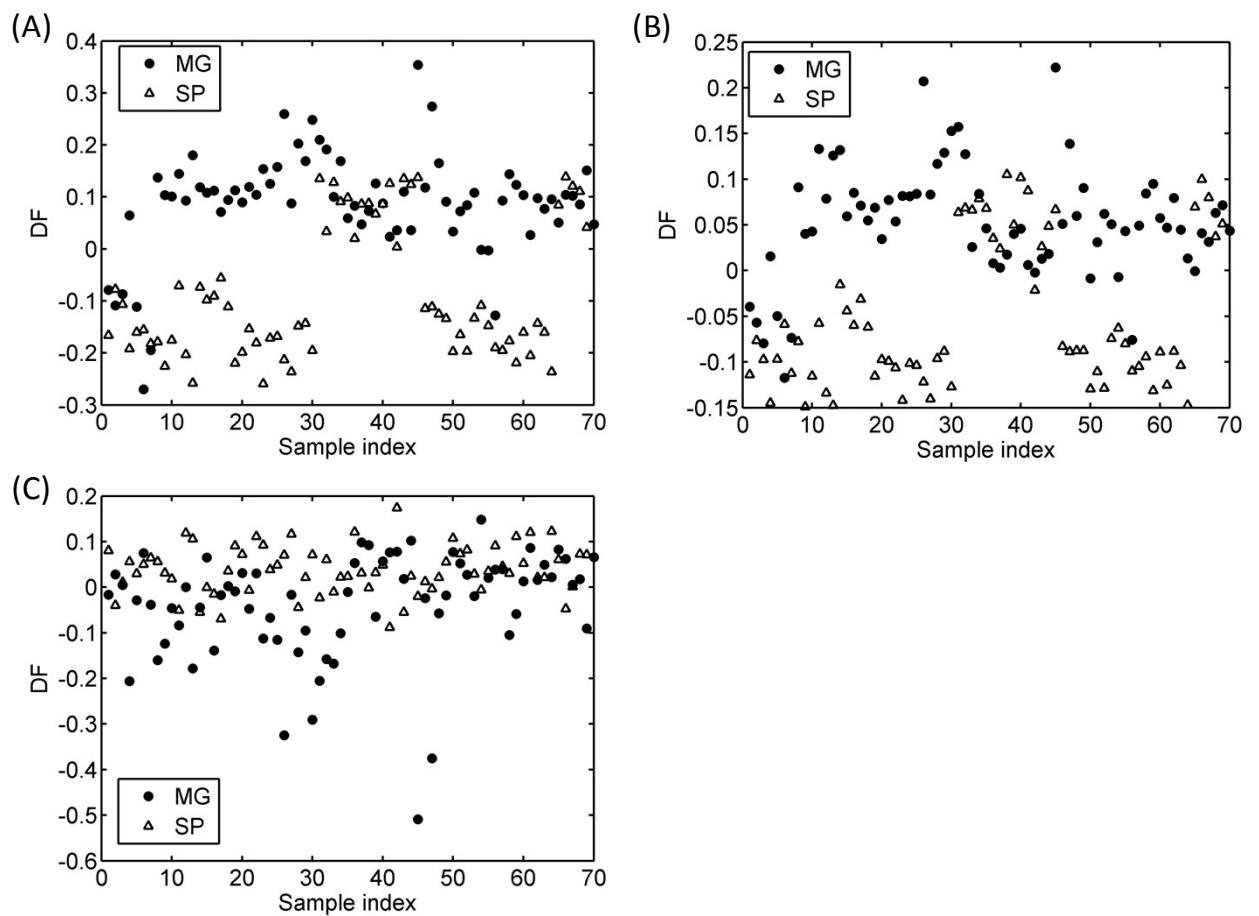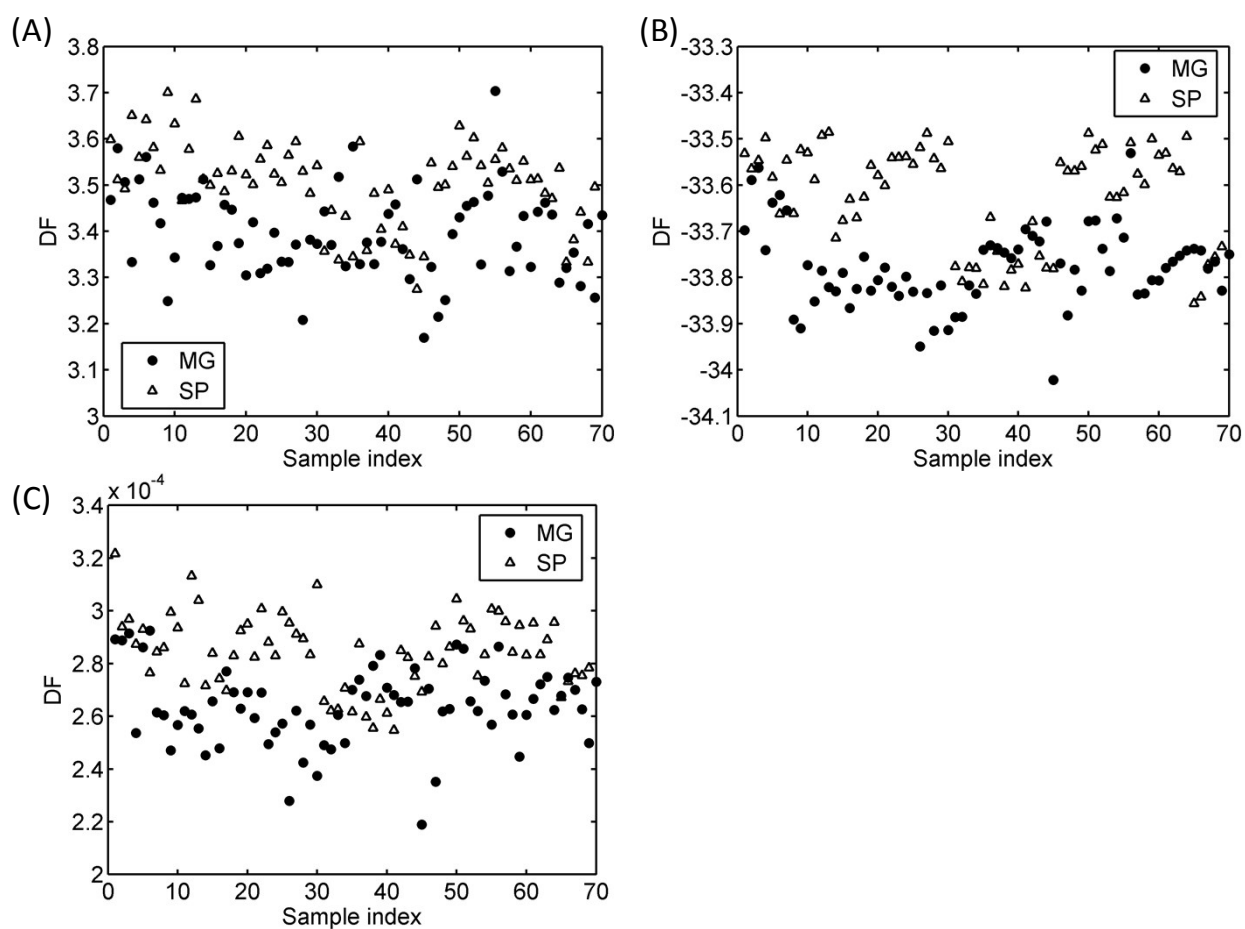**Supplementary material 1.** NIR spectra of sugarcane aguardente and cachaça from São Paulo and Minas Gerais States pre-processed with MSC (A). NIR spectra pre-processed with 2ndD SG (B).

Supplementary material 2. Discriminant function x samples index calculated by using the PCA–LDA model for sugarcane aguardente from São Paulo (Δ) and Minas Gerais States (●) using: (A) without pre-processing; (B) MSC; (C) second derivative Savitzky-Golay.

Supplementary material 3. Discriminant function x samples index calculated by using the SPA–LDA model for sugarcane aguardente from São Paulo (Δ) and Minas Gerais States (●) using: (A) without pre-processing; (B) MSC; (C) second derivative Savitzky-Golay.