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

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**Acoustics -- Determination of sound power levels of noise
sources using sound intensity -- Part 3: Precision method for
measurement by scanning**

声学 声强法测定噪声源声功率级 第3部分：扫描测量精密法
(English Translation)

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What this standard covers

This standard specifies a surface by measuring sound intensity measurement method to measure the components of sound power levels of noise sources method, the measurement surface shall be completely surrounded by the measured noise source. Perpendicular to the plane of the sound intensity measurements on the area integral component of sound intensity probe is being divided into a number of adjacent partial measurement surface, covering the surface of the range along a continuous path for scanning to approximate. Measuring instruments are measured during each scan, the average normal sound intensity component and the mean square sound pressure. Scanning operation can be achieved manually or by mechanical means. Octave band or limited band -weighted sound power level is measured 1/3 octave band values ??to calculate. This method can be used to determine the stability of the measuring face with any of the sound source, the surface of this measurement, the measured apparent sound source and the other external sound source generates sound is stable in time. Range of the noise source measured by the measuring surface to define the selection. This method can be used to meet all the relevant requirements of this section specified test environment. Appendix C describes this part of the acoustic power measurement to be performed with the auxiliary test, the measurement results are used to evaluate the quality of sound power level of accuracy. If the measured quality can not meet the requirements of this section, the measurement process should be amended in accordance with the method specified. This section does not apply to the measured sound power source is negative for any band. This section can be used for any of the following sources of noise in the environment: With the time change does not lead to sound intensity measurement accuracy drops to an unacceptable situation, sound intensity probe will not encounter speed large or unstable flow conditions unacceptable (see 5. 2. 2, 5. 3 and 5. 4). In some cases, the measurement conditions are not too bad suppliers

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