

# DIN EN ISO 13164-2:2020-12 (E)

## Water quality - Radon-222 - Part 2: Test method using gamma-ray spectrometry (ISO 13164-2:2013)

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
Foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms, definitions and symbols .....	7
3.1	Terms and definitions .....	7
3.2	Symbols .....	7
4	Principle .....	8
5	Sampling .....	8
5.1	General requirement .....	8
5.2	Sampling requirement .....	8
5.3	Sample volume .....	9
5.4	Container characteristics .....	9
6	Transportation and storage .....	9
7	Detection .....	9
8	Measurement procedure .....	10
9	Quality assurance and quality control programme .....	10
9.1	General .....	10
9.2	Influence quantities .....	10
9.3	Instrument verification .....	11
9.4	Method verification .....	11
9.5	Demonstration of analyst capability .....	11
10	Expression of results .....	11
10.1	Activity concentration .....	11
10.2	Standard uncertainty of the activity concentration .....	12
10.3	Decision threshold .....	12
10.4	Detection limit .....	13
10.5	Confidence limits .....	13
11	Test report .....	13
Annex A (informative)	Sample spectra .....	15
Annex B (informative)	Sample accuracy and precision data .....	17
Bibliography .....		18