

TEST REPORT

| Report No: | HST201612-7622-FCC |
|----------------------|---------------------|
| Sample Description: | Wireless Microphone |
| Model | UHF100T |
| Assessment Category: | Entrusted |
| Applicant: | HDKaraoke, LLC. |

Guangdong Huesent Testing & Inspection Technology Co., Ltd.



TEST REPORT

| Sample Description | Wireless Microphone | Trademark | HDKaraoke, LLC. | | |
|------------------------|---|-----------------------|----------------------------|--|--|
| Model | UHF100T | Specification | 3Vdc | | |
| Assessment Category | Entrusted | Sample Quantity | 3 | | |
| Applicant: | HDKaraoke, LLC. | Sample Status | Normal | | |
| Sample Received Date | Dec. 20, 2016 | Test Date | Dec. 20 to Jan. 5, 2016 | | |
| Issue Date | Jan. 6, 2017 | | | | |
| Manufacturer | Pasgao Electronics., Ltd | | | | |
| Address | V1 2nd District, Industrial China | Transfer Park, Enpin | g City, Guangdong, | | |
| Factory | Pasgao Electronics., Ltd | | | | |
| Address | V1 2nd District, Industrial Transfer Park, Enping City, Guangdong, China | | | | |
| Test address | No.91, Dongguanzhuang R | Road, Guangzhou, Chin | a | | |
| Test Items | Listed on page 4 | | | | |
| Test standard | FCC Part 74.861e: 2016 | | | | |
| Test Conclusion | The results conform to the the test items. | requirements of stand | ards with respect to | | |
| Remarks | FCCID: 2AKVFUHF100T | | | | |
| Tested by : Lemon Fu | Tested by : Lemon Fu Sign: Lemon Fu | | | | |
| Reviewed by: Sandy Yu | Tested by : Lemon Fu Sign: Lemon Fu Reviewed by: Sandy Yu Sign: Sandy Yu | | | | |
| Approved by: Robin Pen | g Sign: جمعے ا | 1 | | | |

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1 Test Summary

| Test | Test Requirement | Standard Paragraph | Result |
|----------------------------|--------------------|--|--------|
| Carrier Radiated Power | FCC Part 2.1046 | 74.861 e) 1) 54–72, 76–88 & 174–210 MHz bands, 50 mW 470–608 and 614–806 MHz bands, 250 mW | PASS |
| Modulation Deviation | FCC Part 2.1047 | 74.861 e) 3) Within 75kHz | PASS |
| Frequency Stability | FCC Part 2.1055 | 74.861 e) 4) <0.005% 50 ppm | PASS |
| Operating Bandwidth | FCC Part 2.1049 c) | 74.861 e) 5) Within 200kHz | PASS |
| Unwanted Radiation | FCC Part 2.1049 c) | 74.861 e) 6) within the mask | PASS |
| Radiated Spurious Emission | FCC Part 2.1053 | 74.861 d) 3) < 43+10lgP(W) dB | PASS |

Remark:

♣The EUT has one channel, which is located in the range 470.2 MHz to 607.8 MHz.

Only test result of sample of in channels 470.2 MHz, 584.412 MHz and 607.8 MHz were recorded in this report.

2 General Information

2.1 Details of E.U.T.

Power Supply: 3.0Vdc by 2 AA Batteries

Main Function: Wireless microphone system with an associated receiver for

transmitting voice.

The final amplifier Collector Voltage and Collector Current are 0.3V & 3.5mA respectively.

Necessary Bandwidth: 2M+2DK= 2 x 80 kHz + 2 x 20kHz x 1.0 = 200 kHz

1 channel for each microphone; Modulation: F3E; Antenna Type: Fixed; Gained: 0 dBi

2.2 Description of Support Units

Connect the EUT to mains power, and then test the EUT with signal generator.

2.3 Standards Applicable for Testing

The standard used was FCC Part 74.861e: 2016

The EUT belongs to licensed low power auxiliary devices.

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2.4 Test Location

Guangdong Environment Radiation Monitoring Center

Address: No. 860, South Guangzhou Avenue, Guangzhou, 510300 China

Accredited by CNAS, Accredited Number: L5539

FCC- Registration No: 667318 Renewal on Sep. 12, 2012

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

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3 Test Results

3.1 E.U.T. Operation Condition

Operating Environment:

Temperature: 20.0 °C~25 °C

Humidity: 50 ~70% RH

Atmospheric Pressure: 980~1012 mbar

EUT Operation: Test the EUT in transmitting mode.

Performed Carrier Radiated Power & Radiated Spurious

Emissions testing in highest/ middle / lowest frequency spots

within the range, and performed Occupied Bandwidth, Frequency Stability & Modulation Characteristics in middle

frequency spot.

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3.2 Test Procedure & Measurement Data

3.2.1 Carrier Radiated Power & Radiated Spurious Emissions

Test Requirement: FCC CFR 47 Part 74.861 e) 1) & d) 3)

Test Method: EIA/TIA 603-D:2010 section 2.2,

FCC CFR 47 Part 2.1047 & 1053

Measurement Distance: 3m (Semi-Anechoic Chamber)

Test Requirement:

(d) For low power auxiliary stations operating in the bands other than those allocated for TV broadcasting, the following technical requirements are imposed.

- (3) The occupied bandwidth shall not be greater than that necessary for satisfactory transmission and, in any event, an emission appearing on any discrete frequency outside the authorized band shall be attenuated, at least, 43+10 log ¹⁰ (mean output power, in watts) dB below the mean output power of the transmitting unit.
- (e) For low power auxiliary stations operating in the bands allocated for TV broadcasting, the following technical requirements apply:
- (1) The power of the measured unmodulated carrier power at the output of the transmitter power amplifier (antenna input power) may not exceed the following:
 - (i) 54-72, 76-88, and 174-216 MHz bands-50 mW
 - (ii) 470-608 and 614-806 MHz bands-250 mW

Test Procedure:

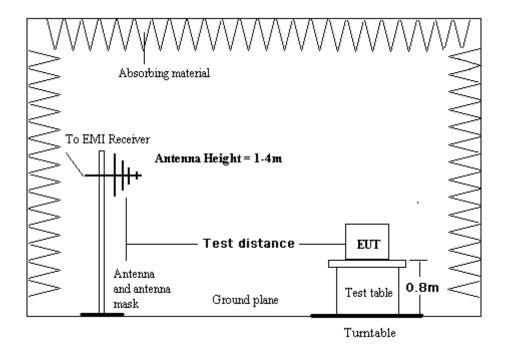
The procedure used was EIA/TIA 603-D:2010. The receiver was scanned from the lowest radio frequency generated in the equipment to the tenth harmonic of the carrier. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes.

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

An initial pre-scan was performed in the 3m chamber using the spectrum analyzer in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities

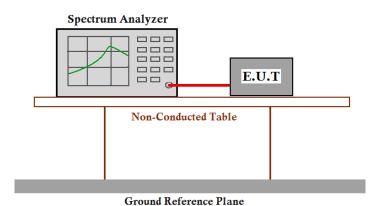
Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the Carrier Radiated Power and spurious emissions were measured by the substitution.



Conducted output power:

Remove the antenna from the EUT and then connect a low attenuation RF cable from the antenna port to the spectrum.

Set the spectrum analyzer: RBW = 300 kHz. VBW >= RBW. Span=2MHz, Sweep = auto; Detector Function = Peak (Max. hold).



| Carrier Frequency (MHz) | Reading Value conducted output power dBm (mW) | Cable loss (dB) | True Value conducted output power dBm (mW) | Limit in 74.861 e) 1) |
|-------------------------------|---|--------------------|--|------------------------------|
| 470.200 | -10.9dBm(i.e.0.081 mW) | 0.5 | -10.4dBm(i.e.0.091 mW) | 24 dBm (i.e. |
| 584.412 | -11.2dBm(i.e.0.076 mW) | 0.6 | -10.6dBm(i.e.0.087 mW) | 250 mW) |

| 607.800 | -11.2dBm(i.e.0.076 mW) | 0.6 | -10.6dBm(i.e 0.087 mW) | |
|---------|------------------------|-----|---------------------------|--|
|---------|------------------------|-----|---------------------------|--|

Note:

Conducted output power (dBm)= Reading Value (dBm)+ Cable loss(dB)

Radiated spurious emissions:

| 470.200 MHz, Horizontal | | | | | | | |
|-----------------------------------|------------------|-----------------------|---------------------------|----------------------------------|------------------------|---------------|------------|
| Spurious Emission Frequency (MHz) | Read value (dBm) | Cable Loss (dB) | Antenna Factor (dB) | 1-18GHz Pre-amplifier (dB) | Ture value (dBm) | Limit/ dBm | Margin(dB) |
| Fundamental: 470.2 | -37.9 | 1.7 | 16.0 | 0 | -20.2 | 24 | -44.2 |
| 940.4 | -77.0 | 2.6 | 21.6 | 0 | -52.8 | -13 | -39.8 |
| 470.200 MHz, Ve | rtical | | | | | | |
| Fundamental: 470.2 | -28.6 | 1.7 | 16.0 | 0 | -10.9 | 24 | -34.9 |
| 940.4 | -76.3 | 2.6 | 21.6 | 0 | -52.1 | -13 | -39.1 |
| 584.412, Horizon | tal | | | | | | |
| Fundamental: 584.4 | -43.2 | 2.2 | 18.2 | 0 | -22.8 | 24 | -46.8 |
| 1168.8 | -49.2 | 2.5 | 24.7 | 30 | -52.0 | -13 | -39.0 |
| 584.412, Vertical | | | | | | | |
| Fundamental: 584.4 | -31.2 | 2.2 | 18.2 | 0 | -10.8 | 24 | -34.8 |
| 1168.8 | -49.6 | 2.5 | 24.7 | 30 | -52.4 | -13 | -39.4 |

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| 607.800 MHz, Horizontal | | | | | | | |
|-------------------------|-------|-----|------|----|-------|-----|-------|
| Fundamental: 607.8 | -42.3 | 1.9 | 19.3 | 0 | -21.1 | 24 | -45.1 |
| 1215.6 | -50.7 | 3.0 | 25.4 | 30 | -52.3 | -13 | -39.3 |
| 607.800 MHz, Vertical | | | | | | | |
| Fundamental: 607.8 | -31.9 | 1.9 | 19.3 | 0 | -10.7 | 24 | -34.7 |
| 1215.6 | -50.7 | 3.0 | 25.4 | 30 | -52.3 | -13 | -39.3 |

Note:

The Factual Level is ERP value.

Limit = -13 dBm, and the Fundamental limit = 24 dBm (i.e. 250 mW)

30dB pre-amplifier factor is used for the radiated emissions test above 1GHz.

Attenuation Factor includes the cable loss and the antenna factor, 30dB pre-amplifier factor.

Below 1GHz: Attenuation Factor (dB)= cable loss (dB)+ antenna factor(dB)

Above 1GHz: Attenuation Factor (dB)= cable loss (dB)+ antenna factor(dB) – 30 (dB)

Ture Value (dBm) = Reading Value (dBm)+ Attenuation Factor (dB)

The peak emission of other frequency in rang from 30MHz up to 10 times carrier were 25dB lower than the limit, hence no data was recorded in the report.

NA: Not applicable, since the level is over 30dB lower than the limit.

Below 1GHz, Detector=Peak, RBW=120kHz, VBW=60kHz, MT=1ms, Unit=dBm. Above 1GHz, Detector=Peak, RBW=1MHz, VBW=500kHz, MT=1ms, Unit=dBm.

TEST RESULTS: The unit does meet the FCC requirements.

3.2.2 Occupied Bandwidth

Test Requirement: FCC CFR 47 Part 74.e) 5) & 6)

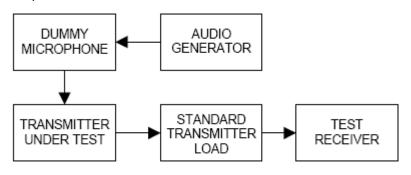
Test Method: FCC CFR 47 Part 2.1049 f) 2)

Requirements:

- (e) For low power auxiliary stations operating in the bands allocated for TV broadcasting, the following technical requirements apply:
- (5) The operating bandwidth shall not exceed 200 kHz.
- (6) The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:
- (i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25dB;
- (ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35dB;
- (iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least 43+10log₁₀ (mean output power in watts) dB.

Test Procedure

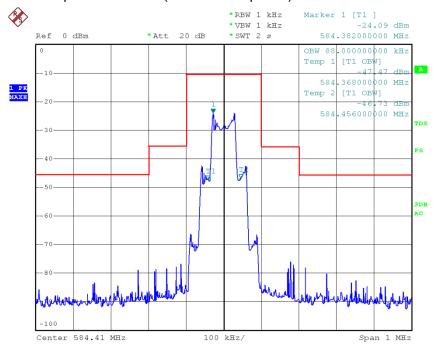
Setup



Input 2500Hz signal to the microphone, find the 50% rated deviation, add the level 16dB, test this status the 99% occupied bandwidth and record it.

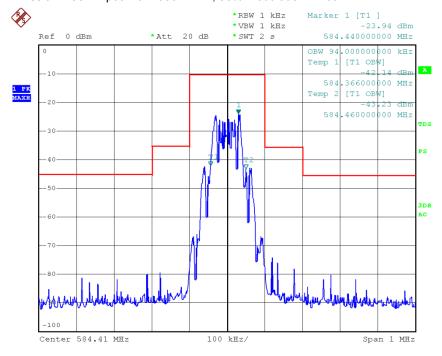
Test Result: The graph as below, represents the emissions take for this device.

Occupied Bandwidth (99% of total power): 88.0 kHz.



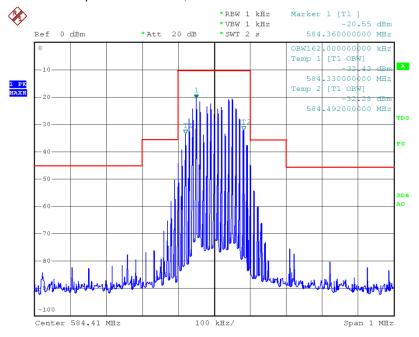
Date: 5.JAN.2017 05:46:20

Emission Mask: input with 2500 Hz AF, 50% modulation + 16dB.



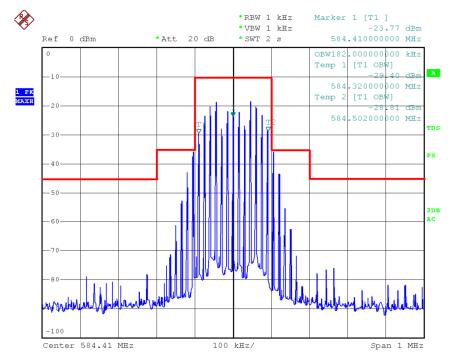
Date: 5.JAN.2017 05:45:48

Emission Mask: input with 10 kHz AF, 50% modulation + 16dB.



Date: 5.JAN.2017 05:45:18

Emission Mask: input with 15 kHz AF, 50% modulation + 16dB.



Date: 5.JAN.2017 05:44:49

Test results: The unit does meet the FCC requirements.

3.2.3 Frequency Stability

Test Requirement: FCC CFR 47 Part 74.e) 4)

Test Method: FCC CFR 47 Part 2.1055

Requirements: +/-50 ppm

(e) For low power auxiliary stations operating in the bands allocated for TV broadcasting, the following technical requirements apply:

(4) The frequency tolerance of the transmitter shall be 0.005 percent.

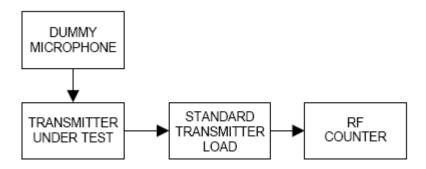
Test Procedure:

Frequency stability versus Environmental Temperature

The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. After the temperature stabilized for approximately 20 minutes, the frequency of the output signal was recorded from the counter.

Frequency Stability versus Input Voltage

At room temperature ($25 \pm 5^{\circ}$ C), an external variable DC power supply was connected to the EUT. The frequency of the transmitter was measured for 115%, 100% and 85% of the nominal operating input voltage. For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Result:

| Assigned Frequency: 614.2 MHz/ 664.248 MHz/ 697.8 MHz | | | | | | |
|---|----------------|-----------------------|-----------------|-------------|--|--|
| Environment Temperature | Power Supplied | Frequency N | leasure with T | ime Elapsed | | |
| (°C) | (Vdc) | Total emission within | | | | |
| | | +/-23.5kHz | +/-29.2kHz | +/-30.4kHz | | |
| 50 | 3.0 | -9.0 | -9.1 | -8.2 | | |
| 40 | 3.0 | 10.3 | 11.2 | 10.5 | | |
| 30 | 3.0 | 12.2 | 11.4 | 10.1 | | |
| 20 | 3.0 | -7.3 | -9.3 | -9.6 | | |
| 10 | 3.0 | -10.8 | -7.2 | -8.1 | | |
| 0 | 3.0 | 13.6 | 14.1 | 12.7 | | |
| -10 | 3.0 | -10.7 | -10.3 | -15.5 | | |
| -20 | 3.0 | -15.1 | -15.2 | -16.2 | | |
| -30 | 3.0 | -17.8 | -17.1 | -16.6 | | |
| Environment Temperature | Power Supplied | Frequency N | leasure with T | îme Elapsed | | |
| (°C) | (Vdc) | Tot | al emission wit | thin | | |
| | | +/-23.5kHz | +/-29.2kHz | +/-30.4kHz | | |
| 25 | 3.0 | -11.2 | -10.1 | -14.3 | | |
| 25 | 2.8 | 1.5 | 1.5 | 2.7 | | |
| 25 | 2.6 | 4.7 | 3.2 | 10.1 | | |
| 25 | 2.5 | -11.8 | -14.9 | -13.6 | | |

The EUT end point: 2.5Vdc

The results: The unit does meet the FCC requirements.

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3.2.4 Modulation Characteristics

Test Requirement: FCC CFR 47 Part 74.e) 3)
Test Method: FCC CFR 47 Part 2.1047

Requirements:

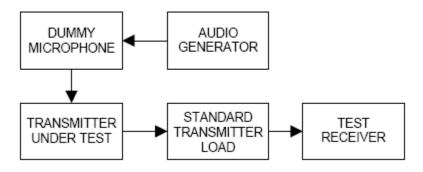
- (e) For low power auxiliary stations operating in the bands allocated for TV broadcasting, the following technical requirements apply:
- (3) Any form of modulation may be used. A maximum deviation of ± 75 kHz is permitted when frequency modulation is employed.

Test Procedure:

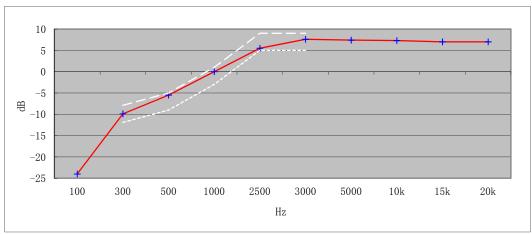
Audio Frequency Response

The RF output of the transceiver was connected to the input of FSP 30 with FM deviation module through sufficient attenuation so as not to overload the meter or distort the reading. An audio signal generator was connected to the audio input of microphone.

The audio signal input level was adjusted to obtain **20% of the maximum rated system deviation at 1 kHz**, and recorded as DEV_{REF} . With the audio signal generator level unchanged, set the generator frequency between 100 to 5000 Hz. The transmitter deviations (DEV_{FREQ}) were measured and the audio frequency response was calculated as 20log10 [DEV_{FREQ} / DEV_{REF}]



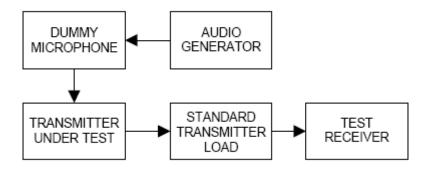
The plot(s) of Audio Frequency Response is presented hereinafter as reference.



0dB=10mV at 1kHz (20% of the maximum rated system deviation).

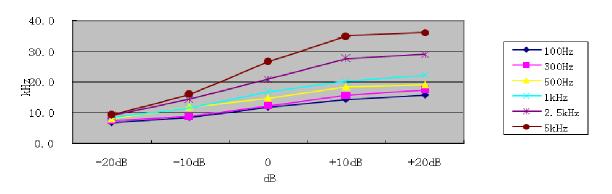
Modulation Limiting

- a) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- b) Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤0.25 Hz to ≥15,000 Hz. Turn the de-emphasis function off.
- c) Apply a **1000 Hz** modulating signal to the transmitter from the audio frequency generator, and adjust the level to obtain **60% of full rated system deviation**.
- d) Increase the level from the audio frequency generator by 20 dB in one step (rise time between the 10% and 90% points shall be 0.1 second maximum).
- e) Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio input level.
- f) With the level from the audio frequency generator held constant at the level obtained in step e), slowly vary the audio frequency from 100 to 5000 Hz and observe the steady-state deviation. Record the maximum deviation.



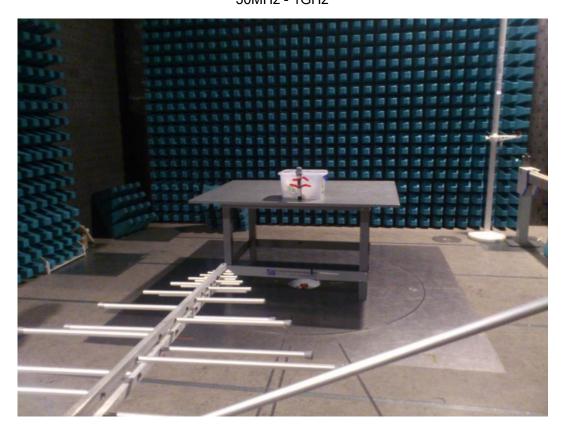
Test at five different modulating frequencies (100Hz ,300Hz, 500Hz, 1KHz, 2.5kHz, 5kHz), the output level of the audio generator was varied up to 1V and the FM deviation level was recorded.

Positive peak deviation



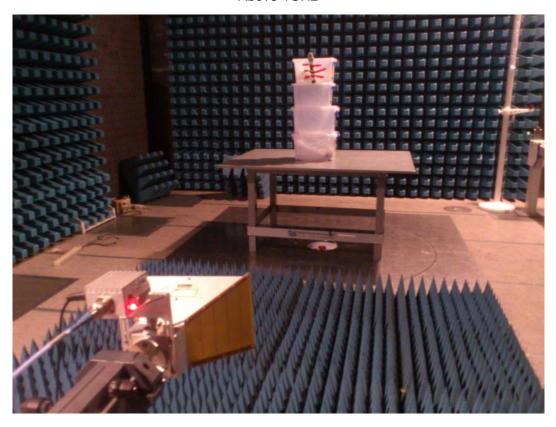
3.3 Photographs

3.3.1 Radiated Emission Test Setup 30MHz - 1GHz



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Above 1GHz



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3.3.2 EUT Constructional Details





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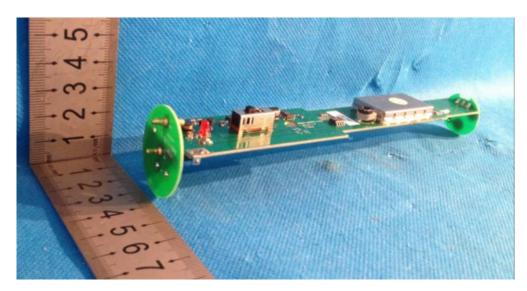




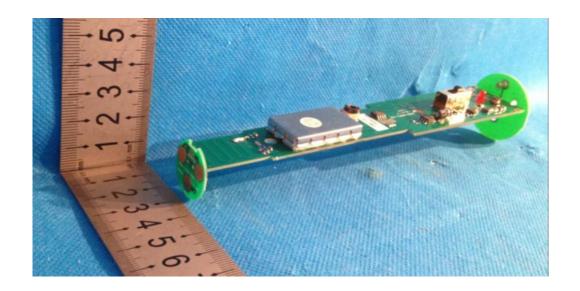


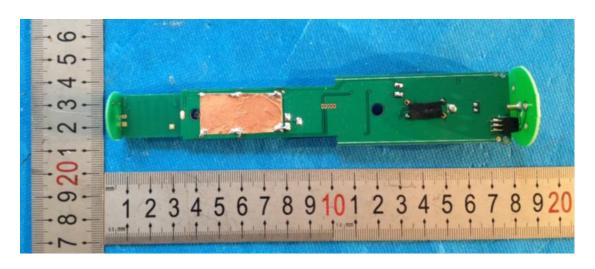


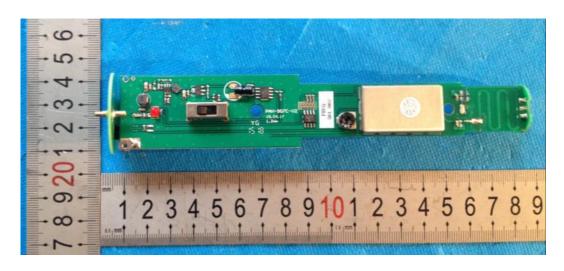


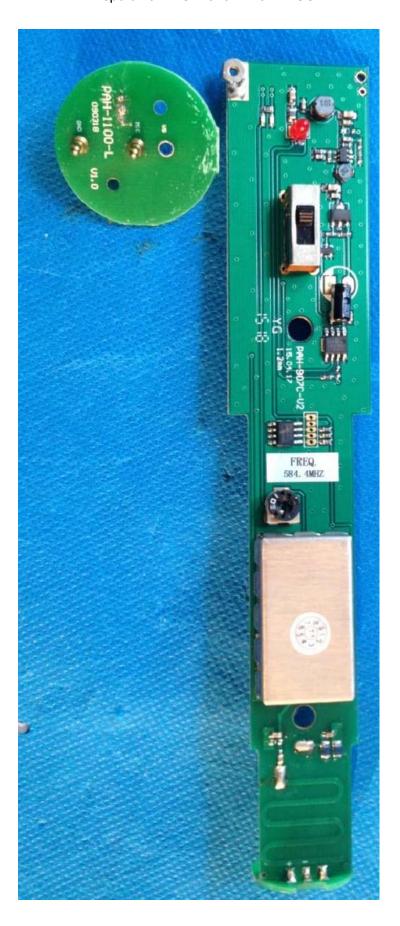


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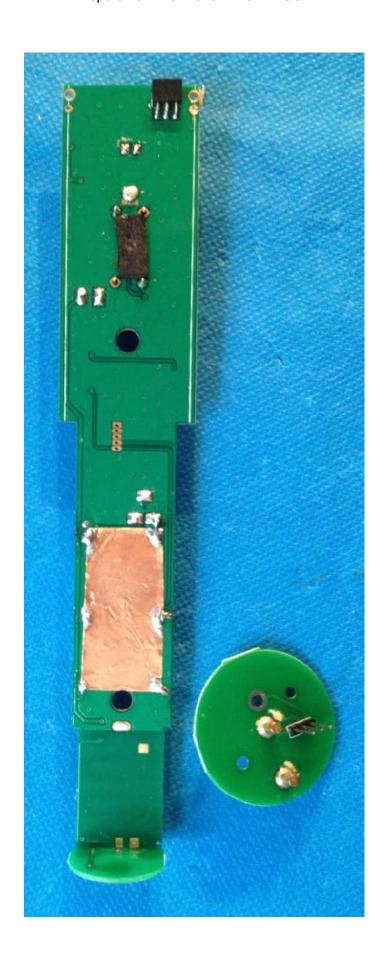








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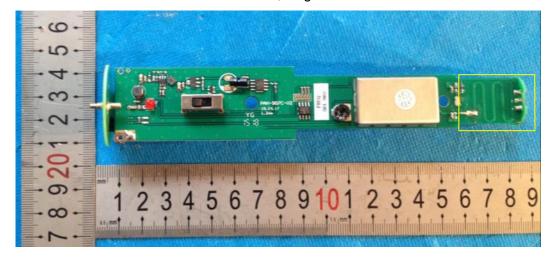
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3.3.3 Antenna Photo

Min distance from the antenna to the shell : 3.0 mm Antenna Location, length: 16.5 mm



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4 Equipments Used during Test

| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date |
|------|-----------------------------------|-------------------------|--------------|---------------|-----------|------------------|
| 1 | RF Generator | Rohde & Schwarz | SMB100A-B106 | 1.031 | 2016-5-10 | 2017-5-10 |
| 2 | Spectrum Analyzer | Rohde & Schwarz | FSP30 | EMC0001 | 2016-3-24 | 2017-3-24 |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESCI | EMC1002 | 2016-3-24 | 2017-3-24 |
| 4 | 2-Channel Power Meter | Rohde & Schwarz | NRP2 | 1.033 | 2016-5-10 | 2017-5-10 |
| 5 | Audio Analyzer | Hewlett Packard | 8903B | EMC0011 | 2016-11-5 | 2017-11-5 |
| 6 | Power Sensor | Rohde & Schwarz | NRP-Z91 | 1.034 | 2016-5-10 | 2017-5-10 |
| 7 | Power Sensor | Rohde & Schwarz | NRP-Z91 | 1.035 | 2016-5-10 | 2017-5-10 |
| 8 | Temperature Chamber | Gongwen | GDS-250 | SFT0009 | 2016-11-5 | 2017-11-5 |
| 9 | D.C. Power Supply | KIKUSUI | PAN35-10A | SFT0319 | 2016-11-5 | 2017-11-5 |
| 10 | Temperature Chamber | Gongwen | GDS-250 | SFT0009 | 2016-11-5 | 2017-11-5 |
| 11 | D.C. Power Supply | KIKUSUI | PAN35-10A | SFT0319 | 2016-11-5 | 2017-11-5 |
| 12 | Humidity/ Temperature Meter | Anymetre | TH101B | SFT0063 | 2016-11-5 | 2017-11-5 |
| 13 | Barometer | ChangChun | DYM3 | SEL0088 | 2016-6-8 | 2017-6-8 |
| 14 | Multimeter | UNI-T | UT70A | EMC0017 | 2016-11-5 | 2017-11-5 |
| 15 | Monopole Antenna | HST | N/A | EMC0089 | 2016-11-5 | 2017-11-5 |
| 16 | Low loss coaxial cable | HST | 2 m | EMC1008 | 2016-11-5 | 2017-11-5 |
| 17 | Monopole Antenna | HST | N/A | N/A | 2016-11-5 | 2017-11-5 |
| 18 | Noise Generator | Ningbo Zhongce | DF1681 | EMC0009 | 2016-11-5 | 2017-11-5 |
| 19 | Semi-Anechoic chamber | ETS•Lindgren | FACT3 2.0 | ITL-100 | 2016-6-17 | 2019-6-17 |
| 20 | EMI Test receiver | R&S | ESVS10 | ITL-111 | 2016-1-19 | 2017-1-19 |
| 21 | EXA Spectrum Analyzer | Agilent Technologies | N9010A | ITL-114 | 2016-1-19 | 2017-1-19 |
| 22 | Biconilog | ETS•Lindgren | 3142D | ITL-105 | 2015-1-24 | 2018-1-24 |

| | Antenna | | | | | |
|----|-----------------|----------------|----------------|---------|-----------|-----------|
| 23 | Pre Amplifier | HP | 8447F | ITL-116 | 2016-1-19 | 2017-1-19 |
| | Wideband | | | | | |
| 24 | Amplifier Super | Mini-circuits | ZVA-183-S+ | ITL-117 | 2016-1-19 | 2017-1-19 |
| | Ultra | | | | | |
| 25 | Horn Antenna | A-INFOMW | JXTXLB-10180-N | ITL-110 | 2015-1-24 | 2018-1-24 |
| 26 | Software | Audix | E3 | ITL-109 | / | 1 |
| 27 | Loop Antenna | BJ 2nd Factory | ZN30900A | EMC6001 | 2016-7-29 | 2019-7-29 |

^{***}End of report***

Report Statement

- 1. This test report is invalid if altered, additions and deletions.
- 2. This test report is responsible for tested samples only.
- 3. Objections to the test report must be submitted to Guangdong Huesent Testing & Inspection Technology Co., Ltd. within 15 days.
- 4. The test report is invalid without the signatures of tester, reviewer, approver, and official stamp of test unit.
- 5. Without permission of Guangdong Huesent Testing & Inspection Technology Co., Ltd., This report is not permitted to be duplicated in extracts.
- 6.P"= Pass=Test item conform to the requirement
- "F"= Fail=Test item not conform to the requirement
- "N" = Not Applicable = Test item Not Applicable to the test object

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