

TEST REPORT

Product Name : Intelligent Vehicle Terminal
Model Number : JPCR

Prepared for : Guangzhou ZTINFO Technology Co., Ltd.
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Modified Information

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2606230015W00201R	/	Original Report

TEST RESULT CERTIFICATION

Applicant : Guangzhou ZTINFO Technology Co., Ltd.
Address : 7th Floor, 14 Kehui 1st Street, 99 Science Avenue, Huangpu District, Guangzhou, China
Manufacturer : Guangzhou ZTINFO Technology Co., Ltd.
Address : 7th Floor, 14 Kehui 1st Street, 99 Science Avenue, Huangpu District, Guangzhou, China
EUT : Intelligent Vehicle Terminal
Model Name : JPCR
Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
ARIB STD T-66 Article 9	PASS

The device described above is tested by EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and EMTEK (SHENZHEN) CO., LTD. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the ARIB STD T-66 Ver.3.6 requirements.

Measurement was conducted by the following test method:

the test method of Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex "43" of Article 88, Paragraph 1 or the test method more than equivalent.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (SHENZHEN) CO., LTD.

Date of Test : _____

Prepared by : _____

Reviewer : _____

Approved & Authorized Signer : _____

1. EUT TECHNICAL DESCRIPTION

1.1 Product Description

Characteristics	Description
Product:	Intelligent Vehicle Terminal
Model Number:	JPCR
Variant Number:	N/A
Bluetooth Version:	BLE V5.0
Data Rate:	1Mbps, 2Mbps
Modulation:	GFSK
Operating Frequency Range(s):	2402-2480MHz
Number of Channels:	40 Channels for Bluetooth-LE
Rated Antenna power:	3 mW
Antenna Type :	Internal antenna
Antenna Gain:	2.96 dBi (Note: The antenna information is provided by the customers, which will have a certain impact on the test results.)
Power Supply:	DC 12V
Temperature Range:	-20°C ~ +75°C
Software Version:	N/A
Hardware Version:	N/A

Note: For more details, please refer to the user's manual of the EUT.

2. EUT TECHNICAL DESCRIPTION

2.1 Facilities

All measurement facilities used to collect the measurement data are located at Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4.

2.2 Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged wave guide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

2.3 Laboratory accreditations and listings

Site Description
EMC Lab.

: The Certificate Registration Number is L2291
The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

3m Chamber #1

: Certificated by VCCI, Japan
Registration No.: R-12777
Registration No.: G-20141

10m Chamber

Certificated by VCCI, Japan
Registration No.: R-14410

Shielding Room #1

: Certificated by VCCI, Japan
Registration No.: C-13065
Registration No.: T-11318

Name of Firm

: EMTEK (SHENZHEN) CO., LTD.

Site Location

: Building 69, Majialong, Industry Zone, Nanshan District, Shenzhen, Guangdong, China

3. System Test Configuration

3.1 EUT Configuration

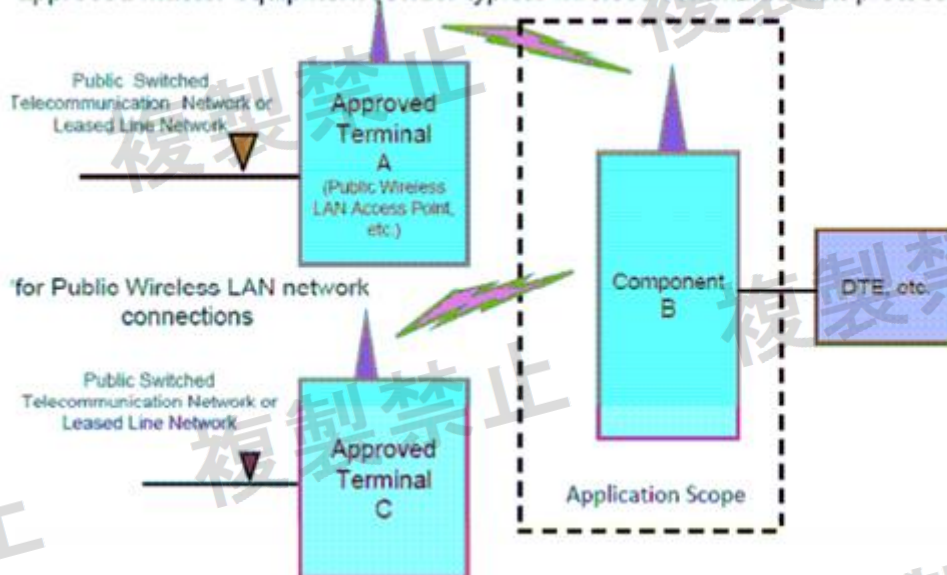
The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

Under typical wireless communication protocol, the terminal equipment shall be approved as the slave equipment which connects to the existing approved master equipment.

3.2 The Connection System Diagram

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Case 3: In case of Client Terminal (component B) which connects to the existing approved Master equipment (Under typical wireless communication protocol)



3.3 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
1	Tablet PC	Logitec	Endeavor TN22	N/A	N/A	EUT 2

Note:

- (1) Unless otherwise denoted as EUT in 『Remark』 column , device(s) used in tested system is a support equipment.

4. INSTRUMENT AND CALIBRATION

4.1 Measuring Instrument Calibration

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2 Measurement Equipment used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Calibration Body	Calibration Method
Wideband Radio Communication Tester	R&S	CMW500	171168	2025/9/9	1 Year	LISAI	(c)
Frequency Extender	R&S	CMW-Z800 A	100430	2025/9/9	1 Year	LISAI	(c)
Spectrum Analyzer	R&S	FSV3044	101289	2025/12/16	1 Year	LISAI	(c)
Analog Signal Generator	R&S	SMB100A	183237	2025/9/9	1 Year	LISAI	(c)
Vector Signal Generator	R&S	SMM100A	101808	2025/9/9	1 Year	LISAI	(c)
RF Control Unit	Tonscend	JS0806-2	22C806056 7	2025/9/9	1 Year	LISAI	(c)
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2026/5/8	1 Year	LISAI	(c)

Remark:

(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).

(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c).

From JRL Article 24-2, paragraph 4, Item 2

Notice: Calibration duration for above equipments is 1 year.

5. Description of test modes

The EUT has been tested under normal operating condition.

The following test mode was scanned during the preliminary test:

Mode: TX, RX

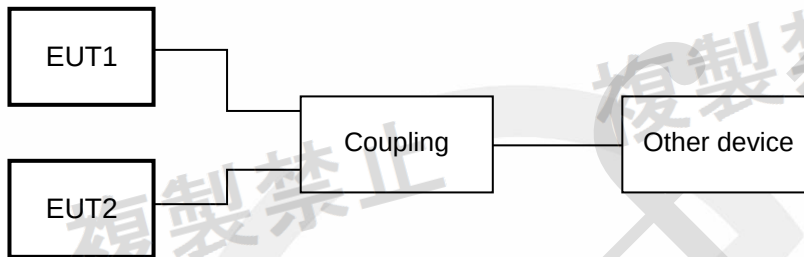
Then, the EUT configuration and cable configuration of the above highest emission mode was recorded for all final test items

6. Identification Code

6.1 Measurement Procedure

- Prepare two devices that has different ID.
- Register only EUT(1) with Access Point. (Enable a MAC address Filtering function of Access Point and set only EUT(1) to admit a communication.)
- Establish a communication between EUT(1) and Other device by infrastructure mode.
- Check a Mac address (48bits) of EUT(1) by Access Point and record. Try to establish a connection between EUT(2) and Other device, and confirm they are not established a communication.

6.2 Test SET-UP (Block Diagram of Configuration)



6.3 Measurement Result

For WLAN :

Mac Address	
EUT(1)	/
EUT(2)	/
Note:	
Did the EUT(1) establish a communication channel? Yes	
Did the EUT(2) establish a communication channel? No	

For Bluetooth:

Mac Address	
EUT(1)	E4:66:E5:28:D1:60
EUT(2)	/
Note:	
Did the EUT(1) establish a communication channel? Yes	
Did the EUT(2) establish a communication channel? No	

7. Carrier Sensing

7.1 Measurement Procedure

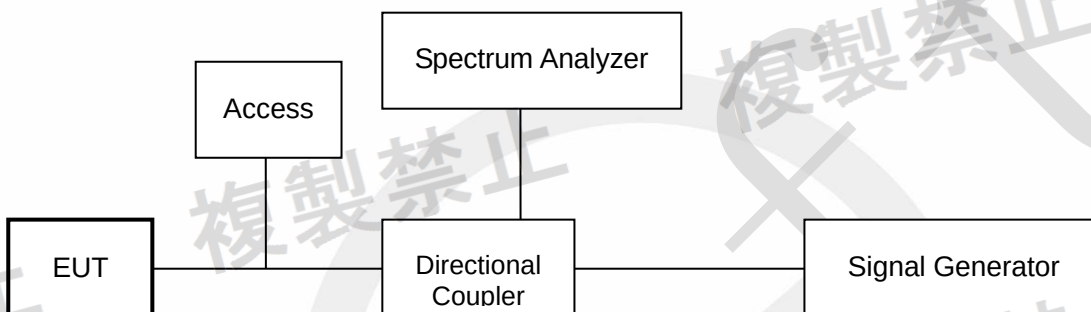
- Link EUT and Access Point to Directional Coupler input port.
- Link Signal Generator and Spectrum Analyzer to test port and output port in the Directional Coupler separately.
- A positive Peak Detector function in Spectrum Analyzer must be used.
- Set the Span to Zero.

Press the Signal Generator on and it will output the Carrier Signal. When the Link breaks off, wait a minute and press the Signal Generator off. After a while, reset the Link and done the test.

G: Antenna Gain

F: operation frequency

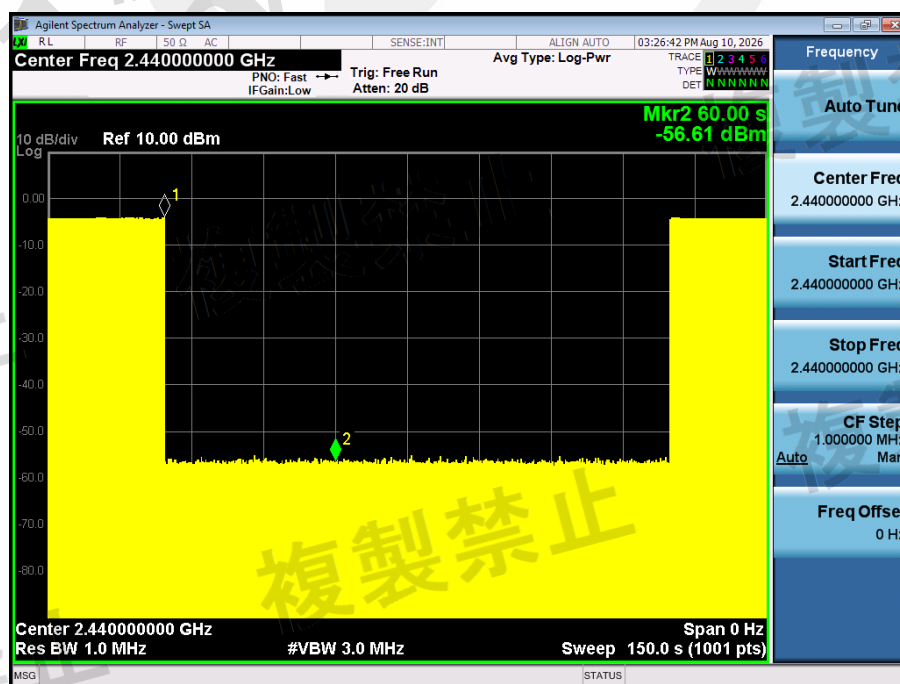
7.2 Test SET-UP (Block Diagram of Configuration)



7.3 Measurement Result

Carrier Sense

Result	Normal Voltage	High Voltage	Low Voltage
	Pass	Pass	Pass



8. Measurement Uncertainty (95% confidence levels)

Item	Uncertainty
Uncertainty for Conduction Spurious emission test	2.10dB
Uncertainty for Output power test	0.83dB
Uncertainty for Power density test	1.85dB
Uncertainty for Frequency range test	1×10^{-9}
Uncertainty for Bandwidth test	1×10^{-9}

9. APPENDIX - PHOTOGRAPHS OF TEST



10. APPENDIX PHOTOGRAPHS OF EUT

Please refer to the file of External Photo and Internal Photo.

--- End of Report ---