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FCC TEST REPORT

FCC ID · ZTJ-UH5

: Shenzhen Uniwisdom Technologies Co., Ltd. **Applicant**

Address : Bldg.91-94 3rd Industrial Zone, Lisonglang, Gongming Town, Bao'an

District, Shenzhen, P.R.China

Equipment Under Test (EUT):

Product Name : Wireless Microphone System Model No. : UH-5; PV-1 U1 HH(Transmitter)

Standards : FCC Part 15 Subpart C:2009

: July 18, 2011 ~ July 20, 2011 **Date of Test**

Date of Issue : July 26, 2011

: Hunk yan **Test Engineer**

Tarlo zhang : Philo zhong **Reviewed By**

Test Result : PASS

Prepared By:

Waltek Services (Shenzhen) Co., Ltd.

1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen 518105, China

> Tel:+86-755-27553488 Fax:+86-755-27553868

♦ The sample detailed above has been tested to the requirements of Council Directives ANSI C63.4:2003. The test results have been reviewed against the Directives above and found to meet their essential requirements.

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2 Test Summary

| FCC Part 15 Subpart C Requirements | | | | | | | |
|---|------------------|------------------|------|--|--|--|--|
| Test Items | Test Requirement | Result | | | | | |
| Conducted Emission (150KHz to 30MHz) | FCC Part 15.207 | ANSI C63.4: 2003 | N/A | | | | |
| Radiated Emission (30MHz to 10GHz) | FCC Part 15.209 | ANSI C63.4: 2003 | PASS | | | | |
| 20dB Bandwidth | FCC Part 15.249 | ANSI C63.4: 2003 | PASS | | | | |

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4 General Information

4.1 Client Information

Applicant: Shenzhen Uniwisdom Technologies Co., Ltd.

Address of Applicant : Bldg.91-94 3rd Industrial Zone, Lisonglang, Gongming Town, Bao'an

District, Shenzhen, P.R.China

Manufacturer : Shenzhen Uniwisdom Technologies Co., Ltd.

Address of Manufacturer: Bldg.91-94 3rd Industrial Zone, Lisonglang, Gongming Town, Bao'an

District, Shenzhen, P.R.China

4.2 General Description of E.U.T.

Product Name : Wireless Microphone System

Model No. : UH-5; PV-1 U1 HH(Transmitter)

Differences describe : The two models have the same circuit and apparence, they only have different

model number.

Operation Frequency : 906MHz ~ 928MHz

4.3 Details of E.U.T.

Technical Data: : DC 9.0V Battery

4.4 Description of Support Units

The EUT has been tested as an independent unit. All the test was performed in the condition of DC 9.0V input.

4.5 Standards Applicable for Testing

The customer requested FCC tests for a Wireless Microphone System. The standards used were FCC Part 15 Subpart C:2009.

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4.6 Test Facility

The test facility has a test site registered with the following organizations:

• IC – Registration No.: IC7760A

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A, Aug.03, 2010.

• FCC – Registration No.: 880581

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, May 26, 2011.

4.7 Test Location

All the tests were performed at:

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen, China

5 Equipment Used during Test

| Equipment | Manufacturer | Equipment | Internal No | Specification | Cal. | Due | Cert. No | Uncertainty |
|--|--|--|-------------|---|--------------|--------------|-----------------|---|
| Name EMC | Model | No N | | ~ P * * * * * * * * * * * * * * * * * * | Date | Date | | |
| Analyzer | Agilent/ E7405A | MY451149 43 | W2008001 | 9k-26.5GHz | Aug- 2010 | Aug- 2011 | Wws200 81596 | ±1dB |
| Trilog Broadband Antenne | SCHWARZB ECK MESS- ELEKTROM / VULB9163 | 336 | W2008002 | 30-3000 MHz | Aug- 2010 | Aug- 2011 | - | ±1dB |
| Broad- band Horn Antenna | SCHWARZB ECK MESS- ELEKTROM / BBHA 9120D(1201) | 667 | W2008003 | 1-18GHz | Aug- 2010 | Aug- 2011 | - | f<10 GHz: ±1dB 10GHz <f< 18 GHz: ±1.5dB</f< |
| Broadband Preamplifie r | SCHWARZB ECK MESS- ELEKTROM / BBV 9718 | 9718-148 | W2008004 | 0.5-18GHz | Aug- 2010 | Aug- 2011 | - | ±1.2dB |
| 10m Coaxial Cable with N-male Connectors | SCHWARZB ECK MESS- ELEKTROM / AK 9515 H | - | - | - | Aug- 2010 | Aug- 2011 | - | - |
| 10m 50 Ohm Coaxial Cable | SCHWARZB ECK MESS- ELEKTROM / AK 9513 | - | - | - | Aug- 2010 | Aug- 2011 | - | - |
| Positioning Controller | C&C LAB/ CC-C-IF | - | - | - | N/A | N/A | - | - |
| Color Monitor | SUNSPO/ SP-14C | - | - | - | N/A | N/A | - | - |
| Test Receiver | ROHDE&SC HWARZ/ ESPI | 101155 | W2005001 | 9k-3GHz | Aug- 2010 | Aug- 2011 | Wws200 80942 | ±1dB |
| EMI Receiver | Beijingkehua n | KH3931 | - | 9k-1GHz | Aug- 2010 | Aug- 2011 | - | - |
| Two-Line V-Network | ROHDE&SC HWARZ/ ENV216 | 100115 | W2005002 | 50Ω/50μΗ | Aug- 2010 | Aug- 2011 | Wws200 80941 | ±10% |
| Digital Power Analyzer | Em Test AG/Switzerla nd/ DPA 500 | V07451 03095 | W2008012 | Power: 2000VA Vol-range: 0- 300V Freq_range: 10-80Hz | Aug- 2010 | Aug- 2011 | Wwd200 81185 | Voltage distinguish:0 .025% Power_freq |
| Power Source | Em Test AG/Switzerla nd/ ACS 500 | V07451 03096 | W2008013 | Vol-range: 0- 300V Power_freq: 10-80Hz | | | | distinguish:0 .02Hz |

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| Equipment | Manufacturer | Equipment | T 4 137 | G 'C '. | Cal. | Due | C AN | TT 4 |
|--|----------------------------|-----------|-------------|--|--------------|--------------|-----------------|--|
| Name | Model | No | Internal No | Specification | Date | Date | Cert. No | Uncertainty |
| RF Generator | TESEQ GmbH/ NSG4070 | 25781 | W2008008 | Fraq-range: 9K-1GHz RF voltage: - 60 dBm- +10dBm | Aug- 2010 | Aug- 2011 | Wws200 81890 | Power_freq distinguish0. 1Hz RFeletricity distinguish 0.1 B |
| CDN M- Type | TESEQ GmbH/ CDN M016 | 25112 | W2008009 | Voltage correct factor 9.5 dB | Aug- 2010 | Aug- 2011 | Wwc200 82396 | 150K- 80MHz: ±1dB 80- 230MHz:-2- +3dB |
| EM-Clamp | TESEQ GmbH/ KEMZ 801 | 25453 | W2008010 | Freq_range: 0.15-1000 MHz | Aug- 2010 | Aug- 2011 | Wwc200 82397 | 0.3-400 MHz: ±4dB Other freq: ±5dB |
| Attenuator 6dB | TESEQ GmbH/ ATN6050 | 25365 | - | - | Aug- 2010 | Aug- 2011 | Wws200 81597 | - |
| All Modules Generator | SCHAFFNE R/6150 | 34579 | W2008006 | voltage:200V- 4.4KV Pulse current: 100A-2.2KA | Aug- 2010 | Aug- 2011 | Wwc200 82401 | voltage: ±10% Pulse current: ±10% |
| Capacitive Coupling Clamp | SCHAFFNE R/ CDN 8014 | 25311 | - | - | Aug- 2010 | Aug- 2011 | Wwc200 82398 | - |
| Signal and Data Line Coupling Network | SCHAFFNE R/CDN 117 | 25627 | W2008011 | 1.2/50μS | Aug- 2010 | Aug- 2011 | Wwc200 82399 | - |

6 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. This product has a permanent antenna, fulfill the requirement of this section.

7 Conducted Emission

Test Requirement: FCC Part15.207
Test Method: ANSI C63.4:2003

Test Result: N/A

Remark: Because the EUT is DC input, this test is not applicable.

8 Radiation Emission Data

Test Requirement: FCC Part15.249
Test Method: ANSI C63.4:2003

Test Result: PASS

Frequency Range: 30MHz to 10GHz

Measurement Distance: 3m

8.1 Test Equipment

Plesse refer to Section 5 of this report.

8.2 Measurement Uncertainty

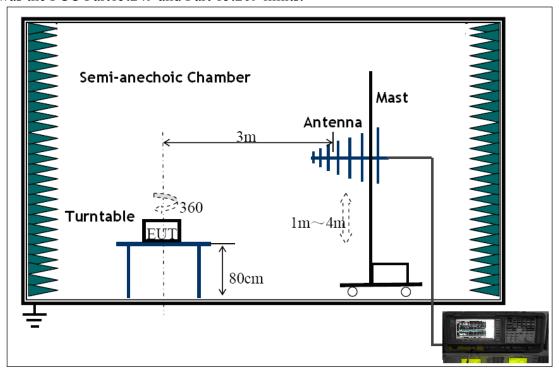
All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Waltek EMC Lab is ± 5.03 dB.

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8.3 EUT Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15.249 and Part 15.209 limits.



The EUT was placed on the test table in shielding room.

8.4 Spectrum Analyzer Setup

According to FCC Part15 B Rules, the system was tested 30 to 10000MHz.

Below 1GHz

| Start Frequency | 30 MHz |
|------------------------------|---------|
| Stop Frequency | 1000MHz |
| Sweep Speed | Auto |
| IF Bandwidth | 120 KHz |
| Video Bandwidth | 100KHz |
| Quasi-Peak Adapter Bandwidth | 120 KHz |
| Quasi-Peak Adapter Mode | Normal |
| Resolution Bandwidth | 100KHz |

Above 1GHz

| Start Frequency | . 1000 MHz |
|------------------------------|------------|
| Stop Frequency | .10000MHz |
| Sweep Speed | . Auto |
| IF Bandwidth | .120 KHz |
| Video Bandwidth | .1MHz |
| Quasi-Peak Adapter Bandwidth | .120 KHz |
| Quasi-Peak Adapter Mode | . Normal |
| Resolution Bandwidth | .1MHz |

8.5 Test Procedure

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level
- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The radiation measurements are performed in X(normal uses) axis positioning. And all the modes was tested in the report. Only the worst case is shown in the report.

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8.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-7dB\mu V$ means the emission is $7dB\mu V$ below the maximum limit for Class B. The equation for margin calculation is as follows:

8.7 Radiated Emissions Limit

A. FCC Part 15.249 Limit

| Fundamental Frequency | Field Strength of | Fundamental | Field Strength of Harmonic | | |
|------------------------------|-------------------|-------------|----------------------------|--------|--|
| (MHz) | mV/m | dBuV/m | uV/m | dBuV/m | |
| 902 – 928 | 50 | 94 | 500 | 54 | |
| 2400 – 2483.5 | 50 | 94 | 500 | 54 | |
| 5725 – 5875 | 50 | 94 | 500 | 54 | |
| 24000 - 24250 | 250 | 108 | 2500 | 68 | |

Note: (1) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

- (2)The emission limit in this paragraph is based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- (3) Above 1GHz,do a Peak and average measurements for all emissions,Limit for peak is 94dBuvV/m,According to Part15.35(b) and average is 54BuvV/m.
- (4) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation

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B. FCC Part 15.209 Limit

| Frequency (MHz) | Distance (m) | Field Strength (dBuV/m) |
|-----------------|--------------|-------------------------|
| 30 – 88 | 3 | 40.0 |
| 88 – 216 | 3 | 43.5 |
| 216 – 960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note: (1) In the Above Table, the tighter limit applies at the band edges.

(2) Distance refers to the distance in meters between the measuring instrument antenna.

8.8 Test Results

Formula of conversion factors: the field strength at 3m was established by adding The meter reading of the spectrum analyzer (which is set to read in units of dBuV) To the antenna correction factor supplied by the antenna manufacturer. The antenna Correction factors are stared in terms of dB. The gain of the pressletor was accounted For in the spectrum analyser meter reading.

Example:

Freq(MHz) Meter Reading +ACF=FS

33 20dBuV+10.36dB=30.36dBuV/m @3m

Radiated Emission Test Data

Test Mode: TX On
Temperature: 25.5 °C
Humidity: 51%RH
Test Result: PASS

Test Data

| Frequency (MHz) | Detector | Ant. Pol | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Turntabl e Angle (°) | |
|-----------------|--------------------------|-------------|-------------------------|----------------|-------------|--------------------------|----------------------------|--|
| | Low Channel: 906MHz | | | | | | | |
| 906.00 | Peak | V | 104.42 | 114.00 | -9.58 | 1.0 | 95 | |
| 1812.00 | Peak | V | 48.28 | 74.00 | -25.72 | 1.1 | 270 | |
| 2718.00 | Peak | V | 46.37 | 74.00 | -27.63 | 1.0 | 160 | |
| 4530.00 | Peak | V | 44.72 | 74.00 | -29.28 | 1.2 | 220 | |
| 6342.00 | Peak | V | 44.26 | 74.00 | -29.74 | 1.1 | 180 | |
| 8154.00 | Peak | V | 42.15 | 74.00 | -31.85 | 1.4 | 210 | |
| 906.00 | Peak | Н | 96.25 | 114.00 | -17.75 | 1.8 | 240 | |
| 1812.00 | Peak | Н | 47.33 | 74.00 | -26.67 | 1.5 | 80 | |
| 2718.00 | Peak | Н | 46.39 | 74.00 | -27.61 | 2.0 | 190 | |
| 4530.00 | Peak | Н | 46.12 | 74.00 | -27.88 | 2.2 | 140 | |
| 6342.00 | Peak | Н | 44.13 | 74.00 | -29.87 | 1.9 | 60 | |
| 8154.00 | Peak | Н | 41.86 | 74.00 | -32.14 | 1.7 | 310 | |
| 906.00 | AVG | V | 88.52 | 94.00 | -5.48 | 1.0 | 95 | |
| 1812.00 | AVG | V | 37.14 | 54.00 | -16.86 | 1.1 | 270 | |
| 2718.00 | AVG | V | 36.12 | 54.00 | -17.88 | 1.0 | 160 | |
| 4530.00 | AVG | V | 32.15 | 54.00 | -21.85 | 1.2 | 220 | |
| 6342.00 | AVG | V | 31.87 | 54.00 | -22.13 | 1.1 | 180 | |
| 8154.00 | AVG | V | 30.61 | 54.00 | -23.39 | 1.4 | 210 | |
| 906.00 | AVG | Н | 84.37 | 94.00 | -9.63 | 1.8 | 240 | |
| 1812.00 | AVG | Н | 36.24 | 54.00 | -17.76 | 1.5 | 80 | |
| 2718.00 | AVG | Н | 34.26 | 54.00 | -19.74 | 2.0 | 190 | |
| 4530.00 | AVG | Н | 33.75 | 54.00 | -20.25 | 2.2 | 140 | |
| 6342.00 | AVG | Н | 32.20 | 54.00 | -21.80 | 1.9 | 60 | |
| 8154.00 | AVG | Н | 30.47 | 54.00 | -23.53 | 1.7 | 310 | |
| | Middle Channel: 915.4MHz | | | | | | | |
| 915.40 | Peak | V | 104.14 | 114.00 | -9.86 | 1.2 | 100 | |
| 1830.80 | Peak | V | 49.52 | 74.00 | -24.48 | 1.4 | 120 | |

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| | | | 1 | 1 | | • | , |
|----------|------|-----|------------|------------|--------|-----|-----|
| 2746.20 | Peak | V | 47.81 | 74.00 | -26.19 | 1.5 | 280 |
| 4577.00 | Peak | V | 45.12 | 74.00 | -28.88 | 1.3 | 75 |
| 6407.80 | Peak | V | 44.32 | 74.00 | -29.68 | 1.1 | 160 |
| 8238.60 | Peak | V | 42.14 | 74.00 | -31.86 | 1.5 | 240 |
| 915.40 | Peak | Н | 94.96 | 114.00 | -19.04 | 2.0 | 90 |
| 1830.80 | Peak | Н | 48.02 | 74.00 | -25.98 | 1.8 | 160 |
| 2746.20 | Peak | Н | 45.89 | 74.00 | -28.11 | 1.9 | 80 |
| 457 7.00 | Peak | Н | 43.15 | 74.00 | -30.85 | 2.2 | 270 |
| 6407.80 | Peak | Н | 41.76 | 74.00 | -32.24 | 2.1 | 300 |
| 8238.60 | Peak | Н | 41.12 | 74.00 | -32.88 | 1.7 | 210 |
| 915.40 | AVG | V | 88.36 | 94.00 | -5.64 | 1.2 | 100 |
| 1830.80 | AVG | V | 38.78 | 54.00 | -15.22 | 1.4 | 120 |
| 2746.20 | AVG | V | 35.32 | 54.00 | -18.68 | 1.5 | 280 |
| 4577.00 | AVG | V | 34.55 | 54.00 | -19.45 | 1.3 | 75 |
| 6407.80 | AVG | V | 32.50 | 54.00 | -21.50 | 1.1 | 160 |
| 8238.60 | AVG | V | 31.02 | 54.00 | -22.98 | 1.5 | 240 |
| 915.40 | AVG | Н | 82.64 | 94.00 | -11.36 | 2.0 | 90 |
| 1830.80 | AVG | Н | 36.10 | 54.00 | -17.90 | 1.8 | 160 |
| 2746.20 | AVG | Н | 33.58 | 54.00 | -20.42 | 1.9 | 80 |
| 4577.00 | AVG | Н | 32.14 | 54.00 | -21.86 | 2.2 | 270 |
| 6407.80 | AVG | Н | 30.03 | 54.00 | -23.97 | 2.1 | 300 |
| 8238.60 | AVG | Н | 29.95 | 54.00 | -24.05 | 1.7 | 210 |
| | | Hiş | gh Channel | l: 927.2MI | Hz | | |
| 927.20 | Peak | V | 103.96 | 114.00 | -10.04 | 1.5 | 250 |
| 1854.40 | Peak | V | 49.27 | 74.00 | -24.73 | 1.2 | 130 |
| 2781.60 | Peak | V | 48.74 | 74.00 | -25.26 | 1.0 | 230 |
| 4636.00 | Peak | V | 46.60 | 74.00 | -27.40 | 1.4 | 140 |
| 6490.40 | Peak | V | 45.84 | 74.00 | -28.16 | 1.6 | 40 |
| 8344.80 | Peak | V | 43.42 | 74.00 | -30.58 | 1.0 | 200 |
| 927.20 | Peak | Н | 94.15 | 114.00 | -19.85 | 2.4 | 210 |
| 1854.40 | Peak | Н | 47.21 | 74.00 | -26.79 | 2.1 | 140 |
| 2781.60 | Peak | Н | 46.08 | 74.00 | -27.92 | 1.9 | 220 |
| 4636.00 | Peak | Н | 45.14 | 74.00 | -28.86 | 1.7 | 50 |
| | | | | | | | |

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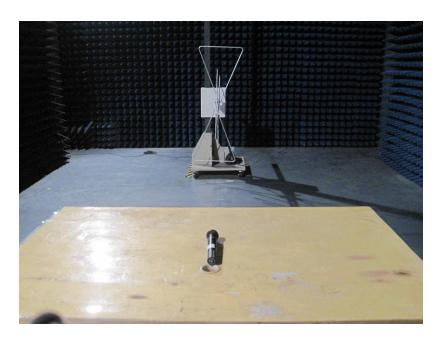
Page:15 of 23

| 6490.40 | Peak | Н | 43.09 | 74.00 | -30.91 | 2.0 | 330 |
|---------|------|---|-------|-------|--------|-----|-----|
| 8344.80 | Peak | Н | 42.22 | 74.00 | -31.78 | 2.2 | 80 |
| 927.20 | AVG | V | 87.98 | 94.00 | -6.02 | 1.5 | 250 |
| 1854.40 | AVG | V | 38.16 | 54.00 | -15.84 | 1.2 | 130 |
| 2781.60 | AVG | V | 36.95 | 54.00 | -17.05 | 1.0 | 230 |
| 4636.00 | AVG | V | 34.48 | 54.00 | -19.52 | 1.4 | 140 |
| 6490.40 | AVG | V | 33.59 | 54.00 | -20.41 | 1.6 | 40 |
| 8344.80 | AVG | V | 31.19 | 54.00 | -22.81 | 1.0 | 200 |
| 927.20 | AVG | Н | 83.25 | 94.00 | -10.75 | 2.4 | 210 |
| 1854.40 | AVG | Н | 35.33 | 54.00 | -18.67 | 2.1 | 140 |
| 2781.60 | AVG | Н | 34.11 | 54.00 | -19.89 | 1.9 | 220 |
| 4636.00 | AVG | Н | 33.51 | 54.00 | -20.49 | 1.7 | 50 |
| 6490.40 | AVG | Н | 31.74 | 54.00 | -22.26 | 2.0 | 330 |
| 8344.80 | AVG | Н | 30.36 | 54.00 | -23.64 | 2.2 | 80 |

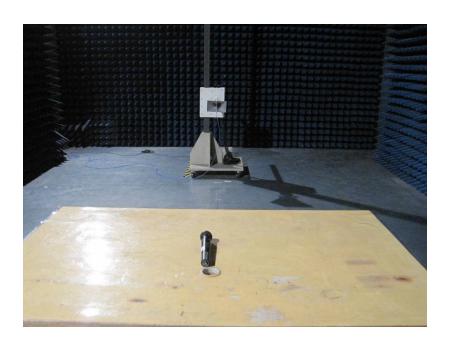
FCC ID: ZTJ-UH5

8.9 Photograph – Radiation Emission Test Setup

Below 1GHz



Above 1GHz



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9 20 dB Bandwidth

9.1 Test Equipment

Please refer to Section 5 of this report

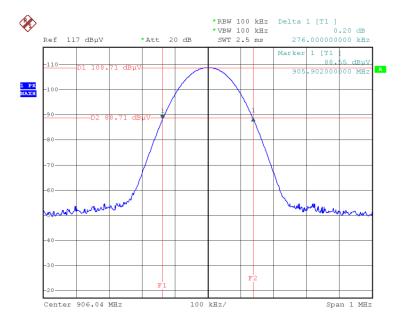
9.2 Test Procedure

- 1. The EUT, peripherals were put on the turntable which table size is 1mX1.5m, table high 0.8m. All set up is according to ANSI C63.4: 2003.
- 2. The bandwidth of the fundamental frequency was measure by spectrum analyser with 100KHz RBW and 100KHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power 20dB.

9.3 Test Result

| Frequency (MHz) | Bandwidth (kHz) |
|-----------------|-----------------|
| 906.0 | 276 |
| 915.4 | 276 |
| 927.2 | 274 |

Remark: The follow graph show the worst case 906MHz only.



10 Photographs - Constructional Details

10.1 EUT – Front View



10.2 EUT – Back View

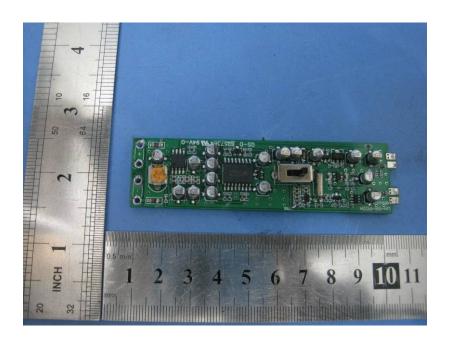


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10.3 EUT – Open View

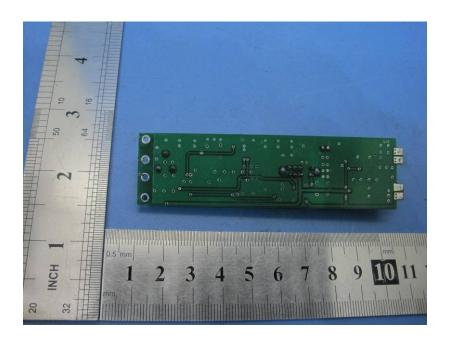


10.4 PCB1 – Front View

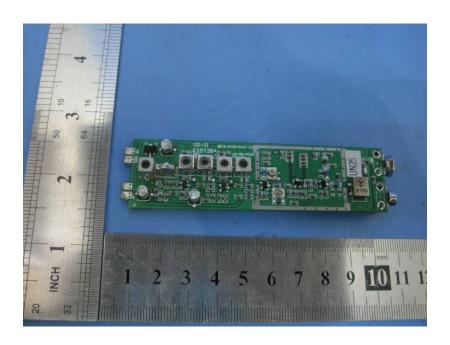


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10.5 PCB1 – Back View

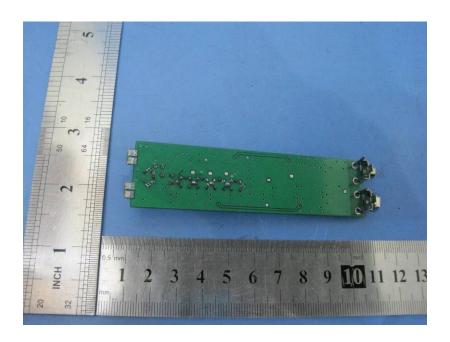


10.6 PCB2 – Front View

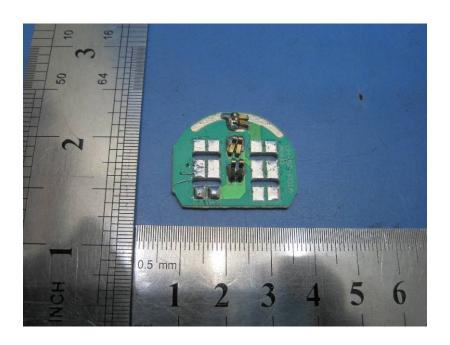


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10.7 PCB2 – Back View

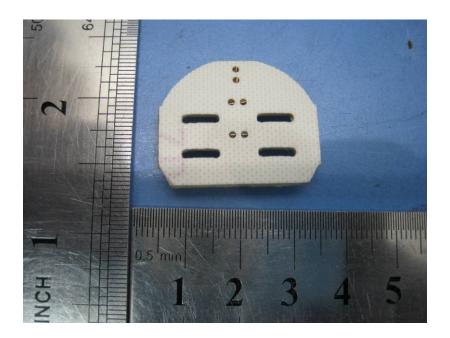


10.8 PCB3 – Front View



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10.9 PCB3 – Back View



11 FCC Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference,and (2) this device must accept any interference received, including interference that may cause undesired operation. The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

