



**National Standard on Environment Protection of the
People's Republic of China**

中华人民共和国国家环境保护标准

HJ 544-2009

**Stationary source emission-Determination of
sulfuric acid mist-Ion chromatography (on trial)**

固定污染源废气 硫酸雾的测定

离子色谱法（暂行）

This electronic edition is the press release. The formal standard text published by China

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Foreword

The standard is formulated to implement the *Environmental Protection Law of the People's Republic of China* and *Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution*, protect the environment, guarantee human health and stipulate the monitoring methods of sulfuric acid mist in exhaust gas of stationary pollution source.

The standard specifies the ion chromatography for determining the sulfuric acid mist in stationary source emission.

This standard is organized and formulated by Department of Science, Technology and Standards of Ministry of Environmental Protection of the People's Republic of China.

This standard is mainly drafted by: Beijing Municipal Environmental Monitoring Center.

The standard is approved by Ministry of Environmental Protection on December 30, 2009.

The standard is implemented on April 1, 2010.

The Ministry of Environmental Protection is responsible for the interpretation of the standard.

Stationary source emission-Determination of sulfuric acid mist-Ion chromatography (on trial)

1 Scope of application

The standard specifies the ion chromatography for determining the sulfuric acid mist in stationary source emission

The standard applies to the determination of sulfuric acid mist in the stationary source emission.

For the integrated emission, filter cartridge is used for preparing 250ml sample, the detection limit of this method is 0.12 $\mu\text{g/ml}$ at this time; when sample volume is 400L, detection limit is 0.08 mg/m^3 , lower limit of determination is 0.3 mg/m^3 , and upper limit of determination is 500 mg/m^3 .

For the fugitive emission, filter membrane is used for preparing 250ml sample, the detection limit of this method is 0.12 $\mu\text{g/ml}$ at this time; when sample volume is 3 m^3 , the detection limit is 0.01 mg/m^3 , and lower limit of determination is 0.04 mg/m^3 .

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the undated documents so quoted, the latest editions shall be applicable to this standard.

GB/T 16157 The determination of particulates and sampling methods of gaseous pollutants emitted from exhaust gas of stationary source

HJ/T 55 Technical guidelines for fugitive emission monitoring of air pollutants

HJ/T 373 Technical specifications of quality assurance and quality control for monitoring of stationary pollution source (on trial)

3 Method and principle

In this method, glass fiber filter cartridge or quartz fiber filter cartridge is used for collecting particulate matter sample in integrated emission, superfine glass fiber filter membrane or quartz fiber filter membrane is used for collecting particulate matter in fugitive emission,



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