



# FCC TEST REPORT

## FCC ID: 2BG9S-YR108T

|                                                                               |   |                                                                                           |
|-------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------|
| Product                                                                       | : | android tablet                                                                            |
| Model Name                                                                    | : | YR108T                                                                                    |
| Serial model                                                                  | : | XR808T, YR156T, YR215T, ZR238T, ZR270T, ZR320T, R37T, R430T, R490T, R550T, HP101T, HP133T |
| Brand                                                                         | : | N/A                                                                                       |
| Report No.                                                                    | : | PTC24060500701E-FC04                                                                      |
| <b>Prepared for</b>                                                           |   |                                                                                           |
| The Looma Project                                                             |   |                                                                                           |
| 5540 Centerview Dr Ste 204 PMB 68853 Raleigh, NC 27606-8012 United States     |   |                                                                                           |
| <b>Prepared by</b>                                                            |   |                                                                                           |
| Precise Testing & Certification Co., Ltd                                      |   |                                                                                           |
| Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China |   |                                                                                           |



## 1 TEST RESULT CERTIFICATION

Applicant's name : The Looma Project

Address : 5540 Centerview Dr Ste 204 PMB 68853 Raleigh, NC 27606-8012  
United States

Manufacture's name : E-BUSINESS INTERNATIONAL

Address : 15244 NW GREENBRIER PKWY BEAVERTON, OR 97006

Product name : android tablet

Model name : YR108T

Serial model : XR808T, YR156T, YR215T, ZR238T, ZR270T, ZR320T, R37T,  
R430T, R490T, R550T, HP101T, HP133T

Standards : FCC CFR47 Part 15 Section 15.407

Test procedure : ANSI C63.10:2013

Test Date : Jun. 27, 2024 to Jul. 9, 2024

Date of Issue : Jul. 25, 2024

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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## 2 Test Summary

| Test Items                      | Test Requirement                 | Result |
|---------------------------------|----------------------------------|--------|
| Conduct Emission                | 15.207                           | PASS   |
| Radiated Spurious Emissions     | 15.205(a)<br>15.209<br>15.407(b) | PASS   |
| Emission and Occupied Bandwidth | 15.407(a)(e)                     | PASS   |
| Maximum Conducted Output Power  | 15.407(a)                        | PASS   |
| Power Spectral Density          | 15.407(a)                        | PASS   |
| Frequency stability             | 15.407 (g)                       | PASS   |
| Antenna Requirement             | 15.203                           | PASS   |



### 3 General Information

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

|                         |   |                                                                                                                                                                                                  |
|-------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name            | : | android tablet                                                                                                                                                                                   |
| Model Name              | : | YR108T                                                                                                                                                                                           |
| Additional model        | : | XR808T, YR156T, YR215T, ZR238T, ZR270T, ZR320T, R37T, R430T, R490T, R550T, HP101T, HP133T                                                                                                        |
| Differences Description | : | The only difference is the model names.                                                                                                                                                          |
| Specification           | : | 802.11a/n HT20/HT40/ac20/ac40                                                                                                                                                                    |
| Operation Frequency     | : | 5G Wi-Fi:5180-5240 MHz<br>5.8G Wi-Fi:5745MHz~5825MHz                                                                                                                                             |
| Number of Channel       | : | 4 channels for 802.11a/n20/ac20 5180-5240 MHz<br>5 channels for 802.11a/n20/ac20 5745MHz~5825MHz<br>2 channels for 802.11n40/ac40 5180-5240 MHz<br>2 channels for 802.11n40/ac40 5745MHz~5825MHz |
| Type of Modulation      | : | OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n/a/ac                                                                                                                                               |
| Antenna installation    | : | PCB Antenna                                                                                                                                                                                      |
| Antenna Gain            | : | 5.2G:2.98 dBi<br>5.8G:2.37 dBi                                                                                                                                                                   |
| Rated Power Supply      | : | Adapter:JML-1202000-LW<br>Input: 100-240V~50/60Hz 0.8A<br>Output: 12.0V $\overline{\text{---}}$ 2.0A                                                                                             |
| Hardware Version        | : | RK3568                                                                                                                                                                                           |
| Software Version        | : | XB-RK3568DF-SU-EN-05Y108-HNH9365-EDITION11-20240622                                                                                                                                              |
| Test sample No.         | : | PTC24060500701E-1/2, PTC24060500701E-2/2                                                                                                                                                         |



### 3.2 Channel List

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11a: 6 Mbps; 802.11n (HT20): MCS0; 802.11ac: MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11 a/N20/N40/AC20/AC40

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|
| 36      | 5180               | 46      | 5230               | 153     | 5765               |
| 38      | 5190               | 48      | 5240               | 157     | 5785               |
| 40      | 5200               | 149     | 5745               | 159     | 5795               |
| 44      | 5220               | 151     | 5755               | 161     | 5805               |
|         |                    |         |                    | 165     | 5825               |



The maximum duty cycle as following table:

| Test Mode    | Duty Cycle(%) |
|--------------|---------------|
| 802.11a      | 100%          |
| 802.11n/ac20 | 100%          |
| 802.11n/ac40 | 100%          |

### 3.3 Test Site

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number: CN1219





## 4 Equipment During Test

### 4.1 Equipments List

RF Conducted Test

| Name of Equipment   | Manufacturer | Model        | Serial No.    | Characteristics   | Last Calibration | Calibration Interval |
|---------------------|--------------|--------------|---------------|-------------------|------------------|----------------------|
| MXG Signal Analyzer | Agilent      | N9020A       | SER MY5111038 | 10Hz-26.5GHz      | Aug.17, 2023     | 1 Year               |
| Coaxial Cable       | CDS          | 79254        | 46107086      | 10Hz-30GHz        | Aug.17, 2023     | 1 Year               |
| Power Meter         | Anritsu      | ML2495A      | 0949003       | 300MHz-40GHz      | Aug.17, 2023     | 1 Year               |
| Power Sensor        | Anritsu      | MA2411B      | 0917017       | 300MHz-40GHz      | Aug.17, 2023     | 1 Year               |
| DC power Supply     | Agilent      | E3642A       | MY52420017    | 0-8V,5A/0-20,2.5A | Aug.17, 2023     | 1 Year               |
| Humidity Chamber    | AISRY        | ASR-HW2-1000 | 20230926003   | -40℃-150℃         | Feb.23, 2024     | 1year                |
| Test S/W            | Tonscend     | JS1120-3     | /             | /                 | /                | /                    |

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

| Name of Equipment            | Manufacturer  | Model        | Serial No.       | Characteristics | Last Calibration | Calibration Interval |
|------------------------------|---------------|--------------|------------------|-----------------|------------------|----------------------|
| EMI Test Receiver            | Rohde&Schwarz | ESPI7        | 101671           | 9KHz-7GHz       | Aug. 17,2023     | 1 Year               |
| Loop Antenna                 | Schwarzbeck   | FMZB 1519    | 192              | 9 KHz -30MHz    | Aug. 17,2023     | 1 Year               |
| Bilog Antenna                | SCHWARZBECK   | VULB9160     | 9160-3355        | 25MHz-2GHz      | Aug. 17,2023     | 1 Year               |
| Preamplifier (low frequency) | SCHWARZBECK   | BBV 9475     | 9745-0013        | 1MHz-1GHz       | Aug. 17,2023     | 1 Year               |
| Cable                        | IMRO          | AK-9515E(9m) | Cable-L          | 9KHz-3GHz       | Aug. 17,2023     | 1 Year               |
| Spectrum Analyzer            | Rohde&Schwarz | FSV40        | 6625-01-588-5515 | 9KHz-40GHz      | Aug. 17,2023     | 1 Year               |



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|                 |             |           |            |              |               |        |
|-----------------|-------------|-----------|------------|--------------|---------------|--------|
| Horn Antenna    | SCHWARZBECK | 9120D     | 9120D-1246 | 1GHz-18GHz   | Aug. 17,2023  | 1 Year |
| Power Amplifier | ZHINAN      | ZN3380C   | 15002      | 1GHz-26.5GHz | Aug. 17,2023  | 1 Year |
| Horn Antenna    | SCHWARZBECK | BBHA 9170 | 9170-1066  | 15GHz-40GHz  | Jul. 19, 2023 | 1 Year |
| Amplifier       | SCHWARZBECK | BBV 9721  | 9721-205   | 18GHz-40GHz  | Jul. 19, 2023 | 1 Year |
| Cable           | H+S         | CBL-26    | N/A        | 1GHz-26.5GHz | Aug. 17,2023  | 1 Year |
| RF Cable        | R&S         | R204      | R21X       | 1GHz-40GHz   | Aug. 17,2023  | 1 Year |
| Test S/W        | Tonscend    | TS+       | /          | /            | /             | /      |

#### Conducted Emissions

| Name of Equipment        | Manufacturer    | Model   | Serial No.             | Characteristics | Calibration Date | Calibration Interval |
|--------------------------|-----------------|---------|------------------------|-----------------|------------------|----------------------|
| EMI Test Receiver        | Rohde&Schwarz   | ESCI    | 101417                 | 9KHz-3GHz       | Aug. 17, 2023    | 1 Year               |
| Artificial Mains Network | Rohde&Schwarz   | ENV216  | 102453                 | 9KHz-300MHz     | Aug. 17, 2023    | 1 Year               |
| Artificial Mains Network | Rohde&Schwarz   | ENV216  | 101342                 | 9KHz-300MHz     | Aug. 17, 2023    | 1 Year               |
| Limiter                  | R&S             | ESH3-Z2 | 0357.8810.54-102808-NB | 0Hz-30MHz       | Aug. 16,2023     | 1 Year               |
| RF Switch                | DIAMOND ANTENNA | CX-210  | /                      | 0.09MHz-6GHz    | Mar. 22,2024     | 1 Year               |
| Test S/W                 | Tonscend        | JS32-CE | /                      | /               | /                | /                    |



## 4.2 Measurement Uncertainty

| Parameter                          | Uncertainty              |
|------------------------------------|--------------------------|
| RF output power, conducted         | $\pm 1.0\text{dB}$       |
| Power Spectral Density, conducted  | $\pm 2.2\text{dB}$       |
| Radio Frequency                    | $\pm 1 \times 10^{-6}$   |
| Bandwidth                          | $\pm 1.5 \times 10^{-6}$ |
| Time                               | $\pm 2\%$                |
| Duty Cycle                         | $\pm 2\%$                |
| Temperature                        | $\pm 1^\circ\text{C}$    |
| Humidity                           | $\pm 5\%$                |
| DC and low frequency voltages      | $\pm 3\%$                |
| Conducted Emissions (150kHz~30MHz) | $\pm 3.64\text{dB}$      |
| Radiated Emission(9kHz~30MHz)      | $\pm 3.15\text{dB}$      |
| Radiated Emission(30MHz~1GHz)      | $\pm 5.03\text{dB}$      |
| Radiated Emission(1GHz~18GHz)      | $\pm 4.74\text{dB}$      |
| Radiated Emission(18GHz~40GHz)     | $\pm 3.20\text{dB}$      |



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#### 4.3 Description of Support Units

| Equipment | Model No. | Series No.   | Parameters |
|-----------|-----------|--------------|------------|
| Mouse     | OP-300    | SA8177323    | N/A        |
| Keyboard  | G2        | SA8173709103 | N/A        |

## 5 Conducted Emission

|                   |                                     |
|-------------------|-------------------------------------|
| Test Requirement: | : FCC CFR 47 Part 15 Section 15.207 |
| Test Method       | : ANSI C63.10: 2013                 |
| Test Result       | : PASS                              |
| Frequency Range   | : 150kHz to 30MHz                   |
| Class/Severity    | : Class B                           |

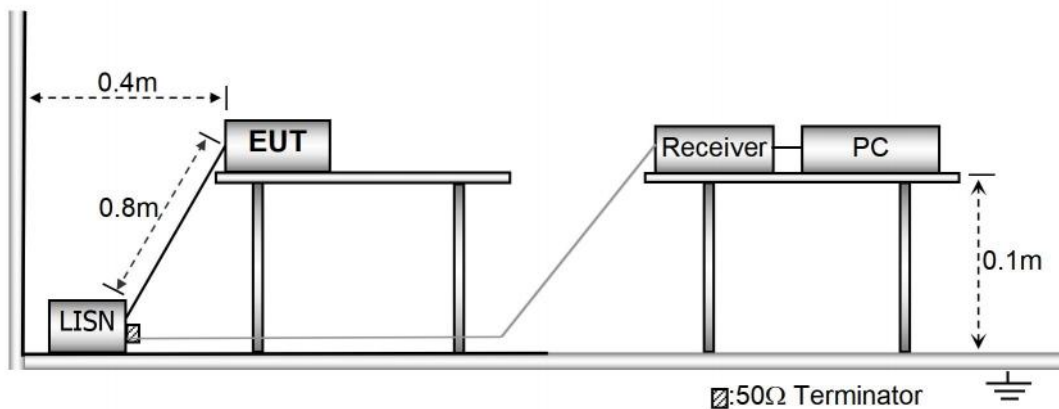
### 5.1 E.U.T. Operation

Operating Environment :

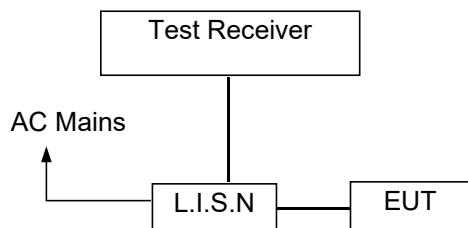
|                      |             |
|----------------------|-------------|
| Temperature          | : 23.9 °C   |
| Humidity             | : 51.4 % RH |
| Atmospheric Pressure | : 101.21kPa |

### 5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



### 5.3 Test SET-UP (Block Diagram of Configuration)



### 5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.1m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

### 5.5 Conducted Emission Limit

#### Conducted Emission

| Frequency(MHz) | Quasi-peak | Average |
|----------------|------------|---------|
| 0.15-0.5       | 66-56      | 56-46   |
| 0.5-5.0        | 56         | 46      |
| 5.0-30.0       | 60         | 50      |

#### Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 5.6 Measurement Description

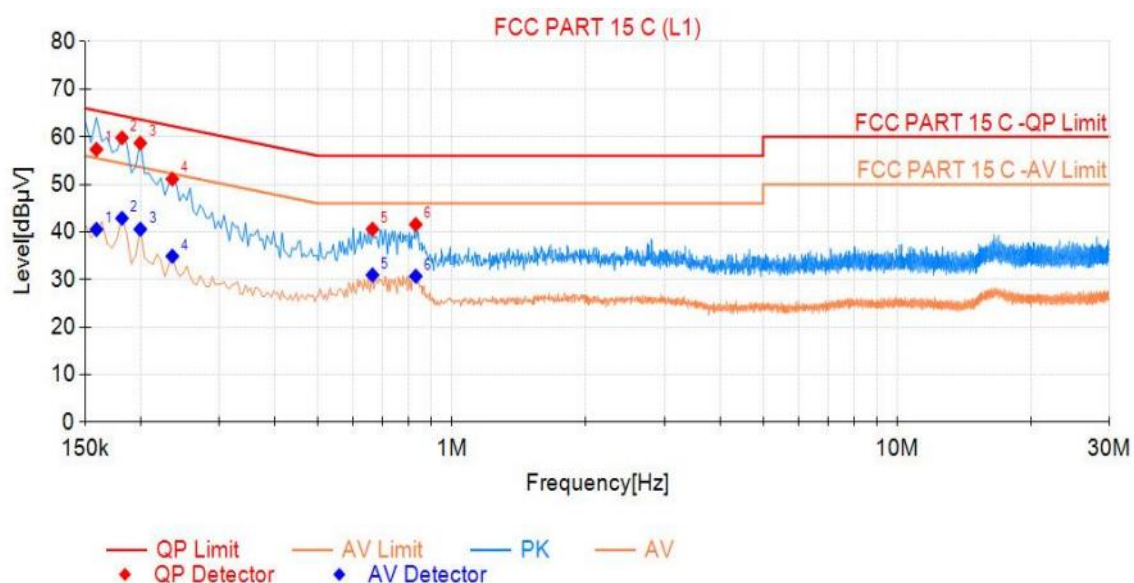
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

### 5.7 Conducted Emission Test Result

Pass.

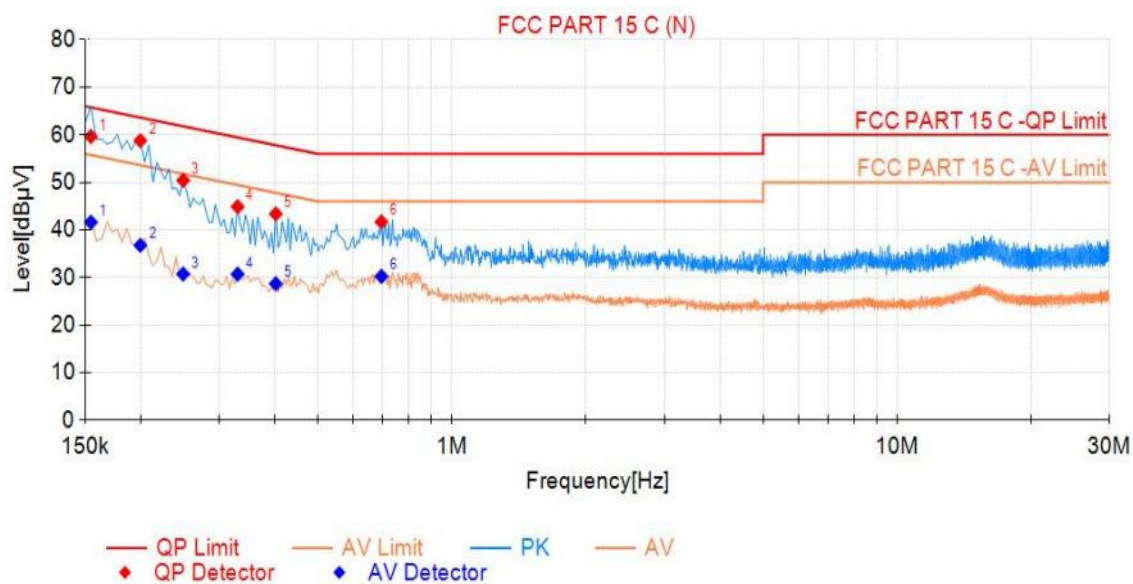
All the modulation modes were tested the data of the worst mode (AC 120V/60Hz, TX 5180MHz) are recorded in the following pages and the others modulation methods do not exceed the limits.

Line-AC 120V/60Hz



| Final Data List |            |                   |             |                 |                 |                |                   |                 |                 |                |         |
|-----------------|------------|-------------------|-------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| NO              | Freq [MHz] | QP Reading [dBμV] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
| 1               | 0.159      | 38.14             | 19.21       | 57.35           | 65.52           | 8.17           | 21.32             | 40.53           | 55.52           | 14.99          | PASS    |
| 2               | 0.182      | 40.61             | 19.18       | 59.79           | 64.42           | 4.63           | 23.70             | 42.88           | 54.42           | 11.54          | PASS    |
| 3               | 0.200      | 39.53             | 19.15       | 58.68           | 63.63           | 4.95           | 21.43             | 40.58           | 53.63           | 13.05          | PASS    |
| 4               | 0.236      | 31.98             | 19.13       | 51.11           | 62.25           | 11.14          | 15.78             | 34.91           | 52.25           | 17.34          | PASS    |
| 5               | 0.663      | 21.32             | 19.27       | 40.59           | 56.00           | 15.41          | 11.69             | 30.96           | 46.00           | 15.04          | PASS    |
| 6               | 0.830      | 22.30             | 19.27       | 41.57           | 56.00           | 14.43          | 11.44             | 30.71           | 46.00           | 15.29          | PASS    |

Neutral-AC 120V/60Hz



| Final Data List |             |                   |             |                 |                 |                |                   |                 |                 |                |         |
|-----------------|-------------|-------------------|-------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| NO.             | Freq. [MHz] | QP Reading [dBμV] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
| 1               | 0.155       | 40.65             | 19.01       | 59.66           | 65.75           | 6.09           | 22.63             | 41.64           | 55.75           | 14.11          | PASS    |
| 2               | 0.200       | 39.70             | 19.08       | 58.78           | 63.63           | 4.85           | 17.71             | 36.79           | 53.63           | 16.84          | PASS    |
| 3               | 0.249       | 31.38             | 19.05       | 50.43           | 61.79           | 11.36          | 11.69             | 30.74           | 51.79           | 21.05          | PASS    |
| 4               | 0.330       | 25.72             | 19.18       | 44.90           | 59.45           | 14.55          | 11.54             | 30.72           | 49.45           | 18.73          | PASS    |
| 5               | 0.402       | 24.18             | 19.20       | 43.38           | 57.81           | 14.43          | 9.51              | 28.71           | 47.81           | 19.10          | PASS    |
| 6               | 0.695       | 22.50             | 19.22       | 41.72           | 56.00           | 14.28          | 11.03             | 30.25           | 46.00           | 15.75          | PASS    |

Note: QP Margin[dB]= QP Limit[dBμV]- QP Value[dBμV], AV Margin[dB]= AV Limit[dBμV]- AV Value[dBμV].





## 6 Radiated Spurious Emissions

|                      |   |                                              |
|----------------------|---|----------------------------------------------|
| Test Requirement     | : | FCC CFR47 Part 15 Section 15.209 & 15.407(b) |
| Test Method          | : | ANSI C63.10:2013                             |
| Test Result          | : | PASS                                         |
| Measurement Distance | : | 3m                                           |
| Limit                |   |                                              |

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

Further.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits. As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz



As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

## 6.1 EUT Operation

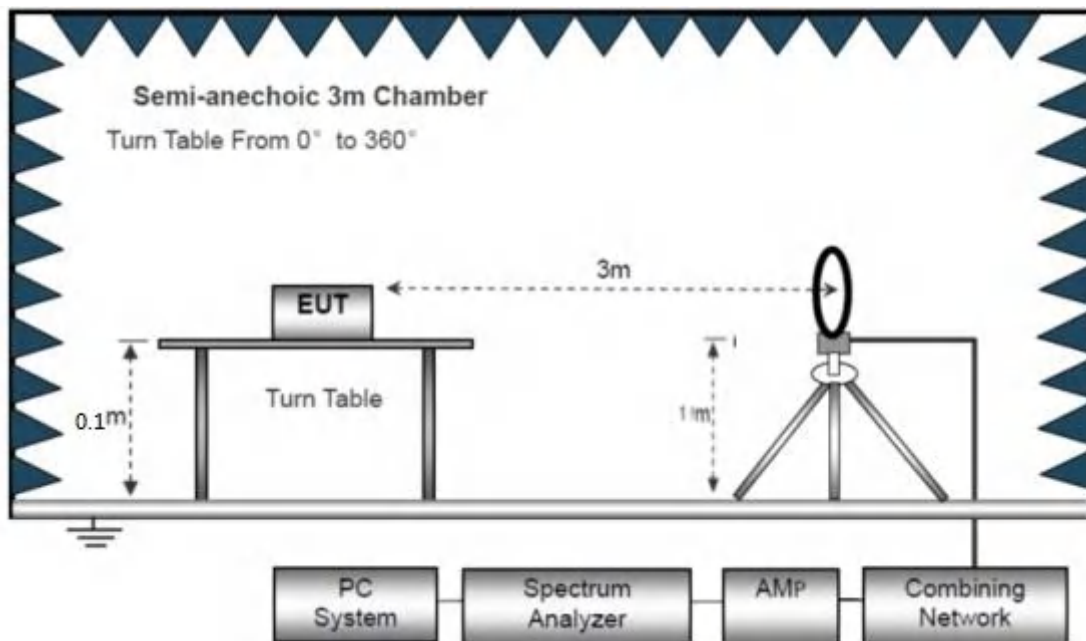
Operating Environment :

|                       |   |              |
|-----------------------|---|--------------|
| Temperature:          | : | 24.5 °C      |
| Humidity:             | : | 52 % RH      |
| Atmospheric Pressure: | : | 101.3kPa     |
| Test Voltage          | : | AC 120V 60Hz |

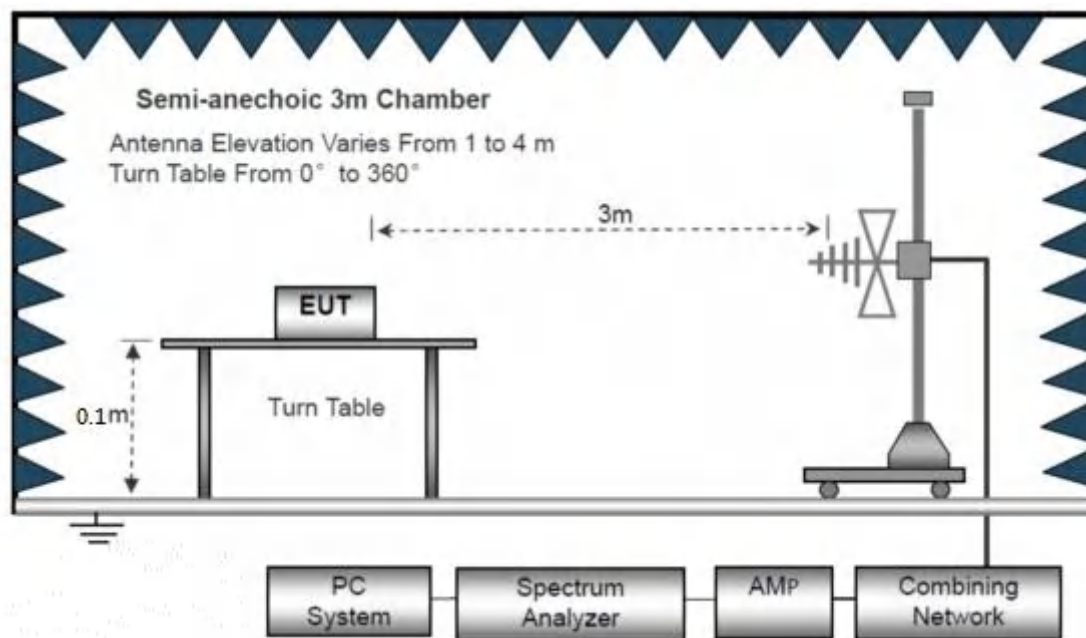
## 6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

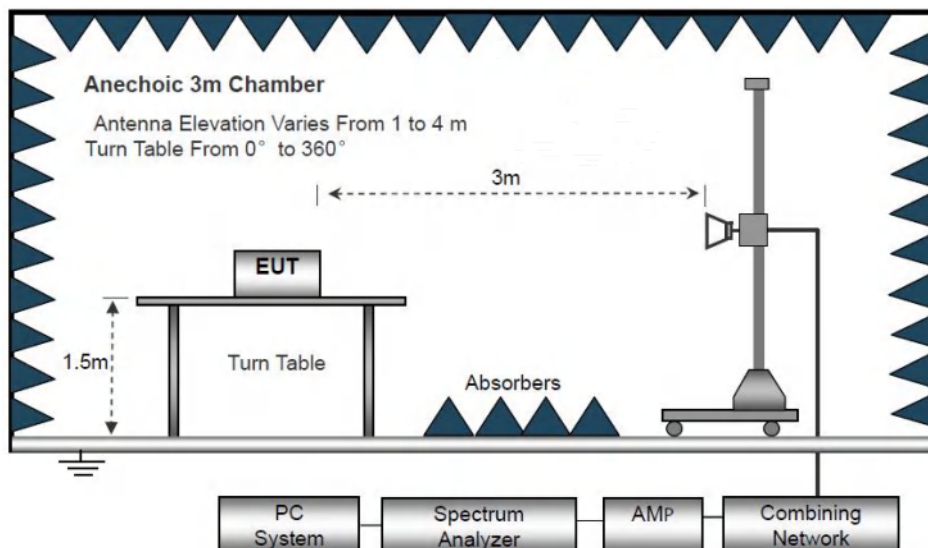
The test setup for emission measurement below 30MHz



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



The test setup for emission measurement above 1 GHz



### 6.3 Spectrum Analyzer Setup

|                | Frequency    | Detector   | RBW    | VBW    | Remark           |
|----------------|--------------|------------|--------|--------|------------------|
| Receiver Setup | Below 30MHz  | --         | 10kHz  | 10kHz  | --               |
|                | 30MHz ~ 1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak Value |
|                | Above 1GHz   | Peak       | 1MHz   | 3MHz   | Peak Value       |
|                |              | RMS        | 1MHz   | 3MHz   | Average Value    |



## 6.4 Test Procedure

1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
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. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
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 tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room



## 6.5 Summary of Test Results

### Test Frequency: 9KHz-30MHz

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Emission Level<br>(dBuV/m) | Limit 3m<br>(dBuV/m) | Over<br>(dB) |
|----------------|-----------------|----------------------------|----------------------|--------------|
| --             | --              | --                         | --                   | >20          |

#### Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =  $40\log(\text{Specific distance} / \text{test distance})$  (dB);

Limit line = Specific limits (dBuV) + distance extrapolation factor.

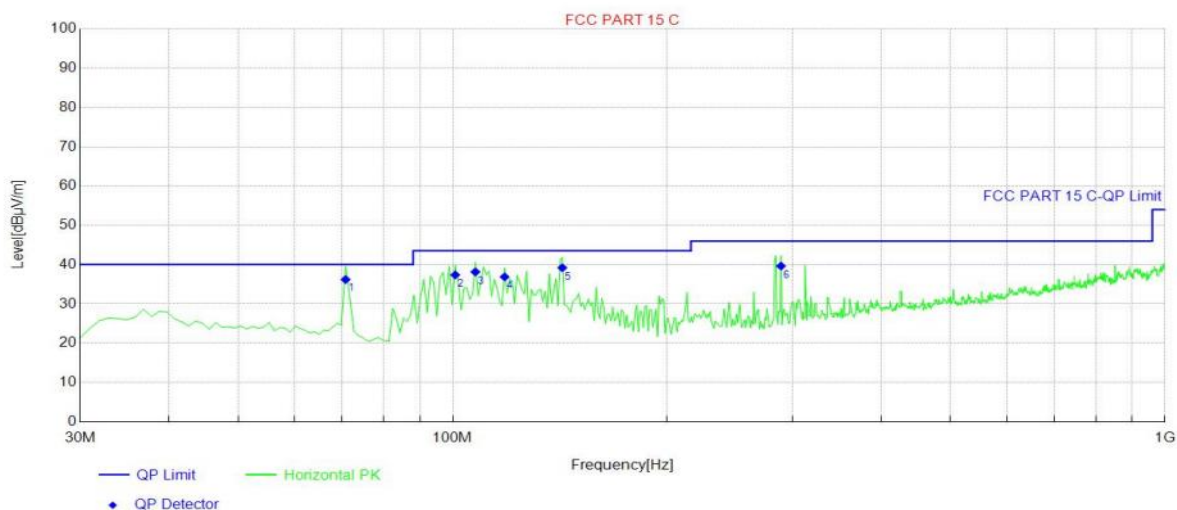
### Test Frequency: 30MHz ~ 1GHz

All the modulation modes were tested the data of the worst mode (TX 802.11a Channel 36, CH149) are recorded in the following pages and the others modulation methods do not exceed the limits.

Please refer to the following test plots:



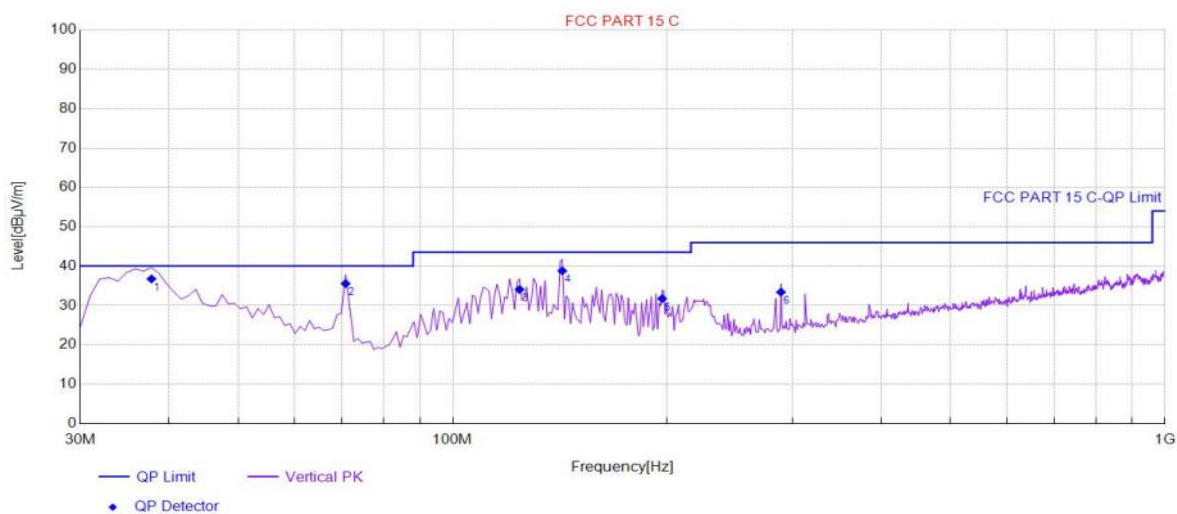
Antenna Polarization: Horizontal(CH36)



| Final Data List[QP] |             |                   |               |                   |                   |                |            |         |
|---------------------|-------------|-------------------|---------------|-------------------|-------------------|----------------|------------|---------|
| NO.                 | Freq. [MHz] | QP Reading [dBμV] | Factor [dB/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Polarity   | Verdict |
| 1                   | 70.74       | 55.44             | -19.25        | 36.19             | 40.00             | 3.81           | Horizontal | PASS    |
| 2                   | 100.81      | 57.26             | -19.89        | 37.37             | 43.50             | 6.13           | Horizontal | PASS    |
| 3                   | 107.60      | 57.28             | -19.15        | 38.13             | 43.50             | 5.37           | Horizontal | PASS    |
| 4                   | 118.27      | 55.32             | -18.45        | 36.87             | 43.50             | 6.63           | Horizontal | PASS    |
| 5                   | 142.52      | 55.34             | -16.15        | 39.19             | 43.50             | 4.31           | Horizontal | PASS    |
| 6                   | 288.99      | 55.82             | -16.20        | 39.62             | 46.00             | 6.38           | Horizontal | PASS    |

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

Antenna Polarization: Vertical (CH36)



| Final Data List[QP] |             |                   |               |                   |                   |                |          |         |
|---------------------|-------------|-------------------|---------------|-------------------|-------------------|----------------|----------|---------|
| NO.                 | Freq. [MHz] | QP Reading [dBμV] | Factor [dB/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Polarity | Verdict |
| 1                   | 37.76       | 53.91             | -17.17        | 36.74             | 40.00             | 3.26           | Vertical | PASS    |
| 2                   | 70.74       | 55.47             | -19.93        | 35.54             | 40.00             | 4.46           | Vertical | PASS    |
| 3                   | 124.09      | 51.90             | -17.84        | 34.06             | 43.50             | 9.44           | Vertical | PASS    |
| 4                   | 142.52      | 55.43             | -16.63        | 38.80             | 43.50             | 4.70           | Vertical | PASS    |
| 5                   | 196.84      | 51.58             | -19.86        | 31.72             | 43.50             | 11.78          | Vertical | PASS    |
| 6                   | 288.99      | 50.05             | -16.65        | 33.40             | 46.00             | 12.60          | Vertical | PASS    |

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

Note: only the worst case recorded in the report.





## Test Frequency: From 1GHz to 40GHz

Pre-scan all test modes

Only the worst case Main test data.

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| Test Mode: 5180 |                   |                       |                 |                    | Test channel: Lowest |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360           | 47.09             | 35.22                 | 5.36            | 31.25              | 56.42                | 68.20          | -11.78          | V    |
| 15540           | 42.11             | 35.96                 | 7.85            | 30.63              | 55.29                | 68.20          | -12.91          | V    |
| 20720           | 43.38             | 39.12                 | 8.56            | 34.95              | 56.11                | 68.20          | -12.09          | V    |
| 10360           | 48.22             | 34.12                 | 5.36            | 31.25              | 56.45                | 68.20          | -11.75          | H    |
| 15540           | 42.19             | 36.52                 | 7.85            | 30.63              | 55.93                | 68.20          | -12.27          | H    |
| 20720           | 43.02             | 40.01                 | 8.56            | 34.95              | 56.64                | 68.20          | -11.56          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360           | 33.34             | 35.22                 | 5.36            | 31.25              | 42.67                | 54.00          | -11.33          | V    |
| 15540           | 30.37             | 35.96                 | 7.85            | 30.63              | 43.55                | 54.00          | -10.45          | V    |
| 20720           | 28.16             | 39.12                 | 8.56            | 34.95              | 40.89                | 54.00          | -13.11          | V    |
| 10360           | 32.33             | 34.12                 | 5.36            | 31.25              | 40.56                | 54.00          | -13.44          | H    |
| 15540           | 24.42             | 36.52                 | 7.85            | 30.63              | 38.16                | 54.00          | -15.84          | H    |
| 20720           | 26.97             | 40.01                 | 8.56            | 34.95              | 40.59                | 54.00          | -13.41          | H    |



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| Test Mode:5200  |                   |                       |                 |                    | Test channel: Middle |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400           | 47.71             | 35.63                 | 5.36            | 31.25              | 57.45                | 68.20          | -10.75          | V    |
| 15600           | 43.59             | 35.91                 | 7.85            | 30.63              | 56.72                | 68.20          | -11.48          | V    |
| 20800           | 44.02             | 39.67                 | 8.56            | 34.95              | 57.30                | 68.20          | -10.90          | V    |
| 10400           | 46.73             | 34.25                 | 5.36            | 31.25              | 55.09                | 68.20          | -13.11          | H    |
| 15600           | 41.90             | 37.02                 | 7.85            | 30.63              | 56.14                | 68.20          | -12.06          | H    |
| 20800           | 43.56             | 38.88                 | 8.56            | 34.95              | 56.05                | 68.20          | -12.15          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400           | 33.90             | 35.63                 | 5.36            | 31.25              | 43.64                | 54.00          | -10.36          | V    |
| 15600           | 29.11             | 35.91                 | 7.85            | 30.63              | 42.24                | 54.00          | -11.76          | V    |
| 20800           | 29.30             | 39.67                 | 8.56            | 34.95              | 42.58                | 54.00          | -11.42          | V    |
| 10400           | 33.34             | 34.25                 | 5.36            | 31.25              | 41.70                | 54.00          | -12.30          | H    |
| 15600           | 28.98             | 37.02                 | 7.85            | 30.63              | 43.22                | 54.00          | -10.78          | H    |
| 20800           | 29.91             | 38.88                 | 8.56            | 34.95              | 42.40                | 54.00          | -11.60          | H    |



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| Test Mode:5240  |                   |                       |                 |                    | Test channel: High |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480           | 45.48             | 34.68                 | 5.36            | 31.25              | 54.27              | 68.20          | -13.93          | V    |
| 17520           | 43.32             | 36.52                 | 7.85            | 30.63              | 57.06              | 68.20          | -11.14          | V    |
| 20960           | 44.33             | 38.77                 | 8.56            | 34.95              | 56.71              | 68.20          | -11.49          | V    |
| 10480           | 46.72             | 33.99                 | 5.36            | 31.25              | 54.82              | 68.20          | -13.38          | H    |
| 17520           | 45.00             | 36.84                 | 7.85            | 30.63              | 59.06              | 68.20          | -9.14           | H    |
| 20960           | 46.46             | 39.93                 | 8.56            | 34.95              | 60.00              | 68.20          | -8.20           | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480           | 33.53             | 34.68                 | 5.36            | 31.25              | 42.32              | 54.00          | -11.68          | V    |
| 17520           | 29.15             | 36.52                 | 7.85            | 30.63              | 42.89              | 54.00          | -11.11          | V    |
| 20960           | 29.77             | 38.77                 | 8.56            | 34.95              | 42.15              | 54.00          | -11.85          | V    |
| 10480           | 32.55             | 33.99                 | 5.36            | 31.25              | 40.65              | 54.00          | -13.35          | H    |
| 17520           | 26.82             | 36.84                 | 7.85            | 30.63              | 40.88              | 54.00          | -13.12          | H    |
| 20960           | 29.46             | 39.93                 | 8.56            | 34.95              | 43.00              | 54.00          | -11.00          | H    |



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| Test Mode: 5745 |                   |                       |                 |                    | Test channel: Lowest |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490           | 47.87             | 35.26                 | 5.42            | 31.75              | 56.80                | 68.20          | -11.43          | V    |
| 17235           | 42.23             | 36.88                 | 7.32            | 30.96              | 55.47                | 68.20          | -12.76          | V    |
| 22980           | 44.03             | 39.14                 | 8.85            | 35.25              | 56.77                | 68.20          | -11.46          | V    |
| 11490           | 49.69             | 34.21                 | 5.42            | 31.75              | 57.57                | 68.20          | -10.66          | H    |
| 17235           | 44.52             | 37.52                 | 7.32            | 30.96              | 58.40                | 68.20          | -9.83           | H    |
| 22980           | 44.38             | 39.88                 | 8.85            | 35.25              | 57.86                | 68.20          | -10.37          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490           | 32.14             | 35.26                 | 5.42            | 31.75              | 41.07                | 54.00          | -12.93          | V    |
| 17235           | 29.81             | 36.88                 | 7.32            | 30.96              | 43.05                | 54.00          | -10.95          | V    |
| 22980           | 29.38             | 39.14                 | 8.85            | 35.25              | 42.12                | 54.00          | -11.88          | V    |
| 11490           | 31.75             | 34.21                 | 5.42            | 31.75              | 39.63                | 54.00          | -14.37          | H    |
| 17235           | 28.98             | 37.52                 | 7.32            | 30.96              | 42.86                | 54.00          | -11.14          | H    |
| 22980           | 29.15             | 39.88                 | 8.85            | 35.25              | 42.63                | 54.00          | -11.37          | H    |



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| Test Mode:5785  |                   |                       |                 |                    | Test channel: Middle |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570           | 48.27             | 35.26                 | 5.42            | 31.75              | 57.20                | 68.20          | -11.03          | V    |
| 17355           | 44.53             | 36.88                 | 7.32            | 30.96              | 57.77                | 68.20          | -10.46          | V    |
| 23140           | 45.22             | 39.14                 | 8.85            | 35.25              | 57.96                | 68.20          | -10.27          | V    |
| 11570           | 48.57             | 34.21                 | 5.42            | 31.75              | 56.45                | 68.20          | -11.78          | H    |
| 17355           | 42.45             | 37.52                 | 7.32            | 30.96              | 56.33                | 68.20          | -11.90          | H    |
| 23140           | 43.22             | 39.88                 | 8.85            | 35.25              | 56.70                | 68.20          | -11.53          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570           | 33.11             | 35.26                 | 5.42            | 31.75              | 42.04                | 54.00          | -11.96          | V    |
| 17355           | 29.62             | 36.88                 | 7.32            | 30.96              | 42.86                | 54.00          | -11.14          | V    |
| 23140           | 28.75             | 39.14                 | 8.85            | 35.25              | 41.49                | 54.00          | -12.51          | V    |
| 11570           | 34.32             | 34.21                 | 5.42            | 31.75              | 42.20                | 54.00          | -11.80          | H    |
| 17355           | 29.57             | 37.52                 | 7.32            | 30.96              | 43.45                | 54.00          | -10.55          | H    |
| 23140           | 29.19             | 39.88                 | 8.85            | 35.25              | 42.67                | 54.00          | -11.33          | H    |



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|                 |                   |                       |                 |                    |                    |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Test Mode:5825  |                   |                       |                 |                    | Test channel: High |                |                 |      |
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650           | 48.44             | 35.26                 | 5.42            | 31.75              | 57.37              | 68.20          | -10.86          | V    |
| 17475           | 44.45             | 36.88                 | 7.32            | 30.96              | 57.69              | 68.20          | -10.54          | V    |
| 23300           | 45.73             | 39.14                 | 8.85            | 35.25              | 58.47              | 68.20          | -9.76           | V    |
| 11650           | 49.30             | 34.21                 | 5.42            | 31.75              | 57.18              | 68.20          | -11.05          | H    |
| 17475           | 44.71             | 37.52                 | 7.32            | 30.96              | 58.59              | 68.20          | -9.64           | H    |
| 23300           | 45.15             | 39.88                 | 8.85            | 35.25              | 58.63              | 68.20          | -9.60           | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650           | 34.52             | 35.26                 | 5.42            | 31.75              | 43.45              | 54.00          | -10.55          | V    |
| 17475           | 28.40             | 36.88                 | 7.32            | 30.96              | 41.64              | 54.00          | -12.36          | V    |
| 23300           | 30.20             | 39.14                 | 8.85            | 35.25              | 42.94              | 54.00          | -11.06          | V    |
| 11650           | 33.94             | 34.21                 | 5.42            | 31.75              | 41.82              | 54.00          | -12.18          | H    |
| 17475           | 28.53             | 37.52                 | 7.32            | 30.96              | 42.41              | 54.00          | -11.59          | H    |
| 23300           | 28.59             | 39.88                 | 8.85            | 35.25              | 42.07              | 54.00          | -11.93          | H    |



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| Test Mode: 5180 |                   |                       |                 |                    | Test channel: Lowest |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360           | 45.23             | 34.56                 | 5.36            | 31.25              | 53.90                | 68.20          | -14.30          | V    |
| 15540           | 43.29             | 36.22                 | 7.85            | 30.63              | 56.73                | 68.20          | -11.47          | V    |
| 20720           | 44.38             | 38.97                 | 8.56            | 34.95              | 56.96                | 68.20          | -11.24          | V    |
| 10360           | 48.95             | 33.57                 | 5.36            | 31.25              | 56.63                | 68.20          | -11.57          | H    |
| 15540           | 40.04             | 36.49                 | 7.85            | 30.63              | 53.75                | 68.20          | -14.45          | H    |
| 20720           | 41.84             | 39.92                 | 8.56            | 34.95              | 55.37                | 68.20          | -12.83          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360           | 32.29             | 34.56                 | 5.36            | 31.25              | 40.96                | 54.00          | -13.04          | V    |
| 15540           | 29.71             | 36.22                 | 7.85            | 30.63              | 43.15                | 54.00          | -10.85          | V    |
| 20720           | 28.04             | 38.97                 | 8.56            | 34.95              | 40.62                | 54.00          | -13.38          | V    |
| 10360           | 32.18             | 33.57                 | 5.36            | 31.25              | 39.86                | 54.00          | -14.14          | H    |
| 15540           | 27.21             | 36.49                 | 7.85            | 30.63              | 40.92                | 54.00          | -13.08          | H    |
| 20720           | 28.29             | 39.92                 | 8.56            | 34.95              | 41.82                | 54.00          | -12.18          | H    |



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| Test Mode:5200  |                   |                       |                 |                    | Test channel: Middle |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400           | 48.23             | 34.63                 | 5.36            | 31.25              | 56.97                | 68.20          | -11.23          | V    |
| 15600           | 44.26             | 36.42                 | 7.85            | 30.63              | 57.90                | 68.20          | -10.30          | V    |
| 20800           | 45.16             | 38.81                 | 8.56            | 34.95              | 57.58                | 68.20          | -10.62          | V    |
| 10400           | 48.08             | 33.93                 | 5.36            | 31.25              | 56.12                | 68.20          | -12.08          | H    |
| 15600           | 43.31             | 36.55                 | 7.85            | 30.63              | 57.08                | 68.20          | -11.12          | H    |
| 20800           | 43.86             | 39.94                 | 8.56            | 34.95              | 57.41                | 68.20          | -10.79          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400           | 32.37             | 34.63                 | 5.36            | 31.25              | 41.11                | 54.00          | -12.89          | V    |
| 15600           | 28.33             | 36.42                 | 7.85            | 30.63              | 41.97                | 54.00          | -12.03          | V    |
| 20800           | 29.07             | 38.81                 | 8.56            | 34.95              | 41.49                | 54.00          | -12.51          | V    |
| 10400           | 33.47             | 33.93                 | 5.36            | 31.25              | 41.51                | 54.00          | -12.49          | H    |
| 15600           | 28.64             | 36.55                 | 7.85            | 30.63              | 42.41                | 54.00          | -11.59          | H    |
| 20800           | 29.51             | 39.94                 | 8.56            | 34.95              | 43.06                | 54.00          | -10.94          | H    |





802.11n20

| Test Mode:5240  |                   |                       |                 |                    | Test channel: High |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480           | 45.36             | 34.68                 | 5.36            | 31.25              | 54.15              | 68.20          | -14.05          | V    |
| 17520           | 44.85             | 36.52                 | 7.85            | 30.63              | 58.59              | 68.20          | -9.61           | V    |
| 20960           | 43.06             | 38.77                 | 8.56            | 34.95              | 55.44              | 68.20          | -12.76          | V    |
| 10480           | 46.65             | 33.99                 | 5.36            | 31.25              | 54.75              | 68.20          | -13.45          | H    |
| 17520           | 45.87             | 36.84                 | 7.85            | 30.63              | 59.93              | 68.20          | -8.27           | H    |
| 20960           | 44.35             | 39.93                 | 8.56            | 34.95              | 57.89              | 68.20          | -10.31          | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480           | 31.71             | 34.68                 | 5.36            | 31.25              | 40.50              | 54.00          | -13.50          | V    |
| 17520           | 27.87             | 36.52                 | 7.85            | 30.63              | 41.61              | 54.00          | -12.39          | V    |
| 20960           | 28.55             | 38.77                 | 8.56            | 34.95              | 40.93              | 54.00          | -13.07          | V    |
| 10480           | 30.78             | 33.99                 | 5.36            | 31.25              | 38.88              | 54.00          | -15.12          | H    |
| 17520           | 27.55             | 36.84                 | 7.85            | 30.63              | 41.61              | 54.00          | -12.39          | H    |
| 20960           | 29.64             | 39.93                 | 8.56            | 34.95              | 43.18              | 54.00          | -10.82          | H    |



802.11n20

| Test Mode: 5745 |                   |                       |                 |                    | Test channel: Lowest |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490           | 49.61             | 35.26                 | 5.42            | 31.75              | 58.54                | 68.20          | -9.69           | V    |
| 17235           | 42.41             | 36.88                 | 7.32            | 30.96              | 55.65                | 68.20          | -12.58          | V    |
| 22980           | 43.03             | 39.14                 | 8.85            | 35.25              | 55.77                | 68.20          | -12.46          | V    |
| 11490           | 49.56             | 34.21                 | 5.42            | 31.75              | 57.44                | 68.20          | -10.79          | H    |
| 17235           | 44.02             | 37.52                 | 7.32            | 30.96              | 57.90                | 68.20          | -10.33          | H    |
| 22980           | 45.18             | 39.88                 | 8.85            | 35.25              | 58.66                | 68.20          | -9.57           | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490           | 33.62             | 35.26                 | 5.42            | 31.75              | 42.55                | 54.00          | -11.45          | V    |
| 17235           | 30.14             | 36.88                 | 7.32            | 30.96              | 43.38                | 54.00          | -10.62          | V    |
| 22980           | 29.65             | 39.14                 | 8.85            | 35.25              | 42.39                | 54.00          | -11.61          | V    |
| 11490           | 33.36             | 34.21                 | 5.42            | 31.75              | 41.24                | 54.00          | -12.76          | H    |
| 17235           | 28.43             | 37.52                 | 7.32            | 30.96              | 42.31                | 54.00          | -11.69          | H    |
| 22980           | 28.92             | 39.88                 | 8.85            | 35.25              | 42.40                | 54.00          | -11.60          | H    |



802.11n20

| Test Mode:5785  |                   |                       |                 |                    | Test channel: Middle |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570           | 45.78             | 35.26                 | 5.42            | 31.75              | 54.71                | 68.20          | -13.52          | V    |
| 17355           | 43.94             | 36.88                 | 7.32            | 30.96              | 57.18                | 68.20          | -11.05          | V    |
| 23140           | 45.18             | 39.14                 | 8.85            | 35.25              | 57.92                | 68.20          | -10.31          | V    |
| 11570           | 48.51             | 34.21                 | 5.42            | 31.75              | 56.39                | 68.20          | -11.84          | H    |
| 17355           | 42.91             | 37.52                 | 7.32            | 30.96              | 56.79                | 68.20          | -11.44          | H    |
| 23140           | 41.73             | 39.88                 | 8.85            | 35.25              | 55.21                | 68.20          | -13.02          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570           | 33.55             | 35.26                 | 5.42            | 31.75              | 42.48                | 54.00          | -11.52          | V    |
| 17355           | 30.45             | 36.88                 | 7.32            | 30.96              | 43.69                | 54.00          | -10.31          | V    |
| 23140           | 29.53             | 39.14                 | 8.85            | 35.25              | 42.27                | 54.00          | -11.73          | V    |
| 11570           | 33.78             | 34.21                 | 5.42            | 31.75              | 41.66                | 54.00          | -12.34          | H    |
| 17355           | 29.83             | 37.52                 | 7.32            | 30.96              | 43.71                | 54.00          | -10.29          | H    |
| 23140           | 29.65             | 39.88                 | 8.85            | 35.25              | 43.13                | 54.00          | -10.87          | H    |



802.11n20

| Test Mode:5825  |                   |                       |                 |                    | Test channel: High |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650           | 47.48             | 35.26                 | 5.42            | 31.75              | 56.41              | 68.20          | -11.82          | V    |
| 17475           | 44.24             | 36.88                 | 7.32            | 30.96              | 57.48              | 68.20          | -10.75          | V    |
| 23300           | 45.01             | 39.14                 | 8.85            | 35.25              | 57.75              | 68.20          | -10.48          | V    |
| 11650           | 49.28             | 34.21                 | 5.42            | 31.75              | 57.16              | 68.20          | -11.07          | H    |
| 17475           | 44.39             | 37.52                 | 7.32            | 30.96              | 58.27              | 68.20          | -9.96           | H    |
| 23300           | 45.46             | 39.88                 | 8.85            | 35.25              | 58.94              | 68.20          | -9.29           | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650           | 35.67             | 35.26                 | 5.42            | 31.75              | 44.60              | 54.00          | -9.40           | V    |
| 17475           | 28.76             | 36.88                 | 7.32            | 30.96              | 42.00              | 54.00          | -12.00          | V    |
| 23300           | 28.10             | 39.14                 | 8.85            | 35.25              | 40.84              | 54.00          | -13.16          | V    |
| 11650           | 33.18             | 34.21                 | 5.42            | 31.75              | 41.06              | 54.00          | -12.94          | H    |
| 17475           | 28.30             | 37.52                 | 7.32            | 30.96              | 42.18              | 54.00          | -11.82          | H    |
| 23300           | 29.21             | 39.88                 | 8.85            | 35.25              | 42.69              | 54.00          | -11.31          | H    |



802.11ac20

| Test Mode: 5180 |                   |                       |                 |                    | Test channel: Lowest |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360           | 45.53             | 34.56                 | 5.36            | 31.25              | 54.20                | 68.20          | -14.00          | V    |
| 15540           | 43.08             | 36.22                 | 7.85            | 30.63              | 56.52                | 68.20          | -11.68          | V    |
| 20720           | 44.25             | 38.97                 | 8.56            | 34.95              | 56.83                | 68.20          | -11.37          | V    |
| 10360           | 49.12             | 33.57                 | 5.36            | 31.25              | 56.80                | 68.20          | -11.40          | H    |
| 15540           | 40.35             | 36.49                 | 7.85            | 30.63              | 54.06                | 68.20          | -14.14          | H    |
| 20720           | 41.96             | 39.92                 | 8.56            | 34.95              | 55.49                | 68.20          | -12.71          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360           | 32.31             | 34.56                 | 5.36            | 31.25              | 40.98                | 54.00          | -13.02          | V    |
| 15540           | 29.76             | 36.22                 | 7.85            | 30.63              | 43.20                | 54.00          | -10.80          | V    |
| 20720           | 28.24             | 38.97                 | 8.56            | 34.95              | 40.82                | 54.00          | -13.18          | V    |
| 10360           | 31.80             | 33.57                 | 5.36            | 31.25              | 39.48                | 54.00          | -14.52          | H    |
| 15540           | 27.14             | 36.49                 | 7.85            | 30.63              | 40.85                | 54.00          | -13.15          | H    |
| 20720           | 28.10             | 39.92                 | 8.56            | 34.95              | 41.63                | 54.00          | -12.37          | H    |



802.11ac20

| Test Mode:5200  |                   |                       |                 |                    | Test channel: Middle |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400           | 48.74             | 34.63                 | 5.36            | 31.25              | 57.48                | 68.20          | -10.72          | V    |
| 15600           | 44.33             | 36.42                 | 7.85            | 30.63              | 57.97                | 68.20          | -10.23          | V    |
| 20800           | 45.34             | 38.81                 | 8.56            | 34.95              | 57.76                | 68.20          | -10.44          | V    |
| 10400           | 47.88             | 33.93                 | 5.36            | 31.25              | 55.92                | 68.20          | -12.28          | H    |
| 15600           | 43.51             | 36.55                 | 7.85            | 30.63              | 57.28                | 68.20          | -10.92          | H    |
| 20800           | 44.08             | 39.94                 | 8.56            | 34.95              | 57.63                | 68.20          | -10.57          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400           | 32.85             | 34.63                 | 5.36            | 31.25              | 41.59                | 54.00          | -12.41          | V    |
| 15600           | 28.69             | 36.42                 | 7.85            | 30.63              | 42.33                | 54.00          | -11.67          | V    |
| 20800           | 29.26             | 38.81                 | 8.56            | 34.95              | 41.68                | 54.00          | -12.32          | V    |
| 10400           | 33.40             | 33.93                 | 5.36            | 31.25              | 41.44                | 54.00          | -12.56          | H    |
| 15600           | 28.64             | 36.55                 | 7.85            | 30.63              | 42.41                | 54.00          | -11.59          | H    |
| 20800           | 29.51             | 39.94                 | 8.56            | 34.95              | 43.06                | 54.00          | -10.94          | H    |



802.11ac20

| Test Mode:5240  |                   |                       |                 |                    | Test channel: High |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480           | 45.59             | 34.68                 | 5.36            | 31.25              | 54.38              | 68.20          | -13.82          | V    |
| 17520           | 44.41             | 36.52                 | 7.85            | 30.63              | 58.15              | 68.20          | -10.05          | V    |
| 20960           | 42.78             | 38.77                 | 8.56            | 34.95              | 55.16              | 68.20          | -13.04          | V    |
| 10480           | 46.34             | 33.99                 | 5.36            | 31.25              | 54.44              | 68.20          | -13.76          | H    |
| 17520           | 45.69             | 36.84                 | 7.85            | 30.63              | 59.75              | 68.20          | -8.45           | H    |
| 20960           | 43.87             | 39.93                 | 8.56            | 34.95              | 57.41              | 68.20          | -10.79          | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480           | 31.37             | 34.68                 | 5.36            | 31.25              | 40.16              | 54.00          | -13.84          | V    |
| 17520           | 28.07             | 36.52                 | 7.85            | 30.63              | 41.81              | 54.00          | -12.19          | V    |
| 20960           | 28.63             | 38.77                 | 8.56            | 34.95              | 41.01              | 54.00          | -12.99          | V    |
| 10480           | 30.65             | 33.99                 | 5.36            | 31.25              | 38.75              | 54.00          | -15.25          | H    |
| 17520           | 27.40             | 36.84                 | 7.85            | 30.63              | 41.46              | 54.00          | -12.54          | H    |
| 20960           | 29.81             | 39.93                 | 8.56            | 34.95              | 43.35              | 54.00          | -10.65          | H    |



802.11ac20

| Test Mode: 5745 |                   |                       |                 |                    | Test channel: Lowest |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490           | 49.33             | 35.26                 | 5.42            | 31.75              | 58.26                | 68.20          | -9.97           | V    |
| 17235           | 42.33             | 36.88                 | 7.32            | 30.96              | 55.57                | 68.20          | -12.66          | V    |
| 22980           | 43.22             | 39.14                 | 8.85            | 35.25              | 55.96                | 68.20          | -12.27          | V    |
| 11490           | 49.24             | 34.21                 | 5.42            | 31.75              | 57.12                | 68.20          | -11.11          | H    |
| 17235           | 43.82             | 37.52                 | 7.32            | 30.96              | 57.70                | 68.20          | -10.53          | H    |
| 22980           | 45.04             | 39.88                 | 8.85            | 35.25              | 58.52                | 68.20          | -9.71           | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490           | 33.83             | 35.26                 | 5.42            | 31.75              | 42.76                | 54.00          | -11.24          | V    |
| 17235           | 29.96             | 36.88                 | 7.32            | 30.96              | 43.20                | 54.00          | -10.80          | V    |
| 22980           | 29.77             | 39.14                 | 8.85            | 35.25              | 42.51                | 54.00          | -11.49          | V    |
| 11490           | 33.08             | 34.21                 | 5.42            | 31.75              | 40.96                | 54.00          | -13.04          | H    |
| 17235           | 28.34             | 37.52                 | 7.32            | 30.96              | 42.22                | 54.00          | -11.78          | H    |
| 22980           | 29.37             | 39.88                 | 8.85            | 35.25              | 42.85                | 54.00          | -11.15          | H    |





802.11ac20

|                 |                   |                       |                 |                    |                      |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Test Mode:5785  |                   |                       |                 |                    | Test channel: Middle |                |                 |      |
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570           | 46.04             | 35.26                 | 5.42            | 31.75              | 54.97                | 68.20          | -13.26          | V    |
| 17355           | 43.85             | 36.88                 | 7.32            | 30.96              | 57.09                | 68.20          | -11.14          | V    |
| 23140           | 44.83             | 39.14                 | 8.85            | 35.25              | 57.57                | 68.20          | -10.66          | V    |
| 11570           | 48.23             | 34.21                 | 5.42            | 31.75              | 56.11                | 68.20          | -12.12          | H    |
| 17355           | 42.76             | 37.52                 | 7.32            | 30.96              | 56.64                | 68.20          | -11.59          | H    |
| 23140           | 41.87             | 39.88                 | 8.85            | 35.25              | 55.35                | 68.20          | -12.88          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570           | 33.68             | 35.26                 | 5.42            | 31.75              | 42.61                | 54.00          | -11.39          | V    |
| 17355           | 30.42             | 36.88                 | 7.32            | 30.96              | 43.66                | 54.00          | -10.34          | V    |
| 23140           | 29.55             | 39.14                 | 8.85            | 35.25              | 42.29                | 54.00          | -11.71          | V    |
| 11570           | 33.88             | 34.21                 | 5.42            | 31.75              | 41.76                | 54.00          | -12.24          | H    |
| 17355           | 29.83             | 37.52                 | 7.32            | 30.96              | 43.71                | 54.00          | -10.29          | H    |
| 23140           | 29.26             | 39.88                 | 8.85            | 35.25              | 42.74                | 54.00          | -11.26          | H    |



802.11ac20

| Test Mode:5825  |                   |                       |                 |                    | Test channel: High |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650           | 47.88             | 35.26                 | 5.42            | 31.75              | 56.81              | 68.20          | -11.42          | V    |
| 17475           | 44.55             | 36.88                 | 7.32            | 30.96              | 57.79              | 68.20          | -10.44          | V    |
| 23300           | 44.84             | 39.14                 | 8.85            | 35.25              | 57.58              | 68.20          | -10.65          | V    |
| 11650           | 48.93             | 34.21                 | 5.42            | 31.75              | 56.81              | 68.20          | -11.42          | H    |
| 17475           | 44.58             | 37.52                 | 7.32            | 30.96              | 58.46              | 68.20          | -9.77           | H    |
| 23300           | 45.45             | 39.88                 | 8.85            | 35.25              | 58.93              | 68.20          | -9.30           | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650           | 35.44             | 35.26                 | 5.42            | 31.75              | 44.37              | 54.00          | -9.63           | V    |
| 17475           | 28.75             | 36.88                 | 7.32            | 30.96              | 41.99              | 54.00          | -12.01          | V    |
| 23300           | 27.74             | 39.14                 | 8.85            | 35.25              | 40.48              | 54.00          | -13.52          | V    |
| 11650           | 32.87             | 34.21                 | 5.42            | 31.75              | 40.75              | 54.00          | -13.25          | H    |
| 17475           | 28.35             | 37.52                 | 7.32            | 30.96              | 42.23              | 54.00          | -11.77          | H    |
| 23300           | 29.02             | 39.88                 | 8.85            | 35.25              | 42.50              | 54.00          | -11.50          | H    |



802.11n40

| Test Mode:5190  |                   |                       |                 |                    | Test channel: High |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10380           | 47.82             | 35.26                 | 5.42            | 31.75              | 56.75              | 68.20          | -11.45          | V    |
| 15570           | 44.60             | 36.88                 | 7.32            | 30.96              | 57.84              | 68.20          | -10.36          | V    |
| 20760           | 45.30             | 39.14                 | 8.85            | 35.25              | 58.04              | 68.20          | -10.16          | V    |
| 10380           | 49.05             | 34.21                 | 5.42            | 31.75              | 56.93              | 68.20          | -11.27          | H    |
| 15570           | 44.91             | 37.52                 | 7.32            | 30.96              | 58.79              | 68.20          | -9.41           | H    |
| 20760           | 45.52             | 39.88                 | 8.85            | 35.25              | 59.00              | 68.20          | -9.20           | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10380           | 35.37             | 35.26                 | 5.42            | 31.75              | 44.30              | 54.00          | -9.70           | V    |
| 15570           | 28.99             | 36.88                 | 7.32            | 30.96              | 42.23              | 54.00          | -11.77          | V    |
| 20760           | 27.62             | 39.14                 | 8.85            | 35.25              | 40.36              | 54.00          | -13.64          | V    |
| 10380           | 33.38             | 34.21                 | 5.42            | 31.75              | 41.26              | 54.00          | -12.74          | H    |
| 15570           | 28.28             | 37.52                 | 7.32            | 30.96              | 42.16              | 54.00          | -11.84          | H    |
| 20760           | 28.84             | 39.88                 | 8.85            | 35.25              | 42.32              | 54.00          | -11.68          | H    |



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| Test Mode:5230  |                   |                       |                 |                    | Test channel: High |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10460           | 47.55             | 35.26                 | 5.42            | 31.75              | 56.48              | 68.20          | -11.72          | V    |
| 15690           | 44.77             | 36.88                 | 7.32            | 30.96              | 58.01              | 68.20          | -10.19          | V    |
| 20920           | 44.98             | 39.14                 | 8.85            | 35.25              | 57.72              | 68.20          | -10.48          | V    |
| 10460           | 49.44             | 34.21                 | 5.42            | 31.75              | 57.32              | 68.20          | -10.88          | H    |
| 15690           | 44.70             | 37.52                 | 7.32            | 30.96              | 58.58              | 68.20          | -9.62           | H    |
| 20920           | 45.56             | 39.88                 | 8.85            | 35.25              | 59.04              | 68.20          | -9.16           | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10460           | 35.62             | 35.26                 | 5.42            | 31.75              | 44.55              | 54.00          | -9.45           | V    |
| 15690           | 29.02             | 36.88                 | 7.32            | 30.96              | 42.26              | 54.00          | -11.74          | V    |
| 20920           | 27.84             | 39.14                 | 8.85            | 35.25              | 40.58              | 54.00          | -13.42          | V    |
| 10460           | 33.38             | 34.21                 | 5.42            | 31.75              | 41.26              | 54.00          | -12.74          | H    |
| 15690           | 28.50             | 37.52                 | 7.32            | 30.96              | 42.38              | 54.00          | -11.62          | H    |
| 20920           | 29.22             | 39.88                 | 8.85            | 35.25              | 42.70              | 54.00          | -11.30          | H    |



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| Test Mode:5190  |                   |                       |                 |                    | Test channel:LOW |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                  |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)   | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10380           | 47.85             | 35.26                 | 5.42            | 31.75              | 56.78            | 68.20          | -11.42          | V    |
| 15570           | 44.32             | 36.88                 | 7.32            | 30.96              | 57.56            | 68.20          | -10.64          | V    |
| 20760           | 44.85             | 39.14                 | 8.85            | 35.25              | 57.59            | 68.20          | -10.61          | V    |
| 10380           | 49.05             | 34.21                 | 5.42            | 31.75              | 56.93            | 68.20          | -11.27          | H    |
| 15570           | 44.53             | 37.52                 | 7.32            | 30.96              | 58.41            | 68.20          | -9.79           | H    |
| 20760           | 45.11             | 39.88                 | 8.85            | 35.25              | 58.59            | 68.20          | -9.61           | H    |
| Average Value   |                   |                       |                 |                    |                  |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)   | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10380           | 35.66             | 35.26                 | 5.42            | 31.75              | 44.59            | 54.00          | -9.41           | V    |
| 15570           | 28.99             | 36.88                 | 7.32            | 30.96              | 42.23            | 54.00          | -11.77          | V    |
| 20760           | 28.10             | 39.14                 | 8.85            | 35.25              | 40.84            | 54.00          | -13.16          | V    |
| 10380           | 33.10             | 34.21                 | 5.42            | 31.75              | 40.98            | 54.00          | -13.02          | H    |
| 15570           | 28.71             | 37.52                 | 7.32            | 30.96              | 42.59            | 54.00          | -11.41          | H    |
| 20760           | 28.77             | 39.88                 | 8.85            | 35.25              | 42.25            | 54.00          | -11.75          | H    |



802.11ac40

| Test Mode:5230  |                   |                       |                 |                    | Test channel: High |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10460           | 47.93             | 35.26                 | 5.42            | 31.75              | 56.86              | 68.20          | -11.34          | V    |
| 15690           | 44.41             | 36.88                 | 7.32            | 30.96              | 57.65              | 68.20          | -10.55          | V    |
| 20920           | 44.96             | 39.14                 | 8.85            | 35.25              | 57.70              | 68.20          | -10.50          | V    |
| 10460           | 49.02             | 34.21                 | 5.42            | 31.75              | 56.90              | 68.20          | -11.30          | H    |
| 15690           | 44.70             | 37.52                 | 7.32            | 30.96              | 58.58              | 68.20          | -9.62           | H    |
| 20920           | 45.28             | 39.88                 | 8.85            | 35.25              | 58.76              | 68.20          | -9.44           | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10460           | 35.36             | 35.26                 | 5.42            | 31.75              | 44.29              | 54.00          | -9.71           | V    |
| 15690           | 29.22             | 36.88                 | 7.32            | 30.96              | 42.46              | 54.00          | -11.54          | V    |
| 20920           | 27.74             | 39.14                 | 8.85            | 35.25              | 40.48              | 54.00          | -13.52          | V    |
| 10460           | 33.24             | 34.21                 | 5.42            | 31.75              | 41.12              | 54.00          | -12.88          | H    |
| 15690           | 28.73             | 37.52                 | 7.32            | 30.96              | 42.61              | 54.00          | -11.39          | H    |
| 20920           | 29.09             | 39.88                 | 8.85            | 35.25              | 42.57              | 54.00          | -11.43          | H    |

Note:

1. The testing has been conformed to  $10 \times 5825 \text{ MHz} = 58250 \text{ MHz}$ .
2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.  
Emission Level = Reading + Factor  
Margin=Emission Level-Limit
4. X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.
5.  $E[\text{dB } \mu \text{ V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 68.2 \text{ dBuV/m}$ , for  $\text{EIPR}[\text{dBm}] = -27 \text{ dBm}$ .



## 6.6 Band edge measurements

### Test Result:

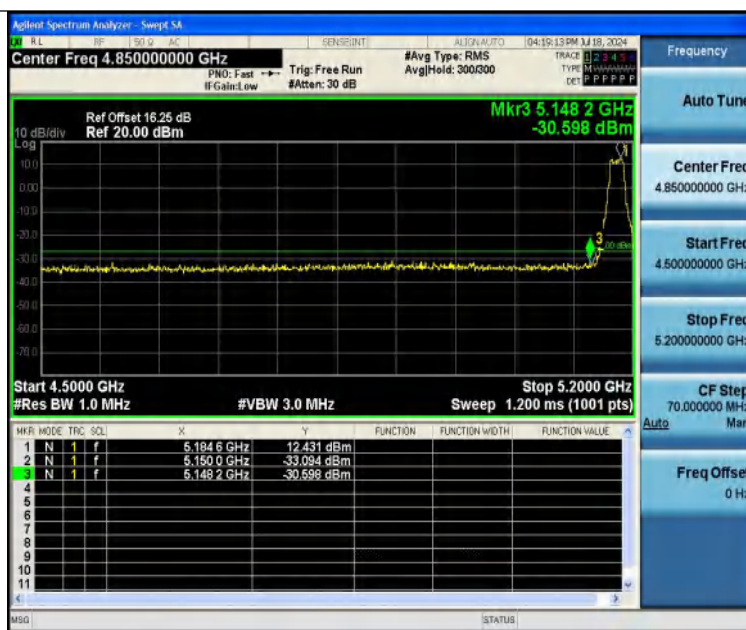
| TestMode   | Antenna | ChName | Frequency[MHz] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|----------------|-------------|------------|---------|
| 11A        | Ant1    | Low    | 5180           | -30.6       | ≤-27       | PASS    |
| 11A        | Ant1    | High   | 5240           | -30.09      | ≤-27       | PASS    |
| 11N20SISO  | Ant1    | Low    | 5180           | -30.57      | ≤-27       | PASS    |
| 11N20SISO  | Ant1    | High   | 5240           | -29.98      | ≤-27       | PASS    |
| 11N40SISO  | Ant1    | Low    | 5190           | -30.93      | ≤-27       | PASS    |
| 11N40SISO  | Ant1    | High   | 5230           | -30.49      | ≤-27       | PASS    |
| 11AC20SISO | Ant1    | Low    | 5180           | -31.13      | ≤-27       | PASS    |
| 11AC20SISO | Ant1    | High   | 5240           | -30.62      | ≤-27       | PASS    |
| 11AC40SISO | Ant1    | Low    | 5190           | -30.64      | ≤-27       | PASS    |
| 11AC40SISO | Ant1    | High   | 5230           | -30.39      | ≤-27       | PASS    |

| TestMode   | Antenna | ChName | Frequency[MHz] | FreqRange [MHz] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|--------|----------------|-----------------|--------------|-------------|---------|
| 11A        | Ant1    | Low    | 5745           | 5720~5725       | -28.35       | ≤24.47      | PASS    |
| 11A        | Ant1    | Low    | 5745           | 5700~5720       | -31.74       | ≤14.66      | PASS    |
| 11A        | Ant1    | Low    | 5745           | 5650~5700       | -32.57       | ≤2.91       | PASS    |
| 11A        | Ant1    | Low    | 5745           | 5760~5650       | -34.41       | ≤-27        | PASS    |
| 11A        | Ant1    | High   | 5825           | 5850~5855       | -31.79       | ≤26.87      | PASS    |
| 11A        | Ant1    | High   | 5825           | 5855~5875       | -30          | ≤15.54      | PASS    |
| 11A        | Ant1    | High   | 5825           | 5875~5925       | -30.67       | ≤4.31       | PASS    |
| 11A        | Ant1    | High   | 5825           | 5925~5935       | -30.36       | ≤-27        | PASS    |
| 11N20SISO  | Ant1    | Low    | 5745           | 5720~5725       | -25.4        | ≤22.37      | PASS    |
| 11N20SISO  | Ant1    | Low    | 5745           | 5700~5720       | -32.04       | ≤15.34      | PASS    |
| 11N20SISO  | Ant1    | Low    | 5745           | 5650~5700       | -33.15       | ≤-3.04      | PASS    |
| 11N20SISO  | Ant1    | Low    | 5745           | 5760~5650       | -34.12       | ≤-27        | PASS    |
| 11N20SISO  | Ant1    | High   | 5825           | 5850~5855       | -32.06       | ≤21.33      | PASS    |
| 11N20SISO  | Ant1    | High   | 5825           | 5855~5875       | -31.97       | ≤15.54      | PASS    |
| 11N20SISO  | Ant1    | High   | 5825           | 5875~5925       | -31.73       | ≤-24.86     | PASS    |
| 11N20SISO  | Ant1    | High   | 5825           | 5925~5935       | -31.59       | ≤-27        | PASS    |
| 11N40SISO  | Ant1    | Low    | 5755           | 5720~5725       | -25.4        | ≤26.51      | PASS    |
| 11N40SISO  | Ant1    | Low    | 5755           | 5700~5720       | -28.96       | ≤14.94      | PASS    |
| 11N40SISO  | Ant1    | Low    | 5755           | 5650~5700       | -32.68       | ≤-9.52      | PASS    |
| 11N40SISO  | Ant1    | Low    | 5755           | 5780~5650       | -34.17       | ≤-27        | PASS    |
| 11N40SISO  | Ant1    | High   | 5795           | 5850~5855       | -31.81       | ≤20.17      | PASS    |
| 11N40SISO  | Ant1    | High   | 5795           | 5855~5875       | -31.94       | ≤12.49      | PASS    |
| 11N40SISO  | Ant1    | High   | 5795           | 5875~5925       | -30.88       | ≤-18.50     | PASS    |
| 11N40SISO  | Ant1    | High   | 5795           | 5925~5935       | -31.47       | ≤-27        | PASS    |
| 11AC20SISO | Ant1    | Low    | 5745           | 5720~5725       | -30.2        | ≤26.30      | PASS    |
| 11AC20SISO | Ant1    | Low    | 5745           | 5700~5720       | -33.06       | ≤15.37      | PASS    |
| 11AC20SISO | Ant1    | Low    | 5745           | 5650~5700       | -32.1        | ≤9.21       | PASS    |
| 11AC20SISO | Ant1    | Low    | 5745           | 5760~5650       | -33.26       | ≤-27        | PASS    |
| 11AC20SISO | Ant1    | High   | 5825           | 5850~5855       | -31.48       | ≤17.95      | PASS    |
| 11AC20SISO | Ant1    | High   | 5825           | 5855~5875       | -31.62       | ≤10.82      | PASS    |



|                |      |      |      |           |        |               |      |
|----------------|------|------|------|-----------|--------|---------------|------|
| 11AC20SIS<br>O | Ant1 | High | 5825 | 5875~5925 | -30.71 | $\leq -3.38$  | PASS |
| 11AC20SIS<br>O | Ant1 | High | 5825 | 5925~5935 | -31.91 | $\leq -27$    | PASS |
| 11AC40SIS<br>O | Ant1 | Low  | 5755 | 5720~5725 | -26.32 | $\leq 23.74$  | PASS |
| 11AC40SIS<br>O | Ant1 | Low  | 5755 | 5700~5720 | -27.81 | $\leq 15.54$  | PASS |
| 11AC40SIS<br>O | Ant1 | Low  | 5755 | 5650~5700 | -32.72 | $\leq -10.42$ | PASS |
| 11AC40SIS<br>O | Ant1 | Low  | 5755 | 5780~5650 | -34.3  | $\leq -27$    | PASS |
| 11AC40SIS<br>O | Ant1 | High | 5795 | 5850~5855 | -32.51 | $\leq 19.42$  | PASS |
| 11AC40SIS<br>O | Ant1 | High | 5795 | 5855~5875 | -31.89 | $\leq 15.26$  | PASS |
| 11AC40SIS<br>O | Ant1 | High | 5795 | 5875~5925 | -30.79 | $\leq 9.46$   | PASS |
| 11AC40SIS<br>O | Ant1 | High | 5795 | 5925~5935 | -32.85 | $\leq -27$    | PASS |

### Test Graphs:



11A-Ant1-5180-PASS





11A-Ant1-5240-PASS



11N20SISO-Ant1-5180-PASS



11N20SISO-Ant1-5240-PASS



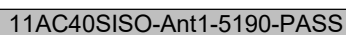
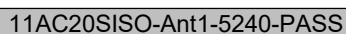
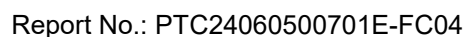
11N40SISO-Ant1-5190-PASS



11N40SISO-Ant1-5230-PASS



11AC20SISO-Ant1-5180-PASS





11AC40SISO-Ant1-5230-PASS





## Test plots B4:



11A-Ant1-5745-PASS



11A-Ant1-5825-PASS



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS





11AC20SISO-Ant1-5745-PASS



11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS

Note: The limits are based on EIRP, and the antenna gain and line loss are compensated to the instrument by the test system.



## 6.7 Restricted Band

Test Requirement : FCC Part15 E Section 15.407(b)

Test site : Measurement Distance: 3m

Test Limit :

| Frequency  | Limit (dBuV/m @3m) | Remark        |
|------------|--------------------|---------------|
| Above 1GHz | 74                 | Peak Value    |
|            | 54                 | Average Value |

### Test Procedure:

1. The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
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 tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room

### Test Result:

| Worst case mode: |             | 802.11a(6Mbps) |             | Test channel:           |                | 36        |          |               |
|------------------|-------------|----------------|-------------|-------------------------|----------------|-----------|----------|---------------|
| NO.              | Freq. [MHz] | level [dBμV/m] | Factor [dB] | Emission level [dBμV/m] | Limit [dBμV/m] | Over [dB] | Polarity | Detector Type |
| 1                | 5150        | 50.8           | 6.53        | 57.33                   | 74             | 16.67     | H        | Peak          |
| 2                | 5150        | 39.96          | 6.53        | 46.49                   | 54             | 7.51      | H        | Average       |
| 3                | 5150        | 49.47          | 6.53        | 56                      | 74             | 18        | V        | Peak          |
| 4                | 5150        | 38.5           | 6.53        | 45.03                   | 54             | 8.97      | V        | Average       |



| Worst case mode: |             | 802.11a(6Mbps) |             | Test channel:           |                | 48        |          |               |
|------------------|-------------|----------------|-------------|-------------------------|----------------|-----------|----------|---------------|
| NO.              | Freq. [MHz] | level [dBμV/m] | Factor [dB] | Emission level [dBμV/m] | Limit [dBμV/m] | Over [dB] | Polarity | Detector Type |
| 1                | 5350        | 50.02          | 6.56        | 56.58                   | 74             | 17.42     | H        | Peak          |
| 2                | 5350        | 39.88          | 6.56        | 46.44                   | 54             | 7.56      | H        | Average       |
| 3                | 5350        | 49.58          | 6.56        | 56.14                   | 74             | 17.86     | V        | Peak          |
| 4                | 5350        | 38.41          | 6.56        | 44.97                   | 54             | 9.03      | V        | Average       |

| Worst case mode: |             | 802.11a(6Mbps) |             | Test channel:           |                | 165       |          |               |
|------------------|-------------|----------------|-------------|-------------------------|----------------|-----------|----------|---------------|
| NO.              | Freq. [MHz] | level [dBμV/m] | Factor [dB] | Emission level [dBμV/m] | Limit [dBμV/m] | Over [dB] | Polarity | Detector Type |
| 1                | 5850        | 50.33          | 6.64        | 56.97                   | 74             | 17.03     | H        | Peak          |
| 2                | 5850        | 39.65          | 6.64        | 46.29                   | 54             | 7.71      | H        | Average       |
| 3                | 5850        | 49.34          | 6.64        | 55.98                   | 74             | 18.02     | V        | Peak          |
| 4                | 5850        | 38.4           | 6.64        | 45.04                   | 54             | 8.96      | V        | Average       |

**Note:** Only recorded the worst case in the report.



## 7 Emission Bandwidth and Occupied Bandwidth

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | : FCC CFR47 Part 15 Section 15.407(a)(e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Method      | : ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Limit       | <p>According to FCC §15.407(a),<br/>The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less.</p> <p>Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.</p> <p>As per FCC §15.407(e): for equipment operating in the band 5725 – 5850 MHz, the minimum 6 dB bandwidth of U-NII devices shall be 500 kHz.</p> |

### 7.1 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Emission Bandwidth (EBW)

a) Set RBW = approximately 1% of the emission bandwidth; b) Set the VBW > RBW; c) Detector = Peak; d) Trace mode = max hold; e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%; 99% Occupied Bandwidth

The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99% occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in II.G.3.d). Measurements of 99% occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

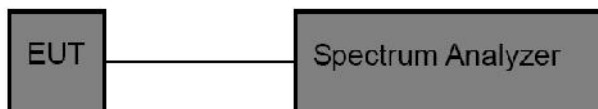
The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set  $VBW \geq 3 \cdot RBW$
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency.



The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

## 7.2 Test Setup



## 7.3 Test Result

PASS

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations / data rates and antenna ports.

Following channel was selected for the final test as listed below.

### 26 dB emission bandwidth:

| TestMode   | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180           | 25.560         | 5167.080 | 5192.640 | ---        | ---     |
| 11A        | Ant1    | 5200           | 24.400         | 5187.560 | 5211.960 | ---        | ---     |
| 11A        | Ant1    | 5240           | 23.960         | 5228.200 | 5252.160 | ---        | ---     |
| 11A        | Ant1    | 5745           | 24.360         | 5732.720 | 5757.080 | ---        | ---     |
| 11A        | Ant1    | 5785           | 24.240         | 5772.440 | 5796.680 | ---        | ---     |
| 11A        | Ant1    | 5825           | 24.000         | 5812.600 | 5836.600 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 25.080         | 5167.400 | 5192.480 | ---        | ---     |
| 11N20SISO  | Ant1    | 5200           | 25.280         | 5187.120 | 5212.400 | ---        | ---     |
| 11N20SISO  | Ant1    | 5240           | 25.680         | 5227.280 | 5252.960 | ---        | ---     |
| 11N20SISO  | Ant1    | 5745           | 25.280         | 5732.320 | 5757.600 | ---        | ---     |
| 11N20SISO  | Ant1    | 5785           | 24.680         | 5772.520 | 5797.200 | ---        | ---     |
| 11N20SISO  | Ant1    | 5825           | 25.160         | 5812.200 | 5837.360 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 47.360         | 5166.480 | 5213.840 | ---        | ---     |
| 11N40SISO  | Ant1    | 5230           | 46.480         | 5206.800 | 5253.280 | ---        | ---     |
| 11N40SISO  | Ant1    | 5755           | 46.320         | 5731.640 | 5777.960 | ---        | ---     |
| 11N40SISO  | Ant1    | 5795           | 46.640         | 5771.320 | 5817.960 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 25.200         | 5167.640 | 5192.840 | ---        | ---     |
| 11AC20SISO | Ant1    | 5200           | 25.040         | 5187.320 | 5212.360 | ---        | ---     |
| 11AC20SISO | Ant1    | 5240           | 24.280         | 5227.800 | 5252.080 | ---        | ---     |
| 11AC20SISO | Ant1    | 5745           | 25.480         | 5731.960 | 5757.440 | ---        | ---     |
| 11AC20SISO | Ant1    | 5785           | 24.480         | 5772.520 | 5797.000 | ---        | ---     |
| 11AC20SISO | Ant1    | 5825           | 25.480         | 5812.000 | 5837.480 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 46.400         | 5167.840 | 5214.240 | ---        | ---     |
| 11AC40SISO | Ant1    | 5230           | 46.080         | 5207.440 | 5253.520 | ---        | ---     |
| 11AC40SISO | Ant1    | 5755           | 47.200         | 5731.480 | 5778.680 | ---        | ---     |
| 11AC40SISO | Ant1    | 5795           | 46.320         | 5771.400 | 5817.720 | ---        | ---     |





minimum 6 dB bandwidth:

| TestMode   | Antenna | Frequency[MHz] | 6db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|---------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5745           | 16.320        | 5736.800 | 5753.120 | 0.5        | PASS    |
| 11A        | Ant1    | 5785           | 16.320        | 5776.800 | 5793.120 | 0.5        | PASS    |
| 11A        | Ant1    | 5825           | 16.320        | 5816.800 | 5833.120 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5745           | 17.640        | 5736.120 | 5753.760 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5785           | 17.560        | 5776.160 | 5793.720 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5825           | 17.560        | 5816.160 | 5833.720 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5755           | 36.320        | 5736.760 | 5773.080 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5795           | 36.000        | 5776.840 | 5812.840 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5745           | 17.600        | 5736.160 | 5753.760 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5785           | 17.560        | 5776.160 | 5793.720 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5825           | 17.520        | 5816.200 | 5833.720 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5755           | 36.320        | 5736.760 | 5773.080 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5795           | 35.760        | 5776.840 | 5812.600 | 0.5        | PASS    |

### Test Graphs:



11A-Ant1-5180



11A-Ant1-5200



11A-Ant1-5240





11A-Ant1-5745



11A-Ant1-5785



11A-Ant1-5825



11N20SISO-Ant1-5180



11N20SISO-Ant1-5200



11N20SISO-Ant1-5240



11N20SISO-Ant1-5745



11N20SISO-Ant1-5785





11N20SISO-Ant1-5825



11N40SISO-Ant1-5190



11N40SISO-Ant1-5230



11N40SISO-Ant1-5755



11N40SISO-Ant1-5795



11AC20SISO-Ant1-5180



11AC20SISO-Ant1-5200



11AC20SISO-Ant1-5240





11AC20SISO-Ant1-5745



11AC20SISO-Ant1-5785



11AC20SISO-Ant1-5825



11AC40SISO-Ant1-5190



11AC40SISO-Ant1-5230



11AC40SISO-Ant1-5755



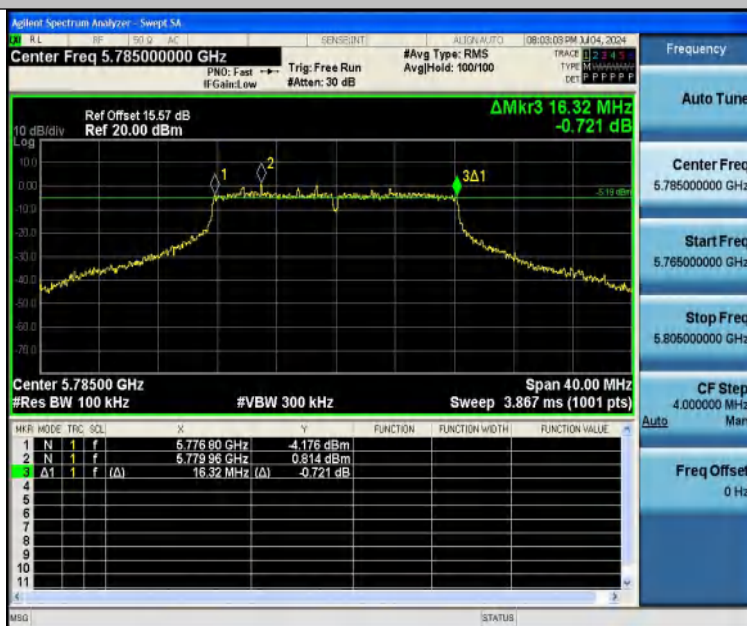
11AC40SISO-Ant1-5795



## Min emission bandwidth Test Graphs:



11A-Ant1-5745-PASS



11A-Ant1-5785-PASS





11A-Ant1-5825-PASS



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS





11AC20SISO-Ant1-5745-PASS



11AC20SISO-Ant1-5785-PASS



11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS

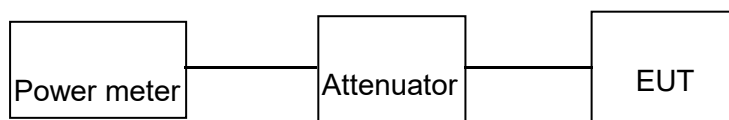


## 8 Maximum Conducted Output Power

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | : FCC CFR47 Part 15 Section 15.247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Method      | : ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Limit       | : For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. |

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

### 8.1 Test Setup



### 8.2 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, The use Power Meter 1. Place the EUT on a bench and set it in transmitting mode. 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to a Power meter.



### 8.3 Test Result

| Test Mode  | Antenna | Frequency[MHz] | Conducted Power [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-----------------------|-------------|---------|
| 11A        | Ant1    | 5180           | 11.15                 | ≤23.98      | PASS    |
| 11A        | Ant1    | 5200           | 11.85                 | ≤23.98      | PASS    |
| 11A        | Ant1    | 5240           | 13.09                 | ≤23.98      | PASS    |
| 11A        | Ant1    | 5745           | 11.41                 | ≤30.00      | PASS    |
| 11A        | Ant1    | 5785           | 11.53                 | ≤30.00      | PASS    |
| 11A        | Ant1    | 5825           | 10.31                 | ≤30.00      | PASS    |
| 11N20SISO  | Ant1    | 5180           | 11.15                 | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5200           | 11.65                 | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5240           | 12.94                 | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5745           | 11.42                 | ≤30.00      | PASS    |
| 11N20SISO  | Ant1    | 5785           | 11.44                 | ≤30.00      | PASS    |
| 11N20SISO  | Ant1    | 5825           | 10.34                 | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5180           | 10.53                 | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5200           | 12.56                 | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5240           | 11.01                 | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5190           | 10.90                 | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5230           | 11.12                 | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5755           | 11.70                 | ≤30.00      | PASS    |
| 11N40SISO  | Ant1    | 5795           | 13.00                 | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5745           | 11.41                 | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5785           | 11.41                 | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5825           | 10.27                 | ≤30.00      | PASS    |
| 11AC40SISO | Ant1    | 5190           | 10.49                 | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5230           | 12.44                 | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5755           | 10.93                 | ≤30.00      | PASS    |
| 11AC40SISO | Ant1    | 5795           | 10.85                 | ≤30.00      | PASS    |



## 9 Power Spectral density

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | : FCC CFR47 Part 15 Section 15.2407(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Method      | : ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Limit       | <p>: For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi..</p> <p>For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHzband. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations</p> |

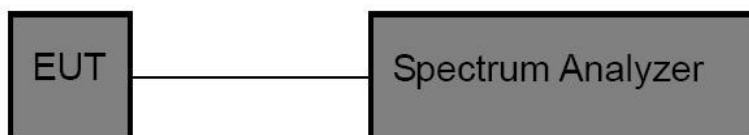


## 9.1 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and ANSI 63.10: 2013 Sec 10.3.7. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set the RBW to 1 MHz.
- b) Set the VBW to be at least 1 MHz (a VBW of 3 MHz is desirable).
- c) Set the frequency span to examine the spectrum across a convenient frequency segment (e.g., 600 MHz).
- d) Select the power averaging (rms) detector.
- e) Set the sweep time so that there is no more than a 1 ms integration period over each measurement bin.
- f) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

## 9.2 Test Setup







### 9.3 Test Result

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations / data rates and antenna ports.

Following channel was selected for the final test as listed below

| TestMode   | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A        | Ant1    | 5180           | 0.56             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5200           | 1.12             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5240           | 2.28             | ≤11.00         | PASS    |
| 11A        | Ant1    | 5745           | -2.09            | ≤30.00         | PASS    |
| 11A        | Ant1    | 5785           | -1.82            | ≤30.00         | PASS    |
| 11A        | Ant1    | 5825           | -3.03            | ≤30.00         | PASS    |
| 11N20SISO  | Ant1    | 5180           | -0.01            | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5200           | 0.68             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5240           | 2.14             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5745           | -2.2             | ≤30.00         | PASS    |
| 11N20SISO  | Ant1    | 5785           | -2.34            | ≤30.00         | PASS    |
| 11N20SISO  | Ant1    | 5825           | -3.16            | ≤30.00         | PASS    |
| 11N40SISO  | Ant1    | 5190           | -1.51            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5230           | -1.22            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5755           | -5.33            | ≤30.00         | PASS    |
| 11N40SISO  | Ant1    | 5795           | -5.46            | ≤30.00         | PASS    |
| 11AC20SISO | Ant1    | 5180           | 0.28             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5200           | 0.85             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5240           | 1.87             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5745           | -1.92            | ≤30.00         | PASS    |
| 11AC20SISO | Ant1    | 5785           | -2.15            | ≤30.00         | PASS    |
| 11AC20SISO | Ant1    | 5825           | -3.71            | ≤30.00         | PASS    |
| 11AC40SISO | Ant1    | 5190           | -2.97            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5230           | -1.14            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5755           | -5.78            | ≤30.00         | PASS    |
| 11AC40SISO | Ant1    | 5795           | -5.33            | ≤30.00         | PASS    |

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

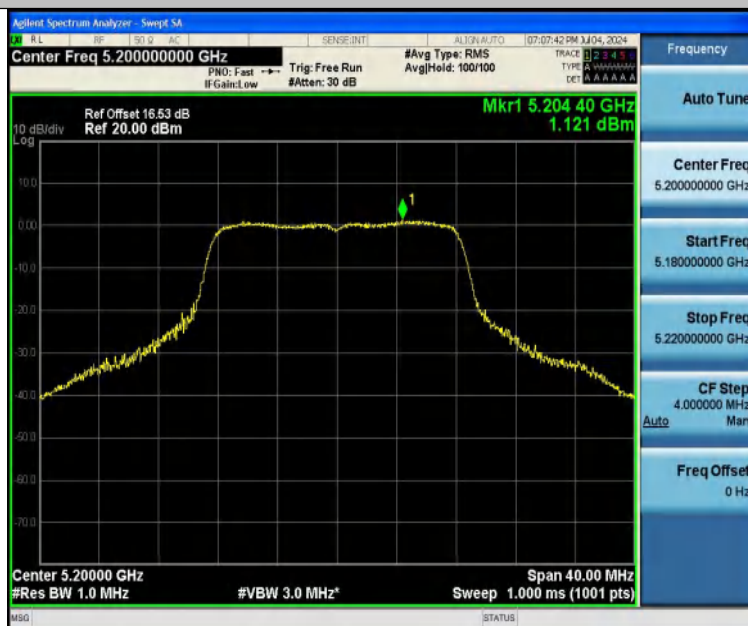
2. in the band 5.725–5.85 GHz the test RBW select 300KHz,so the measured result corrected by Result+10 log (500 kHz/300kHz).



## Test Graphs:



11A-Ant1-5180-PASS



11A-Ant1-5200-PASS



11A-Ant1-5240-PASS



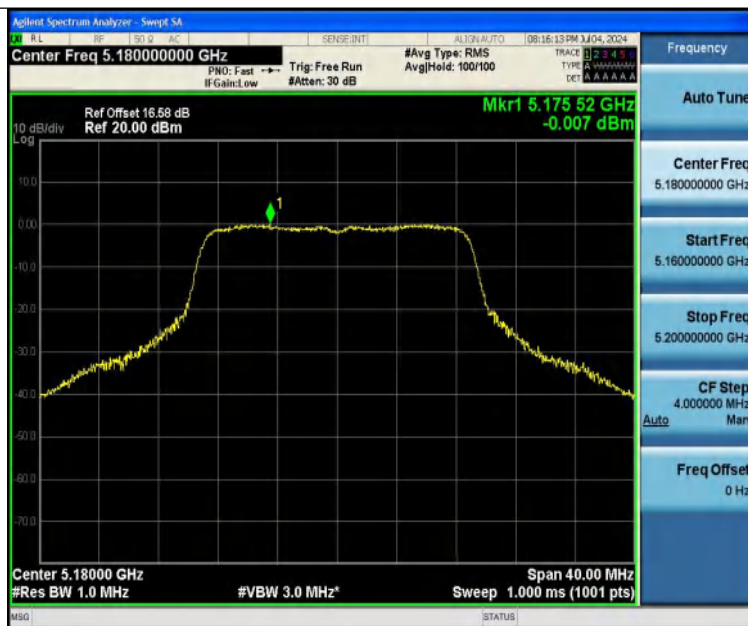
11A-Ant1-5745-PASS



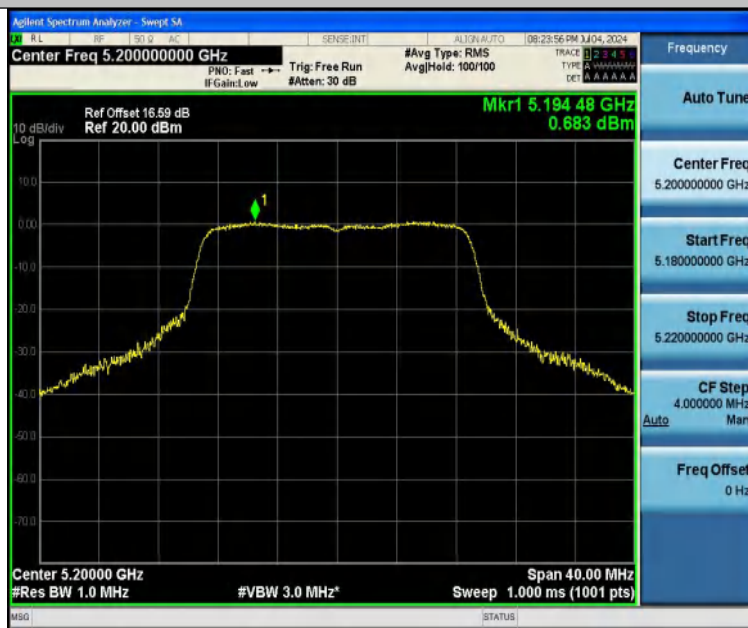
11A-Ant1-5785-PASS



11A-Ant1-5825-PASS



11N20SISO-Ant1-5180-PASS



11N20SISO-Ant1-5200-PASS



11N20SISO-Ant1-5240-PASS



11N20SISO-Ant1-5745-PASS



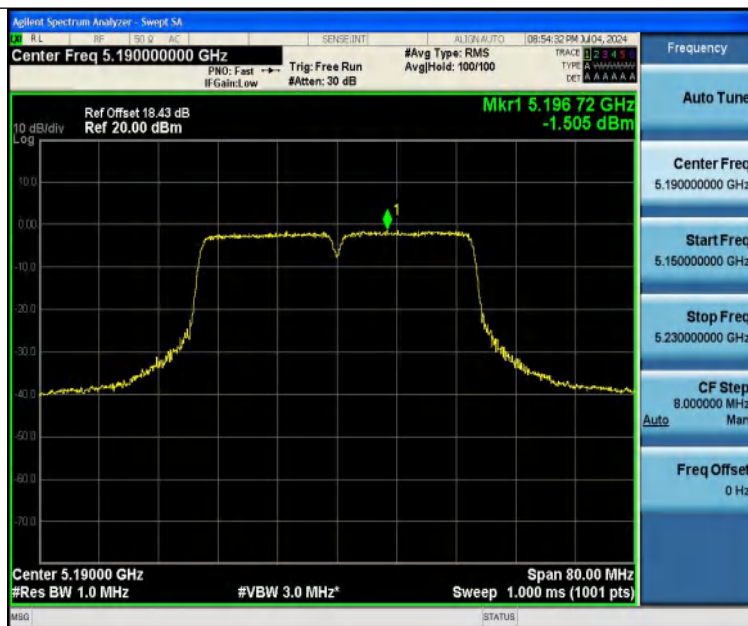


11N20SISO-Ant1-5785-PASS

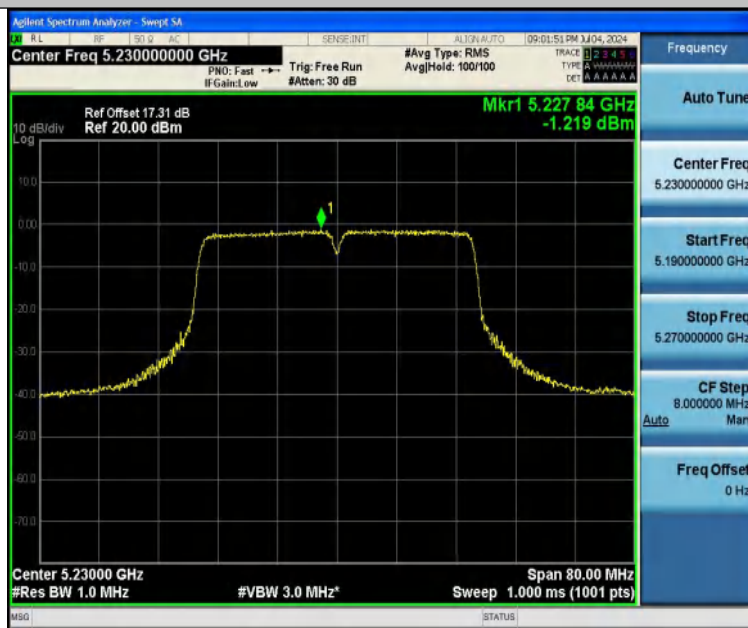


11N20SISO-Ant1-5825-PASS





11N40ISO-Ant1-5190-PASS



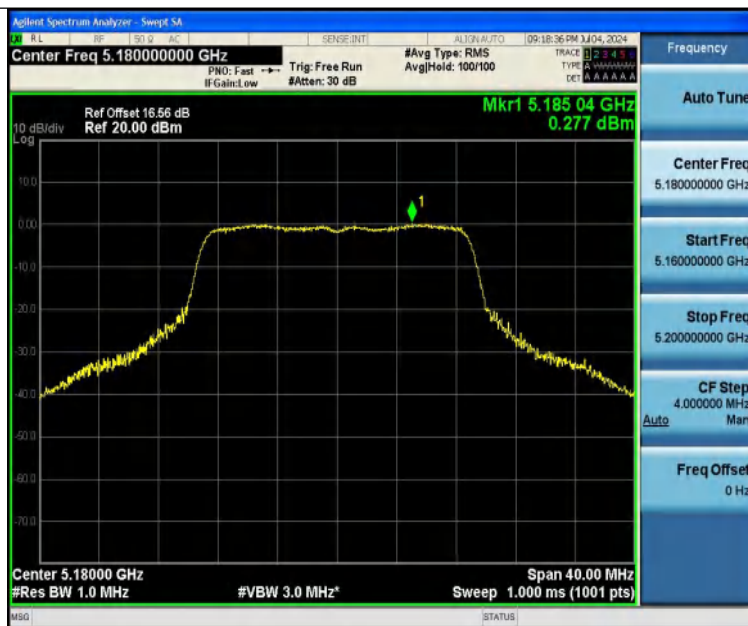
11N40ISO-Ant1-5230-PASS



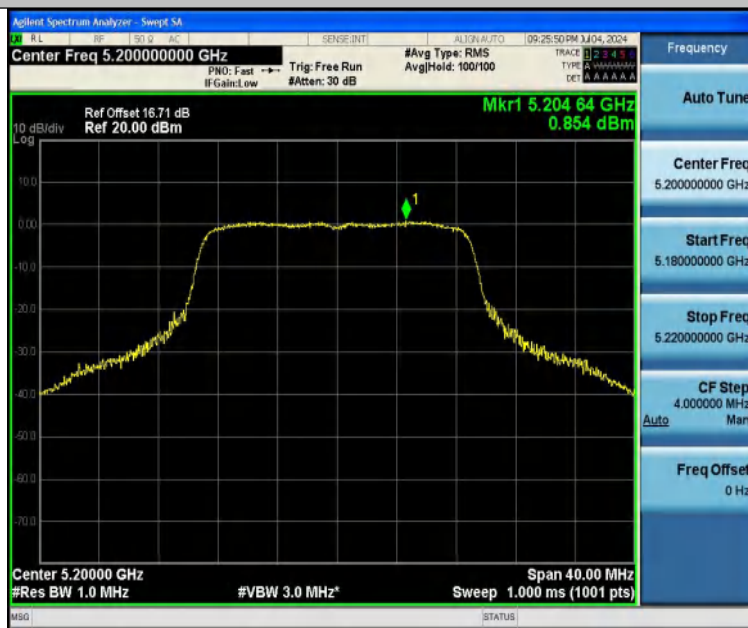
11N40ISO-Ant1-5755-PASS



11N40ISO-Ant1-5795-PASS



11AC20SISO-Ant1-5180-PASS



11AC20SISO-Ant1-5200-PASS



11AC20SISO-Ant1-5240-PASS



11AC20SISO-Ant1-5745-PASS



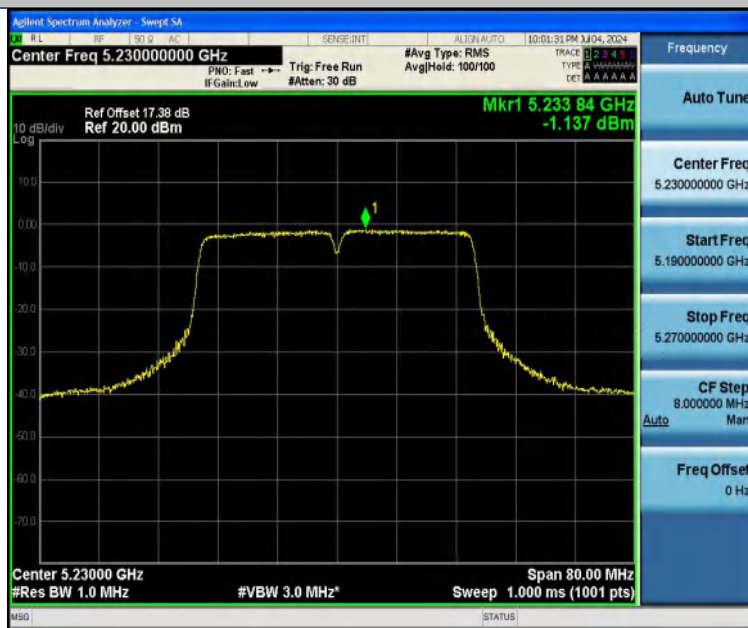
11AC20SISO-Ant1-5785-PASS



11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5190-PASS



11AC40SISO-Ant1-5230-PASS





11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS





#### **9.4 Antenna Requirement**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### **9.5 Result**

The EUT'S antenna, permanent attached antenna, is PCB Antenna. The antenna's gain is 5.2G:2.98 dBi; 5.8G:2.37 dBi and meets the requirement.

## 10 Frequency Stability

Test Requirement : FCC Part15 E Section 15.407 (g)

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

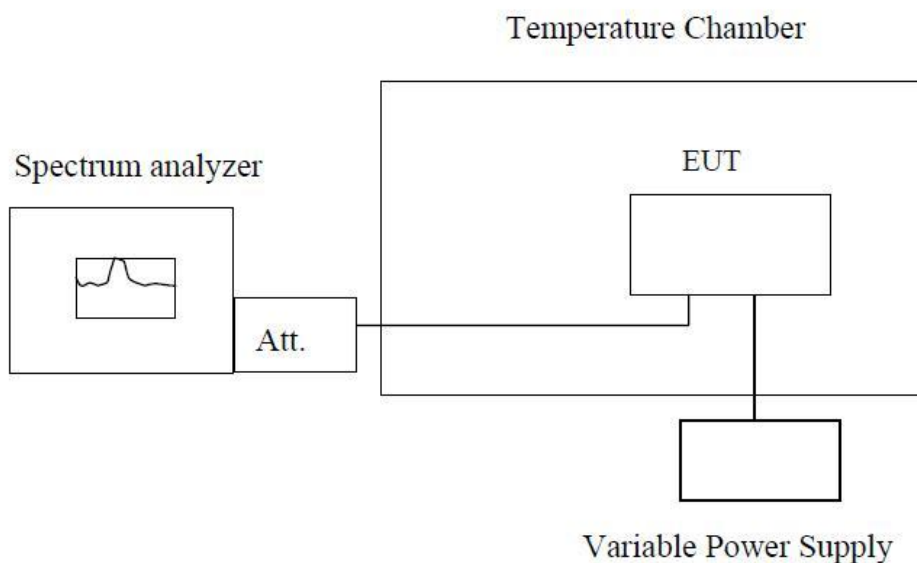
### 10.1 Test Procedure

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

Test voltage:

| NV    | LV    | HV    |
|-------|-------|-------|
| 12.0V | 10.2V | 13.8V |

### 10.2 Test Setup





### 10.3 Test Result

| TestMode  | Antenna | Frequency [MHz] | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|---------|-----------------|---------------|------------------|----------------|-----------------|-------------|---------|
| 11A       | Ant1    | 5180            | NV            | NT               | -40000.00      | -7.722008       | 20          | PASS    |
| 11A       | Ant1    | 5180            | LV            | NT               | -40000.00      | -7.722008       | 20          | PASS    |
| 11A       | Ant1    | 5180            | HV            | NT               | -20000.00      | -3.861004       | 20          | PASS    |
| 11A       | Ant1    | 5200            | NV            | NT               | -40000.00      | -7.692308       | 20          | PASS    |
| 11A       | Ant1    | 5200            | LV            | NT               | -20000.00      | -3.846154       | 20          | PASS    |
| 11A       | Ant1    | 5200            | HV            | NT               | -40000.00      | -7.692308       | 20          | PASS    |
| 11A       | Ant1    | 5240            | NV            | NT               | -60000.00      | -11.450382      | 20          | PASS    |
| 11A       | Ant1    | 5240            | LV            | NT               | -40000.00      | -7.633588       | 20          | PASS    |
| 11A       | Ant1    | 5240            | HV            | NT               | -40000.00      | -7.633588       | 20          | PASS    |
| 11A       | Ant1    | 5745            | NV            | NT               | -60000.00      | -10.443864      | 20          | PASS    |
| 11A       | Ant1    | 5745            | LV            | NT               | -40000.00      | -6.962576       | 20          | PASS    |
| 11A       | Ant1    | 5745            | HV            | NT               | -40000.00      | -6.962576       | 20          | PASS    |
| 11A       | Ant1    | 5785            | NV            | NT               | -60000.00      | -10.371651      | 20          | PASS    |
| 11A       | Ant1    | 5785            | LV            | NT               | -40000.00      | -6.914434       | 20          | PASS    |
| 11A       | Ant1    | 5785            | HV            | NT               | -60000.00      | -10.371651      | 20          | PASS    |
| 11A       | Ant1    | 5825            | NV            | NT               | -40000.00      | -6.866953       | 20          | PASS    |
| 11A       | Ant1    | 5825            | LV            | NT               | -60000.00      | -10.300429      | 20          | PASS    |
| 11A       | Ant1    | 5825            | HV            | NT               | -40000.00      | -6.866953       | 20          | PASS    |
| 11N20SISO | Ant1    | 5180            | NV            | NT               | -40000.00      | -7.722008       | 20          | PASS    |
| 11N20SISO | Ant1    | 5180            | LV            | NT               | -40000.00      | -7.722008       | 20          | PASS    |
| 11N20SISO | Ant1    | 5180            | HV            | NT               | -20000.00      | -3.861004       | 20          | PASS    |
| 11N20SISO | Ant1    | 5200            | NV            | NT               | -60000.00      | -11.538462      | 20          | PASS    |
| 11N20SISO | Ant1    | 5200            | LV            | NT               | -40000.00      | -7.692308       | 20          | PASS    |
| 11N20SISO | Ant1    | 5200            | HV            | NT               | -40000.00      | -7.692308       | 20          | PASS    |
| 11N20SISO | Ant1    | 5240            | NV            | NT               | -40000.00      | -7.633588       | 20          | PASS    |
| 11N20SISO | Ant1    | 5240            | LV            | NT               | -20000.00      | -3.816794       | 20          | PASS    |
| 11N20SISO | Ant1    | 5240            | HV            | NT               | -40000.00      | -7.633588       | 20          | PASS    |
| 11N20SISO | Ant1    | 5745            | NV            | NT               | -40000.00      | -6.962576       | 20          | PASS    |
| 11N20SISO | Ant1    | 5745            | LV            | NT               | -60000.00      | -10.443864      | 20          | PASS    |
| 11N20SISO | Ant1    | 5745            | HV            | NT               | -40000.00      | -6.962576       | 20          | PASS    |
| 11N20SISO | Ant1    | 5785            | NV            | NT               | -60000.00      | -10.371651      | 20          | PASS    |
| 11N20SISO | Ant1    | 5785            | LV            | NT               | -40000.00      | -6.914434       | 20          | PASS    |
| 11N20SISO | Ant1    | 5785            | HV            | NT               | -40000.00      | -6.914434       | 20          | PASS    |
| 11N20SISO | Ant1    | 5825            | NV            | NT               | -60000.00      | -10.300429      | 20          | PASS    |
| 11N20SISO | Ant1    | 5825            | LV            | NT               | -40000.00      | -6.866953       | 20          | PASS    |
| 11N20SISO | Ant1    | 5825            | HV            | NT               | -40000.00      | -6.866953       | 20          | PASS    |
| 11N40SISO | Ant1    | 5190            | NV            | NT               | -40000.00      | -7.707129       | 20          | PASS    |
| 11N40SISO | Ant1    | 5190            | LV            | NT               | -40000.00      | -7.707129       | 20          | PASS    |
| 11N40SISO | Ant1    | 5190            | HV            | NT               | -40000.00      | -7.707129       | 20          | PASS    |
| 11N40SISO | Ant1    | 5230            | NV            | NT               | -40000.00      | -7.648184       | 20          | PASS    |
| 11N40SISO | Ant1    | 5230            | LV            | NT               | -40000.00      | -7.648184       | 20          | PASS    |
| 11N40SISO | Ant1    | 5230            | HV            | NT               | -40000.00      | -7.648184       | 20          | PASS    |
| 11N40SISO | Ant1    | 5755            | NV            | NT               | -40000.00      | -6.950478       | 20          | PASS    |
| 11N40SISO | Ant1    | 5755            | LV            | NT               | -40000.00      | -6.950478       | 20          | PASS    |
| 11N40SISO | Ant1    | 5755            | HV            | NT               | -40000.00      | -6.950478       | 20          | PASS    |
| 11N40SISO | Ant1    | 5795            | NV            | NT               | -40000.00      | -6.902502       | 20          | PASS    |
| 11N40SISO | Ant1    | 5795            | LV            | NT               | -80000.00      | -13.805004      | 20          | PASS    |



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|            |      |      |    |    |           |            |    |      |
|------------|------|------|----|----|-----------|------------|----|------|
| 11N40SISO  | Ant1 | 5795 | HV | NT | -80000.00 | -13.805004 | 20 | PASS |
| 11AC20SISO | Ant1 | 5180 | NV | NT | -40000.00 | -7.722008  | 20 | PASS |
| 11AC20SISO | Ant1 | 5180 | LV | NT | -40000.00 | -7.722008  | 20 | PASS |
| 11AC20SISO | Ant1 | 5180 | HV | NT | -40000.00 | -7.722008  | 20 | PASS |
| 11AC20SISO | Ant1 | 5200 | NV | NT | -40000.00 | -7.692308  | 20 | PASS |
| 11AC20SISO | Ant1 | 5200 | LV | NT | -60000.00 | -11.538462 | 20 | PASS |
| 11AC20SISO | Ant1 | 5200 | HV | NT | -40000.00 | -7.692308  | 20 | PASS |
| 11AC20SISO | Ant1 | 5240 | NV | NT | -60000.00 | -11.450382 | 20 | PASS |
| 11AC20SISO | Ant1 | 5240 | LV | NT | -40000.00 | -7.633588  | 20 | PASS |
| 11AC20SISO | Ant1 | 5240 | HV | NT | -40000.00 | -7.633588  | 20 | PASS |
| 11AC20SISO | Ant1 | 5745 | NV | NT | -60000.00 | -10.443864 | 20 | PASS |
| 11AC20SISO | Ant1 | 5745 | LV | NT | -60000.00 | -10.443864 | 20 | PASS |
| 11AC20SISO | Ant1 | 5745 | HV | NT | -60000.00 | -10.443864 | 20 | PASS |
| 11AC20SISO | Ant1 | 5785 | NV | NT | -60000.00 | -10.371651 | 20 | PASS |
| 11AC20SISO | Ant1 | 5785 | LV | NT | -40000.00 | -6.914434  | 20 | PASS |
| 11AC20SISO | Ant1 | 5785 | HV | NT | -60000.00 | -10.371651 | 20 | PASS |
| 11AC20SISO | Ant1 | 5825 | NV | NT | -40000.00 | -6.866953  | 20 | PASS |
| 11AC20SISO | Ant1 | 5825 | LV | NT | -40000.00 | -6.866953  | 20 | PASS |
| 11AC20SISO | Ant1 | 5825 | HV | NT | -40000.00 | -6.866953  | 20 | PASS |
| 11AC40SISO | Ant1 | 5190 | NV | NT | -40000.00 | -7.707129  | 20 | PASS |
| 11AC40SISO | Ant1 | 5190 | LV | NT | -40000.00 | -7.707129  | 20 | PASS |
| 11AC40SISO | Ant1 | 5190 | HV | NT | -40000.00 | -7.707129  | 20 | PASS |
| 11AC40SISO | Ant1 | 5230 | NV | NT | -40000.00 | -7.648184  | 20 | PASS |
| 11AC40SISO | Ant1 | 5230 | LV | NT | -40000.00 | -7.648184  | 20 | PASS |
| 11AC40SISO | Ant1 | 5230 | HV | NT | -40000.00 | -7.648184  | 20 | PASS |
| 11AC40SISO | Ant1 | 5755 | NV | NT | -40000.00 | -6.950478  | 20 | PASS |
| 11AC40SISO | Ant1 | 5755 | LV | NT | -40000.00 | -6.950478  | 20 | PASS |
| 11AC40SISO | Ant1 | 5755 | HV | NT | -40000.00 | -6.950478  | 20 | PASS |
| 11AC40SISO | Ant1 | 5795 | NV | NT | -40000.00 | -6.902502  | 20 | PASS |
| 11AC40SISO | Ant1 | 5795 | LV | NT | -40000.00 | -6.902502  | 20 | PASS |
| 11AC40SISO | Ant1 | 5795 | HV | NT | -80000.00 | -13.805004 | 20 | PASS |



| TestMode | Antenna | Frequenc<br>y[MHz] | Voltage<br>[Vdc] | Temperat<br>ure<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
|----------|---------|--------------------|------------------|-------------------------|-------------------|--------------------|----------------|---------|
| 11A      | Ant1    | 5180               | NV               | -30                     | -20000.00         | -3.861004          | 20             | PASS    |
|          |         |                    | NV               | -20                     | -20000.00         | -3.861004          | 20             | PASS    |
|          |         |                    | NV               | -10                     | -40000.00         | -7.722008          | 20             | PASS    |
|          |         |                    | NV               | 0                       | -40000.00         | -7.722008          | 20             | PASS    |
|          |         |                    | NV               | 10                      | -40000.00         | -7.722008          | 20             | PASS    |
|          |         |                    | NV               | 20                      | -40000.00         | -7.722008          | 20             | PASS    |
|          |         |                    | NV               | 30                      | -20000.00         | -3.861004          | 20             | PASS    |
|          |         |                    | NV               | 40                      | -40000.00         | -7.722008          | 20             | PASS    |
|          |         | 5200               | NV               | 50                      | -20000.00         | -3.861004          | 20             | PASS    |
|          |         |                    | NV               | -30                     | -40000.00         | -7.692308          | 20             | PASS    |
|          |         |                    | NV               | -20                     | -40000.00         | -7.692308          | 20             | PASS    |
|          |         |                    | NV               | -10                     | -40000.00         | -7.692308          | 20             | PASS    |
|          |         |                    | NV               | 0                       | -20000.00         | -3.846154          | 20             | PASS    |
|          |         |                    | NV               | 10                      | -20000.00         | -3.846154          | 20             | PASS    |
|          |         |                    | NV               | 20                      | -40000.00         | -7.692308          | 20             | PASS    |
|          |         |                    | NV               | 30                      | -40000.00         | -7.692308          | 20             | PASS    |
|          |         | 5240               | NV               | 40                      | -40000.00         | -7.692308          | 20             | PASS    |
|          |         |                    | NV               | 50                      | -40000.00         | -7.692308          | 20             | PASS    |
|          |         |                    | NV               | -30                     | -60000.00         | -11.450382         | 20             | PASS    |
|          |         |                    | NV               | -20                     | -60000.00         | -11.450382         | 20             | PASS    |
|          |         |                    | NV               | -10                     | -40000.00         | -7.633588          | 20             | PASS    |
|          |         |                    | NV               | 0                       | -20000.00         | -3.816794          | 20             | PASS    |
|          |         |                    | NV               | 10                      | -40000.00         | -7.633588          | 20             | PASS    |
|          |         |                    | NV               | 20                      | -40000.00         | -7.633588          | 20             | PASS    |
|          |         | 5745               | NV               | 30                      | -20000.00         | -3.816794          | 20             | PASS    |
|          |         |                    | NV               | 40                      | -40000.00         | -7.633588          | 20             | PASS    |
|          |         |                    | NV               | 50                      | -40000.00         | -7.633588          | 20             | PASS    |
|          |         |                    | NV               | -30                     | -60000.00         | -10.443864         | 20             | PASS    |
|          |         |                    | NV               | -20                     | -60000.00         | -10.443864         | 20             | PASS    |
|          |         |                    | NV               | -10                     | -40000.00         | -6.962576          | 20             | PASS    |
|          |         |                    | NV               | 0                       | -60000.00         | -10.443864         | 20             | PASS    |
|          |         |                    | NV               | 10                      | -60000.00         | -10.443864         | 20             | PASS    |
|          |         | 5785               | NV               | 20                      | -60000.00         | -10.443864         | 20             | PASS    |
|          |         |                    | NV               | 30                      | -40000.00         | -6.962576          | 20             | PASS    |
|          |         |                    | NV               | 40                      | -40000.00         | -6.962576          | 20             | PASS    |
|          |         |                    | NV               | 50                      | -60000.00         | -10.443864         | 20             | PASS    |
|          |         |                    | NV               | -30                     | -60000.00         | -10.371651         | 20             | PASS    |
|          |         |                    | NV               | -20                     | -40000.00         | -6.914434          | 20             | PASS    |
|          |         |                    | NV               | -10                     | -40000.00         | -6.914434          | 20             | PASS    |
|          |         |                    | NV               | 0                       | -60000.00         | -10.371651         | 20             | PASS    |
|          |         | 5825               | NV               | 10                      | -40000.00         | -6.914434          | 20             | PASS    |
|          |         |                    | NV               | 20                      | -40000.00         | -6.914434          | 20             | PASS    |
|          |         |                    | NV               | 30                      | -60000.00         | -10.371651         | 20             | PASS    |
|          |         |                    | NV               | 40                      | -60000.00         | -10.371651         | 20             | PASS    |
|          |         |                    | NV               | 50                      | -60000.00         | -10.371651         | 20             | PASS    |
|          |         |                    | NV               | -30                     | -40000.00         | -6.866953          | 20             | PASS    |
|          |         |                    | NV               | -20                     | -40000.00         | -6.866953          | 20             | PASS    |
|          |         |                    | NV               | -10                     | -40000.00         | -6.866953          | 20             | PASS    |
|          |         |                    | NV               | 0                       | -60000.00         | -10.300429         | 20             | PASS    |
|          |         |                    | NV               | 10                      | -60000.00         | -10.300429         | 20             | PASS    |
|          |         |                    | NV               | 20                      | -40000.00         | -6.866953          | 20             | PASS    |
|          |         |                    | NV               | 30                      | -60000.00         | -10.300429         | 20             | PASS    |



|           |      |      |    |     |           |            |    |      |
|-----------|------|------|----|-----|-----------|------------|----|------|
| 11N20SISO | Ant1 |      | NV | 40  | -40000.00 | -6.866953  | 20 | PASS |
|           |      |      | NV | 50  | -60000.00 | -10.300429 | 20 | PASS |
|           |      | 5180 | NV | -30 | -20000.00 | -3.861004  | 20 | PASS |
|           |      |      | NV | -20 | -40000.00 | -7.722008  | 20 | PASS |
|           |      |      | NV | -10 | -20000.00 | -3.861004  | 20 | PASS |
|           |      |      | NV | 0   | -40000.00 | -7.722008  | 20 | PASS |
|           |      |      | NV | 10  | -40000.00 | -7.722008  | 20 | PASS |
|           |      |      | NV | 20  | -40000.00 | -7.722008  | 20 | PASS |
|           |      |      | NV | 30  | -20000.00 | -3.861004  | 20 | PASS |
|           |      |      | NV | 40  | -40000.00 | -7.722008  | 20 | PASS |
|           |      |      | NV | 50  | -60000.00 | -11.583012 | 20 | PASS |
|           |      |      | NV | -30 | -40000.00 | -7.692308  | 20 | PASS |
|           |      | 5200 | NV | -20 | -40000.00 | -7.692308  | 20 | PASS |
|           |      |      | NV | -10 | -60000.00 | -11.538462 | 20 | PASS |
|           |      |      | NV | 0   | -40000.00 | -7.692308  | 20 | PASS |
|           |      |      | NV | 10  | -60000.00 | -11.538462 | 20 | PASS |
|           |      |      | NV | 20  | -40000.00 | -7.692308  | 20 | PASS |
|           |      |      | NV | 30  | -40000.00 | -7.692308  | 20 | PASS |
|           |      |      | NV | 40  | -40000.00 | -7.692308  | 20 | PASS |
|           |      |      | NV | 50  | -20000.00 | -3.846154  | 20 | PASS |
|           |      | 5240 | NV | -30 | -20000.00 | -3.816794  | 20 | PASS |
|           |      |      | NV | -20 | -40000.00 | -7.633588  | 20 | PASS |
|           |      |      | NV | -10 | -20000.00 | -3.816794  | 20 | PASS |
|           |      |      | NV | 0   | -20000.00 | -3.816794  | 20 | PASS |
|           |      |      | NV | 10  | -40000.00 | -7.633588  | 20 | PASS |
|           |      |      | NV | 20  | -40000.00 | -7.633588  | 20 | PASS |
|           |      |      | NV | 30  | -40000.00 | -7.633588  | 20 | PASS |
|           |      |      | NV | 40  | -40000.00 | -7.633588  | 20 | PASS |
|           |      | 5745 | NV | 50  | -40000.00 | -7.633588  | 20 | PASS |
|           |      |      | NV | -30 | -60000.00 | -10.443864 | 20 | PASS |
|           |      |      | NV | -20 | -20000.00 | -3.481288  | 20 | PASS |
|           |      |      | NV | -10 | -60000.00 | -10.443864 | 20 | PASS |
|           |      |      | NV | 0   | -40000.00 | -6.962576  | 20 | PASS |
|           |      |      | NV | 10  | -60000.00 | -10.443864 | 20 | PASS |
|           |      |      | NV | 20  | -60000.00 | -10.443864 | 20 | PASS |
|           |      |      | NV | 30  | -40000.00 | -6.962576  | 20 | PASS |
|           |      | 5785 | NV | 40  | -60000.00 | -10.443864 | 20 | PASS |
|           |      |      | NV | 50  | -40000.00 | -6.962576  | 20 | PASS |
|           |      |      | NV | -30 | -40000.00 | -6.914434  | 20 | PASS |
|           |      |      | NV | -20 | -40000.00 | -6.914434  | 20 | PASS |
|           |      |      | NV | -10 | -40000.00 | -6.914434  | 20 | PASS |
|           |      |      | NV | 0   | -40000.00 | -6.914434  | 20 | PASS |
|           |      |      | NV | 10  | -60000.00 | -10.371651 | 20 | PASS |
|           |      |      | NV | 20  | -40000.00 | -6.914434  | 20 | PASS |
|           |      | 5825 | NV | 30  | -40000.00 | -6.914434  | 20 | PASS |
|           |      |      | NV | 40  | -60000.00 | -10.371651 | 20 | PASS |
|           |      |      | NV | 50  | -60000.00 | -10.371651 | 20 | PASS |
|           |      |      | NV | -30 | -60000.00 | -10.300429 | 20 | PASS |
|           |      |      | NV | -20 | -40000.00 | -6.866953  | 20 | PASS |
|           |      |      | NV | -10 | -40000.00 | -6.866953  | 20 | PASS |
|           |      |      | NV | 0   | -40000.00 | -6.866953  | 20 | PASS |
|           |      |      | NV | 10  | -40000.00 | -6.866953  | 20 | PASS |
|           |      | 5825 | NV | 20  | -40000.00 | -6.866953  | 20 | PASS |
|           |      |      | NV | 30  | -60000.00 | -10.300429 | 20 | PASS |
|           |      |      | NV | 40  | -40000.00 | -6.866953  | 20 | PASS |
|           |      |      | NV | 50  | -60000.00 | -10.300429 | 20 | PASS |



|            |      |      |    |     |           |            |    |      |
|------------|------|------|----|-----|-----------|------------|----|------|
| 11N40SISO  | Ant1 | 5190 | NV | -30 | -40000.00 | -7.707129  | 20 | PASS |
|            |      |      | NV | -20 | -40000.00 | -7.707129  | 20 | PASS |
|            |      |      | NV | -10 | -40000.00 | -7.707129  | 20 | PASS |
|            |      |      | NV | 0   | -40000.00 | -7.707129  | 20 | PASS |
|            |      |      | NV | 10  | -40000.00 | -7.707129  | 20 | PASS |
|            |      |      | NV | 20  | -40000.00 | -7.707129  | 20 | PASS |
|            |      |      | NV | 30  | -40000.00 | -7.707129  | 20 | PASS |
|            |      |      | NV | 40  | -40000.00 | -7.707129  | 20 | PASS |
|            |      | 5230 | NV | 50  | -40000.00 | -7.707129  | 20 | PASS |
|            |      |      | NV | -30 | -40000.00 | -7.648184  | 20 | PASS |
|            |      |      | NV | -20 | -40000.00 | -7.648184  | 20 | PASS |
|            |      |      | NV | -10 | -40000.00 | -7.648184  | 20 | PASS |
|            |      |      | NV | 0   | -40000.00 | -7.648184  | 20 | PASS |
|            |      |      | NV | 10  | -40000.00 | -7.648184  | 20 | PASS |
|            |      |      | NV | 20  | -40000.00 | -7.648184  | 20 | PASS |
|            |      |      | NV | 30  | -40000.00 | -7.648184  | 20 | PASS |
|            |      | 5755 | NV | 40  | -40000.00 | -7.648184  | 20 | PASS |
|            |      |      | NV | 50  | -40000.00 | -7.648184  | 20 | PASS |
|            |      |      | NV | -30 | -40000.00 | -6.950478  | 20 | PASS |
|            |      |      | NV | -20 | -40000.00 | -6.950478  | 20 | PASS |
|            |      |      | NV | -10 | -40000.00 | -6.950478  | 20 | PASS |
|            |      |      | NV | 0   | -40000.00 | -6.950478  | 20 | PASS |
|            |      |      | NV | 10  | -40000.00 | -6.950478  | 20 | PASS |
|            |      |      | NV | 20  | -40000.00 | -6.950478  | 20 | PASS |
| 11AC20SISO | Ant1 | 5795 | NV | 30  | -40000.00 | -6.950478  | 20 | PASS |
|            |      |      | NV | 40  | -40000.00 | -6.950478  | 20 | PASS |
|            |      |      | NV | 50  | -40000.00 | -6.950478  | 20 | PASS |
|            |      |      | NV | -30 | -40000.00 | -6.902502  | 20 | PASS |
|            |      |      | NV | -20 | -80000.00 | -13.805004 | 20 | PASS |
|            |      |      | NV | -10 | -40000.00 | -6.902502  | 20 | PASS |
|            |      |      | NV | 0   | -40000.00 | -6.902502  | 20 | PASS |
|            |      |      | NV | 10  | -40000.00 | -6.902502  | 20 | PASS |
|            |      | 5180 | NV | 20  | -40000.00 | -6.902502  | 20 | PASS |
|            |      |      | NV | 30  | -40000.00 | -6.902502  | 20 | PASS |
|            |      |      | NV | 40  | -40000.00 | -6.902502  | 20 | PASS |
|            |      |      | NV | 50  | -40000.00 | -6.902502  | 20 | PASS |
|            |      |      | NV | -30 | -60000.00 | -11.583012 | 20 | PASS |
|            |      |      | NV | -20 | -40000.00 | -7.722008  | 20 | PASS |
|            |      |      | NV | -10 | -40000.00 | -7.722008  | 20 | PASS |
|            |      |      | NV | 0   | -40000.00 | -7.722008  | 20 | PASS |
|            |      | 5200 | NV | 10  | -60000.00 | -11.583012 | 20 | PASS |
|            |      |      | NV | 20  | -40000.00 | -7.722008  | 20 | PASS |
|            |      |      | NV | 30  | -60000.00 | -11.583012 | 20 | PASS |
|            |      |      | NV | 40  | -40000.00 | -7.722008  | 20 | PASS |
|            |      |      | NV | 50  | -40000.00 | -7.722008  | 20 | PASS |
|            |      |      | NV | -30 | -40000.00 | -7.692308  | 20 | PASS |
|            |      |      | NV | -20 | -40000.00 | -7.692308  | 20 | PASS |
|            |      |      | NV | -10 | -60000.00 | -11.538462 | 20 | PASS |
|            |      | 5240 | NV | 0   | -60000.00 | -11.538462 | 20 | PASS |
|            |      |      | NV | 10  | -60000.00 | -11.538462 | 20 | PASS |
|            |      |      | NV | 20  | -40000.00 | -7.692308  | 20 | PASS |
|            |      |      | NV | 30  | -60000.00 | -11.538462 | 20 | PASS |
|            |      |      | NV | 40  | -40000.00 | -7.692308  | 20 | PASS |
|            |      |      | NV | 50  | -40000.00 | -7.692308  | 20 | PASS |
|            |      |      | NV | -30 | -40000.00 | -7.633588  | 20 | PASS |
|            |      |      | NV | -20 | -60000.00 | -11.450382 | 20 | PASS |





|                |      |      |    |     |           |            |    |      |
|----------------|------|------|----|-----|-----------|------------|----|------|
|                |      |      | NV | -10 | -40000.00 | -7.633588  | 20 | PASS |
|                |      |      | NV | 0   | -40000.00 | -7.633588  | 20 | PASS |
|                |      |      | NV | 10  | -60000.00 | -11.450382 | 20 | PASS |
|                |      |      | NV | 20  | -40000.00 | -7.633588  | 20 | PASS |
|                |      |      | NV | 30  | -40000.00 | -7.633588  | 20 | PASS |
|                |      |      | NV | 40  | -60000.00 | -11.450382 | 20 | PASS |
|                |      |      | NV | 50  | -40000.00 | -7.633588  | 20 | PASS |
|                |      | 5745 | NV | -30 | -40000.00 | -6.962576  | 20 | PASS |
|                |      |      | NV | -20 | -40000.00 | -6.962576  | 20 | PASS |
|                |      |      | NV | -10 | -40000.00 | -6.962576  | 20 | PASS |
|                |      |      | NV | 0   | -60000.00 | -10.443864 | 20 | PASS |
|                |      |      | NV | 10  | -60000.00 | -10.443864 | 20 | PASS |
|                |      |      | NV | 20  | -60000.00 | -10.443864 | 20 | PASS |
|                |      |      | NV | 30  | -60000.00 | -10.443864 | 20 | PASS |
|                |      |      | NV | 40  | -60000.00 | -10.443864 | 20 | PASS |
|                |      |      | NV | 50  | -40000.00 | -6.962576  | 20 | PASS |
|                |      | 5785 | NV | -30 | -60000.00 | -10.371651 | 20 | PASS |
|                |      |      | NV | -20 | -60000.00 | -10.371651 | 20 | PASS |
|                |      |      | NV | -10 | -60000.00 | -10.371651 | 20 | PASS |
|                |      |      | NV | 0   | -60000.00 | -10.371651 | 20 | PASS |
|                |      |      | NV | 10  | -60000.00 | -10.371651 | 20 | PASS |
|                |      |      | NV | 20  | -60000.00 | -10.371651 | 20 | PASS |
|                |      |      | NV | 30  | -60000.00 | -10.371651 | 20 | PASS |
|                |      |      | NV | 40  | -60000.00 | -10.371651 | 20 | PASS |
|                |      |      | NV | 50  | -40000.00 | -6.914434  | 20 | PASS |
|                |      | 5825 | NV | -30 | -60000.00 | -10.300429 | 20 | PASS |
|                |      |      | NV | -20 | -40000.00 | -6.866953  | 20 | PASS |
|                |      |      | NV | -10 | -60000.00 | -10.300429 | 20 | PASS |
|                |      |      | NV | 0   | -40000.00 | -6.866953  | 20 | PASS |
|                |      |      | NV | 10  | -40000.00 | -6.866953  | 20 | PASS |
|                |      |      | NV | 20  | -60000.00 | -10.300429 | 20 | PASS |
|                |      |      | NV | 30  | -60000.00 | -10.300429 | 20 | PASS |
|                |      |      | NV | 40  | -40000.00 | -6.866953  | 20 | PASS |
|                |      |      | NV | 50  | -60000.00 | -10.300429 | 20 | PASS |
| 11AC40SIS<br>O | Ant1 | 5190 | NV | -30 | -40000.00 | -7.707129  | 20 | PASS |
|                |      |      | NV | -20 | -40000.00 | -7.707129  | 20 | PASS |
|                |      |      | NV | -10 | -40000.00 | -7.707129  | 20 | PASS |
|                |      |      | NV | 0   | -40000.00 | -7.707129  | 20 | PASS |
|                |      |      | NV | 10  | -40000.00 | -7.707129  | 20 | PASS |
|                |      |      | NV | 20  | -40000.00 | -7.707129  | 20 | PASS |
|                |      |      | NV | 30  | -40000.00 | -7.707129  | 20 | PASS |
|                |      |      | NV | 40  | -40000.00 | -7.707129  | 20 | PASS |
|                |      |      | NV | 50  | -40000.00 | -7.707129  | 20 | PASS |
|                |      | 5230 | NV | -30 | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | -20 | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | -10 | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | 0   | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | 10  | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | 20  | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | 30  | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | 40  | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | 50  | -40000.00 | -7.648184  | 20 | PASS |
|                |      | 5755 | NV | -30 | -40000.00 | -6.950478  | 20 | PASS |
|                |      |      | NV | -20 | -40000.00 | -6.950478  | 20 | PASS |
|                |      |      | NV | -10 | -40000.00 | -6.950478  | 20 | PASS |
|                |      |      | NV | 0   | -40000.00 | -6.950478  | 20 | PASS |



Report No.: PTC24060500701E-FC04

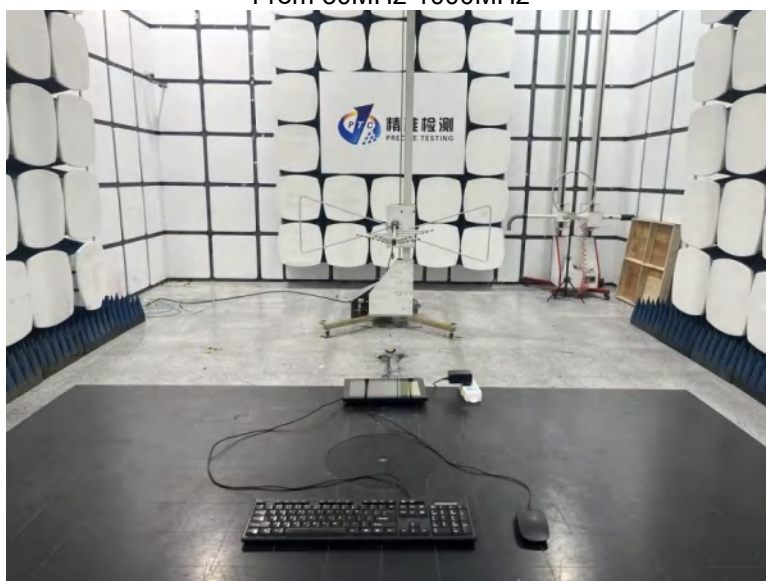
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|--|--|------|----|-----|-----------|------------|----|------|
|  |  |      | NV | 10  | -40000.00 | -6.950478  | 20 | PASS |
|  |  |      | NV | 20  | -40000.00 | -6.950478  | 20 | PASS |
|  |  |      | NV | 30  | -40000.00 | -6.950478  | 20 | PASS |
|  |  |      | NV | 40  | -40000.00 | -6.950478  | 20 | PASS |
|  |  |      | NV | 50  | -80000.00 | -13.900956 | 20 | PASS |
|  |  | 5795 | NV | -30 | -80000.00 | -13.805004 | 20 | PASS |
|  |  |      | NV | -20 | -80000.00 | -13.805004 | 20 | PASS |
|  |  |      | NV | -10 | -80000.00 | -13.805004 | 20 | PASS |
|  |  |      | NV | 0   | -40000.00 | -6.902502  | 20 | PASS |
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|  |  |      | NV | 20  | -40000.00 | -6.902502  | 20 | PASS |
|  |  |      | NV | 30  | -40000.00 | -6.902502  | 20 | PASS |
|  |  |      | NV | 40  | -40000.00 | -6.902502  | 20 | PASS |
|  |  |      | NV | 50  | -40000.00 | -6.902502  | 20 | PASS |

## 11 Test Setup

Conducted Emissions



Radiated Spurious Emissions  
From 30MHz-1000MHz

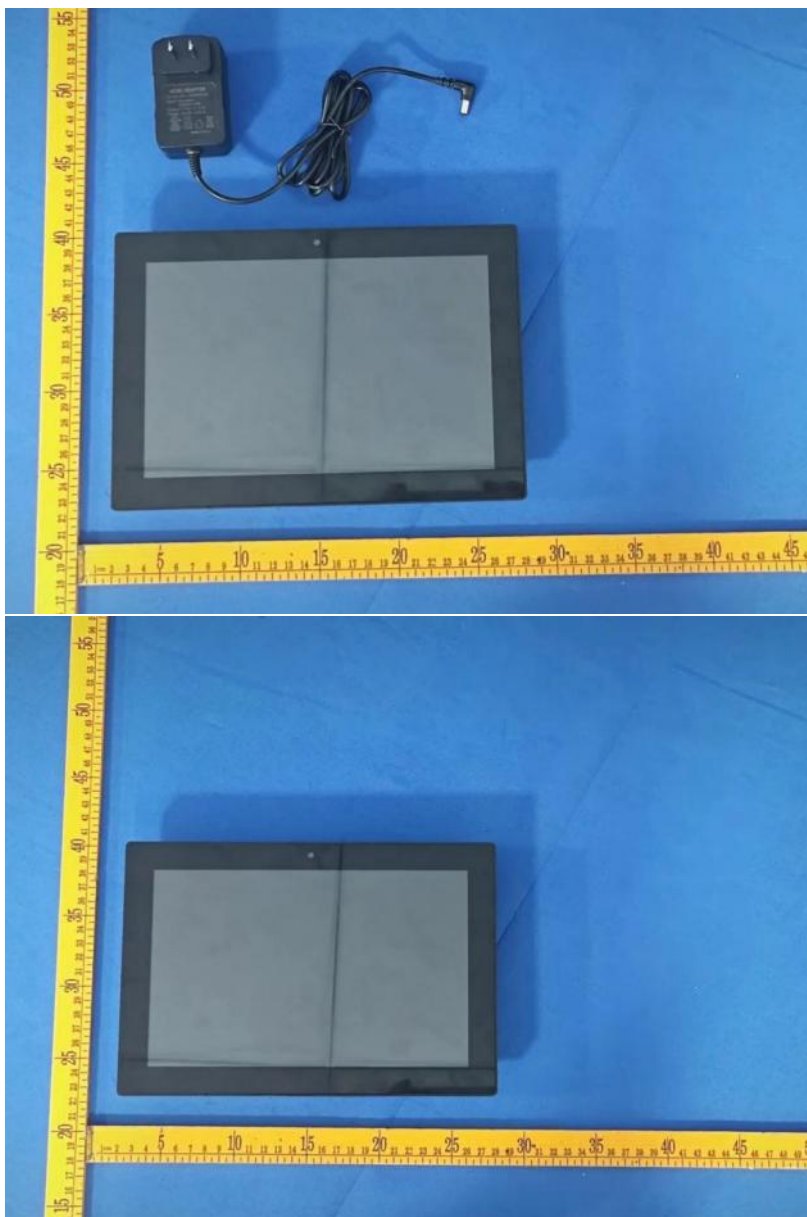




Test frequency from Above 1GHz

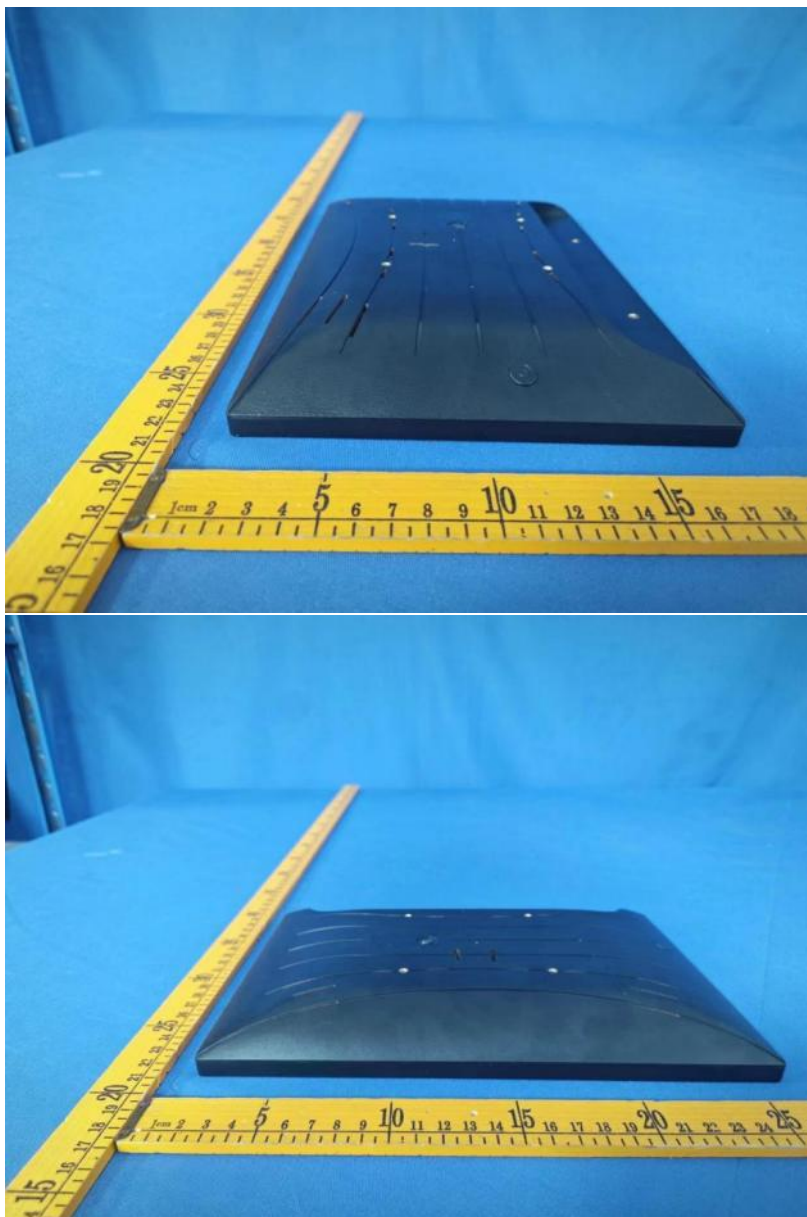


## 12 EUT PHOTOS

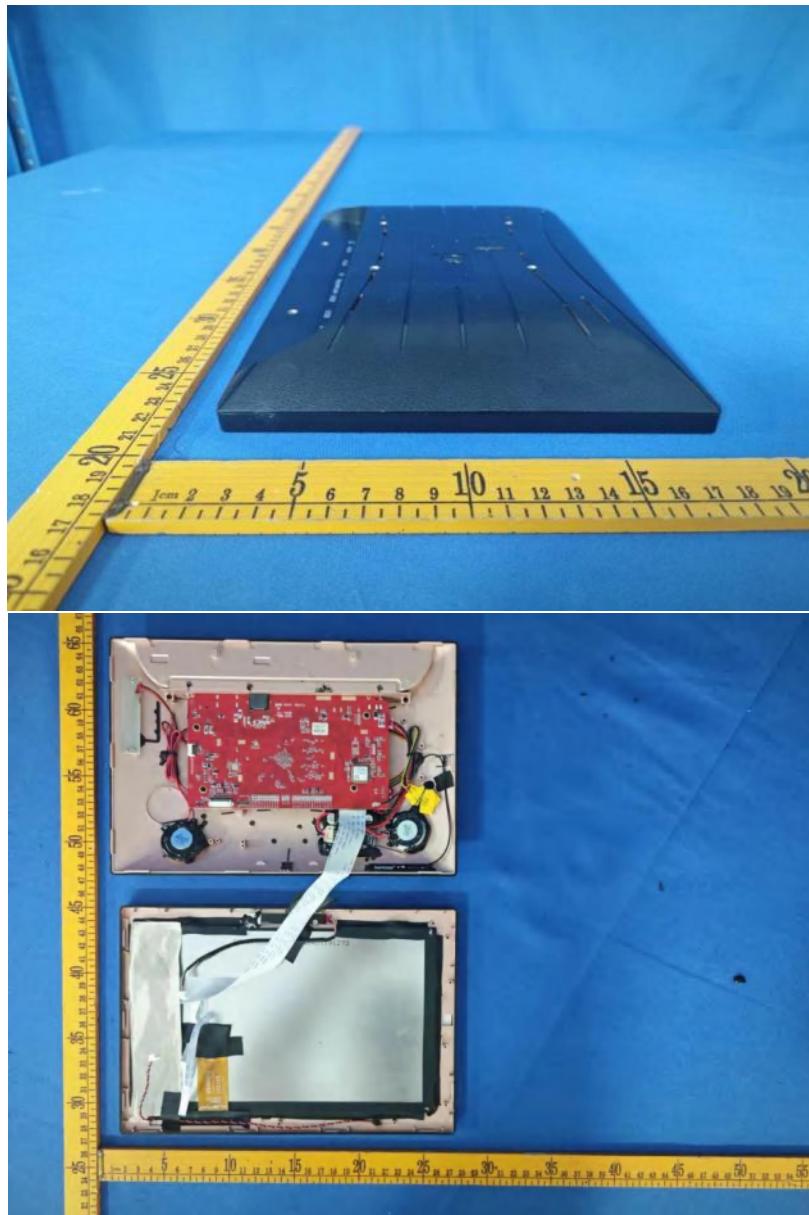


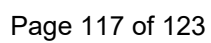
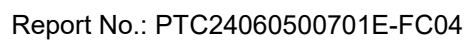




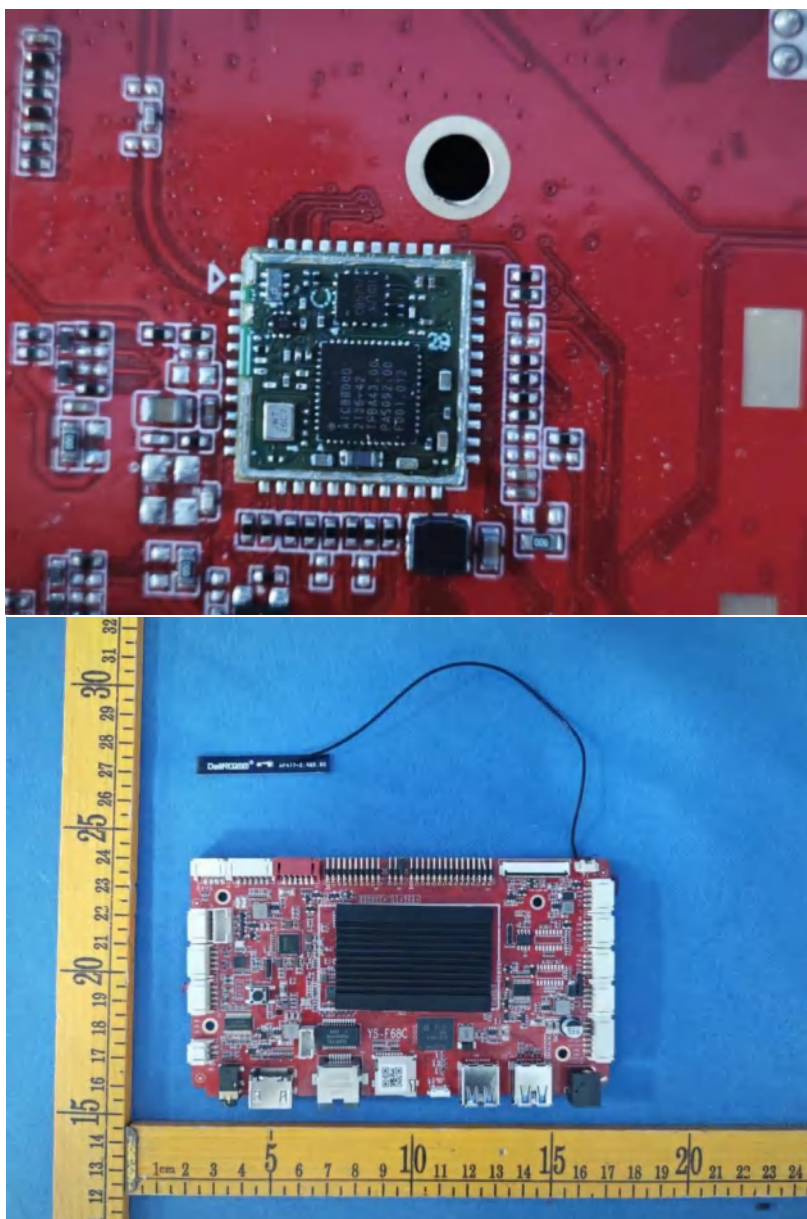




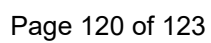
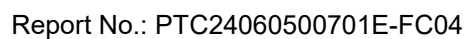


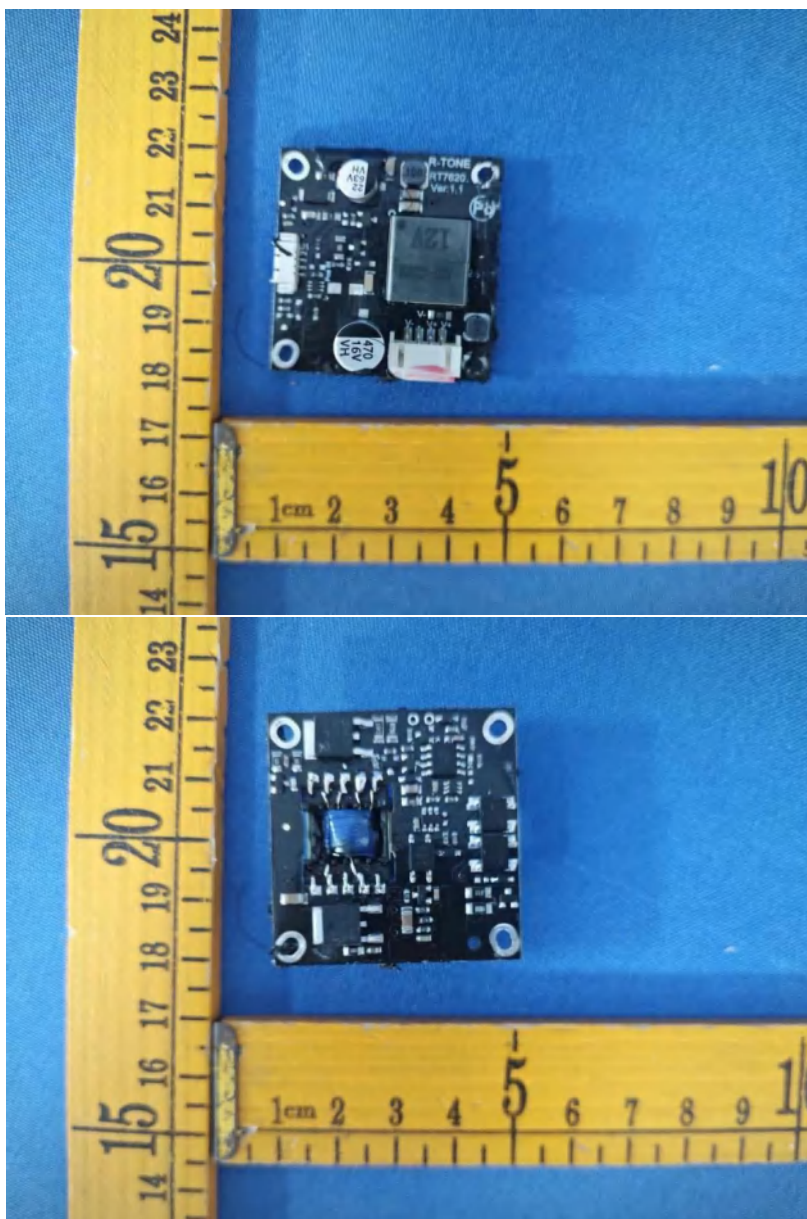


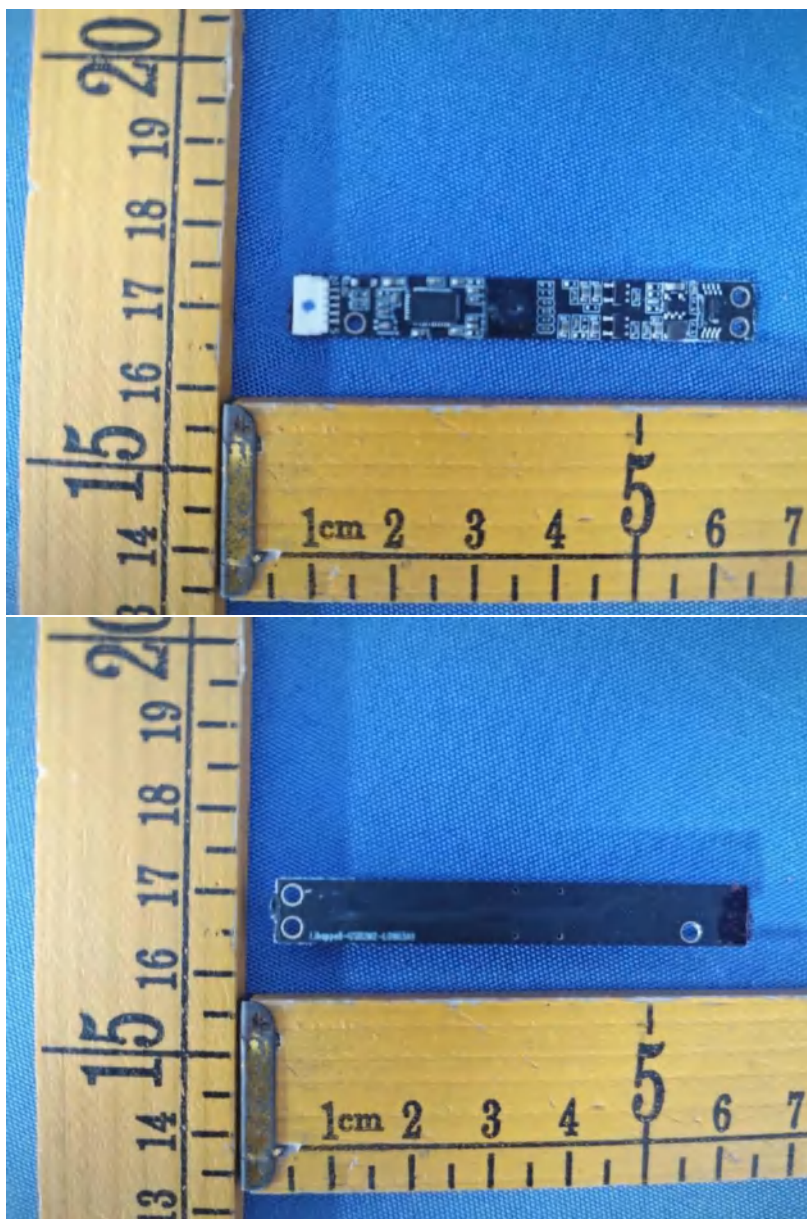




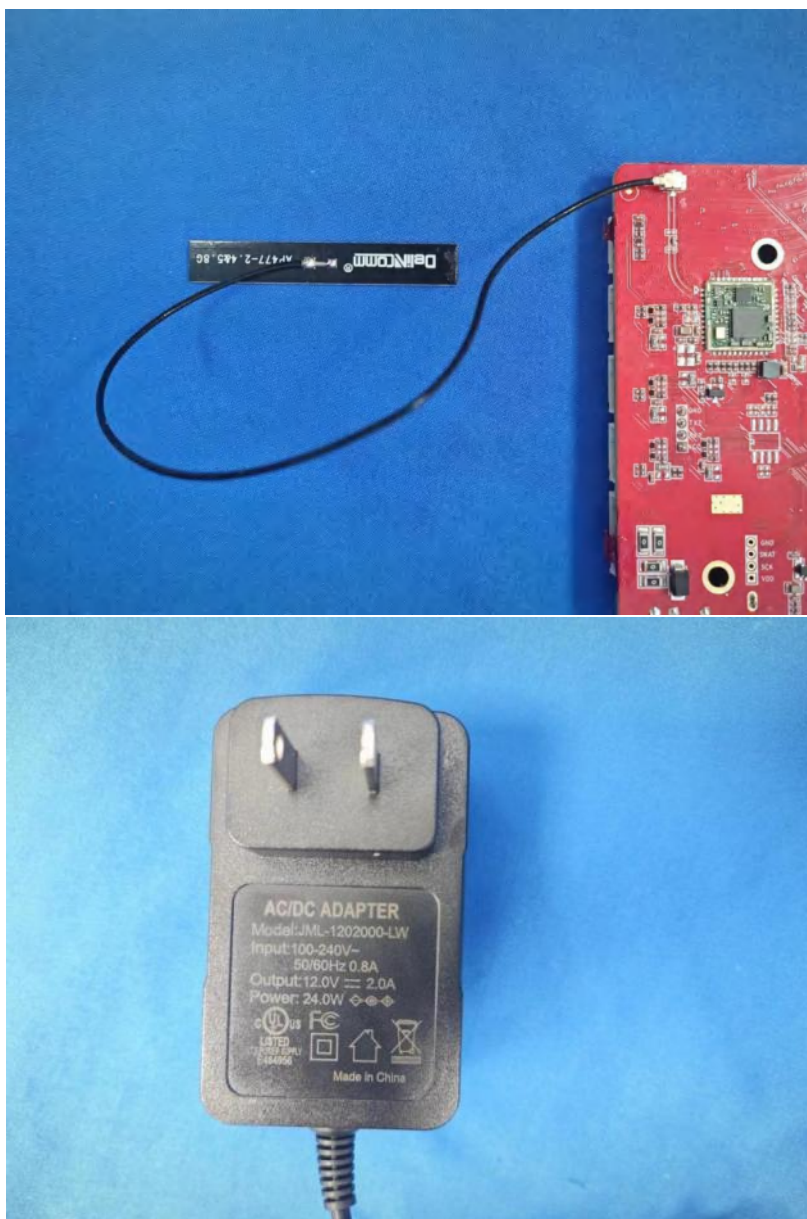












\*\*\*\*\*THE END REPORT\*\*\*\*\*