



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

**GB/T 14617.1-2012**

Replacing GB/T 14617.1-1993

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**Propagation characteristics in land mobile service and fixed  
service - Part 1: Propagation characteristics in land mobile  
service**

陆地移动业务和固定业务传播特性 第1部分：陆地移动业务传播特性

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## Foreword

GB/T 14617 "land mobile service and fixed service propagation characteristics" is divided into three parts.

--- Part 1. Propagation characteristics in land mobile service; Part

--- Article 2. 100MHz ~ 1000MHz fixed service propagation characteristics;

--- Part 3. sight radio relay communication system propagation characteristics. This section GB/T Part of 114,617. This section drafted in accordance with GB/T 1.1-2009 given rules. This Part replaces GB/T 14617.1-1993 "land mobile service and fixed service propagation characteristics of the first part. land mobile service Propagation characteristics. " This

portion of the GB/T 14617.1-1993 compared, in addition to editorial changes outside the main technical changes are as follows:

--- Edit "Subject Matter and Scope 1" to "1" and (see Chapter 1, Chapter 1 of the 1993 edition);

--- Edit "2 reference standard" is "

2 Normative references", and modify the text description and an increase in this section have been referenced in Regulation Normative reference file name (see Chapter 2, 1993 edition of the Chapter 2);

--- Edit "3 definition of" is "

3 Terms and Definitions", and according to the recently amended section deletions corresponding content (see Chapter 3, 1993 edition Chapter 3);

--- Reference ITU-RP.1406-1 (2007) proposed to amend the latest "change place with 6.2 standard deviation" in the relevant formula (see . 62, 1993 edition 6.1);

--- Reference ITU-RP.1406-1 (2007) recommended that the latest changes to the " 6.3 standard deviation change over time" in Table 1 up Charge (see 63, 1993 version 6.2.);

--- Edit "Appendix A ~ Appendix C 'supplement' and 'Reference member'" as "informative annex" can be read as an extension of the body content (See Appendix A ~ Appendix C, 1993 edition of Appendix A ~ Appendix C);

## 1 Scope

GB/T 14617.1-2012 is the Chinese national standard on propagation characteristics in land mobile service and fixed service - part 1: propagation characteristics in land mobile service. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2012 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 June 2013. Classification: ICS (ICS) , CCS M30. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

GB/T 14617 in the provisions of this part of the 150MHz ~ 3000MHz band land mobile services propagation prediction methods, including field strength Prediction mode, the prediction mode interference, coverage prediction methods and coordination distance

calculation. This section applies to 150MHz ~ 3000MHz band land mobile communications network planning, system design, spread spectrum management prediction.

## 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.

GB/T 14431 radio services desired signal/interference protection ratios and minimum usable field strength

## 3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Downtown urbanarea Intensive than 10m tall buildings and the building of two or more towns, community, or two or more clouds and buildings more than 10m thick Large village woods.

3.2 Suburb suburbanarea Scattered buildings, small buildings and trees in general villages, where the mobile station at the time of travel, there are some near the barrier, but a barrier is not serious.

3.3 Rural roads ruralroad Only thin roadside trees and scattered houses roads.

3.4 Open area openarea Farmland and open space and the like, it does not impede the sight of any feature in 300m ~ 400m wide near field, also in the entire propagation path Few tall trees or buildings blocking.

3.5 Forest forestedarea In the aspect 300m ~ 400m above the scope of 10m height above the jungle area.

3.6 Quasi-smooth terrain quasi-smoothterrain Height fluctuations within 20m, change is slow and the average height difference between the ground no more than 20m terrain.