FCC TEST REPORT

for

Shenzhen Wisky Technology Co.Ltd

MID

Model No. : M818, M8XX(XX represent 00~99), PC7068, PC7001,

MOMO7, MOMO11, MT1670, MD11, MD89, T818, T808 They are quite same in circuit design and PCB layout, so all

tests of this report are perform modelM818.

FCC ID : Y5K-M8XX

Operating Frequency

2412MHz - 2462MHz

Antenna gain 2.3gB

Applicant : Shenzhen Wisky Technology Co.LTD

Room 1810, Block B, Zhongshen Garden, Caitian South

Road, Shenzhen.

Regulation: FCC Part 15.247 Subpart C

Prepared by : Shenzhen AOV Testing Technology Co., Ltd.

2-6/F, No.5, Yuantou Lane, Tanglang, Taoyuan Street,

Nanshan District, Shenzhen ,Guangdong, China

Test Date : August 01-11, 2011

Date of Report: August 11, 2011

TABLE OF CONTENT

| Description |
|--------------------------------|
| Test Report Declaration |

Page

| ١. | GE | ENERAL INFORMATION | |
|----|--------------|--|----------|
| | 1.1 | General Information | 5 |
| | 1.2 | Test Facility | 5 |
| | 1.3 | Test Summary | |
| | 1.4 | Test Instrument Used | <i>6</i> |
| 2. | PC | OWERLINE CONDUCTED EMISSION TEST | |
| | 2.1. | Test Standard | |
| | 2.2. | Limits | |
| | 2.3. | Test Procedure | |
| | 2.4. | Test Result | |
| 3. | MA | AXIMUM PEAK OUTPUT POWER | 10 |
| | 3.1. | Rules Part No. | |
| | 3.2. | Limits | |
| | 3.3. | Test Procedure | |
| | 3.4. | Test Result | |
| 4 | | AND EDGE | |
| | 4.1. | Rules Part No. | |
| | 4.2. | Limits | |
| | 4.3. | Test Procedure | |
| | 4.4. | Test Result | |
| 5 | | F ANTENNA CONDUCTED SPURIOUS EMISSIONS | |
| J. | 5.1. | Rules Part No. | |
| | 5.1. 5.2. | Limits | |
| | 5.2. | Test Procedure | |
| | 5.4. | Test Result | |
| 6. | | DB BANDWIDTH | |
| 0. | 6.1. | Rules Part No. | |
| | 6.2. | Limits | |
| | 6.3. | Test Procedure | |
| | 6.4. | Test Result | |
| 7. | | POWER DENSITY | |
| 7. | | | |
| | 7.1. | Rules Part No. | |
| | 7.2. 7.3. | Limits Test Procedure | |
| | 7.3. 7.4. | Test Result | - |
| _ | | | |
| 8. | | RADIATION INTERFERENCE | |
| | 8.1. | Rules Part No. | |
| | 8.2. | Limits | |
| | 8.3. | Test Procedure | |
| | 8.4. | Test Result | |
| 9. | | RESTRICTED BANDS OF OPERATION | 40 |

| 10. | ANTENNA REQUIREMENT41 |
|-----|-----------------------|
| 11. | PHOTOGRAPH OF TEST42 |

TEST REPORT DECLARATION

Applicant : Shenzhen Wisky Technology Co.LTD

Manufacturer : Shenzhen Wisky Technology Co.LTD

EUT Description: MID

Test Procedure Used: FCC Part 15.247 Subpart C

The E. U. T. listed below has been completed RF testing by Shenzhen AOV Testing Technology Co., Ltd at the test site of Bontek Compliance Testing Laboratory Ltd. And the Interference emissions can pass FCC CLASS B limitations.

The test configurations and the facility comply with the radiated test site criteria in **ANSI C63.4-2009**.

| Date of Test: | August 01-11, 2011 | |
|---------------|---|--|
| Prepared by: | rings berg | |
| • | Yang Tun Bo, Kingsley Project Engineer | |
| Reviewed by: | tons. | |
| j | Chen Chu Peng, Kait | |
| | Project Supervisor | |
| | Keenshle | |
| Approved by: | | |
| | Lv Jie Hua, Jeewah | |
| | Technical Director | |

1. GENERAL INFORMATION

1.1 General Information

Applicant : Shenzhen Wisky Technology Co.LTD

Room 1810, Block B, Zhongshen Garden, Caitian South

Road, Shenzhen.

Manufacturer: Shenzhen Wisky Technology Co.LTD

Room 1810, Block B, Zhongshen Garden, Caitian South

Road, Shenzhen.

1.2 Test Facility

Test Firm : Bontek Compliance Testing Laboratory Ltd.

Certificated by FCC, Registration No.: 338263

Address : FL.1, Building H-3, Hua Qiao Cheng East Industrial Area

Qiaocheng East Road, Nanshan, Shenzhen, P.R.China

Tel : 86-755-86337020 Fax : 86-755-86337028

1.3 Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart C Section 15.247 for Emissions

Tests Carried Out Under FCC Part 15 Subpart C

| FCC Rules | Description Of Test | Result |
|---------------------|--------------------------------------|-----------|
| §15.247(a)(2) | 6dB Bandwidth | Compliant |
| §15.247(b) | Max peak output power test | Compliant |
| §15.247(e) | Power Density | Compliant |
| §15.247(d) | Band edge test | Compliant |
| §15.207 | Power Line Conducted Emission | Compliant |
| §15.247(d), §15.209 | Radiated interference | Compliant |
| §15.203 | Antenna conducted Spurious Emissions | Compliant |
| §15.109 | Antenna Requirement | Compliant |

1.4 Test Instrument Used

| No. | Equipment | Manufacturer | Model No. | S/N | Cal. Date | Cal. Due Date |
|-----|-----------------------------------|---------------------|--------------------------------|--------------------|------------|---------------|
| 1. | EMI Test Receiver | R&S | ESPI | 100097 | 2010-11-22 | 2011-11-22 |
| 2. | Single Power Conductor Module | FCC | FCC-LISN-5-50-1 -01-CISPR25 | 07101 | 2010-11-22 | 2011-11-22 |
| 3. | EMI Test Receiver | R&S | ESCI | 100687 | 2010-11-22 | 2011-11-22 |
| 4. | EMI Test Receiver | R&S | FSU | BCT-019 | 2010-11-22 | 2011-11-22 |
| 5. | Amplifier | HP | 8447D | 1937A02492 | 2010-11-22 | 2011-11-22 |
| 6. | TRILOG Broadband Test-Antenna | SCHWARZBECK | VULB9163 | 9163-324 | 2010-11-22 | 2011-11-22 |
| 7. | Horn Antenna | SCHWARZBECK | BBHA9120A | B08000991-000 1 | 2010-11-22 | 2011-11-22 |
| 8. | High Field Biconical Antenna | ELECTRO-METRI CS | EM-6913 | 166 | 2010-11-22 | 2011-11-22 |
| 9. | Log Periodic Antenna | ELECTRO-METRI CS | EM-6950 | 811 | 2010-11-22 | 2011-11-22 |
| 10. | Remote Active Vertical Antenna | ELECTRO-METRI CS | EM-6892 | 304 | 2010-11-22 | 2011-11-22 |
| 11. | Teo Line Single Phase Module | SCHWARZBECK | NSLK8128 | D-69250 | 2010-11-22 | 2011-11-22 |
| 12. | Positioning Controller | C&C | CC-C-1F | MF7802113 | 2010-11-22 | 2011-11-22 |
| 13. | Triple-Loop Antenna | EVERFINE | LLA-2 | 607004 | 2010-11-22 | 2011-11-22 |
| 14. | 10dB attenuator | SCHWARZBECK | MTAIMP-136 | R65.90.0001#06 | 2010-11-22 | 2011-11-22 |

2. POWERLINE CONDUCTED EMISSION TEST

2.1.Test Standard

15.207

2.2.Limits

| Frequency | Limi | its (dBμV) |
|--------------|------------------|---------------|
| MHz | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66 ~ 56* | 56 ~ 46* |
| 0.50 ~ 5.00 | 56 | 46 |
| 5.00 ~ 30.00 | 60 | 50 |

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

2.3.Test Procedure

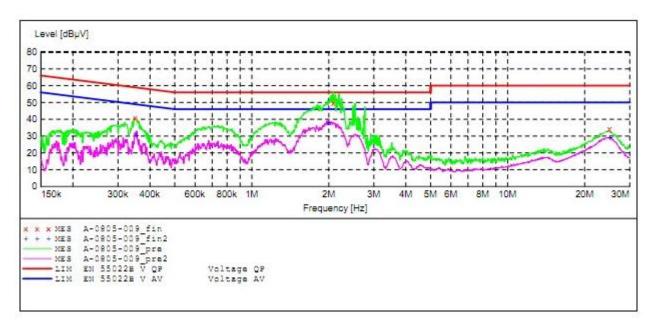
The EUT is put on the table that is 0.8m high above the ground and at least away from other Metallic surface 0.4m. The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohms coupling impedance for the testing equipment; and the peripheral equipment powers form other L.I.S.N. Please refer to the block diagram of the test setup and photographs. Both sides of AC line (Line & Neutral) are checked for maximum conducted interference. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables must be changed according to FCC part 15 B.

2.4.Test Result

PASS

Power Line Conducted Emission

| Engineer : Andy | |
|-----------------------|-------------------|
| EUT : MID | Time : 2011/08/05 |
| Limit : FCC Part 15B | Comment : 22℃/55% |
| MN: M818 | Note : L |
| Power : AC 120V, 60Hz | |



MEASUREMENT RESULT:

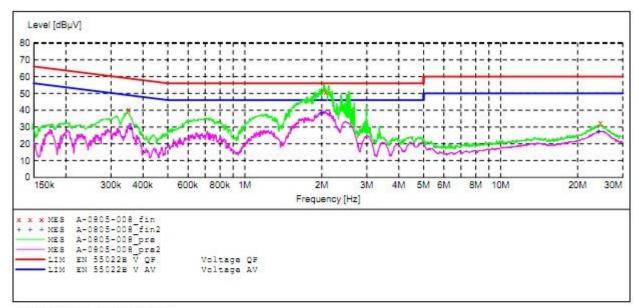
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.349654 | 41.00 | 11.7 | 59 | 18.0 | QP | Ll | GND |
| 2.082610 | 49.90 | 11.7 | 56 | 6.1 | QP | Ll | GND |
| 25.044426 | 34.10 | 11.0 | 60 | 25.9 | QP | Ll | GND |
| | | | | | | | |

MEASUREMENT RESULT:

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|----------|------------|
| 0.355282 | 30.20 | 11.7 | 49 46 | 18.6 | AV AV | L1 L1 | GND GND |
| 25.144604 | 28.70 | 11.0 | 50 | 21.3 | AV | 1.1 | GND |

Power Line Conducted Emission

| Engineer : Andy | |
|-----------------------|-------------------|
| EUT : MID | Time : 2011/08/05 |
| Limit : FCC Part 15B | Comment : 22℃/55% |
| MN: M818 | Note : N |
| Power : AC 120V, 60Hz | |



MEASUREMENT RESULT:

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.351053 | 40.40 | 11.7 | 59 | 18.5 | QP | N | GND |
| 2.074313 | 51.10 | 11.7 | 56 | 4.9 | QP | N | GND |
| 24.549492 | 32.40 | 11.0 | 60 | 27.6 | QP | N | GND |

MEASUREMENT RESULT:

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.358130 | 29.00 | 11.7 | 49 | 19.8 | AV | N | GND |
| 1.993137 | 38.40 | 11.7 | 46 | 7.6 | AV | N | GND |
| 24.160597 | 27.00 | 11.1 | 50 | 23.0 | AV | N | GND |

3. MAXIMUM PEAK OUTPUT POWER

3.1.Rules Part No.

15.247(b)

3.2.Limits

The maximum peak output power measurement is 1w (30dBm).

3.3.Test Procedure

The antenna of the EUT was connected to the RF input cord of power meter with a coaxial cable, power was read directly from the meter and cable loss was added to the reading to obtain power at the EUT antenna terminal. The EUT output power was set to maximum to produce the worse case test result.

3.4.Test Result

PASS

Detailed information, Please refer to the following page.

Operation Mode:802.11b

Temperature:25 °C Humidity: 56%

| Channel | Frequency (MHz) | Peak output power (dBm) | Limit (dBm) |
|---------|--------------------|-------------------------|----------------|
| 1 | 2412 | 11.78 | 30 |
| 6 | 2437 | 12.05 | 30 |
| 11 | 2462 | 11.89 | 30 |

Operation Mode:802.11g

Temperature:25 °C Humidity: 56%

| Channel | Frequency (MHz) | Peak output power (dBm) | Limit (dBm) |
|---------|--------------------|-------------------------|----------------|
| 1 | 2412 | 10.31 | 30 |
| 6 | 2437 | 10.46 | 30 |
| 11 | 2462 | 10.32 | 30 |

Operation Mode:802.11n

Temperature:25 °C Humidity: 56%

| Channel | Frequency (MHz) | Peak output power (dBm) | Limit (dBm) |
|---------|--------------------|-------------------------|----------------|
| 1 | 2412 | 9.95 | 30 |
| 6 | 2437 | 9.67 | 30 |
| 11 | 2462 | 9.78 | 30 |

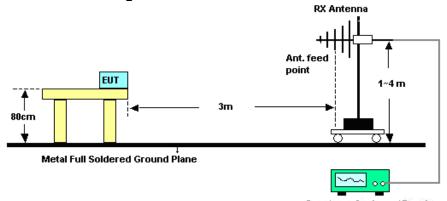
4. BAND EDGE

4.1.Rules Part No.

15.247(c) Test Method: ANSI C63.4:2003 and KDB DA00-705

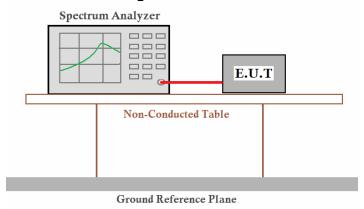
Test setup:

<Radiated Band Edges>



Spectrum Analyzer / Receiver

<Conducted Band Edges>



Test mode: Transmitting mode

Temperature: 25~27°C Relative Humidity: 48~51%

4.2.Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

4.3.Test Procedure

- 1. The testing follows the guidelines in ANSI C63.4-2003 and FCC Public Notice DA 00-705 Measurement Guidelines.
- 2. RF antenna conducted test: Set RBW = 300kHz, Video bandwidth (VBW) RBW. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 300k Hz RBW. Note: If the device complies with the use of power option 2 the attenuation under this paragraph shall be 30 dB instead of 20 dB.
- 3. Radiated emission test: Applies to band edge emissions that fall in the restricted bands listed in FCC Section 15.205. The maximum permitted average field strength is listed in FCC Section 15.209. A pre-amp is necessary for this measurement. For measurements above 1 GHz, set RBW = 1MHz, VBW = 1MHz, Sweep: Auto for Peak; set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto for Average. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation. See FCC Section 15.35(b) and (c).
- 4. In case the emission is fail due to the used RBW / VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

4.4.Test Result

PASS

Detailed information, Please refer to the following page.

Test Result of Radiated Band Edges

Temperature:25 ℃ Humidity: 56%

| Test Mo | Test Mode:802.11b | | | | | | | |
|---------|---------------------|--------------------|----------------|----------------|------------------------------|---------------------------|-------------------------------|----------------------------|
| channel | ANTENNA POLARITY | Frequency (MHz) | AV (dBuV/m) | PK (dBuV/m) | Average Limit (dBuV/m) | Peak Limit (dBuV/m) | Average Margin (dBuV/m) | Peak Margin (dBuV/m) |
| 1 | Н | 2385.26 | 36.55 | 47.64 | 54 | 74 | 17.45 | 26.36 |
| 1 | V | 2387.62 | 36.48 | 47.48 | 54 | 74 | 17.52 | 26.52 |
| 11 | Н | 2486.65 | 37.64 | 47.87 | 54 | 74 | 16.36 | 25.13 |
| 11 | V | 2486.73 | 37.21 | 47.69 | 54 | 74 | 16.79 | 26.31 |

Temperature:25 ℃ Humidity: 56%

| Test Mo | Test Mode:802.11g | | | | | | | |
|---------|---------------------|--------------------|----------------|----------------|------------------------------|---------------------------|-------------------------------|----------------------------|
| channel | ANTENNA POLARITY | Frequency (MHz) | AV (dBuV/m) | PK (dBuV/m) | Average Limit (dBuV/m) | Peak Limit (dBuV/m) | Average Margin (dBuV/m) | Peak Margin (dBuV/m) |
| 1 | Н | 2384.25 | 37.65 | 47.55 | 54 | 74 | 16.35 | 26.45 |
| 1 | V | 2384.31 | 37.23 | 46.78 | 54 | 74 | 16.77 | 27.22 |
| 11 | Н | 2486.91 | 37.46 | 47.77 | 54 | 74 | 16.54 | 26.23 |
| 11 | V | 2487.13 | 37.28 | 47.35 | 54 | 74 | 16.72 | 26.65 |

Temperature:25 ℃ Humidity: 56%

| Test Mo | Test Mode:802.11n | | | | | | | |
|---------|---------------------|----------------------|----------------|----------------|------------------------------|---------------------------|-------------------------------|----------------------------|
| channel | ANTENNA POLARITY | Frequency (MHz) | AV (dBuV/m) | PK (dBuV/m) | Average Limit (dBuV/m) | Peak Limit (dBuV/m) | Average Margin (dBuV/m) | Peak Margin (dBuV/m) |
| 1 | Н | 2387.33 | 35.77 | 46.78 | 54 | 74 | 18.23 | 27.22 |
| 1 | V | 2387.33 | 35.05 | 45.97 | 54 | 74 | 18.95 | 28.03 |
| 11 | Н | 2487.45 | 37.46 | 47.46 | 54 | 74 | 16.54 | 26.54 |
| 11 | V | 2485.18 | 37.23 | 47.21 | 54 | 74 | 16.77 | 26.79 |

5. RF ANTENNA CONDUCTED SPURIOUS EMISSIONS

5.1.Rules Part No.

FCC Part15 C Section 15.247 (d)

5.2.Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.3.Test Procedure

- 1,Conducted Measurement EUT was set for low, mid, high channel with modulated mode and highest RF output power. The spectrum analyzer was connected to the antenna terminal.
- 2. Conducted Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ±1.5dB.

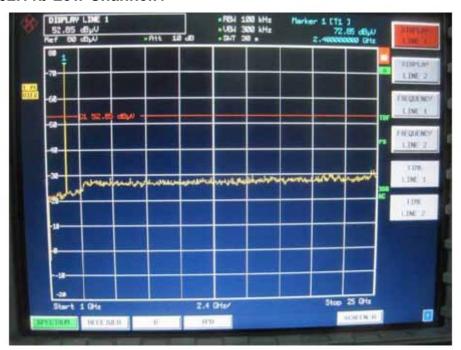
5.4.Test Result

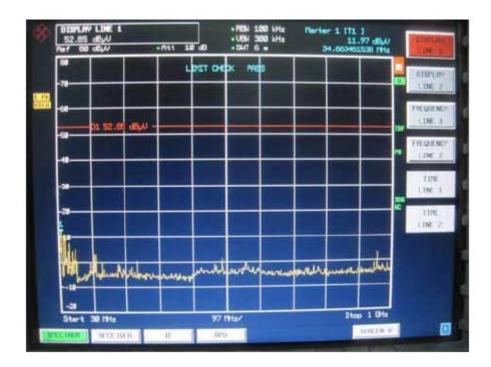
PASS

Detailed information, Please refer to the following page.

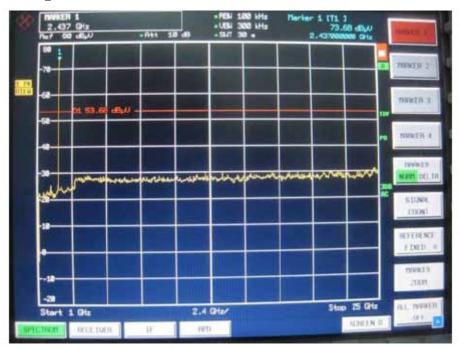
Temperature:25°C Humidity: 56%

802.11b Low Channel:1



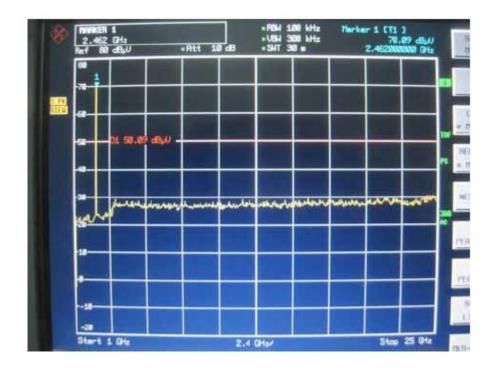


802.11g Middle Channel:6





802.11n High Channel:11





6. 6DB BANDWIDTH

6.1. Rules Part No.

FCC Part15 C Section 15.247 (a)(2)

6.2.Limits

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.3.Test Procedure

- 1. Set EUT in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=100KHz,VBW≥RBW,Span=40MHz,Sweep=auto.
- 4. Mark the peak frequency and -6dB(upper and lower)frequency.
- 5. Repeat until all the rest channels are investigated.

6.4.Test Result

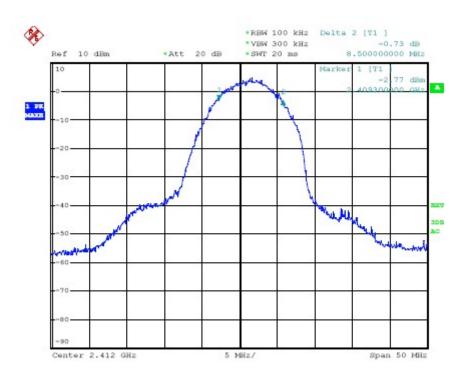
PASS

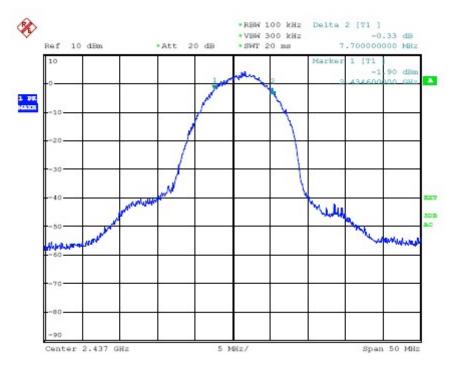
Detailed information, Please refer to the following page.

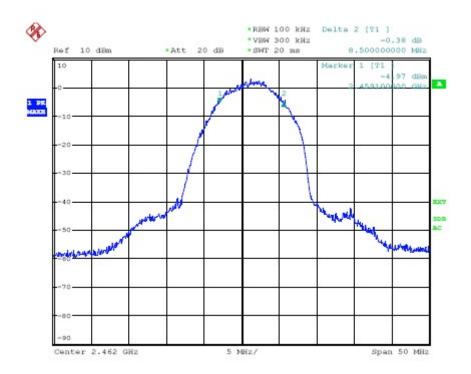
Operation Mode:802.11b

Temperature:25°C Humidity: 56%

| Channel number | Channel frequency | Measurement Level (MHz) | Required Limit (kHz) |
|----------------|-------------------|-------------------------|----------------------|
| 1 | 2412 | 8.5 | >500 |
| 6 | 2437 | 7.7 | >500 |
| 11 | 2462 | 8.5 | >500 |



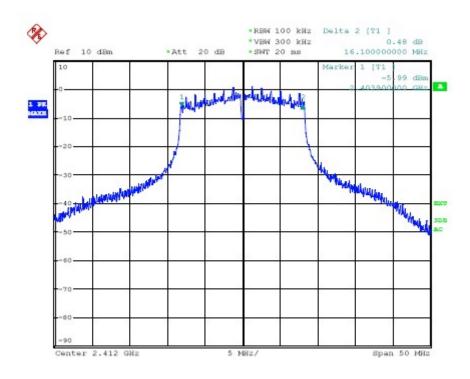


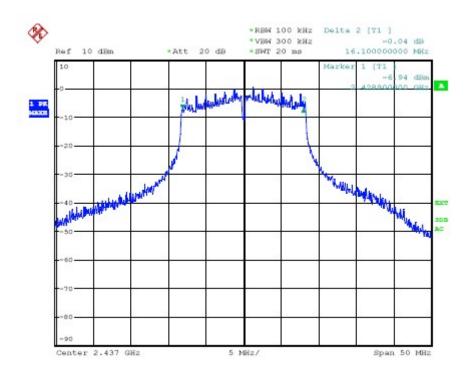


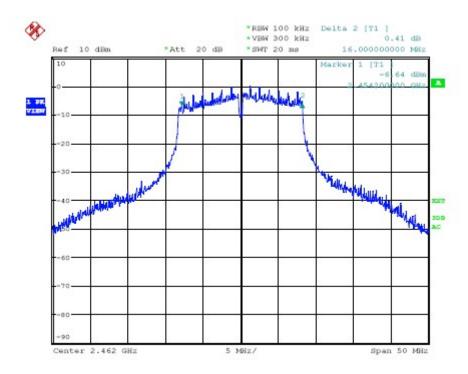
Operation Mode:802.11g

Temperature:25 ℃ Humidity: 56%

| Channel number | Channel frequency | Measurement Level | Required Limit |
|----------------|-------------------|-------------------|----------------|
| | 1 , | (MHz) | (kHz) |
| 1 | 2412 | 16.1 | >500 |
| 6 | 2437 | 16.1 | >500 |
| 11 | 2462 | 16.0 | >500 |



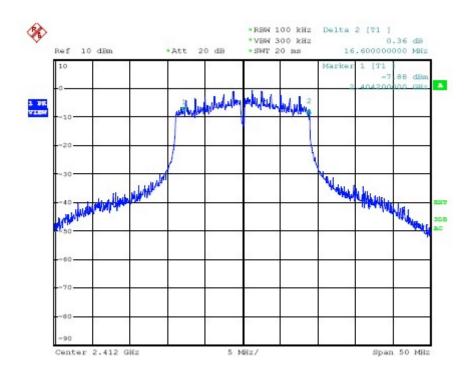


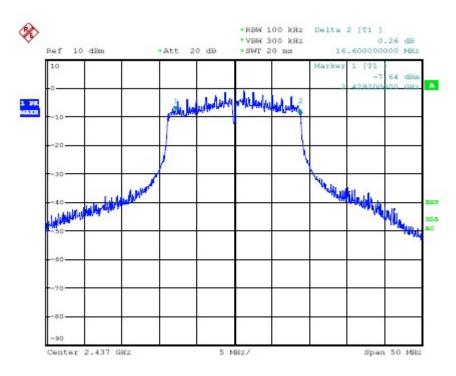


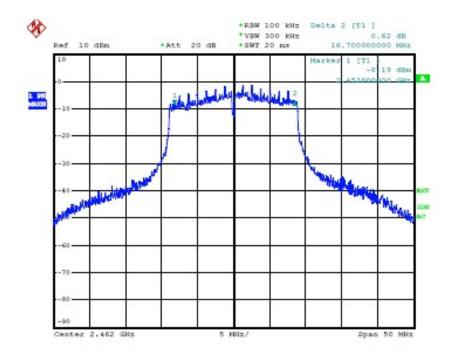
Operation Mode:802.11n

Temperature:25 ℃ Humidity: 56%

| Channel number | umber Channel frequency Measureme | | Required Limit |
|----------------|-----------------------------------|-------|----------------|
| | | (MHz) | (kHz) |
| 1 | 2412 | 16.6 | >500 |
| 6 | 2437 | 16.6 | >500 |
| 11 | 2462 | 16.7 | >500 |







7. POWER DENSITY

7.1.Rules Part No.

FCC Part15 C Section 15.247 (e)

7.2.Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

7.3.Test Procedure

Set EUT in the transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Set the spectrum analyzer as

RBW=3KHz,VBW=10KHz,Span=1.5MHz,

Sweep=500S. Record the max reading Repeat the above procedure until the measurements for all frequencies are completed.

7.4.Test Result

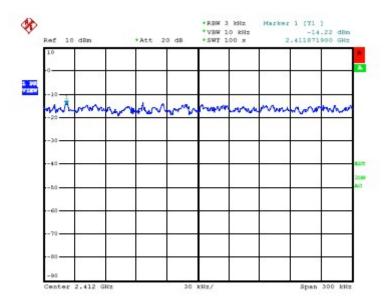
PASS

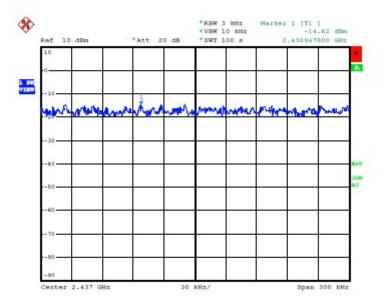
Detailed information, Please refer to the following page.

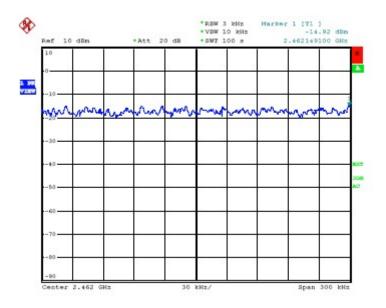
Operation Mode:802.11b

Temperature:25℃ Humidity: 56%

| Channel | Measurement Level | Required Limit |
|---------|-------------------|----------------|
| Charine | (dBm) | (dBm) |
| 1 | -14.22 | <8dBm |
| 6 | -14.62 | <8dBm |
| 11 | -14.92 | <8dBm |



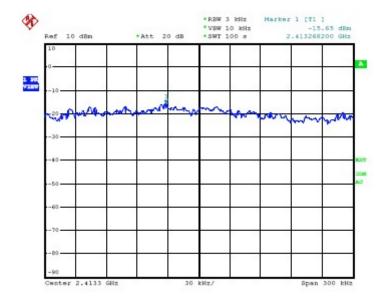


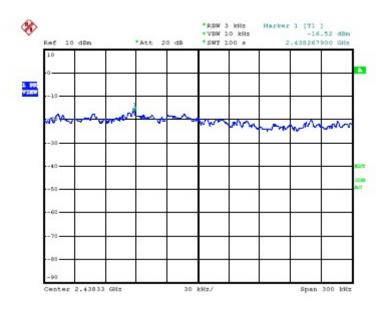


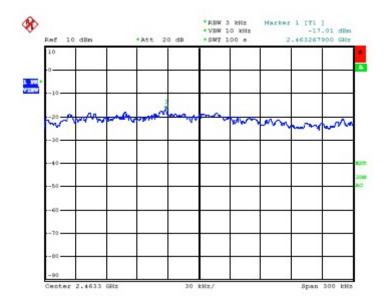
Operation Mode:802.11g

Temperature:25 ℃ Humidity: 56%

| Channel | Measurement Level | Required Limit |
|---------|-------------------|----------------|
| | (dBm) | (dBm) |
| 1 | -15.65 | <8dBm |
| 6 | -16.52 | <8dBm |
| 11 | -17.01 | <8dBm |



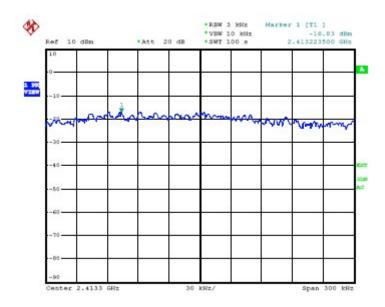


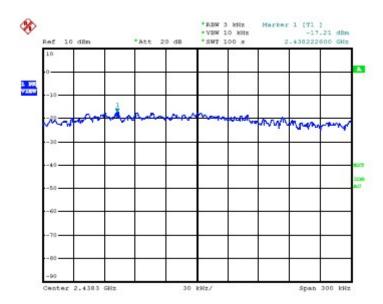


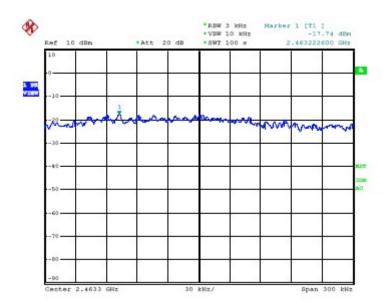
Operation Mode:802.11n

Temperature:25°C Humidity: 56%

| Channel | Measurement Level | Required Limit | |
|----------|-------------------|----------------|--|
| Chamilei | (dBm) | (dBm) | |
| 1 | -16.83 | <8dBm | |
| 6 | -17.21 | <8dBm | |
| 11 | -17.74 | <8dBm | |







8. RADIATION INTERFERENCE

8.1. Rules Part No.

15.209

8.2.Limits

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency of (MHz) | Emission Field Strength (microvolts/meter) |
|--------------------|--|
| 30 - 88 | 100 (40) |
| 88 - 216 | 150 (43.5) |
| 216 - 960 | 200 (46.0) |
| Above 960 | 500 (54.0) |
| | • • |

8.3.Test Procedure

ANSI STANDARD C63.4-2009, 10.1.7 MEASUREMENT PROCEDURES:

The EUT is placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (log periodical antenna and horn antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz.

The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

8.4.Test Result

PASS

The frequency range from 30MHz to 25GHz is investigated.

Detailed information, Please refer to the following page.

Operation Mode:802.11b TX Channel 1

Frequency range:30~1000MHz

Temperature:25 °C Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | Limit (dBuV/m) | Margin (dBuV/m) |
|--------------------|----------------------------|----------------|-------------------|--------------------|
| 78.23 | V | 30.28 | 40.00 | -9.72 |
| 148.01 | V | 27.06 | 43.50 | -16.44 |
| 191.74 | V | 31.19 | 43.50 | -12.31 |
| 214.95 | V | 31.53 | 43.50 | -11.97 |
| 288.05 | V | 28.75 | 46.00 | -17.25 |
| 504.17 | V | 34.51 | 46.00 | -11.49 |
| 78.65 | Н | 35.34 | 40.00 | -4.66 |
| 239.86 | Н | 35.95 | 46.00 | -10.05 |
| 288.04 | Н | 39.22 | 46.00 | -6.78 |
| 335.21 | Н | 36.85 | 46.00 | -9.15 |
| 407.45 | Н | 35.95 | 46.00 | -10.05 |
| 504.68 | Н | 33.64 | 46.00 | -12.36 |

Operation Mode:802.11b TX Channel 6

Frequency range:30~1000MHz

Temperature:25 ℃ Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | Limit (dBuV/m) | Margin (dBuV/m) |
|--------------------|----------------------------|----------------|-------------------|--------------------|
| 80.28 | V | 30.28 | 40.00 | -9.60 |
| 149.33 | V | 27.06 | 43.50 | -16.79 |
| 195.31 | V | 31.19 | 43.50 | -12.52 |
| 210.95 | V | 31.53 | 43.50 | -12.60 |
| 285.09 | V | 28.75 | 46.00 | -16.80 |
| 503.12 | V | 34.51 | 46.00 | -11.76 |
| 79.91 | Н | 35.34 | 40.00 | -5.19 |
| 236.92 | Н | 35.95 | 46.00 | -9.27 |
| 290.44 | Н | 39.22 | 46.00 | -6.28 |
| 334.14 | Н | 36.85 | 46.00 | -9.66 |
| 403.48 | Н | 35.95 | 46.00 | -9.88 |
| 502.66 | Н | 33.64 | 46.00 | -12.81 |

Operation Mode:802.11b TX Channel 11

Frequency range:30~1000MHz

Temperature:25°C

| Humidity: 56% | | | | | |
|------------------|--------------------|--|--|--|--|
| Limit IBuV/m) | Margin (dBuV/m) | | | | |
| 40.00 | -10.17 | | | | |
| 43.50 | -17.47 | | | | |

| 10111p01ata101=0 | | | | , |
|--------------------|----------------------------|----------------|-------------------|--------------------|
| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | Limit (dBuV/m) | Margin (dBuV/m) |
| 79.35 | V | 29.83 | 40.00 | -10.17 |
| 146.94 | V | 26.03 | 43.50 | -17.47 |
| 190.49 | V | 30.14 | 43.50 | -13.36 |
| 216.96 | V | 29.85 | 43.50 | -13.65 |
| 288.00 | V | 24.91 | 46.00 | -21.09 |
| 504.15 | V | 30.80 | 46.00 | -15.20 |
| 75.22 | Н | 32.68 | 40.00 | -7.32 |
| 241.07 | Н | 36.98 | 46.00 | -9.02 |
| 284.41 | Н | 36.61 | 46.00 | -9.39 |
| 338.45 | Н | 39.33 | 46.00 | -6.67 |
| 408.87 | Н | 34.07 | 46.00 | -11.93 |
| 527.73 | Н | 33.30 | 46.00 | -12.70 |
| | | • | • | • |

Operation Mode:802.11g TX Channel 1

Frequency range:30~1000MHz

Temperature:25℃ Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | Limit (dBuV/m) | Margin (dBuV/m) |
|--------------------|----------------------------|----------------|-------------------|--------------------|
| 79.45 | V | 30.17 | 40.00 | -9.83 |
| 149.06 | V | 28.29 | 43.50 | -15.21 |
| 190.96 | V | 31.01 | 43.50 | -12.49 |
| 216.01 | V | 30.97 | 43.50 | -12.53 |
| 289.17 | V | 28.39 | 46.00 | -17.61 |
| 503.90 | V | 34.29 | 46.00 | -11.71 |
| 79.67 | Н | 34.60 | 40.00 | -5.40 |
| 240.64 | Н | 36.57 | 46.00 | -9.43 |
| 288.54 | Н | 39.57 | 46.00 | -6.43 |
| 334.70 | Н | 35.81 | 46.00 | -10.19 |
| 407.62 | Н | 36.31 | 46.00 | -9.69 |
| 505.13 | Н | 33.23 | 46.00 | -12.77 |

Operation Mode:802.11g TX Channel 6

Frequency range:30~1000MHz Humidity: 56%

Temperature:25℃

| Гиоличеной. | ANITENINIA | DI | l insit | Manain |
|-------------|------------|----------|----------|----------|
| Frequency | ANTENNA | PK | Limit | Margin |
| (MHz) | POLARITY | (dBuV/m) | (dBuV/m) | (dBuV/m) |
| | H/V | | | |
| 79.70 | V | 30.68 | 40.00 | -9.32 |
| 148.71 | V | 27.24 | 43.50 | -16.26 |
| 194.47 | V | 30.80 | 43.50 | -12.70 |
| 212.96 | V | 30.42 | 43.50 | -13.08 |
| 286.71 | V | 28.51 | 46.00 | -17.49 |
| 502.85 | V | 34.21 | 46.00 | -11.79 |
| 80.72 | Н | 34.17 | 40.00 | -5.83 |
| 238.16 | Н | 36.72 | 46.00 | -9.28 |
| 289.55 | Н | 39.34 | 46.00 | -6.66 |
| 332.65 | Н | 34.76 | 46.00 | -11.24 |
| 403.98 | Н | 36.46 | 46.00 | -9.54 |
| 506.49 | Н | 32.78 | 46.00 | -13.22 |

Frequency range:30~1000MHz

Operation Mode:802.11g TX Channel 11 Temperature:25 $^{\circ}$ C Humidity: 56%

| - P | | | | |
|--------------------|----------------------------|----------------|-------------------|--------------------|
| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | Limit (dBuV/m) | Margin (dBuV/m) |
| 80.50 | V | 29.72 | 40.00 | -10.28 |
| 148.01 | V | 27.17 | 43.50 | -16.33 |
| 188.60 | V | 28.96 | 43.50 | -14.54 |
| 218.36 | V | 28.75 | 43.50 | -14.75 |
| 289.05 | V | 29.76 | 46.00 | -16.24 |
| 503.46 | V | 36.96 | 46.00 | -9.04 |
| 81.03 | Н | 31.94 | 40.00 | -8.06 |
| 242.12 | Н | 36.19 | 46.00 | -9.81 |
| 284.81 | Н | 36.52 | 46.00 | -9.48 |
| 336.76 | Н | 34.69 | 46.00 | -11.31 |
| 408.37 | Н | 34.95 | 46.00 | -11.05 |
| 520.76 | Н | 32.46 | 46.00 | -13.54 |

Operation Mode:802.11n TX Channel 1

Frequency range:30~1000MHz Humidity: 56%

Temperature:25°C

| Frequency (MHz) | ANTENNA POLARITY | PK (dBuV/m) | Limit (dBuV/m) | Margin (dBuV/m) |
|--------------------|---------------------|----------------|-------------------|--------------------|
| | H/V | | | |
| 77.56 | V | 30.13 | 40.00 | -9.87 |
| 146.80 | V | 28.18 | 43.50 | -15.32 |
| 191.53 | V | 30.94 | 43.50 | -12.56 |
| 214.40 | V | 31.39 | 43.50 | -12.11 |
| 289.11 | V | 28.4 | 46.00 | -17.60 |
| 504.09 | V | 34.33 | 46.00 | -11.67 |
| 82.70 | Н | 35.23 | 40.00 | -4.77 |
| 240.52 | Н | 35.39 | 46.00 | -10.61 |
| 289.06 | Н | 39.9 | 46.00 | -6.10 |
| 334.16 | Н | 36.33 | 46.00 | -9.67 |
| 407.60 | Н | 36.4 | 46.00 | -9.60 |
| 505.94 | Н | 32.86 | 46.00 | -13.14 |

Operation Mode:802.11n TX Channel 6

Frequency range:30~1000MHz

Temperature:25 ℃ Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | Limit (dBuV/m) | Margin (dBuV/m) |
|--------------------|----------------------------|----------------|-------------------|--------------------|
| 79.92 | V | 29.59 | 40.00 | -10.41 |
| 145.75 | V | 27.01 | 43.50 | -16.49 |
| 193.56 | V | 30.76 | 43.50 | -12.74 |
| 210.95 | V | 30.83 | 43.50 | -12.67 |
| 287.00 | V | 28.04 | 46.00 | -17.96 |
| 502.06 | V | 34.11 | 46.00 | -11.89 |
| 80.25 | Н | 34.49 | 40.00 | -5.51 |
| 237.89 | Н | 36.01 | 46.00 | -9.99 |
| 290.50 | H | 40.91 | 46.00 | -5.09 |
| 332.15 | Н | 35.77 | 46.00 | -10.23 |
| 404.35 | Н | 36.76 | 46.00 | -9.24 |
| 504.89 | Н | 32.45 | 46.00 | -13.55 |

Operation Mode:802.11n TX Channel 11

Frequency range:30~1000MHz

Temperature:25℃ Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | Limit (dBuV/m) | Margin (dBuV/m) |
|--------------------|----------------------------|----------------|-------------------|--------------------|
| 81.17 | V | 29.48 | 40.00 | -10.52 |
| 145.75 | V | 26.93 | 43.50 | -16.57 |
| 189.17 | V | 29.25 | 43.50 | -14.25 |
| 216.75 | V | 29.17 | 43.50 | -14.33 |
| 288.99 | V | 29.42 | 46.00 | -16.58 |
| 503.65 | V | 37.38 | 46.00 | -8.62 |
| 84.06 | Н | 32.78 | 40.00 | -7.22 |
| 242.00 | Н | 35.17 | 46.00 | -10.83 |
| 285.33 | Н | 37.77 | 46.00 | -8.23 |
| 336.22 | Н | 34.55 | 46.00 | -11.45 |
| 408.35 | Н | 34.86 | 46.00 | -11.14 |
| 521.57 | Н | 31.81 | 46.00 | -14.19 |

Operation Mode:802.11b TX Channel 1

Temperature:25°C

Frequency range: Above 1G Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | AV (dBuV) | PK Limit (dBuV/m | AV Limit (dBuV/m | PK Margin (dBuV/m) | AV Margin (dBuV/m) |
|--------------------|----------------------------|----------------|--------------|---------------------|---------------------|-----------------------|-----------------------|
| 4581.73 | V | 50.62 | 38.72 | 74 | 54 | -23.38 | -15.28 |
| 5294.87 | V | 50.95 | 37.02 | 74 | 54 | -23.05 | -16.98 |
| 5919.87 | V | 52.15 | 35.02 | 74 | 54 | -21.85 | -18.98 |
| | | | | | | | |
| 4589.71 | Н | 50.65 | 37.06 | 74 | 54 | -23.35 | -16.94 |
| 5289.36 | Н | 51.26 | 38.55 | 74 | 54 | -22.74 | -15.45 |
| 5919.88 | Н | 50.25 | 35.96 | 74 | 54 | -23.75 | -18.04 |

Operation Mode:802.11b TX Channel 6

Temperature:25℃

Frequency range: Above 1G Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | AV (dBuV) | PK Limit (dBuV/m | AV Limit (dBuV/m | PK Margin (dBuV/m) | AV Margin (dBuV/m) |
|--------------------|----------------------------|----------------|--------------|---------------------|---------------------|-----------------------|-----------------------|
| 4597.05 | V | 52.42 | 39.92 | 74 | 54 | -21.58 | -14.08 |
| 5305.22 | V | 49.50 | 36.35 | 74 | 54 | -24.50 | -17.65 |
| 5898.72 | V | 53.17 | 36.05 | 74 | 54 | -20.83 | -17.95 |
| | | | | | | | |
| 4600.38 | Н | 49.15 | 36.21 | 74 | 54 | -24.85 | -17.79 |
| 5305.04 | Н | 50.48 | 38.19 | 74 | 54 | -23.52 | -15.81 |
| 5931.11 | Н | 49.02 | 35.19 | 74 | 54 | -24.98 | -18.81 |

Operation Mode:802.11b TX Channel 11

Temperature:25[°]C

Frequency range: Above 1G

Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | AV (dBuV) | PK Limit (dBuV/m | AV Limit (dBuV/m | PK Margin (dBuV/m) | AV Margin (dBuV/m) |
|--------------------|----------------------------|----------------|--------------|---------------------|---------------------|-----------------------|-----------------------|
| 4595.38 | V | 49.12 | 36.32 | 74 | 54 | -24.88 | -17.68 |
| 5303.87 | V | 50.50 | 35.12 | 74 | 54 | -23.50 | -18.88 |
| 5908.53 | V | 53.46 | 35.58 | 74 | 54 | -20.54 | -18.42 |
| | | | | | | | |
| 4590.94 | Н | 51.67 | 38.16 | 74 | 54 | -22.33 | -15.84 |
| 5300.14 | Н | 52.60 | 39.13 | 74 | 54 | -21.40 | -14.87 |
| 5935.22 | Н | 49.22 | 34.98 | 74 | 54 | -24.78 | -19.02 |

Operation Mode:802.11g TX Channel 1

Temperature:25°C

Frequency range: Above 1G Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | AV (dBuV) | PK Limit (dBuV/m | AV Limit (dBuV/m | PK Margin (dBuV/m) | AV Margin (dBuV/m) |
|--------------------|----------------------------|----------------|--------------|---------------------|---------------------|-----------------------|-----------------------|
| 4576.13 | V | 51.87 | 39.49 | 74 | 54 | -22.13 | -14.51 |
| 5301.88 | V | 52.10 | 37.58 | 74 | 54 | -21.90 | -16.42 |
| 5908.64 | V | 51.12 | 34.00 | 74 | 54 | -22.88 | -20.00 |
| | | | | | _ | | |
| 4599.06 | Н | 51.43 | 37.32 | 74 | 54 | -22.57 | -16.68 |
| 5299.63 | Н | 52.60 | 39.39 | 74 | 54 | -21.40 | -14.61 |
| 5951.93 | Н | 51.23 | 36.40 | 74 | 54 | -22.77 | -17.60 |

Operation Mode:802.11g TX Channel 6

Temperature:25[°]C

Frequency range: Above 1G Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | AV (dBuV) | PK Limit (dBuV/m | AV Limit (dBuV/m | PK Margin (dBuV/m) | AV Margin (dBuV/m) |
|--------------------|----------------------------|----------------|--------------|---------------------|---------------------|-----------------------|-----------------------|
| 4586.63 | V | 50.42 | 38.59 | 74 | 54 | -23.58 | -15.41 |
| 5311.93 | V | 54.22 | 38.25 | 74 | 54 | -19.78 | -15.75 |
| 5888.43 | V | 54.58 | 35.45 | 74 | 54 | -19.42 | -18.55 |
| | | | | | | | |
| 4601.56 | Н | 53.08 | 38.16 | 74 | 54 | -20.92 | -15.84 |
| 5315.09 | Н | 53.35 | 36.76 | 74 | 54 | -20.65 | -17.24 |
| 5967.20 | Н | 52.44 | 36.52 | 74 | 54 | -21.56 | -17.48 |

Operation Mode:802.11g TX Channel 11

Temperature:25[°]C

Frequency range: Above 1G Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | AV (dBuV) | PK Limit (dBuV/m | AV Limit (dBuV/m | PK Margin (dBuV/m) | AV Margin (dBuV/m) |
|--------------------|----------------------------|----------------|--------------|---------------------|---------------------|-----------------------|-----------------------|
| 4586.18 | V | 50.22 | 37.44 | 74 | 54 | -23.78 | -16.56 |
| 5307.24 | V | 51.69 | 35.74 | 74 | 54 | -22.31 | -18.26 |
| 5898.28 | V | 53.45 | 34.57 | 74 | 54 | -20.55 | -19.43 |
| | | | | | | | |
| 4607.11 | Н | 52.91 | 38.44 | 74 | 54 | -21.09 | -15.56 |
| 5309.26 | Н | 52.91 | 39.44 | 74 | 54 | -21.09 | -14.56 |
| 5972.98 | Η | 48.18 | 34.93 | 74 | 54 | -25.82 | -19.07 |

Operation Mode:802.11n TX Channel 1

Temperature:25[°]C

Frequency range:Above 1G

Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | AV (dBuV) | PK Limit (dBuV/m | AV Limit (dBuV/m | PK Margin (dBuV/m) | AV Margin (dBuV/m) |
|--------------------|----------------------------|----------------|--------------|---------------------|---------------------|-----------------------|-----------------------|
| 4589.23 | V | 49.57 | 37.83 | 74 | 54 | -24.43 | -16.17 |
| 5306.92 | V | 49.49 | 35.88 | 74 | 54 | -24.51 | -18.12 |
| 5900.66 | V | 53.18 | 36.04 | 74 | 54 | -20.82 | -17.96 |
| | | | | | | | |
| 4594.31 | Н | 49.52 | 35.94 | 74 | 54 | -24.48 | -18.06 |
| 5299.82 | Н | 49.90 | 37.59 | 74 | 54 | -24.10 | -16.41 |
| 5918.38 | Н | 51.42 | 37.18 | 74 | 54 | -22.58 | -16.82 |

Operation Mode:802.11n TX Channel 6

Temperature:25℃

Frequency range: Above 1G Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | AV (dBuV) | PK Limit (dBuV/m | AV Limit (dBuV/m | PK Margin (dBuV/m) | AV Margin (dBuV/m) |
|--------------------|----------------------------|----------------|--------------|---------------------|---------------------|-----------------------|-----------------------|
| 4604.59 | V | 48.36 | 37.18 | 74 | 54 | -25.64 | -16.82 |
| 5324.18 | V | 50.51 | 36.24 | 74 | 54 | -23.49 | -17.76 |
| 5880.41 | V | 55.23 | 37.81 | 74 | 54 | -18.77 | -16.19 |
| | _ | | | | | | |
| 4606.34 | Η | 51.83 | 36.68 | 74 | 54 | -22.17 | -17.32 |
| 5303.84 | Η | 50.61 | 36.56 | 74 | 54 | -23.39 | -17.44 |
| 5919.43 | Н | 52.74 | 37.63 | 74 | 54 | -21.26 | -16.37 |

Operation Mode:802.11n TX Channel 11

Temperature:25℃

Frequency range:Above 1G Humidity: 56%

| Frequency (MHz) | ANTENNA POLARITY H/V | PK (dBuV/m) | AV (dBuV) | PK Limit (dBuV/m | AV Limit (dBuV/m | PK Margin (dBuV/m) | AV Margin (dBuV/m) |
|--------------------|----------------------------|----------------|--------------|---------------------|---------------------|-----------------------|-----------------------|
| 4594.25 | V | 50.98 | 37.47 | 74 | 54 | -23.02 | -16.53 |
| 5309.97 | V | 49.13 | 33.48 | 74 | 54 | -24.87 | -20.52 |
| 5890.59 | V | 55.28 | 36.49 | 74 | 54 | -18.72 | -17.51 |
| | | | | | | | |
| 4602.42 | Н | 51.69 | 37.19 | 74 | 54 | -22.31 | -16.81 |
| 5309.18 | Н | 51.02 | 38.10 | 74 | 54 | -22.98 | -15.90 |
| 5928.59 | Н | 50.40 | 35.73 | 74 | 54 | -23.60 | -18.27 |

9. RESTRICTED BANDS OF OPERATION

Section 15.205:

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 2. 17725 – 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 2. 20725 - 4.20775 | 73 – 74.6 | 1645.5 - 1646.5 | 9.3 – 9.5 |
| 6.215 - 6.218 | 74.8 – 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.52525 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 156.7 - 156.9 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 162.0125 - 167.17 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 167.72 - 173.2 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 240 - 285 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | 322 – 335.4 | | |

 $^{^{\}rm 1}$ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. $^{\rm 2}$ Above 38.6

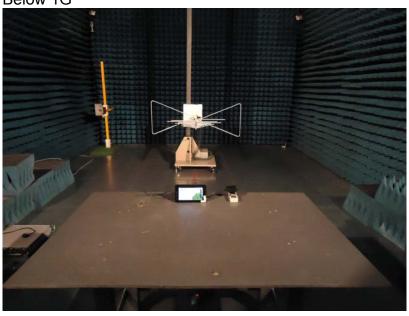
10.ANTENNA REQUIREMENT

According to Section 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. Antenna is fixed by PCB, can not be changed except take apart the product. Therefore the EUT complies with Section 15.203 of the FCC rules.

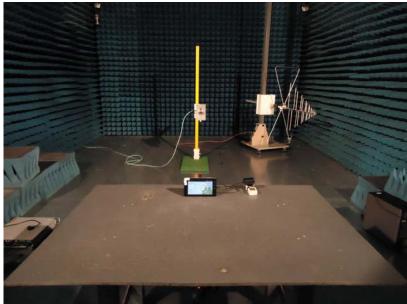
11.PHOTOGRAPH OF TEST

Radiated Emission

Below 1G



Above 1G



Power Line Conducted Emission

