

RADIO TEST REPORT

For

Shenzhen Sensishangpin Electronic Technology Co., Ltd.

remote control

Test Model: GFLS01

Prepared for : Shenzhen Sensishangpin Electronic Technology Co., Ltd.
Address : Room 238, Building A, Chang'an Zhigu, Annex of No. 199
Shajiang Road, Xitou Community, Songgang Sub-district,
Bao'an District, Shenzhen City

Prepared by : Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : April 23, 2026
Number of tested samples : 2
Sample No. : C260422005-1, C260422005-2
Serial number : Prototype
Date of Test : April 23, 2026 ~ May 08, 2026
Date of Report : May 09, 2026

RADIO TEST REPORT**ARIB STD-T93**

315 MHz-BAND TELEMETER, TELECONTROL AND DATA TRANSMISSION RADIO EQUIPMENT FOR
SPECIFIED LOW-POWER RADIO STATION

Report Reference No. : LCSC04226005EA

Date of Issue..... : May 09, 2026

Testing Laboratory Name..... : Guangzhou LCS Compliance Testing Laboratory Ltd.

Address..... : No.44-1, Qianfeng North Road, Shiqi, Panyu District,
Guangzhou, Guangdong, China

Testing Location/ Procedure.... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □

**Applicant's Name..... : Shenzhen Sensishangpin Electronic Technology Co.,
Ltd.**

Address..... : Room 238, Building A, Chang'an Zhigu, Annex of No. 199
Shajiang Road, Xitou Community, Songgang Sub-district,
Bao'an District, Shenzhen City

Test Specification

Standard..... : ARIB STD-T93
Article 2, Paragraph 1, Item 8

Test Report Form No..... : TRF-4-E-222 A/0

TRF Originator..... : Guangzhou LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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Test Item Description..... : remote control

Trade Mark..... : N/A

Test Model..... : GFLS01

Ratings..... : Please Refer to Page 6

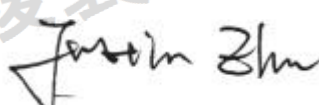
Result : **PASS**

Compiled by:



Lifeng Le/ Administrators

Reviewed by:



Justin Zhu/ Technique Director

Approved by:



Gavin Liang/ Manager

RADIO -- TEST REPORT

Test Report No. : LCSC04226005EA	May 09, 2026 Date of issue
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Test Model.....	: GFLS01
EUT.....	: remote control
Applicant.....	: Shenzhen Sensishangpin Electronic Technology Co., Ltd.
Address.....	: Room 238, Building A, Chang'an Zhigu, Annex of No. 199 Shajiang Road, Xitou Community, Songgang Sub-district, Bao'an District, Shenzhen City
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen Sensishangpin Electronic Technology Co., Ltd.
Address.....	: Room 238, Building A, Chang'an Zhigu, Annex of No. 199 Shajiang Road, Xitou Community, Songgang Sub-district, Bao'an District, Shenzhen City
Telephone.....	: /
Fax.....	: /
Factory.....	: Shenzhen Sensishangpin Electronic Technology Co., Ltd.
Address.....	: Room 238, Building A, Chang'an Zhigu, Annex of No. 199 Shajiang Road, Xitou Community, Songgang Sub-district, Bao'an District, Shenzhen City
Telephone.....	: /
Fax.....	: /

Test Result	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	May 09, 2026	Initial Issue	---

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: remote control
Test Model	: GFLS01
Ratings	: DC 3V By Button Battery
Hardware Version	: /
Software Version	: /
315MHz	
Frequency Range	: 315MHz
Channel Number	: 1 channel
Declared Antenna Power (EIRP)	: 0.20mW
Modulation Technology	: OOK
Antenna Description	: PCB Antenna, -4.03dBi (Max.)

1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
--	--	--	--	--

1.3. External I/O Cable

I/O Port Description	Quantity	Cable
--	--	--

1.4. Description of Test Facility

CNAS Registration Number is L11555

A2LA Certificate Number: 5099.01

FCC Designation Number is CN1379

Test Firm Registration Number: 729882

1.5. Test Conditions

Temperature Range	:	21-25℃
Humidity Range	:	45-85%
Pressure Range	:	86-106kPa

1.6. Frequency of Channels

Channel	Frequency (MHz)
1	315

2. TEST METHODOLOGY

2.1. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

2.2. Measurement Uncertainty

Test Item		MU	Remark
Bandwidth	:	+/- 0.2 E-6	/
Antenna Power	:	+/-0.33dB	/
Frequency Tolerance	:	+/- 0.3 E-6	/
Conducted spurious emission	:	+/-0.13dB	/
DC Power	:	+/-1%	/

- (1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.3. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters:

Test Software Version	N/A
Frequency	315MHz
Power Control	Default

2.4. Description of Test Modes

Channel	Frequency (MHz)
1	315

2.5. Test Voltage

POWER SUPPLY VOLTAGE FLUCTUATION TEST

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input To EUT	DC 3V	DC 3.3V	DC 2.7V
Output To RF Module	DC 3.3V	DC 3.3V	DC 3.3V
Voltage Variation (%)	--	--	--

Note:

Note: As the EUT was powered by DC 3V, and with the voltage stabilizing circuit used, the chip voltage received floating not exceed $\pm 1\%$ of nominal condition when working on extreme voltage, so all test performed at nominal voltage only.

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in engineering mode.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

N/A.

3.4. Block Diagram/Schematics

Please refer to the related document.

3.5. Equipment Modifications

Guangzhou LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

4. SUMMARY OF TEST RESULTS

ARIB STD-T93 MIC Notice No.88 Appendix No.22.1		
Clause	Description of Test (Transmitter Parameters)	Result
3.2(1)	Output Power (EIRP)	PASS
3.2(2)	Output Power Tolerances	PASS
3.2(4)	Frequency Tolerance	PASS
3.2(10)	Occupied Bandwidth	PASS
3.2(11)	Spurious Emissions	PASS
3.2(5)	Modulation method	N/A
3.2(6)	Interference prevention function	PASS
3.2(7)	Modulation rate	N/A
3.2(12)	Restriction function of transmission Time	PASS
Receiver Parameters		
3.3(1)	Secondary Radiated Emissions	N/A
Note: 1. N/A is an abbreviation for Not Applicable. 2. Remote control only supports the transmission function.		

5. TEST RESULT

5.1. Output Power

5.1.1. Standard Applicable

Type	Limit
Output Power (EIRP)	312MHz - 315.05MHz: 0.25mW 315.05MHz - 315.25MHz: 0.025mW
Tolerance	+20% only

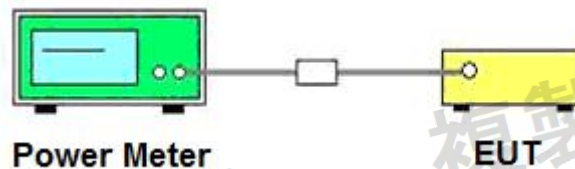
5.1.2. Measuring Instruments

Please refer to section 6 of equipments list in this report.

5.1.2. Test Procedures

EUT have transmitted continuous maximum power

5.1.3. Test Setup



5.1.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.5. Test Result

Temperature	24.3℃	Humidity	54.7%
Test Engineer	zhao xing hai	Test Voltage	Normal Voltage

Frequency (MHz)	Measured Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	EIRP Limit (mW)	Rated EIRP (mW)	Tolerance	Limit	Test Result
315	-3.39	-4.03	-7.42	0.18	0.250	0.20	-10.00%	<+20%	Pass

Remark:

$\text{EIRP (dBm)} = \text{Antenna Port Conducted Power (dBm)} + \text{Antenna Gain (dBi)}$

$\text{Tolerance} = (\text{EIRP (mW)} - \text{Rated EIRP (mW)}) / \text{Rated EIRP (mW)} * 100\%$

5.2. Frequency Tolerance

5.2.1. Standard Applicable

The transmitted frequency should be entirely between 312 to 315.25MHz.

5.2.2. Test Procedures

- Set EUT work in test mode as described in clause 2.4.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 10 KHz.

Video BW: 10 KHz.

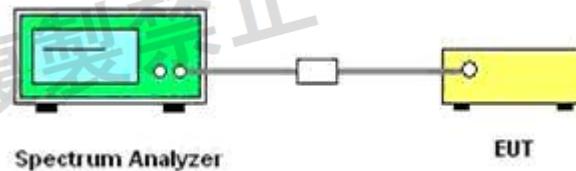
Span: 2MHz.

Detector: Peak.

Trace Mode: Max Hold.

- When the trace is complete, find the peak value of the power envelope and record.

5.2.3. Test Setup Layout



5.2.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

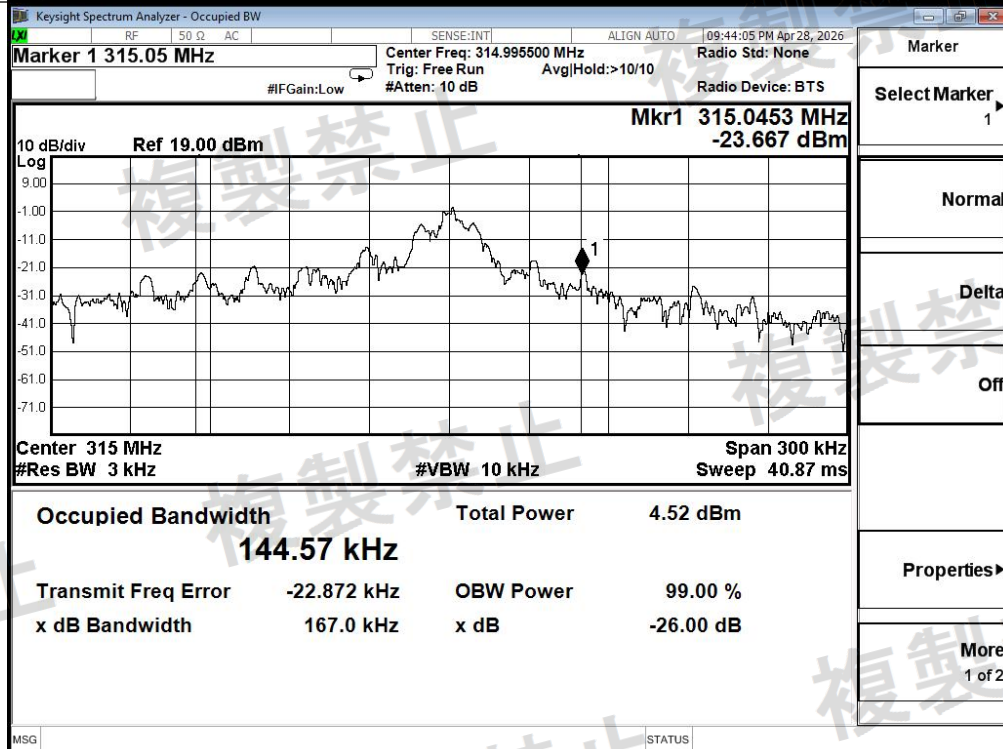
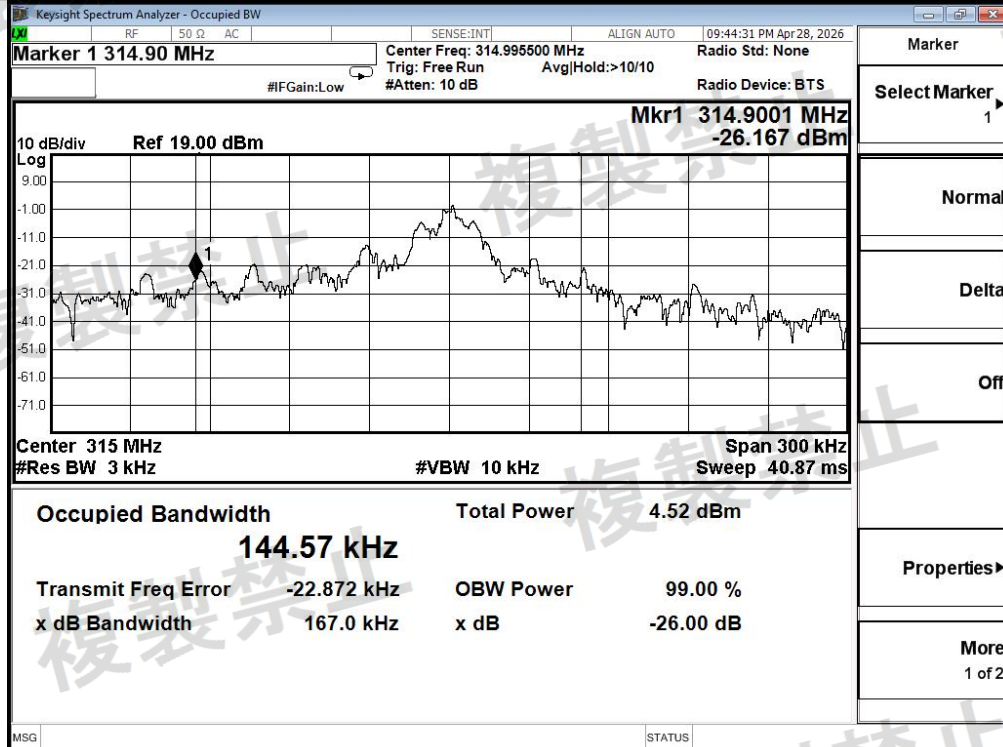
5.2.5. Test Result

Temperature	24.3℃	Humidity	54.7%
Test Engineer	zhao xing hai	Test Voltage	Normal Voltage

Frequency (MHz)	Measured (MHz)	FL (MHz)	FH (MHz)	Occupied Bandwidth (MHz)	Frequency Tolerance Limit (MHz)	Test Result
315	314.996	314.9001	315.0453	0.14457	312 to 315.25	Pass

Test Plot Of Frequency Tolerance

Test Voltage: Normal Voltage



315MHz

5.3. Occupied Bandwidth

5.3.1. Standard Applicable

The Occupied Bandwidth should be within 1MHz.

5.3.2. Test Procedures

- a. Set EUT work in test mode as described in clause 2.4.
- b. Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

RBW/VBW= 3KHz/10KHz

Span: Wide enough to cover the complete power envelope of the signal of the EUT.

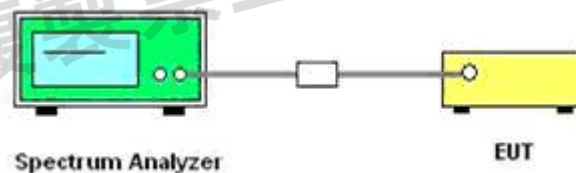
Sweep mode: Continuous sweeping.

Detector: Peak.

Trace Mode: Max Hold.

- c. When the trace is complete, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

5.3.3. Test Setup Layout



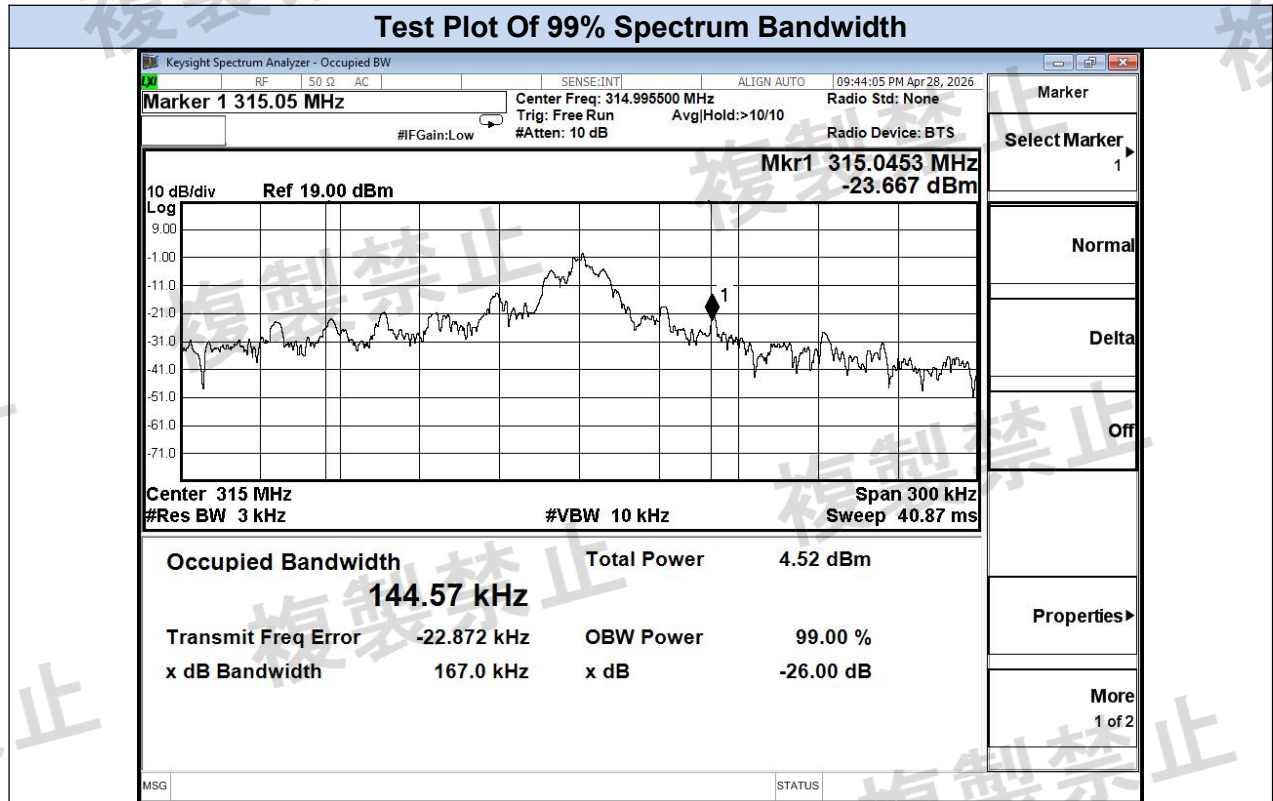
5.3.4. EUT Operation during Test

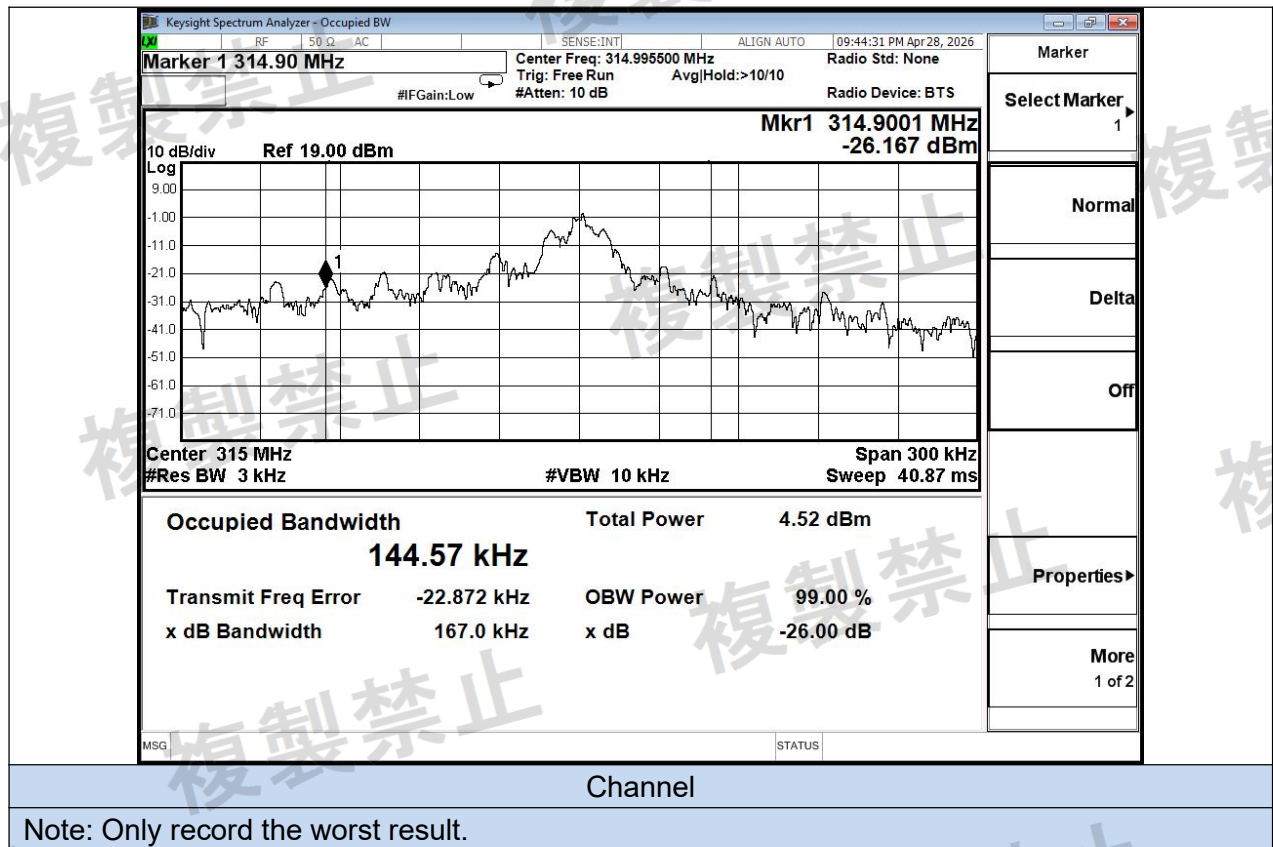
The EUT was programmed to be in continuously transmitting mode.

5.3.5. Test Result of 99% Spectrum Bandwidth

Temperature	24.3℃	Humidity	54.7%
Test Engineer	zhao xing hai	Test Voltage	Normal Voltage

Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)	Test Result
315	0.14457	1	Pass





5.4. Transmitter Spurious Emissions (conducted)

5.4.1. Standard Applicable

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

- | | |
|--|-----------------------|
| a. 30MHz - 312MHz and 315.25MHz – 1GHz | 250 nW/100kHz or less |
| b. 1GHz < f | 1 μ W/MHz or less |

5.4.2. Test Procedures

- Set EUT work in test mode as described in clause 2.4.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Below 1GHz: RBW/VBW= 100 KHz/ 100KHz

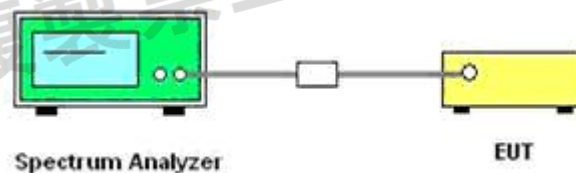
Above 1GHz: RBW/VBW= 1MHz / 1MHz.

Detector: Peak.

Trace Mode: Max Hold.

- All the emissions from 30MHz to 6GHz were measured and record.

5.4.3. Test Setup Layout



5.4.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

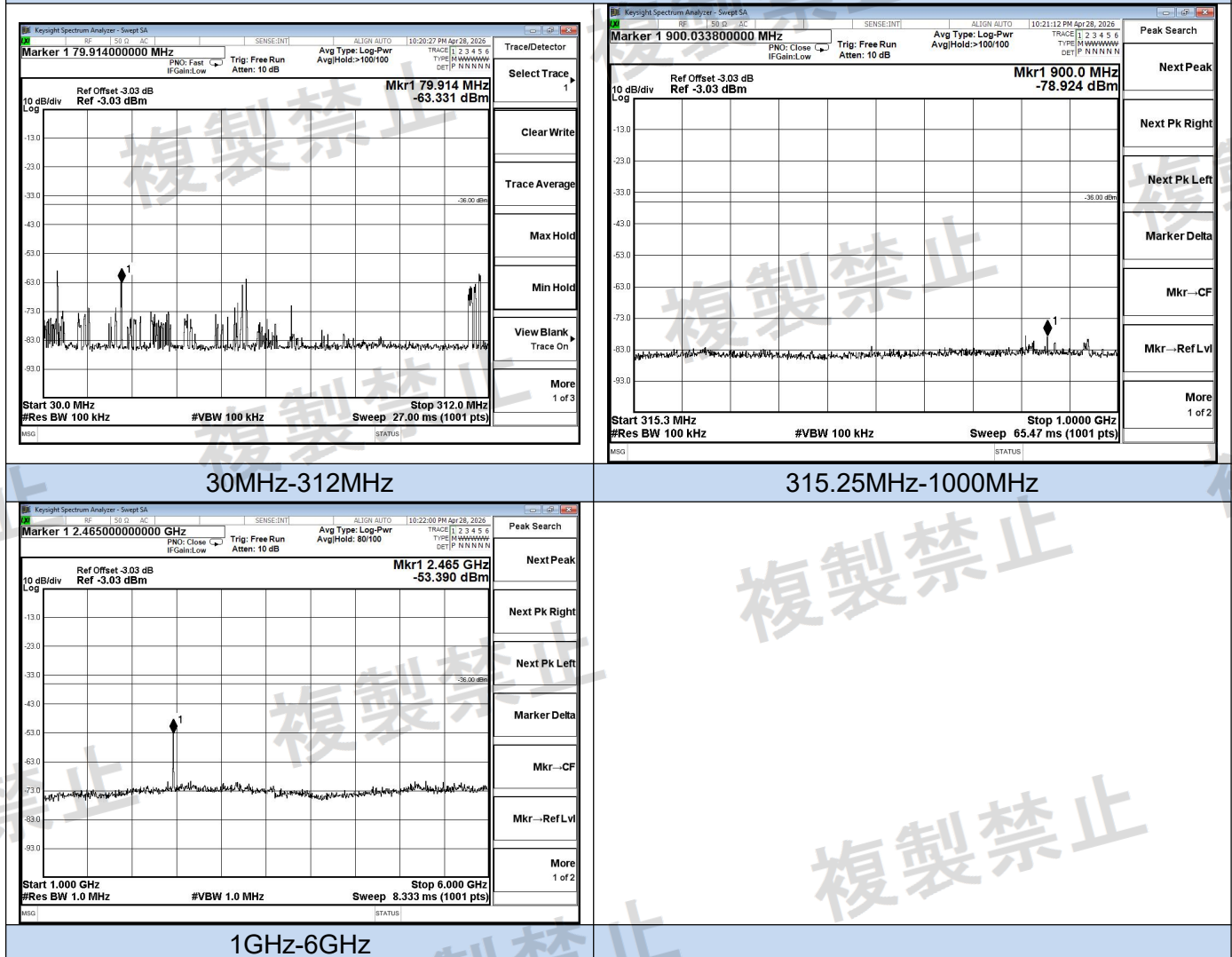
5.4.5. Test Results

Pass.

Note: The Antenna Gain is compensated in the offset.

Temperature	24.3℃	Humidity	54.7%
Test Engineer	zhao xing hai	Test Voltage	Normal Voltage

Test Plot Of Transmitter Spurious Emissions (conducted)



5.5. Restriction function of transmission Time

5.5.1. Standard Applicable

Transmit cyclically: Transmission Time (Once); within 1 second/Pause Time; over 10 second and over 30 times of "Transmission Time"

Not transmit cyclically: Transmission Time (Once); within 5 second/ Transmission Time (Once, Manual Case); within 90 second

5.5.2. Test Procedures

- Set EUT work in test mode as described in clause 2.4.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 100kHz.

Video BW: 300kHz.

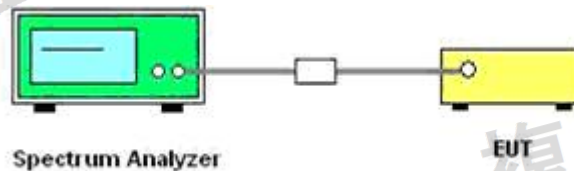
Span: Zero MHz

Detector: Peak.

Trace Mode: Max Hold.

- When the trace is complete, measure the sending time.

5.5.3. Test Setup Layout



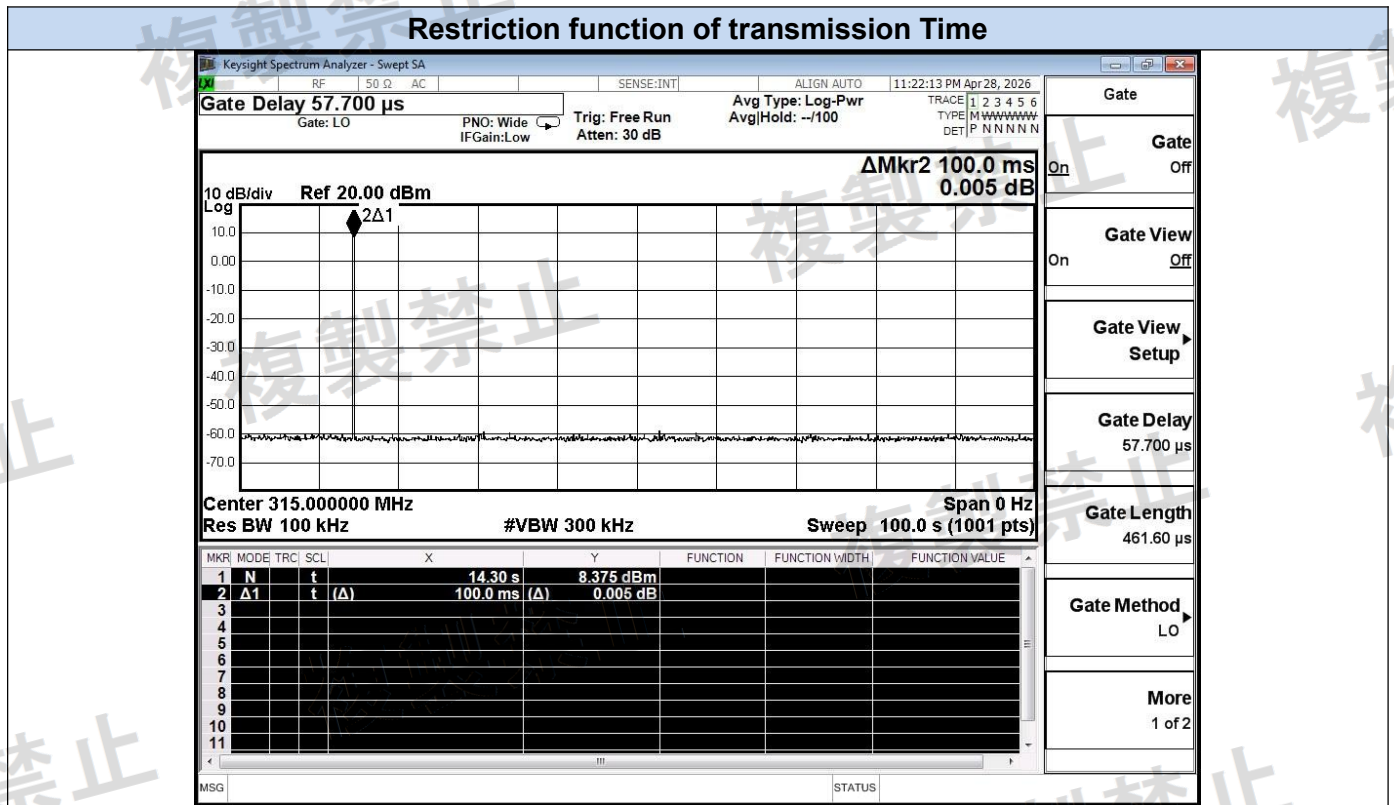
5.5.4. EUT Operation during Test

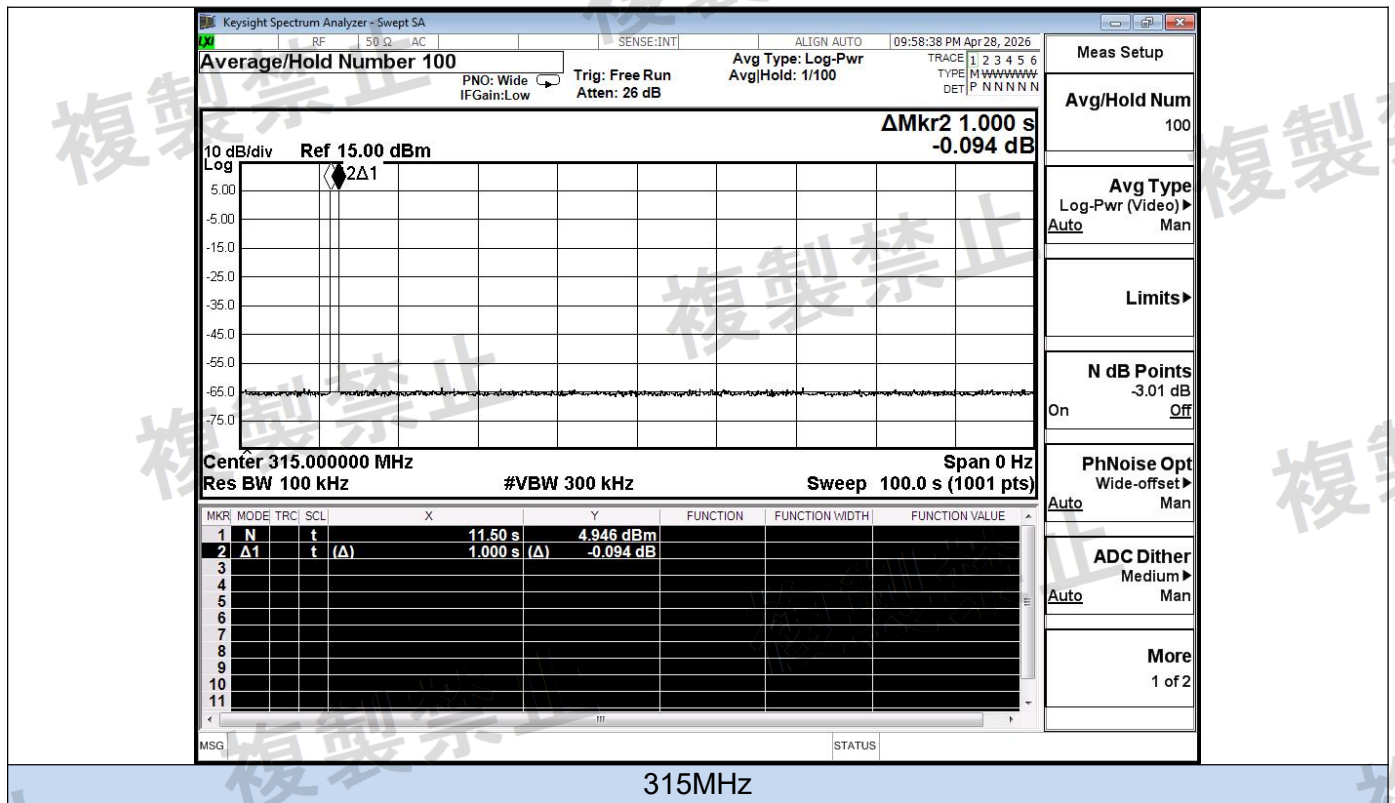
The EUT was programmed to be in continuously transmitting mode.

5.5.5. Test Results

Temperature	24.3℃	Humidity	54.7%
Test Engineer	zhao xing hai	Test Voltage	Normal Voltage

Frequency (MHz)	transmission Duration(s)	Limit(s)	Manual Case(s)	Limit(s)	Test Result
315	0.100	≤5	1.0	≤90	Pass





5.6. Interference prevention function

5.6.1. Standard Applicable

Item	Limits
Identification code	≥ 48 bits

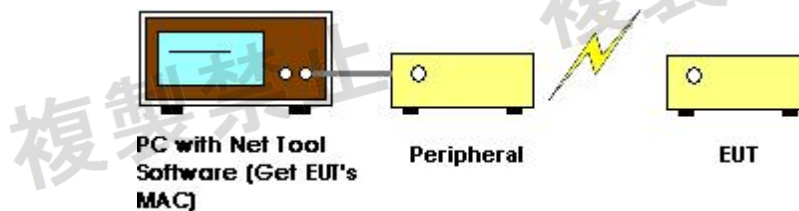
5.6.2. Measuring ID Code Software

PC with NetTool	Setting
MAC IP List	MAC Scan

5.6.3. Test Procedures

- In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the other signals than predetermined ID codes from the counterpart. d. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

5.6.4. Test Setup Layout



5.6.5. EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

5.6.6. Test Result

EUT ID	Performance index
A0:7F:A9:F1:11:DA	Good

5.7. Secondary Radiated Emissions

5.7.1. Standard Applicable

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4nW/100kHz or less at a frequency below 1 GHz and 4nW /MHz or less at a frequency of 1 GHz or higher as measured using the circuit

5.7.2. Test Procedures

- Set EUT work in test mode as described in clause 2.4.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Resolution BW: 100 KHz for frequency below 1GHz and
1MHz for frequency above 1GHz

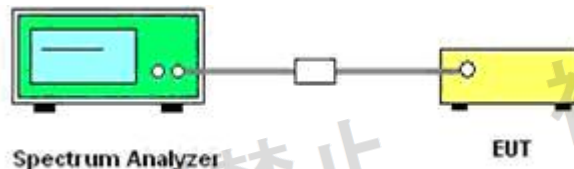
Video BW: 100 KHz for frequency below 1GHz and
1MHz for frequency above 1GHz

Detector: Peak.

Trace Mode: Max Hold.

- All the emissions from 30MHz to 6GHz were measured and record.

5.7.3. Test Setup



5.7.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.7.5. Test Results

N/A

6. PHOTOGRAPHS OF TEST SETUP

Please refer to Appendix A for Test Setup Photographs.

7. EXTERNAL PHOTOGRAPHS OF THE EUT

Please refer to Appendix B for External Photos of EUT.

8. INTERNAL PHOTOGRAPHS OF THE EUT

Please refer to Appendix C for Internal Photos of EUT.

9. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Equipment No.	Cal Date	Due Date
1	Power Meter	Keysight	E4417A	GLCS-E-279	2026-04-07	2027-04-06
2	Power Sensor	Keysight	E9304A	GLCS-E-280	2026-04-07	2027-04-06
3	Power Sensor	Keysight	E9304A	GLCS-E-281	2026-04-07	2027-04-06
4	Spread Ppectrum Unit	Tonscend	TS-WF7U2	GLCS-E-364	N/A	N/A
5	Test Software	Tonscend	JS1120-3	GLCS-E-366	N/A	N/A
6	RF Control Unit	Tonscend	JS0806-2	GLCS-E-365	2025-09-01	2026-08-31
7	MXA Signal Analyzer	Keysight	N9020A	GLCS-E-356	2025-08-18	2026-08-17
8	DC Power Supply	Keysight	E3642A	GLCS-E-357	2025-08-18	2026-08-17
9	Oscilloscope	Tektronix	46084A/4609A	GLCS-E-113	2025-05-22	2026-05-21
10	Signal Generator	Keysight	N5181A	GLCS-E-354	2025-08-18	2026-08-17

Note: Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law. Calibration Agencies: Guangzhou LiSai Metrology & Test Co., Ltd.

☐ (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act.

☒ (c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above.

-----THE END OF REPORT-----