

# ISO 11665-2:2012-07 (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

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms, definitions and symbols .....</b>	<b>1</b>
<b>3.1</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>3.2</b>	<b>Symbols .....</b>	<b>2</b>
<b>4</b>	<b>Principle of the measurement method .....</b>	<b>3</b>
<b>5</b>	<b>Equipment .....</b>	<b>3</b>
<b>5.1</b>	<b>General .....</b>	<b>3</b>
<b>5.2</b>	<b>Measuring device .....</b>	<b>3</b>
<b>5.3</b>	<b>Counting system .....</b>	<b>4</b>
<b>6</b>	<b>Sampling .....</b>	<b>4</b>
<b>6.1</b>	<b>Sampling objective .....</b>	<b>4</b>
<b>6.2</b>	<b>Sampling characteristics .....</b>	<b>4</b>
<b>6.3</b>	<b>Sampling conditions .....</b>	<b>5</b>
<b>7</b>	<b>Detection method .....</b>	<b>6</b>
<b>8</b>	<b>Measurement .....</b>	<b>6</b>
<b>8.1</b>	<b>Procedure .....</b>	<b>6</b>
<b>8.2</b>	<b>Influence quantities .....</b>	<b>6</b>
<b>8.3</b>	<b>Calibration .....</b>	<b>7</b>
<b>9</b>	<b>Expression of results .....</b>	<b>7</b>
<b>9.1</b>	<b>Average potential alpha energy concentration .....</b>	<b>7</b>
<b>9.2</b>	<b>Standard uncertainty .....</b>	<b>8</b>
<b>9.3</b>	<b>Decision threshold and detection limit .....</b>	<b>8</b>
<b>9.4</b>	<b>Limits of the confidence interval .....</b>	<b>9</b>
<b>10</b>	<b>Test report .....</b>	<b>9</b>
Bibliography .....		13