ICS 33.060.30
CCS M30

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 14617.2-2012

Replacing GB/T 14617.2-1993

Propagation characteristics in land mobile service and fixed service - Part 2: Propagation characteristics for the terrestrial fixed service in 100 MHz1 000 MHz

陆地移动业务和固定业务传播特性 第2部分：100 MHz～1 000 MHz固定业务传播特性

Issued on: December 31, 2012 **Implemented on: June 1, 2013**

Issued by: General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China;
Standardization Administration of China

Table of Contents

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 is Part 2 GB/T 14617 in. Rules in this section in accordance with GB/T 1.1-2009 given draft. This Part replaces GB/T 14617.2-1993 "land mobile service and fixed service propagation characteristics of the second part. 100 ~ 1000MHz fixed service propagation characteristics. "This part of GB/T 14617.2-1993 compared to the major technical changes in addition to editorial changes outside 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 increasing demand in this standard references The standard name (see Chapter 2, Section 2 of the 1993 edition);

--- Edit "3 definition of" is "

3 Terms and definitions" (see Chapter 3, Section 3 of the 1993 edition);

4.2 h1, h2 definition (see 42, 1993 version 4.2.);

4.3 modify the formula (13), formula (15) to (23), and Figures 2, 3, and modify the corresponding text description (see 4.3, 1993 Version 4.3);

5.2.4 modify the formula (25) to (33), and modify the corresponding text description [see 5.2 4, 1993 edition of 5.2.1.1.3 Of formula (26) to (35)];

--- Increase in d, f definition 5.3.1 (see 524, 1993 edition 5.2.1.2.1.);

--- Increase in d, f definition 7.3.3 (see 733, 1993 version 7.3.3.);

1 Scope

GB/T 14617.2-2012 is the Chinese national standard on propagation characteristics in land mobile service and fixed service - part 2: propagation characteristics for the terrestrial fixed service in 100 mhz1 000 mhz, in the field of telecommunications and audio-video engineering. 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 33.060.30, 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.

This section GB/T 14617 provisions of the propagation characteristics of the work in the 100MHz ~ 1000MHz fixed service, including line of sight Spread over the horizon propagation, interference analysis and dissemination of forest calculation. This section applies to 100MHz ~ 1000MHz within small and medium-capacity analog communication systems and digital communication systems.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article Member. Undated version of the latest edition (including any amendments) applies to this document.

GB/T 14617.3-2012 land mobile service and fixed service propagation characteristics - Part 3. Biography sight radio relay systems Broadcast properties

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Radio horizon radiohorizon Straight ray emitted from the radio point sources (taking into account the effects of refraction) track the Earth's surface and tangent points.

3.2 Sight propagation line-of-sightpropagation Direct line and obstacles on the ground there is sufficient clearance and negligible spread between its two o'clock diffraction effects.

3.3 BVR spread trans-horizonpropagation Tropospheric propagation near the ground transmitter and receivers beyond the horizon point between the radio.

3.4 Tropospheric scatter propagation troposphere-scatterpropagation By means of tropospheric refraction scattering inhomogeneity and discontinuities caused by the index formed by tropospheric radio wave propagation.

3.5 Equivalent Earth radius factor effectiveearth-radiusfactor The equivalent ratio of the radius of the Earth and the Earth's radius. The vertical gradient coefficient and refractive index of the radius of the Earth with a related real.