

ISO 15632:2012-08 (E)

Microbeam analysis - Selected instrumental performance parameters for the specification and checking of energy-dispersive X-ray spectrometers for use in electron probe microanalysis

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Requirements	3
4.1	General description	3
4.2	Energy resolution	3
4.3	Dead time	3
4.4	Peak-to-background ratio	4
4.5	Energy dependence of instrumental detection efficiency	4
5	Check of further performance parameters	4
5.1	General	4
5.2	Stability of the energy scale and resolution	4
5.3	Pile-up effects	4
5.4	Periodical check of spectrometer performance	5
Annex A (normative) Measurement of line widths (FWHMs) to determine the energy resolution of the spectrometer		6
Annex B (normative) Determination of the L/K ratio as a measure for the energy dependence of the instrumental detection efficiency		9
Bibliography		11