



## SPECTRUM REPORT

**Applicant:** SHENZHEN WLINK TECHNOLOGY CO., LIMITED

**Address of Applicant:** 319,YiBen Electronic Business Building, NO.1063 ChaGuang Road, XiLi, NanShan District, ShenZhen, China

**Manufacturer:** SHENZHEN WLINK TECHNOLOGY CO., LIMITED

**Address of Manufacturer:** 319,YiBen Electronic Business Building, NO.1063 ChaGuang Road, XiLi, NanShan District, ShenZhen, China

**Factory:** SHENZHEN WLINK TECHNOLOGY CO., LIMITED

**Address of Factory:** 319,YiBen Electronic Business Building, NO.1063 ChaGuang Road, XiLi, NanShan District, ShenZhen, China

**Equipment Under Test (EUT)**

Product Name: Industrial 3G/4G Cellular Router

Model No.: WL-G500

**Applicable standards:** ETSI EN 300 440 V2.1.1 (2017-03)

**Date of sample receipt:** May 27, 2017

**Date of Test:** May 27-June 23, 2017

**Date of report issue:** June 28, 2017

**Test Result :** PASS \*

\*In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 2014/53/EU are considered.



**Robinson Lo**  
**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | June 28, 2017 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

Prepared By:

*Tiger Chen*

Date:

June 28, 2017

Project Engineer

Check By:

*Andy Wu*

Date:

June 28, 2017

Reviewer

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## 4 Test Summary

| Radio Spectrum Matter (RSM) Part of Transmitter   |                  |                |                            |                    |        |
|---|------------------|----------------|----------------------------|--------------------|--------|
| Test  | Test Requirement | Test method    | Limit/Severity             | Uncertainty        | Result |
| Equivalent isotropically radiated power(e.i.r.p.) | Clause 4.2.2.1   | Clause 4.2.2.3 | Table 2<br>25mW/ 14Bm      | ± 3dB              | PASS   |
| Permitted Range of Operating Frequencies          | Clause 4.2.3.1   | Clause 4.2.3.3 | Table 2                    | ± 10 <sup>-7</sup> | PASS   |
| Duty cycle  | Clause 4.2.5.1   | Clause 4.2.5.3 | Table 4                    | N/A                | N/A    |
| Transmitter spurious emissions                    | Clause 4.2.4.1   | Clause 4.2.4.3 | Table 3                    | ± 6 dB             | PASS   |
| Radio Spectrum Matter (RSM) Part of Receiver      |                  |                |                            |                    |        |
| Receiver spurious emissions                       | Clause 4.3.5.1   | Clause 4.3.5.3 | <2nW <1GHz,<br><20nW >1GHz | ± 6dB              | PASS   |

Remark:

Temperature (Uncertainty): ±1°C    Humidity(Uncertainty): ±5%

## 5 General Information

### 5.1 General Description of EUT

|                        |  |
|------------------------|--|
| Product Name:          | Industrial 3G/4G Cellular Router   |
| Model No.:             | WL-G500  |
| Operation Frequency:   | 5745MHz ~ 5825MHz  |
| Channel separation:    | 20MHz for 802.11a/802.11n(HT20)/ 802.11ac(HT20)<br>40MHz for 802.11n(HT40) /802.11ac(HT40)<br>80MHz for 802.11ac(HT80) |
| Modulation technology: | Orthogonal Frequency Division Multiplexing(OFDM)   |
| Antenna Type:          | Integrated Antenna   |
| Antenna gain:          | Main Antenna: 3.0dBi(declared by Applicant)<br>Aux Antenna: 3.0dBi(declared by Applicant)                              |
| Power Supply:          | Adapter<br>Model:RD1201500-C55-1OG<br>INPUT: AC 100-240V,50/60Hz,0.6A Max<br>OUTPUT: DC 12V1.5A                        |

## 5.2 Description of Support Units

The EUT was test as an independent unit

| Channel List for SRD (20MHz bandwidth) @ 5.8G band |             |             |             |             |             |             |             |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1  | 5745        | 2           | 5765        | 3           | 5785        | 4           | 5805        |
| 5  | 5825        |             |             |             |             |             |             |
| Channel List for SRD (40MHz bandwidth) @ 5.8G band |             |             |             |             |             |             |             |
| Channel No.  | Channel No. | Channel No. | Channel No. | Channel No. | Channel No. | Channel No. | Channel No. |
| 1  | 5755        | 2           | 5795        |             |             |             |             |
| Channel List for SRD (80MHz bandwidth) @ 5.8G band |             |             |             |             |             |             |             |
| Channel No.  | Channel No. | Channel No. | Channel No. | Channel No. | Channel No. | Channel No. | Channel No. |
| 1  | 5775        |             |             |             |             |             |             |

## 5.3 Test Facility

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

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 600491, June 22, 2016.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016

## 5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.  
Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,  
Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102  
Tel: 0755-27798480  
Fax: 0755-27798960

## 5.5 Description of Support Units

The EUT has been tested as an independent unit.

## 5.6 Deviation from Standards

None.

## 5.7 Abnormalities from Standard Conditions

None.

## 5.8 Other Information Requested by the Customer

None.

## 6 Test Instruments list

| Radiated Emission: |                                      |                  |                       |               |                     |                         |
|--------------------|--------------------------------------|------------------|-----------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment                       | Manufacturer     | Model No.             | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | 3m Semi- Anechoic Chamber            | ZhongYu Electron | 9.0(L)*6.0(W)* 6.0(H) | GTS250        | July. 03 2015       | July. 02 2020           |
| 2                  | Control Room                         | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251        | N/A                 | N/A                     |
| 3                  | ESU EMI Test Receiver                | R&S              | ESU26                 | GTS203        | June. 29 2016       | June. 28 2017           |
| 4                  | BiConiLog Antenna                    | SCHWARZBECK      | VULB9163              | GTS214        | June. 29 2016       | June. 28 2017           |
| 5                  | Double-ridged horn antenna           | SCHWARZBECK      | 9120D                 | GTS208        | June. 29 2016       | June. 28 2017           |
| 6                  | Horn Antenna                         | ETS-LINDGREN     | 3160-09               | GTS218        | June. 29 2016       | June. 28 2017           |
| 7                  | RF Amplifier                         | HP               | 8347A                 | GTS204        | June. 29 2016       | June. 28 2017           |
| 8                  | RF Amplifier                         | HP               | 8349B                 | GTS206        | June. 29 2016       | June. 28 2017           |
| 9                  | Broadband Preamplifier               | SCHWARZBECK      | BBV9718               | GTS535        | June. 29 2016       | June. 28 2017           |
| 10                 | PSA Series Spectrum Analyzer         | Agilent          | E4440A                | GTS536        | June. 29 2016       | June. 28 2017           |
| 11                 | Universal Radio Communication tester | ROHDE&SCHWARZ    | CMU 200               | GTS538        | June. 29 2016       | June. 28 2017           |
| 12                 | EMI Test Software                    | AUDIX            | E3                    | N/A           | N/A                 | N/A                     |
| 13                 | Coaxial cable                        | GTS              | N/A                   | GTS210        | N/A                 | N/A                     |
| 14                 | Coaxial Cable                        | GTS              | N/A                   | GTS211        | N/A                 | N/A                     |
| 15                 | Thermo meter                         | N/A              | N/A                   | GTS256        | June. 29 2016       | June. 28 2017           |



## 7 Radio Technical Requirements Specification in EN 300 440

### 7.1 Test environment

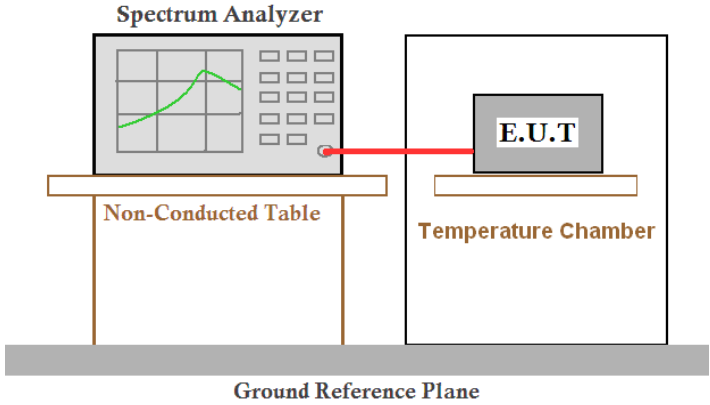
| Test Condition | Temperature   | Relative Humidity | Voltage                    |                               |   |
|----------------|---|-------------------|----------------------------|-------------------------------|---|
|                |   |                   | AC mains                   | Lead-acid battery on vehicles | Other power sources   |
| Normal         | +15°C to +35°C  | 20% to 75%        | nominal                    | 1,1 times the nominal voltage | nominal   |
| Extreme        | -20°C to +55°C<br>(General use)<br>-20°C to +55°C<br>(Portable use)<br>5°C to +35°C<br>(Indoor use) | 20% to 75%        | ▼ 0,9 times<br>▲ 1,1 times | ▼ 0,9 times<br>▲ 1,3 times    | ▼ 0,85 times<br>(Leclanché or lithium)<br>0,9 times (mercury or nickel-cadmium)<br>▲ 1,15 times |

### 7.2 Test mode

|                    |  |
|--------------------|--|
| Transmitting mode: | Keep the EUT in transmitting mode with modulation. |
|--------------------|--|

## 7.3 Transmitter requirement

### 7.3.1 Equivalent Isotropically Radiated Power

|                            |  |
|----------------------------|--|
| <b>Test Requirement:</b>   | ETSI EN 300 440 clause 4.2.2.1   |
| <b>Test Method:</b>        | ETSI EN 300 440 clause 4.2.2.3   |
| <b>Limit:</b>              | 14dBm  |
| <b>Test setup:</b>         |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is placed on a Non-Conducted Table. A red cable connects the Spectrum Analyzer to an E.U.T. (Equipment Under Test) located inside a Temperature Chamber. Both the table and the chamber are situated on a Ground Reference Plane.</p>  |
| <b>Test procedure:</b>     | <ol style="list-style-type: none"> <li>1&gt;. The output of the transmitter shall be connected to the spectrum analyzer.</li> <li>2&gt;. Set the Spectrum Analyzer as below:<br/>RBW=VBW=1MHz, Span=0Hz, Detector=Peak;<br/>read out the duty cycle(X) of the transmitter.</li> <li>3&gt;. Adjust the test Frequency in spectrum analyzer, use the channel power function of Spectrum Analyzer, and the spectrum analyzer was set as below:<br/>RBW=VBW=1MHz, Detector=average,<br/>read out the average output power A.</li> <li>4&gt;. The E.I.R.P. shall be calculated from the above measured power output A, the observed duty cycle x, cable loss, and the applicable antenna assembly gain "G" in dBi, according to the formula:<br/><math display="block">P = A + G + \text{Cable loss} + 10 \log (1/x);</math></li> <li>5&gt;. Repeated the test in extreme test conditions.</li> </ol> |
| <b>Test mode:</b>          | Refer to section 7.2 for details   |
| <b>Test Instruments:</b>   | Refer to section 6.0 for details   |
| <b>Measurement Record:</b> | <b>Uncertainty: ± 1.5dB</b>  |

**Measurement Data**

Main antenna:

| 802.11a(HT20)   |       |                 |                  |                   |                 |            |             |        |
|-----------------|-------|-----------------|------------------|-------------------|-----------------|------------|-------------|--------|
| Test conditions |       | Frequency (MHz) | Read Level (dBm) | Antenna Gain(dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
| Volt(AC)        | Temp  |                 |                  |                   |                 |            |             |        |
| 230V            | 25°C  | 5745            | 7.96             | 3.0               | 0.50            | 11.50      | 14          | PASS   |
|                 |       | 5785            | 8.71             | 3.0               | 0.50            | 12.25      |             |        |
|                 |       | 5825            | 8.24             | 3.0               | 0.50            | 11.78      |             |        |
| 207V            | 55°C  | 5745            | 8.64             | 3.0               | 0.50            | 12.18      |             |        |
|                 |       | 5785            | 8.01             | 3.0               | 0.50            | 11.55      |             |        |
|                 |       | 5825            | 7.36             | 3.0               | 0.50            | 10.90      |             |        |
| 253V            | 55°C  | 5745            | 7.06             | 3.0               | 0.50            | 10.60      |             |        |
|                 |       | 5785            | 7.55             | 3.0               | 0.50            | 11.09      |             |        |
|                 |       | 5825            | 7.67             | 3.0               | 0.50            | 11.21      |             |        |
| 207V            | -20°C | 5745            | 8.86             | 3.0               | 0.50            | 12.40      |             |        |
|                 |       | 5785            | 6.57             | 3.0               | 0.50            | 10.11      |             |        |
|                 |       | 5825            | 7.94             | 3.0               | 0.50            | 11.48      |             |        |
| 253V            | -20°C | 5745            | 7.04             | 3.0               | 0.50            | 10.58      |             |        |
|                 |       | 5785            | 7.68             | 3.0               | 0.50            | 11.22      |             |        |
|                 |       | 5825            | 8.13             | 3.0               | 0.50            | 11.67      |             |        |

Aux antenna:

| 802.11a(HT20)   |       |                 |                  |                   |                 |            |             |        |
|-----------------|-------|-----------------|------------------|-------------------|-----------------|------------|-------------|--------|
| Test conditions |       | Frequency (MHz) | Read Level (dBm) | Antenna Gain(dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
| Volt(AC)        | Temp  |                 |                  |                   |                 |            |             |        |
| 230V            | 25°C  | 5745            | 6.66             | 3.0               | 0.50            | 10.20      | 14          | PASS   |
|                 |       | 5785            | 7.41             | 3.0               | 0.50            | 10.95      |             |        |
|                 |       | 5825            | 8.28             | 3.0               | 0.50            | 11.82      |             |        |
| 207V            | 55°C  | 5745            | 8.17             | 3.0               | 0.50            | 11.71      |             |        |
|                 |       | 5785            | 7.61             | 3.0               | 0.50            | 11.15      |             |        |
|                 |       | 5825            | 7.77             | 3.0               | 0.50            | 11.31      |             |        |
| 253V            | 55°C  | 5745            | 8.03             | 3.0               | 0.50            | 11.57      |             |        |
|                 |       | 5785            | 6.66             | 3.0               | 0.50            | 10.20      |             |        |
|                 |       | 5825            | 7.58             | 3.0               | 0.50            | 11.12      |             |        |
| 207V            | -20°C | 5745            | 7.12             | 3.0               | 0.50            | 10.66      |             |        |
|                 |       | 5785            | 6.89             | 3.0               | 0.50            | 10.43      |             |        |
|                 |       | 5825            | 7.47             | 3.0               | 0.50            | 11.01      |             |        |
| 253V            | -20°C | 5745            | 7.10             | 3.0               | 0.50            | 10.64      |             |        |
|                 |       | 5785            | 7.70             | 3.0               | 0.50            | 11.24      |             |        |
|                 |       | 5825            | 7.29             | 3.0               | 0.50            | 10.83      |             |        |

Remark: 1>. Volt= Voltage, Temp= Temperature

2>. Duty cycle=99%, Antenna Gain=3.0dBi ,Cable loss=0.50dB

3>. EIRP = Read Level + Antenna Gain + Cable Loss + 10 log (1/Duty Cycle)

MIMO:

| 802.11n(HT20)   |       |                 |                  |                   |                 |            |             |        |
|-----------------|-------|-----------------|------------------|-------------------|-----------------|------------|-------------|--------|
| Test conditions |       | Frequency (MHz) | Read Level (dBm) | Antenna Gain(dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
| Volt(AC)        | Temp  |                 |                  |                   |                 |            |             |        |
| 230V            | 25°C  | 5745            | 4.63             | 6.01              | 0.50            | 11.18      | 14          | PASS   |
|                 |       | 5785            | 5.20             | 6.01              | 0.50            | 11.75      |             |        |
|                 |       | 5825            | 4.60             | 6.01              | 0.50            | 11.15      |             |        |
| 207V            | 55°C  | 5745            | 5.04             | 6.01              | 0.50            | 11.59      |             |        |
|                 |       | 5785            | 4.67             | 6.01              | 0.50            | 11.22      |             |        |
|                 |       | 5825            | 5.38             | 6.01              | 0.50            | 11.93      |             |        |
| 253V            | 55°C  | 5745            | 4.97             | 6.01              | 0.50            | 11.52      |             |        |
|                 |       | 5785            | 4.54             | 6.01              | 0.50            | 11.09      |             |        |
|                 |       | 5825            | 4.55             | 6.01              | 0.50            | 11.10      |             |        |
| 207V            | -20°C | 5745            | 4.56             | 6.01              | 0.50            | 11.11      |             |        |
|                 |       | 5785            | 4.87             | 6.01              | 0.50            | 11.42      |             |        |
|                 |       | 5825            | 5.21             | 6.01              | 0.50            | 11.76      |             |        |
| 253V            | -20°C | 5745            | 4.70             | 6.01              | 0.50            | 11.25      |             |        |
|                 |       | 5785            | 4.92             | 6.01              | 0.50            | 11.47      |             |        |
|                 |       | 5825            | 4.64             | 6.01              | 0.50            | 12.19      |             |        |

| 802.11ac(HT20)  |       |                 |                  |                   |                 |            |             |        |
|-----------------|-------|-----------------|------------------|-------------------|-----------------|------------|-------------|--------|
| Test conditions |       | Frequency (MHz) | Read Level (dBm) | Antenna Gain(dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
| Volt(AC)        | Temp  |                 |                  |                   |                 |            |             |        |
| 230V            | 25°C  | 5745            | 4.42             | 6.01              | 0.50            | 10.97      | 14          | PASS   |
|                 |       | 5785            | 4.63             | 6.01              | 0.50            | 11.18      |             |        |
|                 |       | 5825            | 4.22             | 6.01              | 0.50            | 10.77      |             |        |
| 207V            | 55°C  | 5745            | 4.66             | 6.01              | 0.50            | 11.21      |             |        |
|                 |       | 5785            | 4.45             | 6.01              | 0.50            | 11.00      |             |        |
|                 |       | 5825            | 4.66             | 6.01              | 0.50            | 11.21      |             |        |
| 253V            | 55°C  | 5745            | 4.51             | 6.01              | 0.50            | 11.06      |             |        |
|                 |       | 5785            | 4.83             | 6.01              | 0.50            | 11.38      |             |        |
|                 |       | 5825            | 5.19             | 6.01              | 0.50            | 11.74      |             |        |
| 207V            | -20°C | 5745            | 4.79             | 6.01              | 0.50            | 11.34      |             |        |
|                 |       | 5785            | 5.08             | 6.01              | 0.50            | 11.63      |             |        |
|                 |       | 5825            | 5.03             | 6.01              | 0.50            | 11.58      |             |        |
| 253V            | -20°C | 5745            | 4.05             | 6.01              | 0.50            | 10.60      |             |        |
|                 |       | 5785            | 4.97             | 6.01              | 0.50            | 11.52      |             |        |
|                 |       | 5825            | 4.32             | 6.01              | 0.50            | 10.87      |             |        |

Remark: 1>. Volt= Voltage, Temp= Temperature

2>. Duty cycle=99%, Antenna Gain=6.01dBi ,Cable loss=0.50dB

3>. EIRP = Read Level + Antenna Gain + Cable Loss + 10 log (1/Duty Cycle)

| 802.11n(HT40)   |       |                 |                  |                   |                 |            |             |        |
|-----------------|-------|-----------------|------------------|-------------------|-----------------|------------|-------------|--------|
| Test conditions |       | Frequency (MHz) | Read Level (dBm) | Antenna Gain(dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
| Volt(AC)        | Temp  |                 |                  |                   |                 |            |             |        |
| 230V            | 25°C  | 5755            | 4.17             | 6.01              | 0.50            | 10.72      | 14          | PASS   |
|                 |       | 5795            | 4.38             | 6.01              | 0.50            | 10.93      |             |        |
| 207V            | 55°C  | 5755            | 3.91             | 6.01              | 0.50            | 10.46      |             |        |
|                 |       | 5795            | 3.82             | 6.01              | 0.50            | 10.37      |             |        |
| 253V            | 55°C  | 5755            | 3.79             | 6.01              | 0.50            | 10.34      |             |        |
|                 |       | 5795            | 4.09             | 6.01              | 0.50            | 10.64      |             |        |
| 207V            | -20°C | 5755            | 4.28             | 6.01              | 0.50            | 10.83      |             |        |
|                 |       | 5795            | 3.17             | 6.01              | 0.50            | 9.72       |             |        |
| 253V            | -20°C | 5755            | 4.18             | 6.01              | 0.50            | 10.73      |             |        |
|                 |       | 5795            | 3.83             | 6.01              | 0.50            | 10.38      |             |        |

| 802.11ac(HT40)  |       |                 |                  |                   |                 |            |             |        |
|-----------------|-------|-----------------|------------------|-------------------|-----------------|------------|-------------|--------|
| Test conditions |       | Frequency (MHz) | Read Level (dBm) | Antenna Gain(dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
| Volt(AC)        | Temp  |                 |                  |                   |                 |            |             |        |
| 230V            | 25°C  | 5755            | 3.56             | 6.01              | 0.50            | 10.11      | 14          | PASS   |
|                 |       | 5795            | 3.94             | 6.01              | 0.50            | 10.49      |             |        |
| 207V            | 55°C  | 5755            | 3.89             | 6.01              | 0.50            | 10.44      |             |        |
|                 |       | 5795            | 3.93             | 6.01              | 0.50            | 10.48      |             |        |
| 253V            | 55°C  | 5755            | 4.35             | 6.01              | 0.50            | 10.90      |             |        |
|                 |       | 5795            | 3.64             | 6.01              | 0.50            | 10.19      |             |        |
| 207V            | -20°C | 5755            | 4.03             | 6.01              | 0.50            | 10.58      |             |        |
|                 |       | 5795            | 4.39             | 6.01              | 0.50            | 10.94      |             |        |
| 253V            | -20°C | 5755            | 3.45             | 6.01              | 0.50            | 10.00      |             |        |
|                 |       | 5795            | 4.34             | 6.01              | 0.50            | 10.89      |             |        |

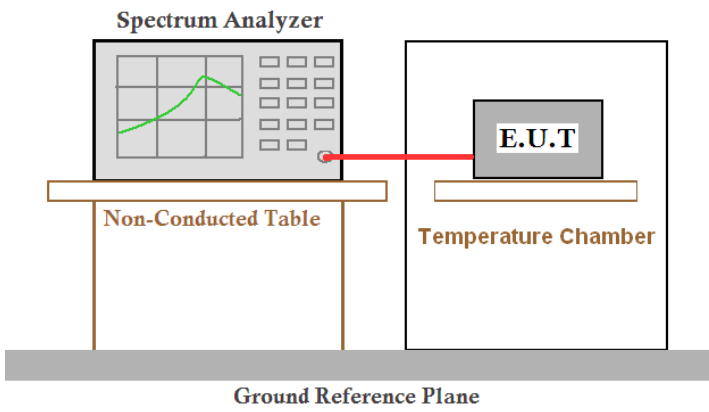
| 802.11ac(HT80)  |       |                 |                  |                   |                 |            |             |        |
|-----------------|-------|-----------------|------------------|-------------------|-----------------|------------|-------------|--------|
| Test conditions |       | Frequency (MHz) | Read Level (dBm) | Antenna Gain(dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
| Volt(AC)        | Temp  |                 |                  |                   |                 |            |             |        |
| 230V            | 25°C  | 5775            | 3.17             | 6.01              | 0.50            | 9.72       | 14          | PASS   |
| 207V            | 55°C  | 5775            | 3.98             | 6.01              | 0.50            | 10.53      |             |        |
| 253V            | 55°C  | 5775            | 3.31             | 6.01              | 0.50            | 9.86       |             |        |
| 207V            | -20°C | 5775            | 3.59             | 6.01              | 0.50            | 10.14      |             |        |
| 253V            | -20°C | 5775            | 3.76             | 6.01              | 0.50            | 10.31      |             |        |

Remark: 1>. Volt= Voltage, Temp= Temperature

2>. Duty cycle=99%, Antenna Gain=6.01dBi ,Cable loss=0.50dB

3>. EIRP = Read Level + Antenna Gain + Cable Loss + 10 log (1/Duty Cycle)

## 7.3.2 Frequency Range

|                            |   |
|----------------------------|---|
| <b>Test Requirement:</b>   | ETSI EN 300 440 clause 4.2.3.1  |
| <b>Test Method:</b>        | ETSI EN 300 440 clause 4.2.3.3  |
| <b>Limit:</b>              | Within the band 5.725GHz to 5.875GHz  |
| <b>Test setup:</b>         |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test) located inside a Temperature Chamber. Both the Spectrum Analyzer and the Temperature Chamber are placed on a Non-Conducted Table. This table is supported by a Ground Reference Plane.</p>   |
| <b>Test procedure:</b>     | <ol style="list-style-type: none"> <li>1&gt;. The output of the transmitter shall be connected to the spectrum analyzer</li> <li>2&gt;. Offset the factor which it include antenna gain, cable loss and duty cycle in the spectrum analyzer;<br/>Remark: the factor=Antenna Gain + Cable Loss + Duty cycle</li> <li>3&gt;. Set the spectrum analyzer as below:<br/>RBW=30kHz, VBW=100 kHz, Detector: Average,<br/>Sweep time= 50Seconds,<br/>Span: Wide enough to capture the complete power envelope, including all sidebands</li> <li>4&gt;. Using the marker of the spectrum analyser, find the lowest frequency below the operating frequency at which the spectral power density drops below the level -30dBm. this frequency shall be recorded as fL.</li> <li>5&gt;. Select the highest operating frequency of the equipment under test, repeated the step 3 to step 4, and receeded the frequency as fH.</li> <li>6&gt;. The difference between the frequencies measured (fH - fL) is the frequency range which shall be recorded.</li> <li>7&gt;. Repeated the test in extreme test conditions.</li> </ol> |
| <b>Test mode:</b>          | Refer to section 7.2 for details  |
| <b>Test Instruments:</b>   | Refer to section 6.0 for details  |
| <b>Measurement Record:</b> | <b>Uncertainty: <math>\pm 1 \times 10^{-7}</math></b>   |

**Measurement Data**

Main antenna:

| 802.11a(HT20)   |           |          |          |  |        |
|-----------------|-----------|----------|----------|--|--------|
| Test conditions |           | fL (MHz) | fH (MHz) | Limit                                      | Result |
| Volt(AC)        | Temp (°C) |          |          |  |        |
| 230V            | 25        | 5737.23  | 5832.53  | fL $\geq$ 5725MHz and<br>fH $\leq$ 5875MHz | Pass   |
| 207V            | -20       | 5735.04  | 5833.18  |  |        |
| 207V            | 55        | 5734.52  | 5835.29  |  |        |
| 253V            | -20       | 5737.11  | 5833.53  |  |        |
| 253V            | 55        | 5735.68  | 5833.96  |  |        |

Aux antenna:

| 802.11a(HT20)   |           |          |          |  |        |
|-----------------|-----------|----------|----------|--|--------|
| Test conditions |           | fL (MHz) | fH (MHz) | Limit                                      | Result |
| Volt(AC)        | Temp (°C) |          |          |  |        |
| 230V            | 25        | 5736.80  | 5832.45  | fL $\geq$ 5725MHz and<br>fH $\leq$ 5875MHz | Pass   |
| 207V            | -20       | 5735.33  | 5833.61  |  |        |
| 207V            | 55        | 5735.31  | 5833.05  |  |        |
| 253V            | -20       | 5736.08  | 5834.58  |  |        |
| 253V            | 55        | 5736.21  | 5834.75  |  |        |

MIMO:

| 802.11n(HT20)   |           |          |          |  |        |
|-----------------|-----------|----------|----------|--|--------|
| Test conditions |           | fL (MHz) | fH (MHz) | Limit                                      | Result |
| Volt(AC)        | Temp (°C) |          |          |  |        |
| 230V            | 25        | 5736.68  | 5834.84  | fL $\geq$ 5725MHz and<br>fH $\leq$ 5875MHz | Pass   |
| 207V            | -20       | 5737.12  | 5832.18  |  |        |
| 207V            | 55        | 5736.79  | 5832.05  |  |        |
| 253V            | -20       | 5737.52  | 5832.47  |  |        |
| 253V            | 55        | 5736.40  | 5833.65  |  |        |

| 802.11ac(HT20)  |           |          |          |  |        |
|-----------------|-----------|----------|----------|--|--------|
| Test conditions |           | fL (MHz) | fH (MHz) | Limit                                      | Result |
| Volt(AC)        | Temp (°C) |          |          |  |        |
| 230V            | 25        | 5736.84  | 5834.13  | fL $\geq$ 5725MHz and<br>fH $\leq$ 5875MHz | Pass   |
| 207V            | -20       | 5735.68  | 5835.00  |  |        |
| 207V            | 55        | 5735.59  | 5833.46  |  |        |
| 253V            | -20       | 5737.02  | 5833.42  |  |        |
| 253V            | 55        | 5737.31  | 5833.30  |  |        |

| 802.11n(HT40)   |           |          |          |  |        |
|-----------------|-----------|----------|----------|--|--------|
| Test conditions |           | fL (MHz) | fH (MHz) | Limit                                      | Result |
| Volt(AC)        | Temp (°C) |          |          |  |        |
| 230V            | 25        | 5735.04  | 5814.44  | fL $\geq$ 5725MHz and<br>fH $\leq$ 5875MHz | Pass   |
| 207V            | -20       | 5735.52  | 5814.40  |  |        |
| 207V            | 55        | 5736.67  | 5813.24  |  |        |
| 253V            | -20       | 5736.41  | 5813.42  |  |        |
| 253V            | 55        | 5735.09  | 5813.42  |  |        |

| 802.11ac(HT40)  |           |          |          |  |        |
|-----------------|-----------|----------|----------|--|--------|
| Test conditions |           | fL (MHz) | fH (MHz) | Limit                                      | Result |
| Volt(AC)        | Temp (°C) |          |          |  |        |
| 230V            | 25        | 5737.48  | 5814.34  | fL $\geq$ 5725MHz and<br>fH $\leq$ 5875MHz | Pass   |
| 207V            | -20       | 5737.27  | 5815.55  |  |        |
| 207V            | 55        | 5737.24  | 5813.22  |  |        |
| 253V            | -20       | 5736.90  | 5815.01  |  |        |
| 253V            | 55        | 5736.54  | 5814.12  |  |        |

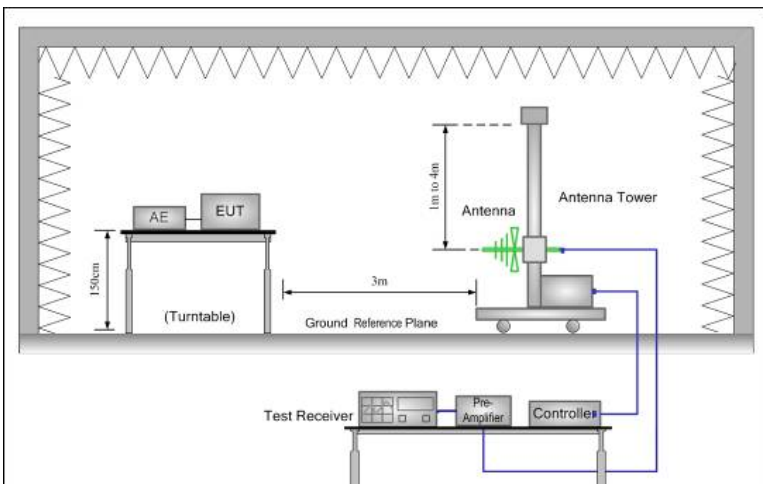
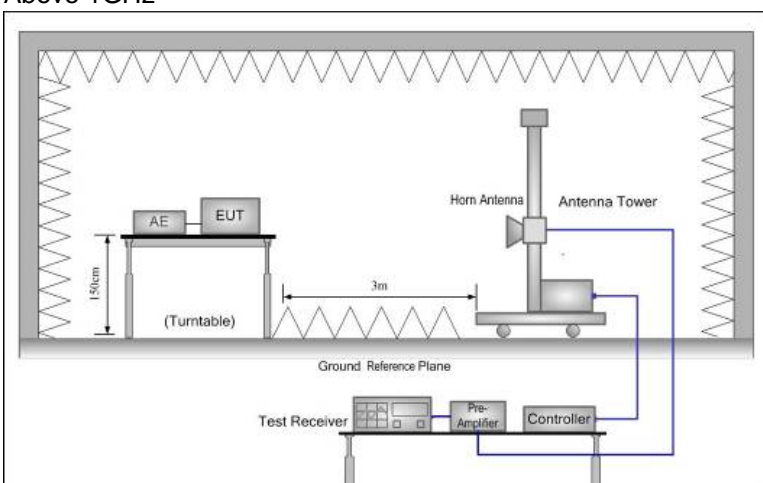
| 802.11ac(HT80)  |           |          |          |  |        |
|-----------------|-----------|----------|----------|--|--------|
| Test conditions |           | fL (MHz) | fH (MHz) | Limit                                      | Result |
| Volt(DC)        | Temp (°C) |          |          |  |        |
| 3.7V            | 25        | 5737.55  | 5815.60  | fL $\geq$ 5725MHz and<br>fH $\leq$ 5875MHz | Pass   |
| 3.6V            | -20       | 5735.39  | 5813.87  |  |        |
| 3.6V            | 55        | 5735.04  | 5814.08  |  |        |
| 4.2V            | -20       | 5735.35  | 5814.54  |  |        |
| 4.2V            | 55        | 5737.09  | 5815.77  |  |        |

### 7.3.3 Duty Cycle

No Restriction



## 7.3.4 Transmitter Spurious emissions

|                          |  |             |
|--------------------------|--|-------------|
| <b>Test Requirement:</b> | ETSI EN 300 440 clause 4.2.4.1   |             |
| <b>Test Method:</b>      | ETSI EN 300 440 clause 4.2.4.3   |             |
| <b>Receiver setup:</b>   | Frequency<1000MHz; RBW=100KHz, VBW=300KHz, Detector= peak<br>Frequency>=1000MHz; RBW=1MHz, VBW=3MHz, Detector=peak.  |             |
| <b>Limit:</b>            | Frequency  | Limit (dBm) |
|                          | 47 MHz to 74 MHz<br>87.5 MHz to 108 MHz<br>174 MHz to 230 MHz<br>470 MHz to 862 MHz  | -54         |
|                          | Other frequencies ≤ 1 000 MHz  | -36         |
|                          | Frequencies > 1 000 MHz  | -30         |
|                          | <b>Test Frequency range:</b>   |             |
| <b>Test setup:</b>       | <b>Below 1GHz</b>  |             |
|                          |   |             |
| <b>Test setup:</b>       | <b>Above 1GHz</b>  |             |
|                          |    |             |
| <b>Test procedure:</b>   | <p>Substitution method was performed to determine the actual ERP emission levels of the EUT.</p> <p>The following test procedure as below:</p> <p>1&gt;.Below 1GHz test procedure:</p> |             |

|                            |   |
|----------------------------|---|
|                            | <ol style="list-style-type: none"> <li>1. On the test site as test setup graph above, the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider.</li> <li>2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter. The output of the test antenna shall be connected to the measuring receiver.</li> <li>3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.</li> <li>4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.</li> <li>5. Repeat step 4 for test frequency with the test antenna polarized horizontally.</li> <li>6. Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter. At the lower frequencies, where the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground.</li> <li>7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.</li> <li>8. Repeat step 7 with both antennas horizontally polarized for each test frequency.</li> <li>9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:<br/> <math display="block">\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dB)}</math>                     where:<br/>                     Pg is the generator output power into the substitution antenna.</li> </ol> <p>2&gt;.Above 1GHz test procedure:<br/>                     Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber, and the test antenna do not need to raise from 1 to 4m, just test in 1.5m height.</p> |
| <b>Test mode:</b>          | Refer to section 7.2 for details  |
| <b>Test Instruments:</b>   | Refer to section 6.0 for details  |
| <b>Measurement Record:</b> | <b>Uncertainty: ± 6dB</b>   |

**Measurement Data**

Remark: All of the mode were tested, only the worst data shows below:

MIMO:

| 802.11ac(HT20)         |                   |            |             |             |
|------------------------|-------------------|------------|-------------|-------------|
| Frequency (MHz)        | Spurious Emission |            | Limit (dBm) | Test Result |
|                        | polarization      | Level(dBm) |             |             |
| <b>Lowest Channel</b>  |                   |            |             |             |
| 213.29                 | Vertical          | -65.31     | -54         | Pass        |
| 395.15                 | V                 | -67.39     | -36         |             |
| 11489.76               | V                 | -58.78     | -30         |             |
| 17234.25               | V                 | -59.46     | -30         |             |
| 154.46                 | Horizontal        | -67.44     | -54         |             |
| 973.67                 | H                 | -67.34     | -36         |             |
| 11489.68               | H                 | -59.72     | -30         |             |
| 17234.42               | H                 | -53.87     | -30         |             |
| <b>Middle Channel</b>  |                   |            |             |             |
| 249.73                 | Vertical          | -65.90     | -36         | Pass        |
| 819.96                 | V                 | -67.46     | -54         |             |
| 11569.47               | V                 | -58.96     | -30         |             |
| 17354.22               | V                 | -59.35     | -30         |             |
| 72.00                  | Horizontal        | -65.85     | -54         |             |
| 194.37                 | H                 | -66.74     | -54         |             |
| 11569.65               | H                 | -59.48     | -30         |             |
| 17354.92               | H                 | -53.12     | -30         |             |
| <b>Highest Channel</b> |                   |            |             |             |
| 103.86                 | Vertical          | -65.92     | -54         | Pass        |
| 568.06                 | V                 | -66.61     | -54         |             |
| 11649.31               | V                 | -58.54     | -30         |             |
| 17474.88               | V                 | -59.80     | -30         |             |
| 82.65                  | Horizontal        | -66.70     | -36         |             |
| 141.59                 | H                 | -66.88     | -36         |             |
| 11649.72               | H                 | -59.20     | -30         |             |
| 17474.66               | H                 | -52.60     | -30         |             |

| 802.11ac(HT40)         |                   |            |             |             |
|------------------------|-------------------|------------|-------------|-------------|
| Frequency (MHz)        | Spurious Emission |            | Limit (dBm) | Test Result |
|                        | polarization      | Level(dBm) |             |             |
| <b>Lowest Channel</b>  |                   |            |             |             |
| 211.36                 | Vertical          | -65.22     | -54         | Pass        |
| 352.29                 | V                 | -67.04     | -36         |             |
| 11490.00               | V                 | -59.42     | -30         |             |
| 17235.00               | V                 | -59.48     | -30         |             |
| 148.83                 | Horizontal        | -67.04     | -54         |             |
| 952.14                 | H                 | -66.01     | -36         |             |
| 11490.00               | H                 | -60.61     | -30         |             |
| 17235.00               | H                 | -53.20     | -30         |             |
| <b>Highest Channel</b> |                   |            |             |             |
| 93.75                  | Vertical          | -65.80     | -54         | Pass        |
| 494.61                 | V                 | -68.95     | -54         |             |
| 11650.00               | V                 | -58.22     | -30         |             |
| 17475.00               | V                 | -60.00     | -30         |             |
| 83.11                  | Horizontal        | -66.43     | -36         |             |
| 151.12                 | H                 | -67.09     | -36         |             |
| 11650.00               | H                 | -60.54     | -30         |             |
| 17475.00               | H                 | -52.89     | -30         |             |

| 802.11ac(HT80)        |                   |            |             |             |
|-----------------------|-------------------|------------|-------------|-------------|
| Frequency (MHz)       | Spurious Emission |            | Limit (dBm) | Test Result |
|                       | polarization      | Level(dBm) |             |             |
| <b>Middle Channel</b> |                   |            |             |             |
| 83.97                 | Vertical          | -65.01     | -36         | Pass        |
| 186.53                | V                 | -68.45     | -54         |             |
| 11550.00              | V                 | -45.23     | -30         |             |
| 17325.00              | V                 | -46.34     | -30         |             |
| 45.00                 | Horizontal        | -66.41     | -36         |             |
| 492.09                | H                 | -66.09     | -54         |             |
| 11550.00              | H                 | -46.42     | -30         |             |
| 17325.00              | H                 | -47.57     | -30         |             |

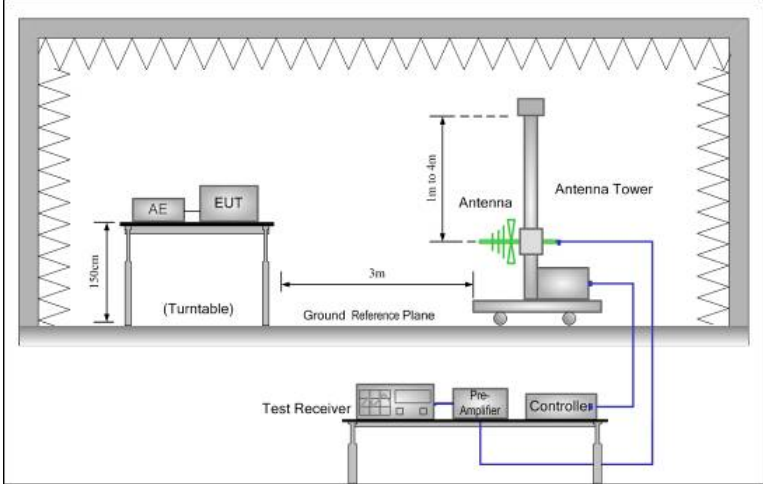
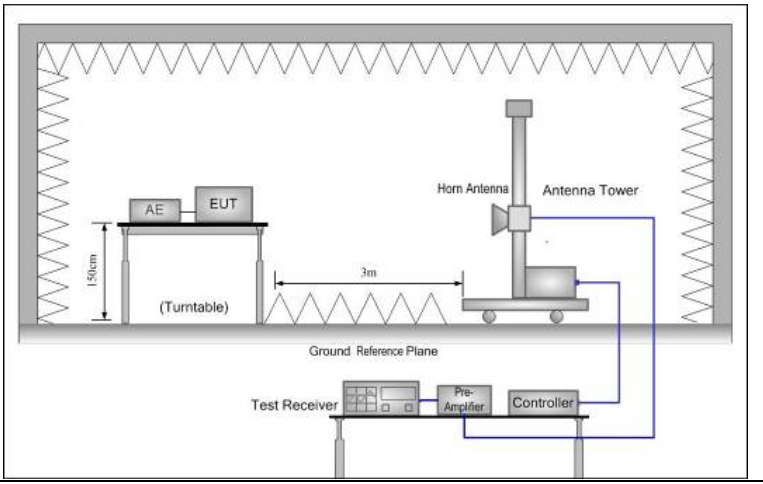
## 7.4 Receiver Requirements

Receiver Classification, Table 5 of EN 300 440.

| Rx Class | Relevant Rx Clauses    | Risk assessment of Rx performance   |
|----------|------------------------|---|
| 1        | 4.3.3, 4.3.4 and 4.3.5 | Highly reliable SRD communication media; e.g. serving human life inherent systems (may result in a physical risk to a person).      |
| 2        | 4.3.4 and 4.3.5        | Medium reliable SRD communication media e.g. causing Inconvenience to persons, which cannot simply be overcome by other means.      |
| 3        | 4.3.5                  | Standard reliable SRD communication media e.g. Inconvenience to persons, which can simply be overcome by other means (e.g. manual). |

The EUT (Rx part) belong to Class 3.

## 7.4.1 Receiver Spurious emissions

|                              |  |              |
|------------------------------|--|--------------|
| <b>Test Requirement:</b>     | ETSI EN 300 440 Clause 4.3.5.1   |              |
| <b>Test Method:</b>          | ETSI EN 300 440 Clause 4.3.5.3   |              |
| <b>Receiver setup:</b>       | Frequency<1000MHz; RBW=100KHz, VBW=300KHz, Detector= peak<br>Frequency>=1000MHz; RBW=1MHz, VBW=3MHz, Detector=peak.  |              |
| <b>Limit:</b>                | Frequency  | Limit        |
|                              | 30MHz to 1000 MHz  | 2nW(-57dBm)  |
|                              | Above 1GHz   | 20nW(-47dBm) |
| <b>Test Frequency range:</b> | 25MHz to 40GHz   |              |
| <b>Test setup:</b>           | <p><b>Below 1GHz</b></p>    |              |
|                              | <p><b>Above 1GHz</b></p>   |              |
| <b>Test procedure:</b>       | <p>Substitution method was performed to determine the actual ERP emission levels of the EUT.</p> <p>The following test procedure as below:</p> <p>1&gt;.Below 1GHz test procedure:</p> <ol style="list-style-type: none"> <li>1. On the test site as test setup graph above, the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider.</li> <li>2. The test antenna shall be oriented initially for vertical polarization and</li> </ol> |              |

|                            |  |
|----------------------------|--|
|                            | <p>shall be chosen to correspond to the frequency of the transmitter. The output of the test antenna shall be connected to the measuring receiver.</p> <ol style="list-style-type: none"> <li>3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.</li> <li>4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.</li> <li>5. Repeat step 4 for test frequency with the test antenna polarized horizontally.</li> <li>6. Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter. At the lower frequencies, where the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground.</li> <li>7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.</li> <li>8. Repeat step 7 with both antennas horizontally polarized for each test frequency.</li> <li>9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:<br/> <math display="block">ERP(dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dB)}</math>                     where:<br/>                     Pg is the generator output power into the substitution antenna.                 </li> </ol> <p>2&gt;.Above 1GHz test procedure:<br/>                     Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber, and the test antenna do not need to raise from 1 to 4m, just test in 1.5m height.</p> |
| <b>Test mode:</b>          | <b>Kept Rx in receive mode.</b>  |
| <b>Test Instruments:</b>   | Refer to section 6.0 for details   |
| <b>Measurement Record:</b> | <b>Uncertainty: ± 6dB</b>  |



## Measurement Data

Remark: All of the mode were tested, only the worst data shows below

MIMO:

| 802.11ac(HT20)         |                   |            |   |             |
|------------------------|-------------------|------------|---|-------------|
| Frequency (MHz)        | Spurious Emission |            | Limit (dBm)   | Test Result |
|                        | polarization      | Level(dBm) |   |             |
| <b>Lowest Channel</b>  |                   |            |   |             |
| 187.87                 | Vertical          | -75.32     | 2nW/ -57dBm<br>below 1GHz,<br><br>20nW/ -47dBm<br>above 1GHz. | Pass        |
| 287.14                 | V                 | -69.33     |   |             |
| 11490.00               | V                 | -58.02     |   |             |
| 17235.00               | V                 | -50.13     |   |             |
| 152.64                 | Horizontal        | -72.01     |   |             |
| 900.46                 | H                 | -69.24     |   |             |
| 11490.00               | H                 | -54.69     |   |             |
| 17235.00               | H                 | -56.08     |   |             |
| <b>Middle Channel</b>  |                   |            |   |             |
| 150.25                 | Vertical          | -71.51     | 2nW/ -57dBm<br>below 1GHz,<br><br>20nW/ -47dBm<br>above 1GHz. | Pass        |
| 683.03                 | V                 | -69.26     |   |             |
| 11570.00               | V                 | -56.96     |   |             |
| 17355.00               | V                 | -55.04     |   |             |
| 251.39                 | Horizontal        | -72.46     |   |             |
| 774.58                 | H                 | -68.08     |   |             |
| 11570.00               | H                 | -53.31     |   |             |
| 17355.00               | H                 | -56.02     |   |             |
| <b>Highest Channel</b> |                   |            |   |             |
| 103.09                 | Vertical          | -74.11     | 2nW/ -57dBm<br>below 1GHz,<br><br>20nW/ -47dBm<br>above 1GHz. | Pass        |
| 444.69                 | V                 | -68.94     |   |             |
| 11650.00               | V                 | -57.96     |   |             |
| 17475.00               | V                 | -54.54     |   |             |
| 132.56                 | Horizontal        | -71.11     |   |             |
| 576.68                 | H                 | -67.19     |   |             |
| 11650.00               | H                 | -53.03     |   |             |
| 17475.00               | H                 | -53.59     |   |             |

| 802.11ac(HT40)         |                   |            |   |             |
|------------------------|-------------------|------------|---|-------------|
| Frequency (MHz)        | Spurious Emission |            | Limit (dBm)   | Test Result |
|                        | polarization      | Level(dBm) |   |             |
| <b>Lowest Channel</b>  |                   |            |   |             |
| 99.28                  | Vertical          | -75.78     | 2nW/ -57dBm<br>below 1GHz,<br><br>20nW/ -47dBm<br>above 1GHz. | Pass        |
| 521.17                 | V                 | -69.88     |   |             |
| 11510.00               | V                 | -58.27     |   |             |
| 17265.00               | V                 | -54.01     |   |             |
| 169.92                 | Horizontal        | -76.19     |   |             |
| 831.45                 | H                 | -70.27     |   |             |
| 11510.00               | H                 | -54.81     |   |             |
| 17265.00               | H                 | -59.03     |   |             |
| <b>Highest Channel</b> |                   |            |   |             |
| 103.09                 | Vertical          | -74.59     | 2nW/ -57dBm<br>below 1GHz,<br><br>20nW/ -47dBm<br>above 1GHz. | Pass        |
| 444.69                 | V                 | -69.53     |   |             |
| 11590.00               | V                 | -61.42     |   |             |
| 17385.00               | V                 | -56.75     |   |             |
| 132.56                 | Horizontal        | -74.77     |   |             |
| 576.68                 | H                 | -73.54     |   |             |
| 11590.00               | H                 | -54.02     |   |             |
| 17385.00               | H                 | -56.40     |   |             |

| 802.11ac(HT80)        |                   |            |   |             |
|-----------------------|-------------------|------------|---|-------------|
| Frequency (MHz)       | Spurious Emission |            | Limit (dBm)   | Test Result |
|                       | polarization      | Level(dBm) |   |             |
| <b>Middle Channel</b> |                   |            |   |             |
| 387.65                | Vertical          | -64.07     | 2nW/ -57dBm<br>below 1GHz,<br><br>20nW/ -47dBm<br>above 1GHz. | Pass        |
| 673.61                | V                 | -66.39     |   |             |
| 11550.00              | V                 | -56.74     |   |             |
| 17325.00              | V                 | -59.28     |   |             |
| 95.25                 | Horizontal        | -65.65     |   |             |
| 864.24                | H                 | -66.40     |   |             |
| 11550.00              | H                 | -59.30     |   |             |
| 17325.00              | H                 | -55.85     |   |             |

## **7.5 Additional Requirements**

Not applicable, since not FHSS

## **7.6 Adjacent Channel Selectivity**

Not applicable, since the test applied to class 1 receivers only. Please refer to clause 4.3.3 of EN 300 440.

## **7.7 Blocking or Desensitization**

Not applicable, since the test applied to class 1 and class 2 receivers only. Please refer to clause 4.3.4 of EN 300 440

## 8 Test Setup Photo



## 9 EUT Constructional Details

Reference to the test report No.: GTS201705000233E01

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