ISO 18315:2018 (E)

Nuclear energy — Guidance to the evaluation of measurement uncertainties of impurity in uranium solution by linear regression analysis

Contents

		Foreword
1		Scope
2		Normative references
3		Terms and definitions
4		Principle
5		Uncertainty evaluation
	5.1 5.2 5.3 5.4 5.5	Regression line fitting Adequacy check of fitted regression line Combined uncertainty Effective degrees of freedom Expanded uncertainty
6		Reflection of reference solution uncertainties in evaluation
7		Bias correction
8		Uncertainty evaluation report
Annex	κA	(informative) Practical example of uncertainty evaluation
	A.1 A.2 A.3	Measurements of reference solutions and sample solution Regression line fitting and uncertainty evaluation Calibration uncertainty depending on variable x
Annex	В	(informative) Flowchart of uncertainty evaluation process
Annex	C	(informative) Non-uniform variances and weighting method
	C.1 C.2 C.3	Weighted and reversed inverse regression Estimators for variance and bias Uncertainty evaluation

Page count: 18