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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3467.2-2014

Determination of polychlorinated naphthalenes in electrical and electronic products. Part 2: High performance liquid chromatography method

电子电气产品中多氯萘的测定 第2部分：高效液相色谱法

(English Translation)

Issued on: January 13, 2014 **Implemented on: August 1, 2014**

Issued by: General Administration of Customs

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Foreword

SN/T 3467 "electrical and electronic products, polychlorinated naphthalene determination" is divided into three parts.

--- Part 1. gas chromatography - mass spectrometry;

--- Part 2. High performance liquid chromatography;

--- Part 3. Gas chromatography - electron capture detection method.

This section SN/T Section 23467 of.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

This section is responsible for drafting unit. People's Republic of China Guangdong CIQ.

1 Scope

This section provides high-performance liquid chromatographic method for electrical and electronic products polychlorinated naphthalene content.

This section applies to the determination of polychlorinated naphthalene in electrical and electronic goods and plastic parts.

2 Method summary

Samples microwave extraction with toluene as the solvent extract was subjected to silica gel SPE column purification, concentration, volume, high performance liquid chromatography Measured, quantified by external standard.

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3 Reagents and materials

3.1
Toluene. chromatography.

3.2
Methanol. chromatographically pure.

Over 3.3 chloronaphthalene. an eight-chloro-chloronaphthalene standards, a purity of >=97%.

3.4
standard stock solution (1000mg/L). Weigh accurately respectively 25mg (accurate to 0.1mg) Polychlorinated naphthalene standards, placed in 25mL capacity Bottle with toluene (3.1) is dissolved, set the volume.

3.5
Working standard solutions. The standard stock solution (3.4) was diluted stepwise with toluene concentrations were formulated to 0.5mg/L, 1mg/L, 5mg/L, 25mg/L, 100mg/L of standard working solution.

3.6
silica SPE column. 3mL/500mg, before use with 5mL toluene activation.

3.7
The organic phase filter. 0.45μm.

4 Instruments and equipment

4.1
High performance liquid chromatograph. with DAD detector.

Microwave Extractor 4.2. with polytetrafluoroethylene (PTFE) core magnetic stirrer, rated power not less than 200W.

4.3
vacuum rotary evaporator.

4.4
Freezer Mill.

4.5
Balance. a sense of the amount of 0.1mg.

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5 Sample

The sample was cut to a particle size of not more than 5mm, the refrigerating mill to a maximum particle size of not greater than 1mm.

6 Step, Analysis

Sample preparation before 6.1

6.1.1 Extraction

Weigh 0.5g (accurate to 0.1mg) sample in the microwave extraction tank, adding PTFE core magnetic stirring, then add 10mL A

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