



# FCC RF Test Report

**APPLICANT** : SHARP CORPORATION, IoT Communication BU  
**EQUIPMENT** : Smart Phone  
**FCC ID** : APYHRO00246  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Aug. 23, 2016 and testing was completed on Nov. 18, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

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Reviewed by: Joseph Lin / Supervisor

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Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

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FCC ID : APYHRO00246

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Report Issued Date : Dec. 29, 2016

Report Version : Rev. 01

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## TABLE OF CONTENTS

|                                                               |           |
|---------------------------------------------------------------|-----------|
| <b>REVISION HISTORY .....</b>                                 | <b>3</b>  |
| <b>SUMMARY OF TEST RESULT .....</b>                           | <b>4</b>  |
| <b>1 GENERAL DESCRIPTION .....</b>                            | <b>5</b>  |
| 1.1 Applicant .....                                           | 5         |
| 1.2 Manufacturer .....                                        | 5         |
| 1.3 Product Feature of Equipment Under Test .....             | 5         |
| 1.4 Product Specification of Equipment Under Test .....       | 5         |
| 1.5 Modification of EUT .....                                 | 5         |
| 1.6 Testing Location .....                                    | 6         |
| 1.7 Applicable Standards .....                                | 6         |
| <b>2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST .....</b>     | <b>7</b>  |
| 2.1 Carrier Frequency and Channel .....                       | 7         |
| 2.2 Test Mode .....                                           | 7         |
| 2.3 Connection Diagram of Test System .....                   | 8         |
| 2.4 Support Unit used in test configuration and system .....  | 8         |
| 2.5 EUT Operation Test Setup .....                            | 8         |
| 2.6 Measurement Results Explanation Example .....             | 9         |
| <b>3 TEST RESULT .....</b>                                    | <b>10</b> |
| 3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement ..... | 10        |
| 3.2 Maximum Conducted Output Power Measurement .....          | 13        |
| 3.3 Power Spectral Density Measurement .....                  | 14        |
| 3.4 Unwanted Emissions Measurement .....                      | 17        |
| 3.5 AC Conducted Emission Measurement .....                   | 22        |
| 3.6 Frequency Stability Measurement .....                     | 26        |
| 3.7 Automatically Discontinue Transmission .....              | 27        |
| 3.8 Antenna Requirements .....                                | 28        |
| <b>4 LIST OF MEASURING EQUIPMENT .....</b>                    | <b>29</b> |
| <b>5 UNCERTAINTY OF EVALUATION .....</b>                      | <b>30</b> |
| <b>APPENDIX A. CONDUCTED TEST RESULTS</b>                     |           |
| <b>APPENDIX B. RADIATED SPURIOUS EMISSION</b>                 |           |
| <b>APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS</b>           |           |
| <b>APPENDIX D. DUTY CYCLE PLOTS</b>                           |           |
| <b>APPENDIX E. SETUP PHOTOGRAPHS</b>                          |           |



## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FR682304E  | Rev. 01 | Initial issue of report | Dec. 29, 2016 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule           | Description                            | Limit                       | Result | Remark                                  |
|----------------|--------------------|----------------------------------------|-----------------------------|--------|-----------------------------------------|
| 3.1            | 15.403(i)          | 6dB, 26dB and 99% Occupied Bandwidth   | > 500kHz                    | Pass   | -                                       |
| 3.2            | 15.407(a)          | Maximum Conducted Output Power         | ≤ 30 dBm                    | Pass   | -                                       |
| 3.3            | 15.407(a)          | Power Spectral Density                 | ≤ 30 dBm/500kHz             | Pass   | -                                       |
| 3.4            | 15.407(b)          | Unwanted Emissions                     | 15.407(b)(4)(i) & 15.209(a) | Pass   | Under limit<br>5.53 dB at<br>42.610 MHz |
| 3.5            | 15.207             | AC Conducted Emission                  | 15.207(a)                   | Pass   | Under limit<br>14.40 dB at<br>0.558 MHz |
| 3.6            | 15.407(g)          | Frequency Stability                    | Within Operation Band       | Pass   | -                                       |
| 3.7            | 15.407(c)          | Automatically Discontinue Transmission | Discontinue Transmission    | Pass   | -                                       |
| 3.8            | 15.203 & 15.407(a) | Antenna Requirement                    | N/A                         | Pass   | -                                       |

# 1 General Description

## 1.1 Applicant

**SHARP CORPORATION, IoT Communication BU**

2-13-1, Hachihonmatsu-Iida, Higashi-hiroshima-shi, Hiroshima pref. 739-0192, Japan

## 1.2 Manufacturer

**FIH Co., LTD.**

No. 4, Minsheng St., Tucheng Dist., New Taipei City 23679, Taiwan (R.O.C.)

## 1.3 Product Feature of Equipment Under Test

| Product Feature                        |                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Equipment</b>                       | Smart Phone                                                                                 |
| <b>FCC ID</b>                          | APYHRO00246                                                                                 |
| <b>EUT supports Radios application</b> | GSM/GPRS/WCDMA/HSPA/LTE<br>WLAN 11b/g/n HT20<br>WLAN 11a/n HT20/HT40<br>Bluetooth BR/EDR/LE |
| <b>HW Version</b>                      | DVT                                                                                         |
| <b>SW Version</b>                      | 000C_1_050                                                                                  |
| <b>EUT Stage</b>                       | Identical Prototype                                                                         |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                              |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Tx/Rx Channel Frequency Range</b>    | 5745 MHz ~ 5825 MHz                                                                                          |
| <b>Maximum Output Power</b>             | 802.11a : 13.82 dBm / 0.0241 W<br>802.11n HT20 : 13.77 dBm / 0.0238 W<br>802.11n HT40 : 13.75 dBm / 0.0237 W |
| <b>99% Occupied Bandwidth</b>           | 802.11a : 18.73 MHz<br>802.11n HT20 : 19.43 MHz<br>802.11n HT40 : 37.06 MHz                                  |
| <b>Type of Modulation</b>               | OFDM (BPSK / QPSK / 16QAM / 64QAM)                                                                           |
| <b>Antenna Type / Gain</b>              | PIFA Antenna with gain -0.17 dBi                                                                             |

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                           |                                                                                                                                                                  |  |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.                                                                                                                                       |  |
| <b>Test Site Location</b> | No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |  |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                          |  |
|                           | CO05-HY                                                                                                                                                          |  |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

|                           |                                                                                                                                      |           |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL (SHENZHEN) INC.                                                                                                |           |
| <b>Test Site Location</b> | No. 101, Complex Building C, Guanlong Village, Xili Town,<br>Nanshan District, Shenzhen, Guangdong, P.R.C.<br>TEL: +86-755-8637-9589 |           |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                              |           |
|                           | TH01-SZ                                                                                                                              | 03CH03-SZ |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

## 1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03
- ANSI C63.10-2013

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

### 2.1 Carrier Frequency and Channel

| Frequency Band                       | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|--------------------------------------|---------|-------------|---------|-------------|
| 5725-5850 MHz<br>Band 4<br>(U-NII-3) | 149     | 5745        | 157     | 5785        |
|                                      | 151*    | 5755        | 159*    | 5795        |
|                                      | 153     | 5765        | 161     | 5805        |
|                                      | 155     | 5775        | 165     | 5825        |

**Note:** The above Frequency and Channel in "\*" were 802.11n HT40.

### 2.2 Test Mode

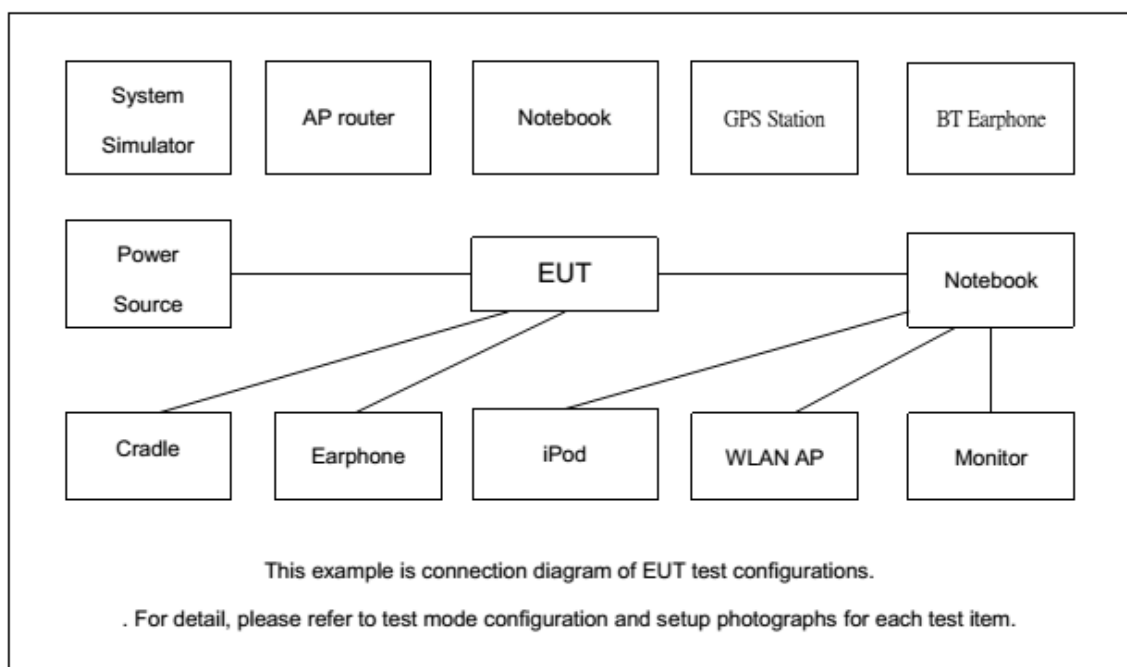
Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

| Modulation   | Data Rate |
|--------------|-----------|
| 802.11a      | 6 Mbps    |
| 802.11n HT20 | MCS0      |
| 802.11n HT40 | MCS0      |

|                              |                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>AC Conducted Emission</b> | Mode 1 : GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Earphone + Camera (Front) + USB Cable (Charging from Adapter) |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|

| Ch. # |        | Band IV : 5725-5850 MHz |              |              |
|-------|--------|-------------------------|--------------|--------------|
|       |        | 802.11a                 | 802.11n HT20 | 802.11n HT40 |
| L     | Low    | 149                     | 149          | 151          |
| M     | Middle | 157                     | 157          | -            |
| H     | High   | 165                     | 165          | 159          |

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

| Item | Equipment          | Trade Name       | Model Name                | FCC ID                                       | Data Cable        | Power Cord                                                 |
|------|--------------------|------------------|---------------------------|----------------------------------------------|-------------------|------------------------------------------------------------|
| 1.   | System Simulator   | Anritsu          | MT8820C                   | N/A                                          | N/A               | Unshielded, 1.8 m                                          |
| 2.   | WLAN AP            | D-Link           | DIR-628                   | KA2DIR628A2                                  | N/A               | Unshielded, 1.8 m                                          |
| 3.   | Notebook           | DELL             | Latitude E6320            | FCC DoC/<br>Contains FCC ID:<br>QDS-BRCM1054 | N/A               | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 4.   | Bluetooth Earphone | Sony<br>Ericsson | MW600                     | PY7DDA-2029                                  | N/A               | N/A                                                        |
| 5.   | iPod Earphone      | Apple            | N/A                       | Verification                                 | Unshielded, 1.0 m | N/A                                                        |
| 6.   | Adapter            | SHARP            | DSA-10PFL-05<br>FEU050200 | NA                                           | NA                | NA                                                         |
| 7.   | USB Cable          | SHARP            | CUBB01M-FA002-DH          | NA                                           | Shielded 1.0m     | NA                                                         |
| 8.   | SD Card            | SanDisk          | MicroSD HC                | FCC DoC                                      | N/A               | N/A                                                        |

## 2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, "QPST" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.



## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

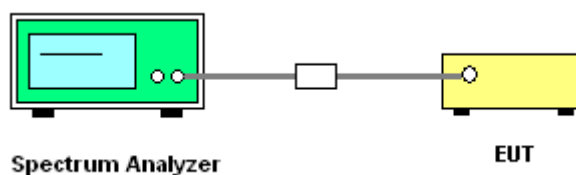
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.  
Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

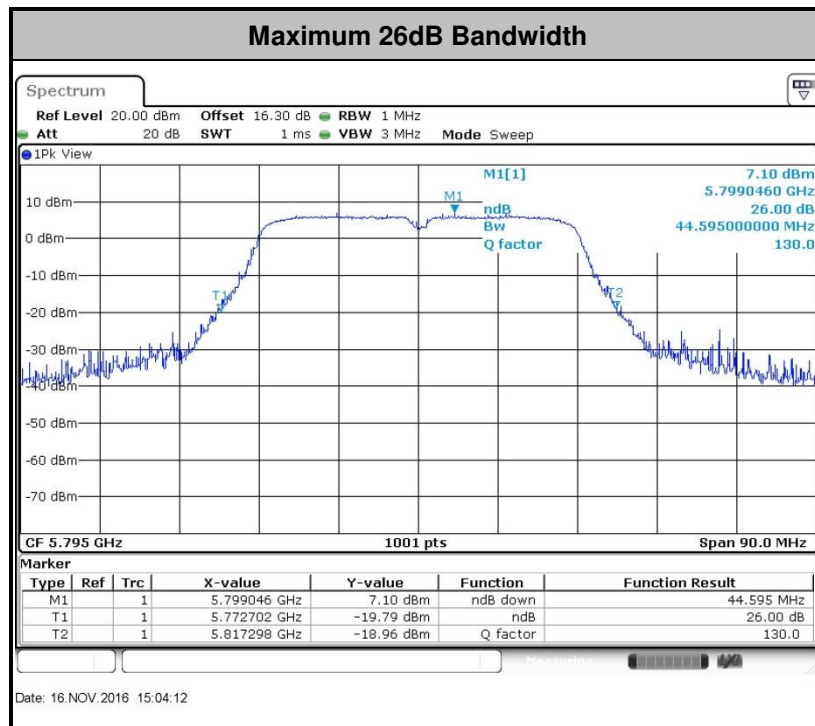
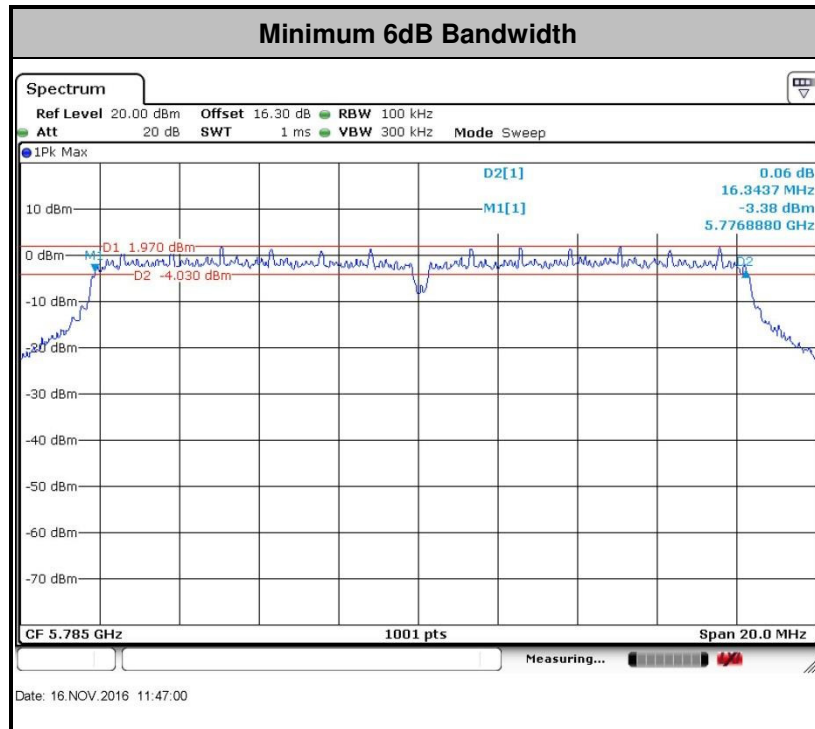
##### 3.1.4 Test Setup

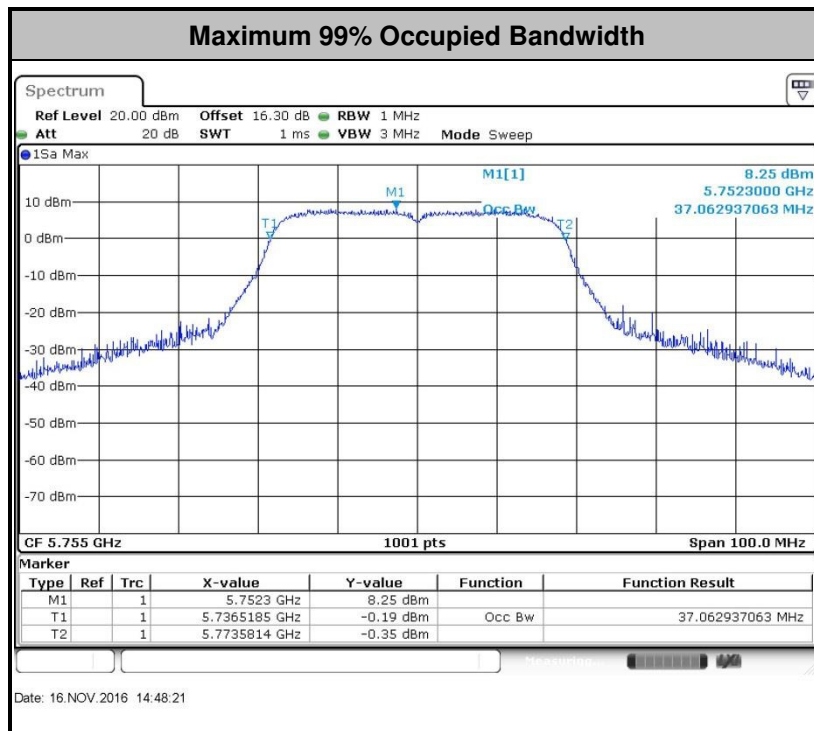




### 3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.





**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

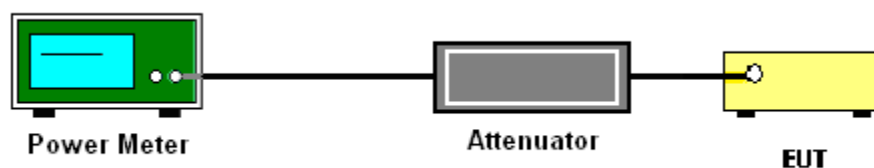
### 3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where  $x$  is the duty cycle.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### **3.3 Power Spectral Density Measurement**

#### **3.3.1 Limit of Power Spectral Density**

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **3.3.2 Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

#### **3.3.3 Test Procedures**

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.  
Section F) Maximum power spectral density.

##### **# Method SA-2 #**

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

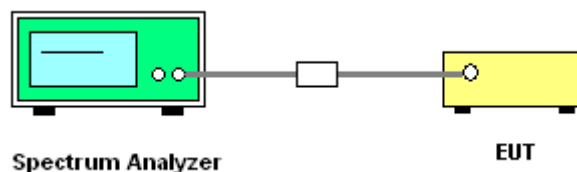
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW  $\geq$  1 MHz.
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add  $10 \log(500\text{kHz}/\text{RBW})$  to the test result.
- Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add  $10 \log(N_{\text{ANT}})$  dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity  $10 \log(N_{\text{ANT}})$  dB is added to each spectrum value before comparing to the emission limit. The addition of  $10 \log(N_{\text{ANT}})$  dB serves to apportion the emission limit among the  $N_{\text{ANT}}$  outputs so that each output is permitted to contribute no more than  $1/N_{\text{ANT}}^{\text{th}}$  of the PSD limit.

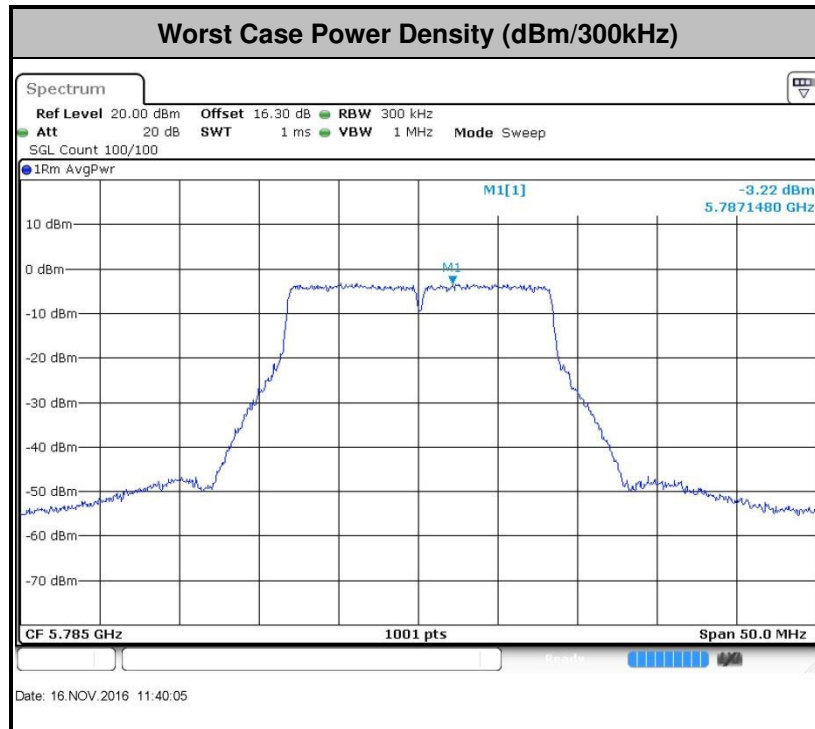
### 3.3.4 Test Setup





### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



### 3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

#### 3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:  
15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490      | 2400/F(kHz)                          | 300                              |
| 0.490 – 1.705      | 24000/F(kHz)                         | 30                               |
| 1.705 – 30.0       | 30                                   | 30                               |
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

**Note:** The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \quad \mu\text{V/m, where P is the eirp (Watts)}$$

| EIRP (dBm) | Field Strength at 3m (dB $\mu$ V/m) |
|------------|-------------------------------------|
| -17        | 78.3                                |
| - 27       | 68.3                                |

- (3) KDB 789033 D02 General UNII Test Procedures New Rules v01r03 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

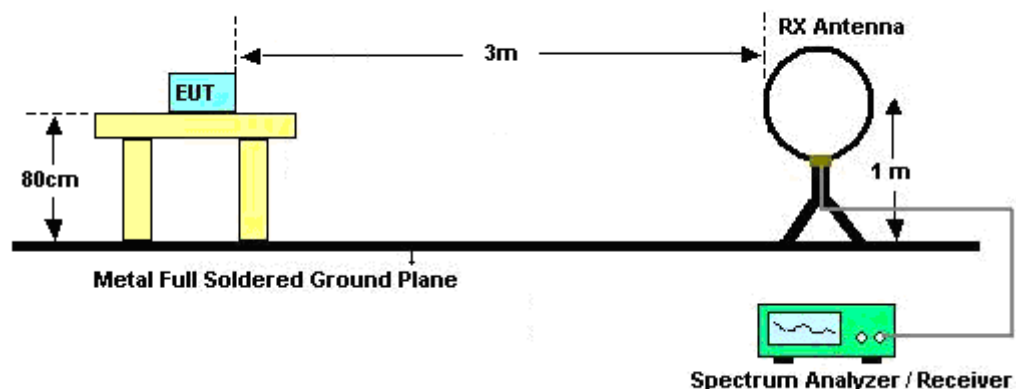
### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, 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.

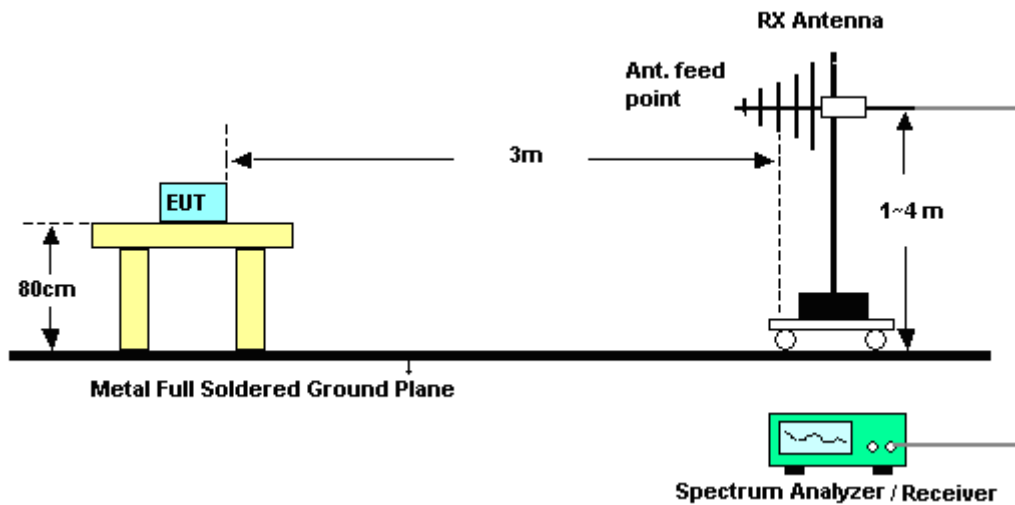
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

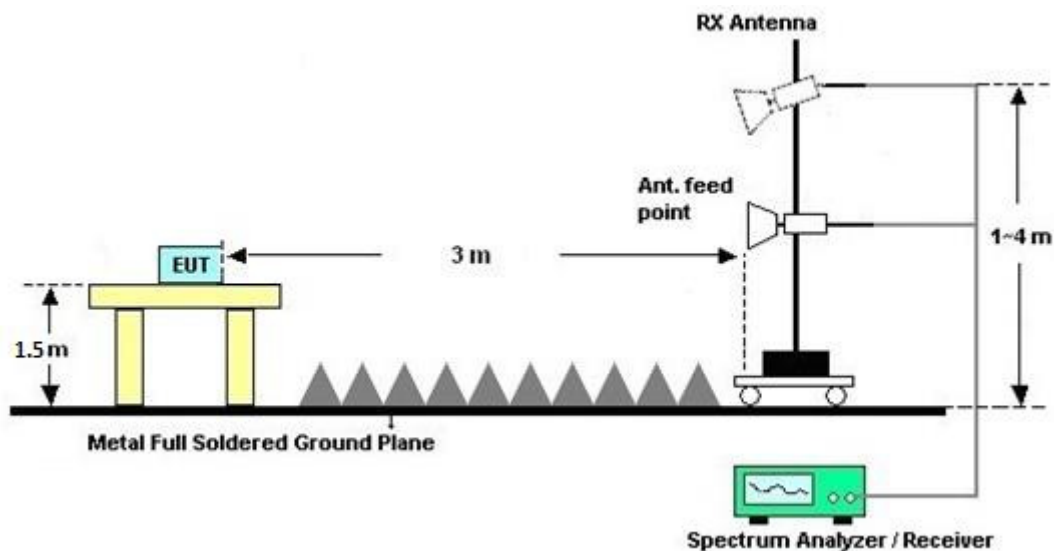
**For radiated emissions below 30MHz**



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



### 3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

### 3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.



### **3.4.7 Duty Cycle**

Please refer to Appendix D.

### **3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)**

Please refer to Appendix B and C.

## 3.5 AC Conducted Emission Measurement

### 3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission (MHz) | Conducted limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | Quasi-peak                   | Average   |
| 0.15-0.5                    | 66 to 56*                    | 56 to 46* |
| 0.5-5                       | 56                           | 46        |
| 5-30                        | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

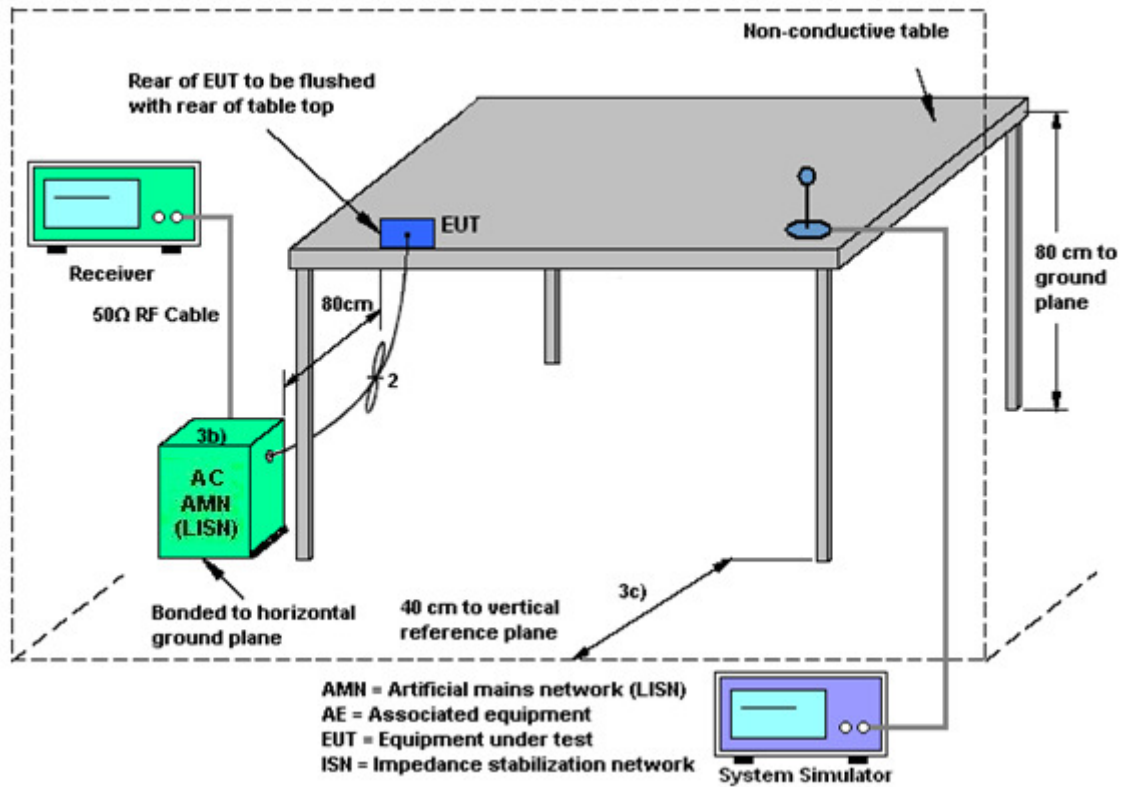
### 3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.5.3 Test Procedures

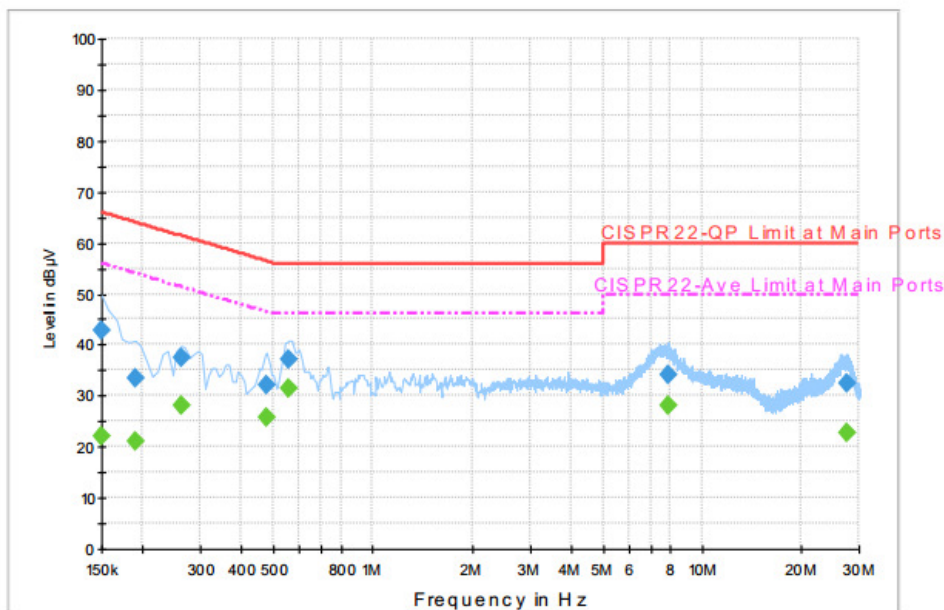
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

|                        |                                                                                                                  |                            |        |
|------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------|--------|
| <b>Test Mode :</b>     | Mode 1                                                                                                           | <b>Temperature :</b>       | 21~23℃ |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                     | <b>Relative Humidity :</b> | 51~53% |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                    | <b>Phase :</b>             | Line   |
| <b>Function Type :</b> | GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Earphone + Camera (Front) + USB Cable (Charging from Adapter) |                            |        |



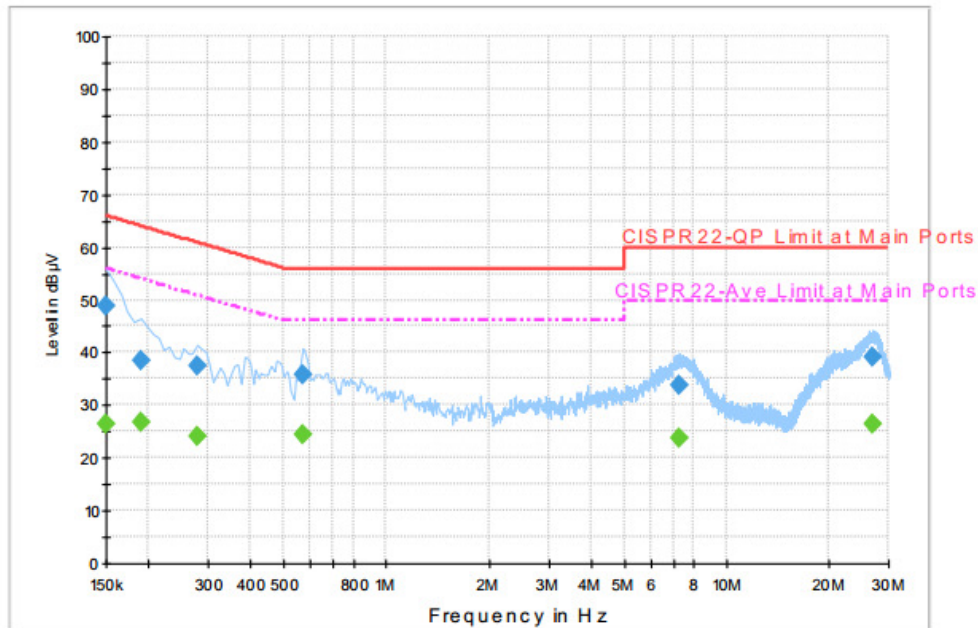
#### Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 42.7             | Off    | L1   | 19.6       | 23.3        | 66.0         |
| 0.190000        | 33.5             | Off    | L1   | 19.6       | 30.5        | 64.0         |
| 0.262000        | 37.5             | Off    | L1   | 19.6       | 23.9        | 61.4         |
| 0.478000        | 32.2             | Off    | L1   | 19.6       | 24.2        | 56.4         |
| 0.558000        | 37.1             | Off    | L1   | 19.6       | 18.9        | 56.0         |
| 7.862000        | 34.3             | Off    | L1   | 20.0       | 25.7        | 60.0         |
| 27.550000       | 32.4             | Off    | L1   | 21.0       | 27.6        | 60.0         |

#### Final Result : Average

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 22.1           | Off    | L1   | 19.6       | 33.9        | 56.0         |
| 0.190000        | 21.2           | Off    | L1   | 19.6       | 32.8        | 54.0         |
| 0.262000        | 28.0           | Off    | L1   | 19.6       | 23.4        | 51.4         |
| 0.478000        | 25.6           | Off    | L1   | 19.6       | 20.8        | 46.4         |
| 0.558000        | 31.6           | Off    | L1   | 19.6       | 14.4        | 46.0         |
| 7.862000        | 27.9           | Off    | L1   | 20.0       | 22.1        | 50.0         |
| 27.550000       | 22.7           | Off    | L1   | 21.0       | 27.3        | 50.0         |

|                        |                                                                                                                     |                            |         |
|------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 1                                                                                                              | <b>Temperature :</b>       | 21~23°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                        | <b>Relative Humidity :</b> | 51~53%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                       | <b>Phase :</b>             | Neutral |
| <b>Function Type :</b> | GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Earphone + Camera<br>(Front) + USB Cable (Charging from Adapter) |                            |         |


**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 48.8             | Off    | N    | 19.6       | 17.2        | 66.0         |
| 0.190000        | 38.6             | Off    | N    | 19.6       | 25.4        | 64.0         |
| 0.278000        | 37.5             | Off    | N    | 19.6       | 23.4        | 60.9         |
| 0.566000        | 35.8             | Off    | N    | 19.6       | 20.2        | 56.0         |
| 7.246000        | 33.9             | Off    | N    | 20.0       | 26.1        | 60.0         |
| 26.998000       | 39.3             | Off    | N    | 21.2       | 20.7        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 26.3           | Off    | N    | 19.6       | 29.7        | 56.0         |
| 0.190000        | 26.6           | Off    | N    | 19.6       | 27.4        | 54.0         |
| 0.278000        | 23.9           | Off    | N    | 19.6       | 27.0        | 50.9         |
| 0.566000        | 24.4           | Off    | N    | 19.6       | 21.6        | 46.0         |
| 7.246000        | 23.7           | Off    | N    | 20.0       | 26.3        | 50.0         |
| 26.998000       | 26.3           | Off    | N    | 21.2       | 23.7        | 50.0         |

## 3.6 Frequency Stability Measurement

### 3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

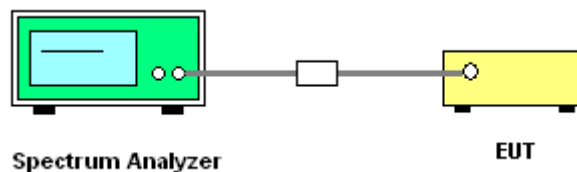
### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

### 3.6.4 Test Setup



### 3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



## **3.7 Automatically Discontinue Transmission**

### **3.7.1 Limit of Automatically Discontinue Transmission**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

### **3.7.2 Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

### **3.7.3 Test Result of Automatically Discontinue Transmission**

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



## **3.8 Antenna Requirements**

### **3.8.1 Standard Applicable**

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **3.8.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.8.3 Antenna Gain**

The antenna gain is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

| Instrument                | Manufacturer               | Model No.                 | Serial No.   | Characteristics | Calibration Date | Test Date                     | Due Date      | Remark                |
|---------------------------|----------------------------|---------------------------|--------------|-----------------|------------------|-------------------------------|---------------|-----------------------|
| Spectrum Analyzer         | R&S                        | FSV40                     | 101078       | 9kHz~40GHz      | May 07, 2016     | Nov. 07, 2016 ~ Nov. 18, 2016 | May 06, 2017  | Conducted (TH01-SZ)   |
| Pulse Power Sensor        | Anritsu                    | MA2411B                   | 1207253      | 30MHz~40GHz     | Jan. 12, 2016    | Nov. 07, 2016 ~ Nov. 18, 2016 | Jan. 11, 2017 | Conducted (TH01-SZ)   |
| Power Meter               | Anritsu                    | ML2495A                   | 1218010      | 50MHz Bandwidth | Jan. 12, 2016    | Nov. 07, 2016 ~ Nov. 18, 2016 | Jan. 11, 2017 | Conducted (TH01-SZ)   |
| DC Power Supply           | GWINSTEK                   | AnritsuGPS-3030D          | EM882636     | Max 30V         | May 07, 2016     | Nov. 07, 2016 ~ Nov. 18, 2016 | May 06, 2017  | Conducted (TH01-SZ)   |
| Thermal Chamber           | Ten Billion Hongzhonggroup | LP-150U                   | H2014081803  | -40~+150°C      | Jul. 16, 2016    | Nov. 07, 2016 ~ Nov. 18, 2016 | Jul. 15, 2017 | Conducted (TH01-SZ)   |
| AC Power Source           | ChainTek                   | APC-1000W                 | N/A          | N/A             | N/A              | Nov. 03, 2016                 | N/A           | Conduction (CO05-HY)  |
| EMI Test Receiver         | Rohde & Schwarz            | ESCI 7                    | 100724       | 9kHz~7GHz       | Aug. 30, 2016    | Nov. 03, 2016                 | Aug. 29, 2017 | Conduction (CO05-HY)  |
| LISN                      | Rohde & Schwarz            | ENV216                    | 100080       | 9kHz~30MHz      | Dec. 02, 2015    | Nov. 03, 2016                 | Dec. 01, 2016 | Conduction (CO05-HY)  |
| EMI Test Receiver&SA      | KEYSIGHT                   | N9038A                    | MY54450083   | 20Hz~8.4GHz     | May 07, 2016     | Nov. 11, 2016 ~ Nov. 14, 2016 | May 06, 2017  | Radiation (03CH03-SZ) |
| EXA Spectrum Analyzer     | KEYSIGHT                   | N9010A                    | MY55150246   | 10Hz~44GHz;     | May 07, 2016     | Nov. 11, 2016 ~ Nov. 14, 2016 | May 06, 2017  | Radiation (03CH03-SZ) |
| Loop Antenna              | R&S                        | HFH2-Z2                   | 100354       | 9kHz~30MHz      | May 07, 2016     | Nov. 11, 2016 ~ Nov. 14, 2016 | May 06, 2017  | Radiation (03CH03-SZ) |
| Bilog Antenna             | TeseQ                      | CBL6112D                  | 35408        | 30MHz-2GHz      | May 21, 2016     | Nov. 11, 2016 ~ Nov. 14, 2016 | May 20, 2017  | Radiation (03CH03-SZ) |
| Double Ridge Horn Antenna | SCHWARZBEC K               | BBHA9120D                 | 9120D-1355   | 1GHz~18GHz      | May 07, 2016     | Nov. 11, 2016 ~ Nov. 14, 2016 | May 06, 2017  | Radiation (03CH03-SZ) |
| HF Amplifier              | MITEQ                      | TTA1840-35-HG             | 1871923      | 18GHz~40GHz     | Jul. 16, 2016    | Nov. 11, 2016 ~ Nov. 14, 2016 | Jul. 15, 2017 | Radiation (03CH03-SZ) |
| SHF-EHF Horn              | com-power                  | AH-840                    | 101071       | 18GHz-40GHz     | Aug. 10, 2016    | Nov. 11, 2016 ~ Nov. 14, 2016 | Aug. 09, 2017 | Radiation (03CH03-SZ) |
| Amplifier                 | Burgeon                    | BPA-530                   | 102210       | 0.01Hz ~3000MHz | Oct. 11, 2016    | Nov. 11, 2016 ~ Nov. 14, 2016 | Oct. 10, 2017 | Radiation (03CH03-SZ) |
| HF Amplifier              | MITEQ                      | AMF-7D-0010 1800-30-10P-R | 1943528      | 1GHz~18GHz      | Oct. 11, 2016    | Nov. 11, 2016 ~ Nov. 14, 2016 | Oct. 10, 2017 | Radiation (03CH03-SZ) |
| Amplifier                 | Agilent Technologies       | 83017A                    | MY39501302   | 500MHz~26.5GHz  | Jan. 12, 2016    | Nov. 11, 2016 ~ Nov. 14, 2016 | Jan. 11, 2017 | Radiation (03CH03-SZ) |
| AC Power Source           | Chroma                     | 61601                     | 616010001985 | N/A             | NCR              | Nov. 11, 2016 ~ Nov. 14, 2016 | NCR           | Radiation (03CH03-SZ) |
| Turn Table                | EM                         | EM1000                    | N/A          | 0~360 degree    | NCR              | Nov. 11, 2016 ~ Nov. 14, 2016 | NCR           | Radiation (03CH03-SZ) |
| Antenna Mast              | EM                         | EM1000                    | N/A          | 1 m~4 m         | NCR              | Nov. 11, 2016 ~ Nov. 14, 2016 | NCR           | Radiation (03CH03-SZ) |

## 5 Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

|                                                                            |     |
|----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 2.7 |
|----------------------------------------------------------------------------|-----|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                            |     |
|----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.1 |
|----------------------------------------------------------------------------|-----|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|                                                                            |     |
|----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.0 |
|----------------------------------------------------------------------------|-----|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|                                                                            |     |
|----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.0 |
|----------------------------------------------------------------------------|-----|



## **Appendix A. Conducted Test Results**

Report Number : FR682304E

|                |                       |                    |       |    |
|----------------|-----------------------|--------------------|-------|----|
| Test Engineer: | Bruce Huang           | Temperature:       | 21~25 | °C |
| Test Date:     | 2016/11/07~2016/11/18 | Relative Humidity: | 51~54 | %  |

**TEST RESULTS DATA**  
**6dB and 26dB EBW and 99% OBW**

| Band IV |           |     |     |             |                     |                       |                      |                                |           |
|---------|-----------|-----|-----|-------------|---------------------|-----------------------|----------------------|--------------------------------|-----------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | 26 dB Bandwidth (MHz) | 6 dB Bandwidth (MHz) | 6dB Bandwidth min. Limit (MHz) | Pass/Fail |
| 11a     | 6M bps    | 1   | 149 | 5745        | 18.48               | 23.526                | 16.3836              | 0.5                            | Pass      |
| 11a     | 6Mbps     | 1   | 157 | 5785        | 18.73               | 23.327                | 16.3437              | 0.5                            | Pass      |
| 11a     | 6Mbps     | 1   | 165 | 5825        | 18.73               | 23.177                | 16.3836              | 0.5                            | Pass      |
| HT20    | MCS 0     | 1   | 149 | 5745        | 19.23               | 23.726                | 17.5824              | 0.5                            | Pass      |
| HT20    | MCS 0     | 1   | 157 | 5785        | 19.43               | 23.726                | 17.5824              | 0.5                            | Pass      |
| HT20    | MCS 0     | 1   | 165 | 5825        | 19.33               | 23.427                | 17.5824              | 0.5                            | Pass      |
| HT40    | MCS 0     | 1   | 151 | 5755        | 37.06               | 44.326                | 35.4446              | 0.5                            | Pass      |
| HT40    | MCS 0     | 1   | 159 | 5795        | 36.76               | 44.595                | 35.1249              | 0.5                            | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Band IV |           |                 |     |             |                  |                               |                                 |          |  |           |
|---------|-----------|-----------------|-----|-------------|------------------|-------------------------------|---------------------------------|----------|--|-----------|
| Mod.    | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) |  | Pass/Fail |
| 11a     | 6M bps    | 1               | 149 | 5745        | 0.31             | 13.60                         | 30.00                           | -0.17    |  | Pass      |
| 11a     | 6Mbps     | 1               | 157 | 5785        | 0.31             | 13.82                         | 30.00                           | -0.17    |  | Pass      |
| 11a     | 6Mbps     | 1               | 165 | 5825        | 0.31             | 13.44                         | 30.00                           | -0.17    |  | Pass      |
| HT20    | MCS 0     | 1               | 149 | 5745        | 0.33             | 13.71                         | 30.00                           | -0.17    |  | Pass      |
| HT20    | MCS 0     | 1               | 157 | 5785        | 0.33             | 13.77                         | 30.00                           | -0.17    |  | Pass      |
| HT20    | MCS 0     | 1               | 165 | 5825        | 0.33             | 13.59                         | 30.00                           | -0.17    |  | Pass      |
| HT40    | MCS 0     | 1               | 151 | 5755        | 0.63             | 13.73                         | 30.00                           | -0.17    |  | Pass      |
| HT40    | MCS 0     | 1               | 159 | 5795        | 0.63             | 13.75                         | 30.00                           | -0.17    |  | Pass      |

**TEST RESULTS DATA**  
**Power Spectral Density**

| Band IV |           |                 |     |             |                  |                                 |                                    |                                |          |           |
|---------|-----------|-----------------|-----|-------------|------------------|---------------------------------|------------------------------------|--------------------------------|----------|-----------|
| Mod.    | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | 10log (500kHz /RBW) Factor (dB) | Average Power Density (dBm/500kHz) | Average PSD Limit (dBm/500kHz) | DG (dBi) | Pass/Fail |
| 11a     | 6M bps    | 1               | 149 | 5745        | 0.31             | 2.22                            | -0.74                              | 30.00                          | -0.17    | Pass      |
| 11a     | 6Mbps     | 1               | 157 | 5785        | 0.31             | 2.22                            | -0.69                              | 30.00                          | -0.17    | Pass      |
| 11a     | 6Mbps     | 1               | 165 | 5825        | 0.31             | 2.22                            | -0.93                              | 30.00                          | -0.17    | Pass      |
| HT20    | MCS 0     | 1               | 149 | 5745        | 0.33             | 2.22                            | -1.79                              | 30.00                          | -0.17    | Pass      |
| HT20    | MCS 0     | 1               | 157 | 5785        | 0.33             | 2.22                            | -1.79                              | 30.00                          | -0.17    | Pass      |
| HT20    | MCS 0     | 1               | 165 | 5825        | 0.33             | 2.22                            | -1.69                              | 30.00                          | -0.17    | Pass      |
| HT40    | MCS 0     | 1               | 151 | 5755        | 0.63             | 2.22                            | -4.40                              | 30.00                          | -0.17    | Pass      |
| HT40    | MCS 0     | 1               | 159 | 5795        | 0.63             | 2.22                            | -5.09                              | 30.00                          | -0.17    | Pass      |

**TEST RESULTS DATA**  
**Frequency Stability**

| Band IV |           |     |     |             |                        |                           |                           |                  |             |      |
|---------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a     | 6M bps    | 1   | 149 | 5745        | 5745.050               | 0.050                     | 8.70                      | 20               | 3.5         |      |
| 11a     | 6M bps    | 1   | 149 | 5745        | 5745.050               | 0.050                     | 8.70                      | 20               | 4.1         |      |
| 11a     | 6M bps    | 1   | 149 | 5745        | 5745.050               | 0.050                     | 8.70                      | 20               | 3.8         |      |
| 11a     | 6M bps    | 1   | 149 | 5745        | 5745.100               | 0.100                     | 17.41                     | -30              | 3.8         |      |
| 11a     | 6M bps    | 1   | 149 | 5745        | 5745.050               | 0.050                     | 8.70                      | 50               | 3.8         |      |



## Appendix B. Radiated Spurious Emission

|                 |               |                     |         |
|-----------------|---------------|---------------------|---------|
| Test Engineer : | LiangLiang Lu | Temperature :       | 22~25°C |
|                 |               | Relative Humidity : | 48~52%  |

### Band 4 - 5725~5850MHz

#### WIFI 802.11a (Band Edge @ 3m)

| WIFI<br>Ant.<br>1            | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 149<br>5745MHz |      | 5646                 | 47.63               | -20.67                  | 68.3                        | 40.28                     | 33.17                         | 7.67                    | 33.49                      | 152                  | 111                     | P                       | H               |
|                              |      | 5692.8               | 49.87               | -50.12                  | 99.99                       | 42.47                     | 33.23                         | 7.68                    | 33.51                      | 152                  | 111                     | P                       | H               |
|                              |      | 5705.6               | 47.8                | -59.07                  | 106.87                      | 40.39                     | 33.25                         | 7.68                    | 33.52                      | 152                  | 111                     | P                       | H               |
|                              |      | 5723.8               | 56.91               | -62.65                  | 119.56                      | 49.48                     | 33.27                         | 7.68                    | 33.52                      | 152                  | 111                     | P                       | H               |
|                              |      | 5745                 | 103.45              | -                       | -                           | 95.95                     | 33.29                         | 7.74                    | 33.53                      | 152                  | 111                     | P                       | H               |
|                              |      | 5745                 | 95.39               | -                       | -                           | 87.89                     | 33.29                         | 7.74                    | 33.53                      | 152                  | 111                     | A                       | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |      | 5643.6               | 48.47               | -19.83                  | 68.3                        | 41.14                     | 33.17                         | 7.65                    | 33.49                      | 151                  | 43                      | P                       | V               |
|                              |      | 5691.4               | 49.17               | -49.79                  | 98.96                       | 41.77                     | 33.23                         | 7.68                    | 33.51                      | 151                  | 43                      | P                       | V               |
|                              |      | 5720                 | 47.69               | -63.21                  | 110.9                       | 40.26                     | 33.27                         | 7.68                    | 33.52                      | 151                  | 43                      | P                       | V               |
|                              |      | 5724.2               | 54.45               | -66.03                  | 120.48                      | 47.02                     | 33.27                         | 7.68                    | 33.52                      | 151                  | 43                      | P                       | V               |
|                              |      | 5745                 | 100.6               | -                       | -                           | 93.1                      | 33.29                         | 7.74                    | 33.53                      | 151                  | 43                      | P                       | V               |
|                              |      | 5745                 | 92.96               | -                       | -                           | 85.46                     | 33.29                         | 7.74                    | 33.53                      | 151                  | 43                      | A                       | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1            | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 157<br>5785MHz |      | 5607.6               | 48.01               | -20.29                  | 68.3                        | 40.73                     | 33.12                         | 7.65                    | 33.49                      | 151                  | 40                      | P                       | H               |
|                              |      | 5682.2               | 46.96               | -45.21                  | 92.17                       | 39.59                     | 33.21                         | 7.67                    | 33.51                      | 151                  | 40                      | P                       | H               |
|                              |      | 5717.6               | 47.59               | -62.64                  | 110.23                      | 40.16                     | 33.27                         | 7.68                    | 33.52                      | 151                  | 40                      | P                       | H               |
|                              |      | 5720                 | 46.89               | -64.01                  | 110.9                       | 39.46                     | 33.27                         | 7.68                    | 33.52                      | 151                  | 40                      | P                       | H               |
|                              |      | 5785                 | 102.17              | -                       | -                           | 94.58                     | 33.33                         | 7.8                     | 33.54                      | 151                  | 40                      | P                       | H               |
|                              |      | 5785                 | 93.55               | -                       | -                           | 85.96                     | 33.33                         | 7.8                     | 33.54                      | 150                  | 40                      | A                       | H               |
|                              |      | 5852.6               | 49.05               | -67.32                  | 116.37                      | 41.33                     | 33.41                         | 7.87                    | 33.56                      | 151                  | 40                      | P                       | H               |
|                              |      | 5855.8               | 47.35               | -63.33                  | 110.68                      | 39.61                     | 33.43                         | 7.87                    | 33.56                      | 151                  | 40                      | P                       | H               |
|                              |      | 5876.6               | 48.23               | -55.88                  | 104.11                      | 40.46                     | 33.46                         | 7.87                    | 33.56                      | 151                  | 40                      | P                       | H               |
|                              |      | 5928.8               | 47.42               | -20.88                  | 68.3                        | 39.53                     | 33.52                         | 7.95                    | 33.58                      | 151                  | 40                      | P                       | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |      | 5617.2               | 47.24               | -21.06                  | 68.3                        | 39.94                     | 33.14                         | 7.65                    | 33.49                      | 153                  | 100                     | P                       | V               |
|                              |      | 5696.6               | 46.66               | -56.13                  | 102.79                      | 39.26                     | 33.23                         | 7.68                    | 33.51                      | 153                  | 100                     | P                       | V               |
|                              |      | 5704.8               | 47.41               | -59.24                  | 106.65                      | 40                        | 33.25                         | 7.68                    | 33.52                      | 153                  | 100                     | P                       | V               |
|                              |      | 5721                 | 47.41               | -65.77                  | 113.18                      | 39.98                     | 33.27                         | 7.68                    | 33.52                      | 153                  | 100                     | P                       | V               |
|                              |      | 5785                 | 101.13              | -                       | -                           | 93.54                     | 33.33                         | 7.8                     | 33.54                      | 153                  | 100                     | P                       | V               |
|                              |      | 5785                 | 91.85               | -                       | -                           | 84.26                     | 33.33                         | 7.8                     | 33.54                      | 153                  | 100                     | A                       | V               |
|                              |      | 5850.4               | 46.31               | -75.08                  | 121.39                      | 38.59                     | 33.41                         | 7.87                    | 33.56                      | 153                  | 100                     | P                       | V               |
|                              |      | 5862.8               | 47.92               | -60.79                  | 108.71                      | 40.18                     | 33.43                         | 7.87                    | 33.56                      | 153                  | 100                     | P                       | V               |
|                              |      | 5916.6               | 48.07               | -26.42                  | 74.49                       | 40.24                     | 33.5                          | 7.91                    | 33.58                      | 153                  | 100                     | P                       | V               |
|                              |      | 5942.6               | 47.4                | -20.9                   | 68.3                        | 39.49                     | 33.54                         | 7.95                    | 33.58                      | 153                  | 100                     | P                       | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                     | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11a<br/>CH 165<br/>5825MHz</b> |                                                                                             | 5825                 | 101.25              | -                       | -                           | 93.57                     | 33.39                         | 7.84                    | 33.55                      | 153                  | 110                     | P                       | H               |
|                                       |                                                                                             | 5825                 | 93.15               | -                       | -                           | 85.47                     | 33.39                         | 7.84                    | 33.55                      | 153                  | 110                     | A                       | H               |
|                                       |                                                                                             | 5850.2               | 48.71               | -73.13                  | 121.84                      | 40.99                     | 33.41                         | 7.87                    | 33.56                      | 153                  | 110                     | P                       | H               |
|                                       |                                                                                             | 5865.4               | 47.58               | -60.41                  | 107.99                      | 39.84                     | 33.43                         | 7.87                    | 33.56                      | 153                  | 110                     | P                       | H               |
|                                       |                                                                                             | 5877                 | 49.28               | -54.53                  | 103.81                      | 41.51                     | 33.46                         | 7.87                    | 33.56                      | 153                  | 110                     | P                       | H               |
|                                       |                                                                                             | 5943                 | 47.66               | -20.64                  | 68.3                        | 39.75                     | 33.54                         | 7.95                    | 33.58                      | 153                  | 110                     | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 5825                 | 100.11              | -                       | -                           | 92.43                     | 33.39                         | 7.84                    | 33.55                      | 202                  | 38                      | P                       | V               |
|                                       |                                                                                             | 5825                 | 92.58               | -                       | -                           | 84.9                      | 33.39                         | 7.84                    | 33.55                      | 202                  | 38                      | A                       | V               |
|                                       |                                                                                             | 5850.2               | 46.88               | -74.96                  | 121.84                      | 39.16                     | 33.41                         | 7.87                    | 33.56                      | 202                  | 38                      | P                       | V               |
|                                       |                                                                                             | 5873                 | 47.17               | -58.69                  | 105.86                      | 39.4                      | 33.46                         | 7.87                    | 33.56                      | 202                  | 38                      | P                       | V               |
|                                       |                                                                                             | 5920.2               | 49.86               | -21.98                  | 71.84                       | 42.03                     | 33.5                          | 7.91                    | 33.58                      | 202                  | 38                      | P                       | V               |
|                                       |                                                                                             | 5926.6               | 46.95               | -21.35                  | 68.3                        | 39.06                     | 33.52                         | 7.95                    | 33.58                      | 202                  | 38                      | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 149<br>5745MHz |                                                                                             | 11490                | 49.16               | -24.84                  | 74                          | 58.11                     | 39.7                          | 11.1                    | 59.75                      | 145                  | 265                     | P                       | H               |
|                              |                                                                                             | 17235                | 51.87               | -16.43                  | 68.3                        | 55.17                     | 40.06                         | 14.89                   | 58.25                      | 174                  | 321                     | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11490                | 49.9                | -24.1                   | 74                          | 58.85                     | 39.7                          | 11.1                    | 59.75                      | 145                  | 265                     | P                       | V               |
|                              |                                                                                             | 17235                | 51.92               | -16.38                  | 68.3                        | 55.22                     | 40.06                         | 14.89                   | 58.25                      | 174                  | 321                     | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 157<br>5785MHz |                                                                                             | 11570                | 48.13               | -25.87                  | 74                          | 57.13                     | 39.66                         | 11.17                   | 59.83                      | 105                  | 198                     | P                       | H               |
|                              |                                                                                             | 17355                | 53.09               | -15.21                  | 68.3                        | 55.77                     | 40.34                         | 14.78                   | 57.8                       | 189                  | 185                     | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11570                | 48.26               | -25.74                  | 74                          | 57.26                     | 39.66                         | 11.17                   | 59.83                      | 105                  | 198                     | P                       | V               |
|                              |                                                                                             | 17355                | 53.04               | -15.26                  | 68.3                        | 55.72                     | 40.34                         | 14.78                   | 57.8                       | 189                  | 185                     | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 165<br>5825MHz |                                                                                             | 11650                | 47.6                | -26.4                   | 74                          | 56.65                     | 39.62                         | 11.23                   | 59.9                       | 250                  | 0                       | P                       | H               |
|                              |                                                                                             | 17475                | 52.74               | -15.56                  | 68.3                        | 54.8                      | 40.62                         | 14.67                   | 57.35                      | 150                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11650                | 47.28               | -26.72                  | 74                          | 56.33                     | 39.62                         | 11.23                   | 59.9                       | 250                  | 0                       | P                       | V               |
|                              |                                                                                             | 17475                | 52.7                | -15.6                   | 68.3                        | 54.76                     | 40.62                         | 14.67                   | 57.35                      | 150                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 149<br>5745MHz |      | 5613                 | 49.02               | -19.28                  | 68.3                        | 41.74                     | 33.12                         | 7.65                    | 33.49                      | 151                  | 111                     | P                       | H               |
|                                      |      | 5693                 | 51.52               | -48.62                  | 100.14                      | 44.12                     | 33.23                         | 7.68                    | 33.51                      | 151                  | 111                     | P                       | H               |
|                                      |      | 5720                 | 51.58               | -59.32                  | 110.9                       | 44.15                     | 33.27                         | 7.68                    | 33.52                      | 151                  | 111                     | P                       | H               |
|                                      |      | 5724.2               | 56.52               | -63.96                  | 120.48                      | 49.09                     | 33.27                         | 7.68                    | 33.52                      | 151                  | 111                     | P                       | H               |
|                                      |      | 5745                 | 103.1               | -                       | -                           | 95.6                      | 33.29                         | 7.74                    | 33.53                      | 151                  | 111                     | P                       | H               |
|                                      |      | 5745                 | 95.35               | -                       | -                           | 87.85                     | 33.29                         | 7.74                    | 33.53                      | 151                  | 111                     | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 5605.8               | 47.63               | -20.67                  | 68.3                        | 40.36                     | 33.12                         | 7.64                    | 33.49                      | 223                  | 42                      | P                       | V               |
|                                      |      | 5693.6               | 50.19               | -50.39                  | 100.58                      | 42.79                     | 33.23                         | 7.68                    | 33.51                      | 223                  | 42                      | P                       | V               |
|                                      |      | 5719.4               | 48.48               | -62.25                  | 110.73                      | 41.05                     | 33.27                         | 7.68                    | 33.52                      | 223                  | 42                      | P                       | V               |
|                                      |      | 5723.4               | 57.25               | -61.4                   | 118.65                      | 49.82                     | 33.27                         | 7.68                    | 33.52                      | 223                  | 42                      | P                       | V               |
|                                      |      | 5745                 | 101.2               | -                       | -                           | 93.7                      | 33.29                         | 7.74                    | 33.53                      | 223                  | 42                      | P                       | V               |
|                                      |      | 5745                 | 94.09               | -                       | -                           | 86.59                     | 33.29                         | 7.74                    | 33.53                      | 223                  | 42                      | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 157<br>5785MHz |      | 5602.8               | 47.08               | -21.22                  | 68.3                        | 39.81                     | 33.12                         | 7.64                    | 33.49                      | 152                  | 111                     | P                       | H               |
|                                      |      | 5667.8               | 47.14               | -34.37                  | 81.51                       | 39.76                     | 33.21                         | 7.67                    | 33.5                       | 152                  | 111                     | P                       | H               |
|                                      |      | 5719                 | 47.98               | -62.64                  | 110.62                      | 40.55                     | 33.27                         | 7.68                    | 33.52                      | 152                  | 111                     | P                       | H               |
|                                      |      | 5720                 | 47.67               | -63.23                  | 110.9                       | 40.24                     | 33.27                         | 7.68                    | 33.52                      | 152                  | 111                     | P                       | H               |
|                                      |      | 5785                 | 102.7               | -                       | -                           | 95.11                     | 33.33                         | 7.8                     | 33.54                      | 152                  | 111                     | P                       | H               |
|                                      |      | 5785                 | 95.44               | -                       | -                           | 87.85                     | 33.33                         | 7.8                     | 33.54                      | 152                  | 111                     | A                       | H               |
|                                      |      | 5851.8               | 46.56               | -71.64                  | 118.2                       | 38.84                     | 33.41                         | 7.87                    | 33.56                      | 152                  | 111                     | P                       | H               |
|                                      |      | 5868                 | 47.69               | -59.57                  | 107.26                      | 39.95                     | 33.43                         | 7.87                    | 33.56                      | 152                  | 111                     | P                       | H               |
|                                      |      | 5923.6               | 47.69               | -21.64                  | 69.33                       | 39.84                     | 33.52                         | 7.91                    | 33.58                      | 152                  | 111                     | P                       | H               |
|                                      |      | 5932                 | 47.34               | -20.96                  | 68.3                        | 39.45                     | 33.52                         | 7.95                    | 33.58                      | 152                  | 111                     | P                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 5642                 | 46.71               | -21.59                  | 68.3                        | 39.38                     | 33.17                         | 7.65                    | 33.49                      | 236                  | 39                      | P                       | V               |
|                                      |      | 5654.2               | 47.47               | -23.95                  | 71.42                       | 40.11                     | 33.19                         | 7.67                    | 33.5                       | 236                  | 39                      | P                       | V               |
|                                      |      | 5711                 | 47.16               | -61.22                  | 108.38                      | 39.75                     | 33.25                         | 7.68                    | 33.52                      | 236                  | 39                      | P                       | V               |
|                                      |      | 5724.8               | 46.96               | -74.88                  | 121.84                      | 39.53                     | 33.27                         | 7.68                    | 33.52                      | 236                  | 39                      | P                       | V               |
|                                      |      | 5785                 | 100.55              | -                       | -                           | 92.96                     | 33.33                         | 7.8                     | 33.54                      | 236                  | 39                      | P                       | V               |
|                                      |      | 5785                 | 95.18               | -                       | -                           | 87.59                     | 33.33                         | 7.8                     | 33.54                      | 236                  | 39                      | A                       | V               |
|                                      |      | 5854.4               | 46.4                | -65.87                  | 112.27                      | 38.66                     | 33.43                         | 7.87                    | 33.56                      | 236                  | 39                      | P                       | V               |
|                                      |      | 5859.6               | 46.69               | -62.92                  | 109.61                      | 38.95                     | 33.43                         | 7.87                    | 33.56                      | 236                  | 39                      | P                       | V               |
|                                      |      | 5895.6               | 47.93               | -42.09                  | 90.02                       | 40.11                     | 33.48                         | 7.91                    | 33.57                      | 236                  | 39                      | P                       | V               |
|                                      |      | 5940.4               | 47.23               | -21.07                  | 68.3                        | 39.32                     | 33.54                         | 7.95                    | 33.58                      | 236                  | 39                      | P                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 165<br>5825MHz |                                                                                             | 5825                 | 101.85              | -                       | -                           | 94.17                     | 33.39                         | 7.84                    | 33.55                      | 154                  | 114                     | P                       | H               |
|                                      |                                                                                             | 5825                 | 95.2                | -                       | -                           | 87.52                     | 33.39                         | 7.84                    | 33.55                      | 154                  | 114                     | A                       | H               |
|                                      |                                                                                             | 5850.6               | 48.44               | -72.49                  | 120.93                      | 40.72                     | 33.41                         | 7.87                    | 33.56                      | 154                  | 114                     | P                       | H               |
|                                      |                                                                                             | 5855.2               | 47.32               | -63.52                  | 110.84                      | 39.58                     | 33.43                         | 7.87                    | 33.56                      | 154                  | 114                     | P                       | H               |
|                                      |                                                                                             | 5877                 | 48.54               | -55.27                  | 103.81                      | 40.77                     | 33.46                         | 7.87                    | 33.56                      | 154                  | 114                     | P                       | H               |
|                                      |                                                                                             | 5947                 | 47.8                | -20.5                   | 68.3                        | 39.89                     | 33.54                         | 7.95                    | 33.58                      | 154                  | 114                     | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 5825                 | 99.81               | -                       | -                           | 92.13                     | 33.39                         | 7.84                    | 33.55                      | 152                  | 42                      | P                       | V               |
|                                      |                                                                                             | 5825                 | 93.14               | -                       | -                           | 85.46                     | 33.39                         | 7.84                    | 33.55                      | 152                  | 42                      | A                       | V               |
|                                      |                                                                                             | 5854.2               | 48                  | -64.72                  | 112.72                      | 40.26                     | 33.43                         | 7.87                    | 33.56                      | 152                  | 42                      | P                       | V               |
|                                      |                                                                                             | 5871.8               | 46.83               | -59.36                  | 106.19                      | 39.06                     | 33.46                         | 7.87                    | 33.56                      | 152                  | 42                      | P                       | V               |
|                                      |                                                                                             | 5923                 | 47.87               | -21.9                   | 69.77                       | 40.02                     | 33.52                         | 7.91                    | 33.58                      | 152                  | 42                      | P                       | V               |
|                                      |                                                                                             | 5933.8               | 47.62               | -20.68                  | 68.3                        | 39.73                     | 33.52                         | 7.95                    | 33.58                      | 152                  | 42                      | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 149<br>5745MHz |                                                                                             | 11490                | 47.93               | -26.07                  | 74                          | 56.88                     | 39.7                          | 11.1                    | 59.75                      | 250                  | 0                       | P                     | H             |
|                                      |                                                                                             | 17235                | 51.13               | -17.17                  | 68.3                        | 54.43                     | 40.06                         | 14.89                   | 58.25                      | 150                  | 0                       | P                     | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             | 11490                | 48.01               | -25.99                  | 74                          | 56.96                     | 39.7                          | 11.1                    | 59.75                      | 250                  | 0                       | P                     | V             |
|                                      |                                                                                             | 17235                | 52.64               | -15.66                  | 68.3                        | 55.94                     | 40.06                         | 14.89                   | 58.25                      | 150                  | 0                       | P                     | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 157<br>5785MHz |                                                                                             | 11570                | 48.44               | -25.56                  | 74                          | 57.44                     | 39.66                         | 11.17                   | 59.83                      | 105                  | 198                     | P                     | H             |
|                                      |                                                                                             | 17355                | 52.64               | -15.66                  | 68.3                        | 55.32                     | 40.34                         | 14.78                   | 57.8                       | 189                  | 185                     | P                     | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             | 11570                | 48.71               | -25.29                  | 74                          | 57.71                     | 39.66                         | 11.17                   | 59.83                      | 105                  | 198                     | P                     | V             |
|                                      |                                                                                             | 17355                | 53.62               | -14.68                  | 68.3                        | 56.3                      | 40.34                         | 14.78                   | 57.8                       | 189                  | 185                     | P                     | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 165<br>5825MHz |                                                                                             | 11650                | 49.05               | -24.95                  | 74                          | 58.1                      | 39.62                         | 11.23                   | 59.9                       | 146                  | 347                     | P                     | H             |
|                                      |                                                                                             | 17475                | 54.94               | -13.36                  | 68.3                        | 57                        | 40.62                         | 14.67                   | 57.35                      | 100                  | 360                     | P                     | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             | 11650                | 48.44               | -25.56                  | 74                          | 57.49                     | 39.62                         | 11.23                   | 59.9                       | 146                  | 347                     | P                     | V             |
|                                      |                                                                                             | 17475                | 54.63               | -13.67                  | 68.3                        | 56.69                     | 40.62                         | 14.67                   | 57.35                      | 100                  | 360                     | P                     | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       |               |



## Band 4 5725~5850MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 151<br>5755MHz |      | 5626                 | 48.31               | -19.99                  | 68.3                        | 41.01                     | 33.14                         | 7.65                    | 33.49                      | 166                  | 118                     | P                       | H               |
|                                      |      | 5652.8               | 49.24               | -21.14                  | 70.38                       | 41.87                     | 33.19                         | 7.67                    | 33.49                      | 166                  | 118                     | P                       | H               |
|                                      |      | 5717.2               | 53.49               | -56.63                  | 110.12                      | 46.08                     | 33.25                         | 7.68                    | 33.52                      | 166                  | 118                     | P                       | H               |
|                                      |      | 5721.6               | 56.68               | -57.87                  | 114.55                      | 49.25                     | 33.27                         | 7.68                    | 33.52                      | 166                  | 118                     | P                       | H               |
|                                      |      | 5755                 | 98.33               | -                       | -                           | 90.81                     | 33.31                         | 7.74                    | 33.53                      | 166                  | 118                     | P                       | H               |
|                                      |      | 5755                 | 90.12               | -                       | -                           | 82.6                      | 33.31                         | 7.74                    | 33.53                      | 166                  | 118                     | A                       | H               |
|                                      |      | 5851                 | 46.3                | -73.72                  | 120.02                      | 38.58                     | 33.41                         | 7.87                    | 33.56                      | 166                  | 118                     | P                       | H               |
|                                      |      | 5857.4               | 47.46               | -62.77                  | 110.23                      | 39.72                     | 33.43                         | 7.87                    | 33.56                      | 166                  | 118                     | P                       | H               |
|                                      |      | 5903.4               | 48.06               | -36.19                  | 84.25                       | 40.24                     | 33.48                         | 7.91                    | 33.57                      | 166                  | 118                     | P                       | H               |
|                                      |      | 5929.6               | 47.75               | -20.55                  | 68.3                        | 39.86                     | 33.52                         | 7.95                    | 33.58                      | 166                  | 118                     | P                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 5633.8               | 48.18               | -20.12                  | 68.3                        | 40.85                     | 33.17                         | 7.65                    | 33.49                      | 239                  | 42                      | P                       | V               |
|                                      |      | 5657.4               | 48.2                | -25.6                   | 73.8                        | 40.84                     | 33.19                         | 7.67                    | 33.5                       | 239                  | 42                      | P                       | V               |
|                                      |      | 5718                 | 53.32               | -57.02                  | 110.34                      | 45.89                     | 33.27                         | 7.68                    | 33.52                      | 239                  | 42                      | P                       | V               |
|                                      |      | 5724.6               | 59.03               | -62.36                  | 121.39                      | 51.6                      | 33.27                         | 7.68                    | 33.52                      | 239                  | 42                      | P                       | V               |
|                                      |      | 5755                 | 97.26               | -                       | -                           | 89.74                     | 33.31                         | 7.74                    | 33.53                      | 239                  | 42                      | P                       | V               |
|                                      |      | 5755                 | 89.63               | -                       | -                           | 82.11                     | 33.31                         | 7.74                    | 33.53                      | 239                  | 42                      | A                       | V               |
|                                      |      | 5851.4               | 46.56               | -72.55                  | 119.11                      | 38.84                     | 33.41                         | 7.87                    | 33.56                      | 239                  | 42                      | P                       | V               |
|                                      |      | 5862.6               | 48.12               | -60.65                  | 108.77                      | 40.38                     | 33.43                         | 7.87                    | 33.56                      | 239                  | 42                      | P                       | V               |
|                                      |      | 5922                 | 49.5                | -21.01                  | 70.51                       | 41.65                     | 33.52                         | 7.91                    | 33.58                      | 239                  | 42                      | P                       | V               |
|                                      |      | 5937.2               | 47.83               | -20.47                  | 68.3                        | 39.94                     | 33.52                         | 7.95                    | 33.58                      | 239                  | 42                      | P                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 5606.6               | 47.6                | -20.7                   | 68.3                        | 40.32                     | 33.12                         | 7.65                    | 33.49                      | 150                  | 115                     | P                     | H             |
|                                      |                                                                                             | 5689.8               | 48.46               | -49.32                  | 97.78                       | 41.06                     | 33.23                         | 7.68                    | 33.51                      | 150                  | 115                     | P                     | H             |
|                                      |                                                                                             | 5711.8               | 46.89               | -61.72                  | 108.61                      | 39.48                     | 33.25                         | 7.68                    | 33.52                      | 150                  | 115                     | P                     | H             |
|                                      |                                                                                             | 5723.4               | 46.88               | -71.77                  | 118.65                      | 39.45                     | 33.27                         | 7.68                    | 33.52                      | 150                  | 115                     | P                     | H             |
|                                      |                                                                                             | 5795                 | 99.16               | -                       | -                           | 91.55                     | 33.35                         | 7.8                     | 33.54                      | 150                  | 115                     | P                     | H             |
|                                      |                                                                                             | 5795                 | 90.11               | -                       | -                           | 82.5                      | 33.35                         | 7.8                     | 33.54                      | 150                  | 115                     | A                     | H             |
|                                      |                                                                                             | 5852.8               | 46.36               | -69.56                  | 115.92                      | 38.64                     | 33.41                         | 7.87                    | 33.56                      | 150                  | 115                     | P                     | H             |
|                                      |                                                                                             | 5863                 | 47.25               | -61.41                  | 108.66                      | 39.51                     | 33.43                         | 7.87                    | 33.56                      | 150                  | 115                     | P                     | H             |
|                                      |                                                                                             | 5881.6               | 48.06               | -52.34                  | 100.4                       | 40.29                     | 33.46                         | 7.87                    | 33.56                      | 150                  | 115                     | P                     | H             |
|                                      |                                                                                             | 5928.6               | 50.08               | -18.22                  | 68.3                        | 42.19                     | 33.52                         | 7.95                    | 33.58                      | 150                  | 115                     | P                     | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             | 5607                 | 47.77               | -20.53                  | 68.3                        | 40.49                     | 33.12                         | 7.65                    | 33.49                      | 168                  | 40                      | P                     | V             |
|                                      |                                                                                             | 5664                 | 48.15               | -30.54                  | 78.69                       | 40.79                     | 33.19                         | 7.67                    | 33.5                       | 168                  | 40                      | P                     | V             |
|                                      |                                                                                             | 5702.2               | 46.88               | -59.04                  | 105.92                      | 39.46                     | 33.25                         | 7.68                    | 33.51                      | 168                  | 40                      | P                     | V             |
|                                      |                                                                                             | 5723.2               | 48.82               | -69.38                  | 118.2                       | 41.39                     | 33.27                         | 7.68                    | 33.52                      | 168                  | 40                      | P                     | V             |
|                                      |                                                                                             | 5795                 | 96.69               | -                       | -                           | 89.08                     | 33.35                         | 7.8                     | 33.54                      | 168                  | 40                      | P                     | V             |
|                                      |                                                                                             | 5795                 | 89.11               | -                       | -                           | 81.5                      | 33.35                         | 7.8                     | 33.54                      | 168                  | 40                      | A                     | V             |
|                                      |                                                                                             | 5854.2               | 47.46               | -65.26                  | 112.72                      | 39.72                     | 33.43                         | 7.87                    | 33.56                      | 168                  | 40                      | P                     | V             |
|                                      |                                                                                             | 5869.2               | 46.58               | -60.34                  | 106.92                      | 38.84                     | 33.43                         | 7.87                    | 33.56                      | 168                  | 40                      | P                     | V             |
|                                      |                                                                                             | 5919.8               | 47.51               | -24.62                  | 72.13                       | 39.68                     | 33.5                          | 7.91                    | 33.58                      | 168                  | 40                      | P                     | V             |
|                                      |                                                                                             | 5944                 | 48.03               | -20.27                  | 68.3                        | 40.12                     | 33.54                         | 7.95                    | 33.58                      | 168                  | 40                      | P                     | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       |               |



**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 151<br>5755MHz |                                                                                             | 11510                | 48.72               | -25.28                  | 74                          | 57.68                     | 39.7                          | 11.1                    | 59.76                      | 100                  | 360                     | P                       | H               |
|                                      |                                                                                             | 17265                | 52.79               | -15.51                  | 68.3                        | 55.93                     | 40.14                         | 14.85                   | 58.13                      | 100                  | 360                     | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11510                | 48.92               | -25.08                  | 74                          | 57.88                     | 39.7                          | 11.1                    | 59.76                      | 100                  | 360                     | P                       | V               |
|                                      |                                                                                             | 17265                | 52.74               | -15.56                  | 68.3                        | 55.88                     | 40.14                         | 14.85                   | 58.13                      | 100                  | 360                     | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 11590                | 48.55               | -25.45                  | 74                          | 57.58                     | 39.65                         | 11.17                   | 59.85                      | 100                  | 300                     | P                       | H               |
|                                      |                                                                                             | 17385                | 54.74               | -13.56                  | 68.3                        | 57.25                     | 40.42                         | 14.74                   | 57.67                      | 100                  | 200                     | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11590                | 48.26               | -25.74                  | 74                          | 57.29                     | 39.65                         | 11.17                   | 59.85                      | 100                  | 300                     | P                       | V               |
|                                      |                                                                                             | 17385                | 54.06               | -14.24                  | 68.3                        | 56.57                     | 40.42                         | 14.74                   | 57.67                      | 100                  | 200                     | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

## Emission below 1GHz

## 5GHz WIFI 802.11n HT20 (LF @ 3m)

| WIFI                          | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|-------------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                          |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 5GHz<br>802.11n<br>HT20<br>LF |                                                                            | 30.97     | 27.22      | -12.78 | 40         | 32.1   | 26.28    | 0.62   | 31.78  | -      | -       | P     | H     |
|                               |                                                                            | 98.87     | 36.15      | -7.35  | 43.5       | 48.04  | 18.7     | 0.99   | 31.58  | 100    | 0       | P     | H     |
|                               |                                                                            | 205.57    | 33.03      | -10.47 | 43.5       | 47.12  | 15.88    | 1.28   | 31.25  | -      | -       | P     | H     |
|                               |                                                                            | 335.55    | 30.2       | -15.8  | 46         | 39.77  | 20.02    | 1.71   | 31.3   | -      | -       | P     | H     |
|                               |                                                                            | 425.76    | 30.85      | -15.15 | 46         | 34.75  | 25.43    | 1.89   | 31.22  | -      | -       | P     | H     |
|                               |                                                                            | 974.78    | 33.74      | -20.26 | 54         | 31.92  | 29.9     | 3.19   | 31.27  | -      | -       | P     | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            | 42.61     | 34.47      | -5.53  | 40         | 44.78  | 20.82    | 0.62   | 31.75  | 100    | 0       | P     | V     |
|                               |                                                                            | 91.11     | 37.67      | -5.83  | 43.5       | 50.4   | 17.9     | 0.99   | 31.62  | -      | -       | P     | V     |
|                               |                                                                            | 168.71    | 31.95      | -11.55 | 43.5       | 45.17  | 16.98    | 1.15   | 31.35  | -      | -       | P     | V     |
|                               |                                                                            | 201.69    | 35.1       | -8.4   | 43.5       | 49.38  | 15.69    | 1.28   | 31.25  | -      | -       | P     | V     |
|                               |                                                                            | 893.3     | 32.37      | -13.63 | 46         | 32.43  | 28.45    | 2.77   | 31.28  | -      | -       | P     | V     |
|                               |                                                                            | 985.45    | 34.11      | -19.89 | 54         | 32.07  | 30.11    | 3.19   | 31.26  | -      | -       | P     | V     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                        | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |

**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.                                                                                                                   |
| P/A | <b>P</b> eak or <b>A</b> verage                                                                                                                          |
| H/V | <b>H</b> orizontal or <b>V</b> ertical                                                                                                                   |

**A calculation example for radiated spurious emission is shown as below:**

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1       |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

**Both peak and average measured complies with the limit line, so test result is “PASS”.**



## Appendix C. Radiated Spurious Emission Plots

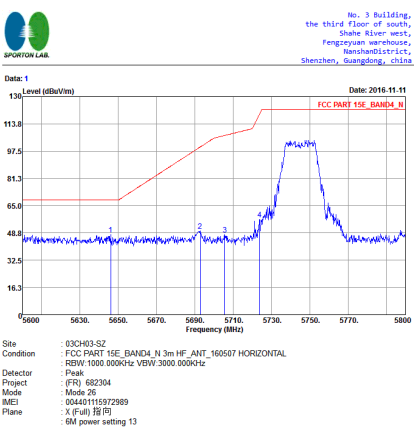
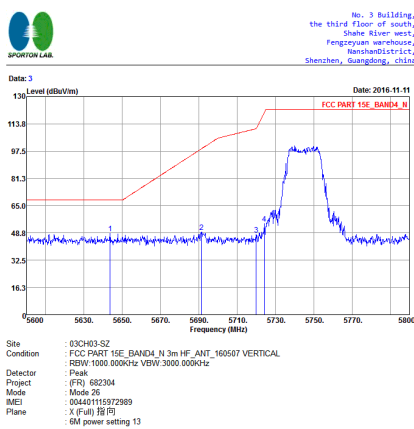
|                 |               |                     |         |
|-----------------|---------------|---------------------|---------|
| Test Engineer : | LiangLiang Lu | Temperature :       | 22~25°C |
|                 |               | Relative Humidity : | 48~52%  |

## Note symbol

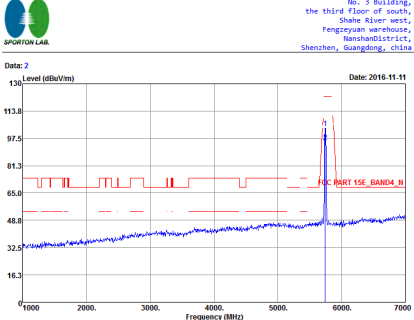
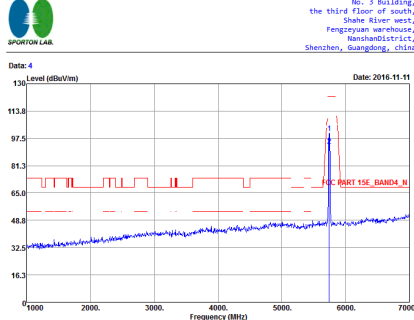
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

## Band 4 - 5725~5850MHz

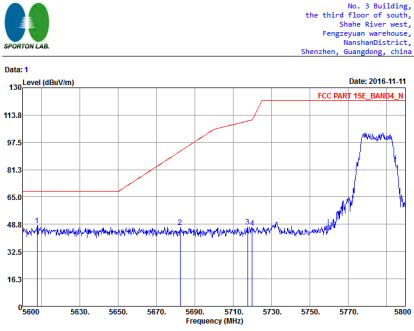
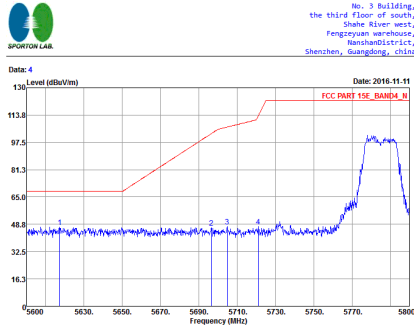
## WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                  |                                                                                      |
|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ANT  | 802.11a CH149 5745MHz                                                               |                                                                                      |
| 1    | Horizontal                                                                          | Vertical                                                                             |
| Peak |  |  |

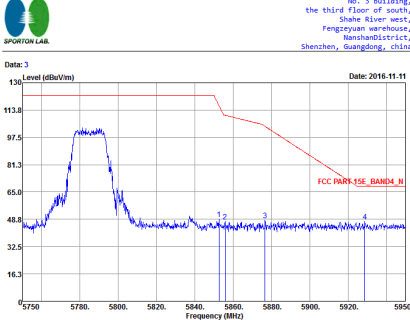
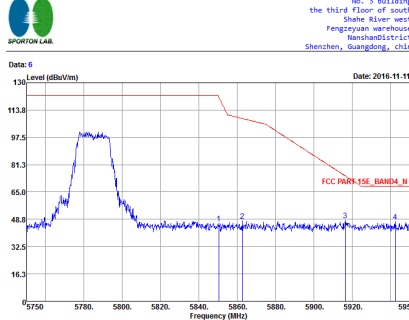


| WIFI         | Band 4 5725~5850MHz Fundamental @ 3m                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH149 5745MHz                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E, BAND4, N 3m HF, ANT, 160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 26<br/>IMEI : 00401115972989<br/>Plane : X (Full) 指 (R)<br/>GM power setting 13</p></div> | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E, BAND4, N 3m HF, ANT, 160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 26<br/>IMEI : 00401115972989<br/>Plane : X (Full) 指 (R)<br/>GM power setting 13</p></div> |

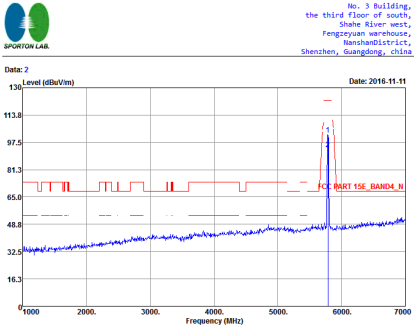
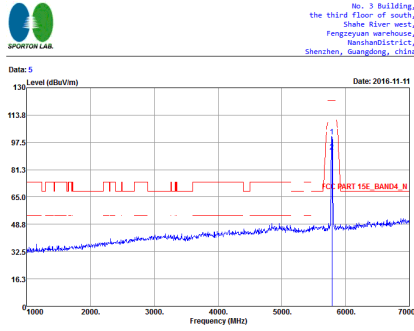


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz – L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Peak | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 1<br/>Level (dBuV/m)<br/>Date: 2016-11-11<br/>FCC PART 15E BAND 4 N<br/>Frequency (MHz)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND 4 N 3m HF ANT 160507 HORIZONTAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 27<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 [0]<br/>GM power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 4<br/>Level (dBuV/m)<br/>Date: 2016-11-11<br/>FCC PART 15E BAND 4 N<br/>Frequency (MHz)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND 4 N 3m HF ANT 160507 VERTICAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 27<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 [0]<br/>GM power setting 13</p></div> |

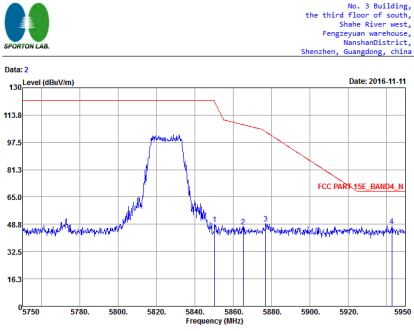
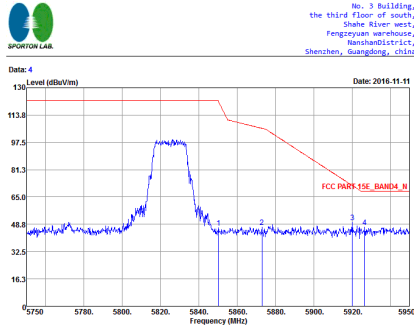


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH157 5785MHz – R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Peak | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 3<br/>Date: 2016-11-11</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4_N</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4_N 3m HF ANT_160507 HORIZONTAL<br/>REW: 1000.000kHz VBW: 3000.000kHz<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 27<br/>IMEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>GM power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 6<br/>Date: 2016-11-11</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4_N</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4_N 3m HF ANT_160507 VERTICAL<br/>REW: 1000.000kHz VBW: 3000.000kHz<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 27<br/>IMEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>GM power setting 13</p></div> |

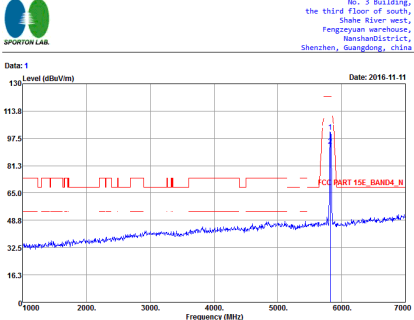
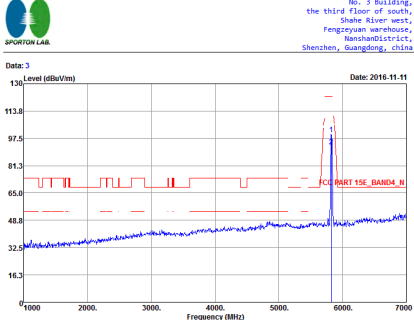


| WIFI         | Band 4 5725~5850MHz Fundamental @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH157 5785MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Peak<br>Avg. | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 2<br/>Date: 2016-11-11</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E, BAND4, N 3m HF ANT, 160507 HORIZONTAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 27<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>GM power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 5<br/>Date: 2016-11-11</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E, BAND4, N 3m HF ANT, 160507 VERTICAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 27<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>GM power setting 13</p></div> |

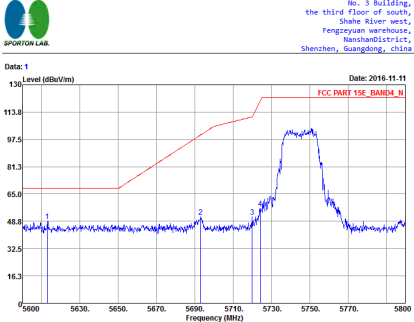
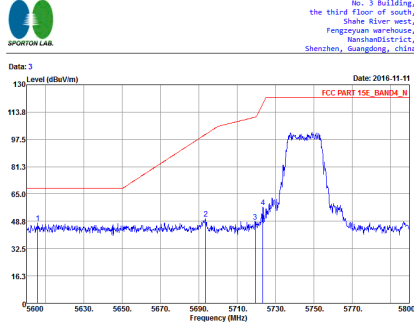


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH165 5825MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 2<br/>Date: 2016-11-11</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4 limit</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4 N 3m HF ANT 160507 HORIZONTAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 28<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>GM power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 4<br/>Date: 2016-11-11</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4 limit</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4 N 3m HF ANT 160507 VERTICAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 28<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>GM power setting 13</p></div> |

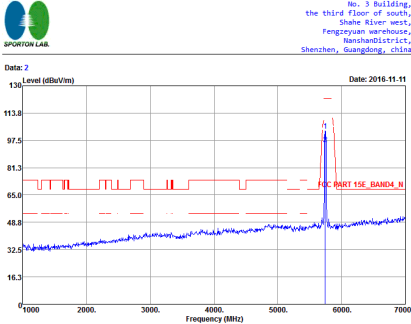
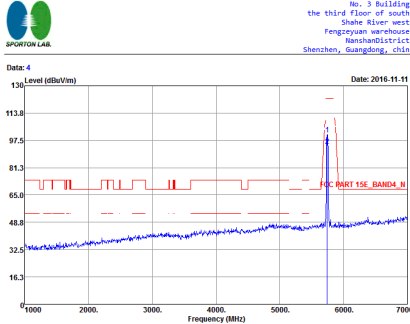


| WIFI         | Band 4 5725~5850MHz Fundamental @ 3m                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH165 5825MHz                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E, BAND4, N 3m HF, ANT, 160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 28<br/>IMEI : 00401115972989<br/>Plane : X (Full) 指 (R)<br/>GM power setting 13</p></div> | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E, BAND4, N 3m HF, ANT, 160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 28<br/>IMEI : 00401115972989<br/>Plane : X (Full) 指 (R)<br/>GM power setting 13</p></div> |

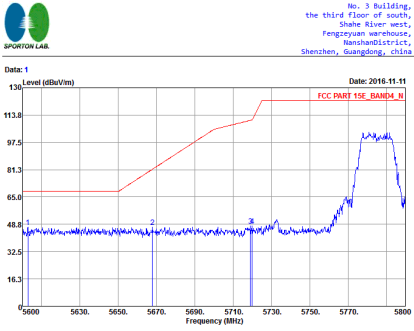
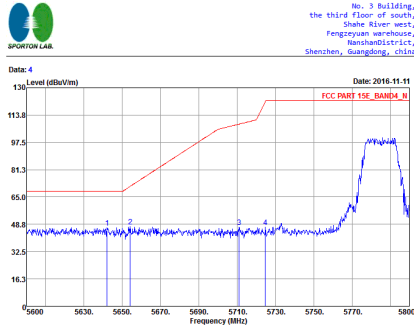
**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH149 5745MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Peak |  <p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengqiyuan warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, china</p> <p>Date: 2016-11-11</p> <p>Site : 03CH03-SZ<br/> Condition : FCC PART 15E BAND4_N 3m HF ANT_160507 HORIZONTAL<br/> Detector : Peak<br/> Project : FR 682304<br/> Mode : Mode 29<br/> MEI : 004401115972969<br/> Plane : X (Full) 3B (P)<br/> MCS0 power setting 13</p> |  <p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengqiyuan warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, china</p> <p>Date: 2016-11-11</p> <p>Site : 03CH03-SZ<br/> Condition : FCC PART 15E BAND4_N 3m HF ANT_160507 VERTICAL<br/> Detector : Peak<br/> Project : FR 682304<br/> Mode : Mode 29<br/> MEI : 004401115972969<br/> Plane : X (Full) 3B (P)<br/> MCS0 power setting 13</p> |

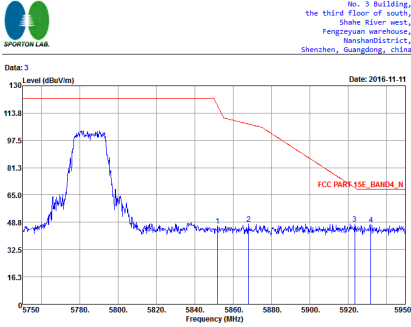
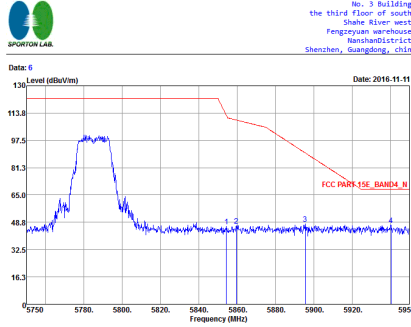


| WIFI         | Band 4 5725~5850MHz Fundamental @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH149 5745MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Peak<br>Avg. | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengzhuang warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, China</p><p>Date: 2<br/>Level (dBuV/m)<br/>Date: 2016-11-11</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>Detector : Peak<br/>Project : FR 682304<br/>Mode : Mode 29<br/>IMEI : 004401115972989<br/>Plane : X (Full) 38 R9<br/>Plane : MCS0 power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengzhuang warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, China</p><p>Date: 4<br/>Level (dBuV/m)<br/>Date: 2016-11-11</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>Detector : Peak<br/>Project : FR 682304<br/>Mode : Mode 29<br/>IMEI : 004401115972989<br/>Plane : X (Full) 38 R9<br/>Plane : MCS0 power setting 13</p></div> |

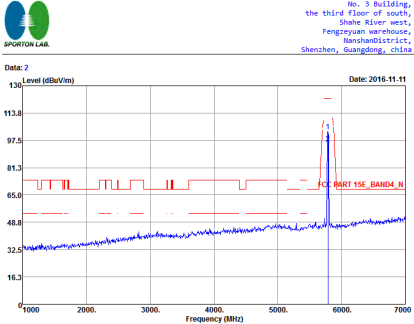
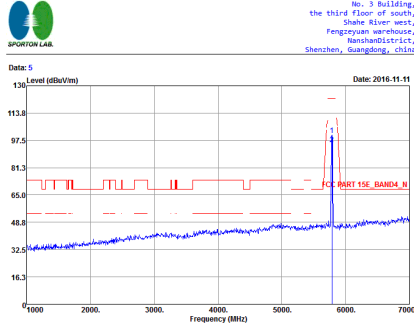


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH157 5785MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Peak | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 1<br/>Level (dBuV/m)<br/>Date: 2016-11-11<br/>FCC PART 15E BAND4_N<br/>Frequency (MHz)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4_N 3m HF ANT 160507 HORIZONTAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 30<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 [0]<br/>MCS0 power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 4<br/>Level (dBuV/m)<br/>Date: 2016-11-11<br/>FCC PART 15E BAND4_N<br/>Frequency (MHz)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4_N 3m HF ANT 160507 VERTICAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 30<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 [0]<br/>MCS0 power setting 13</p></div> |



| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH157 5785MHz - R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Peak | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Hanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 2016-11-11</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4_N</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4_N 3m HF ANT_160507 HORIZONTAL<br/>REW: 1000.000kHz VBW: 3000.000kHz<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 30<br/>IMEI : 004401115972989<br/>Plane : X (Full) 指 [R]<br/>MCSS power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Hanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 2016-11-11</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4_N</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4_N 3m HF ANT_160507 VERTICAL<br/>REW: 1000.000kHz VBW: 3000.000kHz<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 30<br/>IMEI : 004401115972989<br/>Plane : X (Full) 指 [R]<br/>MCSS power setting 13</p></div> |

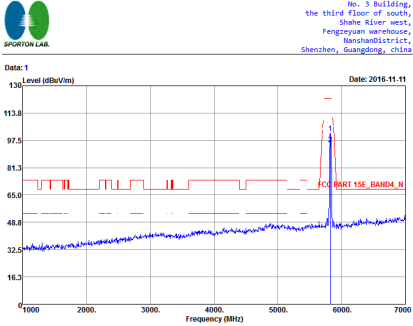
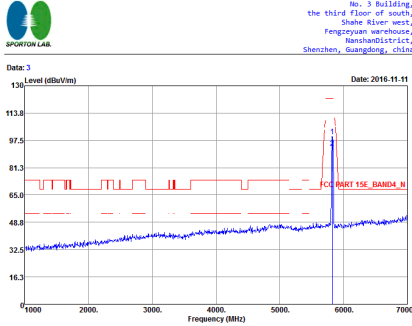


| WIFI         | Band 4 5725~5850MHz Fundamental @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH157 5785MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengzhen warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, China</p><p>Date: 2<br/>Level (dBuV/m)<br/>Date: 2016-11-11</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 30<br/>IMEI : 004401115972989<br/>Plane : X (Full) 30 R0<br/>Plane : MCS0 power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengzhen warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, China</p><p>Date: 5<br/>Level (dBuV/m)<br/>Date: 2016-11-11</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 30<br/>IMEI : 004401115972989<br/>Plane : X (Full) 30 R0<br/>Plane : MCS0 power setting 13</p></div> |



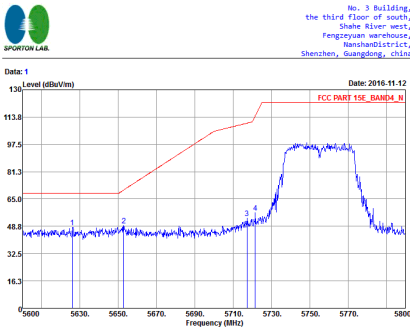
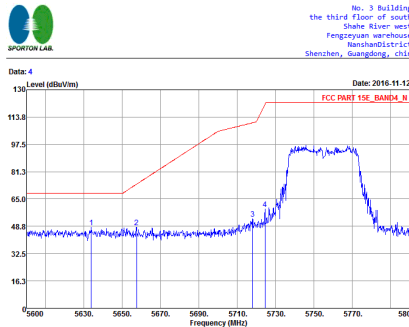
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH165 5825MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Peak | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 2<br/>Date: 2016-11-11</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4 N 3m HF ANT 160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 31<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>MCS0 power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 4<br/>Date: 2016-11-11</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4 N 3m HF ANT 160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 31<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>MCS0 power setting 13</p></div> |



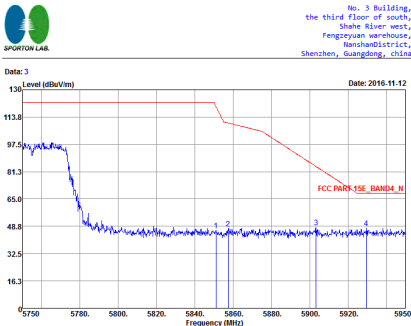
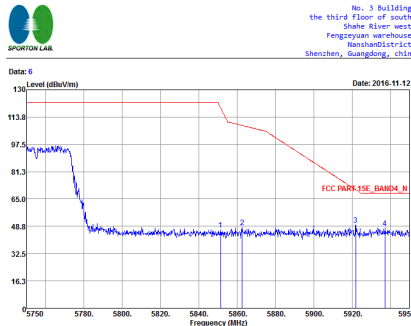
| WIFI         | Band 4 5725~5850MHz Fundamental @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH165 5825MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Peak<br>Avg. | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengzhen warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, China</p><p>Date: 1<br/>Level (dBuV/m)<br/>Date: 2016-11-11</p><p>Site<br/>Condition : 03CH03-SZ<br/>: FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz<br/>Detector : Peak<br/>Project : FRJ 682304<br/>Mode : Mode 31<br/>IMEI : 004401115972989<br/>Plane : X (Full) 28 R9<br/>: MCS0 power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengzhen warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, China</p><p>Date: 3<br/>Level (dBuV/m)<br/>Date: 2016-11-11</p><p>Site<br/>Condition : 03CH03-SZ<br/>: FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz<br/>Detector : Peak<br/>Project : FRJ 682304<br/>Mode : Mode 31<br/>IMEI : 004401115972989<br/>Plane : X (Full) 28 R9<br/>: MCS0 power setting 13</p></div> |



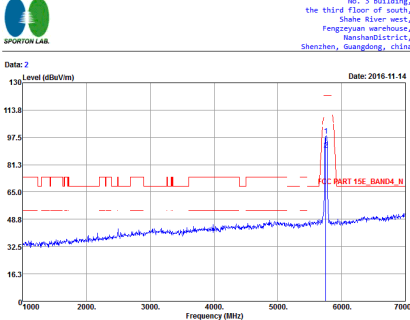
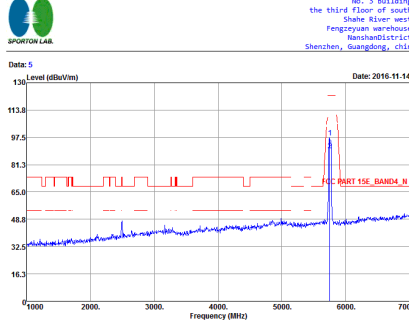
Band 4 5725~5850MHz  
WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH151 5755MHz - L                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                               |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                                                                                                                      |
| Peak | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz<br/>Project : Peak<br/>Mode : (FR) 682304<br/>IMEI : 004401115972989<br/>Plane : X (Full) 3B (R)<br/>MCS9 power setting 13</p></div> | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz<br/>Project : Peak<br/>Mode : (FR) 682304<br/>IMEI : 004401115972989<br/>Plane : X (Full) 3B (R)<br/>MCS9 power setting 13</p></div> |

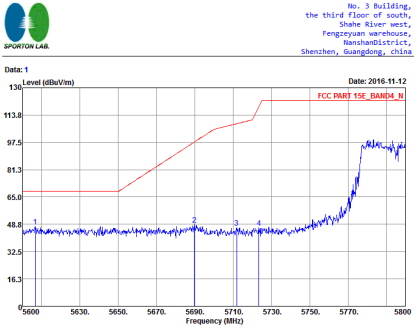
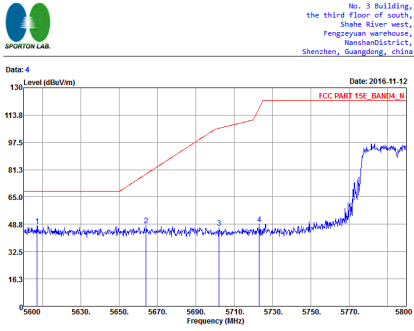


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH151 5755MHz - R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Peak | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Hanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 3<br/>Level (dBuV/m)<br/>Date: 2016-11-12</p><p>FCC PART 15E, BAND4, N</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E, BAND4, N 3m HF, ANT_160507 HORIZONTAL<br/>REW: 1000.000kHz VBW: 3000.000kHz<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 32<br/>IMEI : 004401115972989<br/>Plane : X (Full) 指 [R]<br/>MCSS power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Hanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 6<br/>Level (dBuV/m)<br/>Date: 2016-11-12</p><p>FCC PART 15E, BAND4, N</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E, BAND4, N 3m HF, ANT_160507 VERTICAL<br/>REW: 1000.000kHz VBW: 3000.000kHz<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 32<br/>IMEI : 004401115972989<br/>Plane : X (Full) 指 [R]<br/>MCSS power setting 13</p></div> |



| WIFI         | Band 4 5725~5850MHz Fundamental @ 3m                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH151 5755MHz                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                            |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF ANT_160507 HORIZONTAL<br/>REW: 1000.000kHz VBW: 3000.000kHz<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 32<br/>IMEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>MCS0 power setting 13</p></div> | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF ANT_160507 VERTICAL<br/>REW: 1000.000kHz VBW: 3000.000kHz<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 32<br/>IMEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>MCS0 power setting 13</p></div> |

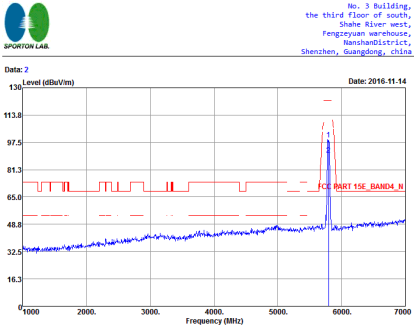
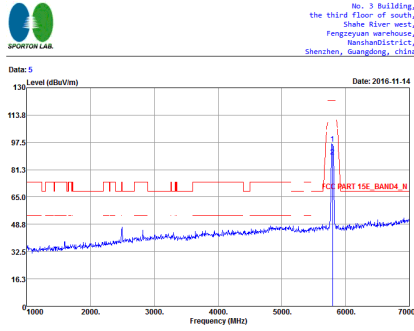


| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH159 5795MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Peak | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 1<br/>Date: 2016-11-12</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4_N</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4_N 3m HF ANT 160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 33<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>MCS0 power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 4<br/>Date: 2016-11-12</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4_N</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4_N 3m HF ANT 160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 33<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>MCS0 power setting 13</p></div> |



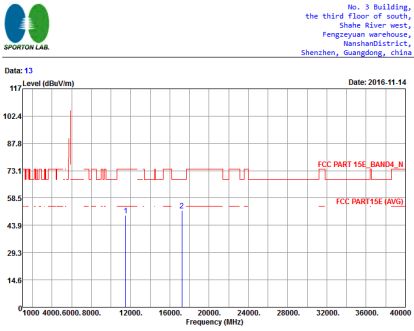
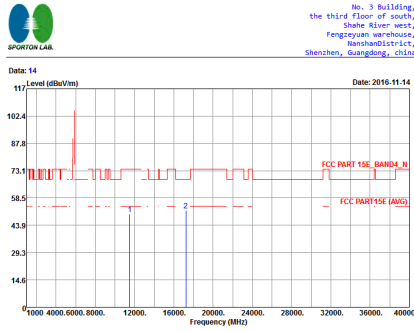
| WIFI | Band 4 5725~5850MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH159 5795MHz - R                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Peak | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 3<br/>Date: 2016-11-12</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4 N 3m HF ANT 160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 33<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>MCSO power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 6<br/>Date: 2016-11-12</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E BAND4 N 3m HF ANT 160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 33<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>MCSO power setting 13</p></div> |



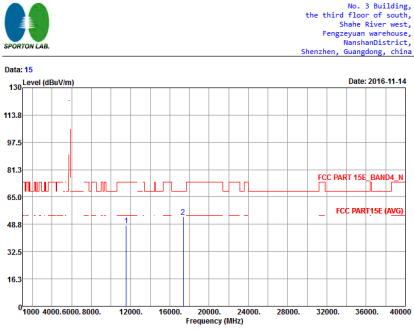
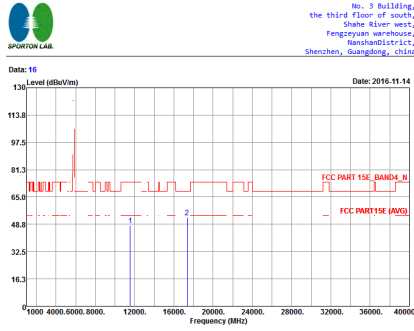
| WIFI         | Band 4 5725~5850MHz Fundamental @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH159 5795MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Peak<br>Avg. | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 2<br/>Date: 2016-11-14</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E, BAND4, N 3m HF ANT, 160507 HORIZONTAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 33<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (H)<br/>MCSO power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 5<br/>Date: 2016-11-14</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E, BAND4, N 3m HF ANT, 160507 VERTICAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 33<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (V)<br/>MCSO power setting 13</p></div> |



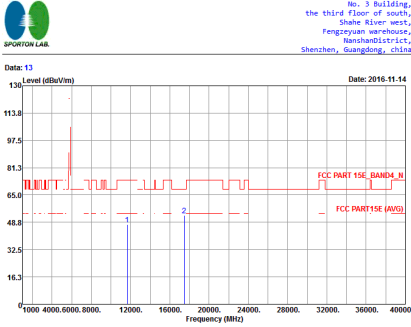
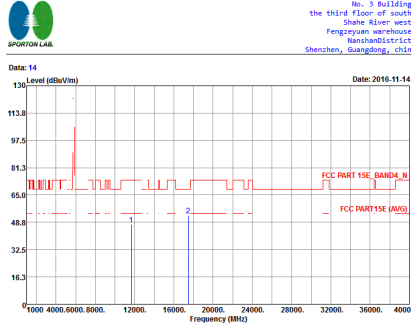
Band 4 - 5725~5850MHz  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                             |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH149 5745MHz                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                                                                                    |
| Peak<br>Avg. | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 26<br/>IMEI : 004401115972989<br/>Plane : X (Full) 30 (R)<br/>Plane : GM power setting 13</p></div> | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 26<br/>IMEI : 004401115972989<br/>Plane : X (Full) 30 (R)<br/>Plane : GM power setting 13</p></div> |



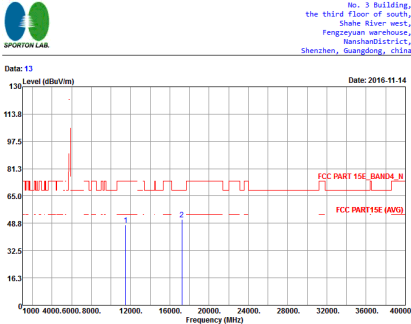
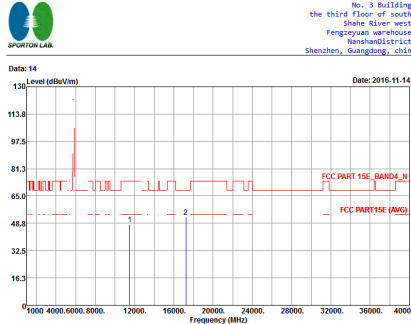
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH157 5785MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Peak<br>Avg. | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 15<br/>Date: 2016-11-14</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4_N</p><p>FCC PART 15E (AVG)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 27<br/>IMEI : 004401115972989<br/>Plane : X (Full) 3B (P)<br/>GM power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 16<br/>Date: 2016-11-14</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>FCC PART 15E BAND4_N</p><p>FCC PART 15E (AVG)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 27<br/>IMEI : 004401115972989<br/>Plane : X (Full) 3B (P)<br/>GM power setting 13</p></div> |



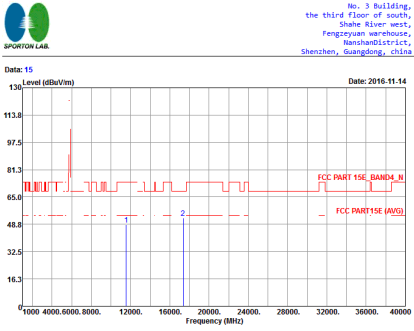
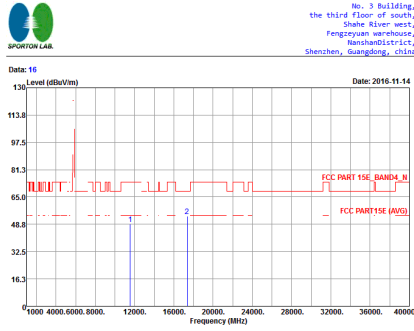
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH165 5825MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Peak<br>Avg. | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 2016-11-14</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 28<br/>MEI : 004401115972989<br/>Plane : X (Full) 指内<br/>GM power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 2016-11-14</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>Detector : Peak<br/>Project : FR682304<br/>Mode : Mode 28<br/>MEI : 004401115972989<br/>Plane : X (Full) 指内<br/>GM power setting 13</p></div> |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



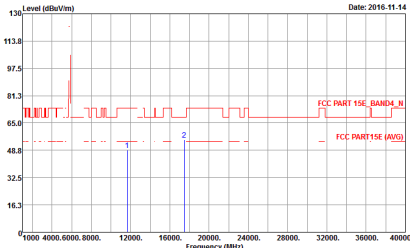
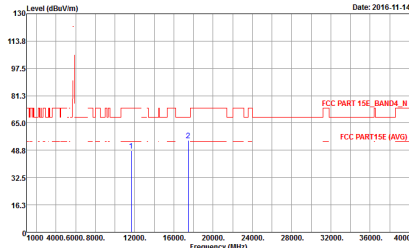
Band 4 5725~5850MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH149 5745MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Peak<br>Avg. | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengqiyuan warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, China</p><p>Date: 13<br/>Level (dBm/100MHz)<br/>Date: 2016-11-14</p><p>FCC PART 15E BAND4_N<br/>FCC PART 15E (AVG)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 29<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>MCS0 power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengqiyuan warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, China</p><p>Date: 14<br/>Level (dBm/100MHz)<br/>Date: 2016-11-14</p><p>FCC PART 15E BAND4_N<br/>FCC PART 15E (AVG)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 29<br/>MEI : 004401115972989<br/>Plane : X (Full) 指 (R)<br/>MCS0 power setting 13</p></div> |



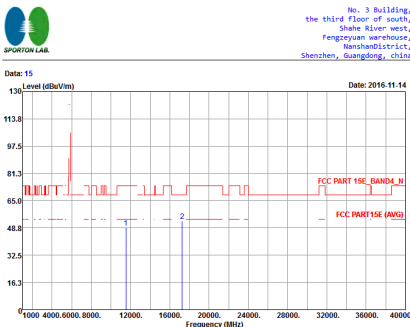
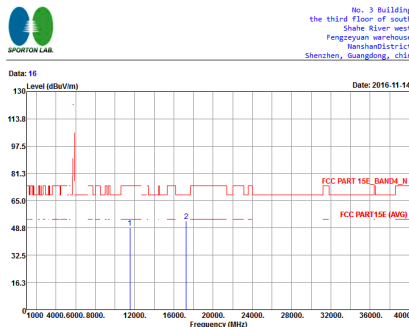
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH157 5785MHz                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 30<br/>IMEI : 004401115972989<br/>Plane : X (Full) TB (R)<br/>MCS0 power setting 13</p></div> | <div><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 30<br/>IMEI : 004401115972989<br/>Plane : X (Full) TB (R)<br/>MCS0 power setting 13</p></div> |



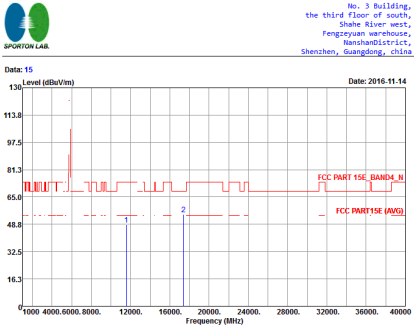
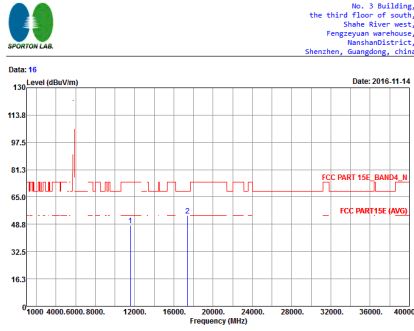
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH165 5825MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Peak<br>Avg. | <div><p> No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Hanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 13 Date: 2016-11-14</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 31<br/>MEI : 004401115972989<br/>Plane : X (Full) 指内<br/>MCS0 power setting 13</p></div> | <div><p> No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Hanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 14 Date: 2016-11-14</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 31<br/>MEI : 004401115972989<br/>Plane : X (Full) 指内<br/>MCS0 power setting 13</p></div> |



Band 4 5725~5850MHz  
WIFI 802.11n HT40 (Harmonic @ 3m)

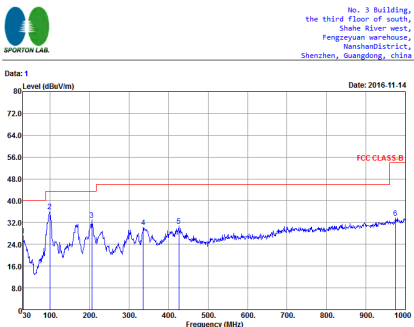
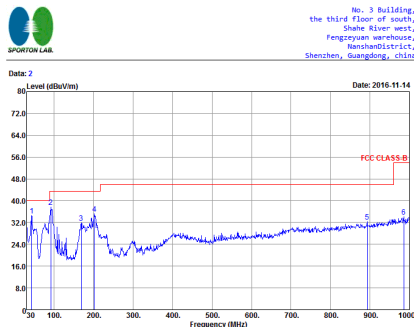
| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH151 5755MHz                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>Site : 03CM03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160567 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 32<br/>IMEI : 004401115972969<br/>Plane : X (Full) 15 (P)<br/>MCS0 power setting 13</p></div> | <div><p>Site : 03CM03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160567 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 32<br/>IMEI : 004401115972969<br/>Plane : X (Full) 15 (P)<br/>MCS0 power setting 13</p></div> |



| WIFI         | Band 4 5725~5850MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH159 5795MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 15<br/>Date: 2016-11-14</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 33<br/>IMEI : 004401115972989<br/>Plane : X (Full) 18 (R)<br/>MCS0 power setting 13</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengze Yuan warehouse,<br/>Nanshan District,<br/>Shenzhen, Guangdong, China</p><p>Date: 16<br/>Date: 2016-11-14</p><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH03-SZ<br/>Condition : FCC PART 15E_BAND4_N 3m HF_ANT_160507 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 33<br/>IMEI : 004401115972989<br/>Plane : X (Full) 18 (R)<br/>MCS0 power setting 13</p></div> |



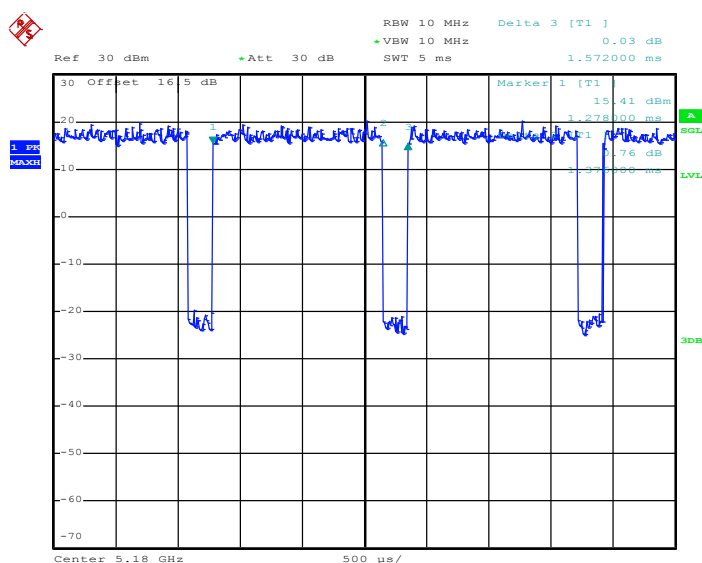
Emission below 1GHz  
5GHz WIFI 802.11n HT20 (LF)

| WIFI         | 5GHz 5725~5850MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 LF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| QP /<br>Peak | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengqiyuan warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, China</p><p>Date: 1<br/>Date: 2016.11.14</p><p>Site : 03CH03-SZ<br/>Condition : FCC CLASS-B 3m LF35408CBL6112D_6 HORIZONTAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 31<br/>IMEI : 004401115972989<br/>Plane : X (Full) 指向</p></div> | <div><p>No. 3 Building,<br/>the third floor of south,<br/>Shahe River west,<br/>Fengqiyuan warehouse,<br/>NanshanDistrict,<br/>Shenzhen, Guangdong, China</p><p>Date: 2<br/>Date: 2016.11.14</p><p>Site : 03CH03-SZ<br/>Condition : FCC CLASS-B 3m LF35408CBL6112D_6 VERTICAL<br/>Detector : Peak<br/>Project : (FR) 682304<br/>Mode : Mode 31<br/>IMEI : 004401115972989<br/>Plane : X (Full) 指向</p></div> |

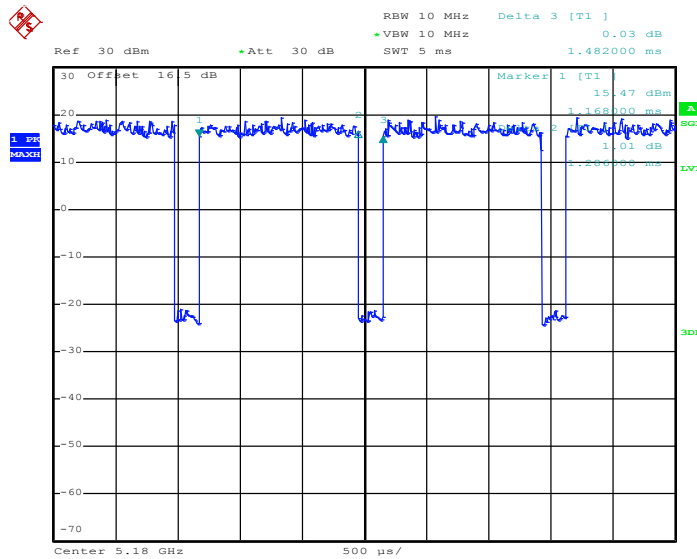
## Appendix D. Duty Cycle Plots

| Band              | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|-------------------|---------------|-------|----------|-------------|
| 802.11a           | 87.53         | 1.38  | 0.73     | 1KHz        |
| 5GHz 802.11n HT20 | 86.77         | 1.29  | 0.78     | 1KHz        |
| 5GHz 802.11n HT40 | 75.83         | 0.64  | 1.56     | 3KHz        |

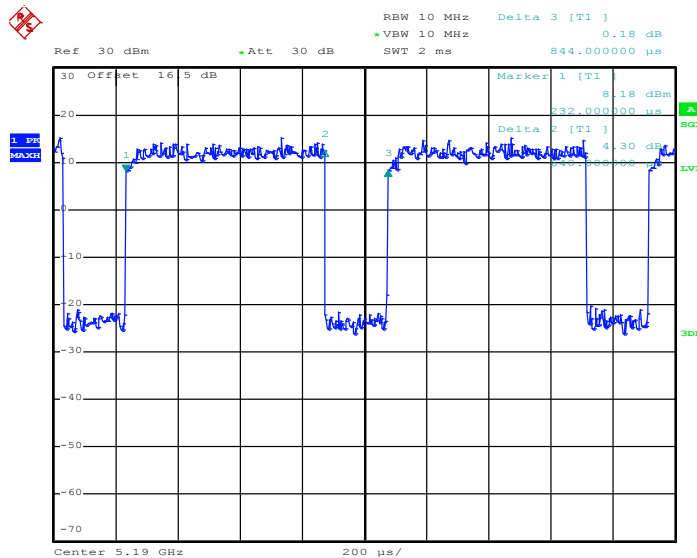
### 802.11a



Date: 7.NOV.2016 15:28:33

**802.11n HT20**


Date: 7.NOV.2016 15:38:19

**802.11n HT40**


Date: 7.NOV.2016 15:43:18