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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3334.2-2013

Determination of triphenyltin and butyltin trichloride in the household appliances. LC-ICP-MS

小型家用电器中三苯基锡、三丁基锡的测定 液相色谱-电感耦合等离子体质谱法

(English Translation)

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Foreword

This section SN/T 3334 Part 2.

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

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

1 Scope

SN/T 3334 provisions of this part of the small household appliances triphenyltin, tributyltin liquid chromatography - inductively coupled plasma mass Spectroscopy methods.

This section applies to the determination of small household appliances polymeric material triphenyltin and tributyltin, the lower limit of detection are of 0.05mg/kg.

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.

Laboratory use specifications and test methods GB/T 6682 Analysis GB/Z20288 hazardous substances in electrical and electronic products test samples split General requirements

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3 PRINCIPLE OF THE METHOD

In accordance with the requirements of small household appliances after GB/Z20288 split, pulverized to a particle size of 1mm. Rapid solvent extraction with toluene, the use of liquid Chromatography - inductively coupled plasma mass spectrometry were separated measurement.

4 Terms and Definitions

The following terms and definitions apply to this document.

Polymer material polymericmaterials it can be formed by molding or calendering of films or shapes of various synthetic or semisynthetic organic polymer material and concentrated.

NOTE: polymeric materials include polyethylene, polyvinyl chloride, epoxy resin, polyamide, polycarbonate, ABS resin, polystyrene and the like.

5 Reagents and materials

Unless otherwise indicated, the reagents were HPLC grade water for the second deionized water.

5.1
toluene.

5.2
acetonitrile.

5.3
acetic acid.

5.4
triethylamine.

5.5
triphenyltin (triphenyltin; TPT) standards, the purity of >=98%.

5.6
tributyltin (butyltintrichloride; TBT) standards, the purity of >=98%.

5.7
Mobile phase. acetonitrile/water/acetic acid = 65.23.12 (ratio by volume), 5% triethylamine adjusted to pH = 3.0.

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