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

GB/T 15844.1-1995

**General specification for professional radio transceiver
employing F3E emission in the mobile services
(English Translation)**

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and Definitions, Abbreviations
3.1 Terms and definitions
3.2 Abbreviations
4 Categories and specifications
4.1 Classification
4.2 Specifications
5 Technical rules
5.1 General requirements
5.2 Job Requirements
5.3 Transmitter electrical performance requirements and measurement methods
5.4 Receiver electrical performance requirements and measurement methods
5.5 Repeater Performance Requirements and Measurement Methods
5.6 Function
5.7 Security
6 Environmental adaptability and test methods
6.1 Environmental Test Requirements
6.2 Environmental Test Requirements
6.3 Rules for carrying out the test
6.4 Test Procedure
6.5 Test items and order
6.6 Test Methods
7 Inspection Rules
7.1 Test classification
7.2 Appraisal test
7.3 Quality consistency test
8 Logo and operating instructions
8.1 Mark
8.2 Power mark
8.3 Operating Instructions

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 15844.1-1995 "mobile communication FM radiotelephone general technical conditions", GB/T 15844.2-1995 "Mobile communication FM radiotelephone environmental requirements and test methods" and GB/T 15844.4-1995 "mobile communication FM radiotelephone Machine Quality Assurance Rules. " this standard GB/T 15844.1-1995, GB/T 15844.2-1995 and GB/T 15844.4-1995 revised and integrated into as follows.

- Standard name "FM radio telephone" to "professional FM transceiver";
- Added "classification and specifications" (see Chapter 4);
- Modify the technical requirements for power supply (see 5.1.2 and 5.1.3, GB/T 15844.1-1995 of 5.1.5 and 5.1.9);
- Modify the continuous launch of various types of professional FM state requirements (see 5.2.3, GB/T 15844.1-1995 of 5.1.11);
- Transmitter electrical properties, increase the transmitter intermodulation attenuation, transmitting instantaneous frequency characteristics; Modify the carrier frequency tolerance, modulation audio Distortion, modulation characteristics, adjacent channel power (see 5.3, GB/T 15844.1-1995 of 5.2);
- In the receiver electrical properties, modify the reference sensitivity, squelch sensitivity and squelch adjustment range, audio distortion, audio response, a total of letters Road suppression, blocking, adjacent channel selectivity, spurious response immunity, intermodulation immunity (see 5.4, GB/T 15844.1-1995 5.3);
- Increased transmitter electrical properties, receiver electrical properties of the definition and measurement methods (see 5.3 and 5.4);
- Increasing the performance requirements of transponders and their measurement methods (see 5.5 and Appendix A);
- Modify the environmental test requirements and methods (see Chapter 6, GB/T 15844.1-1995 5.5 and Chapter 6, GB/T 15844.2-1995 Chapter 3, Chapter 4, Chapter 5);
- Modify the "test rules" (see Chapter 7, GB/T 15844.4-1995 Chapter 4, Chapter 5, Chapter 6);
- Added "logo, manual" (see Chapter 8);
- Added product storage related content (see 9.3).

Please note that some of this document may be patentable. The issuing agencies of this document do not bear the responsibility of identifying these patents.

This standard by the People's Republic of China Ministry of Industry and Information Technology (E) centralized.

This standard is mainly drafted by. China Electronics Technology Corporation seventh Institute.

Participated in the drafting of this standard. National Radio Monitoring Center, Guangdong Provincial Radio Monitoring Station, Motorola (China) Electronics Co., Ltd., Beijing Darin Ruikang Communications Co., Ltd., Shenzhen City, easy Autopass Technology Co., Ltd. Branch Electronics (Shenzhen) Co., Ltd. Quanzhou North Peak Telecommunications Equipment Co., Ltd., Shenzhen Youlil Technology Co., Ltd., Mobile Communications National Engineering Research Center.

1 Scope

This standard specifies the use of FM (F3E) professional FM transceiver in the mobile communications professional wireless communications system (the following Jane Said the professional FM) classification and specifications, technical requirements, test methods, product inspection rules, as well as signs, instructions, packaging, transportation, Storage, also provides a professional FM analog channel for data transmission technology requirements.

This standard applies to land, inland or coastal mobile communications professionals (wireless) network working frequency is 25MHz ~ 1000MHz, Transmitter RF output power is not more than 50W all kinds of professional FM, FME mobile communications in line with other F3E transceiver can also be reference According to the implementation.

2 Normative references

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

GB/T 191-2008 Packaging - Pictorial signs GB/T 2423.16-2008 Environmental testing for electric and electronic products Part 2. Test methods Test J and guidance.

GB/T 2423.17-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Ka. Salt spray GB/T 2423.18-2012 Environmental testing - Part 2. Test methods Test Kb. Salt spray, alternating (sodium chloride solution) GB/T 2424.10-2012 Environmental testing General guidance for accelerated atmospheric corrosion tests GB/T 2828.1-2012 Sampling procedures for inspection - Part 1. batch acceptance inspection by acceptance quality limit (AQL) sampling plan GB/T 2829-2002 periodic inspection count

sampling procedures and tables (for the stability of the test process) GB/T 9969.1-2008
General instructions for use of industrial products Mobile communication - FM
radiotelephone transmitter measurement methods Mobile communication - Methods of
measurement for receivers of frequency modulated radiotelephones GB/T 12193-1990
GB/T 13262-2008 Percentage of nonconforming articles Counting standard one-time
sampling inspection program and sampling table General principles of industrial product
assurance documents GB/T 14436-1993 Mobile communication equipment - Safety
requirements and test methods General specification for shortwave single sideband
communication equipment Electromagnetic compatibility (EMC) testing and measurement
techniques Electrostatic discharge (IMD) immunity test

3.1 Terms and definitions

The following terms and definitions apply to this document.

3.1.1

Professional (wireless) network professional (radio) network for the unit sector (social public safety, government agencies, business units) to command and dispatch business-based fast-connect mobile Letter network. Most of the network has a command, scheduling, management center.