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CCS X 85

YC

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

YC/T 464-2013

**Cigars. Determination of water in smoke condensates.
Gas-chromatographic method
(English Translation)**

Issued on: January 1, 1970

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Issued by: State Tobacco Monopoly Administration

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Foreword

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This standard was drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20001.4-2001 given.

2005 "Determination of mainstream smoke cigars by gas chromatography. the N ° 67 CORESTA recommended method used in this standard translation method equivalent in the water. " the standard relative to CORESTA recommended method N ° 65.2005 made the following editorial changes.

--- The standard name be changed to "cigar total particulate matter in water by Gas Chromatography";

--- Removed CORESTA recommended method N ° 67.2005 Introduction;

--- Modify the normative references;

--- With a decimal point "." Instead of a comma as the decimal point "." this standard was proposed by the State Tobacco Monopoly Bureau.

This standard by the National Standardization Technical Committee on Tobacco Cigarette Technical Committee (SAC/TC144/SC1) centralized.

This standard was drafted. National Tobacco Quality Supervision and Inspection Center, China Tobacco Standardization Research Center, Shandong Tobacco Industry Co., Ltd.

The company, Sichuan and Chongqing Tobacco Industry Co., Ltd., Hubei tobacco industry limited liability company, Anhui Tobacco Industry Co., Ltd., Beijing tobacco Grass Quality Supervision and Inspection Station.

1 Scope

This standard specifies the gas chromatographic method cigar mainstream smoke total particulate matter in the water.

This standard applies to the determination cigar mainstream smoke total particulate matter in the water.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

YC/T 461 Routine analytical cigar smoking machine Definitions and standard conditions

YC/T 463 cigars by conventional analytical determination of total particulate matter and tar

with a cigar smoking machine YC/T 465 total particulate matter cigar nicotine by gas

chromatography Principle 3 According to YC/T 463 trap cigar mainstream smoke total

particulate matter. Use extractant containing an internal standard to the total particulate trap

Phase was measured by gas chromatography to extract moisture content, calculate the

total particulate matter in moisture content.

4 Reagents

Use analytical grade reagents.

4.1

Carrier gas. helium or nitrogen.

4.2

isopropanol. water content not higher than 1.0mg/mL.

4.3

Internal standard. ethanol or methanol ($\geq 99\%$).

4.4 Extractant

Isopropyl alcohol solution containing the appropriate concentration of internal standard (4.3), generally at a concentration of 5mL/L. If uncontrolled extraction agent storage temperature, Temperature before use should be equilibrated to $22\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$. Extracting agent with the extraction agent with YC/T 463 total particulate matter used in the determination of nicotine when using the preparation, see Appendix A.

4.5 distilled or deionized water.

4.6 Standard working solution

Adding a certain amount of distilled or deionized water (4.5) to the extracting agent (4.4) to prepare at least four different concentrations of standard solution, its concentration should cover the expected range of water concentration detected in a sample, wherein a standard solution without adding water (solvent blank).

To prevent water, bloom extraction agent container shall be fitted to the water system, all solutions should be sealed. Before using the extraction agent should continue stir Mixed with the moisture uniform, standard solution was prepared by extraction with 6.1 agent should be used for the same batch of extraction agent. Proposed standard solution prepared at least a week.

Preparation time.

5 Equipment

Common laboratory apparatus and the following items.