

Assesment of efficiency of internal standardization for iron ores and slags analysis by inductively coupled plasma atomic emission spectroscopy

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Abstract

The efficiency of internal standardization for correction of instrumental drift during determining the concentration of iron ores, concentrates and slags of main components by inductively coupled plasma atomic emission spectrometry have been shown using thermodynamic modeling (by «TERRA» software). Basing on modeling results, analytical procedure have been developed, its experimental testing on certified reference materials showed decreasing of the analysis error with scandium as internal standard in the analytes concentration range 0.1-48 wt. %.