

# FCC C2PC RF Test Report

**Reference No.**..... : WTD22D04074030W001  
**FCC ID** ..... : ZLZ-PMACS  
**Applicant**..... : Shenzhen Mindray BIO-Medical electronics Co.,LTD.  
**Address**..... : Mindray Building ,Keji 12th Road South,Hi-tech Ind, Shenzhen  
China  
**Brand Name**..... : Mindray  
**Product**..... : Embedded wireless module  
**Model(s)** ..... : SX-SDMAC-2832S+  
**Standards**..... : FCC CFR47 Part 15.247  
FCC CFR47 Part 15.407  
**Date of Receipt sample** .... : 2022-04-20  
**Date of Test** ..... : 2022-04-21 to 2022-05-10  
**Date of Issue**..... : 2023-03-27  
**Test Result**..... : **Pass**

**Remarks:**

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

**Prepared By:**  
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## 2 Contents

|                                                   | Page      |
|---------------------------------------------------|-----------|
| <b>1 COVER PAGE.....</b>                          | <b>1</b>  |
| <b>2 CONTENTS.....</b>                            | <b>2</b>  |
| <b>3 REVISION HISTORY.....</b>                    | <b>3</b>  |
| <b>4 GENERAL INFORMATION.....</b>                 | <b>4</b>  |
| 4.1 GENERAL DESCRIPTION OF E.U.T. ....            | 4         |
| 4.2 DETAILS OF E.U.T.....                         | 4         |
| 4.3 TEST FACILITY .....                           | 5         |
| 4.4 SUBCONTRACTED.....                            | 5         |
| 4.5 ABNORMALITIES FROM STANDARD CONDITIONS .....  | 5         |
| 4.6 CHANNEL LIST.....                             | 6         |
| 4.7 TEST MODE .....                               | 9         |
| <b>5 TEST SUMMARY .....</b>                       | <b>10</b> |
| <b>6 EQUIPMENT USED DURING TEST .....</b>         | <b>11</b> |
| 6.1 EQUIPMENTS LIST .....                         | 11        |
| 6.2 DESCRIPTION OF SUPPORT UNITS .....            | 11        |
| 6.3 MEASUREMENT UNCERTAINTY .....                 | 11        |
| 6.4 TEST EQUIPMENT CALIBRATION .....              | 11        |
| <b>7 RADIATED EMISSIONS .....</b>                 | <b>12</b> |
| 7.1 EUT OPERATION.....                            | 12        |
| 7.2 TEST SETUP .....                              | 13        |
| 7.3 SPECTRUM ANALYZER SETUP .....                 | 14        |
| 7.4 TEST PROCEDURE.....                           | 15        |
| 7.5 CORRECTED AMPLITUDE & MARGIN CALCULATION..... | 15        |
| 7.6 SUMMARY OF TEST RESULTS.....                  | 16        |
| <b>8 PHOTOGRAPHS OF TEST SETUP AND EUT.....</b>   | <b>61</b> |

### 3 Revision History

| Test Report No.    | Date of Receipt Sample | Date of Test                   | Date of Issue | Purpose  | Comment | Approved |
|--------------------|------------------------|--------------------------------|---------------|----------|---------|----------|
| WTD22D04074030W001 | 2022-04-20             | 2022-04-21<br>to<br>2022-05-10 | 2023-03-27    | Original | -       | Valid    |

## 4 General Information

This report is prepared for FCC Class II Permissive Change, add three optional antennas.

| Ant.                         | Type          | Operation Frequencies (MHz) /Antenna Gain (dBi) |           |           |           |           |
|------------------------------|---------------|-------------------------------------------------|-----------|-----------|-----------|-----------|
|                              |               | 2412~2462                                       | 5150~5250 | 5250~5350 | 5470~5725 | 5725~5850 |
| Optional 1<br>RD542109NB86-1 | FPC<br>diploe | -0.95                                           | 0.50      | 0.98      | 2.59      | 3.29      |
| Optional 2<br>RD542109NB86-2 | FPC<br>diploe | 2.05                                            | 1.29      | 1.45      | 3.06      | 3.17      |
| Optional 3<br>RD542109NB86-3 | FPC<br>diploe | 1.80                                            | 0.70      | 1.07      | 2.12      | 2.77      |

**Note:** please refer to antenna specification for more details.

### 4.1 General Description of E.U.T.

Product: Embedded wireless module  
 Model(s): SX-SDMAC-2832S+  
 Model Description: N/A

### 4.2 Details of E.U.T.

Ratings: 3.3V DC from mainboard  
 Operation Frequency: 2.4G  
 802.11b/g/n (HT20), 2412-2462MHz 11CH  
 802.11n (HT40), 2422-2452MHz 7CH  
 U-NII-1  
 802.11a/n(HT20)/ac(HT20), 5180-5240MHz 4CH  
 802.11n(HT40)/ac(HT40), 5190-5230MHz 2CH  
 802.11ac(HT80), 5210MHz 1CH  
 U-NII-2A  
 802.11a/n(HT20)/ac(HT20), 5260-5320MHz 4CH  
 802.11n(HT40)/ac(HT40), 5270-5310MHz 2CH  
 802.11ac(HT80), 5290MHz 1CH  
 U-NII-2C  
 802.11a/n(HT20)/ac(HT20), 5500-5700MHz 11CH  
 802.11n(HT40)/ac(HT40), 5510-5670MHz 5CH  
 802.11ac(HT80), 5530MHz, 5610MHz 2CH  
 U-NII-3  
 802.11a/n(HT20)/ac(HT20), 5745-5825MHz 5CH  
 802.11n(HT40)/ac(HT40), 5755-5795MHz 2CH  
 802.11ac(HT80), 5775MHz 1CH  
 Modulation Type: 802.11b: DBPSK, DQPSK, CCK  
 802.11a/g: OFDM(BPSK, QPSK, 16QAM, 64QAM)  
 802.11n: OFDM(BPSK, QPSK, 16QAM, 64QAM)  
 802.11ac: OFDM(BPSK, QPSK, 16QAM, 64QAM, 256QAM)  
 DFS Function: Slave without radar detection  
 TPC Function: Not support

### 4.3 Test Facility

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

**ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.**

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

**FCC Designation No.: CN1201. Test Firm Registration No.: 523476.**

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

### 4.4 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes.....☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

### 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Channel List

### 2.4G Wi-Fi

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 1           | 2412            | 2           | 2417            | 3           | 2422            | 4           | 2427            |
| 5           | 2432            | 6           | 2437            | 7           | 2442            | 8           | 2447            |
| 9           | 2452            | 10          | 2457            | 11          | 2462            | 12          | -               |

### 5G Wi-Fi

| U-NII-1 (5.15-5.25GHz) |                |         |                |
|------------------------|----------------|---------|----------------|
| channel                | Frequency(MHz) | channel | Frequency(MHz) |
| 36                     | 5180           | 38      | 5190           |
| 40                     | 5200           | 42      | 5210           |
| 44                     | 5220           | 46      | 5230           |
| 48                     | 5240           | 50      | 5250           |

| U-NII-2A (5.25-5.35GHz) |                |         |                |
|-------------------------|----------------|---------|----------------|
| channel                 | Frequency(MHz) | channel | Frequency(MHz) |
| 52                      | 5260           | 54      | 5270           |
| 56                      | 5280           | 58      | 5290           |
| 60                      | 5300           | 62      | 5310           |
| 64                      | 5320           |         |                |

| U-NII-2C (5.47-5.725GHz) |                |         |                |
|--------------------------|----------------|---------|----------------|
| channel                  | Frequency(MHz) | channel | Frequency(MHz) |
| 100                      | 5500           | 102     | 5510           |
| 104                      | 5520           | 108     | 5540           |
| 110                      | 5550           | 112     | 5560           |
| 114                      | 5570           | 116     | 5580           |
| 118                      | 5590           | 120     | 5600           |
| 124                      | 5620           | 126     | 5630           |
| 128                      | 5640           | 132     | 5660           |
| 134                      | 5670           | 136     | 5680           |
| 140                      | 5700           |         |                |

| U-NII-3 (5.725-5.85GHz) |                |         |                |
|-------------------------|----------------|---------|----------------|
| channel                 | Frequency(MHz) | channel | Frequency(MHz) |
| 149                     | 5745           | 151     | 5755           |
| 153                     | 5765           | 155     | 5775           |
| 157                     | 5785           | 159     | 5795           |
| 161                     | 5805           | 165     | 5825           |

| Overlapping channels |                |         |                |
|----------------------|----------------|---------|----------------|
| channel              | Frequency(MHz) | channel | Frequency(MHz) |
| 138                  | 5690           | 142     | 5710           |
| 144                  | 5720           |         |                |

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n HT20:

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 36      | 5180           | 40      | 5200           |
| 48      | 5240           |         |                |

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 52      | 5260           | 56      | 5280           |
| 64      | 5320           |         |                |

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 100     | 5500           | 120     | 5600           |
| 140     | 5700           |         |                |

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 144     | 5720           |         |                |

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 149     | 5745           | 157     | 5785           |
| 165     | 5825           |         |                |

For 802.11n/ac(HT40)/ ac(HT80):

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 38      | 5190           | 42      | 5210           |
| 46      | 5230           |         |                |

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 54      | 5270           | 58      | 5290           |
| 62      | 5310           |         |                |

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 102     | 5510           | 106     | 5530           |
| 110     | 5550           | 134     | 5670           |

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 138     | 5690           | 142     | 5710           |

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 151     | 5755           | 155     | 5775           |
| 159     | 5795           |         |                |

For 802.11ac(HT80):

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 50      | 5250           | 114     | 5570           |

#### 4.7 Test Mode

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Transmitting duty cycle is no less 98%.

Tests Carried Out Under FCC part 15.247

| Test Items                     | Mode         | Data Rate | Channel | TX/RX |
|--------------------------------|--------------|-----------|---------|-------|
| Transmitter Spurious Emissions | 802.11b      | 1 Mbps    | 1/6/11  | TX    |
|                                | 802.11g      | 6 Mbps    | 1/6/11  | TX    |
|                                | 802.11n HT20 | MCS0      | 1/6/11  | TX    |

Tests Carried Out Under FCC part 15.407

| Test Items                     | Mode                     | Data Rate | Channel   | TX/RX |
|--------------------------------|--------------------------|-----------|-----------|-------|
| Transmitter Spurious Emissions | 802.11a                  | 6 Mbps    | Refer 4.6 | TX    |
|                                | 802.11n<br>(HT20/40)     | MCS0      | Refer 4.6 | TX    |
|                                | 802.11ac(HT20/<br>40/80) |           |           |       |
|                                | 802.11ac(HT80<br>+ HT80) |           |           |       |

**Note:** Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product.

## 5 Test Summary

| Test Items                  | Test Requirement                              | Result |
|-----------------------------|-----------------------------------------------|--------|
| Radiated Spurious Emissions | 15.247(d)<br>15.205(a)<br>15.209(a)<br>15.407 | PASS   |

## 6 Equipment Used during Test

### 6.1 Equipments List

| 3m Semi-anechoic Chamber for Radiation Emissions Test site 1# |                           |                       |             |            |                |       |
|---------------------------------------------------------------|---------------------------|-----------------------|-------------|------------|----------------|-------|
| Item                                                          | Equipment                 | Manufacturer          | Model No.   | Serial No. | Last Cal. Date | Valid |
| 1                                                             | Spectrum Analyzer         | R&S                   | FSP30       | 100091     | 2022-04-19     | 1Year |
| 2                                                             | Amplifier                 | Agilent               | 8447D       | 2944A10178 | 2021-07-26     | 1Year |
| 3                                                             | Tri-log Broadband Antenna | SCHWARZBECK           | VULB9163    | 336        | 2021-08-23     | 1Year |
| 4                                                             | Coaxial Cable             | Top                   | TYPE16(13M) | -          | 2022-04-19     | 1Year |
| 5                                                             | Broad-band Horn Antenna   | SCHWARZBECK           | BBHA 9120 D | 667        | 2022-03-29     | 1Year |
| 6                                                             | Broad-band Horn Antenna   | SCHWARZBECK           | BBHA 9170   | 335        | 2021-07-30     | 1Year |
| 7                                                             | Amplifier                 | COMPLIANCE            | PAP-1G18    | 2004       | 2021-07-26     | 1Year |
| 8                                                             | Coaxial Cable             | ZT26-NJ-NJ-8M/FA      | 1GHz-18GHz  | NA         | 2022-04-19     | 1Year |
| 9                                                             | Amplifier                 | SCHWARZBECK           | BBV 9721    | 100472     | 2021-07-30     | 1Year |
| 10                                                            | Coaxial Cable             | ZT40-2.92J-2.92J-2.0M | 10MHz-40GHz | 17100919   | 2022-04-19     | 1Year |
| 3m Semi-anechoic Chamber for Radiation Emissions Test site 2# |                           |                       |             |            |                |       |
| Item                                                          | Equipment                 | Manufacturer          | Model No.   | Serial No. | Last Cal. Date | Valid |
| 1                                                             | Test Receiver             | R&S                   | ESCI        | 101296     | 2022-04-19     | 1Year |
| 2                                                             | Tri-log Broadband Antenna | SCHWARZBECK           | VULB9160    | 9160-3325  | 2021-10-29     | 1Year |
| 3                                                             | Active Loop Antenna       | Com-Power Corp.       | AL-130R     | 10160007   | 2022-03-29     | 1Year |
| 4                                                             | Amplifier                 | ANRITSU               | MH648A      | M43381     | 2022-04-19     | 1Year |
| 5                                                             | Cable                     | HUBER+SUHNER          | CBL2        | 525178     | 2022-04-19     | 1Year |

### 6.2 Description of Support Units

| Equipment | Manufacturer | Model No. | Series No. |
|-----------|--------------|-----------|------------|
| /         | /            | /         | /          |

### 6.3 Measurement Uncertainty

| Parameter                                       | Uncertainty                             |
|-------------------------------------------------|-----------------------------------------|
| Conducted Emission                              | ± 3.64 dB(AC mains 150KHz~30MHz)        |
| Radiated Spurious Emissions                     | ± 5.08 dB (Bilog antenna 30M~1000MHz)   |
|                                                 | ± 5.47 dB (Horn antenna 1000M~25000MHz) |
| Radio Frequency                                 | ± 1 x 10 <sup>-7</sup> Hz               |
| RF Power                                        | ± 0.42 dB                               |
| RF Power Density                                | ± 0.7dB                                 |
| Conducted Spurious Emissions                    | ± 2.76 dB (9kHz~26500MHz)               |
| Confidence interval: 95%. Confidence factor:k=2 |                                         |

### 6.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

Waltek Testing Group Co., Ltd.  
<http://www.waltek.com.cn>

## 7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247&15.407

Test Method: ANSI C63.10:2013

Test Result: PASS

Measurement Distance: 3m

Limit:

| Frequency<br>(MHz) | Field Strength |                 | Field Strength Limit at 3m Measurement Dist |                                |
|--------------------|----------------|-----------------|---------------------------------------------|--------------------------------|
|                    | uV/m           | Distance<br>(m) | uV/m                                        | dBuV/m                         |
| 0.009 ~ 0.490      | 2400/F(kHz)    | 300             | 10000 * 2400/F(kHz)                         | $20\log^{(2400/F(kHz))} + 80$  |
| 0.490 ~ 1.705      | 24000/F(kHz)   | 30              | 100 * 24000/F(kHz)                          | $20\log^{(24000/F(kHz))} + 40$ |
| 1.705 ~ 30         | 30             | 30              | 100 * 30                                    | $20\log^{(30)} + 40$           |
| 30 ~ 88            | 100            | 3               | 100                                         | $20\log^{(100)}$               |
| 88 ~ 216           | 150            | 3               | 150                                         | $20\log^{(150)}$               |
| 216 ~ 960          | 200            | 3               | 200                                         | $20\log^{(200)}$               |
| Above 960          | 500            | 3               | 500                                         | $20\log^{(500)}$               |

### 7.1 EUT Operation

Operating Environment:

Temperature: 21.5 °C

Humidity: 49.9 % RH

Atmospheric Pressure: 101.2kPa

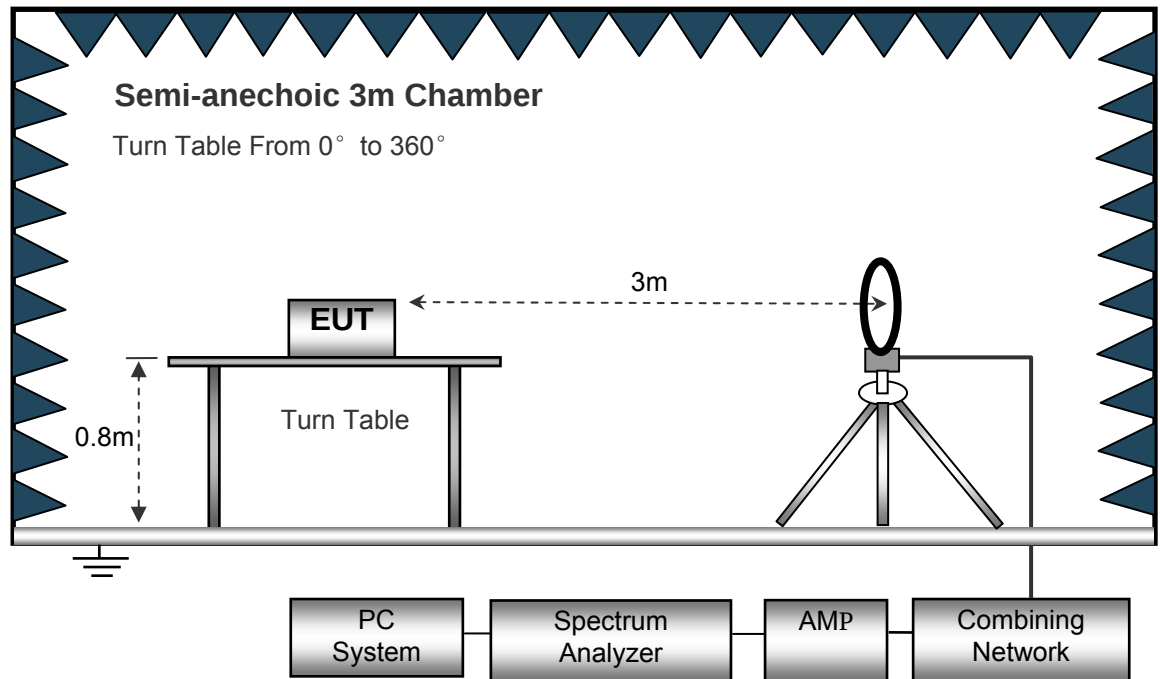
EUT Operation:

The test was performed in TX transmitting mode, the test data were shown in the report.

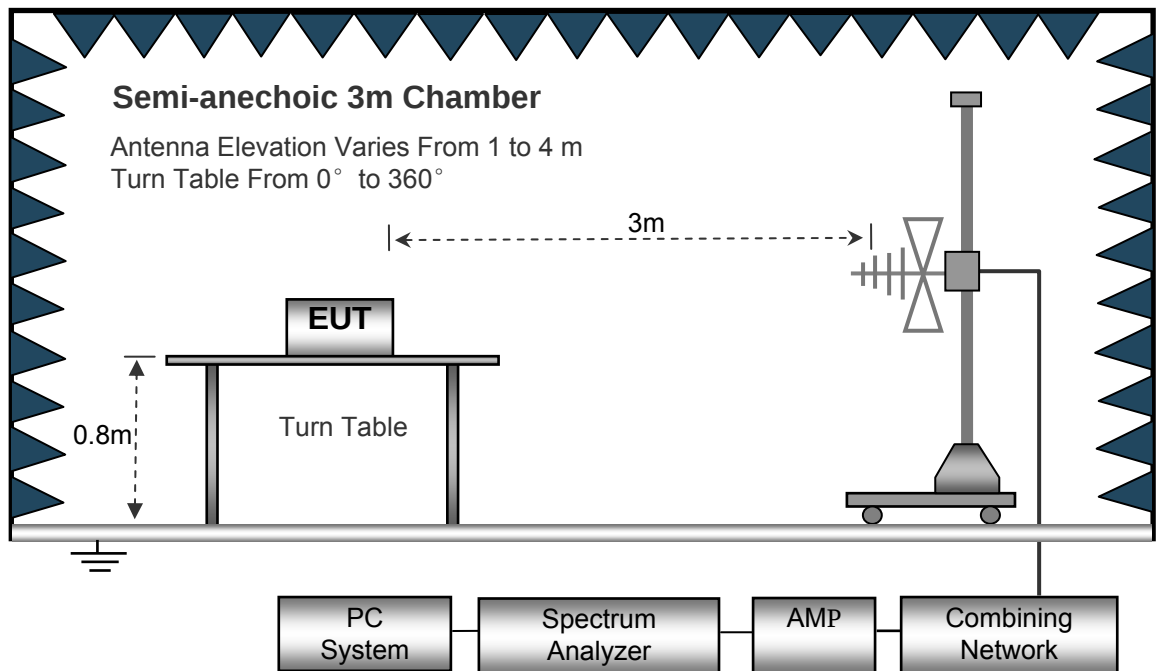
## 7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

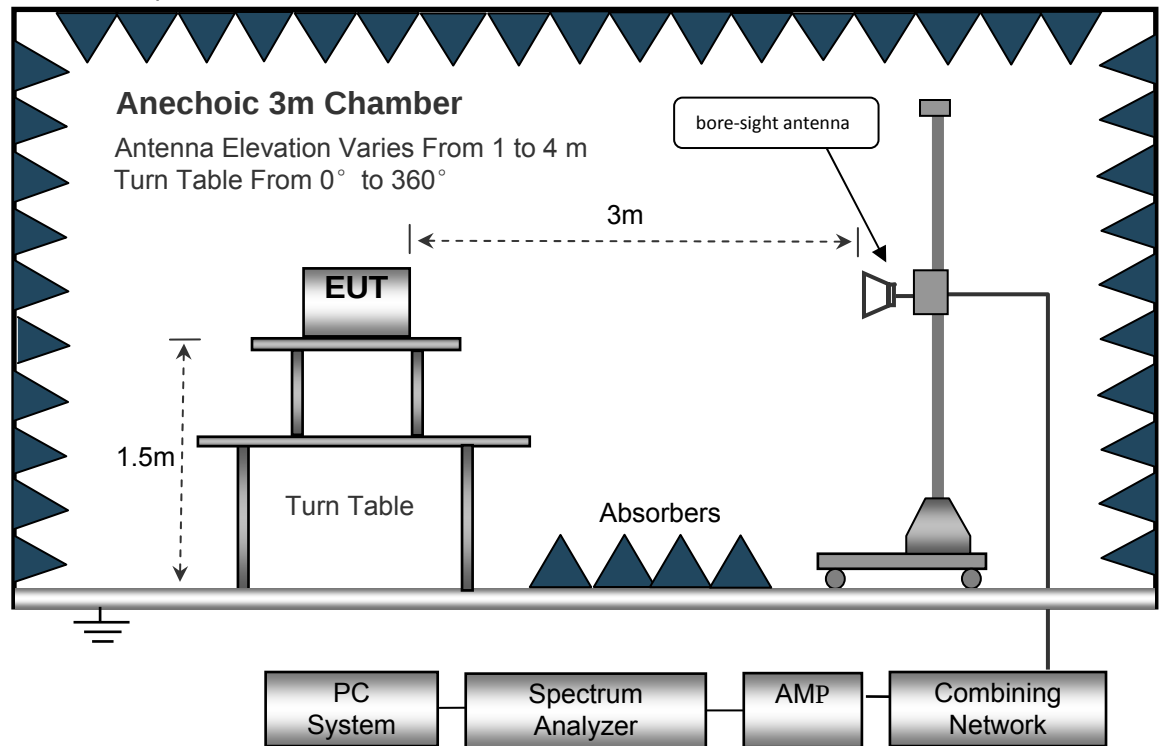
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed ..... Auto  
IF Bandwidth..... 10kHz  
Video Bandwidth..... 10kHz  
Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

Sweep Speed ..... Auto  
Detector ..... PK  
Resolution Bandwidth..... 100kHz  
Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed ..... Auto  
Detector ..... PK  
Resolution Bandwidth..... 1MHz  
Video Bandwidth..... 3MHz  
Detector ..... Ave.  
Resolution Bandwidth..... 1MHz  
Video Bandwidth..... 10Hz

## 7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X, Y and Z axis positioning (X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used druing radiated emissions above 1GHz measurement.

## 7.5 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

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

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

## 7.6 Summary of Test Results

### Optional antenna 1

#### Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

#### 2.4G Wi-Fi

All models have been tested, and only the worst-case (11b mode) was showed in the report.

#### Test Frequency: 30MHz ~ 18GHz

| Frequency                | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|--------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                          |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                    | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 11b: Low Channel 2412MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                   | 36.08            | QP          | 110              | 1.7        | H     | -11.62           | 24.46               | 46.00    | -21.54 |
| 223.45                   | 28.89            | QP          | 132              | 1.4        | V     | -11.62           | 17.27               | 46.00    | -28.73 |
| 4824.00                  | 48.19            | PK          | 14               | 1.3        | V     | -1.06            | 47.13               | 74.00    | -26.87 |
| 4824.00                  | 43.27            | Ave         | 14               | 1.3        | V     | -1.06            | 42.21               | 54.00    | -11.79 |
| 7236.00                  | 44.06            | PK          | 128              | 1.9        | H     | 1.33             | 45.39               | 74.00    | -28.61 |
| 7236.00                  | 39.60            | Ave         | 128              | 1.9        | H     | 1.33             | 40.93               | 54.00    | -13.07 |
| 2311.94                  | 46.78            | PK          | 92               | 1.7        | V     | -13.19           | 33.59               | 74.00    | -40.41 |
| 2311.94                  | 39.44            | Ave         | 92               | 1.7        | V     | -13.19           | 26.25               | 54.00    | -27.75 |
| 2357.50                  | 44.62            | PK          | 190              | 1.6        | H     | -13.14           | 31.48               | 74.00    | -42.52 |
| 2357.50                  | 38.98            | Ave         | 190              | 1.6        | H     | -13.14           | 25.84               | 54.00    | -28.16 |
| 2484.72                  | 44.61            | PK          | 24               | 1.8        | V     | -13.08           | 31.53               | 74.00    | -42.47 |
| 2484.72                  | 36.88            | Ave         | 24               | 1.8        | V     | -13.08           | 23.80               | 54.00    | -30.20 |

| Frequency                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|-----------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                             |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                       | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 11b: Middle Channel 2437MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                      | 35.01            | QP          | 124              | 1.1        | H     | -11.62           | 23.39               | 46.00          | -22.61 |
| 223.45                      | 30.34            | QP          | 135              | 1.2        | V     | -11.62           | 18.72               | 46.00          | -27.28 |
| 4874.00                     | 49.55            | PK          | 181              | 1.7        | V     | -0.62            | 48.93               | 74.00          | -25.07 |
| 4874.00                     | 42.40            | Ave         | 181              | 1.7        | V     | -0.62            | 41.78               | 54.00          | -12.22 |
| 7311.00                     | 43.54            | PK          | 192              | 1.9        | H     | 2.21             | 45.75               | 74.00          | -28.25 |
| 7311.00                     | 39.47            | Ave         | 192              | 1.9        | H     | 2.21             | 41.68               | 54.00          | -12.32 |
| 2336.59                     | 46.76            | PK          | 33               | 1.0        | V     | -13.19           | 33.57               | 74.00          | -40.43 |
| 2336.59                     | 38.59            | Ave         | 33               | 1.0        | V     | -13.19           | 25.40               | 54.00          | -28.60 |
| 2352.85                     | 44.19            | PK          | 150              | 1.2        | H     | -13.14           | 31.05               | 74.00          | -42.95 |
| 2352.85                     | 36.85            | Ave         | 150              | 1.2        | H     | -13.14           | 23.71               | 54.00          | -30.29 |
| 2485.25                     | 44.06            | PK          | 156              | 1.1        | V     | -13.08           | 30.98               | 74.00          | -43.02 |
| 2485.25                     | 37.75            | Ave         | 156              | 1.1        | V     | -13.08           | 24.67               | 54.00          | -29.33 |

| Frequency                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|---------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                           |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                     | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 11b: High Channel 2462MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                    | 35.57            | QP          | 198              | 1.4        | H     | -11.62           | 23.95               | 46.00          | -22.05 |
| 223.45                    | 31.74            | QP          | 188              | 2.0        | V     | -11.62           | 20.12               | 46.00          | -25.88 |
| 4924.00                   | 48.31            | PK          | 40               | 1.7        | V     | -0.24            | 48.07               | 74.00          | -25.93 |
| 4924.00                   | 41.00            | Ave         | 40               | 1.7        | V     | -0.24            | 40.76               | 54.00          | -13.24 |
| 7386.00                   | 42.80            | PK          | 9                | 1.3        | H     | 2.84             | 45.64               | 74.00          | -28.36 |
| 7386.00                   | 38.51            | Ave         | 9                | 1.3        | H     | 2.84             | 41.35               | 54.00          | -12.65 |
| 2347.65                   | 45.50            | PK          | 82               | 1.7        | V     | -13.19           | 32.31               | 74.00          | -41.69 |
| 2347.65                   | 38.66            | Ave         | 82               | 1.7        | V     | -13.19           | 25.47               | 54.00          | -28.53 |
| 2366.36                   | 43.87            | PK          | 1                | 2.0        | H     | -13.14           | 30.73               | 74.00          | -43.27 |
| 2366.36                   | 36.58            | Ave         | 1                | 2.0        | H     | -13.14           | 23.44               | 54.00          | -30.56 |
| 2485.44                   | 43.27            | PK          | 338              | 1.3        | V     | -13.08           | 30.19               | 74.00          | -43.81 |
| 2485.44                   | 36.29            | Ave         | 338              | 1.3        | V     | -13.08           | 23.21               | 54.00          | -30.79 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**5G Wi-Fi****U-NII-1**

All models have been tested, and only the worst-case (11a mode) was showed in the report.

**Test Frequency: 30MHz ~ 18GHz**

| Frequency                               | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-----------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                         |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                   | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band I Low Channel 5180MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                  | 40.58            | QP          | 92               | 1.2        | H     | -11.62           | 28.96               | 46.00    | -17.04 |
| 223.45                                  | 38.35            | QP          | 188              | 1.7        | V     | -11.62           | 26.73               | 46.00    | -19.27 |
| 4525.69                                 | 49.28            | PK          | 199              | 2.0        | H     | -2.14            | 47.14               | 74.00    | -26.86 |
| 4525.69                                 | 43.27            | Ave         | 199              | 2.0        | H     | -2.14            | 41.13               | 54.00    | -12.87 |
| 5146.75                                 | 45.83            | PK          | 337              | 1.7        | H     | -1.06            | 44.77               | 74.00    | -29.23 |
| 5146.75                                 | 39.82            | Ave         | 337              | 1.7        | H     | -1.06            | 38.76               | 54.00    | -15.24 |
| 10360.00                                | 40.29            | PK          | 328              | 1.2        | H     | 5.33             | 45.62               | 74.00    | -28.38 |
| 10360.00                                | 35.96            | Ave         | 328              | 1.2        | H     | 5.33             | 41.29               | 54.00    | -12.71 |
| 5377.18                                 | 45.05            | PK          | 210              | 1.5        | H     | -1.26            | 43.79               | 74.00    | -30.21 |
| 5377.18                                 | 39.33            | Ave         | 210              | 1.5        | H     | -1.26            | 38.07               | 54.00    | -15.93 |

| Frequency                               | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-----------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                         |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                   | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band I Low Channel 5200MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                  | 39.71            | QP          | 274              | 1.9        | H     | -11.62           | 28.09               | 46.00    | -17.91 |
| 223.45                                  | 38.31            | QP          | 320              | 1.3        | V     | -11.62           | 26.69               | 46.00    | -19.31 |
| 4527.12                                 | 48.55            | PK          | 78               | 1.1        | H     | -2.12            | 46.43               | 74.00    | -27.57 |
| 4527.12                                 | 42.91            | Ave         | 78               | 1.1        | H     | -2.12            | 40.79               | 54.00    | -13.21 |
| 5127.08                                 | 47.07            | PK          | 122              | 1.8        | H     | -1.06            | 46.01               | 74.00    | -27.99 |
| 5127.08                                 | 39.72            | Ave         | 122              | 1.8        | H     | -1.06            | 38.66               | 54.00    | -15.34 |
| 10400.00                                | 41.05            | PK          | 72               | 2.0        | H     | 5.21             | 46.26               | 74.00    | -27.74 |
| 10400.00                                | 35.77            | Ave         | 72               | 2.0        | H     | 5.21             | 40.98               | 54.00    | -13.02 |
| 5385.63                                 | 45.38            | PK          | 224              | 1.2        | H     | -1.07            | 44.31               | 74.00    | -29.69 |
| 5385.63                                 | 37.75            | Ave         | 224              | 1.2        | H     | -1.07            | 36.68               | 54.00    | -17.32 |

| Frequency                               | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-----------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                         |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                   | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band I Low Channel 5240MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                  | 40.35            | QP          | 142              | 1.2        | H     | -11.62           | 28.73               | 46.00    | -17.27 |
| 223.45                                  | 39.30            | QP          | 327              | 1.7        | V     | -11.62           | 27.68               | 46.00    | -18.32 |
| 4521.92                                 | 47.51            | PK          | 53               | 1.6        | H     | -1.96            | 45.55               | 74.00    | -28.45 |
| 4521.92                                 | 44.37            | Ave         | 53               | 1.6        | H     | -1.96            | 42.41               | 54.00    | -11.59 |
| 5129.74                                 | 48.20            | PK          | 289              | 1.4        | H     | -1.06            | 47.14               | 74.00    | -26.86 |
| 5129.74                                 | 41.22            | Ave         | 289              | 1.4        | H     | -1.06            | 40.16               | 54.00    | -13.84 |
| 10480.00                                | 40.33            | PK          | 141              | 1.2        | H     | 5.14             | 45.47               | 74.00    | -28.53 |
| 10480.00                                | 36.61            | Ave         | 141              | 1.2        | H     | 5.14             | 41.75               | 54.00    | -12.25 |
| 5373.46                                 | 46.17            | PK          | 188              | 1.5        | H     | -1.10            | 45.07               | 74.00    | -28.93 |
| 5373.46                                 | 37.70            | Ave         | 188              | 1.5        | H     | -1.10            | 36.60               | 54.00    | -17.40 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**U-NII-2A****Test Frequency: 30MHz ~ 18GHz**

| Frequency                                | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                          |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                    | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band II Low Channel 5260MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                   | 39.77            | QP          | 170              | 1.4        | H     | -11.62           | 28.15               | 46.00    | -17.85 |
| 223.45                                   | 40.45            | QP          | 123              | 2.0        | V     | -11.62           | 28.83               | 46.00    | -17.17 |
| 4532.23                                  | 36.18            | PK          | 337              | 1.3        | H     | -2.03            | 34.15               | 74.00    | -39.85 |
| 4532.23                                  | 44.74            | Ave         | 337              | 1.3        | H     | -2.03            | 42.71               | 54.00    | -11.29 |
| 5127.48                                  | 37.47            | PK          | 56               | 1.7        | H     | -1.02            | 36.45               | 74.00    | -37.55 |
| 5127.48                                  | 0.78             | Ave         | 56               | 1.7        | H     | -1.02            | -0.24               | 54.00    | -54.24 |
| 10520.00                                 | 41.30            | PK          | 175              | 1.6        | H     | 5.33             | 46.63               | 74.00    | -27.37 |
| 10520.00                                 | 37.04            | Ave         | 175              | 1.6        | H     | 5.33             | 42.37               | 54.00    | -11.63 |
| 5375.18                                  | 46.63            | PK          | 226              | 1.2        | H     | -1.21            | 45.42               | 74.00    | -28.58 |
| 5375.18                                  | 38.93            | Ave         | 226              | 1.2        | H     | -1.21            | 37.72               | 54.00    | -16.28 |

| Frequency                                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|---------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                             |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                       | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band II middle Channel 5280MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                      | 41.02            | QP          | 142              | 1.6        | H     | -11.62           | 29.40               | 46.00    | -16.60 |
| 223.45                                      | 40.15            | QP          | 99               | 1.9        | V     | -11.62           | 28.53               | 46.00    | -17.47 |
| 4529.73                                     | 37.12            | PK          | 235              | 1.4        | H     | -1.94            | 35.18               | 74.00    | -38.82 |
| 4529.73                                     | 46.18            | Ave         | 235              | 1.4        | H     | -1.94            | 44.24               | 54.00    | -9.76  |
| 5117.61                                     | 37.15            | PK          | 134              | 1.9        | H     | -1.06            | 36.09               | 74.00    | -37.91 |
| 5117.61                                     | 0.22             | Ave         | 134              | 1.9        | H     | -1.06            | -0.84               | 54.00    | -54.84 |
| 10560.00                                    | 40.51            | PK          | 340              | 1.5        | H     | 5.21             | 45.72               | 74.00    | -28.28 |
| 10560.00                                    | 37.03            | Ave         | 340              | 1.5        | H     | 5.21             | 42.24               | 54.00    | -11.76 |
| 5386.69                                     | 46.99            | PK          | 304              | 1.1        | H     | -1.37            | 45.62               | 74.00    | -28.38 |
| 5386.69                                     | 38.59            | Ave         | 304              | 1.1        | H     | -1.37            | 37.22               | 54.00    | -16.78 |

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band II High Channel 5320MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                    | 40.63            | QP          | 300              | 1.7        | H     | -11.62           | 29.01               | 46.00    | -16.99 |
| 223.45                                    | 39.54            | QP          | 327              | 1.5        | V     | -11.62           | 27.92               | 46.00    | -18.08 |
| 4535.22                                   | 35.76            | PK          | 69               | 1.5        | H     | -2.24            | 33.52               | 74.00    | -40.48 |
| 4535.22                                   | 46.99            | Ave         | 69               | 1.5        | H     | -2.24            | 44.75               | 54.00    | -9.25  |
| 5144.02                                   | 37.28            | PK          | 59               | 1.2        | H     | -1.09            | 36.19               | 74.00    | -37.81 |
| 5144.02                                   | 2.21             | Ave         | 59               | 1.2        | H     | -1.09            | 1.12                | 54.00    | -52.88 |
| 10640.00                                  | 40.88            | PK          | 38               | 1.7        | H     | 5.14             | 46.02               | 68.20    | -22.18 |
| 10640.00                                  | 37.81            | Ave         | 38               | 1.7        | H     | 5.14             | 42.95               | 54.00    | -11.05 |
| 5351.59                                   | 45.24            | PK          | 202              | 1.6        | H     | -1.38            | 43.86               | 74.00    | -30.14 |
| 5351.59                                   | 39.80            | Ave         | 202              | 1.6        | H     | -1.38            | 38.42               | 54.00    | -15.58 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**U-NII-2C****Test Frequency: 30MHz ~ 18GHz**

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band III Low Channel 5500MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                    | 36.83            | QP          | 187              | 1.3        | H     | -11.62           | 25.21               | 46.00    | -20.79 |
| 223.45                                    | 41.28            | QP          | 292              | 1.6        | V     | -11.62           | 29.66               | 46.00    | -16.34 |
| 4532.79                                   | 43.89            | PK          | 302              | 1.1        | H     | -2.03            | 41.86               | 74.00    | -32.14 |
| 4532.79                                   | 44.15            | Ave         | 302              | 1.1        | H     | -2.03            | 42.12               | 54.00    | -11.88 |
| 5145.86                                   | 37.24            | PK          | 76               | 1.4        | H     | -1.02            | 36.22               | 74.00    | -37.78 |
| 5145.86                                   | 42.14            | Ave         | 76               | 1.4        | H     | -1.02            | 41.12               | 54.00    | -12.88 |
| 11000.00                                  | 45.35            | PK          | 79               | 1.3        | H     | 5.33             | 50.68               | 68.20    | -17.52 |
| 11000.00                                  | 38.11            | Ave         | 79               | 1.3        | H     | 5.33             | 43.44               | 54.00    | -10.56 |
| 5351.47                                   | 45.23            | PK          | 197              | 1.9        | H     | -1.21            | 44.02               | 74.00    | -29.98 |
| 5351.47                                   | 37.40            | Ave         | 197              | 1.9        | H     | -1.21            | 36.19               | 54.00    | -17.81 |

| Frequency                                    | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|----------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                                              |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                                        | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 802.11n HT20 band III middle channel 5600MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                                       | 36.89            | QP          | 165              | 1.7        | H     | -11.62           | 25.27               | 46.00          | -20.73 |
| 223.45                                       | 41.27            | QP          | 138              | 1.3        | V     | -11.62           | 29.65               | 46.00          | -16.35 |
| 4507.62                                      | 42.44            | PK          | 190              | 1.5        | H     | -1.94            | 40.50               | 74.00          | -33.50 |
| 4507.62                                      | 43.72            | Ave         | 190              | 1.5        | H     | -1.94            | 41.78               | 54.00          | -12.22 |
| 5118.31                                      | 38.62            | PK          | 120              | 1.2        | H     | -1.06            | 37.56               | 74.00          | -36.44 |
| 5118.31                                      | 43.50            | Ave         | 120              | 1.2        | H     | -1.06            | 42.44               | 54.00          | -11.56 |
| 11200.00                                     | 45.26            | PK          | 261              | 1.9        | H     | 5.21             | 50.47               | 68.20          | -17.73 |
| 11200.00                                     | 38.49            | Ave         | 261              | 1.9        | H     | 5.21             | 43.70               | 54.00          | -10.30 |
| 5362.24                                      | 45.13            | PK          | 42               | 1.7        | H     | -1.37            | 43.76               | 74.00          | -30.24 |
| 5362.24                                      | 37.44            | Ave         | 42               | 1.7        | H     | -1.37            | 36.07               | 54.00          | -17.93 |

| Frequency                                  | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|--------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                            |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                      | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band III High channel 5700MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                     | 35.84            | QP          | 330              | 1.6        | H     | -11.62           | 24.22               | 46.00    | -21.78 |
| 223.45                                     | 41.16            | QP          | 32               | 1.5        | V     | -11.62           | 29.54               | 46.00    | -16.46 |
| 4519.31                                    | 42.88            | PK          | 83               | 1.2        | H     | -2.24            | 40.64               | 74.00    | -33.36 |
| 4519.31                                    | 44.95            | Ave         | 83               | 1.2        | H     | -2.24            | 42.71               | 54.00    | -11.29 |
| 5125.47                                    | 40.21            | PK          | 226              | 1.3        | H     | -1.09            | 39.12               | 74.00    | -34.88 |
| 5125.47                                    | 44.17            | Ave         | 226              | 1.3        | H     | -1.09            | 43.08               | 54.00    | -10.92 |
| 11400.00                                   | 43.90            | PK          | 273              | 1.9        | H     | 5.14             | 49.04               | 68.20    | -19.16 |
| 11400.00                                   | 37.57            | Ave         | 273              | 1.9        | H     | 5.14             | 42.71               | 54.00    | -11.29 |
| 5352.07                                    | 45.81            | PK          | 144              | 1.2        | H     | -1.38            | 44.43               | 74.00    | -29.57 |
| 5352.07                                    | 39.85            | Ave         | 144              | 1.2        | H     | -1.38            | 38.47               | 54.00    | -15.53 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**U-NII-3****Test Frequency: 30MHz ~ 18GHz**

| Frequency                                | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                          |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                    | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band IV low Channel 5745MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                   | 35.87            | QP          | 53               | 1.2        | H     | -11.62           | 24.25               | 46.00    | -21.75 |
| 223.45                                   | 47.46            | QP          | 8                | 1.7        | V     | -11.62           | 35.84               | 46.00    | -10.16 |
| 4519.97                                  | 41.82            | PK          | 218              | 2.0        | H     | -2.06            | 39.76               | 74.00    | -34.24 |
| 4519.97                                  | 44.48            | Ave         | 218              | 2.0        | H     | -2.06            | 42.42               | 54.00    | -11.58 |
| 11490.00                                 | 35.98            | PK          | 74               | 1.4        | H     | 5.93             | 41.91               | 68.20    | -26.29 |
| 11490.00                                 | 32.22            | Ave         | 74               | 1.4        | H     | 5.93             | 38.15               | 54.00    | -15.85 |
| 5377.83                                  | 46.53            | PK          | 127              | 1.8        | H     | -1.25            | 45.28               | 74.00    | -28.72 |
| 5377.83                                  | 37.61            | Ave         | 127              | 1.8        | H     | -1.25            | 36.36               | 54.00    | -17.64 |
| 5443.10                                  | 45.84            | PK          | 255              | 1.2        | H     | -1.36            | 44.48               | 74.00    | -29.52 |
| 5443.10                                  | 37.77            | Ave         | 255              | 1.2        | H     | -1.36            | 36.41               | 54.00    | -17.59 |

| Frequency                                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|---------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                                             |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                                       | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 802.11n HT20 band IV middle channel 5785MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                                      | 36.30            | QP          | 257              | 1.3        | H     | -11.62           | 24.68               | 46.00          | -21.32 |
| 223.45                                      | 46.42            | QP          | 327              | 1.7        | V     | -11.62           | 34.80               | 46.00          | -11.20 |
| 4519.15                                     | 40.38            | PK          | 293              | 1.3        | H     | -2.03            | 38.35               | 74.00          | -35.65 |
| 4519.15                                     | 44.11            | Ave         | 293              | 1.3        | H     | -2.03            | 42.08               | 54.00          | -11.92 |
| 11570.00                                    | 35.83            | PK          | 253              | 1.7        | H     | 5.81             | 41.64               | 68.20          | -26.56 |
| 11570.00                                    | 43.80            | Ave         | 253              | 1.7        | H     | 5.81             | 49.61               | 54.00          | -4.39  |
| 5385.92                                     | 46.46            | PK          | 243              | 1.3        | H     | -1.22            | 45.24               | 74.00          | -28.76 |
| 5385.92                                     | 37.03            | Ave         | 243              | 1.3        | H     | -1.22            | 35.81               | 54.00          | -18.19 |
| 5450.14                                     | 46.89            | PK          | 220              | 2.0        | H     | -1.36            | 45.53               | 74.00          | -28.47 |
| 5450.14                                     | 37.56            | Ave         | 220              | 2.0        | H     | -1.36            | 36.20               | 54.00          | -17.80 |

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band IV High channel 5825MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                    | 37.60            | QP          | 253              | 1.8        | H     | -11.62           | 25.98               | 46.00    | -20.02 |
| 223.45                                    | 46.18            | QP          | 152              | 2.0        | V     | -11.62           | 34.56               | 46.00    | -11.44 |
| 4500.94                                   | 40.42            | PK          | 46               | 1.1        | H     | -1.84            | 38.58               | 74.00    | -35.42 |
| 4500.94                                   | 45.25            | Ave         | 46               | 1.1        | H     | -1.84            | 43.41               | 54.00    | -10.59 |
| 11650.00                                  | 36.91            | PK          | 249              | 1.8        | H     | 5.84             | 42.75               | 68.20    | -25.45 |
| 11650.00                                  | 44.46            | Ave         | 249              | 1.8        | H     | 5.84             | 50.30               | 54.00    | -3.70  |
| 5383.03                                   | 46.95            | PK          | 272              | 1.2        | H     | -1.30            | 45.65               | 74.00    | -28.35 |
| 5383.03                                   | 37.22            | Ave         | 272              | 1.2        | H     | -1.30            | 35.92               | 54.00    | -18.08 |
| 5420.54                                   | 45.73            | PK          | 126              | 1.3        | H     | -1.36            | 44.37               | 74.00    | -29.63 |
| 5420.54                                   | 39.50            | Ave         | 126              | 1.3        | H     | -1.36            | 38.14               | 54.00    | -15.86 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**Optional antenna 2****Test Frequency: 9KHz~30MHz**

The measurements were more than 20 dB below the limit and not reported.

**2.4G Wi-Fi**

All models have been tested, and only the worst-case (11b mode) was showed in the report.

**Test Frequency: 30MHz ~ 18GHz**

| Frequency                | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|--------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                          |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                    | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 11b: Low Channel 2412MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                   | 33.31            | QP          | 289              | 1.7        | H     | -11.62           | 21.69               | 46.00    | -24.31 |
| 223.45                   | 26.67            | QP          | 62               | 1.5        | V     | -11.62           | 15.05               | 46.00    | -30.95 |
| 4824.00                  | 49.92            | PK          | 22               | 1.5        | V     | -1.06            | 48.86               | 74.00    | -25.14 |
| 4824.00                  | 44.38            | Ave         | 22               | 1.5        | V     | -1.06            | 43.32               | 54.00    | -10.68 |
| 7236.00                  | 44.33            | PK          | 14               | 1.1        | H     | 1.33             | 45.66               | 74.00    | -28.34 |
| 7236.00                  | 40.07            | Ave         | 14               | 1.1        | H     | 1.33             | 41.40               | 54.00    | -12.60 |
| 2342.43                  | 46.93            | PK          | 231              | 1.4        | V     | -13.19           | 33.74               | 74.00    | -40.26 |
| 2342.43                  | 38.04            | Ave         | 231              | 1.4        | V     | -13.19           | 24.85               | 54.00    | -29.15 |
| 2388.44                  | 43.17            | PK          | 352              | 1.3        | H     | -13.14           | 30.03               | 74.00    | -43.97 |
| 2388.44                  | 38.32            | Ave         | 352              | 1.3        | H     | -13.14           | 25.18               | 54.00    | -28.82 |
| 2485.07                  | 43.56            | PK          | 204              | 1.5        | V     | -13.08           | 30.48               | 74.00    | -43.52 |
| 2485.07                  | 38.10            | Ave         | 204              | 1.5        | V     | -13.08           | 25.02               | 54.00    | -28.98 |

| Frequency                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|-----------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                             |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                       | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 11b: Middle Channel 2437MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                      | 33.23            | QP          | 345              | 1.7        | H     | -11.62           | 21.61               | 46.00          | -24.39 |
| 223.45                      | 25.71            | QP          | 81               | 1.9        | V     | -11.62           | 14.09               | 46.00          | -31.91 |
| 4874.00                     | 50.26            | PK          | 328              | 1.8        | V     | -0.62            | 49.64               | 74.00          | -24.36 |
| 4874.00                     | 43.47            | Ave         | 328              | 1.8        | V     | -0.62            | 42.85               | 54.00          | -11.15 |
| 7311.00                     | 43.94            | PK          | 23               | 1.1        | H     | 2.21             | 46.15               | 74.00          | -27.85 |
| 7311.00                     | 39.75            | Ave         | 23               | 1.1        | H     | 2.21             | 41.96               | 54.00          | -12.04 |
| 2324.25                     | 46.62            | PK          | 46               | 1.3        | V     | -13.19           | 33.43               | 74.00          | -40.57 |
| 2324.25                     | 38.49            | Ave         | 46               | 1.3        | V     | -13.19           | 25.30               | 54.00          | -28.70 |
| 2377.91                     | 43.92            | PK          | 326              | 1.6        | H     | -13.14           | 30.78               | 74.00          | -43.22 |
| 2377.91                     | 38.07            | Ave         | 326              | 1.6        | H     | -13.14           | 24.93               | 54.00          | -29.07 |
| 2487.11                     | 42.91            | PK          | 276              | 1.4        | V     | -13.08           | 29.83               | 74.00          | -44.17 |
| 2487.11                     | 38.38            | Ave         | 276              | 1.4        | V     | -13.08           | 25.30               | 54.00          | -28.70 |

| Frequency                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|---------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                           |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                     | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 11b: High Channel 2462MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                    | 33.69            | QP          | 34               | 1.5        | H     | -11.62           | 22.07               | 46.00          | -23.93 |
| 223.45                    | 27.17            | QP          | 337              | 1.8        | V     | -11.62           | 15.55               | 46.00          | -30.45 |
| 4924.00                   | 51.42            | PK          | 289              | 1.4        | V     | -0.24            | 51.18               | 74.00          | -22.82 |
| 4924.00                   | 42.79            | Ave         | 289              | 1.4        | V     | -0.24            | 42.55               | 54.00          | -11.45 |
| 7386.00                   | 42.47            | PK          | 128              | 1.4        | H     | 2.84             | 45.31               | 74.00          | -28.69 |
| 7386.00                   | 38.33            | Ave         | 128              | 1.4        | H     | 2.84             | 41.17               | 54.00          | -12.83 |
| 2319.90                   | 46.31            | PK          | 0                | 1.3        | V     | -13.19           | 33.12               | 74.00          | -40.88 |
| 2319.90                   | 37.26            | Ave         | 0                | 1.3        | V     | -13.19           | 24.07               | 54.00          | -29.93 |
| 2373.94                   | 44.19            | PK          | 16               | 1.5        | H     | -13.14           | 31.05               | 74.00          | -42.95 |
| 2373.94                   | 36.83            | Ave         | 16               | 1.5        | H     | -13.14           | 23.69               | 54.00          | -30.31 |
| 2483.75                   | 44.85            | PK          | 105              | 1.1        | V     | -13.08           | 31.77               | 74.00          | -42.23 |
| 2483.75                   | 36.33            | Ave         | 105              | 1.1        | V     | -13.08           | 23.25               | 54.00          | -30.75 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**5G Wi-Fi****U-NII-1**

All models have been tested, and only the worst-case (11a mode) was showed in the report.

**Test Frequency: 30MHz ~ 18GHz**

| Frequency                               | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-----------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                         |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                   | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band I Low Channel 5180MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                  | 37.21            | QP          | 10               | 1.7        | H     | -11.62           | 25.59               | 46.00    | -20.41 |
| 223.45                                  | 45.41            | QP          | 52               | 1.9        | V     | -11.62           | 33.79               | 46.00    | -12.21 |
| 4531.24                                 | 47.20            | PK          | 109              | 2.0        | H     | -2.14            | 45.06               | 74.00    | -28.94 |
| 4531.24                                 | 37.08            | Ave         | 109              | 2.0        | H     | -2.14            | 34.94               | 54.00    | -19.06 |
| 5135.10                                 | 40.22            | PK          | 323              | 2.0        | H     | -1.06            | 39.16               | 74.00    | -34.84 |
| 5135.10                                 | 39.46            | Ave         | 323              | 2.0        | H     | -1.06            | 38.40               | 54.00    | -15.60 |
| 10360.00                                | 40.23            | PK          | 310              | 1.5        | H     | 5.33             | 45.56               | 74.00    | -28.44 |
| 10360.00                                | 36.41            | Ave         | 310              | 1.5        | H     | 5.33             | 41.74               | 54.00    | -12.26 |
| 5375.77                                 | 46.87            | PK          | 299              | 1.8        | H     | -1.26            | 45.61               | 74.00    | -28.39 |
| 5375.77                                 | 38.14            | Ave         | 299              | 1.8        | H     | -1.26            | 36.88               | 54.00    | -17.12 |

| Frequency                               | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-----------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                         |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                   | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band I Low Channel 5200MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                  | 38.13            | QP          | 223              | 1.8        | H     | -11.62           | 26.51               | 46.00    | -19.49 |
| 223.45                                  | 46.72            | QP          | 333              | 1.6        | V     | -11.62           | 35.10               | 46.00    | -10.90 |
| 4535.72                                 | 48.43            | PK          | 206              | 1.3        | H     | -2.12            | 46.31               | 74.00    | -27.69 |
| 4535.72                                 | 36.59            | Ave         | 206              | 1.3        | H     | -2.12            | 34.47               | 54.00    | -19.53 |
| 5115.51                                 | 39.92            | PK          | 6                | 1.6        | H     | -1.06            | 38.86               | 74.00    | -35.14 |
| 5115.51                                 | 41.06            | Ave         | 6                | 1.6        | H     | -1.06            | 40.00               | 54.00    | -14.00 |
| 10400.00                                | 41.93            | PK          | 182              | 1.1        | H     | 5.21             | 47.14               | 74.00    | -26.86 |
| 10400.00                                | 37.82            | Ave         | 182              | 1.1        | H     | 5.21             | 43.03               | 54.00    | -10.97 |
| 5351.43                                 | 45.37            | PK          | 326              | 1.1        | H     | -1.07            | 44.30               | 74.00    | -29.70 |
| 5351.43                                 | 39.11            | Ave         | 326              | 1.1        | H     | -1.07            | 38.04               | 54.00    | -15.96 |

| Frequency                               | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-----------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                         |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                   | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band I Low Channel 5240MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                  | 39.30            | QP          | 168              | 1.2        | H     | -11.62           | 27.68               | 46.00    | -18.32 |
| 223.45                                  | 45.48            | QP          | 22               | 1.9        | V     | -11.62           | 33.86               | 46.00    | -12.14 |
| 4509.87                                 | 48.79            | PK          | 26               | 1.8        | H     | -1.96            | 46.83               | 74.00    | -27.17 |
| 4509.87                                 | 36.21            | Ave         | 26               | 1.8        | H     | -1.96            | 34.25               | 54.00    | -19.75 |
| 5130.36                                 | 40.46            | PK          | 55               | 1.2        | H     | -1.06            | 39.40               | 74.00    | -34.60 |
| 5130.36                                 | 41.56            | Ave         | 55               | 1.2        | H     | -1.06            | 40.50               | 54.00    | -13.50 |
| 10480.00                                | 40.76            | PK          | 80               | 1.2        | H     | 5.14             | 45.90               | 74.00    | -28.10 |
| 10480.00                                | 38.15            | Ave         | 80               | 1.2        | H     | 5.14             | 43.29               | 54.00    | -10.71 |
| 5366.95                                 | 45.87            | PK          | 128              | 1.5        | H     | -1.10            | 44.77               | 74.00    | -29.23 |
| 5366.95                                 | 37.25            | Ave         | 128              | 1.5        | H     | -1.10            | 36.15               | 54.00    | -17.85 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**U-NII-2A****Test Frequency: 30MHz ~ 18GHz**

| Frequency                                | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                          |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                    | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band II Low Channel 5260MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                   | 40.28            | QP          | 241              | 1.5        | H     | -11.62           | 28.66               | 46.00    | -17.34 |
| 223.45                                   | 40.09            | QP          | 202              | 1.5        | V     | -11.62           | 28.47               | 46.00    | -17.53 |
| 4502.27                                  | 36.31            | PK          | 314              | 1.3        | H     | -2.03            | 34.28               | 74.00    | -39.72 |
| 4502.27                                  | 46.34            | Ave         | 314              | 1.3        | H     | -2.03            | 44.31               | 54.00    | -9.69  |
| 5148.98                                  | 39.13            | PK          | 114              | 1.1        | H     | -1.02            | 38.11               | 74.00    | -35.89 |
| 5148.98                                  | 1.26             | Ave         | 114              | 1.1        | H     | -1.02            | 0.24                | 54.00    | -53.76 |
| 10520.00                                 | 38.44            | PK          | 228              | 2.0        | H     | 5.33             | 43.77               | 74.00    | -30.23 |
| 10520.00                                 | 34.12            | Ave         | 228              | 2.0        | H     | 5.33             | 39.45               | 54.00    | -14.55 |
| 5377.52                                  | 45.30            | PK          | 323              | 1.8        | H     | -1.21            | 44.09               | 74.00    | -29.91 |
| 5377.52                                  | 38.53            | Ave         | 323              | 1.8        | H     | -1.21            | 37.32               | 54.00    | -16.68 |

| Frequency                                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|---------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                                             |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                                       | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 802.11n HT20 band II middle Channel 5280MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                                      | 40.50            | QP          | 50               | 1.8        | H     | -11.62           | 28.88               | 46.00          | -17.12 |
| 223.45                                      | 41.36            | QP          | 207              | 1.8        | V     | -11.62           | 29.74               | 46.00          | -16.26 |
| 4504.50                                     | 37.27            | PK          | 341              | 1.7        | H     | -1.94            | 35.33               | 74.00          | -38.67 |
| 4504.50                                     | 45.65            | Ave         | 341              | 1.7        | H     | -1.94            | 43.71               | 54.00          | -10.29 |
| 5136.52                                     | 40.78            | PK          | 80               | 1.7        | H     | -1.06            | 39.72               | 74.00          | -34.28 |
| 5136.52                                     | 0.90             | Ave         | 80               | 1.7        | H     | -1.06            | -0.16               | 54.00          | -54.16 |
| 10560.00                                    | 38.15            | PK          | 351              | 1.8        | H     | 5.21             | 43.36               | 74.00          | -30.64 |
| 10560.00                                    | 35.15            | Ave         | 351              | 1.8        | H     | 5.21             | 40.36               | 54.00          | -13.64 |
| 5359.62                                     | 46.68            | PK          | 302              | 1.7        | H     | -1.37            | 45.31               | 74.00          | -28.69 |
| 5359.62                                     | 38.53            | Ave         | 302              | 1.7        | H     | -1.37            | 37.16               | 54.00          | -16.84 |

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band II High Channel 5320MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                    | 41.05            | QP          | 104              | 1.0        | H     | -11.62           | 29.43               | 46.00    | -16.57 |
| 223.45                                    | 40.75            | QP          | 323              | 1.7        | V     | -11.62           | 29.13               | 46.00    | -16.87 |
| 4507.39                                   | 37.00            | PK          | 241              | 1.9        | H     | -2.24            | 34.76               | 74.00    | -39.24 |
| 4507.39                                   | 45.82            | Ave         | 241              | 1.9        | H     | -2.24            | 43.58               | 54.00    | -10.42 |
| 5116.97                                   | 40.89            | PK          | 147              | 1.8        | H     | -1.09            | 39.80               | 74.00    | -34.20 |
| 5116.97                                   | 0.72             | Ave         | 147              | 1.8        | H     | -1.09            | -0.37               | 54.00    | -54.37 |
| 10640.00                                  | 39.57            | PK          | 263              | 1.4        | H     | 5.14             | 44.71               | 68.20    | -23.49 |
| 10640.00                                  | 33.31            | Ave         | 263              | 1.4        | H     | 5.14             | 38.45               | 54.00    | -15.55 |
| 5364.22                                   | 46.85            | PK          | 266              | 1.5        | H     | -1.38            | 45.47               | 74.00    | -28.53 |
| 5364.22                                   | 39.88            | Ave         | 266              | 1.5        | H     | -1.38            | 38.50               | 54.00    | -15.50 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**U-NII-2C****Test Frequency: 30MHz ~ 18GHz**

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band III Low Channel 5500MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                    | 36.60            | QP          | 357              | 1.5        | H     | -11.62           | 24.98               | 46.00    | -21.02 |
| 223.45                                    | 40.68            | QP          | 57               | 1.2        | V     | -11.62           | 29.06               | 46.00    | -16.94 |
| 4526.49                                   | 46.14            | PK          | 77               | 1.0        | H     | -2.03            | 44.11               | 74.00    | -29.89 |
| 4526.49                                   | 42.06            | Ave         | 77               | 1.0        | H     | -2.03            | 40.03               | 54.00    | -13.97 |
| 5119.32                                   | 42.25            | PK          | 14               | 1.1        | H     | -1.02            | 41.23               | 74.00    | -32.77 |
| 5119.32                                   | 43.14            | Ave         | 14               | 1.1        | H     | -1.02            | 42.12               | 54.00    | -11.88 |
| 11000.00                                  | 47.26            | PK          | 72               | 2.0        | H     | 5.33             | 52.59               | 68.20    | -15.61 |
| 11000.00                                  | 37.87            | Ave         | 72               | 2.0        | H     | 5.33             | 43.20               | 54.00    | -10.80 |
| 5371.41                                   | 45.96            | PK          | 320              | 1.1        | H     | -1.21            | 44.75               | 74.00    | -29.25 |
| 5371.41                                   | 38.48            | Ave         | 320              | 1.1        | H     | -1.21            | 37.27               | 54.00    | -16.73 |

| Frequency                                    | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|----------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                              |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                        | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band III middle channel 5600MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                       | 36.87            | QP          | 326              | 1.9        | H     | -11.62           | 25.25               | 46.00    | -20.75 |
| 223.45                                       | 41.96            | QP          | 34               | 1.4        | V     | -11.62           | 30.34               | 46.00    | -15.66 |
| 4530.27                                      | 45.80            | PK          | 254              | 1.4        | H     | -1.94            | 43.86               | 74.00    | -30.14 |
| 4530.27                                      | 42.57            | Ave         | 254              | 1.4        | H     | -1.94            | 40.63               | 54.00    | -13.37 |
| 5131.70                                      | 43.38            | PK          | 43               | 1.4        | H     | -1.06            | 42.32               | 74.00    | -31.68 |
| 5131.70                                      | 44.42            | Ave         | 43               | 1.4        | H     | -1.06            | 43.36               | 54.00    | -10.64 |
| 11200.00                                     | 47.75            | PK          | 348              | 1.1        | H     | 5.21             | 52.96               | 68.20    | -15.24 |
| 11200.00                                     | 38.52            | Ave         | 348              | 1.1        | H     | 5.21             | 43.73               | 54.00    | -10.27 |
| 5374.58                                      | 45.05            | PK          | 357              | 1.5        | H     | -1.37            | 43.68               | 74.00    | -30.32 |
| 5374.58                                      | 37.01            | Ave         | 357              | 1.5        | H     | -1.37            | 35.64               | 54.00    | -18.36 |

| Frequency                                  | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|--------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                            |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                      | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band III High channel 5700MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                     | 35.49            | QP          | 262              | 1.3        | H     | -11.62           | 23.87               | 46.00    | -22.13 |
| 223.45                                     | 41.96            | QP          | 211              | 1.3        | V     | -11.62           | 30.34               | 46.00    | -15.66 |
| 4504.98                                    | 46.84            | PK          | 108              | 1.3        | H     | -2.24            | 44.60               | 74.00    | -29.40 |
| 4504.98                                    | 42.99            | Ave         | 108              | 1.3        | H     | -2.24            | 40.75               | 54.00    | -13.25 |
| 5131.14                                    | 42.86            | PK          | 154              | 1.2        | H     | -1.09            | 41.77               | 74.00    | -32.23 |
| 5131.14                                    | 43.92            | Ave         | 154              | 1.2        | H     | -1.09            | 42.83               | 54.00    | -11.17 |
| 11400.00                                   | 46.12            | PK          | 21               | 1.7        | H     | 5.14             | 51.26               | 68.20    | -16.94 |
| 11400.00                                   | 38.43            | Ave         | 21               | 1.7        | H     | 5.14             | 43.57               | 54.00    | -10.43 |
| 5385.71                                    | 45.50            | PK          | 354              | 1.5        | H     | -1.38            | 44.12               | 74.00    | -29.88 |
| 5385.71                                    | 37.81            | Ave         | 354              | 1.5        | H     | -1.38            | 36.43               | 54.00    | -17.57 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**U-NII-3****Test Frequency: 30MHz ~ 18GHz**

| Frequency                                | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                          |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                    | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band IV low Channel 5745MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                   | 38.58            | QP          | 340              | 1.8        | H     | -11.62           | 26.96               | 46.00    | -19.04 |
| 223.45                                   | 37.58            | QP          | 82               | 1.5        | V     | -11.62           | 25.96               | 46.00    | -20.04 |
| 4534.80                                  | 50.69            | PK          | 190              | 1.4        | H     | -2.06            | 48.63               | 74.00    | -25.37 |
| 4534.80                                  | 37.54            | Ave         | 190              | 1.4        | H     | -2.06            | 35.48               | 54.00    | -18.52 |
| 11490.00                                 | 46.19            | PK          | 179              | 1.7        | H     | 5.93             | 52.12               | 68.20    | -16.08 |
| 11490.00                                 | 30.16            | Ave         | 179              | 1.7        | H     | 5.93             | 36.09               | 54.00    | -17.91 |
| 5385.93                                  | 42.29            | PK          | 177              | 1.8        | H     | -1.25            | 41.04               | 74.00    | -32.96 |
| 5385.93                                  | 35.75            | Ave         | 177              | 1.8        | H     | -1.25            | 34.50               | 54.00    | -19.50 |
| 5426.43                                  | 46.01            | PK          | 349              | 1.9        | H     | -1.36            | 44.65               | 74.00    | -29.35 |
| 5426.43                                  | 39.18            | Ave         | 349              | 1.9        | H     | -1.36            | 37.82               | 54.00    | -16.18 |

| Frequency                                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|---------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                             |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                       | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band IV middle channel 5785MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                      | 41.87            | QP          | 61               | 1.8        | H     | -11.62           | 30.25               | 46.00    | -15.75 |
| 223.45                                      | 37.47            | QP          | 182              | 1.7        | V     | -11.62           | 25.85               | 46.00    | -20.15 |
| 4539.44                                     | 39.55            | PK          | 102              | 1.6        | H     | -2.03            | 37.52               | 74.00    | -36.48 |
| 4539.44                                     | 35.19            | Ave         | 102              | 1.6        | H     | -2.03            | 33.16               | 54.00    | -20.84 |
| 11570.00                                    | 48.21            | PK          | 70               | 2.0        | H     | 5.81             | 54.02               | 68.20    | -14.18 |
| 11570.00                                    | 30.67            | Ave         | 70               | 2.0        | H     | 5.81             | 36.48               | 54.00    | -17.52 |
| 5350.37                                     | 42.17            | PK          | 207              | 1.7        | H     | -1.22            | 40.95               | 74.00    | -33.05 |
| 5350.37                                     | 38.40            | Ave         | 207              | 1.7        | H     | -1.22            | 37.18               | 54.00    | -16.82 |
| 5448.78                                     | 46.70            | PK          | 138              | 1.7        | H     | -1.36            | 45.34               | 74.00    | -28.66 |
| 5448.78                                     | 38.49            | Ave         | 138              | 1.7        | H     | -1.36            | 37.13               | 54.00    | -16.87 |

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band IV High channel 5825MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                    | 37.59            | QP          | 336              | 1.5        | H     | -11.62           | 25.97               | 46.00    | -20.03 |
| 223.45                                    | 45.09            | QP          | 241              | 1.6        | V     | -11.62           | 33.47               | 46.00    | -12.53 |
| 4514.03                                   | 45.16            | PK          | 204              | 1.0        | H     | -1.84            | 43.32               | 74.00    | -30.68 |
| 4514.03                                   | 36.51            | Ave         | 204              | 1.0        | H     | -1.84            | 34.67               | 54.00    | -19.33 |
| 11650.00                                  | 35.90            | PK          | 137              | 1.1        | H     | 5.84             | 41.74               | 68.20    | -26.46 |
| 11650.00                                  | 31.33            | Ave         | 137              | 1.1        | H     | 5.84             | 37.17               | 54.00    | -16.83 |
| 5352.13                                   | 45.07            | PK          | 25               | 1.5        | H     | -1.30            | 43.77               | 74.00    | -30.23 |
| 5352.13                                   | 38.56            | Ave         | 25               | 1.5        | H     | -1.30            | 37.26               | 54.00    | -16.74 |
| 5440.04                                   | 46.36            | PK          | 153              | 1.8        | H     | -1.36            | 45.00               | 74.00    | -29.00 |
| 5440.04                                   | 37.34            | Ave         | 153              | 1.8        | H     | -1.36            | 35.98               | 54.00    | -18.02 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**Optional antenna 3****Test Frequency: 9KHz~30MHz**

The measurements were more than 20 dB below the limit and not reported.

**2.4G Wi-Fi**

All models have been tested, and only the worst-case (11b mode) was showed in the report.

**Test Frequency: 30MHz ~ 18GHz**

| Frequency                | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|--------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                          |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                    | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 11b: Low Channel 2412MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                   | 40.85            | QP          | 294              | 2.0        | H     | -11.62           | 29.23               | 46.00    | -16.77 |
| 223.45                   | 32.97            | QP          | 131              | 1.2        | V     | -11.62           | 21.35               | 46.00    | -24.65 |
| 4824.00                  | 50.31            | PK          | 40               | 1.6        | V     | -1.06            | 49.25               | 74.00    | -24.75 |
| 4824.00                  | 43.09            | Ave         | 40               | 1.6        | V     | -1.06            | 42.03               | 54.00    | -11.97 |
| 7236.00                  | 40.03            | PK          | 155              | 1.9        | H     | 1.33             | 41.36               | 74.00    | -32.64 |
| 7236.00                  | 40.84            | Ave         | 155              | 1.9        | H     | 1.33             | 42.17               | 54.00    | -11.83 |
| 2323.13                  | 45.70            | PK          | 42               | 1.0        | V     | -13.19           | 32.51               | 74.00    | -41.49 |
| 2323.13                  | 38.43            | Ave         | 42               | 1.0        | V     | -13.19           | 25.24               | 54.00    | -28.76 |
| 2372.01                  | 43.19            | PK          | 67               | 1.7        | H     | -13.14           | 30.05               | 74.00    | -43.95 |
| 2372.01                  | 36.62            | Ave         | 67               | 1.7        | H     | -13.14           | 23.48               | 54.00    | -30.52 |
| 2495.40                  | 42.74            | PK          | 76               | 1.9        | V     | -13.08           | 29.66               | 74.00    | -44.34 |
| 2495.40                  | 36.10            | Ave         | 76               | 1.9        | V     | -13.08           | 23.02               | 54.00    | -30.98 |

| Frequency                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|-----------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                             |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                       | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 11b: Middle Channel 2437MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                      | 40.26            | QP          | 356              | 1.5        | H     | -11.62           | 28.64               | 46.00          | -17.36 |
| 223.45                      | 31.51            | QP          | 342              | 1.9        | V     | -11.62           | 19.89               | 46.00          | -26.11 |
| 4874.00                     | 49.07            | PK          | 152              | 1.8        | V     | -0.62            | 48.45               | 74.00          | -25.55 |
| 4874.00                     | 42.75            | Ave         | 152              | 1.8        | V     | -0.62            | 42.13               | 54.00          | -11.87 |
| 7311.00                     | 38.78            | PK          | 80               | 1.9        | H     | 2.21             | 40.99               | 74.00          | -33.01 |
| 7311.00                     | 40.38            | Ave         | 80               | 1.9        | H     | 2.21             | 42.59               | 54.00          | -11.41 |
| 2328.52                     | 46.13            | PK          | 28               | 1.3        | V     | -13.19           | 32.94               | 74.00          | -41.06 |
| 2328.52                     | 39.29            | Ave         | 28               | 1.3        | V     | -13.19           | 26.10               | 54.00          | -27.90 |
| 2371.40                     | 43.89            | PK          | 54               | 1.6        | H     | -13.14           | 30.75               | 74.00          | -43.25 |
| 2371.40                     | 38.80            | Ave         | 54               | 1.6        | H     | -13.14           | 25.66               | 54.00          | -28.34 |
| 2484.14                     | 43.13            | PK          | 326              | 1.8        | V     | -13.08           | 30.05               | 74.00          | -43.95 |
| 2484.14                     | 38.03            | Ave         | 326              | 1.8        | V     | -13.08           | 24.95               | 54.00          | -29.05 |

| Frequency                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|---------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                           |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                     | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 11b: High Channel 2462MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                    | 39.45            | QP          | 349              | 1.9        | H     | -11.62           | 27.83               | 46.00          | -18.17 |
| 223.45                    | 32.76            | QP          | 199              | 1.2        | V     | -11.62           | 21.14               | 46.00          | -24.86 |
| 4924.00                   | 47.91            | PK          | 54               | 1.6        | V     | -0.24            | 47.67               | 74.00          | -26.33 |
| 4924.00                   | 43.61            | Ave         | 54               | 1.6        | V     | -0.24            | 43.37               | 54.00          | -10.63 |
| 7386.00                   | 38.21            | PK          | 159              | 1.2        | H     | 2.84             | 41.05               | 74.00          | -32.95 |
| 7386.00                   | 40.73            | Ave         | 159              | 1.2        | H     | 2.84             | 43.57               | 54.00          | -10.43 |
| 2312.02                   | 45.92            | PK          | 36               | 1.8        | V     | -13.19           | 32.73               | 74.00          | -41.27 |
| 2312.02                   | 37.62            | Ave         | 36               | 1.8        | V     | -13.19           | 24.43               | 54.00          | -29.57 |
| 2355.53                   | 43.48            | PK          | 291              | 1.3        | H     | -13.14           | 30.34               | 74.00          | -43.66 |
| 2355.53                   | 36.68            | Ave         | 291              | 1.3        | H     | -13.14           | 23.54               | 54.00          | -30.46 |
| 2499.45                   | 44.01            | PK          | 41               | 1.2        | V     | -13.08           | 30.93               | 74.00          | -43.07 |
| 2499.45                   | 36.54            | Ave         | 41               | 1.2        | V     | -13.08           | 23.46               | 54.00          | -30.54 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**5G Wi-Fi****U-NII-1**

All models have been tested, and only the worst-case (11a mode) was showed in the report.

**Test Frequency: 30MHz ~ 18GHz**

| Frequency                               | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-----------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                         |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                   | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band I Low Channel 5180MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                  | 42.49            | QP          | 144              | 1.8        | H     | -11.62           | 30.87               | 46.00    | -15.13 |
| 223.45                                  | 35.81            | QP          | 209              | 1.5        | V     | -11.62           | 24.19               | 46.00    | -21.81 |
| 4502.58                                 | 50.65            | PK          | 175              | 1.4        | H     | -2.03            | 48.62               | 74.00    | -25.38 |
| 4502.58                                 | 37.51            | Ave         | 175              | 1.4        | H     | -2.03            | 35.48               | 54.00    | -18.52 |
| 5134.47                                 | 51.59            | PK          | 346              | 1.6        | H     | -1.02            | 50.57               | 74.00    | -23.43 |
| 5134.47                                 | 39.46            | Ave         | 346              | 1.6        | H     | -1.02            | 38.44               | 54.00    | -15.56 |
| 10360.00                                | 41.71            | PK          | 206              | 2.0        | H     | 5.33             | 47.04               | 74.00    | -26.96 |
| 10360.00                                | 36.12            | Ave         | 206              | 2.0        | H     | 5.33             | 41.45               | 54.00    | -12.55 |
| 5370.71                                 | 45.79            | PK          | 3                | 1.6        | H     | -1.21            | 44.58               | 74.00    | -29.42 |
| 5370.71                                 | 38.68            | Ave         | 3                | 1.6        | H     | -1.21            | 37.47               | 54.00    | -16.53 |

| Frequency                               | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-----------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                         |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                   | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band I Low Channel 5200MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                  | 42.55            | QP          | 318              | 1.4        | H     | -11.62           | 30.93               | 46.00    | -15.07 |
| 223.45                                  | 37.18            | QP          | 63               | 1.4        | V     | -11.62           | 25.56               | 46.00    | -20.44 |
| 4532.20                                 | 49.75            | PK          | 340              | 1.9        | H     | -1.94            | 47.81               | 74.00    | -26.19 |
| 4532.20                                 | 37.75            | Ave         | 340              | 1.9        | H     | -1.94            | 35.81               | 54.00    | -18.19 |
| 5135.46                                 | 53.43            | PK          | 254              | 1.4        | H     | -1.06            | 52.37               | 74.00    | -21.63 |
| 5135.46                                 | 41.20            | Ave         | 254              | 1.4        | H     | -1.06            | 40.14               | 54.00    | -13.86 |
| 10400.00                                | 42.57            | PK          | 86               | 1.2        | H     | 5.21             | 47.78               | 74.00    | -26.22 |
| 10400.00                                | 34.74            | Ave         | 86               | 1.2        | H     | 5.21             | 39.95               | 54.00    | -14.05 |
| 5374.31                                 | 45.18            | PK          | 4                | 1.5        | H     | -1.37            | 43.81               | 74.00    | -30.19 |
| 5374.31                                 | 39.05            | Ave         | 4                | 1.5        | H     | -1.37            | 37.68               | 54.00    | -16.32 |

| Frequency                               | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|-----------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                                         |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                                   | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 802.11n HT20 band I Low Channel 5240MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                                  | 43.71            | QP          | 57               | 1.5        | H     | -11.62           | 32.09               | 46.00          | -13.91 |
| 223.45                                  | 38.58            | QP          | 180              | 1.6        | V     | -11.62           | 26.96               | 46.00          | -19.04 |
| 4509.34                                 | 50.66            | PK          | 106              | 1.3        | H     | -2.24            | 48.42               | 74.00          | -25.58 |
| 4509.34                                 | 38.15            | Ave         | 106              | 1.3        | H     | -2.24            | 35.91               | 54.00          | -18.09 |
| 5138.73                                 | 54.84            | PK          | 71               | 1.3        | H     | -1.09            | 53.75               | 74.00          | -20.25 |
| 5138.73                                 | 41.70            | Ave         | 71               | 1.3        | H     | -1.09            | 40.61               | 54.00          | -13.39 |
| 10480.00                                | 41.60            | PK          | 102              | 1.0        | H     | 5.14             | 46.74               | 74.00          | -27.26 |
| 10480.00                                | 36.54            | Ave         | 102              | 1.0        | H     | 5.14             | 41.68               | 54.00          | -12.32 |
| 5387.89                                 | 46.99            | PK          | 37               | 1.4        | H     | -1.38            | 45.61               | 74.00          | -28.39 |
| 5387.89                                 | 37.49            | Ave         | 37               | 1.4        | H     | -1.38            | 36.11               | 54.00          | -17.89 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**U-NII-2A****Test Frequency: 30MHz ~ 18GHz**

| Frequency                                | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                          |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                    | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band II Low Channel 5260MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                   | 44.10            | QP          | 96               | 1.4        | H     | -11.62           | 32.48               | 46.00    | -13.52 |
| 223.45                                   | 36.17            | QP          | 285              | 1.8        | V     | -11.62           | 24.55               | 46.00    | -21.45 |
| 4528.35                                  | 48.93            | PK          | 97               | 1.2        | H     | -2.03            | 46.90               | 74.00    | -27.10 |
| 4528.35                                  | 36.44            | Ave         | 97               | 1.2        | H     | -2.03            | 34.41               | 54.00    | -19.59 |
| 5128.19                                  | 51.62            | PK          | 134              | 1.0        | H     | -1.02            | 50.60               | 74.00    | -23.40 |
| 5128.19                                  | 41.66            | Ave         | 134              | 1.0        | H     | -1.02            | 40.64               | 54.00    | -13.36 |
| 10520.00                                 | 42.38            | PK          | 110              | 1.3        | H     | 5.33             | 47.71               | 74.00    | -26.29 |
| 10520.00                                 | 33.52            | Ave         | 110              | 1.3        | H     | 5.33             | 38.85               | 54.00    | -15.15 |
| 5374.34                                  | 46.18            | PK          | 120              | 1.2        | H     | -1.21            | 44.97               | 74.00    | -29.03 |
| 5374.34                                  | 39.37            | Ave         | 120              | 1.2        | H     | -1.21            | 38.16               | 54.00    | -15.84 |

| Frequency                                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|---------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                             |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                       | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band II middle Channel 5280MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                      | 44.33            | QP          | 95               | 1.7        | H     | -11.62           | 32.71               | 46.00    | -13.29 |
| 223.45                                      | 35.01            | QP          | 146              | 1.3        | V     | -11.62           | 23.39               | 46.00    | -22.61 |
| 4518.21                                     | 48.55            | PK          | 20               | 1.7        | H     | -1.94            | 46.61               | 74.00    | -27.39 |
| 4518.21                                     | 36.00            | Ave         | 20               | 1.7        | H     | -1.94            | 34.06               | 54.00    | -19.94 |
| 5124.58                                     | 51.28            | PK          | 44               | 2.0        | H     | -1.06            | 50.22               | 74.00    | -23.78 |
| 5124.58                                     | 40.68            | Ave         | 44               | 2.0        | H     | -1.06            | 39.62               | 54.00    | -14.38 |
| 10560.00                                    | 43.47            | PK          | 357              | 1.2        | H     | 5.21             | 48.68               | 74.00    | -25.32 |
| 10560.00                                    | 32.33            | Ave         | 357              | 1.2        | H     | 5.21             | 37.54               | 54.00    | -16.46 |
| 5368.52                                     | 46.26            | PK          | 325              | 1.5        | H     | -1.37            | 44.89               | 74.00    | -29.11 |
| 5368.52                                     | 37.11            | Ave         | 325              | 1.5        | H     | -1.37            | 35.74               | 54.00    | -18.26 |

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band II High Channel 5320MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                    | 43.57            | QP          | 139              | 1.6        | H     | -11.62           | 31.95               | 46.00    | -14.05 |
| 223.45                                    | 34.54            | QP          | 139              | 1.3        | V     | -11.62           | 22.92               | 46.00    | -23.08 |
| 4511.79                                   | 47.75            | PK          | 324              | 2.0        | H     | -2.24            | 45.51               | 74.00    | -28.49 |
| 4511.79                                   | 37.15            | Ave         | 324              | 2.0        | H     | -2.24            | 34.91               | 54.00    | -19.09 |
| 5118.94                                   | 53.08            | PK          | 145              | 1.5        | H     | -1.09            | 51.99               | 74.00    | -22.01 |
| 5118.94                                   | 41.88            | Ave         | 145              | 1.5        | H     | -1.09            | 40.79               | 54.00    | -13.21 |
| 10640.00                                  | 43.22            | PK          | 224              | 1.5        | H     | 5.14             | 48.36               | 68.20    | -19.84 |
| 10640.00                                  | 32.02            | Ave         | 224              | 1.5        | H     | 5.14             | 37.16               | 54.00    | -16.84 |
| 5356.90                                   | 46.37            | PK          | 337              | 1.0        | H     | -1.38            | 44.99               | 74.00    | -29.01 |
| 5356.90                                   | 38.38            | Ave         | 337              | 1.0        | H     | -1.38            | 37.00               | 54.00    | -17.00 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**U-NII-2C****Test Frequency: 30MHz ~ 18GHz**

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band III Low Channel 5500MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                    | 39.79            | QP          | 14               | 1.3        | H     | -11.62           | 28.17               | 46.00    | -17.83 |
| 223.45                                    | 40.20            | QP          | 62               | 1.0        | V     | -11.62           | 28.58               | 46.00    | -17.42 |
| 4535.19                                   | 43.56            | PK          | 117              | 1.6        | H     | -2.03            | 41.53               | 74.00    | -32.47 |
| 4535.19                                   | 42.10            | Ave         | 117              | 1.6        | H     | -2.03            | 40.07               | 54.00    | -13.93 |
| 5145.23                                   | 47.81            | PK          | 360              | 1.7        | H     | -1.02            | 46.79               | 74.00    | -27.21 |
| 5145.23                                   | 39.34            | Ave         | 360              | 1.7        | H     | -1.02            | 38.32               | 54.00    | -15.68 |
| 11000.00                                  | 41.33            | PK          | 197              | 1.5        | H     | 5.33             | 46.66               | 68.20    | -21.54 |
| 11000.00                                  | 36.64            | Ave         | 197              | 1.5        | H     | 5.33             | 41.97               | 54.00    | -12.03 |
| 5375.21                                   | 45.78            | PK          | 321              | 1.9        | H     | -1.21            | 44.57               | 74.00    | -29.43 |
| 5375.21                                   | 39.61            | Ave         | 321              | 1.9        | H     | -1.21            | 38.40               | 54.00    | -15.60 |

| Frequency                                    | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|----------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                                              |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                                        | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 802.11n HT20 band III middle channel 5600MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                                       | 40.23            | QP          | 63               | 1.7        | H     | -11.62           | 28.61               | 46.00          | -17.39 |
| 223.45                                       | 40.64            | QP          | 306              | 1.4        | V     | -11.62           | 29.02               | 46.00          | -16.98 |
| 4538.20                                      | 42.87            | PK          | 141              | 1.8        | H     | -1.94            | 40.93               | 74.00          | -33.07 |
| 4538.20                                      | 42.09            | Ave         | 141              | 1.8        | H     | -1.94            | 40.15               | 54.00          | -13.85 |
| 5145.28                                      | 49.04            | PK          | 288              | 2.0        | H     | -1.06            | 47.98               | 74.00          | -26.02 |
| 5145.28                                      | 39.46            | Ave         | 288              | 2.0        | H     | -1.06            | 38.40               | 54.00          | -15.60 |
| 11200.00                                     | 40.20            | PK          | 2                | 1.8        | H     | 5.21             | 45.41               | 68.20          | -22.79 |
| 11200.00                                     | 37.69            | Ave         | 2                | 1.8        | H     | 5.21             | 42.90               | 54.00          | -11.10 |
| 5382.82                                      | 46.17            | PK          | 222              | 1.3        | H     | -1.37            | 44.80               | 74.00          | -29.20 |
| 5382.82                                      | 38.78            | Ave         | 222              | 1.3        | H     | -1.37            | 37.41               | 54.00          | -16.59 |

| Frequency                                  | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|--------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                            |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                      | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band III High channel 5700MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                     | 40.43            | QP          | 261              | 1.4        | H     | -11.62           | 28.81               | 46.00    | -17.19 |
| 223.45                                     | 40.39            | QP          | 130              | 1.3        | V     | -11.62           | 28.77               | 46.00    | -17.23 |
| 4532.54                                    | 42.53            | PK          | 132              | 1.4        | H     | -2.24            | 40.29               | 74.00    | -33.71 |
| 4532.54                                    | 41.14            | Ave         | 132              | 1.4        | H     | -2.24            | 38.90               | 54.00    | -15.10 |
| 5112.43                                    | 48.64            | PK          | 225              | 1.0        | H     | -1.09            | 47.55               | 74.00    | -26.45 |
| 5112.43                                    | 40.32            | Ave         | 225              | 1.0        | H     | -1.09            | 39.23               | 54.00    | -14.77 |
| 11400.00                                   | 40.44            | PK          | 285              | 1.5        | H     | 5.14             | 45.58               | 68.20    | -22.62 |
| 11400.00                                   | 36.15            | Ave         | 285              | 1.5        | H     | 5.14             | 41.29               | 54.00    | -12.71 |
| 5350.08                                    | 46.49            | PK          | 44               | 2.0        | H     | -1.38            | 45.11               | 74.00    | -28.89 |
| 5350.08                                    | 37.97            | Ave         | 44               | 2.0        | H     | -1.38            | 36.59               | 54.00    | -17.41 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**U-NII-3****Test Frequency: 30MHz ~ 18GHz**

| Frequency                                | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                          |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                    | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band IV low Channel 5745MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                   | 40.61            | QP          | 66               | 1.6        | H     | -11.62           | 28.99               | 46.00    | -17.01 |
| 223.45                                   | 40.91            | QP          | 232              | 1.8        | V     | -11.62           | 29.29               | 46.00    | -16.71 |
| 4506.70                                  | 44.83            | PK          | 294              | 1.1        | H     | -2.06            | 42.77               | 74.00    | -31.23 |
| 4506.70                                  | 42.95            | Ave         | 294              | 1.1        | H     | -2.06            | 40.89               | 54.00    | -13.11 |
| 11490.00                                 | 47.87            | PK          | 144              | 1.7        | H     | 5.93             | 53.80               | 68.20    | -14.40 |
| 11490.00                                 | 31.48            | Ave         | 144              | 1.7        | H     | 5.93             | 37.41               | 54.00    | -16.59 |
| 5380.03                                  | 41.23            | PK          | 40               | 1.8        | H     | -1.25            | 39.98               | 74.00    | -34.02 |
| 5380.03                                  | 36.37            | Ave         | 40               | 1.8        | H     | -1.25            | 35.12               | 54.00    | -18.88 |
| 5457.23                                  | 46.10            | PK          | 230              | 1.5        | H     | -1.36            | 44.74               | 74.00    | -29.26 |
| 5457.23                                  | 38.50            | Ave         | 230              | 1.5        | H     | -1.36            | 37.14               | 54.00    | -16.86 |

| Frequency                                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit          | Margin |
|---------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------------|--------|
|                                             |                  |             |                  | Height     | Polar |                  |                     |                |        |
| (MHz)                                       | (dB $\mu$ V)     | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dB $\mu$ V/m)      | (dB $\mu$ V/m) | (dB)   |
| 802.11n HT20 band IV middle channel 5785MHz |                  |             |                  |            |       |                  |                     |                |        |
| 223.45                                      | 39.41            | QP          | 82               | 1.2        | H     | -11.62           | 27.79               | 46.00          | -18.21 |
| 223.45                                      | 42.02            | QP          | 69               | 1.0        | V     | -11.62           | 30.40               | 46.00          | -15.60 |
| 4530.81                                     | 43.39            | PK          | 103              | 1.6        | H     | -2.03            | 41.36               | 74.00          | -32.64 |
| 4530.81                                     | 41.54            | Ave         | 103              | 1.6        | H     | -2.03            | 39.51               | 54.00          | -14.49 |
| 11570.00                                    | 41.14            | PK          | 18               | 1.3        | H     | 5.81             | 46.95               | 68.20          | -21.25 |
| 11570.00                                    | 38.20            | Ave         | 18               | 1.3        | H     | 5.81             | 44.01               | 54.00          | -9.99  |
| 5361.80                                     | 45.64            | PK          | 20               | 1.4        | H     | -1.22            | 44.42               | 74.00          | -29.58 |
| 5361.80                                     | 37.55            | Ave         | 20               | 1.4        | H     | -1.22            | 36.33               | 54.00          | -17.67 |
| 5430.06                                     | 46.86            | PK          | 109              | 1.8        | H     | -1.36            | 45.50               | 74.00          | -28.50 |
| 5430.06                                     | 39.14            | Ave         | 109              | 1.8        | H     | -1.36            | 37.78               | 54.00          | -16.22 |

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | Limit    | Margin |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|----------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     |          |        |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m) | (dB)   |
| 802.11n HT20 band IV High channel 5825MHz |                  |             |                  |            |       |                  |                     |          |        |
| 223.45                                    | 38.22            | QP          | 75               | 1.7        | H     | -11.62           | 26.60               | 46.00    | -19.40 |
| 223.45                                    | 40.74            | QP          | 259              | 1.5        | V     | -11.62           | 29.12               | 46.00    | -16.88 |
| 4505.31                                   | 43.57            | PK          | 170              | 1.5        | H     | -1.84            | 41.73               | 74.00    | -32.27 |
| 4505.31                                   | 40.89            | Ave         | 170              | 1.5        | H     | -1.84            | 39.05               | 54.00    | -14.95 |
| 11650.00                                  | 42.59            | PK          | 96               | 1.3        | H     | 5.84             | 48.43               | 68.20    | -19.77 |
| 11650.00                                  | 37.75            | Ave         | 96               | 1.3        | H     | 5.84             | 43.59               | 54.00    | -10.41 |
| 5383.14                                   | 45.33            | PK          | 221              | 1.1        | H     | -1.30            | 44.03               | 74.00    | -29.97 |
| 5383.14                                   | 39.39            | Ave         | 221              | 1.1        | H     | -1.30            | 38.09               | 54.00    | -15.91 |
| 5450.45                                   | 45.96            | PK          | 106              | 1.7        | H     | -1.36            | 44.60               | 74.00    | -29.40 |
| 5450.45                                   | 37.55            | Ave         | 106              | 1.7        | H     | -1.36            | 36.19               | 54.00    | -17.81 |

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

## **8 Photographs of test setup and EUT.**

Note: Please refer to appendix: Appendix- SX-SDMAC-2832S+-Photos.

=====End of Report=====