

**GB/T 15279-94  
 (Code 6744)**

Acoustic measurements for analog telephones according to GB/T 15279-94 (China)

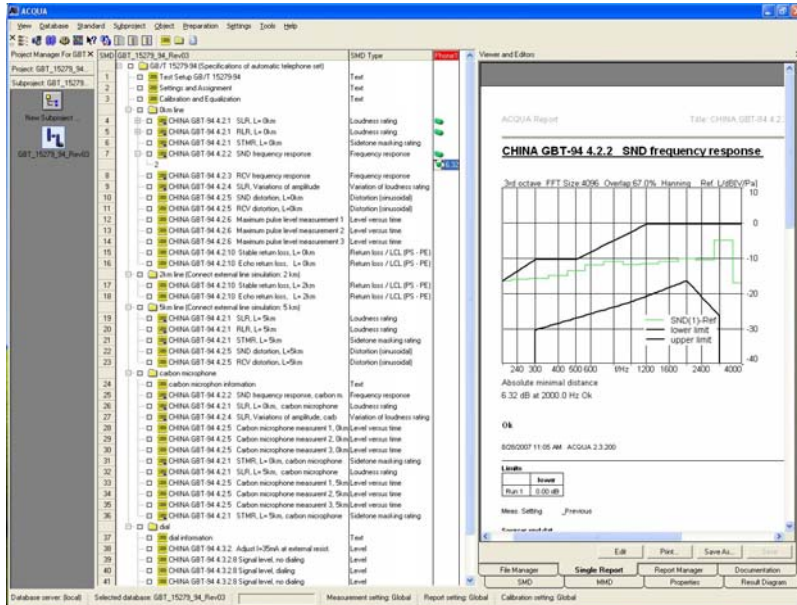
**Overview**

The Chinese specification GB/T 15279-94 defines among other things the technical requirements and testing methods of analog telephones. It applies to the following types of telephones:

- with rotary dialing
- with push-button and pulse
- with push-button and DTMF

Other kinds of telephones connecting to the public telephone network can also use it as a reference, such as e.g. hands-free or loudspeaking telephones.

The acoustic measurements specified by GB/T 15279-94 have been implemented into an automated test suite for the communication quality analysis system ACQUA.



ACQUA User Interface for GB/T 15279-94

**DESCRIPTION**

The acoustic measurements of analog telephones defined by the Chinese specification GB/T 15279-94 have been implemented into a corresponding measurement standard for the communication quality analysis system ACQUA by HEAD acoustics.

The measurements can be modified or extended if required in order to conduct additional tests. The tests can be combined in any way to create individual test sequences.

Combined with the advanced communication quality analysis system ACQUA and the front end MFE III.1, the GB/T 15279-94 test suite with its predefined measurement descriptors and automated measurement sequences allows the fast and easy acquisition, analysis and documentation of measurement data according to the Chinese specification requirements.

**APPLICATIONS**

- **Automated acoustic analysis** of analog telephone sets according to Chinese specification GB/T 15279-94

**MEASUREMENTS**

The following is a list of the measurements included in the GB/T 15279-94 test suite (numbering according to specification):

- 4.2.1 Loudness Ratings SLR
- 4.2.1 Loudness Ratings RLR
- 4.2.1 Sidetone masking rating
- 4.2.2 Frequency response in send direction
- 4.2.3 Frequency response in receive direction
- 4.2.4 Amplitude characteristics in send direction
- 4.2.5 Distortion factor in send direction
- 4.2.5 Noise level in send direction, carbon microphone
- 4.2.5 Distortion factor in receive direction
- 4.2.6 Maximum pulse level
- 4.2.10 Echo measurements
- 4.3.2.8 Attenuation of DTMF signals
- 4.3.2.9 Sidetone level during dialing
- 4.3.3 b.Noise with pulse dialing

**SYSTEM REQUIREMENTS**

GB/T 15279-94 requires the following system components:

- **ACQUA** Communication Analysis System as one of the following versions:
  - Standard (Code 6810)
  - Standard Workplace (Code 6830, for analysis only)
  - Compact Systems (Code 6860.xx)
- **MFE III.1** Measurement Front End (Code 6201)
- **External Line Simulation (China)** (not available from HEAD acoustics)

**DELIVERY**

- **GB/T 15279-94** (Code 6744), as ACQUA database on CD
- **Keyfile** on CD
- **Manual**

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