ISO 8299:2005-02 (E)

Nuclear fuel technology - Determination of the isotopic and e lemental uranium and plutonium concentrations of nuclear materials in nitric acid solutions by thermal-ionization mass spectrometry

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Principle 1

4 Reagents and materials 2

5 Apparatus 4

6 Apparatus for mass spectrometry 4

7 Sampling 5

8 Preparation of the filaments 7

9 Instrument calibration 8

10 Isotopic mass spectrometric measurements 9

11 Calculation of the results 10

12 Blanks 13

13 Quality control 13

14 Repeatability of the measurements 14

15 Accuracy of the method 14

16 Interferences 15

Annex A (normative) Preparation and standardization of spike solutions 16

Bibliography 22