

# FCC Test Report

**Applicant** : Shenzhen Qianyan Technology LTD

**Address** : No.3301,Block C,Section 1,Chuangzhi  
Yuncheng, Building,Liuxian Avenue,Xili  
Community, Xili Street, Nanshan District,  
Shenzhen, 518000, China

**Product Name** : Govee RGBIC LED Neon Rope Light for desks

**Report Date** : Jul. 20, 2023

**Shenzhen Anbotek Compliance Laboratory Limited**



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# TEST REPORT

Applicant : Shenzhen Qianyan Technology LTD  
Manufacturer : Shenzhen Qianyan Technology LTD  
Product Name : Govee RGBIC LED Neon Rope Light for desks  
Model No. : H61C5, H61C2  
Trade Mark : Govee  
Rating(s) : H61C2 Input: 24V $\Rightarrow$  1A  
H61C5 Input: 24V $\Rightarrow$  2A

**Test Standard(s) : FCC Part15 Subpart C, Section 15.247**

**Test Method(s) : ANSI C63.10: 2020, KDB 558074 D01 15.247 Meas Guidance v05r02**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Jun. 02, 2023

Date of Test

Jun. 02 ~ Jul. 07, 2023

Prepared by

Nian Xiu Chen

(Nianxiu Chen)

Approved & Authorized Signer

Kingkong Jin

(Kingkong Jin)



## Revision History

| Report Version | Description     | Issued Date   |
|----------------|-----------------|---------------|
| R00            | Original Issue. | Jul. 20, 2023 |
|                |                 |               |
|                |                 |               |

## Note 1:

This is a Class II application which was based on the original report 18220WC30025002. The difference between the original device and current one described as following:

1. Change the model name to "H61C5, H61C2".

Base on the changes, models have different strip lengths and inputs, only conducted emission and spurious emission were retested. The changes will not related with the other RF parameters.



## 1. General Information

### 1.1. Client Information

|              |   |                                                                                                                                              |
|--------------|---|----------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant    | : | Shenzhen Qianyan Technology LTD                                                                                                              |
| Address      | : | No.3301,Block C,Section 1,Chuangzhi Yuncheng, Building,Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China |
| Manufacturer | : | Shenzhen Qianyan Technology LTD                                                                                                              |
| Address      | : | No.3301,Block C,Section 1,Chuangzhi Yuncheng, Building,Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China |

### 1.2. Description of Device (EUT)

|                                          |   |                                                                                                                                                                                                                                       |
|------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                             | : | Govee RGBIC LED Neon Rope Light for desks                                                                                                                                                                                             |
| Model No.                                | : | H61C5, H61C2<br>(Note: All samples are the same except the model number, Lamp strip length and input, so we prepare all models for test.)                                                                                             |
| Trade Mark                               | : | Govee                                                                                                                                                                                                                                 |
| Test Power Supply                        | : | AC 120V, 60Hz for Adapter                                                                                                                                                                                                             |
| Test Sample No.                          | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample)                                                                                                                                                                                       |
| Adapter(H61C5 for Light strip length 5m) | : | Model No.: CW2402000US<br>Input: 100-240V~50/60Hz 1.2A MAX<br>Output: 24V= 2000mA                                                                                                                                                     |
| Adapter(H61C2 for Light strip length 2m) | : | Model No.: BI24GL-240100-AdU<br>Input: 100-240V~50/60Hz 0.8A<br>Output : 24V= 1A                                                                                                                                                      |
| <b>RF Specification</b>                  |   |                                                                                                                                                                                                                                       |
| Operation Mode                           | : | <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(HT20) <input type="checkbox"/> 802.11n(HT40)                                                      |
| Operation Frequency                      | : | 2412~2462MHz                                                                                                                                                                                                                          |
| Number of Channel                        | : | 11 Channel for 20MHz bandwidth (2412~2462MHz)                                                                                                                                                                                         |
| Modulation Type                          | : | <input checked="" type="checkbox"/> 802.11b: DSSS (CCK, DQPSK, DBPSK)<br><input checked="" type="checkbox"/> 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM)<br><input checked="" type="checkbox"/> 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) |
| Antenna Type                             | : | PCB Antenna                                                                                                                                                                                                                           |



|                                                                                                                                     |   |                                |
|-------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------|
| Antenna Gain(Peak)                                                                                                                  | : | 3.85dBi (Provided by customer) |
| <b>Remark:</b> 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |   |                                |

### 1.3. Auxiliary Equipment Used During Test

| Description | Rating(s) |
|-------------|-----------|
| --          | --        |

### 1.4. Description of Test Configuration

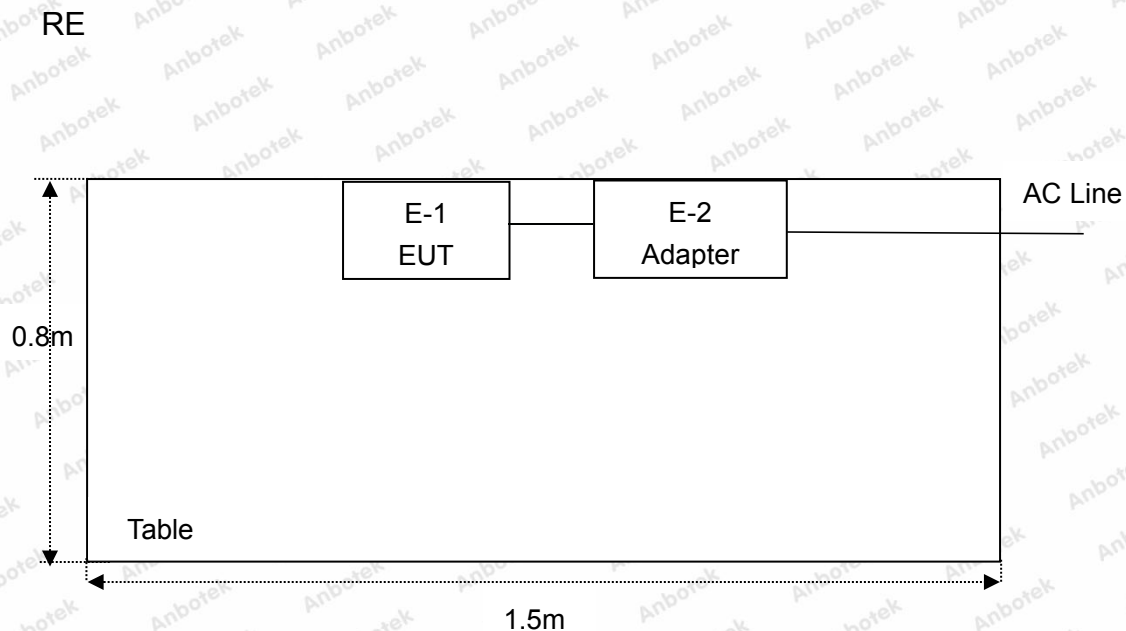
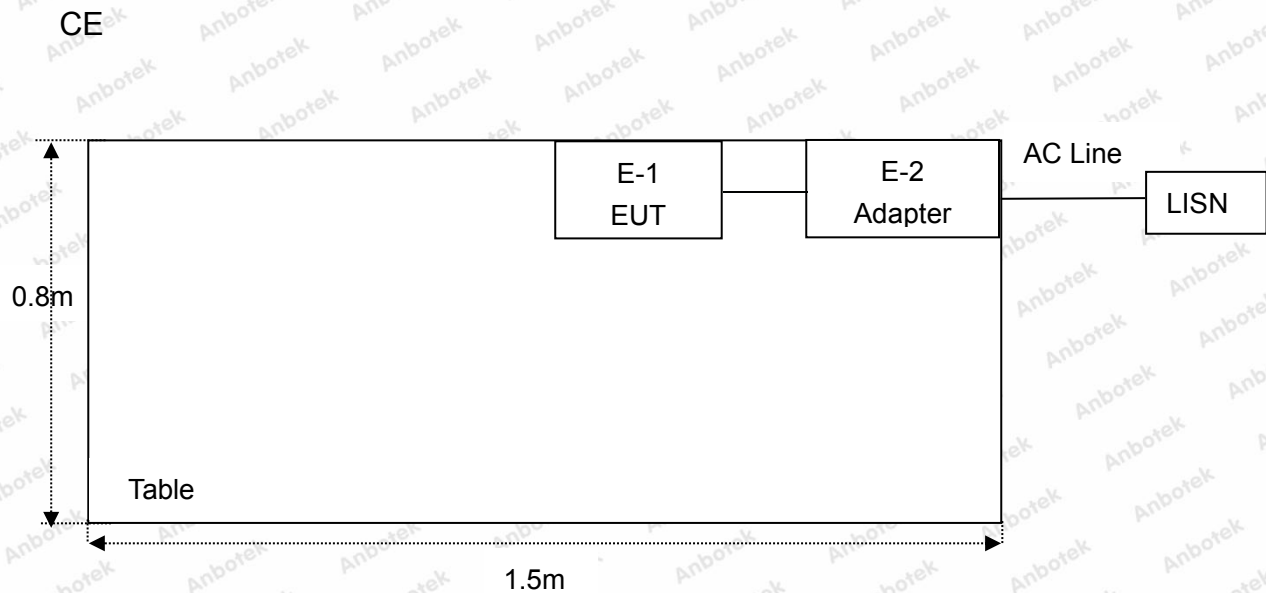
| Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 01      | 2412           | 04      | 2427           | 07      | 2442           | 10      | 2457           |
| 02      | 2417           | 05      | 2432           | 08      | 2447           | 11      | 2462           |
| 03      | 2422           | 06      | 2437           | 09      | 2452           |         |                |

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. For 802.11b, 802.11g, and 802.11n(HT20) modes were test with channel 1, 6, 11.



### 1.5. Description Of Test Setup



## 1.6. Test Equipment List

| Item | Equipment                                         | Manufacturer            | Model No.         | Serial No.   | Last Cal.     | Cal. Interval |
|------|---------------------------------------------------|-------------------------|-------------------|--------------|---------------|---------------|
| 1.   | L.I.S.N.<br>Artificial Mains<br>Network           | Rohde & Schwarz         | ENV216            | 100055       | Oct. 23, 2022 | 1 Year        |
| 2.   | Three Phase V-type<br>Artificial Power<br>Network | CYBERTEK                | EM5040DT          | E215040DT001 | Jul. 05, 2023 | 1 Year        |
| 3.   | EMI Test Receiver                                 | Rohde & Schwarz         | ESCI              | 100627       | Oct. 13, 2022 | 1 Year        |
| 4.   | EMI Test Receiver                                 | Rohde & Schwarz         | ESR26             | 101481       | Oct. 23, 2022 | 1 Year        |
| 5.   | RF Switching Unit                                 | Compliance<br>Direction | RSU-M2            | 38303        | Oct. 22, 2022 | 1 Year        |
| 6.   | MXA Spectrum<br>Analysis                          | Agilent                 | N9020A            | MY51170037   | Oct. 13, 2022 | 1 Year        |
| 7.   | EMI Preamplifier                                  | SKET Electronic         | LNPA-0118G<br>-45 | SKET-PA-002  | Oct. 13, 2022 | 1 Year        |
| 8.   | Double Ridged Horn<br>Antenna                     | SCHWARZBECK             | BBHA 9120D        | 02555        | Oct. 16, 2022 | 3 Year        |
| 9.   | Bilog Broadband<br>Antenna                        | Schwarzbeck             | VULB9163          | 345          | Oct. 23, 2022 | 3 Year        |
| 10.  | Loop Antenna                                      | Schwarzbeck             | FMZB1519B         | 00053        | Oct. 23, 2022 | 1 Year        |
| 11.  | Horn Antenna                                      | A-INFO                  | LB-180400-K<br>F  | J211060628   | Oct. 23, 2022 | 1 Year        |
| 12.  | Pre-amplifier                                     | SONOMA                  | 310N              | 186860       | Oct. 23, 2022 | 1 Year        |
| 13.  | EMI Test Software<br>EZ-EMC                       | SHURPLE                 | N/A               | N/A          | N/A           | N/A           |
| 14.  | MXA Spectrum<br>Analysis                          | KEYSIGHT                | N9020A            | MY53280032   | Oct. 13, 2022 | 1 Year        |
| 15.  | MXG RF Vector<br>Signal Generator                 | Agilent                 | N5182A            | MY48180656   | Oct. 13, 2022 | 1 Year        |
| 16.  | Signal Generator                                  | Agilent                 | E4421B            | MY41000743   | Oct. 13, 2022 | 1 Year        |
| 17.  | DC Power Supply                                   | IVYTECH                 | IV3605            | 1804D360510  | Oct. 22, 2022 | 1 Year        |
| 18.  | Constant<br>Temperature<br>Humidity Chamber       | ZHONGJIAN               | ZJ-KHWS80<br>B    | N/A          | Oct. 19, 2022 | 1 Year        |
| 19.  | Power Meter                                       | Agilent                 | N1914A            | MY50001102   | Oct.26, 2022  | 1 Year        |



### 1.7. Measurement Uncertainty

|                        |   |                          |
|------------------------|---|--------------------------|
| Radiation Uncertainty  | : | Ur = 3.9 dB (Horizontal) |
|                        |   | Ur = 3.8 dB (Vertical)   |
| Conduction Uncertainty | : | Uc = 3.4 dB              |

### 1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, 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 No. 184111.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



## 2. Summary of Test Results

| Standard Section                                            | Test Item                   | Result |
|-------------------------------------------------------------|-----------------------------|--------|
| 15.203/15.247(c)                                            | Antenna Requirement         | PASS   |
| 15.207                                                      | Conducted Emission          | PASS   |
| 15.205/15.209                                               | Spurious Emission           | PASS   |
| 15.247(b)(3)                                                | Conducted Peak Output Power | PASS   |
| <b>Remark:</b> "N/A" is an abbreviation for Not Applicable. |                             |        |

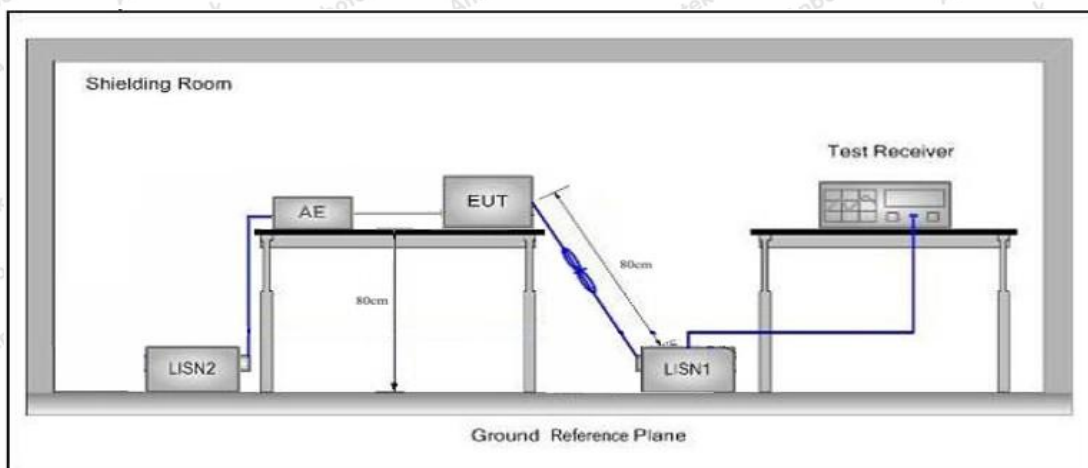


### 3. Conducted Emission Test

#### 3.1. Test Standard and Limit

| Test Standard                                                                                                                            | FCC Part15 Section 15.207 |                                |               |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------|---------------|
| Test Limit                                                                                                                               | Frequency                 | Maximum RF Line Voltage (dBuV) |               |
|                                                                                                                                          |                           | Quasi-peak Level               | Average Level |
|                                                                                                                                          | 150kHz~500kHz             | 66 ~ 56 *                      | 56 ~ 46 *     |
|                                                                                                                                          | 500kHz~5MHz               | 56                             | 46            |
|                                                                                                                                          | 5MHz~30MHz                | 60                             | 50            |
| <b>Remark:</b> (1) *Decreasing linearly with logarithm of the frequency.<br>(2) The lower limit shall apply at the transition frequency. |                           |                                |               |

#### 3.2. Test Setup



#### 3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

#### 3.4. Test Data

During the test, pre-scan all modes, only the worst case is recorded in the report.

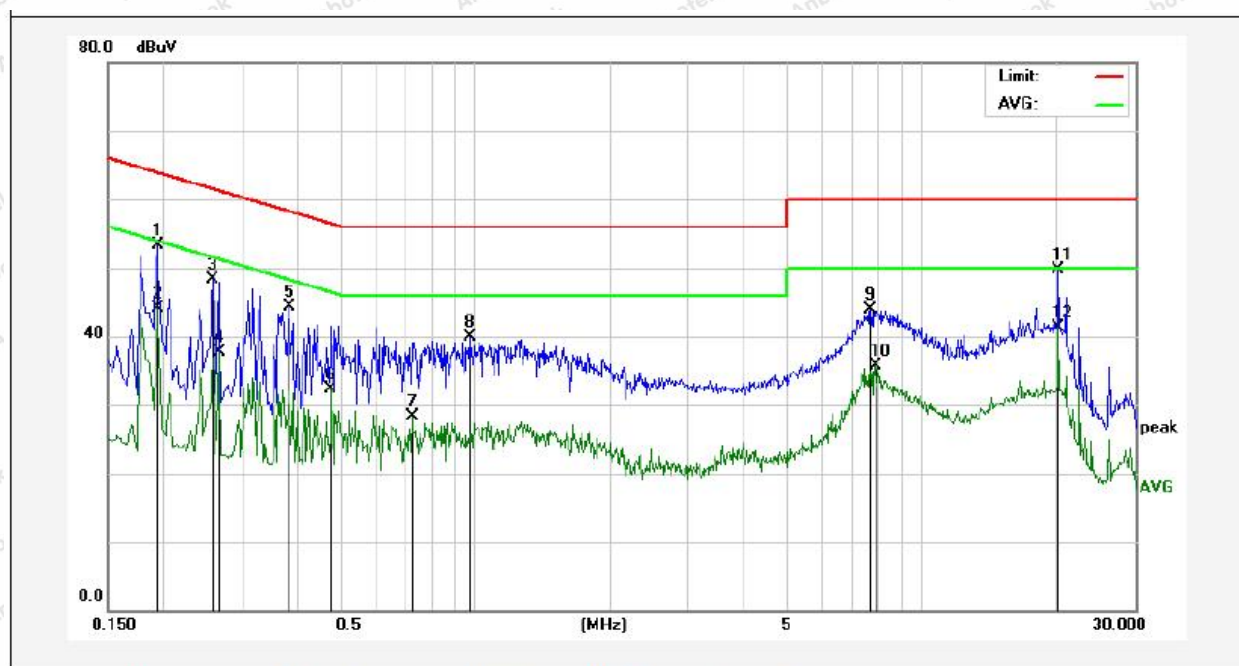
AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.



**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
Operating Condition: 802.11g 2462MHz  
Test Specification: AC 120V, 60Hz for Adapter  
Comment: Live Line  
Temp.(°C)/Hum.(%RH): 22.5°C/49%RH  
Model: H61C5

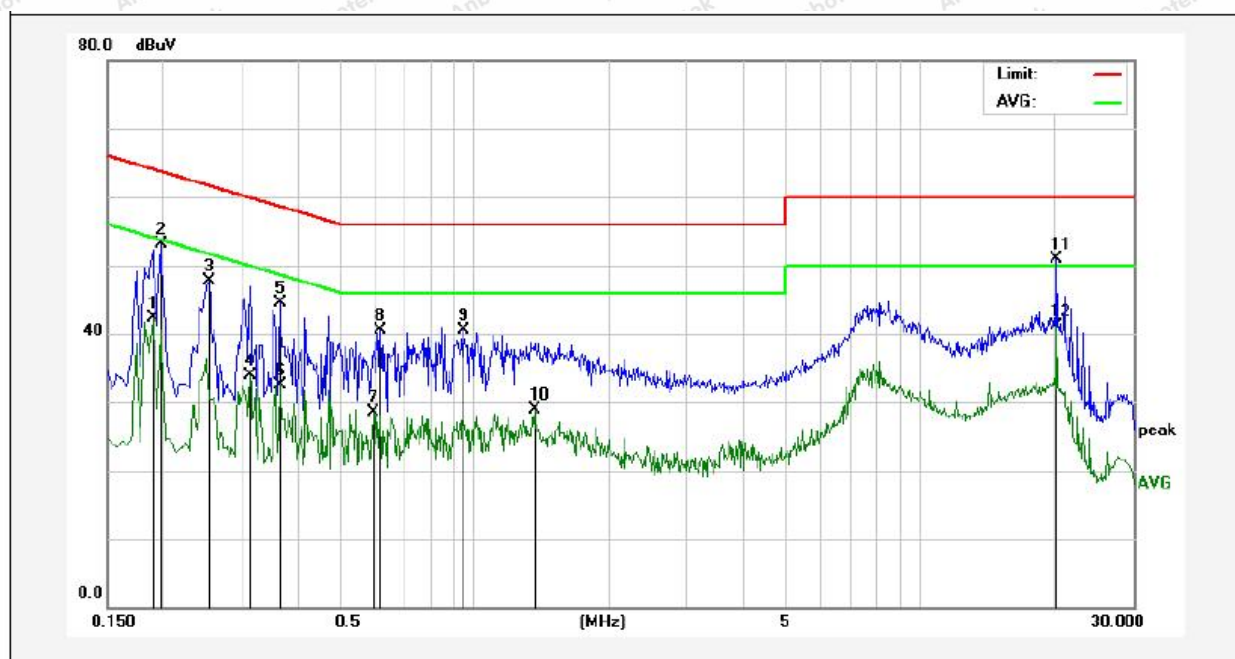


| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV) | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|--------------|-----------------|----------|--------|
| 1   | 0.1940      | 43.48          | 9.83        | 53.31         | 63.86        | -10.55          | QP       |        |
| 2   | 0.1940      | 34.21          | 9.83        | 44.04         | 53.86        | -9.82           | AVG      |        |
| 3   | 0.2580      | 38.38          | 9.83        | 48.21         | 61.49        | -13.28          | QP       |        |
| 4   | 0.2660      | 27.78          | 9.83        | 37.61         | 51.24        | -13.63          | AVG      |        |
| 5   | 0.3820      | 34.56          | 9.81        | 44.37         | 58.23        | -13.86          | QP       |        |
| 6   | 0.4740      | 22.43          | 9.84        | 32.27         | 46.44        | -14.17          | AVG      |        |
| 7   | 0.7220      | 18.45          | 9.87        | 28.32         | 46.00        | -17.68          | AVG      |        |
| 8   | 0.9700      | 30.13          | 9.85        | 39.98         | 56.00        | -16.02          | QP       |        |
| 9   | 7.6580      | 34.06          | 9.89        | 43.95         | 60.00        | -16.05          | QP       |        |
| 10  | 7.8380      | 25.88          | 9.90        | 35.78         | 50.00        | -14.22          | AVG      |        |
| 11  | 20.2500     | 39.33          | 10.34       | 49.67         | 60.00        | -10.33          | QP       |        |
| 12  | 20.2500     | 31.03          | 10.34       | 41.37         | 50.00        | -8.63           | AVG      |        |



**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
 Operating Condition: 802.11g 2462MHz  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Neutral Line  
 Temp.(°C)/Hum.(%RH): 22.5°C/49%RH  
 Model: H61C5

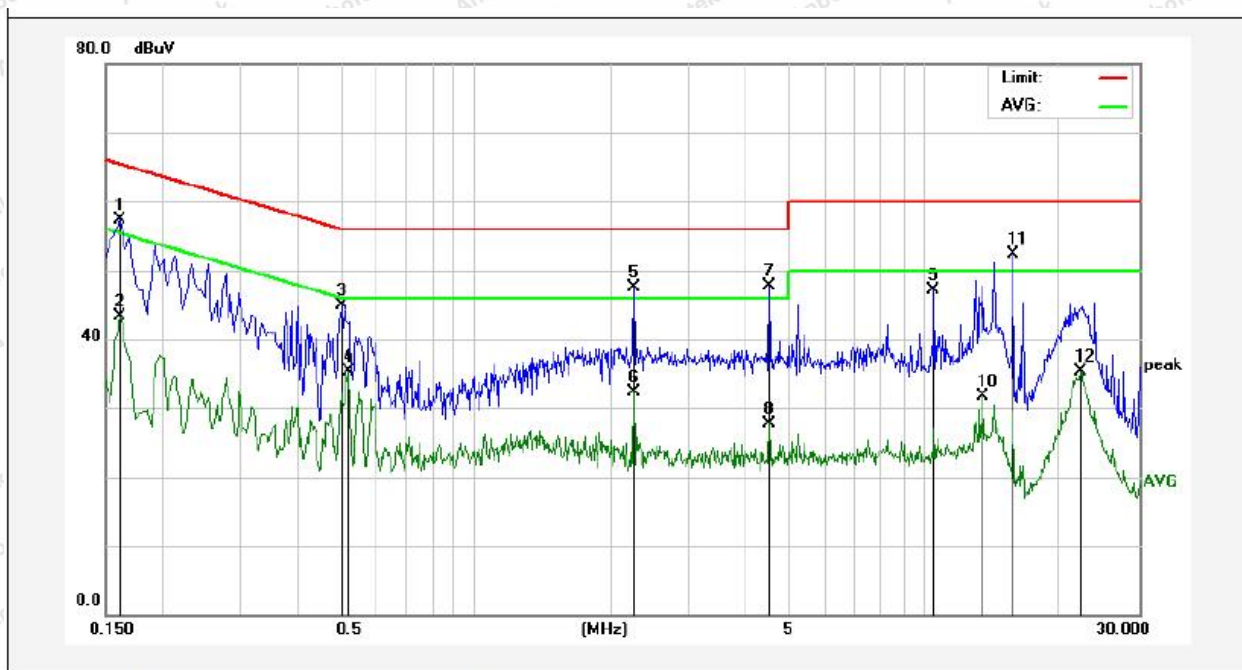


| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV) | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|--------------|-----------------|----------|--------|
| 1   | 0.1900      | 32.41          | 9.83        | 42.24         | 54.03        | -11.79          | AVG      |        |
| 2   | 0.1980      | 43.29          | 9.83        | 53.12         | 63.69        | -10.57          | QP       |        |
| 3   | 0.2540      | 37.81          | 9.83        | 47.64         | 61.62        | -13.98          | QP       |        |
| 4   | 0.3140      | 24.02          | 9.83        | 33.85         | 49.86        | -16.01          | AVG      |        |
| 5   | 0.3660      | 34.62          | 9.82        | 44.44         | 58.59        | -14.15          | QP       |        |
| 6   | 0.3660      | 22.78          | 9.82        | 32.60         | 48.59        | -15.99          | AVG      |        |
| 7   | 0.5940      | 18.63          | 9.86        | 28.49         | 46.00        | -17.51          | AVG      |        |
| 8   | 0.6140      | 30.58          | 9.86        | 40.44         | 56.00        | -15.56          | QP       |        |
| 9   | 0.9460      | 30.64          | 9.85        | 40.49         | 56.00        | -15.51          | QP       |        |
| 10  | 1.3619      | 19.13          | 9.84        | 28.97         | 46.00        | -17.03          | AVG      |        |
| 11  | 20.2500     | 40.47          | 10.34       | 50.81         | 60.00        | -9.19           | QP       |        |
| 12  | 20.2500     | 30.74          | 10.34       | 41.08         | 50.00        | -8.92           | AVG      |        |



**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
Operating Condition: 802.11g 2462MHz  
Test Specification: AC 120V, 60Hz for Adapter  
Comment: Live Line  
Temp.(°C)/Hum.(%RH): 22.5°C/49%RH  
Model: H61C2

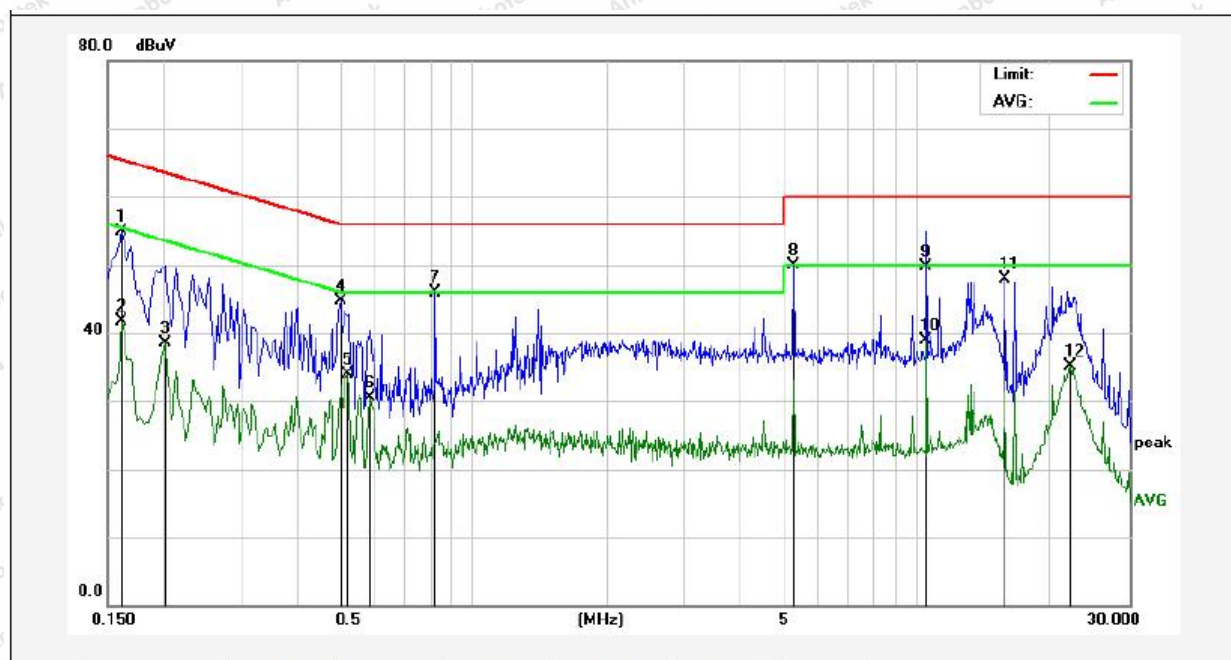


| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV) | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|--------------|-----------------|----------|--------|
| 1   | 0.1620      | 47.53          | 9.83        | 57.36         | 65.36        | -8.00           | QP       |        |
| 2   | 0.1620      | 33.41          | 9.83        | 43.24         | 55.36        | -12.12          | AVG      |        |
| 3   | 0.5060      | 35.00          | 9.85        | 44.85         | 56.00        | -11.15          | QP       |        |
| 4   | 0.5220      | 25.51          | 9.85        | 35.36         | 46.00        | -10.64          | AVG      |        |
| 5   | 2.2500      | 37.60          | 9.83        | 47.43         | 56.00        | -8.57           | QP       |        |
| 6   | 2.2500      | 22.53          | 9.83        | 32.36         | 46.00        | -13.64          | AVG      |        |
| 7   | 4.5020      | 37.95          | 9.85        | 47.80         | 56.00        | -8.20           | QP       |        |
| 8   | 4.5020      | 17.76          | 9.85        | 27.61         | 46.00        | -18.39          | AVG      |        |
| 9   | 10.4940     | 37.21          | 9.99        | 47.20         | 60.00        | -12.80          | QP       |        |
| 10  | 13.4980     | 21.59          | 10.11       | 31.70         | 50.00        | -18.30          | AVG      |        |
| 11  | 15.7500     | 42.03          | 10.19       | 52.22         | 60.00        | -7.78           | QP       |        |
| 12  | 22.2099     | 24.71          | 10.67       | 35.38         | 50.00        | -14.62          | AVG      |        |



**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
Operating Condition: 802.11g 2462MHz  
Test Specification: AC 120V, 60Hz for Adapter  
Comment: Neutral Line  
Temp.(°C)/Hum.(%RH): 22.5°C/49%RH  
Model: H61C2



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV) | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|--------------|-----------------|----------|--------|
| 1   | 0.1620      | 45.16          | 9.83        | 54.99         | 65.36        | -10.37          | QP       |        |
| 2   | 0.1620      | 31.85          | 9.83        | 41.68         | 55.36        | -13.68          | AVG      |        |
| 3   | 0.2020      | 28.68          | 9.83        | 38.51         | 53.52        | -15.01          | AVG      |        |
| 4   | 0.5020      | 34.80          | 9.85        | 44.65         | 56.00        | -11.35          | QP       |        |
| 5   | 0.5220      | 24.03          | 9.85        | 33.88         | 46.00        | -12.12          | AVG      |        |
| 6   | 0.5860      | 20.71          | 9.86        | 30.57         | 46.00        | -15.43          | AVG      |        |
| 7   | 0.8220      | 36.14          | 9.86        | 46.00         | 56.00        | -10.00          | QP       |        |
| 8   | 5.2500      | 40.12          | 9.85        | 49.97         | 60.00        | -10.03          | QP       |        |
| 9   | 10.4980     | 39.75          | 9.99        | 49.74         | 60.00        | -10.26          | QP       |        |
| 10  | 10.4980     | 29.00          | 9.99        | 38.99         | 50.00        | -11.01          | AVG      |        |
| 11  | 15.7540     | 37.69          | 10.19       | 47.88         | 60.00        | -12.12          | QP       |        |
| 12  | 22.1060     | 24.46          | 10.65       | 35.11         | 50.00        | -14.89          | AVG      |        |



## 4. Radiation Spurious Emission and Band Edge

### 4.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.209 and 15.205 |                                  |                |            |                          |
|---------------|----------------------------------------|----------------------------------|----------------|------------|--------------------------|
| Test Limit    | Frequency (MHz)                        | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark     | Measurement distance (m) |
|               | 0.009MHz~0.490MHz                      | 2400/F(kHz)                      | -              | -          | 300                      |
|               | 0.490MHz-1.705MHz                      | 24000/F(kHz)                     | -              | -          | 30                       |
|               | 1.705MHz-30MHz                         | 30                               | -              | -          | 30                       |
|               | 30MHz~88MHz                            | 100                              | 40.0           | Quasi-peak | 3                        |
|               | 88MHz~216MHz                           | 150                              | 43.5           | Quasi-peak | 3                        |
|               | 216MHz~960MHz                          | 200                              | 46.0           | Quasi-peak | 3                        |
|               | 960MHz~1000MHz                         | 500                              | 54.0           | Quasi-peak | 3                        |
|               | Above 1000MHz                          | 500                              | 54.0           | Average    | 3                        |
|               |                                        | -                                | 74.0           | Peak       | 3                        |

**Remark:**

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

### 4.2. Test Setup

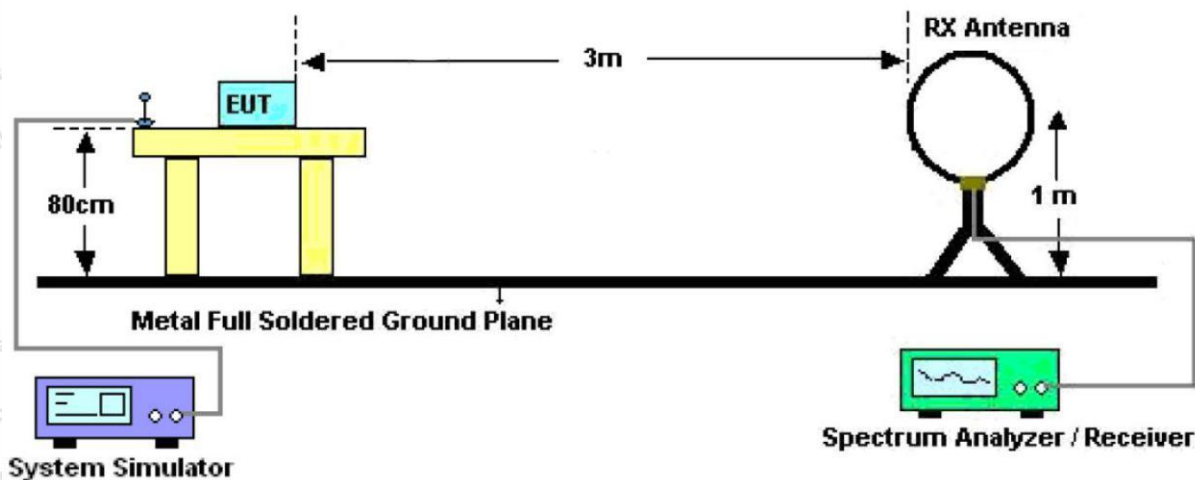


Figure 1. Below 30MHz



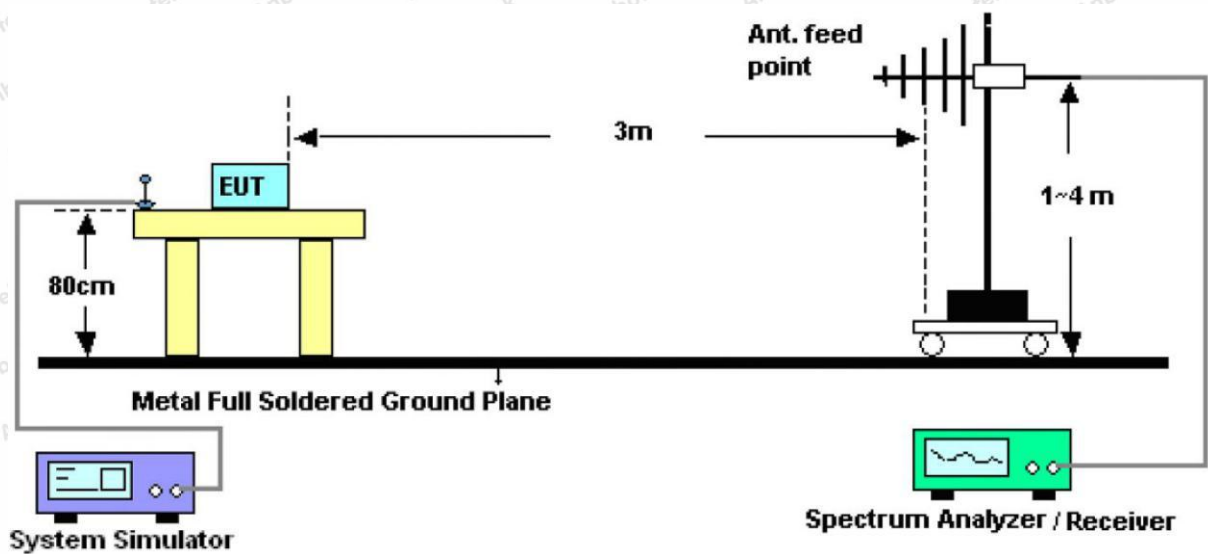


Figure 2. 30MHz to 1GHz

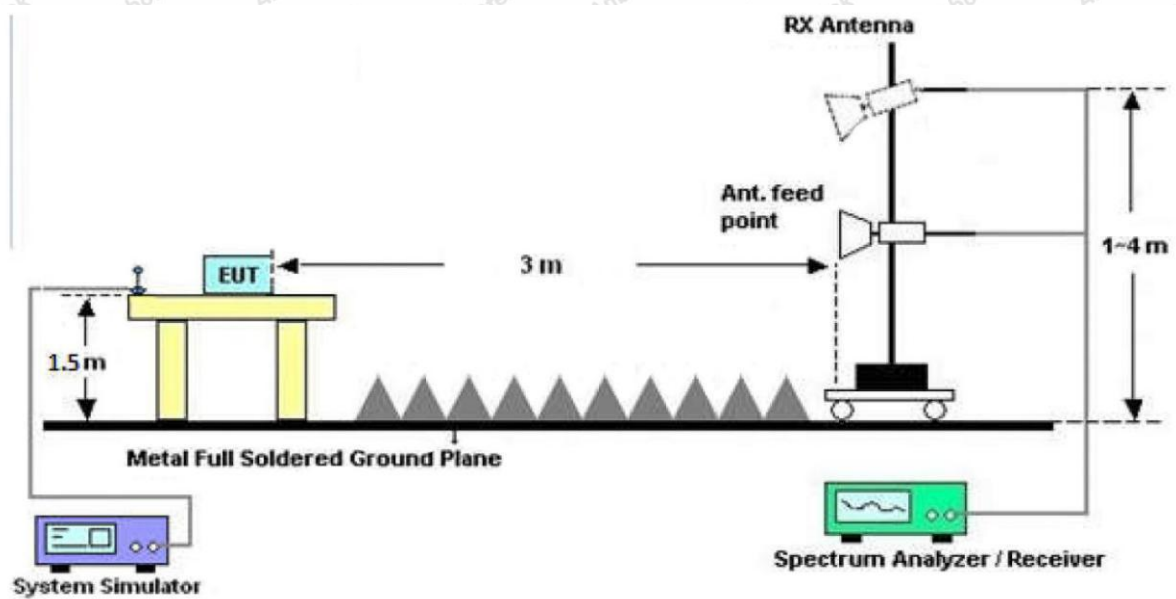


Figure 3. Above 1 GHz

### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn 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 which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.



For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

For average measurement:

–VBW=10Hz, When duty cycle is no less than 98 percent

–VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.4 duty cycle.

#### 4.4. Test Data

##### PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

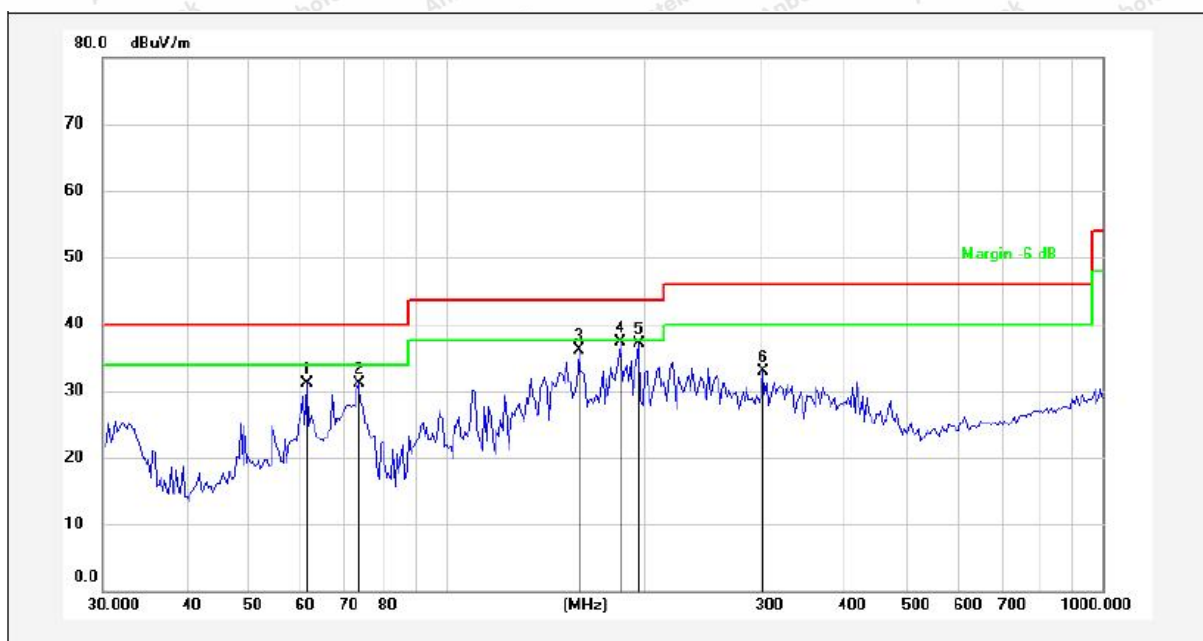
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, only the worst case is recorded in the report.



## Test Results (30~1000MHz)

Test Mode: 802.11g 2462MHz  
Power Source: AC 120V, 60Hz for Adapter  
Polarization: Horizontal  
Temp.(°C)/Hum.(%RH): 24.5°C/57%RH  
Model: H61C5

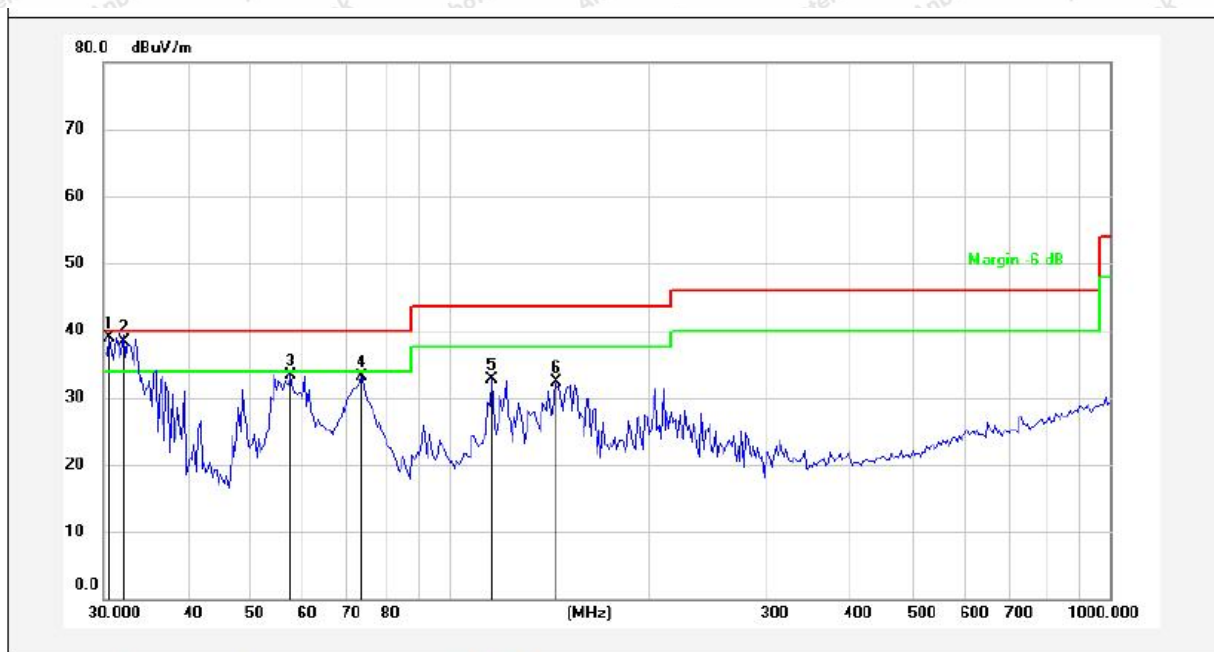


| No. | Freq. (MHz) | Reading (dBuV) | Factor ( ) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1   | 61.3462     | 49.39          | -18.23     | 31.16           | 40.00          | -8.84           | QP       |             |              |        |
| 2   | 73.6170     | 52.76          | -21.67     | 31.09           | 40.00          | -8.91           | QP       |             |              |        |
| 3   | 159.2247    | 56.74          | -20.57     | 36.17           | 43.50          | -7.33           | QP       |             |              |        |
| 4   | 184.4898    | 56.31          | -19.09     | 37.22           | 43.50          | -6.28           | QP       |             |              |        |
| 5   | 196.5098    | 55.42          | -18.39     | 37.03           | 43.50          | -6.47           | QP       |             |              |        |
| 6   | 303.5437    | 47.66          | -14.76     | 32.90           | 46.00          | -13.10          | QP       |             |              |        |



## Test Results (30~1000MHz)

Test Mode: 802.11g 2462MHz  
Power Source: AC 120V, 60Hz for Adapter  
Polarization: Vertical  
Temp.(°C)/Hum.(%RH): 24.5°C/57%RH  
Model: H61C5

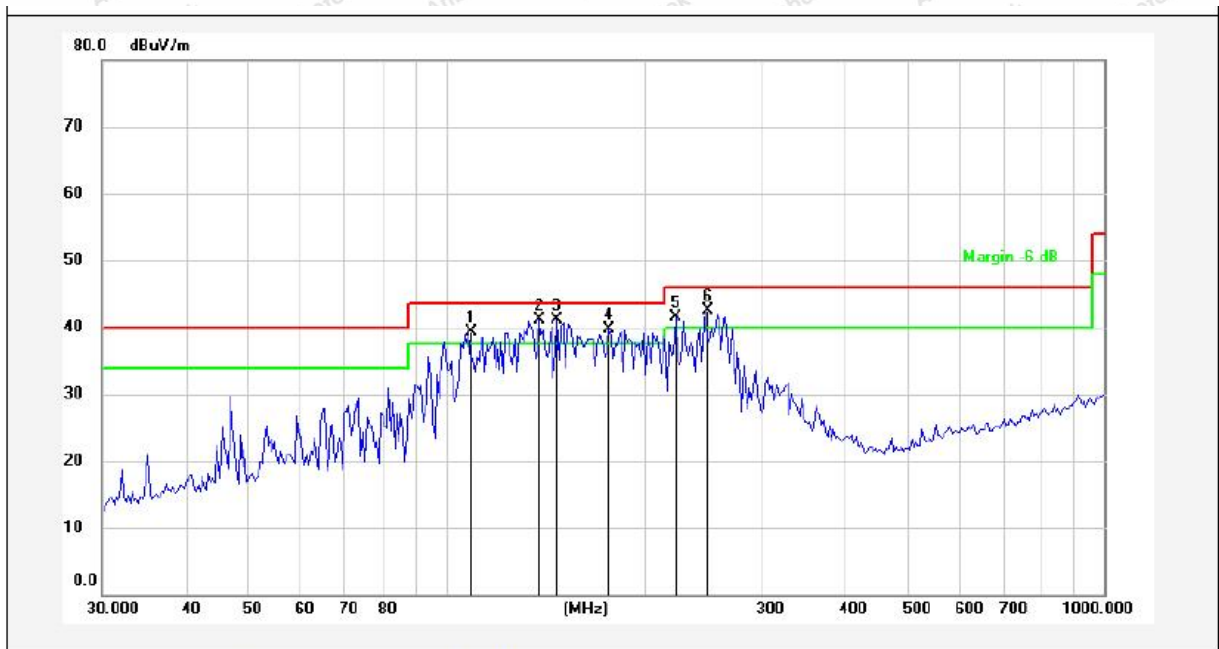


| No. | Freq.<br>(MHz) | Reading<br>(dBuV) | Factor<br>( ) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over Limit<br>(dB) | Detector | Height<br>(cm) | degree<br>(deg) | Remark |
|-----|----------------|-------------------|---------------|--------------------|-------------------|--------------------|----------|----------------|-----------------|--------|
| 1   | 30.6371        | 56.88             | -18.04        | 38.84              | 40.00             | -1.16              | QP       |                |                 |        |
| 2   | 32.1794        | 56.38             | -18.04        | 38.34              | 40.00             | -1.66              | QP       |                |                 |        |
| 3   | 57.5938        | 50.95             | -17.58        | 33.37              | 40.00             | -6.63              | QP       |                |                 |        |
| 4   | 73.6170        | 54.78             | -21.67        | 33.11              | 40.00             | -6.89              | QP       |                |                 |        |
| 5   | 116.1320       | 51.75             | -19.05        | 32.70              | 43.50             | -10.80             | QP       |                |                 |        |
| 6   | 144.3348       | 53.54             | -21.25        | 32.29              | 43.50             | -11.21             | QP       |                |                 |        |



## Test Results (30~1000MHz)

Test Mode: 802.11g 2462MHz  
Power Source: AC 120V, 60Hz for Adapter  
Polarization: Horizontal  
Temp.(°C)/Hum.(%RH): 24.5°C/57%RH  
Model: H61C2

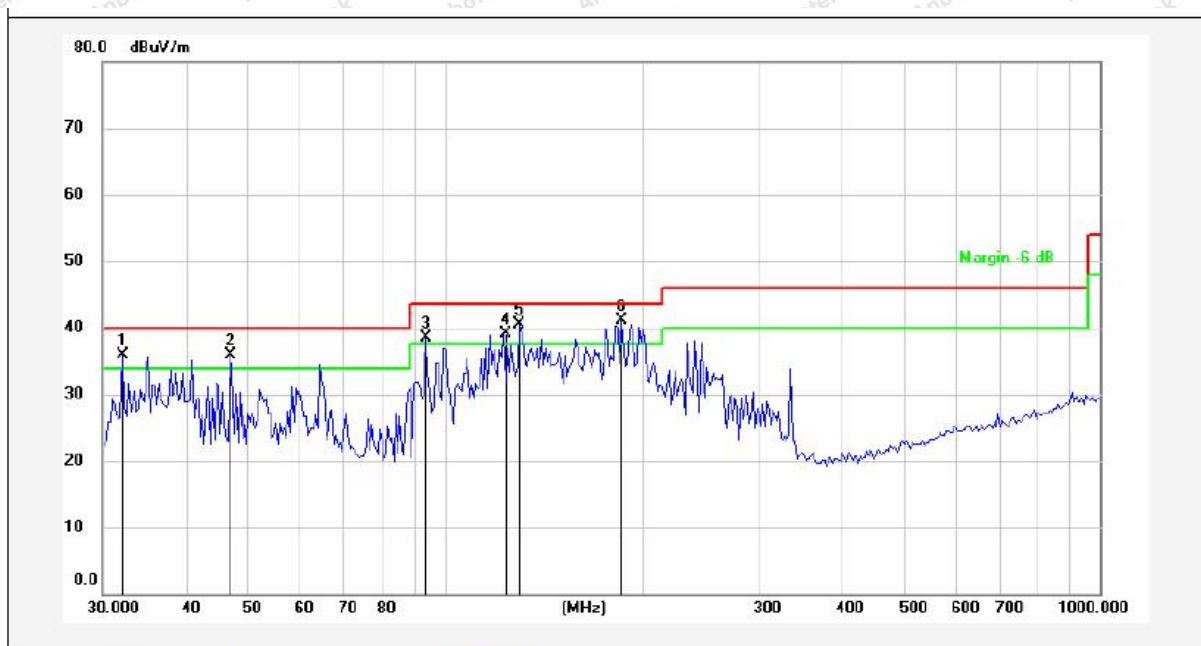


| No. | Freq. (MHz) | Reading (dBuV) | Factor ( ) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1   | 108.2667    | 57.33          | -18.03     | 39.30           | 43.50          | -4.20           | QP       |             |              |        |
| 2   | 138.3873    | 62.43          | -21.27     | 41.16           | 43.50          | -2.34           | QP       |             |              |        |
| 3   | 147.4036    | 62.31          | -21.18     | 41.13           | 43.50          | -2.37           | QP       |             |              |        |
| 4   | 176.8874    | 59.23          | -19.54     | 39.69           | 43.50          | -3.81           | QP       |             |              |        |
| 5   | 222.9500    | 58.65          | -17.21     | 41.44           | 46.00          | -4.56           | QP       |             |              |        |
| 6   | 247.6819    | 58.71          | -16.16     | 42.55           | 46.00          | -3.45           | QP       |             |              |        |



## Test Results (30~1000MHz)

Test Mode: 802.11g 2462MHz  
Power Source: AC 120V, 60Hz for Adapter  
Polarization: Vertical  
Temp.(°C)/Hum.(%RH): 24.5°C/57%RH  
Model: H61C2



| No. | Freq.<br>(MHz) | Reading<br>(dBuV) | Factor<br>( ) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over Limit<br>(dB) | Detector | Height<br>(cm) | degree<br>(deg) | Remark |
|-----|----------------|-------------------|---------------|--------------------|-------------------|--------------------|----------|----------------|-----------------|--------|
| 1   | 32.1794        | 53.88             | -18.04        | 35.84              | 40.00             | -4.16              | QP       |                |                 |        |
| 2   | 46.9947        | 53.06             | -17.07        | 35.99              | 40.00             | -4.01              | QP       |                |                 |        |
| 3   | 93.4402        | 56.38             | -17.85        | 38.53              | 43.50             | -4.97              | QP       |                |                 |        |
| 4   | 122.8340       | 58.98             | -19.91        | 39.07              | 43.50             | -4.43              | QP       |                |                 |        |
| 5   | 129.9225       | 61.27             | -20.80        | 40.47              | 43.50             | -3.03              | QP       |                |                 |        |
| 6   | 185.7880       | 60.15             | -19.02        | 41.13              | 43.50             | -2.37              | QP       |                |                 |        |



## Test Results (Above 1000MHz)

| Test Mode: 802.11g Mode |                |               | Test channel: Lowest |                     |                 |              |
|-------------------------|----------------|---------------|----------------------|---------------------|-----------------|--------------|
| Peak value:             |                |               |                      |                     |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m)      | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4824.00                 | 27.12          | 15.31         | 42.43                | 74.00               | -31.57          | Vertical     |
| 7236.00                 | 28.87          | 18.06         | 46.93                | 74.00               | -27.07          | Vertical     |
| 9648.00                 | 28.37          | 23.77         | 52.14                | 74.00               | -21.86          | Vertical     |
| 12060.00                | *              |               |                      | 74.00               |                 | Vertical     |
| 14472.00                | *              |               |                      | 74.00               |                 | Vertical     |
| 4824.00                 | 26.66          | 15.31         | 41.97                | 74.00               | -32.03          | Horizontal   |
| 7236.00                 | 28.64          | 18.06         | 46.70                | 74.00               | -27.30          | Horizontal   |
| 9648.00                 | 27.62          | 23.77         | 51.39                | 74.00               | -22.61          | Horizontal   |
| 12060.00                | *              |               |                      | 74.00               |                 | Horizontal   |
| 14472.00                | *              |               |                      | 74.00               |                 | Horizontal   |
| Average value:          |                |               |                      |                     |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m)      | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4824.00                 | 19.14          | 15.31         | 34.45                | 54.00               | -19.55          | Vertical     |
| 7236.00                 | 20.65          | 18.06         | 38.71                | 54.00               | -15.29          | Vertical     |
| 9648.00                 | 20.27          | 23.77         | 44.04                | 54.00               | -9.96           | Vertical     |
| 12060.00                | *              |               |                      | 54.00               |                 | Vertical     |
| 14472.00                | *              |               |                      | 54.00               |                 | Vertical     |
| 4824.00                 | 19.17          | 15.31         | 34.48                | 54.00               | -19.52          | Horizontal   |
| 7236.00                 | 21.21          | 18.06         | 39.27                | 54.00               | -14.73          | Horizontal   |
| 9648.00                 | 19.36          | 23.77         | 43.13                | 54.00               | -10.87          | Horizontal   |
| 12060.00                | *              |               |                      | 54.00               |                 | Horizontal   |
| 14472.00                | *              |               |                      | 54.00               |                 | Horizontal   |



## Test Results (Above 1000MHz)

| Test Mode: 802.11g Mode |                |               |                 | Test channel: Middle |                 |              |
|-------------------------|----------------|---------------|-----------------|----------------------|-----------------|--------------|
| Peak value:             |                |               |                 |                      |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)  | Over Limit (dB) | polarization |
| 4874.00                 | 27.07          | 15.41         | 42.48           | 74.00                | -31.52          | Vertical     |
| 7311.00                 | 27.22          | 18.01         | 45.23           | 74.00                | -28.77          | Vertical     |
| 9748.00                 | 28.31          | 23.79         | 52.10           | 74.00                | -21.90          | Vertical     |
| 12185.00                | *              |               |                 | 74.00                |                 | Vertical     |
| 14622.00                | *              |               |                 | 74.00                |                 | Vertical     |
| 4874.00                 | 26.46          | 15.41         | 41.87           | 74.00                | -32.13          | Horizontal   |
| 7311.00                 | 27.56          | 18.01         | 45.57           | 74.00                | -28.43          | Horizontal   |
| 9748.00                 | 27.92          | 23.79         | 51.71           | 74.00                | -22.29          | Horizontal   |
| 12185.00                | *              |               |                 | 74.00                |                 | Horizontal   |
| 14622.00                | *              |               |                 | 74.00                |                 | Horizontal   |
| Average value:          |                |               |                 |                      |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)  | Over Limit (dB) | polarization |
| 4874.00                 | 17.89          | 15.41         | 33.30           | 54.00                | -20.70          | Vertical     |
| 7311.00                 | 18.12          | 18.01         | 36.13           | 54.00                | -17.87          | Vertical     |
| 9748.00                 | 18.56          | 23.79         | 42.35           | 54.00                | -11.65          | Vertical     |
| 12185.00                | *              |               |                 | 54.00                |                 | Vertical     |
| 14622.00                | *              |               |                 | 54.00                |                 | Vertical     |
| 4874.00                 | 17.56          | 15.41         | 32.97           | 54.00                | -21.03          | Horizontal   |
| 7311.00                 | 17.64          | 18.01         | 35.65           | 54.00                | -18.35          | Horizontal   |
| 9748.00                 | 18.63          | 23.79         | 42.42           | 54.00                | -11.58          | Horizontal   |
| 12185.00                | *              |               |                 | 54.00                |                 | Horizontal   |
| 14622.00                | *              |               |                 | 54.00                |                 | Horizontal   |



## Test Results (Above 1000MHz)

| Test Mode: 802.11g Mode |                |               |                 | Test channel: Highest |                 |              |
|-------------------------|----------------|---------------|-----------------|-----------------------|-----------------|--------------|
| Peak value:             |                |               |                 |                       |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)   | Over Limit (dB) | polarization |
| 4924.00                 | 26.93          | 15.51         | 42.44           | 74.00                 | -31.56          | Vertical     |
| 7386.00                 | 27.16          | 17.97         | 45.13           | 74.00                 | -28.87          | Vertical     |
| 9848.00                 | 27.75          | 23.82         | 51.57           | 74.00                 | -22.43          | Vertical     |
| 12310.00                | *              |               |                 | 74.00                 |                 | Vertical     |
| 14772.00                | *              |               |                 | 74.00                 |                 | Vertical     |
| 4924.00                 | 27.12          | 15.51         | 42.63           | 74.00                 | -31.37          | Horizontal   |
| 7386.00                 | 27.91          | 17.97         | 45.88           | 74.00                 | -28.12          | Horizontal   |
| 9848.00                 | 28.42          | 23.82         | 52.24           | 74.00                 | -21.76          | Horizontal   |
| 12310.00                | *              |               |                 | 74.00                 |                 | Horizontal   |
| 14772.00                | *              |               |                 | 74.00                 |                 | Horizontal   |
| Average value:          |                |               |                 |                       |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)   | Over Limit (dB) | polarization |
| 4924.00                 | 17.72          | 15.51         | 33.23           | 54.00                 | -20.77          | Vertical     |
| 7386.00                 | 17.56          | 17.97         | 35.53           | 54.00                 | -18.47          | Vertical     |
| 9848.00                 | 19.00          | 23.82         | 42.82           | 54.00                 | -11.18          | Vertical     |
| 12310.00                | *              |               |                 | 54.00                 |                 | Vertical     |
| 14772.00                | *              |               |                 | 54.00                 |                 | Vertical     |
| 4924.00                 | 17.37          | 15.51         | 32.88           | 54.00                 | -21.12          | Horizontal   |
| 7386.00                 | 18.02          | 17.97         | 35.99           | 54.00                 | -18.01          | Horizontal   |
| 9848.00                 | 18.86          | 23.82         | 42.68           | 54.00                 | -11.32          | Horizontal   |
| 12310.00                | *              |               |                 | 54.00                 |                 | Horizontal   |
| 14772.00                | *              |               |                 | 54.00                 |                 | Horizontal   |

## Remark:

1. During the test, pre-scan the 802.11b,g,n(HT20) mode, and found the 802.11g mode is worse case , the report only record this mode.
2. Result=Reading + Factor
3. “\*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



**Radiated Band Edge:**

| Test Mode: 802.11b Mode |                |               |                 | Test channel: Lowest |                 |              |
|-------------------------|----------------|---------------|-----------------|----------------------|-----------------|--------------|
| Peak value:             |                |               |                 |                      |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)  | Over Limit (dB) | Polarization |
| 2310.00                 | 37.66          | 9.58          | 47.24           | 74.00                | -26.76          | Horizontal   |
| 2390.00                 | 40.34          | 9.73          | 50.07           | 74.00                | -23.93          | Horizontal   |
| 2310.00                 | 38.86          | 9.58          | 48.44           | 74.00                | -25.56          | Vertical     |
| 2390.00                 | 45.87          | 9.73          | 55.60           | 74.00                | -18.40          | Vertical     |
| Average value:          |                |               |                 |                      |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)  | Over Limit (dB) | Polarization |
| 2310.00                 | 28.27          | 9.58          | 37.85           | 54.00                | -16.15          | Horizontal   |
| 2390.00                 | 35.42          | 9.73          | 45.15           | 54.00                | -8.85           | Horizontal   |
| 2310.00                 | 29.78          | 9.58          | 39.36           | 54.00                | -14.64          | Vertical     |
| 2390.00                 | 37.74          | 9.73          | 47.47           | 54.00                | -6.53           | Vertical     |

| Test Mode: 802.11b Mode |                |               |                 | Test channel: Highest |                 |              |
|-------------------------|----------------|---------------|-----------------|-----------------------|-----------------|--------------|
| Peak value:             |                |               |                 |                       |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)   | Over Limit (dB) | Polarization |
| 2483.50                 | 46.03          | 9.91          | 55.94           | 74.00                 | -18.06          | Horizontal   |
| 2500.00                 | 39.77          | 9.94          | 49.71           | 74.00                 | -24.29          | Horizontal   |
| 2483.50                 | 46.39          | 9.91          | 56.30           | 74.00                 | -17.70          | Vertical     |
| 2500.00                 | 39.38          | 9.94          | 49.32           | 74.00                 | -24.68          | Vertical     |
| Average value:          |                |               |                 |                       |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)   | Over Limit (dB) | Polarization |
| 2483.50                 | 37.07          | 9.91          | 46.98           | 54.00                 | -7.02           | Horizontal   |
| 2500.00                 | 28.78          | 9.94          | 38.72           | 54.00                 | -15.28          | Horizontal   |
| 2483.50                 | 38.47          | 9.91          | 48.38           | 54.00                 | -5.62           | Vertical     |
| 2500.00                 | 29.33          | 9.94          | 39.27           | 54.00                 | -14.73          | Vertical     |

Remark: 1. Result=Reading + Factor



**Radiated Band Edge:**

| Test Mode: 802.11g Mode |                |               |                 | Test channel: Lowest |                 |              |
|-------------------------|----------------|---------------|-----------------|----------------------|-----------------|--------------|
| Peak value:             |                |               |                 |                      |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)  | Over Limit (dB) | Polarization |
| 2310.00                 | 36.54          | 9.58          | 46.12           | 74.00                | -27.88          | Horizontal   |
| 2390.00                 | 40.04          | 9.73          | 49.77           | 74.00                | -24.23          | Horizontal   |
| 2310.00                 | 38.21          | 9.58          | 47.79           | 74.00                | -26.21          | Vertical     |
| 2390.00                 | 41.74          | 9.73          | 51.47           | 74.00                | -22.53          | Vertical     |
| Average value:          |                |               |                 |                      |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)  | Over Limit (dB) | Polarization |
| 2310.00                 | 28.54          | 9.58          | 38.12           | 54.00                | -15.88          | Horizontal   |
| 2390.00                 | 34.56          | 9.73          | 44.29           | 54.00                | -9.71           | Horizontal   |
| 2310.00                 | 29.63          | 9.58          | 39.21           | 54.00                | -14.79          | Vertical     |
| 2390.00                 | 35.55          | 9.73          | 45.28           | 54.00                | -8.72           | Vertical     |

| Test Mode: 802.11g Mode |                |               |                 | Test channel: Highest |                 |              |
|-------------------------|----------------|---------------|-----------------|-----------------------|-----------------|--------------|
| Peak value:             |                |               |                 |                       |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)   | Over Limit (dB) | Polarization |
| 2483.50                 | 46.01          | 9.91          | 55.92           | 74.00                 | -18.08          | Horizontal   |
| 2500.00                 | 39.64          | 9.94          | 49.58           | 74.00                 | -24.42          | Horizontal   |
| 2483.50                 | 46.11          | 9.91          | 56.02           | 74.00                 | -17.98          | Vertical     |
| 2500.00                 | 39.27          | 9.94          | 49.21           | 74.00                 | -24.79          | Vertical     |
| Average value:          |                |               |                 |                       |                 |              |
| Frequency (MHz)         | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)   | Over Limit (dB) | Polarization |
| 2483.50                 | 35.24          | 9.91          | 45.15           | 54.00                 | -8.85           | Horizontal   |
| 2500.00                 | 27.88          | 9.94          | 37.82           | 54.00                 | -16.18          | Horizontal   |
| 2483.50                 | 37.42          | 9.91          | 47.33           | 54.00                 | -6.67           | Vertical     |
| 2500.00                 | 28.86          | 9.94          | 38.80           | 54.00                 | -15.20          | Vertical     |

Remark: 1. Result=Reading + Factor



**Radiated Band Edge:**

| Test Mode: 802.11n (HT20) Mode |                |               |                 | Test channel: Lowest |                 |              |
|--------------------------------|----------------|---------------|-----------------|----------------------|-----------------|--------------|
| Peak value:                    |                |               |                 |                      |                 |              |
| Frequency (MHz)                | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)  | Over Limit (dB) | Polarization |
| 2310.00                        | 34.54          | 9.58          | 44.12           | 74.00                | -29.88          | Horizontal   |
| 2390.00                        | 38.04          | 9.73          | 47.77           | 74.00                | -26.23          | Horizontal   |
| 2310.00                        | 37.21          | 9.58          | 46.79           | 74.00                | -27.21          | Vertical     |
| 2390.00                        | 39.74          | 9.73          | 49.47           | 74.00                | -24.53          | Vertical     |
| Average value:                 |                |               |                 |                      |                 |              |
| Frequency (MHz)                | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)  | Over Limit (dB) | Polarization |
| 2310.00                        | 27.22          | 9.58          | 36.80           | 54.00                | -17.20          | Horizontal   |
| 2390.00                        | 32.50          | 9.73          | 42.23           | 54.00                | -11.77          | Horizontal   |
| 2310.00                        | 27.24          | 9.58          | 36.82           | 54.00                | -17.18          | Vertical     |
| 2390.00                        | 33.55          | 9.73          | 43.28           | 54.00                | -10.72          | Vertical     |

| Test Mode: 802.11n (HT20) Mode |                |               |                 | Test channel: Highest |                 |              |
|--------------------------------|----------------|---------------|-----------------|-----------------------|-----------------|--------------|
| Peak value:                    |                |               |                 |                       |                 |              |
| Frequency (MHz)                | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)   | Over Limit (dB) | Polarization |
| 2483.50                        | 43.80          | 9.91          | 53.71           | 74.00                 | -20.29          | Horizontal   |
| 2500.00                        | 37.77          | 9.94          | 47.71           | 74.00                 | -26.29          | Horizontal   |
| 2483.50                        | 45.39          | 9.91          | 55.30           | 74.00                 | -18.70          | Vertical     |
| 2500.00                        | 39.38          | 9.94          | 49.32           | 74.00                 | -24.68          | Vertical     |
| Average value:                 |                |               |                 |                       |                 |              |
| Frequency (MHz)                | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m)   | Over Limit (dB) | Polarization |
| 2483.50                        | 33.22          | 9.91          | 43.13           | 54.00                 | -10.87          | Horizontal   |
| 2500.00                        | 28.03          | 9.94          | 37.97           | 54.00                 | -16.03          | Horizontal   |
| 2483.50                        | 34.24          | 9.91          | 44.15           | 54.00                 | -9.85           | Vertical     |
| 2500.00                        | 29.00          | 9.94          | 38.94           | 54.00                 | -15.06          | Vertical     |

Remark: 1. Result=Reading + Factor

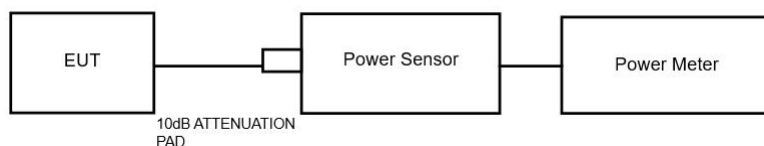


## 5. Maximum Peak Output Power Test

### 5.1. Test Standard and Limit

|               |                                    |
|---------------|------------------------------------|
| Test Standard | FCC Part15 C Section 15.247 (b)(3) |
| Test Limit    | 1W (30dBm)                         |

### 5.2. Test Setup



### 5.3. Test Procedure

1. The Transmitter output (antenna port) was connected to the power meter.
2. Turn on the EUT and power meter and then record the power value.
3. Repeat above procedures on all channels needed to be tested.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

### 5.4. Test Data

Pass

Note: For pre-scan, the result is equal to original, so the original data is referenced.

| Test Mode | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] |
|-----------|---------|----------------|-----------------|----------------------|
| 11B       | Ant1    | 2412           | 17.39           | ≤30.00               |
|           |         | 2437           | 17.58           | ≤30.00               |
|           |         | 2462           | 17.82           | ≤30.00               |
| 11G       | Ant1    | 2412           | 17.90           | ≤30.00               |
|           |         | 2437           | 18.19           | ≤30.00               |
|           |         | 2462           | 18.46           | ≤30.00               |
| 11N20     | Ant1    | 2412           | 17.85           | ≤30.00               |
|           |         | 2437           | 18.17           | ≤30.00               |
|           |         | 2462           | 18.34           | ≤30.00               |



## 6. Antenna Requirement

### 6.1. Test Standard and Requirement

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Standard | FCC Part15 Section 15.203 /247(c)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Requirement   | <p>1) 15.203 requirement:<br/>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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>2) 15.247(c) (1)(i) requirement:<br/>Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.</p> |

### 6.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 3.85dBi It complies with the standard requirement.



## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph

## **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

