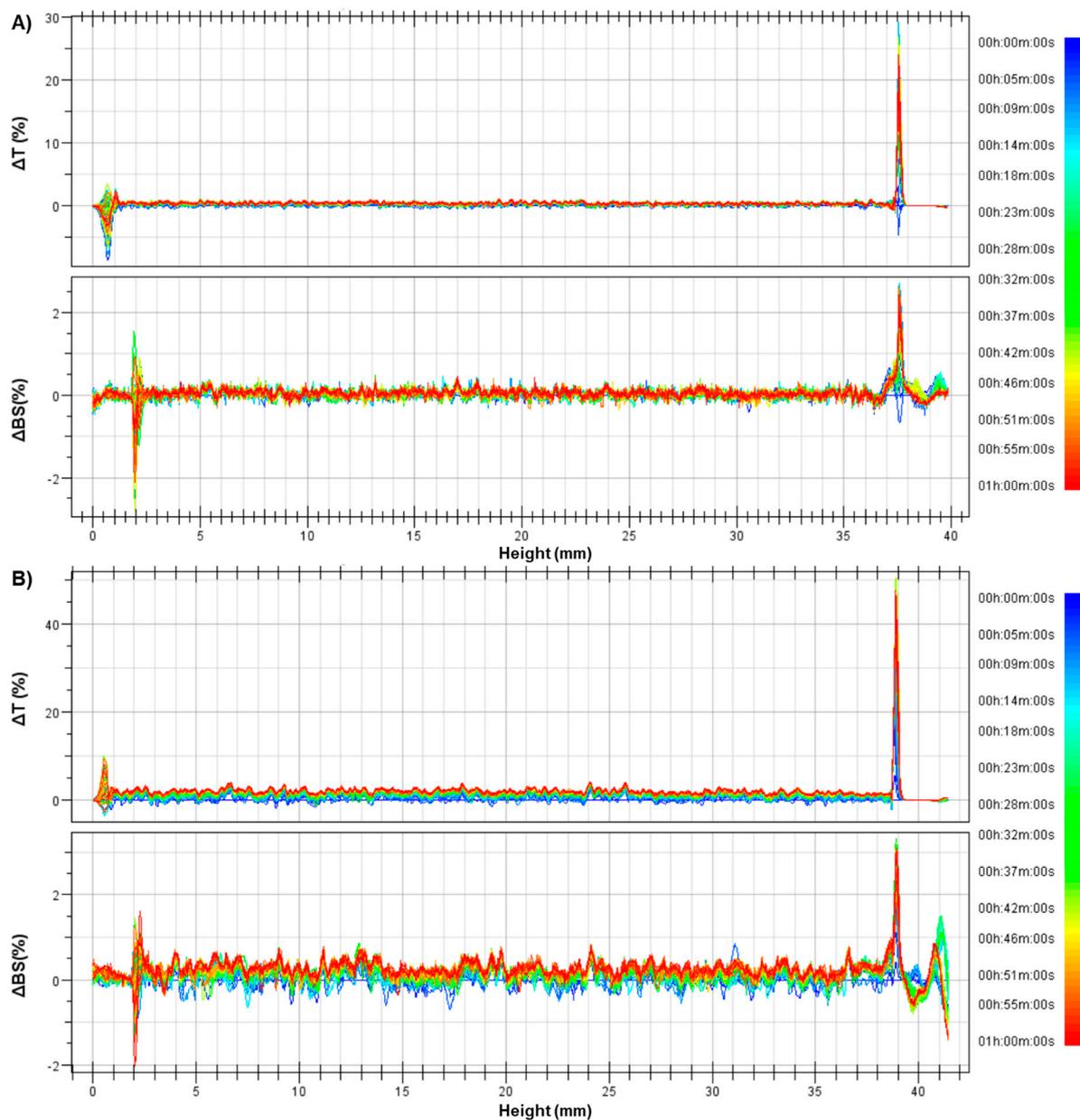
S2. Turbiscan Lab® Expert Analysis



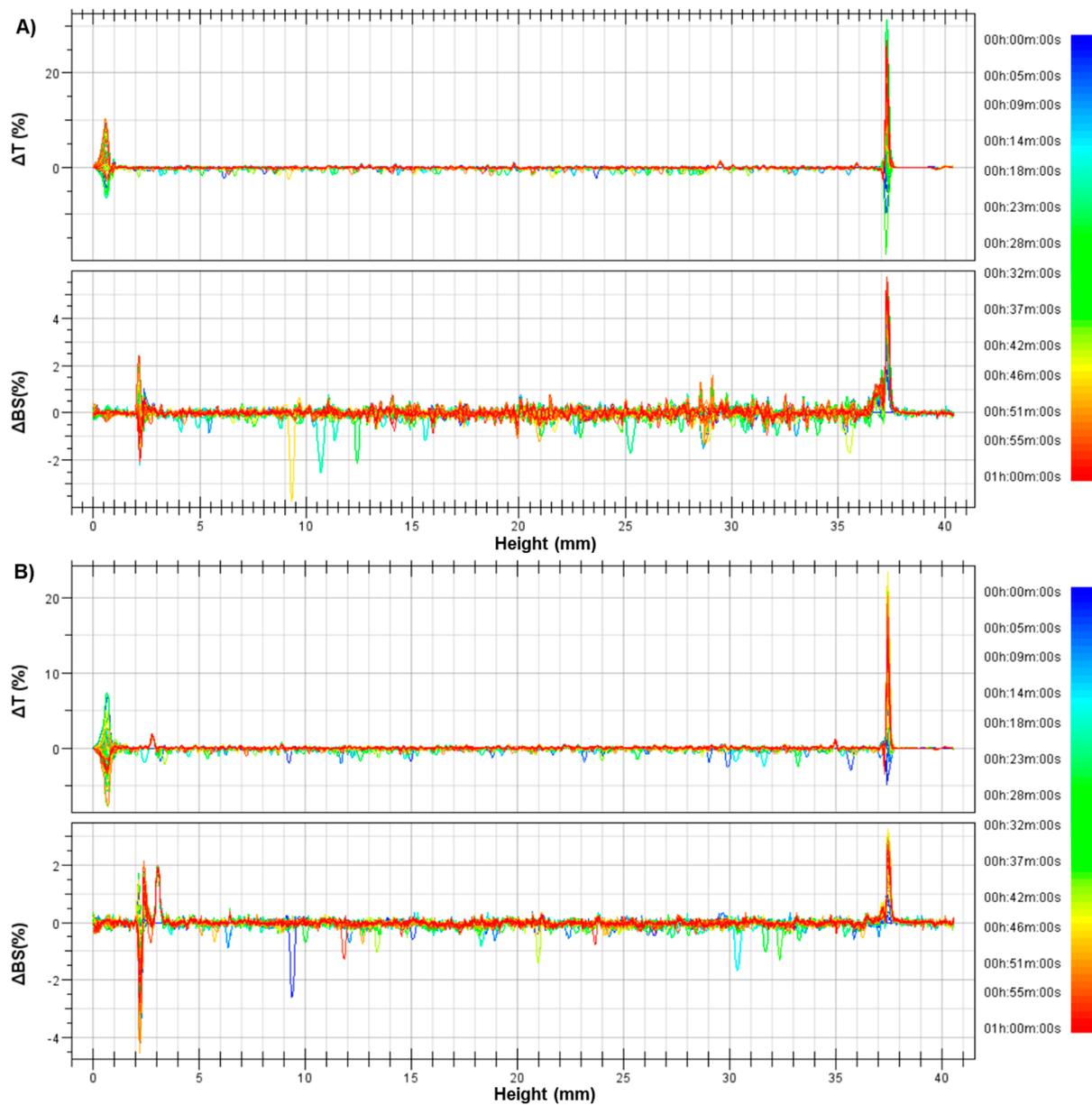
**Figure S3.** Backscattering and transmission profiles.  $\Delta BS$  and  $\Delta T$  for nanoparticle NLC-1 at 25 °C (A) and 37 °C (B), obtained from 60 scans over a 1-hour analysis period using the Turbiscan Lab® Expert.



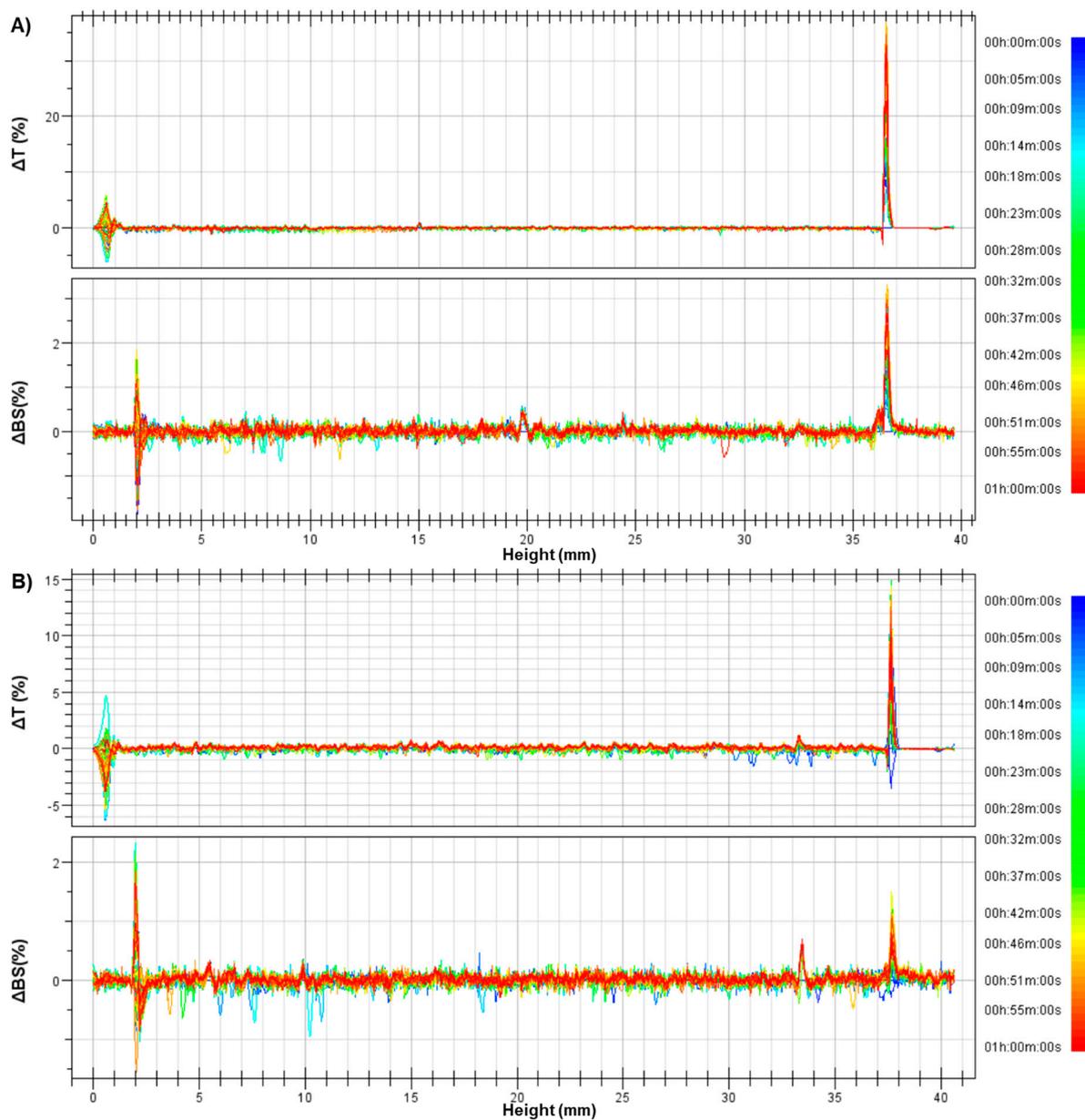
**Figure S4.** Backscattering and transmission profiles.  $\Delta BS$  and  $\Delta T$  for nanoparticle SLN-1 at 25 °C (A) and 37 °C (B), obtained from 60 scans over a 1-hour analysis period using the Turbiscan Lab® Expert.



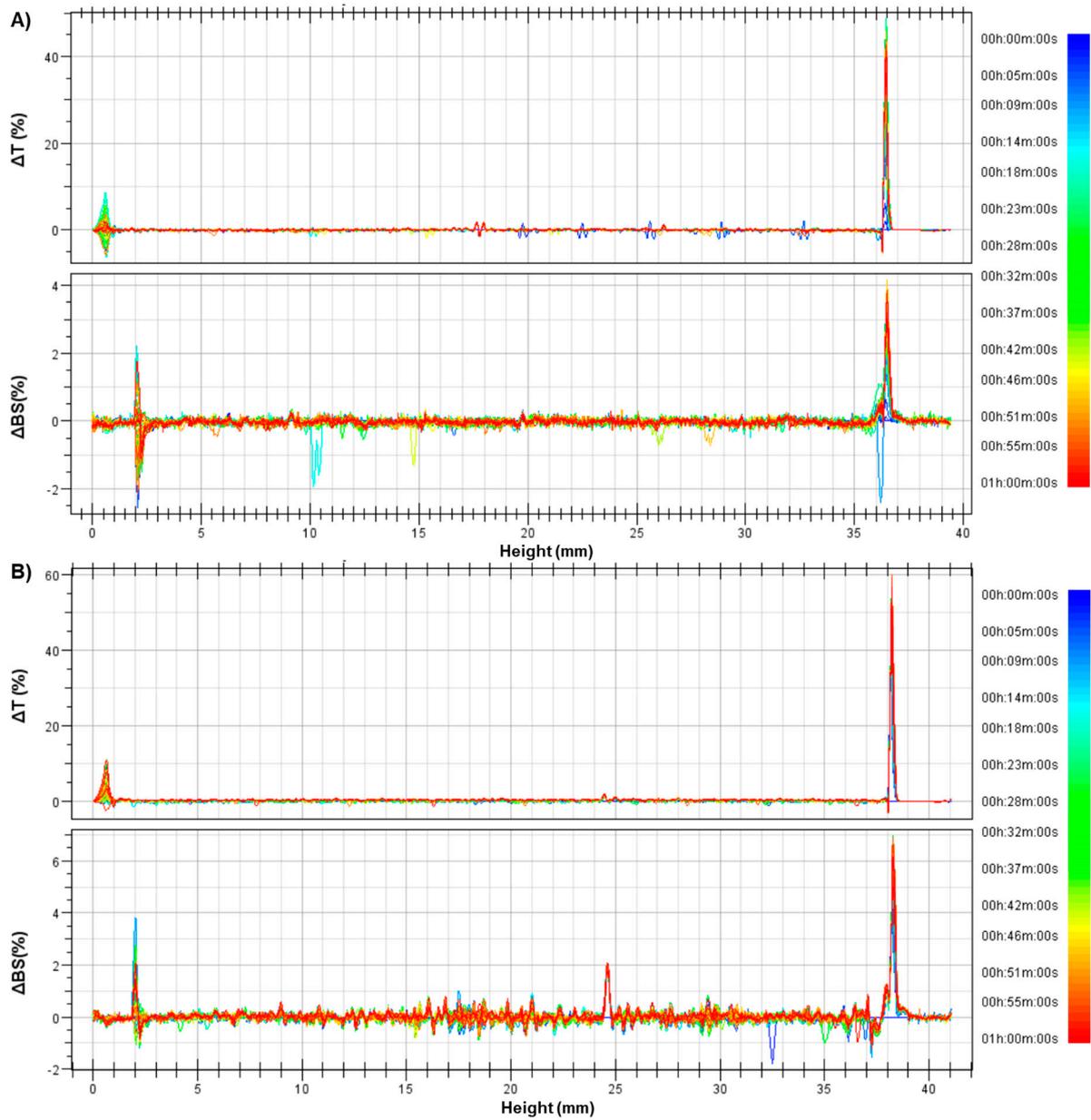
**Figure S5.** Backscattering and transmission profiles.  $\Delta$ BS and  $\Delta$ T for nanoparticle SLN-2 at 25 °C (A) and 37 °C (B), obtained from 60 scans over a 1-hour analysis period using the Turbiscan Lab® Expert.



**Figure S6.** Backscattering and transmission profiles.  $\Delta BS$  and  $\Delta T$  for nanoparticle NLC-2 at 25 °C (A) and 37 °C (B), obtained from 60 scans over a 1-hour analysis period using the Turbiscan Lab® Expert.



**Figure S7.** Backscattering and transmission profiles.  $\Delta BS$  and  $\Delta T$  for nanoparticle SLN-3 at 25 °C (A) and 37 °C (B), obtained from 60 scans over a 1-hour analysis period using the Turbiscan Lab® Expert.



**Figure S8.** Backscattering and transmission profiles.  $\Delta BS$  and  $\Delta T$  for nanoparticle SLN-4 at 25 °C (A) and 37 °C (B), obtained from 60 scans over a 1-hour analysis period using the Turbiscan Lab® Expert.