



FCC TEST REPORT

Test report On Behalf of Henan Aofeng Industrial Co., Ltd. For Henan Aofeng Industrial Co., Ltd. Model No.: AR-5, AR-6

FCC ID: 2ARTCAR-5

| Prepared for : | Henan Aofeng Industrial Co., Ltd. |
|-----------------|--|
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| Prepared By : | Shenzhen HUAK Testing Technology Co., Ltd. |
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| Date of Test: | Oct. 28, 2018~Nov. 15, 2018 |
| Date of Report: | Dec. 04, 2018 |
| Report Number: | HK1811151587E |



TEST RESULT CERTIFICATION

| Applicant's name: | Henan Aofeng Industrial Co., Ltd. |
|-----------------------------------|---|
| Address | Zhongyuanqu Jianshexilu 92 Hao 1 Haolou 2 Danyuan5 Ceng 44 Hao, Zhengzhou, Henan, China 450007 |
| Manufacture's Name: | Fujian BaoFeng Electronics Co., Ltd. |
| Address | Changfu Industrial Area,Xiamei Town, Nan'an City, Fujian Province, China |
| Product description | Two way radio |
| Brand Name | Arcshell |
| Mode Name | AR-5 |
| Serial Name | AR-6 |
| Difference Description | AR-6 has different color combinations; AR-5 and AR-6 face shell styles are different. |
| Standards | FCC Rules and Regulations Part 15B |
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| Date of Test | |
|-----------------------------------|-----------------------------|
| Date (s) of performance of tests: | Oct. 28, 2018~Nov. 15, 2018 |
| Date of Issue | Dec. 04, 2018 |
| Test Result: | Pass |



| Revision | Issue Date | Revisions | Revised By |
|----------|---------------|----------------|------------|
| V1.0 | Nov. 15, 2018 | Initial Issue | Jason Zhou |
| V1.1 | Nov. 30, 2018 | Updated Report | Jason Zhou |
| V1.2 | Dec. 04, 2018 | Updated Report | Jason Zhou |



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1. VERIFICATION OF COMPLIANCE

| Hardware Version | LT-666-LN-VER6.8 |
|--------------------------|------------------|
| Software Version | 200/2W【1】【K】 |
| Measurement Procedure | ANSI C63.4: 2014 |
| Deviation: | None |
| Condition of Test Sample | Normal |

The above equipment was tested by Attestation Of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.



2. PRODUCT INFORMATION

The EUT is a Analog Transceiver designed for voice communication. It is designed by way of utilizing the F3E modulation achieves the system operating.

A major technical description of EUT is described as following:

| Communication Type | Voice / Tone only |
|--|---------------------|
| Modulation | FM |
| RX Frequency Range | Rx: 400MHz -470MHz |
| Emission Type | F3E |
| Antenna Designation Detachable | |
| Antenna Gain 2.15dBi | |
| Power Supply DC 3.7V 1500mAh, charging with DC 4.2V. | |
| | INPUT:DC 5V 1A |
| Charger Parameter | OUTPUT:DC 4.2V 0.5A |

I/O Port Information (Applicable Not Applicable)

| I/O Port of EUT | | | | | |
|--------------------------------------|---|---|---|--|--|
| I/O Port Type Q'TY Cable Tested with | | | | | |
| Microphone | 0 | 0 | 0 | | |
| Antenna Connect Port | 1 | 0 | 1 | | |

3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

| Site | Shenzhen HUAK Testing Technology Co., Ltd. | | | |
|--|--|--|--|--|
| Location | 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an | | | |
| Location | District, Shenzhen City, China | | | |
| Designation Number | umber CN1229 | | | |
| Test Firm Registration Number : 616276 | | | | |

List Of Test Equipment:

| Conducted Emission Shielding Room Test Site (744) | | | | | | |
|---|----------|---------|---------|---------------|---------------|--|
| Equipment Manufacturer Model Serial Number Cal. Date Cal. Due | | | | | | |
| Receiver | R&S | ESCI 7 | HKE-010 | Dec. 29, 2017 | Dec. 28, 2018 | |
| LISN | R&S | ENV216 | HKE-002 | Dec. 29, 2017 | Dec. 28, 2018 | |
| Conducted test | | TS+ Rev | | N1/A | N1/A | |
| software | Tonscend | 2.5.0.0 | HKE-081 | N/A | N/A | |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|---------------------|--------------|-----------|---------|---------------|---------------|
| Broadband antenna | Schwarzbeck | VULB 9163 | HKE-012 | Dec. 29, 2017 | Dec. 28, 2018 |
| Receiver | R&S | ESCI 7 | HKE-010 | Dec. 29, 2017 | Dec. 28, 2018 |
| Preamplifier | Schwarzbeck | BBV 9743 | HKE-006 | Dec. 29, 2017 | Dec. 28, 2018 |
| Position controller | Taiwan MF | MF7802 | HKE-011 | Dec. 29, 2017 | Dec. 28, 2018 |
| Horn antenna | Schwarzbeck | 9120D | HKE-013 | Dec. 29, 2017 | Dec. 28, 2018 |
| Vector Analyzer | Agilent | E4440A | HKE-101 | Mar.01,2018 | Feb.28,2019 |
| RF Communication | | | | 1 10 0010 | |
| Test Set | HP | HP8920B | HKE-089 | June 12, 2018 | June 11, 2019 |



4. SUPPORT EQUIPMENT LIST

| Device Type | Manufacturer | Model Name | Serial No. | Data Cable | Power Cable |
|-------------|--------------|------------|------------|------------|-------------|
| | | | | | |

5. SYSTEM DESCRIPTION

EUT test procedure:

- 1. Connect EUT and peripheral devices.
- 2. Power on the EUT, the EUT begins to work.
- 3. Make sure the EUT normal working.

EMC TEST MODES

| No. | TEST MODES |
|-----|--|
| 1 | Scanning mode |
| 2 | Scanning stopped/Receiving at low channel of 400 MHz -470 MHz |
| 3 | Scanning stopped/Receiving at middle channel of 400 MHz -470 MHz |
| 4 | Scanning stopped/Receiving at high channel of 400 MHz -470 MHz |

Note: Only the result of the worst case was recorded in the report.



6. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|------------|--|-----------|
| §15.107 | Conduction Emission | Compliant |
| §15.109 | Radiated Emission | Compliant |
| §15.111 | Antenna Conducted Power for receivers | Compliant |
| §15.121(b) | Scanning receivers and frequency converters used with scanning receivers | Compliant |



7. FCC RADIATED EMISSION TEST

7.1. TEST EQUIPMENT OF RADIATED EMISSION

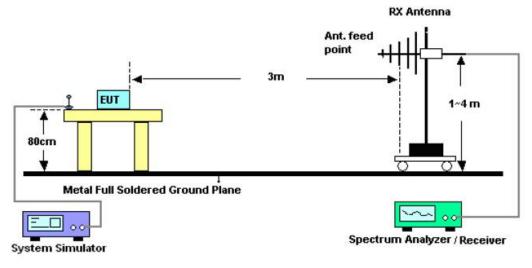
7.2. LIMITS OF RADIATED EMISSION TEST

| Frequency (MHz) | Distance (m) | Maximum Field Strength Limit (dBuV/m/ Q.P.) |
|--------------------|-----------------|--|
| 30~88 | 3 | 41.0 |
| 88~216 | 3 | 45.0 |
| 216~960 | 3 | 48.0 |
| 960~2000 | 3 | 53.5 |

**Note: The lower limit shall apply at the transition frequency. Because the EUT RX frequency range up to 480 MHz, so the upper the frequency range up to 2 GHz.

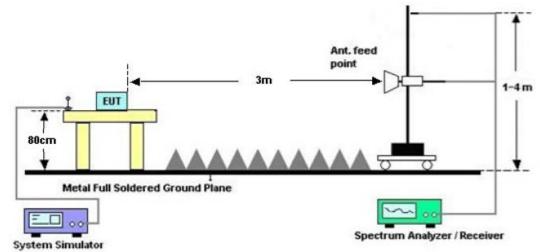
7.3 BLOCK DIAGRAM OF RADIATED EMISSION TEST

RADIATED EMISSION TEST SETUP 30MHz-1000MHz





RADIATED EMISSION TEST SETUP ABOVE 1000MHz





7.4 PROCEDURE OF RADIATED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.

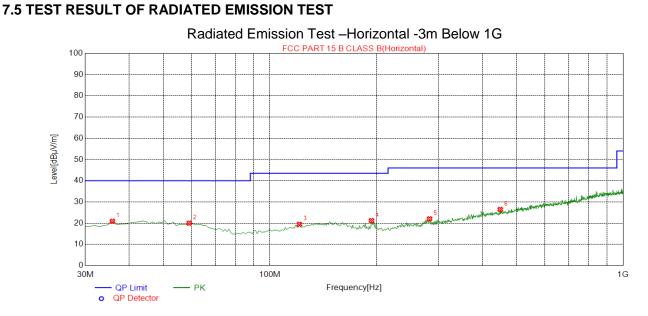
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- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received power by AC 120V/60Hz.
- 5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 7) The test mode(s) were scanned during the test:
- 8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented. For emissions below 1GHz, use 120KHz RBW and VBW>=3RBW for QP reading.
 - 9) For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
 - 10) When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
 - 11)If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
 - 12) For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
 - 13) In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.
 - 14) The test data of the worst case condition (mode 1) was reported on the following Data page



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A V.

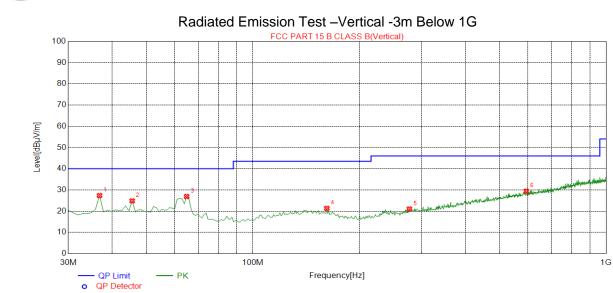


| Suspe | Suspected Data List | | | | | | | | |
|-------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 35.8200 | 20.86 | 13.66 | 40.00 | 19.14 | 100 | 302 | Horizontal | |
| 2 | 59.1000 | 19.99 | 13.61 | 40.00 | 20.01 | 100 | 232 | Horizontal | |
| 3 | 121.180 | 19.44 | 12.98 | 43.50 | 24.06 | 200 | 342 | Horizontal | |
| 4 | 193.930 | 21.18 | 11.57 | 43.50 | 22.32 | 100 | 93 | Horizontal | |
| 5 | 283.170 | 22.02 | 15.30 | 46.00 | 23.98 | 150 | 357 | Horizontal | |
| 6 | 449.040 | 26.44 | 19.76 | 46.00 | 19.56 | 100 | 117 | Horizontal | |

RESULT: PASS

Report No.: HK1811151587E





| Suspe | Suspected Data List | | | | | | | | |
|-------|---------------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 36.7900 | 27.36 | 13.89 | 40.00 | 12.64 | 100 | 197 | Vertical | |
| 2 | 45.5200 | 24.83 | 14.47 | 40.00 | 15.17 | 200 | 102 | Vertical | |
| 3 | 64.9200 | 26.92 | 12.70 | 40.00 | 13.08 | 100 | 62 | Vertical | |
| 4 | 161.920 | 21.32 | 14.07 | 43.50 | 22.18 | 150 | 255 | Vertical | |
| 5 | 277.350 | 21.02 | 15.14 | 46.00 | 24.98 | 150 | 358 | Vertical | |
| 6 | 594.540 | 29.43 | 22.82 | 46.00 | 16.57 | 100 | 31 | Vertical | |

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

3. Emissions range from 1GHz to 2GHz have 20dB margin. No recording in the test report.

4. Only the data of the worst case would be record in this test report.



8. CONDUCTED EMISSION TEST

8.1 PROVISIONS APPLICABLE

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the, the radio frequency voltage that is conducted back onto the AC power line on any frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50uH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

| Frequency of Emission (MHz) | Conducted Limit(dBuV) | | | |
|-----------------------------|-----------------------|------------|--|--|
| | Quasi-Peak | Average | | |
| 0.15 – 0.5 | 66 to 56 * | 56 to 46 * | | |
| 0.5 – 5 | 56 | 46 | | |
| 5 – 30 | 60 | 50 | | |

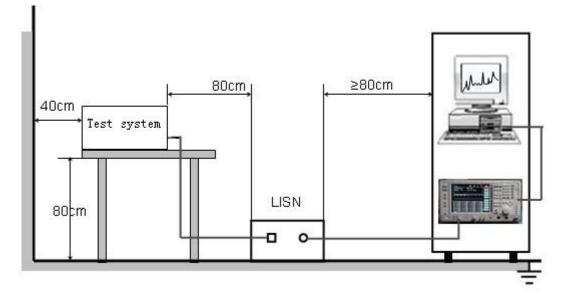
* Decreases with the logarithm of the frequency.

8.2 MEASUREMENT PROCEDURE

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) The EUT received AC 120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- (5) All support equipments received AC power from a second LISN, if any.
- (6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (7) Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

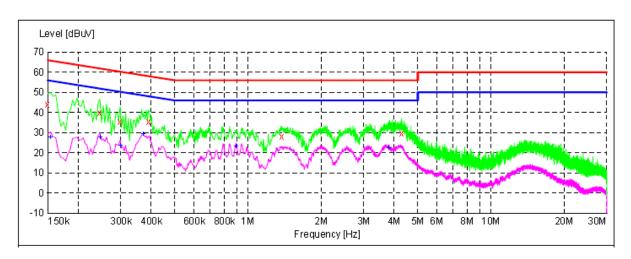
During the above scans, the emissions were maximized by cable manipulation.

8.3 TEST SETUP BLOCK DIAGRAM





CONDUCTED EMISSION TEST - LINE L



MEASUREMENT RESULT: "TEST_fin"

2018/11/02 14:11

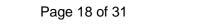
| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|--|--|--|----------------------------|--|----------------------------------|----------------------------------|--|
| 0.150000 0.246000 0.298000 0.390000 1.378000 4.290000 | 44.10 39.80 35.40 35.20 27.90 29.60 | 10.0 10.1 10.1 10.0 10.0 10.2 | 66 62 58 56 56 | 21.9 22.1 24.9 22.9 28.1 26.4 | QP QP QP QP QP QP | L1 L1 L1 L1 L1 L1 | FLO FLO FLO FLO FLO FLO |

MEASUREMENT RESULT: "TEST_fin2"

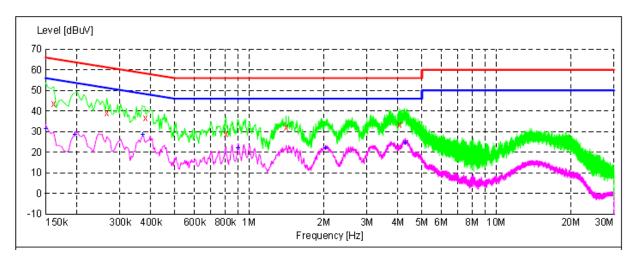
| 2018/11/02 1 | L4:11 | | | | | | |
|--------------|-------|--------|-------|--------|----------|------|---------------|
| Frequency | Level | Transd | Limit | Margin | Detector | Line | \mathbf{PE} |
| MHz | dBuV | dB | dBuV | dB | | | |
| | | | | | | | |
| 0.154000 | 27.80 | 10.0 | 56 | 28.0 | AV | г1 | FLO |
| 0.246000 | 27.50 | 10.1 | 52 | 24.4 | AV | г1 | FLO |
| 0.298000 | 23.60 | 10.1 | 50 | 26.7 | AV | г1 | FLO |
| 0.370000 | 29.20 | 10.0 | 49 | 19.3 | AV | г1 | FLO |
| 0.894000 | 23.30 | 10.1 | 46 | 22.7 | AV | г1 | FLO |
| 3.810000 | 22.30 | 10.1 | 46 | 23.7 | AV | гī | FLO |
| | | | | | | | |

RESULT: PASS

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CONDUCTED EMISSION TEST - LINE N



MEASUREMENT RESULT: "TEST_fin"

2018/11/02 14:07

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|--|--|--|----------------------------------|--|----------------------------------|-----------------------|--|
| 0.162000 0.266000 0.382000 0.806000 1.410000 4.066000 | 43.60 38.90 36.70 28.70 32.20 33.20 | 10.0 10.1 10.0 10.0 10.0 10.2 | 65 61 58 56 56 56 | 21.8 22.3 21.5 27.3 23.8 22.8 | QP QP QP QP QP QP | N N N N N | FLO FLO FLO FLO FLO FLO |

MEASUREMENT RESULT: "TEST_fin2"

| 2018/11/02 | 14:07 | | | | | | |
|------------|---------|--------|-------|--------|----------|------|---------------|
| Frequenc | y Level | Transd | Limit | Margin | Detector | Line | \mathbf{PE} |
| MH | z dBuV | dB | dBuV | dB | | | |
| | | | | | | | |
| 0.15000 | 31.50 | 10.0 | 56 | 24.5 | AV | Ν | FLO |
| 0.19800 | 28.40 | 10.1 | 54 | 25.3 | AV | N | FLO |
| 0.37000 | 28.30 | 10.0 | 49 | 20.2 | AV | N | FLO |
| 0.90200 | 21.90 | 10.1 | 46 | 24.1 | AV | N | FLO |
| 2.04200 | 22.00 | 9.9 | 46 | 24.0 | AV | N | FLO |
| 4.28200 | 24.50 | 10.2 | 46 | 21.5 | AV | N | FLO |

RESULT: PASS



9. ANTENNA CONDUCTED POWER FOR RECEIVERS

<u>LIMIT</u>

The antenna conducted power of the receiver as defined in §15.111 shall not exceed the values given in the following tables

| Frequency Range | 9 KHz to 2GHz |
|-----------------|-------------------|
| Limit | 2.0 nW (-57 dBm) |

TEST CONFIGURATION

| EUT | Spectrum Analyzer |
|-----|-------------------|
| | |

TEST PROCEDURE

- 1. The receiver antenna terminal connected to a spectrum analyzer.
- 2. The test data of the worst case condition (mode 1) was reported on the following Data page.



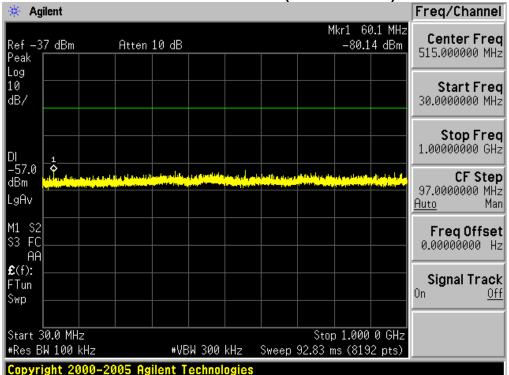
Freq/Channel 莱 Agilent Mkr1 10.0 kHz Center Freq Ref -37 dBm Peak Atten 10 dB -91.80 dBm 79.5000000 kHz Log 10 Start Freq dB/ 9.00000000 kHz Stop Freq 150.000000 kHz DI -57.0 dBm CF Step 14.1000000 kHz LgAv ō Man <u>Auto</u> no ho WW LOW mann L M1 S2 S3 FC FreqOffset 0.00000000 Hz AA £(f): Signal Track f<50k 0n <u> 0ff</u> Swp Stop 150.0 kHz Start 9.0 kHz #Res BW 1 kHz ₩VBW 3 kHz Sweep 134.8 ms (1000 pts) Copyright 2000–2005 Agilent Technologies

Conducted Measurement (9 KHz to 150 KHz)

Conducted Measurement (150 KHz to 30MHz)

| 🔆 Agilent | | | | | Peak Search | |
|--|-------------|---|--------------------------------------|-----------------------------|-----------------------|--|
| Ref -37 dBm Peak | Atten 10 dB | | Mkr1 –8 | . 630 kHz 8.60 dBm | Next Peak | |
| Log 10 dB/ | | | | | Next Pk Right | |
| DI | | | | | Next Pk Left | |
| -57.0 dBm <u>1</u> LgAv Antomatical Antonio | e~/sii-j.e | vitrity lace explored and the second second | workworksfactorish to shake a same a | at the of the sector of the | Min Search | |
| M1 S2 S3 FC AA | | | | | Pk-Pk Search | |
| £(f): FTun Swp | | | | | Mkr → CF | |
| Start 150 kHz #Res BW 10 kHz | #VBW | 30 kHz Swe | Stop 285.3 ms (1 | 30.00 MHz 1000 pts) | More 1 of 2 | |
| Copyright 2000–2005 Agilent Technologies | | | | | | |





Conducted Measurement (30MHz to 1GHz)

Conducted Measurement (1GHz to 2GHz)

| 🔆 Agilent | oonducted if | | | | eq/Channel | |
|--|---|--|-------------------------------|-----------------|--|--|
| Ref -37 dBm Peak | Atten 10 dB | | Mkr1 1.6 -70.1 | 7 dBm | Center Freq 50000000 GHz | |
| Log 10 dB/ | | | | 1.0 | Start Freq 00000000 GHz | |
| | and a shirth site of an internet second | s, and a state of second state of second | | etrester 2.0 | Stop Freq 00000000 GHz | |
| -57.0 dBm LgAv | | | | 10 Aut | CF Step 0.000000 MHz <u>0</u> Man | |
| M1 S2 S3 FC AA | | | | | Freq Offset 00000000 Hz | |
| £ (f): FTun Swp | | | | On | Signal Track Off | |
| Start 1.000 GHz #Res BW 1 MHz | #VBW | 3 MHz Swe | Stop 2.00 ep 2.184 ms (819 | | | |
| Copyright 2000–2005 Agilent Technologies | | | | | | |

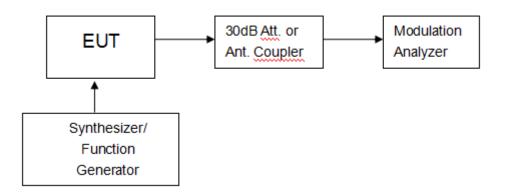
PASS



10. SCANNING RECEIVERS AND FREQUENCY CONVERTERS USED WITH SCANNING RECEIVERS.

Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

TEST CONFIGURATION



TEST PROCEDURE

Please review the FCC Part 15.121 b section requirements to meet the testing process

TEST RESULTS

UHF:

| Frequency Range(MHz) | Channel | Measurement Result (dB) | Limit(dB) | Result |
|-------------------------|---------|----------------------------|-----------|--------|
| 400-470 | Bottom | 51 | >38 | Pass |
| 400-470 | Middle | 45 | >38 | Pass |
| 400-470 | Тор | 45 | >38 | Pass |

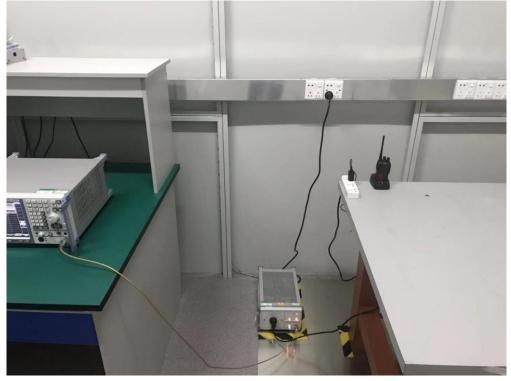
Note:1.This device meets the requirements of FCC PART 15.121.b

2. The test report only shows the worst test results



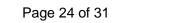
APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

CONDUCTED EMISSION TEST SETUP

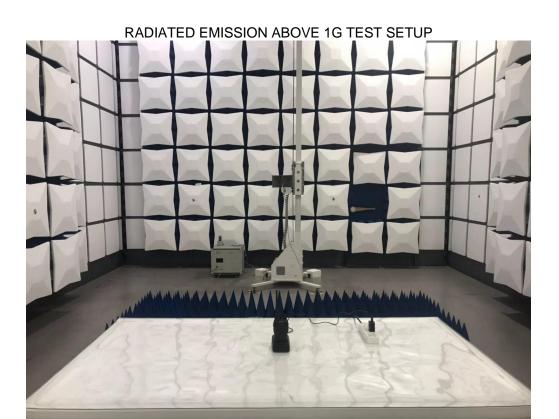


RADIATED EMISSION TEST SETUP











APPENDIX 2 PHOTOGRAPHS OF EUT

TOTAL VIEW-1 OF EUT



TOTAL VIEW-2 OF EUT



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BOTTOM VIEW OF EUT



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BACK VIEW OF EUT









RIGHT VIEW OF EUT



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OPEN VIEW-2 OF EUT



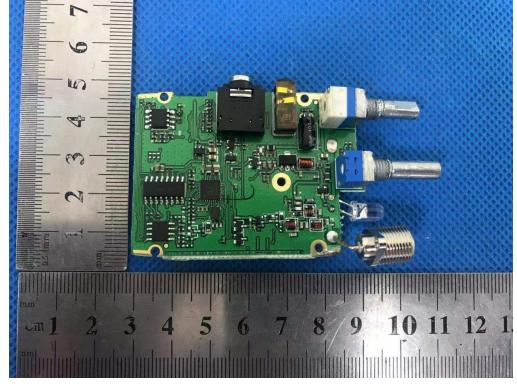
Report No.: HK1811151587E





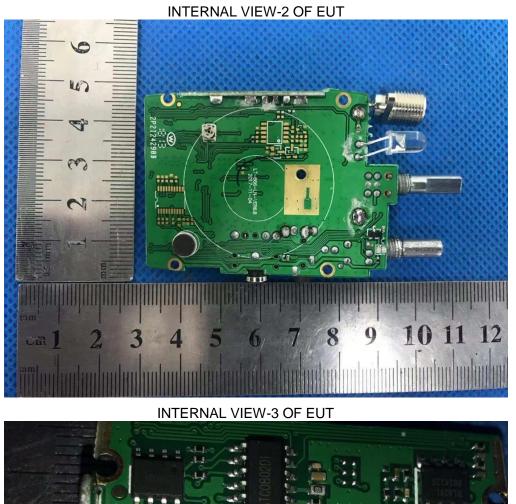
OPEN VIEW-3 OF EUT

INTERNAL VIEW-1 OF EUT



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