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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YC/Z 241-2016

Replacing YC/T 241-2008

**Technical standard system for metrology of tobacco industry
(English Translation)**

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Foreword

This instructional document has been drafted in accordance with the rules given in GB/T 1.1-2009.

Please note that some of this document may be patentable. The issuing agencies of this document do not bear the responsibility of identifying these patents.

This guideline technical document replaces YC/T 241-2008 "Tobacco industry measurement technical standard system", and YC/T 241-2008 phase Than, in addition to editorial changes, the main technical changes are as follows.

- Added the term "measurement uncertainty", deleted the "deviation" and other 18 terms;
- Modify the standard text of the structure and standard architecture;
- Increasing the highest standards of measurement of the tobacco sector;
- Modify some normative appendix content.

This guiding technical document is proposed by the State Tobacco Monopoly Administration.

This guidance document is governed by the National Tobacco Standardization Technical Committee Cigarettes Technical Committee (SAC/TC144/SC1).

The drafting of the guidance of technical documents. China Tobacco Standardization

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1 Scope

This Guidance Document specifies the composition, structure drawings and standard details of the technical standards system for the measurement of the tobacco industry.

This guidance document is used to guide the tobacco industry's metrological management, scientific research, quality control, standardization and other work, as well as Tobacco System revision and management of industry measurement standards.

2 Terms and definitions

The following terms and definitions apply to this document.

Quantity

The characteristics of a phenomenon, an object, or a substance whose size can be represented by a number and by a reference object.

Note 1: Quantities can refer to the amount of the general concept or a specific amount. The general concept of the amount of such as length, energy, charge, resistance, the concentration of the substance; a specific amount of a long rod Degrees, the resistance of a wire, a sample of ethanol concentration.

Note 2: The reference object can be a unit of measurement, a measurement program, a standard substance, or a combination thereof.

Note 3: The symbol for quantity is shown in the current valid version of the national standard "quantity and unit", in italics. A given symbol can represent a different amount.

Note 4: The International Association of Applied and Theoretical Physics (IUPAC)/International Federation of Clinical Chemistry (IFCC) prescribes that the format of laboratory medicine is " System --- composition; amount of type. " Example.

Plasma (blood) --- sodium ions; specific human substance concentration at a specific time equal to 143mmol/L.

Note 5: The amount defined here is a scalar. However, vectors or tensors whose components are

scalars can also be considered quantities.

NOTE 6: Quantities can generally be conceptually divided into physical quantities, chemical quantities, biomass, or into basic quantities and derived quantities.

[JJF1001-2011, Definition 3.1] 2.2 Measurement A process that is experimentally obtained and can be reasonably assigned a measure of one or more magnitudes.

Note 1: The measurement does not apply to nominal characteristics.

Note 2: Measurement means the comparison of quantities and includes the counts of the entities.

Note 3: The prerequisites for the measurement are the description of the amount that is appropriate for the intended use of the measurement, the measurement procedure, and the measurement procedure (including measurement conditions) A calibrated measurement system that operates.

[JJF1001-2011, Definition 4.1] 2.3 Metrology to achieve a unified unit, the amount of accurate and reliable activities.

[JJF1001-2011, Definition 4.2] 2.4 Measurement error, error of measurement Error the measured value minus the reference value.