

Supplementary Information

Feasibility of a New Method for Identification and Discrimination of Gunshot Residues by Total Reflection X-Ray Fluorescence and Principal Component Analysis

*Luisa P. Ferreira,^a Clésia C. Nascentes,  *^a Frederico N. Valladão^b and Rogério A. Lordeiro^b*

^a*Departamento de Química, Universidade Federal de Minas Gerais, Avenida Presidente Antônio Carlos, 6627, 31270-901 Belo Horizonte-MG, Brazil*

^b*Seção Técnica de Química e Física Legal do Instituto de Criminalística da Polícia Civil de Minas Gerais, Rua Juiz de Fora, 400, 30180-060 Belo Horizonte-MG, Brazil*

TXRF analysis

As showed in Figure S1, when the calcium concentration increases the recovery of Sb decreases due to spectra overlap, that is not adequately corrected by Bayes deconvolution.

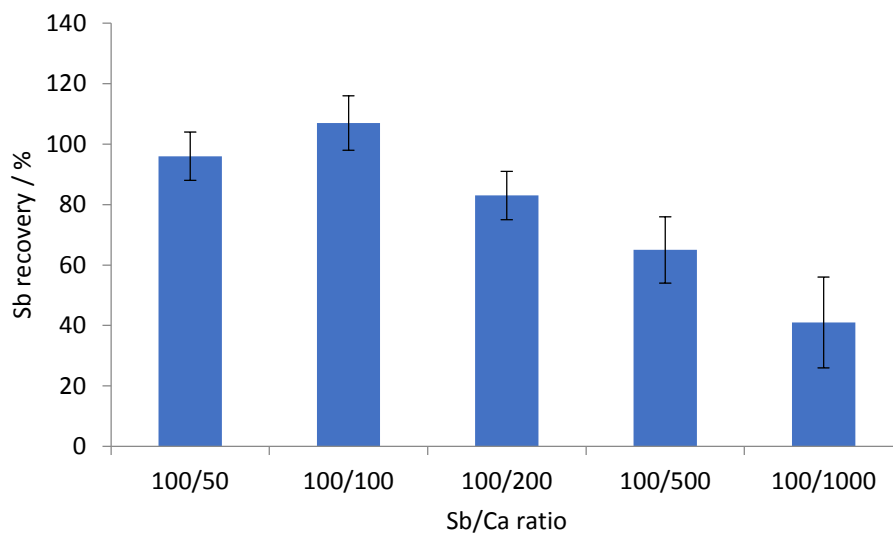


Figure S1. Antimony recovery in different Sb/Ca ratio after spectra deconvolution by Bayes profile.