

ICS 33.160.01

CCS M 60



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

GB/T 17147-2012

Replacing GB/T 17147-1997

**Measurement of audio-frequency noise voltage level in sound
broadcasting**

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Foreword

This standard rule according to GB/T 1.1-2009 given draft.

This standard replaces GB/T 17147-1997 "sound broadcasting audio noise level measurements."

This standard and GB/T 17147-1997 compared to the main technical changes are as follows.

--- Weighted network in the frequency response 31500Hz by -47.7dB to -42.7dB (see Table 1);

--- Adds a new level to achieve noise measurement weighting network circuit (see Appendix A).

This standard uses the translation method is equivalent to using ITU-RBS.468-4.2002 "sound broadcasting audio noise level measurements."

This standard made the following editorial changes.

--- Increasing the Code chapter;

--- Increased by reference.

This standard was proposed by the State Administration of Radio, Film and Television.

This standard by the National Film and Television Broadcasting Standardization Technical Committee (SAC/TC239) centralized.

This standard was drafted. the State Administration of Radio, Film Radio and Television Planning Institute.

Drafters of this standard. any instrument, Marvin, Cui Junsheng, Xiao Hui, Zhang Qian.

Sound broadcasting audio noise level measurement

1 Scope

This standard specifies the sound broadcasting audio noise level measurement method for

the desired weighting network features, characteristics and measurement instruments
Measurement methods.

This standard applies to audio production, sound recording and reproducing system and audio broadcasting system measurement noise level.

2 Code

The following codes apply to this document.

dBqps

Taken as a reference voltage of 0.775V RMS, quasi-peak noise meter with a weighted measure (sound program transmission weight), expressed in decibels of the absolute Voltage level.

[GB/T 3383-1982,2.12]

3.1 weighted network

Measurements should be selected in line with the requirements of this quasi-peak meter, such as the use of weighted networks, it should also be used in line with the requirements of this weighting

The internet.

Figure 1 shows the circuit diagram of the weighting network, Figure 2 shows the nominal frequency weighting network response curve. Table 1 shows at different frequencies

Response values. Tolerance response curve and the nominal curve and weighted by the amplifier network of measuring equipment between FIG. 3, Table

The last column gives 1.

When used with 3.1 audio noise weighting network measurements, measuring instruments comply with 3.2 should be a quasi-peak table using any

What other instruments (such as the root mean square value tables) for such measurements would cause the measured signal to noise ratio is not directly related to the use of the standard instrument characteristics

The table compares the measured SNR.

Instrumentation (including weighting network) at 1kHz at calibration, see 3.2.6.

1 simple form of weighting network

Component values \u200b\u200btolerance and maximum 1% tolerance (1000Hz 10000Hz

in the Q value of not less than 200, to meet given in Table 1

And the difference between the response of 6300Hz at, or by changing capacitor 33.06nF more precisely adjusted through the use of active filter).

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