ISO 11665-2:2019 (E)

Measurement of radioactivity in the environment — Air: radon-222 — Part 2: Integrated measurement method for determining average potential alpha energy concentration of its short-lived decay products

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms, definitions and symbols

3.1 Terms and definitions
3.2 Symbols

4 Principle

5 Equipment

5.1 General
5.2 Measuring device
5.2.1 Sampling system
5.2.2 Detection system
5.3 Counting system

6 Sampling

6.1 Sampling objective
6.2 Sampling characteristics
6.3 Sampling conditions
6.3.1 General
6.3.2 Installation of sampling system
6.3.3 Sampling duration
6.3.4 Volume of air sampled

7 Detection method

8 Measurement

8.1 Procedure
8.2 Influence quantities
8.3 Calibration

9 Expression of results

9.1 Average potential alpha energy concentration
9.2 Standard uncertainty
9.3 Decision threshold and detection limit
9.4 Limits of the confidence interval

10 Test report

Annex A (informative) Example of a method meeting the requirements of this document

A.1 Equipment
A.2 Sampling
A.3 Measurement procedure
A.4 Example

Page count: 13