

# TEST REPORT

Report No.: BCTC2204598218-2E

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Applicant: REOLINK INNOVATION LIMITED

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Product Name: WiFi IP Camera

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Model/Type  
reference: RLC-511WA

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Tested Date: 2022-04-02 to 2022-04-18

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Issued Date: 2022-04-19

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**Shenzhen BCTC Testing Co., Ltd.**



**FCC ID:2AYHE-2204E**

Product Name: WiFi IP Camera

Trademark: 

Model/Type Ref.: RLC-511WA

Prepared For: REOLINK INNOVATION LIMITED

Address: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET  
MONG KOK KL HONG KONG

Manufacturer: REOLINK INNOVATION LIMITED

Address: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET  
MONG KOK KL HONG KONG

Factory: Shenzhen Reolink Technology Co., Ltd.

Address: 2-4th Floor, Building 2, Yuanling Industrial Park, ShangWu, Shiyan Street, Bao'an District, Shenzhen, China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2022-04-02

Sample tested Date: 2022-04-02 to 2022-04-18

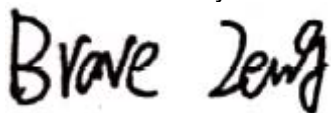
Issue Date: 2022-04-19

Report No.: BCTC2204598218-2E

Test Standards: FCC Part15 15.407  
ANSI C63.10-2013  
KDB 662911 D01 v02r01  
KDB 789033 D02 v02r01

Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

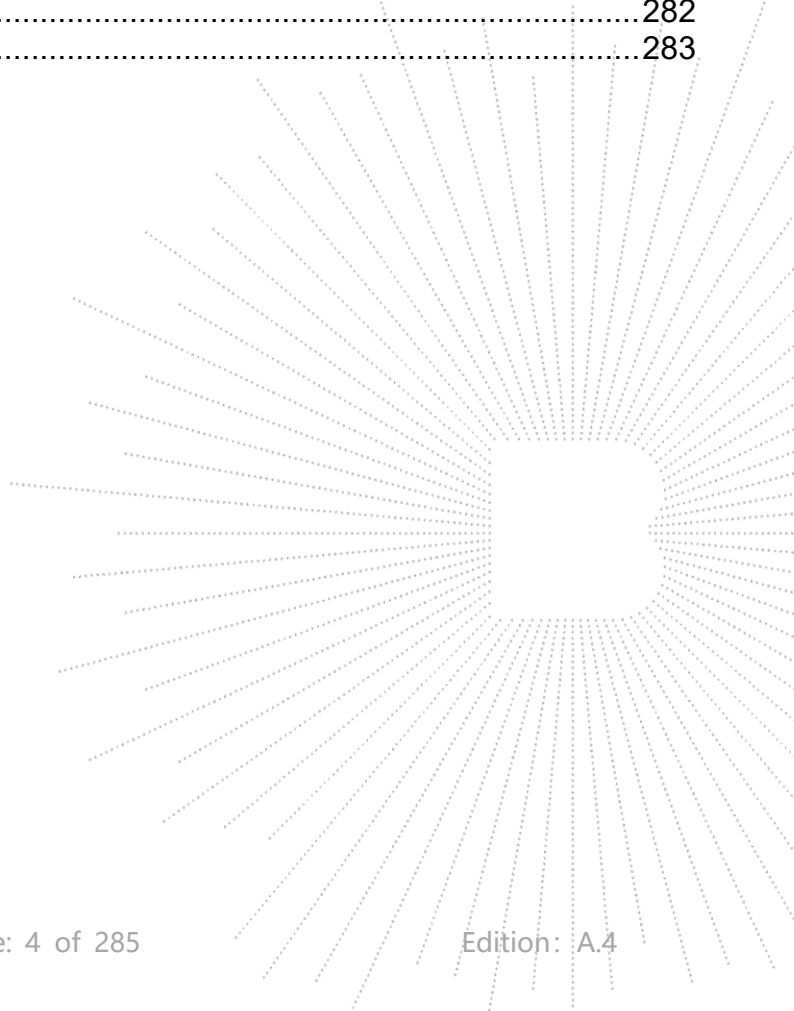
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(Note: N/A Means Not Applicable)



**1. Version**

| Report No.        | Issue Date | Description | Approved |
|-------------------|------------|-------------|----------|
| BCTC2204598218-2E | 2022-04-19 | Original    | Valid    |
|                   |            |             |          |

## 2. Test Summary

The Product has been tested according to the following specifications:

| No. | Test Parameter                          | Clause No.                                                    | Results |
|-----|-----------------------------------------|---------------------------------------------------------------|---------|
| 1   | Spurious Radiated Emissions             | 15.209(a),<br>15.407 (b)(1)<br>15.407 (b)(4)<br>15.407 (b)(6) | PASS    |
| 2   | Conducted Emission                      | 15.207                                                        | PASS    |
| 3   | 26 dB and 99% Emission Bandwidth        | 15.407 (a)(5)<br>15.1049                                      | PASS    |
| 4   | Minimum 6 dB bandwidth                  | 15.407(e)                                                     | PASS    |
| 5   | Maximum Conducted Output Power          | 15.407 (a)(1)<br>15.407 (a)(3)                                | PASS    |
| 6   | Band Edge                               | 2.1051,<br>15.407(b)(1)<br>15.407(b)(4)                       | PASS    |
| 7   | Power Spectral Density                  | 15.407 (a)(1)<br>15.407 (a)(3)                                | PASS    |
| 8   | Spurious Emissions at Antenna Terminals | 2.1051,<br>15.407(b)                                          | PASS    |
| 9   | Antenna Requirement                     | 15.203                                                        | PASS    |

### 3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| No. | Item                                               | Uncertainty |
|-----|----------------------------------------------------|-------------|
| 1   | 3m chamber Radiated spurious emission(9kHz-30MHz)  | U=3.7dB     |
| 2   | 3m chamber Radiated spurious emission(30MHz-1GHz)  | U=4.3dB     |
| 3   | 3m chamber Radiated spurious emission(1GHz-18GHz)  | U=4.5dB     |
| 4   | 3m chamber Radiated spurious emission(18GHz-40GHz) | U=3.34dB    |
| 5   | Conducted Emission(150kHz-30MHz)                   | U=3.20dB    |
| 6   | Conducted Adjacent channel power                   | U=1.38dB    |
| 7   | Conducted output power uncertainty Above 1G        | U=1.576dB   |
| 8   | Conducted output power uncertainty below 1G        | U=1.28dB    |
| 9   | humidity uncertainty                               | U=5.3%      |
| 10  | Temperature uncertainty                            | U=0.59°C    |

## 4. Product Information And Test Setup

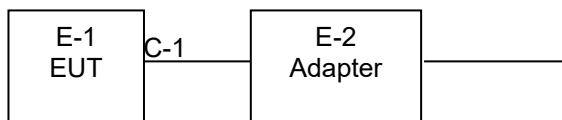
### 4.1 Product Information

|                                 |                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model/Type Ref.:                | RLC-511WA                                                                                                                                                                                                                                                                                                                         |
| Model differences:              | N/A                                                                                                                                                                                                                                                                                                                               |
| Hardware Version:               | N25C06_V100                                                                                                                                                                                                                                                                                                                       |
| Software Version:               | 710_22011361                                                                                                                                                                                                                                                                                                                      |
| IEEE 802.11 WLAN Mode Supported | 802.11a/n (20MHz channel bandwidth)<br>802.11n (40MHz channel bandwidth)<br>802.11ac(80MHz channel bandwidth)<br>5180-5240MHz for 802.11a/n/ac(HT20);<br>5190-5230MHz for 802.11n/ac(HT40);<br>5210MHz for 802.11 ac80;<br>5260-5320MHz for 802.11a/n/ac(HT20);<br>5270-5310MHz for 802.11n/ac(HT40);<br>5290MHz for 802.11 ac80; |
| Operation Frequency:            | 5500-5700MHz for 802.11a/n/ac(HT20);<br>5410-5670MHz for 802.11n/ac(HT40);<br>5530-5610MHz for 802.11 ac80;<br>5745-5825 MHz for 802.11a/n/ac(HT20);<br>5755-5795 MHz for 802.11n/ac(HT40);<br>5775MHz for 802.11 ac80                                                                                                            |
| Data Rate                       | 802.11a: 6,9,12,18,24,36,48,54Mbps;<br>802.11n(HT20/HT40):MCS0-MCS15;<br>802.11ac(VHT20): NSS1, MCS0-MCS8<br>802.11ac(VHT40/VHT80):NSS1, MCS0-MCS9                                                                                                                                                                                |
| Type of Modulation:             | OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac                                                                                                                                                                                                                                                                           |
| Antenna installation:           | External antenna*2                                                                                                                                                                                                                                                                                                                |
| Antenna Gain:                   | 5.1G: Antenna A & B: 2.89 dBi<br>5.3G: Antenna A & B: 2.89 dBi<br>5.6G: Antenna A & B: 2.89 dBi<br>5.8G: Antenna A & B: 2.89 dBi                                                                                                                                                                                                  |
| Ratings:                        | AC 120V/60Hz                                                                                                                                                                                                                                                                                                                      |
| Adapter:                        | Model: DCT12W120100US-B0<br>Input:100-240V~50/60Hz 0.3A max<br>Output: DC 12.0V 1.0A 12.0W                                                                                                                                                                                                                                        |

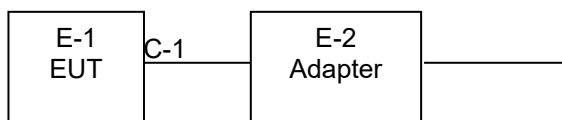
## 4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



## 4.3 Support Equipment

| No. | Device Type    | Brand       | Model             | Series No. | Note      |
|-----|----------------|-------------|-------------------|------------|-----------|
| E-1 | WiFi IP Camera | Ref. the P2 | RLC-511WA         | N/A        | EUT       |
| E-2 | Adapter        | N/A         | DCT12W120100US-B0 | N/A        | Auxiliary |

| Item | Shielded Type | Ferrite Core | Length | Note                |
|------|---------------|--------------|--------|---------------------|
| C-1  | N/A           | N/A          | 3M     | DC cable unshielded |

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

#### 4.4 Channel List

| <b>(U-NII-1) 5180MHz-5240MHz</b>  |         |                 |         |                 |
|-----------------------------------|---------|-----------------|---------|-----------------|
| Bandwidth                         | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20MHz                             | 36      | 5180            | 40      | 5200            |
|                                   | 44      | 5220            | 48      | 5240            |
| 40MHz                             | 38      | 5190            | 46      | 5230            |
| 80MHz                             | 42      | 5210            |         |                 |
| <b>(U-NII-2A) 5260MHz-5320MHz</b> |         |                 |         |                 |
| Bandwidth                         | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20MHz                             | 52      | 5260            | 56      | 5280            |
|                                   | 60      | 5300            | 64      | 5320            |
| 40MHz                             | 54      | 5270            | 62      | 5310            |
| 80MHz                             | 58      | 5290            |         |                 |
| <b>(U-NII-2C) 5500MHz-5700MHz</b> |         |                 |         |                 |
| Bandwidth                         | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20MHz                             | 100     | 5500            | 105     | 5520            |
|                                   | 108     | 5540            | 112     | 5560            |
|                                   | 116     | 5580            | 120     | 5600            |
|                                   | 124     | 5620            | 128     | 5640            |
|                                   | 132     | 5660            | 136     | 5680            |
|                                   | 140     | 5700            |         |                 |
| 40MHz                             | 102     | 5510            | 110     | 5550            |
|                                   | 118     | 5590            | 126     | 5630            |
|                                   | 134     | 5670            | 142     | 5710            |
| 80MHz                             | 106     | 5530            | 122     | 5610            |
|                                   | 138     | 5690            |         |                 |
| <b>(U-NII-3) 5745MHz-5825MHz</b>  |         |                 |         |                 |
| Bandwidth                         | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20MHz                             | 149     | 5745            | 153     | 5765            |
|                                   | 157     | 5785            | 161     | 5805            |
|                                   | 165     | 5825            |         |                 |
| 40MHz                             | 151     | 5775            | 159     | 5795            |
| 80MHz                             | 155     | 5775            |         |                 |

#### 4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description                                                                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 1       | 802.11a / n/ ac 20 CH36/ CH40/ CH 48<br>802.11a / n/ ac 20 CH52/ CH56/ CH 64<br>802.11a / n/ ac 20 CH100/ CH120/ CH 140<br>802.11a /n/ ac 20 CH149/ CH157/ CH 165 |
| Mode 2       | 802.11n/ ac40 CH38/ CH 46<br>802.11n/ ac40 CH54/ CH 62<br>802.11n/ ac40 CH102/ CH 118/CH134<br>802.11n/ ac40 CH 151 / CH 159                                      |
| Mode 3       | 802.11 ac80 CH 42/ CH 58/ CH 106/ CH 122/ CH 155                                                                                                                  |
| Mode 4       | Link Mode                                                                                                                                                         |

| Conducted Emission |             |
|--------------------|-------------|
| Final Test Mode    | Description |
| Mode 4             | Link Mode   |

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

#### 4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

| Test software Version | CMD |     |     |
|-----------------------|-----|-----|-----|
| Parameters            | DEF | DEF | DEF |

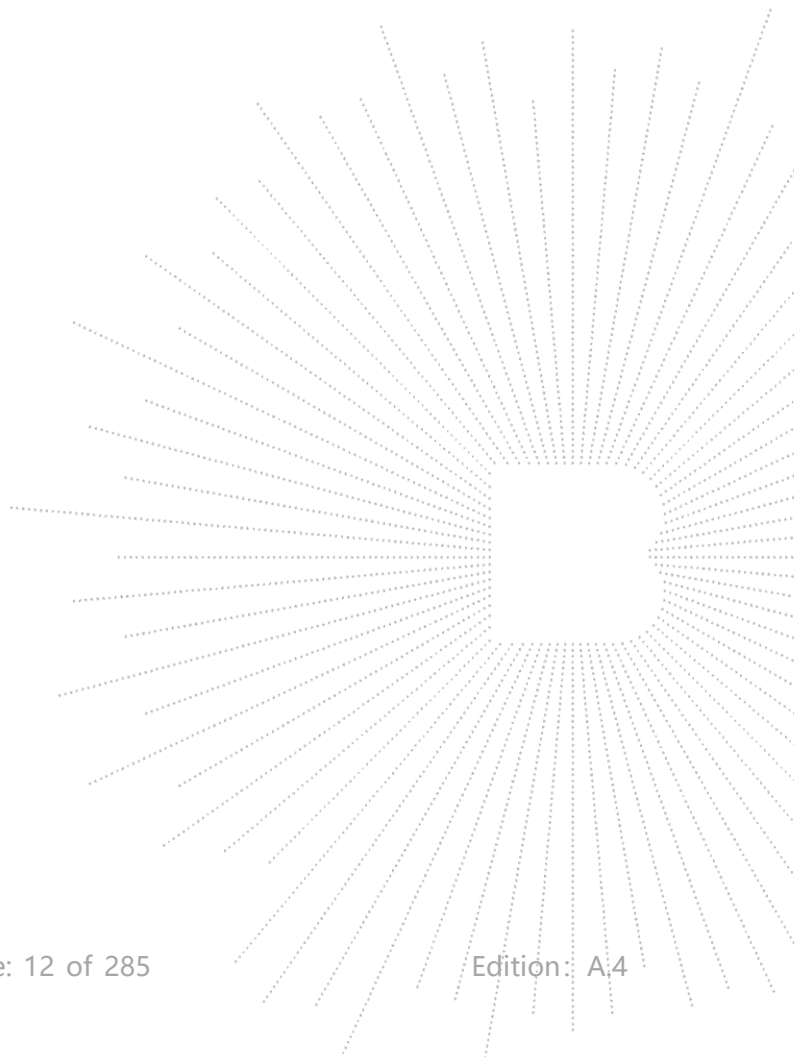
#### 4.7 Antenna

5.1G&5.3G&5.6G&5.8G

| Ant. | Brand | Model Name | Antenna Type     | Gain (dBi) | NOTE |
|------|-------|------------|------------------|------------|------|
| A    | N/A   | N/A        | External antenna | 2.89       | N/A  |
| B    | N/A   | N/A        | External antenna | 2.89       | N/A  |

EUT has two External antennas with Max gain GANT 2.89dBi on every antenna, CDD device with one spatial streams, also can operat with one spatial streams according to KDB662911 D01 v02r01, Directional gain= GANT + Array Gain, where Array Gain is as follows.

- 1)For power spectral density(PSD) measurements,  
 $\text{Array Gain} = 10\log(\text{NANT}/\text{NSS})\text{dB} = 10\log(2/1) = 3.01 \text{ dBi}$ ,  
 So the directional gain for PSD is 5.90 dBi
- 2)For power measurements,  
 The Array gain=0 for  $\text{NANT} \leq 4$ ,  
 So the directional gain for Power measurements is 2.89dBi



## 5. Test Facility And Test Instrument Used

### 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.  
FCC Test Firm Registration Number: 712850  
IC Registered No.: 23583

### 5.2 Test Instrument Used

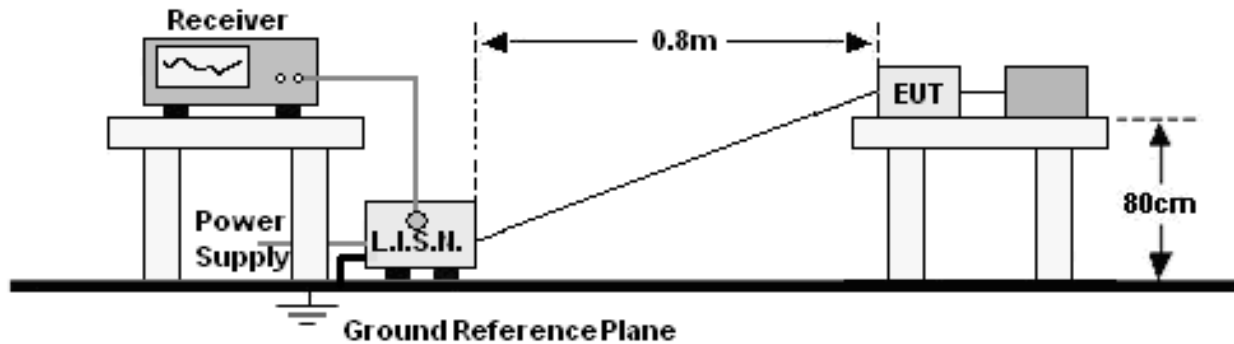
| Conducted emissions Test |              |                 |                |              |              |
|--------------------------|--------------|-----------------|----------------|--------------|--------------|
| Equipment                | Manufacturer | Model#          | Serial#        | Last Cal.    | Next Cal.    |
| Receiver                 | R&S          | ESR3            | 102075         | May 28, 2021 | May 27, 2022 |
| LISN                     | R&S          | ENV216          | 101375         | May 28, 2021 | May 27, 2022 |
| Software                 | Frad         | EZ-EMC          | EMC-CON<br>3A1 | \            | \            |
| Attenuator               | \            | 10dB<br>DC-6GHz | 1650           | May 28, 2021 | May 27, 2022 |

| RF Conducted Test            |              |        |            |              |              |
|------------------------------|--------------|--------|------------|--------------|--------------|
| Equipment                    | Manufacturer | Model# | Serial#    | Last Cal.    | Next Cal.    |
| Power Metter                 | Keysight     | E4419  | \          | May 28, 2021 | May 27, 2022 |
| Power Sensor (AV)            | Keysight     | E9300A | \          | May 28, 2021 | May 27, 2022 |
| Signal Analyzer20kHz-26.5GHz | Keysight     | N9020A | MY49100060 | May 28, 2021 | May 27, 2022 |
| Spectrum Analyzer9kHz-40GHz  | R&S          | FSP40  | \          | May 28, 2021 | May 27, 2022 |

| Radiated emissions Test (966 chamber) |              |                      |                   |               |               |
|---------------------------------------|--------------|----------------------|-------------------|---------------|---------------|
| Equipment                             | Manufacturer | Model#               | Serial#           | Last Cal.     | Next Cal.     |
| 966 chamber                           | ChengYu      | 966 Room             | 966               | Jun. 06. 2020 | Jun. 05, 2023 |
| Receiver                              | R&S          | ESR3                 | 102075            | May 28, 2021  | May 27, 2022  |
| Receiver                              | R&S          | ESRP                 | 101154            | May 28, 2021  | May 27, 2022  |
| Amplifier                             | SKET         | LAPA_01G18<br>G-45dB | \                 | May 28, 2021  | May 27, 2022  |
| Amplifier                             | Schwarzbeck  | BBV9744              | 9744-0037         | May 28, 2021  | May 27, 2022  |
| TRILOG<br>Broadband<br>Antenna        | Schwarzbeck  | VULB9163             | 942               | Jun. 01, 2021 | May 31, 2022  |
| Horn Antenna                          | Schwarzbeck  | BBHA9120D            | 1541              | Jun. 02, 2021 | Jun. 01, 2022 |
| Horn<br>Antenn(18GHz<br>-40GHz)       | Schwarzbeck  | BBHA9170             | 00822             | Jun. 15, 2021 | Jun. 14, 2022 |
| Amplifier(18G<br>Hz-40GHz)            | MITEQ        | TTA1840-35-<br>HG    | 2034381           | May 28, 2021  | May 27, 2022  |
| Loop<br>Antenna(9kHz<br>-30MHz)       | Schwarzbeck  | FMZB1519B            | 00014             | Jun. 02, 2021 | Jun. 01, 2022 |
| RF<br>cables1(9kHz-<br>30MHz)         | Huber+Suhnar | 9kHz-30MHz           | B1702988-00<br>08 | May 28, 2021  | May 27, 2022  |
| RF<br>cables2(30MH<br>z-1GHz)         | Huber+Suhnar | 30MHz-1GH<br>z       | 1486150           | May 28, 2021  | May 27, 2022  |
| RF<br>cables3(1GHz-<br>40GHz)         | Huber+Suhnar | 1GHz-40GHz           | 1607106           | May 28, 2021  | May 27, 2022  |
| Power Metter                          | Keysight     | E4419                | \                 | May 28, 2021  | May 27, 2022  |
| Power Sensor<br>(AV)                  | Keysight     | E9300A               | \                 | May 28, 2021  | May 27, 2022  |
| Signal<br>Analyzer20kHz<br>-26.5GHz   | Keysight     | N9020A               | MY49100060        | May 28, 2021  | May 27, 2022  |
| Spectrum<br>Analyzer9kHz-<br>40GHz    | R&S          | FSP40                | \                 | May 28, 2021  | May 27, 2022  |
| Software                              | Frad         | EZ-EMC               | FA-03A2 RE        | \             | \             |

## 6. Conducted Emissions

### 6.1 Block Diagram Of Test Setup



### 6.2 Limit

| Frequency (MHz) | Limit (dBuV) |           |
|-----------------|--------------|-----------|
|                 | Quas-peak    | Average   |
| 0.15 -0.5       | 66 - 56 *    | 56 - 46 * |
| 0.50 -5.0       | 56.00        | 46.00     |
| 5.0 -30.0       | 60.00        | 50.00     |

Notes:

- \*Decreasing linearly with logarithm of frequency.
- The lower limit shall apply at the transition frequencies.

### 6.3 Test Procedure

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

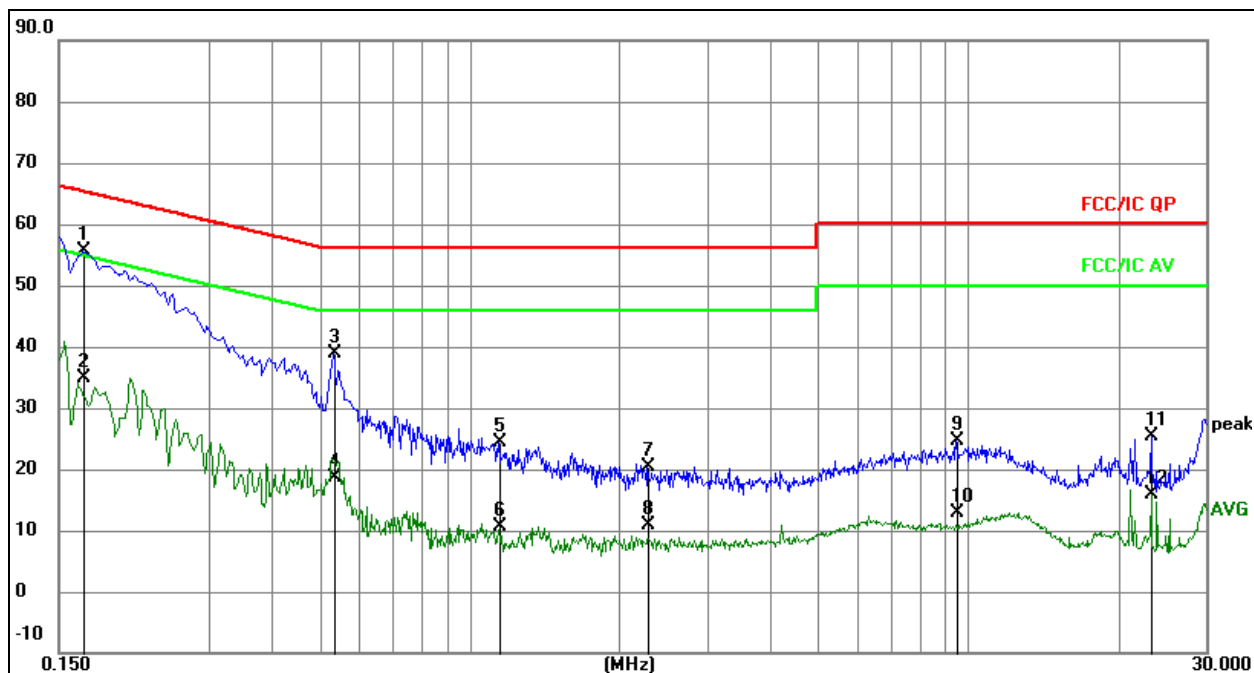
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

### 6.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

## 6.5 Test Result

|               |             |                    |        |
|---------------|-------------|--------------------|--------|
| Temperature:  | 26 °C       | Relative Humidity: | 54%    |
| Pressure:     | 101kPa      | Phase:             | L      |
| Test Voltage: | AC120V/60Hz | Test Mode:         | Mode 4 |

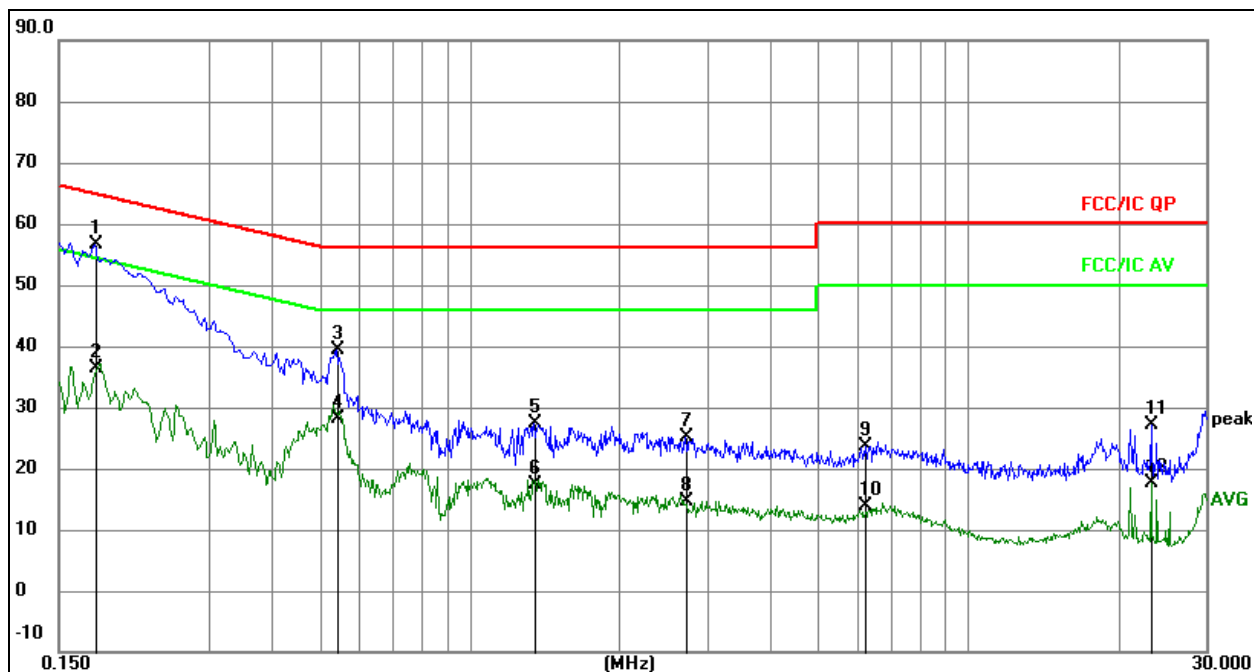


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz     |               | dB             | dBuV        | dBuV  | dB     |          |
| 1   | *   | 0.1680  | 35.92         | 19.60          | 55.52       | 65.06 | -9.54  | QP       |
| 2   |     | 0.1680  | 15.33         | 19.60          | 34.93       | 55.06 | -20.13 | AVG      |
| 3   |     | 0.5325  | 19.24         | 19.61          | 38.85       | 56.00 | -17.15 | QP       |
| 4   |     | 0.5325  | -1.08         | 19.61          | 18.53       | 46.00 | -27.47 | AVG      |
| 5   |     | 1.1445  | 4.69          | 19.62          | 24.31       | 56.00 | -31.69 | QP       |
| 6   |     | 1.1445  | -9.01         | 19.62          | 10.61       | 46.00 | -35.39 | AVG      |
| 7   |     | 2.2740  | 0.71          | 19.63          | 20.34       | 56.00 | -35.66 | QP       |
| 8   |     | 2.2740  | -8.77         | 19.63          | 10.86       | 46.00 | -35.14 | AVG      |
| 9   |     | 9.4920  | 4.81          | 19.78          | 24.59       | 60.00 | -35.41 | QP       |
| 10  |     | 9.4920  | -6.85         | 19.78          | 12.93       | 50.00 | -37.07 | AVG      |
| 11  |     | 23.3564 | 5.66          | 19.73          | 25.39       | 60.00 | -34.61 | QP       |
| 12  |     | 23.3564 | -3.94         | 19.73          | 15.79       | 50.00 | -34.21 | AVG      |

|               |             |                    |        |
|---------------|-------------|--------------------|--------|
| Temperature:  | 26 °C       | Relative Humidity: | 54%    |
| Pressure:     | 101kPa      | Phase:             | N      |
| Test Voltage: | AC120V/60Hz | Test Mode:         | Mode 4 |



Remark:

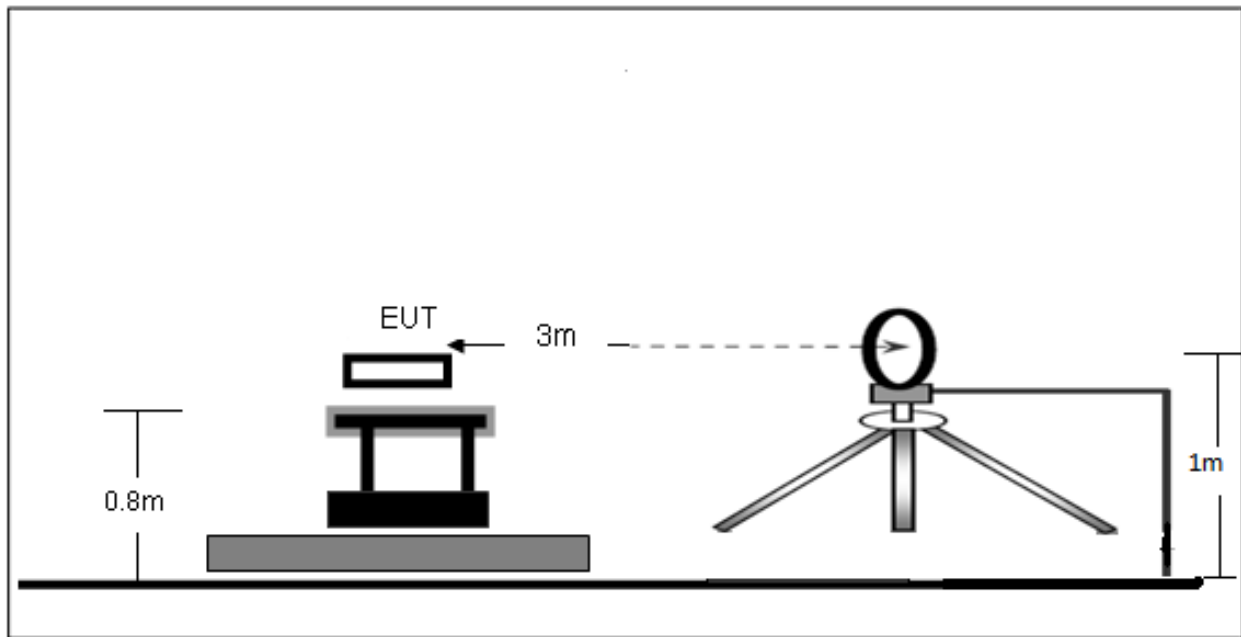
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dB | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   | *   | 0.1768       | 36.92                  | 19.60                   | 56.52                    | 64.63         | -8.11      | QP       |
| 2   |     | 0.1768       | 16.88                  | 19.60                   | 36.48                    | 54.63         | -18.15     | AVG      |
| 3   |     | 0.5407       | 19.68                  | 19.61                   | 39.29                    | 56.00         | -16.71     | QP       |
| 4   |     | 0.5407       | 8.53                   | 19.61                   | 28.14                    | 46.00         | -17.86     | AVG      |
| 5   |     | 1.3450       | 7.83                   | 19.62                   | 27.45                    | 56.00         | -28.55     | QP       |
| 6   |     | 1.3450       | -2.17                  | 19.62                   | 17.45                    | 46.00         | -28.55     | AVG      |
| 7   |     | 2.7068       | 5.43                   | 19.64                   | 25.07                    | 56.00         | -30.93     | QP       |
| 8   |     | 2.7068       | -4.95                  | 19.64                   | 14.69                    | 46.00         | -31.31     | AVG      |
| 9   |     | 6.2189       | 3.99                   | 19.72                   | 23.71                    | 60.00         | -36.29     | QP       |
| 10  |     | 6.2189       | -5.91                  | 19.72                   | 13.81                    | 50.00         | -36.19     | AVG      |
| 11  |     | 23.2633      | 7.39                   | 19.73                   | 27.12                    | 60.00         | -32.88     | QP       |
| 12  |     | 23.2633      | -2.05                  | 19.73                   | 17.68                    | 50.00         | -32.32     | AVG      |

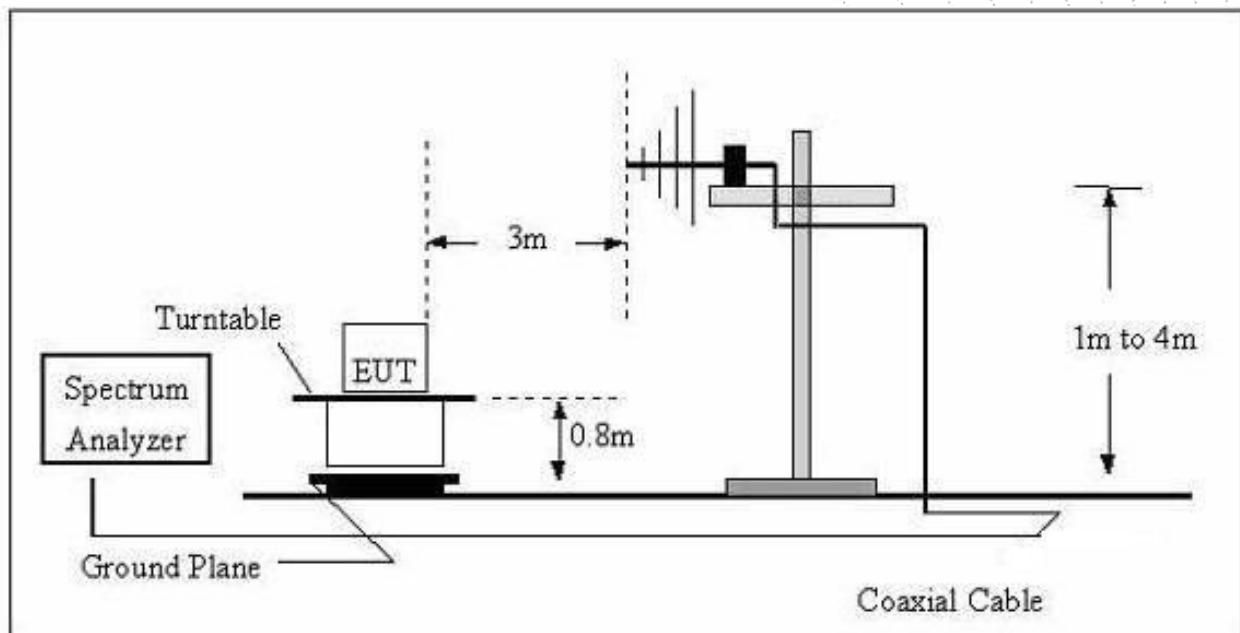
## 7. Radiated Emissions

### 7.1 Block Diagram Of Test Setup

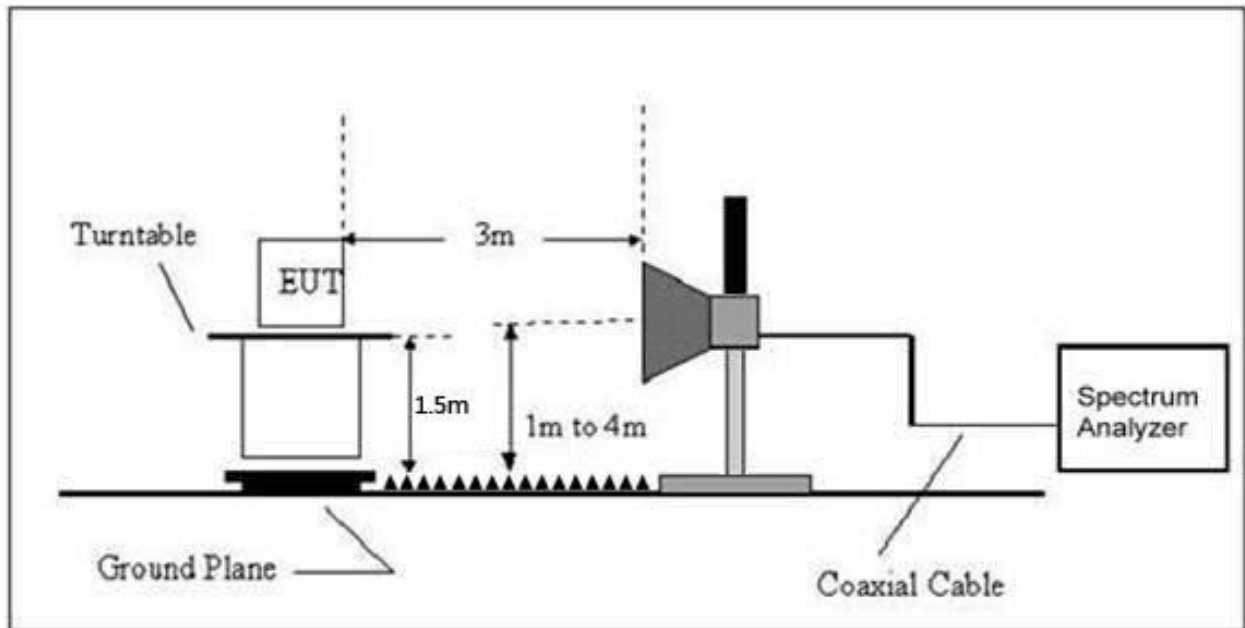
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



## 7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequency<br>(MHz) | Field Strength<br>uV/m | Distance<br>(m) | Field Strength Limit at 3m Distance |                                    |
|--------------------|------------------------|-----------------|-------------------------------------|------------------------------------|
|                    |                        |                 | 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                                 | $20\log(500)$                      |

### Limits Of Radiated Emission Measurement (Above 1000MHz)

| Frequency (MHz) | Limit (dBuV/m) (at 3M) |         |
|-----------------|------------------------|---------|
|                 | Peak                   | Average |
| Above 1000      | 74                     | 54      |

#### Notes:

- (1)The limit for radiated test was performed according to FCC PART 15C.
- (2)The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### 7.3 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.

It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

| Spectrum Parameter                    | Setting                                          |
|---------------------------------------|--------------------------------------------------|
| Attenuation                           | Auto                                             |
| Start Frequency                       | 1000 MHz                                         |
| Stop Frequency                        | 10th carrier harmonic                            |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000           | QP       | 120 kHz              | 300 kHz         |
| Above 1000           | Peak     | 1 MHz                | 1 MHz           |
|                      | Average  | 1 MHz                | 10 Hz           |

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where  $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$ . , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

## 7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

## 7.5 Test Result

Below 30MHz

|              |         |                    |             |
|--------------|---------|--------------------|-------------|
| Temperature: | 26°C    | Relative Humidity: | 24%         |
| Pressure:    | 101 kPa | Test Voltage:      | AC120V/60Hz |
| Test Mode:   | Mode 4  | Polarization:      | --          |

| Freq.<br>(MHz) | Reading<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | State<br>P/F |
|----------------|---------------------|-------------------|----------------|--------------|
| --             | --                  | --                | --             | PASS         |
| --             | --                  | --                | --             | PASS         |

Note:

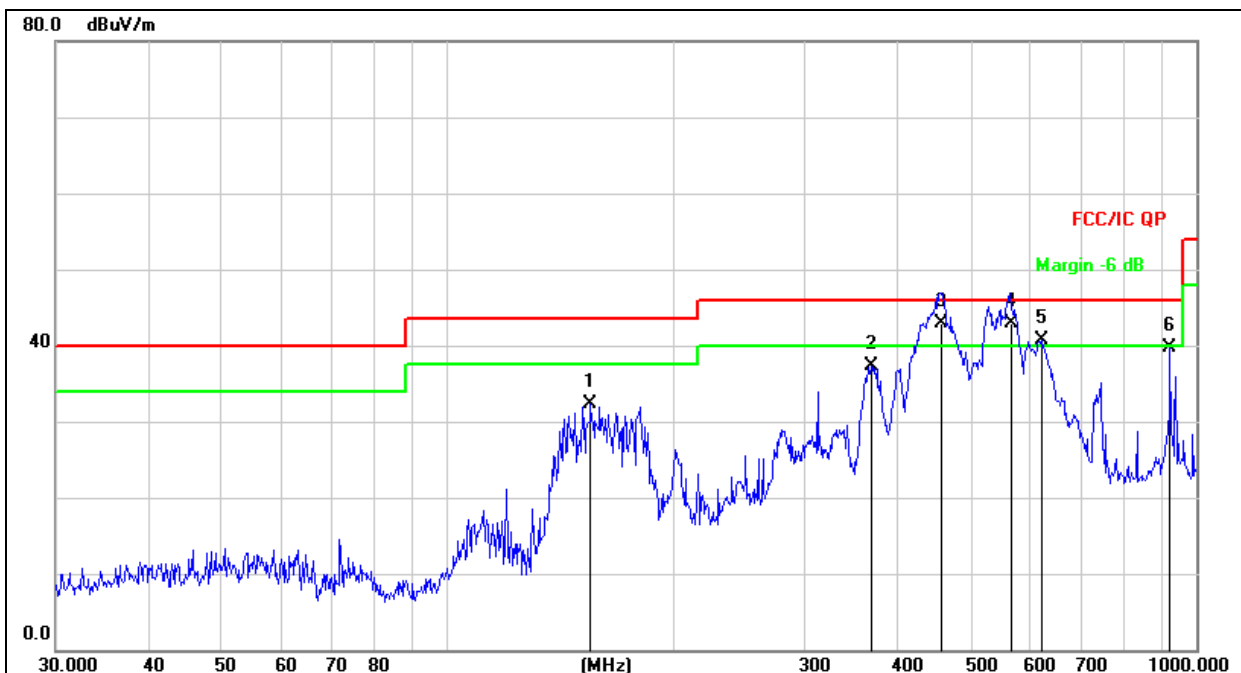
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

|              |         |                    |             |
|--------------|---------|--------------------|-------------|
| Temperature: | 26°C    | Relative Humidity: | 54%         |
| Pressure:    | 101 kPa | Test Voltage :     | AC120V/60Hz |
| Test Mode :  | Mode 4  | Polarization :     | Horizontal  |

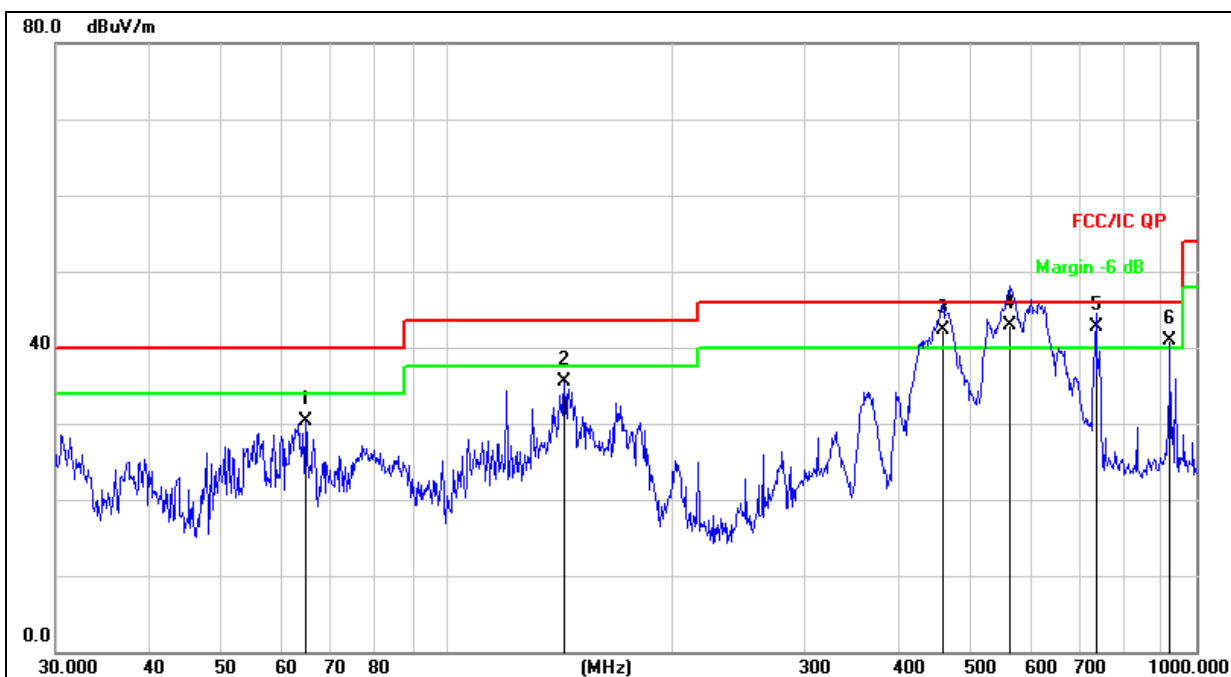


Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over= Measurement-Limit

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB     | Detector |
| 1   |     | 155.3644 | 51.52         | -19.16         | 32.36       | 43.50 | -11.14 | QP       |
| 2   |     | 368.1116 | 49.11         | -11.82         | 37.29       | 46.00 | -8.71  | QP       |
| 3   | *   | 455.6658 | 52.80         | -9.85          | 42.95       | 46.00 | -3.05  | QP       |
| 4   | !   | 566.6984 | 50.10         | -7.29          | 42.81       | 46.00 | -3.19  | QP       |
| 5   | !   | 620.7096 | 47.29         | -6.64          | 40.65       | 46.00 | -5.35  | QP       |
| 6   |     | 922.5157 | 41.01         | -1.32          | 39.69       | 46.00 | -6.31  | QP       |

|              |         |                    |             |
|--------------|---------|--------------------|-------------|
| Temperature: | 26℃     | Relative Humidity: | 54%         |
| Pressure:    | 101 kPa | Test Voltage :     | AC120V/60Hz |
| Test Mode :  | Mode 4  | Polarization :     | Vertical    |



Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over= Measurement-Limit

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 64.6594      | 47.20                    | -16.97                  | 30.23                      | 40.00         | -9.77      | QP       |
| 2   |     | 143.3261     | 54.48                    | -19.07                  | 35.41                      | 43.50         | -8.09      | QP       |
| 3   | !   | 458.0554     | 52.11                    | -9.80                   | 42.31                      | 46.00         | -3.69      | QP       |
| 4   | *   | 562.3824     | 50.20                    | -7.39                   | 42.81                      | 46.00         | -3.19      | QP       |
| 5   | !   | 734.4913     | 47.25                    | -4.59                   | 42.66                      | 46.00         | -3.34      | QP       |
| 6   | !   | 922.5157     | 42.15                    | -1.32                   | 40.83                      | 46.00         | -5.17      | QP       |

Between 1GHz – 40GHz

|             |                    |
|-------------|--------------------|
| Test Mode : | TX(5.1G) - 802.11a |
|-------------|--------------------|

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/<br>m) | Margin<br>(dB) | Detector<br>Type |
|-------------------------------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|------------------------|----------------|------------------|
| <b>Low Channel (5180 MHz)-Above 1G</b>    |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4434.139           | 60.94                      | 5.94                  | 35.40                     | 44.00                    | 58.28                         | 68.2                   | -9.92          | PK               |
| V                                         | 4434.139           | 43.24                      | 5.94                  | 35.40                     | 44.00                    | 40.58                         | 54                     | -13.42         | AV               |
| V                                         | 10360.149          | 60.95                      | 8.46                  | 39.75                     | 44.50                    | 64.66                         | 68.2                   | -3.54          | PK               |
| V                                         | 10360.149          | 43.82                      | 8.46                  | 39.75                     | 44.50                    | 47.53                         | 54                     | -6.47          | AV               |
| V                                         | 15540.187          | 62.25                      | 10.12                 | 38.80                     | 44.10                    | 67.07                         | 74                     | -6.93          | PK               |
| V                                         | 15540.187          | 43.83                      | 10.12                 | 38.80                     | 42.70                    | 50.05                         | 54                     | -3.95          | AV               |
| H                                         | 4434.013           | 63.99                      | 5.94                  | 35.18                     | 44.00                    | 61.11                         | 68.2                   | -7.09          | PK               |
| H                                         | 4434.013           | 43.47                      | 5.94                  | 35.18                     | 44.00                    | 40.59                         | 54                     | -13.41         | AV               |
| H                                         | 10360.071          | 54.77                      | 8.46                  | 38.71                     | 44.50                    | 57.44                         | 68.2                   | -10.76         | PK               |
| H                                         | 10360.071          | 40.45                      | 8.46                  | 38.71                     | 44.50                    | 43.12                         | 54                     | -10.88         | AV               |
| H                                         | 15540.126          | 54.91                      | 10.12                 | 38.38                     | 44.10                    | 59.31                         | 74                     | -14.69         | PK               |
| H                                         | 15540.126          | 41.53                      | 10.12                 | 38.38                     | 44.10                    | 45.93                         | 54                     | -8.07          | AV               |
| <b>middle Channel (5200 MHz)-Above 1G</b> |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4592.163           | 60.12                      | 6.48                  | 36.35                     | 44.05                    | 58.90                         | 74                     | -15.10         | PK               |
| V                                         | 4592.163           | 43.81                      | 6.48                  | 36.35                     | 44.05                    | 42.59                         | 54                     | -11.41         | AV               |
| V                                         | 10400.019          | 62.08                      | 8.47                  | 37.88                     | 44.51                    | 63.92                         | 68.2                   | -4.28          | PK               |
| V                                         | 10400.019          | 43.46                      | 8.47                  | 37.88                     | 44.51                    | 45.30                         | 54                     | -8.70          | AV               |
| V                                         | 15600.018          | 61.38                      | 10.12                 | 38.80                     | 44.10                    | 66.20                         | 74                     | -7.80          | PK               |
| V                                         | 15600.018          | 43.26                      | 10.12                 | 38.80                     | 42.70                    | 49.48                         | 54                     | -4.52          | AV               |
| H                                         | 4592.039           | 60.19                      | 6.48                  | 36.37                     | 44.05                    | 58.99                         | 74                     | -15.01         | PK               |
| H                                         | 4592.039           | 43.31                      | 6.48                  | 36.37                     | 44.05                    | 42.11                         | 54                     | -11.89         | AV               |
| H                                         | 10400.169          | 51.18                      | 8.47                  | 38.64                     | 44.50                    | 53.79                         | 68.2                   | -14.41         | PK               |
| H                                         | 10400.169          | 44.38                      | 8.47                  | 38.64                     | 44.50                    | 46.99                         | 54                     | -7.01          | AV               |
| H                                         | 15600.043          | 53.57                      | 10.12                 | 38.38                     | 44.10                    | 57.97                         | 74                     | -16.03         | PK               |
| H                                         | 15600.043          | 40.22                      | 10.12                 | 38.38                     | 44.10                    | 44.62                         | 54                     | -9.38          | AV               |
| <b>High Channel (5240 MHz)-Above 1G</b>   |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4739.155           | 62.05                      | 7.10                  | 37.24                     | 43.50                    | 62.89                         | 74                     | -11.11         | PK               |
| V                                         | 4739.155           | 43.23                      | 7.10                  | 37.24                     | 43.50                    | 44.07                         | 54                     | -9.93          | AV               |
| V                                         | 10480.090          | 62.93                      | 8.46                  | 37.68                     | 44.50                    | 64.57                         | 68.2                   | -3.63          | PK               |
| V                                         | 10480.090          | 43.23                      | 8.46                  | 37.68                     | 44.50                    | 44.87                         | 54                     | -9.13          | AV               |
| V                                         | 15720.136          | 64.61                      | 10.12                 | 38.80                     | 44.10                    | 69.43                         | 74                     | -4.57          | PK               |
| V                                         | 15720.136          | 43.21                      | 10.12                 | 38.80                     | 42.70                    | 49.43                         | 54                     | -4.57          | AV               |
| H                                         | 4739.009           | 62.71                      | 7.10                  | 37.24                     | 43.50                    | 63.55                         | 74                     | -10.45         | PK               |
| H                                         | 4739.009           | 43.86                      | 7.10                  | 37.24                     | 43.50                    | 44.70                         | 54                     | -9.30          | AV               |
| H                                         | 10480.173          | 53.30                      | 8.46                  | 38.57                     | 44.50                    | 55.83                         | 68.2                   | -12.37         | PK               |
| H                                         | 10480.173          | 43.84                      | 8.46                  | 38.57                     | 44.50                    | 46.37                         | 54                     | -7.63          | AV               |
| H                                         | 15720.041          | 52.97                      | 10.12                 | 38.38                     | 44.10                    | 57.37                         | 74                     | -16.63         | PK               |
| H                                         | 15720.041          | 42.80                      | 10.12                 | 38.38                     | 44.10                    | 47.20                         | 54                     | -6.80          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

The worst case is Antenna A.

|             |                         |
|-------------|-------------------------|
| Test Mode : | TX(5.1G) - 802.11n-HT20 |
|-------------|-------------------------|

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|-------------------------------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|--------------------|----------------|------------------|
| <b>Low Channel (5180 MHz)-Above 1G</b>    |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                         | 4434.083           | 62.09                      | 5.94                  | 35.40                     | 44.00                    | 59.43                         | 68.2               | -8.77          | PK               |
| V                                         | 4434.083           | 43.96                      | 5.94                  | 35.40                     | 44.00                    | 41.30                         | 54                 | -12.70         | AV               |
| V                                         | 10360.157          | 62.42                      | 8.46                  | 39.75                     | 44.50                    | 66.13                         | 68.2               | -2.07          | PK               |
| V                                         | 10360.157          | 43.12                      | 8.46                  | 39.75                     | 44.50                    | 46.83                         | 54                 | -7.17          | AV               |
| V                                         | 15540.079          | 60.95                      | 10.12                 | 38.80                     | 44.10                    | 65.77                         | 74                 | -8.23          | PK               |
| V                                         | 15540.079          | 43.67                      | 10.12                 | 38.80                     | 42.70                    | 49.89                         | 54                 | -4.11          | AV               |
| H                                         | 4434.135           | 63.95                      | 5.94                  | 35.18                     | 44.00                    | 61.07                         | 68.2               | -7.13          | PK               |
| H                                         | 4434.135           | 43.14                      | 5.94                  | 35.18                     | 44.00                    | 40.26                         | 54                 | -13.74         | AV               |
| H                                         | 10360.012          | 54.63                      | 8.46                  | 38.71                     | 44.50                    | 57.30                         | 68.2               | -10.90         | PK               |
| H                                         | 10360.012          | 44.05                      | 8.46                  | 38.71                     | 44.50                    | 46.72                         | 54                 | -7.28          | AV               |
| H                                         | 15540.022          | 53.29                      | 10.12                 | 38.38                     | 44.10                    | 57.69                         | 74                 | -16.31         | PK               |
| H                                         | 15540.022          | 44.53                      | 10.12                 | 38.38                     | 44.10                    | 48.93                         | 54                 | -5.07          | AV               |
| <b>middle Channel (5200 MHz)-Above 1G</b> |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                         | 4592.081           | 62.19                      | 6.48                  | 36.35                     | 44.05                    | 60.97                         | 74                 | -13.03         | PK               |
| V                                         | 4592.081           | 43.41                      | 6.48                  | 36.35                     | 44.05                    | 42.19                         | 54                 | -11.81         | AV               |
| V                                         | 10400.183          | 61.33                      | 8.47                  | 37.88                     | 44.51                    | 63.17                         | 68.2               | -5.03          | PK               |
| V                                         | 10400.183          | 43.51                      | 8.47                  | 37.88                     | 44.51                    | 45.35                         | 54                 | -8.65          | AV               |
| V                                         | 15600.047          | 62.57                      | 10.12                 | 38.80                     | 44.10                    | 67.39                         | 74                 | -6.61          | PK               |
| V                                         | 15600.047          | 43.25                      | 10.12                 | 38.80                     | 42.70                    | 49.47                         | 54                 | -4.53          | AV               |
| H                                         | 4592.147           | 63.24                      | 6.48                  | 36.37                     | 44.05                    | 62.04                         | 74                 | -11.96         | PK               |
| H                                         | 4592.147           | 43.98                      | 6.48                  | 36.37                     | 44.05                    | 42.78                         | 54                 | -11.22         | AV               |
| H                                         | 10400.128          | 53.12                      | 8.47                  | 38.64                     | 44.50                    | 55.73                         | 68.2               | -12.47         | PK               |
| H                                         | 10400.128          | 44.62                      | 8.47                  | 38.64                     | 44.50                    | 47.23                         | 54                 | -6.77          | AV               |
| H                                         | 15600.162          | 53.81                      | 10.12                 | 38.38                     | 44.10                    | 58.21                         | 74                 | -15.79         | PK               |
| H                                         | 15600.162          | 44.26                      | 10.12                 | 38.38                     | 44.10                    | 48.66                         | 54                 | -5.34          | AV               |
| <b>High Channel (5240 MHz)-Above 1G</b>   |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                         | 4739.041           | 62.33                      | 7.10                  | 37.24                     | 43.50                    | 63.17                         | 74                 | -10.83         | PK               |
| V                                         | 4739.041           | 43.29                      | 7.10                  | 37.24                     | 43.50                    | 44.13                         | 54                 | -9.87          | AV               |
| V                                         | 10480.179          | 62.96                      | 8.46                  | 37.68                     | 44.50                    | 64.60                         | 68.2               | -3.60          | PK               |
| V                                         | 10480.179          | 43.31                      | 8.46                  | 37.68                     | 44.50                    | 44.95                         | 54                 | -9.05          | AV               |
| V                                         | 15720.174          | 62.84                      | 10.12                 | 38.80                     | 44.10                    | 67.66                         | 74                 | -6.34          | PK               |
| V                                         | 15720.174          | 43.25                      | 10.12                 | 38.80                     | 42.70                    | 49.47                         | 54                 | -4.53          | AV               |
| H                                         | 4739.001           | 61.65                      | 7.10                  | 37.24                     | 43.50                    | 62.49                         | 74                 | -11.51         | PK               |
| H                                         | 4739.001           | 43.33                      | 7.10                  | 37.24                     | 43.50                    | 44.17                         | 54                 | -9.83          | AV               |
| H                                         | 10480.046          | 53.94                      | 8.46                  | 38.57                     | 44.50                    | 56.47                         | 68.2               | -11.73         | PK               |
| H                                         | 10480.046          | 41.73                      | 8.46                  | 38.57                     | 44.50                    | 44.26                         | 54                 | -9.74          | AV               |
| H                                         | 15720.190          | 53.06                      | 10.12                 | 38.38                     | 44.10                    | 57.46                         | 74                 | -16.54         | PK               |
| H                                         | 15720.190          | 43.70                      | 10.12                 | 38.38                     | 44.10                    | 48.10                         | 54                 | -5.90          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|             |                         |
|-------------|-------------------------|
| Test Mode : | TX(5.1G) - 802.11n-HT40 |
|-------------|-------------------------|

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/<br>m) | Margin<br>(dB) | Detector<br>Type |
|-------------------------------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|------------------------|----------------|------------------|
| <b>Low Channel (5190 MHz)-Above 1G</b>    |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4434.103           | 62.13                      | 5.94                  | 35.40                     | 44.00                    | 59.47                         | 68.2                   | -8.73          | PK               |
| V                                         | 4434.103           | 43.46                      | 5.94                  | 35.40                     | 44.00                    | 40.80                         | 54                     | -13.20         | AV               |
| V                                         | 10380.150          | 60.08                      | 8.46                  | 39.75                     | 44.50                    | 63.79                         | 68.2                   | -4.41          | PK               |
| V                                         | 10380.150          | 43.48                      | 8.46                  | 39.75                     | 44.50                    | 47.19                         | 54                     | -6.81          | AV               |
| V                                         | 15570.091          | 64.97                      | 10.12                 | 38.80                     | 44.10                    | 69.79                         | 74                     | -4.21          | PK               |
| V                                         | 15570.091          | 43.60                      | 10.12                 | 38.80                     | 42.70                    | 49.82                         | 54                     | -4.18          | AV               |
| H                                         | 4434.075           | 60.91                      | 5.94                  | 35.18                     | 44.00                    | 58.03                         | 74                     | -15.97         | PK               |
| H                                         | 4434.075           | 43.68                      | 5.94                  | 35.18                     | 44.00                    | 40.80                         | 54                     | -13.20         | AV               |
| H                                         | 10380.197          | 54.08                      | 8.46                  | 38.71                     | 44.50                    | 56.75                         | 68.2                   | -11.45         | PK               |
| H                                         | 10380.197          | 41.39                      | 8.46                  | 38.71                     | 44.50                    | 44.06                         | 54                     | -9.94          | AV               |
| H                                         | 15570.044          | 52.48                      | 10.12                 | 38.38                     | 44.10                    | 56.88                         | 74                     | -17.12         | PK               |
| H                                         | 15570.044          | 43.58                      | 10.12                 | 38.38                     | 44.10                    | 47.98                         | 54                     | -6.02          | AV               |
| <b>middle Channel (5230 MHz)-Above 1G</b> |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4739.192           | 60.59                      | 6.48                  | 36.35                     | 44.05                    | 59.37                         | 68.2                   | -8.83          | PK               |
| V                                         | 4739.192           | 43.44                      | 6.48                  | 36.35                     | 44.05                    | 42.22                         | 54                     | -11.78         | AV               |
| V                                         | 10460.179          | 60.78                      | 8.47                  | 37.88                     | 44.51                    | 62.62                         | 68.2                   | -5.58          | PK               |
| V                                         | 10460.179          | 43.67                      | 8.47                  | 37.88                     | 44.51                    | 45.51                         | 54                     | -8.49          | AV               |
| V                                         | 15690.196          | 64.11                      | 10.12                 | 38.80                     | 44.10                    | 68.93                         | 74                     | -5.07          | PK               |
| V                                         | 15690.196          | 43.24                      | 10.12                 | 38.80                     | 42.70                    | 49.46                         | 54                     | -4.54          | AV               |
| H                                         | 4739.104           | 61.87                      | 6.48                  | 36.37                     | 44.05                    | 60.67                         | 68.2                   | -7.53          | PK               |
| H                                         | 4739.104           | 43.84                      | 6.48                  | 36.37                     | 44.05                    | 42.64                         | 54                     | -11.36         | AV               |
| H                                         | 10460.125          | 52.74                      | 8.47                  | 38.64                     | 44.50                    | 55.35                         | 68.2                   | -12.85         | PK               |
| H                                         | 10460.125          | 41.26                      | 8.47                  | 38.64                     | 44.50                    | 43.87                         | 54                     | -10.13         | AV               |
| H                                         | 15690.160          | 52.04                      | 10.12                 | 38.38                     | 44.10                    | 56.44                         | 74                     | -17.56         | PK               |
| H                                         | 15690.160          | 44.30                      | 10.12                 | 38.38                     | 44.10                    | 48.70                         | 54                     | -5.30          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.1G) - 802.11ac-HT20 |
|------------|--------------------------|

| Polar (H/V)                               | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-------------------------------------------|-----------------|----------------------|-----------------|-----------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5180 MHz)-Above 1G</b>    |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4434.030        | 61.74                | 5.94            | 35.40                 | 44.00              | 59.08                   | 68.2            | -9.12       | PK            |
| V                                         | 4434.030        | 43.03                | 5.94            | 35.40                 | 44.00              | 40.37                   | 54              | -13.63      | AV            |
| V                                         | 10360.187       | 60.33                | 8.46            | 39.75                 | 44.50              | 64.04                   | 68.2            | -4.16       | PK            |
| V                                         | 10360.187       | 43.91                | 8.46            | 39.75                 | 44.50              | 47.62                   | 54              | -6.38       | AV            |
| V                                         | 15540.079       | 61.15                | 10.12           | 38.80                 | 44.10              | 65.97                   | 74              | -8.03       | PK            |
| V                                         | 15540.079       | 43.89                | 10.12           | 38.80                 | 42.70              | 50.11                   | 54              | -3.89       | AV            |
| H                                         | 4434.091        | 63.26                | 5.94            | 35.18                 | 44.00              | 60.38                   | 68.2            | -7.82       | PK            |
| H                                         | 4434.091        | 43.60                | 5.94            | 35.18                 | 44.00              | 40.72                   | 54              | -13.28      | AV            |
| H                                         | 10360.022       | 53.46                | 8.46            | 38.71                 | 44.50              | 56.13                   | 68.2            | -12.07      | PK            |
| H                                         | 10360.022       | 42.95                | 8.46            | 38.71                 | 44.50              | 45.62                   | 54              | -8.38       | AV            |
| H                                         | 15540.095       | 52.94                | 10.12           | 38.38                 | 44.10              | 57.34                   | 74              | -16.66      | PK            |
| H                                         | 15540.095       | 40.11                | 10.12           | 38.38                 | 44.10              | 44.51                   | 54              | -9.49       | AV            |
| <b>Middle Channel (5200 MHz)-Above 1G</b> |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4592.047        | 64.24                | 6.48            | 36.35                 | 44.05              | 63.02                   | 74              | -10.98      | PK            |
| V                                         | 4592.047        | 43.11                | 6.48            | 36.35                 | 44.05              | 41.89                   | 54              | -12.11      | AV            |
| V                                         | 10400.047       | 61.58                | 8.47            | 37.88                 | 44.51              | 63.42                   | 68.2            | -4.78       | PK            |
| V                                         | 10400.047       | 43.00                | 8.47            | 37.88                 | 44.51              | 44.84                   | 54              | -9.16       | AV            |
| V                                         | 15600.110       | 62.72                | 10.12           | 38.80                 | 44.10              | 67.54                   | 74              | -6.46       | PK            |
| V                                         | 15600.110       | 43.28                | 10.12           | 38.80                 | 42.70              | 49.50                   | 54              | -4.50       | AV            |
| H                                         | 4592.118        | 61.71                | 6.48            | 36.37                 | 44.05              | 60.51                   | 74              | -13.49      | PK            |
| H                                         | 4592.118        | 43.64                | 6.48            | 36.37                 | 44.05              | 42.44                   | 54              | -11.56      | AV            |
| H                                         | 10400.082       | 52.21                | 8.47            | 38.64                 | 44.50              | 54.82                   | 68.2            | -13.38      | PK            |
| H                                         | 10400.082       | 43.61                | 8.47            | 38.64                 | 44.50              | 46.22                   | 54              | -7.78       | AV            |
| H                                         | 15600.164       | 53.52                | 10.12           | 38.38                 | 44.10              | 57.92                   | 74              | -16.08      | PK            |
| H                                         | 15600.164       | 40.17                | 10.12           | 38.38                 | 44.10              | 44.57                   | 54              | -9.43       | AV            |
| <b>High Channel (5240 MHz)-Above 1G</b>   |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4739.046        | 62.80                | 7.10            | 37.24                 | 43.50              | 63.64                   | 74              | -10.36      | PK            |
| V                                         | 4739.046        | 43.16                | 7.10            | 37.24                 | 43.50              | 44.00                   | 54              | -10.00      | AV            |
| V                                         | 10480.092       | 63.34                | 8.46            | 37.68                 | 44.50              | 64.98                   | 68.2            | -3.22       | PK            |
| V                                         | 10480.092       | 43.22                | 8.46            | 37.68                 | 44.50              | 44.86                   | 54              | -9.14       | AV            |
| V                                         | 15720.037       | 63.40                | 10.12           | 38.80                 | 44.10              | 68.22                   | 74              | -5.78       | PK            |
| V                                         | 15720.037       | 43.95                | 10.12           | 38.80                 | 42.70              | 50.17                   | 54              | -3.83       | AV            |
| H                                         | 4739.086        | 63.18                | 7.10            | 37.24                 | 43.50              | 64.02                   | 74              | -9.98       | PK            |
| H                                         | 4739.086        | 43.95                | 7.10            | 37.24                 | 43.50              | 44.79                   | 54              | -9.21       | AV            |
| H                                         | 10480.046       | 50.89                | 8.46            | 38.57                 | 44.50              | 53.42                   | 68.2            | -14.78      | PK            |
| H                                         | 10480.046       | 40.12                | 8.46            | 38.57                 | 44.50              | 42.65                   | 54              | -11.35      | AV            |
| H                                         | 15720.066       | 50.26                | 10.12           | 38.38                 | 44.10              | 54.66                   | 74              | -19.34      | PK            |
| H                                         | 15720.066       | 43.50                | 10.12           | 38.38                 | 44.10              | 47.90                   | 54              | -6.10       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.1G) - 802.11ac-HT40 |
|------------|--------------------------|

| Polar (H/V)                             | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-----------------------------------------|-----------------|----------------------|-----------------|-----------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5190 MHz)-Above 1G</b>  |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                       | 4434.073        | 61.26                | 5.94            | 35.40                 | 44.00              | 58.60                   | 68.2            | -9.60       | PK            |
| V                                       | 4434.073        | 43.14                | 5.94            | 35.40                 | 44.00              | 40.48                   | 54              | -13.52      | AV            |
| V                                       | 10380.199       | 61.39                | 8.46            | 39.75                 | 44.50              | 65.10                   | 68.2            | -3.10       | PK            |
| V                                       | 10380.199       | 43.22                | 8.46            | 39.75                 | 44.50              | 46.93                   | 54              | -7.07       | AV            |
| V                                       | 15570.063       | 61.78                | 10.12           | 38.80                 | 44.10              | 66.60                   | 74              | -7.40       | PK            |
| V                                       | 15570.063       | 43.55                | 10.12           | 38.80                 | 42.70              | 49.77                   | 54              | -4.23       | AV            |
| H                                       | 4434.007        | 62.54                | 5.94            | 35.18                 | 44.00              | 59.66                   | 74              | -14.34      | PK            |
| H                                       | 4434.007        | 43.93                | 5.94            | 35.18                 | 44.00              | 41.05                   | 54              | -12.95      | AV            |
| H                                       | 10380.166       | 52.70                | 8.46            | 38.71                 | 44.50              | 55.37                   | 68.2            | -12.83      | PK            |
| H                                       | 10380.166       | 43.79                | 8.46            | 38.71                 | 44.50              | 46.46                   | 54              | -7.54       | AV            |
| H                                       | 15570.112       | 52.64                | 10.12           | 38.38                 | 44.10              | 57.04                   | 74              | -16.96      | PK            |
| H                                       | 15570.112       | 41.99                | 10.12           | 38.38                 | 44.10              | 46.39                   | 54              | -7.61       | AV            |
| <b>High Channel (5230 MHz)-Above 1G</b> |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                       | 4739.058        | 62.01                | 6.48            | 36.35                 | 44.05              | 60.79                   | 68.2            | -7.41       | PK            |
| V                                       | 4739.058        | 43.51                | 6.48            | 36.35                 | 44.05              | 42.29                   | 54              | -11.71      | AV            |
| V                                       | 10460.122       | 61.30                | 8.47            | 37.88                 | 44.51              | 63.14                   | 68.2            | -5.06       | PK            |
| V                                       | 10460.122       | 43.38                | 8.47            | 37.88                 | 44.51              | 45.22                   | 54              | -8.78       | AV            |
| V                                       | 15690.080       | 61.57                | 10.12           | 38.80                 | 44.10              | 66.39                   | 74              | -7.61       | PK            |
| V                                       | 15690.080       | 43.70                | 10.12           | 38.80                 | 42.70              | 49.92                   | 54              | -4.08       | AV            |
| H                                       | 4739.083        | 62.87                | 6.48            | 36.37                 | 44.05              | 61.67                   | 68.2            | -6.53       | PK            |
| H                                       | 4739.083        | 43.10                | 6.48            | 36.37                 | 44.05              | 41.90                   | 54              | -12.10      | AV            |
| H                                       | 10460.015       | 54.73                | 8.47            | 38.64                 | 44.50              | 57.34                   | 68.2            | -10.86      | PK            |
| H                                       | 10460.015       | 44.55                | 8.47            | 38.64                 | 44.50              | 47.16                   | 54              | -6.84       | AV            |
| H                                       | 15690.189       | 51.41                | 10.12           | 38.38                 | 44.10              | 55.81                   | 74              | -18.19      | PK            |
| H                                       | 15690.189       | 41.27                | 10.12           | 38.38                 | 44.10              | 45.67                   | 54              | -8.33       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.1G) - 802.11ac-HT80 |
|------------|--------------------------|

| Polar (H/V)         | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor dB/m | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---------------------|-----------------|----------------------|-----------------|---------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| (5210 MHz)-Above 1G |                 |                      |                 |                     |                    |                         |                 |             |               |
| V                   | 4434.124        | 61.98                | 5.94            | 35.40               | 44.00              | 59.32                   | 68.2            | -8.88       | PK            |
| V                   | 4434.124        | 43.97                | 5.94            | 35.40               | 44.00              | 41.31                   | 54              | -12.69      | AV            |
| V                   | 10420.104       | 62.90                | 8.46            | 39.75               | 44.50              | 66.61                   | 68.2            | -1.59       | PK            |
| V                   | 10420.104       | 43.52                | 8.46            | 39.75               | 44.50              | 47.23                   | 54              | -6.77       | AV            |
| V                   | 15630.036       | 61.19                | 10.12           | 38.80               | 44.10              | 66.01                   | 74              | -7.99       | PK            |
| V                   | 15630.036       | 43.24                | 10.12           | 38.80               | 42.70              | 49.46                   | 54              | -4.54       | AV            |
| H                   | 4434.002        | 61.28                | 5.94            | 35.18               | 44.00              | 58.40                   | 68.2            | -9.80       | PK            |
| H                   | 4434.002        | 43.22                | 5.94            | 35.18               | 44.00              | 40.34                   | 54              | -13.66      | AV            |
| H                   | 10420.096       | 52.75                | 8.46            | 38.71               | 44.50              | 55.42                   | 68.2            | -12.78      | PK            |
| H                   | 10420.096       | 40.06                | 8.46            | 38.71               | 44.50              | 42.73                   | 54              | -11.27      | AV            |
| H                   | 15630.180       | 52.26                | 10.12           | 38.38               | 44.10              | 56.66                   | 74              | -17.34      | PK            |
| H                   | 15630.180       | 41.18                | 10.12           | 38.38               | 44.10              | 45.58                   | 54              | -8.42       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                    |
|------------|--------------------|
| Test Mode: | TX(5.3G) - 802.11a |
|------------|--------------------|

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/<br>m) | Margin<br>(dB) | Detector<br>Type |
|-------------------------------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|------------------------|----------------|------------------|
| <b>Low Channel (5260 MHz)-Above 1G</b>    |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4434.062           | 60.52                      | 5.94                  | 35.40                     | 44.00                    | 57.86                         | 68.2                   | -10.34         | PK               |
| V                                         | 4434.062           | 43.34                      | 5.94                  | 35.40                     | 44.00                    | 40.68                         | 54                     | -13.32         | AV               |
| V                                         | 10520.016          | 63.65                      | 8.46                  | 39.75                     | 44.50                    | 67.36                         | 68.2                   | -0.84          | PK               |
| V                                         | 10520.016          | 43.66                      | 8.46                  | 39.75                     | 44.50                    | 47.37                         | 54                     | -6.63          | AV               |
| V                                         | 15780.105          | 62.18                      | 10.12                 | 38.80                     | 44.10                    | 67.00                         | 74                     | -7.00          | PK               |
| V                                         | 15780.105          | 43.71                      | 10.12                 | 38.80                     | 42.70                    | 49.93                         | 54                     | -4.07          | AV               |
| H                                         | 4434.129           | 63.69                      | 5.94                  | 35.18                     | 44.00                    | 60.81                         | 68.2                   | -7.39          | PK               |
| H                                         | 4434.129           | 43.64                      | 5.94                  | 35.18                     | 44.00                    | 40.76                         | 54                     | -13.24         | AV               |
| H                                         | 10520.120          | 53.31                      | 8.46                  | 38.71                     | 44.50                    | 55.98                         | 68.2                   | -12.22         | PK               |
| H                                         | 10520.120          | 42.72                      | 8.46                  | 38.71                     | 44.50                    | 45.39                         | 54                     | -8.61          | AV               |
| H                                         | 15780.126          | 52.26                      | 10.12                 | 38.38                     | 44.10                    | 56.66                         | 74                     | -17.34         | PK               |
| H                                         | 15780.126          | 43.22                      | 10.12                 | 38.38                     | 44.10                    | 47.62                         | 54                     | -6.38          | AV               |
| <b>middle Channel (5280 MHz)-Above 1G</b> |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4592.125           | 63.21                      | 6.48                  | 36.35                     | 44.05                    | 61.99                         | 74                     | -12.01         | PK               |
| V                                         | 4592.125           | 43.65                      | 6.48                  | 36.35                     | 44.05                    | 42.43                         | 54                     | -11.57         | AV               |
| V                                         | 10560.145          | 60.18                      | 8.47                  | 37.88                     | 44.51                    | 62.02                         | 68.2                   | -6.18          | PK               |
| V                                         | 10560.145          | 43.09                      | 8.47                  | 37.88                     | 44.51                    | 44.93                         | 54                     | -9.07          | AV               |
| V                                         | 15840.027          | 61.34                      | 10.12                 | 38.80                     | 44.10                    | 66.16                         | 74                     | -7.84          | PK               |
| V                                         | 15840.027          | 43.62                      | 10.12                 | 38.80                     | 42.70                    | 49.84                         | 54                     | -4.16          | AV               |
| H                                         | 4592.164           | 62.66                      | 6.48                  | 36.37                     | 44.05                    | 61.46                         | 74                     | -12.54         | PK               |
| H                                         | 4592.164           | 43.44                      | 6.48                  | 36.37                     | 44.05                    | 42.24                         | 54                     | -11.76         | AV               |
| H                                         | 10560.003          | 52.31                      | 8.47                  | 38.64                     | 44.50                    | 54.92                         | 68.2                   | -13.28         | PK               |
| H                                         | 10560.003          | 42.33                      | 8.47                  | 38.64                     | 44.50                    | 44.94                         | 54                     | -9.06          | AV               |
| H                                         | 15840.001          | 52.84                      | 10.12                 | 38.38                     | 44.10                    | 57.24                         | 74                     | -16.76         | PK               |
| H                                         | 15840.001          | 43.09                      | 10.12                 | 38.38                     | 44.10                    | 47.49                         | 54                     | -6.51          | AV               |
| <b>High Channel (5320 MHz)-Above 1G</b>   |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4739.134           | 60.95                      | 7.10                  | 37.24                     | 43.50                    | 61.79                         | 74                     | -12.21         | PK               |
| V                                         | 4739.134           | 43.27                      | 7.10                  | 37.24                     | 43.50                    | 44.11                         | 54                     | -9.89          | AV               |
| V                                         | 10640.047          | 60.36                      | 8.46                  | 37.68                     | 44.50                    | 62.00                         | 68.2                   | -6.20          | PK               |
| V                                         | 10640.047          | 43.07                      | 8.46                  | 37.68                     | 44.50                    | 44.71                         | 54                     | -9.29          | AV               |
| V                                         | 15960.005          | 61.42                      | 10.12                 | 38.80                     | 44.10                    | 66.24                         | 74                     | -7.76          | PK               |
| V                                         | 15960.005          | 43.29                      | 10.12                 | 38.80                     | 42.70                    | 49.51                         | 54                     | -4.49          | AV               |
| H                                         | 4739.016           | 62.81                      | 7.10                  | 37.24                     | 43.50                    | 63.65                         | 74                     | -10.35         | PK               |
| H                                         | 4739.016           | 43.80                      | 7.10                  | 37.24                     | 43.50                    | 44.64                         | 54                     | -9.36          | AV               |
| H                                         | 10640.186          | 54.56                      | 8.46                  | 38.57                     | 44.50                    | 57.09                         | 68.2                   | -11.11         | PK               |
| H                                         | 10640.186          | 43.39                      | 8.46                  | 38.57                     | 44.50                    | 45.92                         | 54                     | -8.08          | AV               |
| H                                         | 15960.009          | 54.73                      | 10.12                 | 38.38                     | 44.10                    | 59.13                         | 74                     | -14.87         | PK               |
| H                                         | 15960.009          | 42.58                      | 10.12                 | 38.38                     | 44.10                    | 46.98                         | 54                     | -7.02          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

The worst case is Antenna A.

|            |                         |
|------------|-------------------------|
| Test Mode: | TX(5.3G) - 802.11n-HT20 |
|------------|-------------------------|

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/<br>m) | Margin<br>(dB) | Detector<br>Type |
|-------------------------------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|------------------------|----------------|------------------|
| <b>Low Channel (5260 MHz)-Above 1G</b>    |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4434.190           | 63.43                      | 5.94                  | 35.40                     | 44.00                    | 60.77                         | 68.2                   | -7.43          | PK               |
| V                                         | 4434.190           | 43.51                      | 5.94                  | 35.40                     | 44.00                    | 40.85                         | 54                     | -13.15         | AV               |
| V                                         | 10520.079          | 62.09                      | 8.46                  | 39.75                     | 44.50                    | 65.80                         | 68.2                   | -2.40          | PK               |
| V                                         | 10520.079          | 43.34                      | 8.46                  | 39.75                     | 44.50                    | 47.05                         | 54                     | -6.95          | AV               |
| V                                         | 15780.176          | 62.41                      | 10.12                 | 38.80                     | 44.10                    | 67.23                         | 74                     | -6.77          | PK               |
| V                                         | 15780.176          | 43.81                      | 10.12                 | 38.80                     | 42.70                    | 50.03                         | 54                     | -3.97          | AV               |
| H                                         | 4434.148           | 62.04                      | 5.94                  | 35.18                     | 44.00                    | 59.16                         | 68.2                   | -9.04          | PK               |
| H                                         | 4434.148           | 43.27                      | 5.94                  | 35.18                     | 44.00                    | 40.39                         | 54                     | -13.61         | AV               |
| H                                         | 10520.139          | 50.99                      | 8.46                  | 38.71                     | 44.50                    | 53.66                         | 68.2                   | -14.54         | PK               |
| H                                         | 10520.139          | 40.03                      | 8.46                  | 38.71                     | 44.50                    | 42.70                         | 54                     | -11.30         | AV               |
| H                                         | 15780.084          | 50.28                      | 10.12                 | 38.38                     | 44.10                    | 54.68                         | 74                     | -19.32         | PK               |
| H                                         | 15780.084          | 42.75                      | 10.12                 | 38.38                     | 44.10                    | 47.15                         | 54                     | -6.85          | AV               |
| <b>middle Channel (5280 MHz)-Above 1G</b> |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4592.096           | 61.50                      | 6.48                  | 36.35                     | 44.05                    | 60.28                         | 74                     | -13.72         | PK               |
| V                                         | 4592.096           | 43.79                      | 6.48                  | 36.35                     | 44.05                    | 42.57                         | 54                     | -11.43         | AV               |
| V                                         | 10560.012          | 62.99                      | 8.47                  | 37.88                     | 44.51                    | 64.83                         | 68.2                   | -3.37          | PK               |
| V                                         | 10560.012          | 43.25                      | 8.47                  | 37.88                     | 44.51                    | 45.09                         | 54                     | -8.91          | AV               |
| V                                         | 15840.172          | 61.56                      | 10.12                 | 38.80                     | 44.10                    | 66.38                         | 74                     | -7.62          | PK               |
| V                                         | 15840.172          | 43.79                      | 10.12                 | 38.80                     | 42.70                    | 50.01                         | 54                     | -3.99          | AV               |
| H                                         | 4592.079           | 63.88                      | 6.48                  | 36.37                     | 44.05                    | 62.68                         | 74                     | -11.32         | PK               |
| H                                         | 4592.079           | 43.34                      | 6.48                  | 36.37                     | 44.05                    | 42.14                         | 54                     | -11.86         | AV               |
| H                                         | 10560.157          | 51.93                      | 8.47                  | 38.64                     | 44.50                    | 54.54                         | 68.2                   | -13.66         | PK               |
| H                                         | 10560.157          | 42.61                      | 8.47                  | 38.64                     | 44.50                    | 45.22                         | 54                     | -8.78          | AV               |
| H                                         | 15840.127          | 50.28                      | 10.12                 | 38.38                     | 44.10                    | 54.68                         | 74                     | -19.32         | PK               |
| H                                         | 15840.127          | 41.23                      | 10.12                 | 38.38                     | 44.10                    | 45.63                         | 54                     | -8.37          | AV               |
| <b>High Channel (5320 MHz)-Above 1G</b>   |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4739.191           | 61.09                      | 7.10                  | 37.24                     | 43.50                    | 61.93                         | 74                     | -12.07         | PK               |
| V                                         | 4739.191           | 43.55                      | 7.10                  | 37.24                     | 43.50                    | 44.39                         | 54                     | -9.61          | AV               |
| V                                         | 10640.100          | 60.39                      | 8.46                  | 37.68                     | 44.50                    | 62.03                         | 68.2                   | -6.17          | PK               |
| V                                         | 10640.100          | 43.10                      | 8.46                  | 37.68                     | 44.50                    | 44.74                         | 54                     | -9.26          | AV               |
| V                                         | 15960.095          | 60.87                      | 10.12                 | 38.80                     | 44.10                    | 65.69                         | 74                     | -8.31          | PK               |
| V                                         | 15960.095          | 43.87                      | 10.12                 | 38.80                     | 42.70                    | 50.09                         | 54                     | -3.91          | AV               |
| H                                         | 4739.128           | 62.01                      | 7.10                  | 37.24                     | 43.50                    | 62.85                         | 74                     | -11.15         | PK               |
| H                                         | 4739.128           | 43.48                      | 7.10                  | 37.24                     | 43.50                    | 44.32                         | 54                     | -9.68          | AV               |
| H                                         | 10640.007          | 52.45                      | 8.46                  | 38.57                     | 44.50                    | 54.98                         | 68.2                   | -13.22         | PK               |
| H                                         | 10640.007          | 41.48                      | 8.46                  | 38.57                     | 44.50                    | 44.01                         | 54                     | -9.99          | AV               |
| H                                         | 15960.084          | 53.16                      | 10.12                 | 38.38                     | 44.10                    | 57.56                         | 74                     | -16.44         | PK               |
| H                                         | 15960.084          | 44.87                      | 10.12                 | 38.38                     | 44.10                    | 49.27                         | 54                     | -4.73          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|             |                         |
|-------------|-------------------------|
| Test Mode : | TX(5.3G) - 802.11n-HT40 |
|-------------|-------------------------|

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/<br>m) | Margin<br>(dB) | Detector<br>Type |
|-------------------------------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|------------------------|----------------|------------------|
| <b>Low Channel (5270 MHz)-Above 1G</b>    |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4434.184           | 61.68                      | 5.94                  | 35.40                     | 44.00                    | 59.02                         | 68.2                   | -9.18          | PK               |
| V                                         | 4434.184           | 43.12                      | 5.94                  | 35.40                     | 44.00                    | 40.46                         | 54                     | -13.54         | AV               |
| V                                         | 10540.188          | 60.74                      | 8.46                  | 39.75                     | 44.50                    | 64.45                         | 68.2                   | -3.75          | PK               |
| V                                         | 10540.188          | 43.11                      | 8.46                  | 39.75                     | 44.50                    | 46.82                         | 54                     | -7.18          | AV               |
| V                                         | 15810.162          | 62.12                      | 10.12                 | 38.80                     | 44.10                    | 66.94                         | 74                     | -7.06          | PK               |
| V                                         | 15810.162          | 43.31                      | 10.12                 | 38.80                     | 42.70                    | 49.53                         | 54                     | -4.47          | AV               |
| H                                         | 4434.127           | 62.91                      | 5.94                  | 35.18                     | 44.00                    | 60.03                         | 74                     | -13.97         | PK               |
| H                                         | 4434.127           | 43.54                      | 5.94                  | 35.18                     | 44.00                    | 40.66                         | 54                     | -13.34         | AV               |
| H                                         | 10540.121          | 54.61                      | 8.46                  | 38.71                     | 44.50                    | 57.28                         | 68.2                   | -10.92         | PK               |
| H                                         | 10540.121          | 44.79                      | 8.46                  | 38.71                     | 44.50                    | 47.46                         | 54                     | -6.54          | AV               |
| H                                         | 15810.066          | 50.95                      | 10.12                 | 38.38                     | 44.10                    | 55.35                         | 74                     | -18.65         | PK               |
| H                                         | 15810.066          | 40.10                      | 10.12                 | 38.38                     | 44.10                    | 44.50                         | 54                     | -9.50          | AV               |
| <b>middle Channel (5310 MHz)-Above 1G</b> |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4739.092           | 60.51                      | 6.48                  | 36.35                     | 44.05                    | 59.29                         | 68.2                   | -8.91          | PK               |
| V                                         | 4739.092           | 43.04                      | 6.48                  | 36.35                     | 44.05                    | 41.82                         | 54                     | -12.18         | AV               |
| V                                         | 10620.170          | 61.62                      | 8.47                  | 37.88                     | 44.51                    | 63.46                         | 68.2                   | -4.74          | PK               |
| V                                         | 10620.170          | 43.83                      | 8.47                  | 37.88                     | 44.51                    | 45.67                         | 54                     | -8.33          | AV               |
| V                                         | 15930.191          | 63.71                      | 10.12                 | 38.80                     | 44.10                    | 68.53                         | 74                     | -5.47          | PK               |
| V                                         | 15930.191          | 43.68                      | 10.12                 | 38.80                     | 42.70                    | 49.90                         | 54                     | -4.10          | AV               |
| H                                         | 4739.149           | 62.37                      | 6.48                  | 36.37                     | 44.05                    | 61.17                         | 68.2                   | -7.03          | PK               |
| H                                         | 4739.149           | 43.77                      | 6.48                  | 36.37                     | 44.05                    | 42.57                         | 54                     | -11.43         | AV               |
| H                                         | 10620.080          | 54.54                      | 8.47                  | 38.64                     | 44.50                    | 57.15                         | 68.2                   | -11.05         | PK               |
| H                                         | 10620.080          | 41.18                      | 8.47                  | 38.64                     | 44.50                    | 43.79                         | 54                     | -10.21         | AV               |
| H                                         | 15930.131          | 52.72                      | 10.12                 | 38.38                     | 44.10                    | 57.12                         | 74                     | -16.88         | PK               |
| H                                         | 15930.131          | 43.15                      | 10.12                 | 38.38                     | 44.10                    | 47.55                         | 54                     | -6.45          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|             |                          |
|-------------|--------------------------|
| Test Mode : | TX(5.3G) - 802.11ac-HT20 |
|-------------|--------------------------|

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|-------------------------------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|--------------------|----------------|------------------|
| <b>Low Channel (5260 MHz)-Above 1G</b>    |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                         | 4434.161           | 62.83                      | 5.94                  | 35.40                     | 44.00                    | 60.17                         | 68.2               | -8.03          | PK               |
| V                                         | 4434.161           | 43.63                      | 5.94                  | 35.40                     | 44.00                    | 40.97                         | 54                 | -13.03         | AV               |
| V                                         | 10520.060          | 61.00                      | 8.46                  | 39.75                     | 44.50                    | 64.71                         | 68.2               | -3.49          | PK               |
| V                                         | 10520.060          | 43.32                      | 8.46                  | 39.75                     | 44.50                    | 47.03                         | 54                 | -6.97          | AV               |
| V                                         | 15780.027          | 63.99                      | 10.12                 | 38.80                     | 44.10                    | 68.81                         | 74                 | -5.19          | PK               |
| V                                         | 15780.027          | 43.01                      | 10.12                 | 38.80                     | 42.70                    | 49.23                         | 54                 | -4.77          | AV               |
| H                                         | 4434.090           | 64.65                      | 5.94                  | 35.18                     | 44.00                    | 61.77                         | 68.2               | -6.43          | PK               |
| H                                         | 4434.090           | 43.35                      | 5.94                  | 35.18                     | 44.00                    | 40.47                         | 54                 | -13.53         | AV               |
| H                                         | 10520.034          | 53.06                      | 8.46                  | 38.71                     | 44.50                    | 55.73                         | 68.2               | -12.47         | PK               |
| H                                         | 10520.034          | 44.36                      | 8.46                  | 38.71                     | 44.50                    | 47.03                         | 54                 | -6.97          | AV               |
| H                                         | 15780.149          | 53.74                      | 10.12                 | 38.38                     | 44.10                    | 58.14                         | 74                 | -15.86         | PK               |
| H                                         | 15780.149          | 43.60                      | 10.12                 | 38.38                     | 44.10                    | 48.00                         | 54                 | -6.00          | AV               |
| <b>middle Channel (5280 MHz)-Above 1G</b> |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                         | 4592.069           | 63.97                      | 6.48                  | 36.35                     | 44.05                    | 62.75                         | 74                 | -11.25         | PK               |
| V                                         | 4592.069           | 43.00                      | 6.48                  | 36.35                     | 44.05                    | 41.78                         | 54                 | -12.22         | AV               |
| V                                         | 10560.151          | 61.46                      | 8.47                  | 37.88                     | 44.51                    | 63.30                         | 68.2               | -4.90          | PK               |
| V                                         | 10560.151          | 43.27                      | 8.47                  | 37.88                     | 44.51                    | 45.11                         | 54                 | -8.89          | AV               |
| V                                         | 15840.068          | 62.42                      | 10.12                 | 38.80                     | 44.10                    | 67.24                         | 74                 | -6.76          | PK               |
| V                                         | 15840.068          | 43.23                      | 10.12                 | 38.80                     | 42.70                    | 49.45                         | 54                 | -4.55          | AV               |
| H                                         | 4592.080           | 60.19                      | 6.48                  | 36.37                     | 44.05                    | 58.99                         | 74                 | -15.01         | PK               |
| H                                         | 4592.080           | 43.15                      | 6.48                  | 36.37                     | 44.05                    | 41.95                         | 54                 | -12.05         | AV               |
| H                                         | 10560.162          | 50.25                      | 8.47                  | 38.64                     | 44.50                    | 52.86                         | 68.2               | -15.34         | PK               |
| H                                         | 10560.162          | 42.17                      | 8.47                  | 38.64                     | 44.50                    | 44.78                         | 54                 | -9.22          | AV               |
| H                                         | 15840.199          | 52.54                      | 10.12                 | 38.38                     | 44.10                    | 56.94                         | 74                 | -17.06         | PK               |
| H                                         | 15840.199          | 42.38                      | 10.12                 | 38.38                     | 44.10                    | 46.78                         | 54                 | -7.22          | AV               |
| <b>High Channel (5320 MHz)-Above 1G</b>   |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                         | 4739.094           | 60.76                      | 7.10                  | 37.24                     | 43.50                    | 61.60                         | 74                 | -12.40         | PK               |
| V                                         | 4739.094           | 43.22                      | 7.10                  | 37.24                     | 43.50                    | 44.06                         | 54                 | -9.94          | AV               |
| V                                         | 10640.091          | 61.05                      | 8.46                  | 37.68                     | 44.50                    | 62.69                         | 68.2               | -5.51          | PK               |
| V                                         | 10640.091          | 43.57                      | 8.46                  | 37.68                     | 44.50                    | 45.21                         | 54                 | -8.79          | AV               |
| V                                         | 15960.039          | 64.94                      | 10.12                 | 38.80                     | 44.10                    | 69.76                         | 74                 | -4.24          | PK               |
| V                                         | 15960.039          | 43.24                      | 10.12                 | 38.80                     | 42.70                    | 49.46                         | 54                 | -4.54          | AV               |
| H                                         | 4739.080           | 61.73                      | 7.10                  | 37.24                     | 43.50                    | 62.57                         | 74                 | -11.43         | PK               |
| H                                         | 4739.080           | 43.72                      | 7.10                  | 37.24                     | 43.50                    | 44.56                         | 54                 | -9.44          | AV               |
| H                                         | 10640.099          | 53.97                      | 8.46                  | 38.57                     | 44.50                    | 56.50                         | 68.2               | -11.70         | PK               |
| H                                         | 10640.099          | 43.89                      | 8.46                  | 38.57                     | 44.50                    | 46.42                         | 54                 | -7.58          | AV               |
| H                                         | 15960.070          | 50.38                      | 10.12                 | 38.38                     | 44.10                    | 54.78                         | 74                 | -19.22         | PK               |
| H                                         | 15960.070          | 41.59                      | 10.12                 | 38.38                     | 44.10                    | 45.99                         | 54                 | -8.01          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|             |                          |
|-------------|--------------------------|
| Test Mode : | TX(5.3G) - 802.11ac-HT40 |
|-------------|--------------------------|

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/<br>m) | Margin<br>(dB) | Detector<br>Type |
|-------------------------------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|------------------------|----------------|------------------|
| <b>Low Channel (5270 MHz)-Above 1G</b>    |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4434.038           | 63.22                      | 5.94                  | 35.40                     | 44.00                    | 60.56                         | 68.2                   | -7.64          | PK               |
| V                                         | 4434.038           | 43.64                      | 5.94                  | 35.40                     | 44.00                    | 40.98                         | 54                     | -13.02         | AV               |
| V                                         | 10540.024          | 63.09                      | 8.46                  | 39.75                     | 44.50                    | 66.80                         | 68.2                   | -1.40          | PK               |
| V                                         | 10540.024          | 43.33                      | 8.46                  | 39.75                     | 44.50                    | 47.04                         | 54                     | -6.96          | AV               |
| V                                         | 15810.041          | 61.67                      | 10.12                 | 38.80                     | 44.10                    | 66.49                         | 74                     | -7.51          | PK               |
| V                                         | 15810.041          | 43.27                      | 10.12                 | 38.80                     | 42.70                    | 49.49                         | 54                     | -4.51          | AV               |
| H                                         | 4434.024           | 64.11                      | 5.94                  | 35.18                     | 44.00                    | 61.23                         | 74                     | -12.77         | PK               |
| H                                         | 4434.024           | 43.63                      | 5.94                  | 35.18                     | 44.00                    | 40.75                         | 54                     | -13.25         | AV               |
| H                                         | 10540.036          | 53.77                      | 8.46                  | 38.71                     | 44.50                    | 56.44                         | 68.2                   | -11.76         | PK               |
| H                                         | 10540.036          | 45.00                      | 8.46                  | 38.71                     | 44.50                    | 47.67                         | 54                     | -6.33          | AV               |
| H                                         | 15810.181          | 54.73                      | 10.12                 | 38.38                     | 44.10                    | 59.13                         | 74                     | -14.87         | PK               |
| H                                         | 15810.181          | 40.44                      | 10.12                 | 38.38                     | 44.10                    | 44.84                         | 54                     | -9.16          | AV               |
| <b>middle Channel (5310 MHz)-Above 1G</b> |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                                         | 4739.038           | 61.60                      | 6.48                  | 36.35                     | 44.05                    | 60.38                         | 68.2                   | -7.82          | PK               |
| V                                         | 4739.038           | 43.38                      | 6.48                  | 36.35                     | 44.05                    | 42.16                         | 54                     | -11.84         | AV               |
| V                                         | 10620.032          | 63.44                      | 8.47                  | 37.88                     | 44.51                    | 65.28                         | 68.2                   | -2.92          | PK               |
| V                                         | 10620.032          | 43.91                      | 8.47                  | 37.88                     | 44.51                    | 45.75                         | 54                     | -8.25          | AV               |
| V                                         | 15930.049          | 64.21                      | 10.12                 | 38.80                     | 44.10                    | 69.03                         | 74                     | -4.97          | PK               |
| V                                         | 15930.049          | 43.03                      | 10.12                 | 38.80                     | 42.70                    | 49.25                         | 54                     | -4.75          | AV               |
| H                                         | 4739.058           | 64.00                      | 6.48                  | 36.37                     | 44.05                    | 62.80                         | 68.2                   | -5.40          | PK               |
| H                                         | 4739.058           | 43.79                      | 6.48                  | 36.37                     | 44.05                    | 42.59                         | 54                     | -11.41         | AV               |
| H                                         | 10620.148          | 53.62                      | 8.47                  | 38.64                     | 44.50                    | 56.23                         | 68.2                   | -11.97         | PK               |
| H                                         | 10620.148          | 41.23                      | 8.47                  | 38.64                     | 44.50                    | 43.84                         | 54                     | -10.16         | AV               |
| H                                         | 15930.188          | 52.69                      | 10.12                 | 38.38                     | 44.10                    | 57.09                         | 74                     | -16.91         | PK               |
| H                                         | 15930.188          | 42.65                      | 10.12                 | 38.38                     | 44.10                    | 47.05                         | 54                     | -6.95          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.3G) - 802.11ac-HT80 |
|------------|--------------------------|

| Polar<br>(H/V)      | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/<br>m) | Margin<br>(dB) | Detector<br>Type |
|---------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|------------------------|----------------|------------------|
| (5290 MHz)-Above 1G |                    |                            |                       |                           |                          |                               |                        |                |                  |
| V                   | 4434.014           | 63.29                      | 5.94                  | 35.40                     | 44.00                    | 60.63                         | 68.2                   | -7.57          | PK               |
| V                   | 4434.014           | 43.64                      | 5.94                  | 35.40                     | 44.00                    | 40.98                         | 54                     | -13.02         | AV               |
| V                   | 10580.075          | 62.80                      | 8.46                  | 39.75                     | 44.50                    | 66.51                         | 68.2                   | -1.69          | PK               |
| V                   | 10580.075          | 43.78                      | 8.46                  | 39.75                     | 44.50                    | 47.49                         | 54                     | -6.51          | AV               |
| V                   | 15870.084          | 61.81                      | 10.12                 | 38.80                     | 44.10                    | 66.63                         | 74                     | -7.37          | PK               |
| V                   | 15870.084          | 43.28                      | 10.12                 | 38.80                     | 42.70                    | 49.50                         | 54                     | -4.50          | AV               |
| H                   | 4434.177           | 64.90                      | 5.94                  | 35.18                     | 44.00                    | 62.02                         | 68.2                   | -6.18          | PK               |
| H                   | 4434.177           | 43.56                      | 5.94                  | 35.18                     | 44.00                    | 40.68                         | 54                     | -13.32         | AV               |
| H                   | 10580.153          | 51.22                      | 8.46                  | 38.71                     | 44.50                    | 53.89                         | 68.2                   | -14.31         | PK               |
| H                   | 10580.153          | 43.31                      | 8.46                  | 38.71                     | 44.50                    | 45.98                         | 54                     | -8.02          | AV               |
| H                   | 15870.054          | 54.33                      | 10.12                 | 38.38                     | 44.10                    | 58.73                         | 74                     | -15.27         | PK               |
| H                   | 15870.054          | 40.63                      | 10.12                 | 38.38                     | 44.10                    | 45.03                         | 54                     | -8.97          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                    |
|------------|--------------------|
| Test Mode: | TX(5.6G) - 802.11a |
|------------|--------------------|

| Polar (H/V)                               | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor dB/m | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-------------------------------------------|-----------------|----------------------|-----------------|---------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5500 MHz)-Above 1G</b>    |                 |                      |                 |                     |                    |                         |                 |             |               |
| V                                         | 4434.162        | 60.05                | 5.94            | 35.40               | 44.00              | 57.39                   | 68.2            | -10.81      | PK            |
| V                                         | 4434.162        | 43.99                | 5.94            | 35.40               | 44.00              | 41.33                   | 54              | -12.67      | AV            |
| V                                         | 11000.007       | 62.69                | 8.46            | 39.75               | 44.50              | 66.40                   | 68.2            | -1.80       | PK            |
| V                                         | 11000.007       | 43.95                | 8.46            | 39.75               | 44.50              | 47.66                   | 54              | -6.34       | AV            |
| V                                         | 16500.139       | 62.27                | 10.12           | 38.80               | 44.10              | 67.09                   | 74              | -6.91       | PK            |
| V                                         | 16500.139       | 43.18                | 10.12           | 38.80               | 42.70              | 49.40                   | 54              | -4.60       | AV            |
| H                                         | 4434.134        | 63.84                | 5.94            | 35.18               | 44.00              | 60.96                   | 68.2            | -7.24       | PK            |
| H                                         | 4434.134        | 43.33                | 5.94            | 35.18               | 44.00              | 40.45                   | 54              | -13.55      | AV            |
| H                                         | 11000.164       | 53.20                | 8.46            | 38.71               | 44.50              | 55.87                   | 68.2            | -12.33      | PK            |
| H                                         | 11000.164       | 43.41                | 8.46            | 38.71               | 44.50              | 46.08                   | 54              | -7.92       | AV            |
| H                                         | 16500.045       | 54.46                | 10.12           | 38.38               | 44.10              | 58.86                   | 74              | -15.14      | PK            |
| H                                         | 16500.045       | 42.27                | 10.12           | 38.38               | 44.10              | 46.67                   | 54              | -7.33       | AV            |
| <b>Middle Channel (5600 MHz)-Above 1G</b> |                 |                      |                 |                     |                    |                         |                 |             |               |
| V                                         | 4592.031        | 60.96                | 6.48            | 36.35               | 44.05              | 59.74                   | 74              | -14.26      | PK            |
| V                                         | 4592.031        | 43.78                | 6.48            | 36.35               | 44.05              | 42.56                   | 54              | -11.44      | AV            |
| V                                         | 11200.128       | 62.05                | 8.47            | 37.88               | 44.51              | 63.89                   | 68.2            | -4.31       | PK            |
| V                                         | 11200.128       | 43.95                | 8.47            | 37.88               | 44.51              | 45.79                   | 54              | -8.21       | AV            |
| V                                         | 16800.133       | 64.60                | 10.12           | 38.80               | 44.10              | 69.42                   | 74              | -4.58       | PK            |
| V                                         | 16800.133       | 43.53                | 10.12           | 38.80               | 42.70              | 49.75                   | 54              | -4.25       | AV            |
| H                                         | 4592.162        | 62.55                | 6.48            | 36.37               | 44.05              | 61.35                   | 74              | -12.65      | PK            |
| H                                         | 4592.162        | 43.58                | 6.48            | 36.37               | 44.05              | 42.38                   | 54              | -11.62      | AV            |
| H                                         | 11200.085       | 51.18                | 8.47            | 38.64               | 44.50              | 53.79                   | 68.2            | -14.41      | PK            |
| H                                         | 11200.085       | 40.04                | 8.47            | 38.64               | 44.50              | 42.65                   | 54              | -11.35      | AV            |
| H                                         | 16800.107       | 54.59                | 10.12           | 38.38               | 44.10              | 58.99                   | 74              | -15.01      | PK            |
| H                                         | 16800.107       | 44.42                | 10.12           | 38.38               | 44.10              | 48.82                   | 54              | -5.18       | AV            |
| <b>High Channel (5700 MHz)-Above 1G</b>   |                 |                      |                 |                     |                    |                         |                 |             |               |
| V                                         | 4739.140        | 60.29                | 7.10            | 37.24               | 43.50              | 61.13                   | 74              | -12.87      | PK            |
| V                                         | 4739.140        | 43.73                | 7.10            | 37.24               | 43.50              | 44.57                   | 54              | -9.43       | AV            |
| V                                         | 11400.039       | 64.52                | 8.46            | 37.68               | 44.50              | 66.16                   | 68.2            | -2.04       | PK            |
| V                                         | 11400.039       | 43.86                | 8.46            | 37.68               | 44.50              | 45.50                   | 54              | -8.50       | AV            |
| V                                         | 17100.185       | 62.04                | 10.12           | 38.80               | 44.10              | 66.86                   | 74              | -7.14       | PK            |
| V                                         | 17100.185       | 43.27                | 10.12           | 38.80               | 42.70              | 49.49                   | 54              | -4.51       | AV            |
| H                                         | 4739.165        | 64.43                | 7.10            | 37.24               | 43.50              | 65.27                   | 74              | -8.73       | PK            |
| H                                         | 4739.165        | 43.62                | 7.10            | 37.24               | 43.50              | 44.46                   | 54              | -9.54       | AV            |
| H                                         | 11400.084       | 53.57                | 8.46            | 38.57               | 44.50              | 56.10                   | 68.2            | -12.10      | PK            |
| H                                         | 11400.084       | 44.67                | 8.46            | 38.57               | 44.50              | 47.20                   | 54              | -6.80       | AV            |
| H                                         | 17100.029       | 50.95                | 10.12           | 38.38               | 44.10              | 55.35                   | 74              | -18.65      | PK            |
| H                                         | 17100.029       | 43.45                | 10.12           | 38.38               | 44.10              | 47.85                   | 54              | -6.15       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

The worst case is Antenna A.

|            |                         |
|------------|-------------------------|
| Test Mode: | TX(5.6G) - 802.11n-HT20 |
|------------|-------------------------|

| Polar (H/V)                               | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-------------------------------------------|-----------------|----------------------|-----------------|-----------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5500 MHz)-Above 1G</b>    |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4434.144        | 63.36                | 5.94            | 35.40                 | 44.00              | 60.70                   | 68.2            | -7.50       | PK            |
| V                                         | 4434.144        | 43.35                | 5.94            | 35.40                 | 44.00              | 40.69                   | 54              | -13.31      | AV            |
| V                                         | 11000.057       | 62.37                | 8.46            | 39.75                 | 44.50              | 66.08                   | 68.2            | -2.12       | PK            |
| V                                         | 11000.057       | 43.06                | 8.46            | 39.75                 | 44.50              | 46.77                   | 54              | -7.23       | AV            |
| V                                         | 16500.136       | 62.35                | 10.12           | 38.80                 | 44.10              | 67.17                   | 74              | -6.83       | PK            |
| V                                         | 16500.136       | 43.74                | 10.12           | 38.80                 | 42.70              | 49.96                   | 54              | -4.04       | AV            |
| H                                         | 4434.188        | 63.93                | 5.94            | 35.18                 | 44.00              | 61.05                   | 68.2            | -7.15       | PK            |
| H                                         | 4434.188        | 43.32                | 5.94            | 35.18                 | 44.00              | 40.44                   | 54              | -13.56      | AV            |
| H                                         | 11000.096       | 50.62                | 8.46            | 38.71                 | 44.50              | 53.29                   | 68.2            | -14.91      | PK            |
| H                                         | 11000.096       | 44.60                | 8.46            | 38.71                 | 44.50              | 47.27                   | 54              | -6.73       | AV            |
| H                                         | 16500.126       | 53.91                | 10.12           | 38.38                 | 44.10              | 58.31                   | 74              | -15.69      | PK            |
| H                                         | 16500.126       | 40.99                | 10.12           | 38.38                 | 44.10              | 45.39                   | 54              | -8.61       | AV            |
| <b>Middle Channel (5600 MHz)-Above 1G</b> |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4592.058        | 60.35                | 6.48            | 36.35                 | 44.05              | 59.13                   | 74              | -14.87      | PK            |
| V                                         | 4592.058        | 43.26                | 6.48            | 36.35                 | 44.05              | 42.04                   | 54              | -11.96      | AV            |
| V                                         | 11200.165       | 61.15                | 8.47            | 37.88                 | 44.51              | 62.99                   | 68.2            | -5.21       | PK            |
| V                                         | 11200.165       | 43.36                | 8.47            | 37.88                 | 44.51              | 45.20                   | 54              | -8.80       | AV            |
| V                                         | 16800.012       | 63.17                | 10.12           | 38.80                 | 44.10              | 67.99                   | 74              | -6.01       | PK            |
| V                                         | 16800.012       | 43.29                | 10.12           | 38.80                 | 42.70              | 49.51                   | 54              | -4.49       | AV            |
| H                                         | 4592.029        | 64.45                | 6.48            | 36.37                 | 44.05              | 63.25                   | 74              | -10.75      | PK            |
| H                                         | 4592.029        | 43.01                | 6.48            | 36.37                 | 44.05              | 41.81                   | 54              | -12.19      | AV            |
| H                                         | 11200.106       | 53.48                | 8.47            | 38.64                 | 44.50              | 56.09                   | 68.2            | -12.11      | PK            |
| H                                         | 11200.106       | 43.83                | 8.47            | 38.64                 | 44.50              | 46.44                   | 54              | -7.56       | AV            |
| H                                         | 16800.093       | 52.08                | 10.12           | 38.38                 | 44.10              | 56.48                   | 74              | -17.52      | PK            |
| H                                         | 16800.093       | 42.54                | 10.12           | 38.38                 | 44.10              | 46.94                   | 54              | -7.06       | AV            |
| <b>High Channel (5700 MHz)-Above 1G</b>   |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4739.129        | 63.93                | 7.10            | 37.24                 | 43.50              | 64.77                   | 74              | -9.23       | PK            |
| V                                         | 4739.129        | 43.41                | 7.10            | 37.24                 | 43.50              | 44.25                   | 54              | -9.75       | AV            |
| V                                         | 11400.105       | 64.07                | 8.46            | 37.68                 | 44.50              | 65.71                   | 68.2            | -2.49       | PK            |
| V                                         | 11400.105       | 43.36                | 8.46            | 37.68                 | 44.50              | 45.00                   | 54              | -9.00       | AV            |
| V                                         | 17100.144       | 64.58                | 10.12           | 38.80                 | 44.10              | 69.40                   | 74              | -4.60       | PK            |
| V                                         | 17100.144       | 43.50                | 10.12           | 38.80                 | 42.70              | 49.72                   | 54              | -4.28       | AV            |
| H                                         | 4739.147        | 61.22                | 7.10            | 37.24                 | 43.50              | 62.06                   | 74              | -11.94      | PK            |
| H                                         | 4739.147        | 43.05                | 7.10            | 37.24                 | 43.50              | 43.89                   | 54              | -10.11      | AV            |
| H                                         | 11400.166       | 51.53                | 8.46            | 38.57                 | 44.50              | 54.06                   | 68.2            | -14.14      | PK            |
| H                                         | 11400.166       | 44.67                | 8.46            | 38.57                 | 44.50              | 47.20                   | 54              | -6.80       | AV            |
| H                                         | 17100.188       | 51.37                | 10.12           | 38.38                 | 44.10              | 55.77                   | 74              | -18.23      | PK            |
| H                                         | 17100.188       | 43.55                | 10.12           | 38.38                 | 44.10              | 47.95                   | 54              | -6.05       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                         |
|------------|-------------------------|
| Test Mode: | TX(5.6G) - 802.11n-HT40 |
|------------|-------------------------|

| Polar (H/V)                               | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-------------------------------------------|-----------------|----------------------|-----------------|-----------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5510 MHz)-Above 1G</b>    |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4434.168        | 63.51                | 5.94            | 35.40                 | 44.00              | 60.85                   | 68.2            | -7.35       | PK            |
| V                                         | 4434.168        | 43.40                | 5.94            | 35.40                 | 44.00              | 40.74                   | 54              | -13.26      | AV            |
| V                                         | 11020.193       | 61.72                | 8.46            | 39.75                 | 44.50              | 65.43                   | 68.2            | -2.77       | PK            |
| V                                         | 11020.193       | 43.54                | 8.46            | 39.75                 | 44.50              | 47.25                   | 54              | -6.75       | AV            |
| V                                         | 16530.047       | 62.43                | 10.12           | 38.80                 | 44.10              | 67.25                   | 74              | -6.75       | PK            |
| V                                         | 16530.047       | 43.80                | 10.12           | 38.80                 | 42.70              | 50.02                   | 54              | -3.98       | AV            |
| H                                         | 4434.140        | 63.87                | 5.94            | 35.18                 | 44.00              | 60.99                   | 68.2            | -7.21       | PK            |
| H                                         | 4434.140        | 43.37                | 5.94            | 35.18                 | 44.00              | 40.49                   | 54              | -13.51      | AV            |
| H                                         | 11020.003       | 54.09                | 8.46            | 38.71                 | 44.50              | 56.76                   | 68.2            | -11.44      | PK            |
| H                                         | 11020.003       | 40.78                | 8.46            | 38.71                 | 44.50              | 43.45                   | 54              | -10.55      | AV            |
| H                                         | 16530.160       | 52.85                | 10.12           | 38.38                 | 44.10              | 57.25                   | 74              | -16.75      | PK            |
| H                                         | 16530.160       | 41.33                | 10.12           | 38.38                 | 44.10              | 45.73                   | 54              | -8.27       | AV            |
| <b>Middle Channel (5590 MHz)-Above 1G</b> |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4592.045        | 60.71                | 6.48            | 36.35                 | 44.05              | 59.49                   | 74              | -14.51      | PK            |
| V                                         | 4592.045        | 43.28                | 6.48            | 36.35                 | 44.05              | 42.06                   | 54              | -11.94      | AV            |
| V                                         | 11180.158       | 62.67                | 8.47            | 37.88                 | 44.51              | 64.51                   | 68.2            | -3.69       | PK            |
| V                                         | 11180.158       | 43.31                | 8.47            | 37.88                 | 44.51              | 45.15                   | 54              | -8.85       | AV            |
| V                                         | 16770.190       | 60.43                | 10.12           | 38.80                 | 44.10              | 65.25                   | 74              | -8.75       | PK            |
| V                                         | 16770.190       | 43.55                | 10.12           | 38.80                 | 42.70              | 49.77                   | 54              | -4.23       | AV            |
| H                                         | 4592.104        | 63.12                | 6.48            | 36.37                 | 44.05              | 61.92                   | 74              | -12.08      | PK            |
| H                                         | 4592.104        | 43.43                | 6.48            | 36.37                 | 44.05              | 42.23                   | 54              | -11.77      | AV            |
| H                                         | 11180.066       | 50.13                | 8.47            | 38.64                 | 44.50              | 52.74                   | 68.2            | -15.46      | PK            |
| H                                         | 11180.066       | 43.40                | 8.47            | 38.64                 | 44.50              | 46.01                   | 54              | -7.99       | AV            |
| H                                         | 16770.128       | 54.24                | 10.12           | 38.38                 | 44.10              | 58.64                   | 74              | -15.36      | PK            |
| H                                         | 16770.128       | 42.13                | 10.12           | 38.38                 | 44.10              | 46.53                   | 54              | -7.47       | AV            |
| <b>High Channel (5670 MHz)-Above 1G</b>   |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4739.007        | 64.35                | 7.10            | 37.24                 | 43.50              | 65.19                   | 74              | -8.81       | PK            |
| V                                         | 4739.007        | 43.73                | 7.10            | 37.24                 | 43.50              | 44.57                   | 54              | -9.43       | AV            |
| V                                         | 11340.030       | 61.48                | 8.46            | 37.68                 | 44.50              | 63.12                   | 68.2            | -5.08       | PK            |
| V                                         | 11340.030       | 43.06                | 8.46            | 37.68                 | 44.50              | 44.70                   | 54              | -9.30       | AV            |
| V                                         | 17010.194       | 62.13                | 10.12           | 38.80                 | 44.10              | 66.95                   | 74              | -7.05       | PK            |
| V                                         | 17010.194       | 43.23                | 10.12           | 38.80                 | 42.70              | 49.45                   | 54              | -4.55       | AV            |
| H                                         | 4739.078        | 62.11                | 7.10            | 37.24                 | 43.50              | 62.95                   | 74              | -11.05      | PK            |
| H                                         | 4739.078        | 43.26                | 7.10            | 37.24                 | 43.50              | 44.10                   | 54              | -9.90       | AV            |
| H                                         | 11340.006       | 51.38                | 8.46            | 38.57                 | 44.50              | 53.91                   | 68.2            | -14.29      | PK            |
| H                                         | 11340.006       | 42.33                | 8.46            | 38.57                 | 44.50              | 44.86                   | 54              | -9.14       | AV            |
| H                                         | 17010.135       | 53.37                | 10.12           | 38.38                 | 44.10              | 57.77                   | 74              | -16.23      | PK            |
| H                                         | 17010.135       | 40.76                | 10.12           | 38.38                 | 44.10              | 45.16                   | 54              | -8.84       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.6G) - 802.11ac-HT20 |
|------------|--------------------------|

| Polar (H/V)                               | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-------------------------------------------|-----------------|----------------------|-----------------|-----------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5500 MHz)-Above 1G</b>    |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4434.031        | 64.15                | 5.94            | 35.40                 | 44.00              | 61.49                   | 68.2            | -6.71       | PK            |
| V                                         | 4434.031        | 43.77                | 5.94            | 35.40                 | 44.00              | 41.11                   | 54              | -12.89      | AV            |
| V                                         | 11000.037       | 61.94                | 8.46            | 39.75                 | 44.50              | 65.65                   | 68.2            | -2.55       | PK            |
| V                                         | 11000.037       | 43.53                | 8.46            | 39.75                 | 44.50              | 47.24                   | 54              | -6.76       | AV            |
| V                                         | 16500.163       | 61.27                | 10.12           | 38.80                 | 44.10              | 66.09                   | 74              | -7.91       | PK            |
| V                                         | 16500.163       | 43.71                | 10.12           | 38.80                 | 42.70              | 49.93                   | 54              | -4.07       | AV            |
| H                                         | 4434.115        | 64.81                | 5.94            | 35.18                 | 44.00              | 61.93                   | 68.2            | -6.27       | PK            |
| H                                         | 4434.115        | 43.09                | 5.94            | 35.18                 | 44.00              | 40.21                   | 54              | -13.79      | AV            |
| H                                         | 11000.200       | 54.25                | 8.46            | 38.71                 | 44.50              | 56.92                   | 68.2            | -11.28      | PK            |
| H                                         | 11000.200       | 44.11                | 8.46            | 38.71                 | 44.50              | 46.78                   | 54              | -7.22       | AV            |
| H                                         | 16500.141       | 52.66                | 10.12           | 38.38                 | 44.10              | 57.06                   | 74              | -16.94      | PK            |
| H                                         | 16500.141       | 43.83                | 10.12           | 38.38                 | 44.10              | 48.23                   | 54              | -5.77       | AV            |
| <b>Middle Channel (5600 MHz)-Above 1G</b> |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4592.133        | 62.98                | 6.48            | 36.35                 | 44.05              | 61.76                   | 74              | -12.24      | PK            |
| V                                         | 4592.133        | 43.41                | 6.48            | 36.35                 | 44.05              | 42.19                   | 54              | -11.81      | AV            |
| V                                         | 11200.078       | 61.41                | 8.47            | 37.88                 | 44.51              | 63.25                   | 68.2            | -4.95       | PK            |
| V                                         | 11200.078       | 43.64                | 8.47            | 37.88                 | 44.51              | 45.48                   | 54              | -8.52       | AV            |
| V                                         | 16800.138       | 63.31                | 10.12           | 38.80                 | 44.10              | 68.13                   | 74              | -5.87       | PK            |
| V                                         | 16800.138       | 43.33                | 10.12           | 38.80                 | 42.70              | 49.55                   | 54              | -4.45       | AV            |
| H                                         | 4592.128        | 61.71                | 6.48            | 36.37                 | 44.05              | 60.51                   | 74              | -13.49      | PK            |
| H                                         | 4592.128        | 43.12                | 6.48            | 36.37                 | 44.05              | 41.92                   | 54              | -12.08      | AV            |
| H                                         | 11200.112       | 51.90                | 8.47            | 38.64                 | 44.50              | 54.51                   | 68.2            | -13.69      | PK            |
| H                                         | 11200.112       | 44.70                | 8.47            | 38.64                 | 44.50              | 47.31                   | 54              | -6.69       | AV            |
| H                                         | 16800.159       | 52.75                | 10.12           | 38.38                 | 44.10              | 57.15                   | 74              | -16.85      | PK            |
| H                                         | 16800.159       | 44.83                | 10.12           | 38.38                 | 44.10              | 49.23                   | 54              | -4.77       | AV            |
| <b>High Channel (5700 MHz)-Above 1G</b>   |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4739.164        | 60.42                | 7.10            | 37.24                 | 43.50              | 61.26                   | 74              | -12.74      | PK            |
| V                                         | 4739.164        | 43.95                | 7.10            | 37.24                 | 43.50              | 44.79                   | 54              | -9.21       | AV            |
| V                                         | 11400.008       | 62.16                | 8.46            | 37.68                 | 44.50              | 63.80                   | 68.2            | -4.40       | PK            |
| V                                         | 11400.008       | 43.36                | 8.46            | 37.68                 | 44.50              | 45.00                   | 54              | -9.00       | AV            |
| V                                         | 17100.075       | 60.04                | 10.12           | 38.80                 | 44.10              | 64.86                   | 74              | -9.14       | PK            |
| V                                         | 17100.075       | 43.67                | 10.12           | 38.80                 | 42.70              | 49.89                   | 54              | -4.11       | AV            |
| H                                         | 4739.008        | 62.83                | 7.10            | 37.24                 | 43.50              | 63.67                   | 74              | -10.33      | PK            |
| H                                         | 4739.008        | 43.43                | 7.10            | 37.24                 | 43.50              | 44.27                   | 54              | -9.73       | AV            |
| H                                         | 11400.150       | 54.43                | 8.46            | 38.57                 | 44.50              | 56.96                   | 68.2            | -11.24      | PK            |
| H                                         | 11400.150       | 40.20                | 8.46            | 38.57                 | 44.50              | 42.73                   | 54              | -11.27      | AV            |
| H                                         | 17100.009       | 50.38                | 10.12           | 38.38                 | 44.10              | 54.78                   | 74              | -19.22      | PK            |
| H                                         | 17100.009       | 41.42                | 10.12           | 38.38                 | 44.10              | 45.82                   | 54              | -8.18       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.6G) - 802.11ac-HT40 |
|------------|--------------------------|

| Polar (H/V)                               | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-------------------------------------------|-----------------|----------------------|-----------------|-----------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5510 MHz)-Above 1G</b>    |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4434.039        | 62.09                | 5.94            | 35.40                 | 44.00              | 59.43                   | 68.2            | -8.77       | PK            |
| V                                         | 4434.039        | 43.58                | 5.94            | 35.40                 | 44.00              | 40.92                   | 54              | -13.08      | AV            |
| V                                         | 11020.075       | 61.19                | 8.46            | 39.75                 | 44.50              | 64.90                   | 68.2            | -3.30       | PK            |
| V                                         | 11020.075       | 43.07                | 8.46            | 39.75                 | 44.50              | 46.78                   | 54              | -7.22       | AV            |
| V                                         | 16530.185       | 63.83                | 10.12           | 38.80                 | 44.10              | 68.65                   | 74              | -5.35       | PK            |
| V                                         | 16530.185       | 43.05                | 10.12           | 38.80                 | 42.70              | 49.27                   | 54              | -4.73       | AV            |
| H                                         | 4434.091        | 63.78                | 5.94            | 35.18                 | 44.00              | 60.90                   | 68.2            | -7.30       | PK            |
| H                                         | 4434.091        | 43.74                | 5.94            | 35.18                 | 44.00              | 40.86                   | 54              | -13.14      | AV            |
| H                                         | 11020.040       | 54.12                | 8.46            | 38.71                 | 44.50              | 56.79                   | 68.2            | -11.41      | PK            |
| H                                         | 11020.040       | 43.90                | 8.46            | 38.71                 | 44.50              | 46.57                   | 54              | -7.43       | AV            |
| H                                         | 16530.012       | 53.99                | 10.12           | 38.38                 | 44.10              | 58.39                   | 74              | -15.61      | PK            |
| H                                         | 16530.012       | 40.41                | 10.12           | 38.38                 | 44.10              | 44.81                   | 54              | -9.19       | AV            |
| <b>Middle Channel (5590 MHz)-Above 1G</b> |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4592.137        | 63.20                | 6.48            | 36.35                 | 44.05              | 61.98                   | 74              | -12.02      | PK            |
| V                                         | 4592.137        | 43.55                | 6.48            | 36.35                 | 44.05              | 42.33                   | 54              | -11.67      | AV            |
| V                                         | 11180.047       | 60.53                | 8.47            | 37.88                 | 44.51              | 62.37                   | 68.2            | -5.83       | PK            |
| V                                         | 11180.047       | 43.80                | 8.47            | 37.88                 | 44.51              | 45.64                   | 54              | -8.36       | AV            |
| V                                         | 16770.095       | 63.05                | 10.12           | 38.80                 | 44.10              | 67.87                   | 74              | -6.13       | PK            |
| V                                         | 16770.095       | 43.39                | 10.12           | 38.80                 | 42.70              | 49.61                   | 54              | -4.39       | AV            |
| H                                         | 4592.011        | 63.45                | 6.48            | 36.37                 | 44.05              | 62.25                   | 74              | -11.75      | PK            |
| H                                         | 4592.011        | 43.24                | 6.48            | 36.37                 | 44.05              | 42.04                   | 54              | -11.96      | AV            |
| H                                         | 11180.136       | 51.43                | 8.47            | 38.64                 | 44.50              | 54.04                   | 68.2            | -14.16      | PK            |
| H                                         | 11180.136       | 40.25                | 8.47            | 38.64                 | 44.50              | 42.86                   | 54              | -11.14      | AV            |
| H                                         | 16770.180       | 51.54                | 10.12           | 38.38                 | 44.10              | 55.94                   | 74              | -18.06      | PK            |
| H                                         | 16770.180       | 40.13                | 10.12           | 38.38                 | 44.10              | 44.53                   | 54              | -9.47       | AV            |
| <b>High Channel (5670 MHz)-Above 1G</b>   |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4739.084        | 63.44                | 7.10            | 37.24                 | 43.50              | 64.28                   | 74              | -9.72       | PK            |
| V                                         | 4739.084        | 43.71                | 7.10            | 37.24                 | 43.50              | 44.55                   | 54              | -9.45       | AV            |
| V                                         | 11340.176       | 64.53                | 8.46            | 37.68                 | 44.50              | 66.17                   | 68.2            | -2.03       | PK            |
| V                                         | 11340.176       | 43.77                | 8.46            | 37.68                 | 44.50              | 45.41                   | 54              | -8.59       | AV            |
| V                                         | 17010.157       | 61.78                | 10.12           | 38.80                 | 44.10              | 66.60                   | 74              | -7.40       | PK            |
| V                                         | 17010.157       | 43.14                | 10.12           | 38.80                 | 42.70              | 49.36                   | 54              | -4.64       | AV            |
| H                                         | 4739.198        | 64.80                | 7.10            | 37.24                 | 43.50              | 65.64                   | 74              | -8.36       | PK            |
| H                                         | 4739.198        | 43.71                | 7.10            | 37.24                 | 43.50              | 44.55                   | 54              | -9.45       | AV            |
| H                                         | 11340.109       | 52.82                | 8.46            | 38.57                 | 44.50              | 55.35                   | 68.2            | -12.85      | PK            |
| H                                         | 11340.109       | 41.73                | 8.46            | 38.57                 | 44.50              | 44.26                   | 54              | -9.74       | AV            |
| H                                         | 17010.113       | 52.87                | 10.12           | 38.38                 | 44.10              | 57.27                   | 74              | -16.73      | PK            |
| H                                         | 17010.113       | 44.14                | 10.12           | 38.38                 | 44.10              | 48.54                   | 54              | -5.46       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.6G) - 802.11ac-HT80 |
|------------|--------------------------|

| Polar (H/V)                             | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-----------------------------------------|-----------------|----------------------|-----------------|-----------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5530 MHz)-Above 1G</b>  |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                       | 4434.048        | 60.36                | 5.94            | 35.40                 | 44.00              | 57.70                   | 68.2            | -10.50      | PK            |
| V                                       | 4434.048        | 43.46                | 5.94            | 35.40                 | 44.00              | 40.80                   | 54              | -13.20      | AV            |
| V                                       | 11060.178       | 61.64                | 8.46            | 39.75                 | 44.50              | 65.35                   | 68.2            | -2.85       | PK            |
| V                                       | 11060.178       | 43.34                | 8.46            | 39.75                 | 44.50              | 47.05                   | 54              | -6.95       | AV            |
| V                                       | 16590.195       | 60.16                | 10.12           | 38.80                 | 44.10              | 64.98                   | 74              | -9.02       | PK            |
| V                                       | 16590.195       | 43.53                | 10.12           | 38.80                 | 42.70              | 49.75                   | 54              | -4.25       | AV            |
| H                                       | 4434.179        | 64.90                | 5.94            | 35.18                 | 44.00              | 62.02                   | 74              | -11.98      | PK            |
| H                                       | 4434.179        | 43.55                | 5.94            | 35.18                 | 44.00              | 40.67                   | 54              | -13.33      | AV            |
| H                                       | 11060.181       | 51.64                | 8.46            | 38.71                 | 44.50              | 54.31                   | 68.2            | -13.89      | PK            |
| H                                       | 11060.181       | 44.85                | 8.46            | 38.71                 | 44.50              | 47.52                   | 54              | -6.48       | AV            |
| H                                       | 16590.102       | 53.57                | 10.12           | 38.38                 | 44.10              | 57.97                   | 74              | -16.03      | PK            |
| H                                       | 16590.102       | 44.40                | 10.12           | 38.38                 | 44.10              | 48.80                   | 54              | -5.20       | AV            |
| <b>High Channel (5610 MHz)-Above 1G</b> |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                       | 4739.101        | 62.42                | 6.48            | 36.35                 | 44.05              | 61.20                   | 68.2            | -7.00       | PK            |
| V                                       | 4739.101        | 43.77                | 6.48            | 36.35                 | 44.05              | 42.55                   | 54              | -11.45      | AV            |
| V                                       | 11220.187       | 60.27                | 8.47            | 37.88                 | 44.51              | 62.11                   | 68.2            | -6.09       | PK            |
| V                                       | 11220.187       | 43.16                | 8.47            | 37.88                 | 44.51              | 45.00                   | 54              | -9.00       | AV            |
| V                                       | 16830.060       | 61.89                | 10.12           | 38.80                 | 44.10              | 66.71                   | 74              | -7.29       | PK            |
| V                                       | 16830.060       | 43.87                | 10.12           | 38.80                 | 42.70              | 50.09                   | 54              | -3.91       | AV            |
| H                                       | 4739.129        | 61.92                | 6.48            | 36.37                 | 44.05              | 60.72                   | 68.2            | -7.48       | PK            |
| H                                       | 4739.129        | 43.02                | 6.48            | 36.37                 | 44.05              | 41.82                   | 54              | -12.18      | AV            |
| H                                       | 11220.104       | 50.33                | 8.47            | 38.64                 | 44.50              | 52.94                   | 68.2            | -15.26      | PK            |
| H                                       | 11220.104       | 42.53                | 8.47            | 38.64                 | 44.50              | 45.14                   | 54              | -8.86       | AV            |
| H                                       | 16830.158       | 51.55                | 10.12           | 38.38                 | 44.10              | 55.95                   | 74              | -18.05      | PK            |
| H                                       | 16830.158       | 42.63                | 10.12           | 38.38                 | 44.10              | 47.03                   | 54              | -6.97       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                    |
|------------|--------------------|
| Test Mode: | TX(5.8G) - 802.11a |
|------------|--------------------|

| Polar (H/V)                               | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-------------------------------------------|-----------------|----------------------|-----------------|-----------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5745 MHz)-Above 1G</b>    |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4679.160        | 59.33                | 5.94            | 35.40                 | 44.00              | 56.67                   | 74              | -17.33      | PK            |
| V                                         | 4679.160        | 43.60                | 5.94            | 35.40                 | 44.00              | 40.94                   | 54              | -13.06      | AV            |
| V                                         | 11490.116       | 56.09                | 8.46            | 39.75                 | 44.50              | 59.80                   | 68.2            | -8.40       | PK            |
| V                                         | 11490.116       | 43.82                | 8.46            | 39.75                 | 44.50              | 47.53                   | 54              | -6.47       | AV            |
| V                                         | 17235.189       | 60.21                | 10.12           | 38.80                 | 44.10              | 65.03                   | 68.2            | -3.17       | PK            |
| V                                         | 17235.189       | 43.22                | 10.12           | 38.80                 | 42.70              | 49.44                   | 54              | -4.56       | AV            |
| H                                         | 4679.033        | 57.58                | 5.94            | 35.18                 | 44.00              | 54.70                   | 74              | -19.30      | PK            |
| H                                         | 4679.033        | 43.26                | 5.94            | 35.18                 | 44.00              | 40.38                   | 54              | -13.62      | AV            |
| H                                         | 11490.046       | 50.66                | 8.46            | 38.71                 | 44.50              | 53.33                   | 68.2            | -14.87      | PK            |
| H                                         | 11490.046       | 40.99                | 8.46            | 38.71                 | 44.50              | 43.66                   | 54              | -10.34      | AV            |
| H                                         | 17235.044       | 51.11                | 10.12           | 38.38                 | 44.10              | 55.51                   | 68.2            | -12.69      | PK            |
| H                                         | 17235.044       | 41.54                | 10.12           | 38.38                 | 44.10              | 45.94                   | 54              | -8.06       | AV            |
| <b>Middle Channel (5785 MHz)-Above 1G</b> |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4592.010        | 57.67                | 6.48            | 36.35                 | 44.05              | 56.45                   | 74              | -17.55      | PK            |
| V                                         | 4592.010        | 43.74                | 6.48            | 36.35                 | 44.05              | 42.52                   | 54              | -11.48      | AV            |
| V                                         | 11570.086       | 58.87                | 8.47            | 37.88                 | 44.51              | 60.71                   | 68.2            | -7.49       | PK            |
| V                                         | 11570.086       | 43.02                | 8.47            | 37.88                 | 44.51              | 44.86                   | 54              | -9.14       | AV            |
| V                                         | 17355.037       | 60.19                | 10.12           | 38.80                 | 44.10              | 65.01                   | 68.2            | -3.19       | PK            |
| V                                         | 17355.037       | 39.95                | 10.12           | 38.80                 | 42.70              | 46.17                   | 54              | -7.83       | AV            |
| H                                         | 4592.098        | 57.15                | 6.48            | 36.37                 | 44.05              | 55.95                   | 74              | -18.05      | PK            |
| H                                         | 4592.098        | 43.08                | 6.48            | 36.37                 | 44.05              | 41.88                   | 54              | -12.12      | AV            |
| H                                         | 11570.122       | 51.79                | 8.47            | 38.64                 | 44.50              | 54.40                   | 68.2            | -13.80      | PK            |
| H                                         | 11570.122       | 41.70                | 8.47            | 38.64                 | 44.50              | 44.31                   | 54              | -9.69       | AV            |
| H                                         | 17355.094       | 53.02                | 10.12           | 38.38                 | 44.10              | 57.42                   | 68.2            | -10.78      | PK            |
| H                                         | 17355.094       | 41.57                | 10.12           | 38.38                 | 44.10              | 45.97                   | 54              | -8.03       | AV            |
| <b>High Channel (5825 MHz)-Above 1G</b>   |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 6039.181        | 57.42                | 7.10            | 37.24                 | 43.50              | 58.26                   | 68.2            | -9.94       | PK            |
| V                                         | 6039.181        | 43.60                | 7.10            | 37.24                 | 43.50              | 44.44                   | 54              | -9.56       | AV            |
| V                                         | 11650.172       | 59.61                | 8.46            | 37.68                 | 44.50              | 61.25                   | 74              | -12.75      | PK            |
| V                                         | 11650.172       | 43.03                | 8.46            | 37.68                 | 44.50              | 44.67                   | 54              | -9.33       | AV            |
| V                                         | 17475.022       | 57.15                | 10.12           | 38.80                 | 44.10              | 61.97                   | 68.2            | -6.23       | PK            |
| V                                         | 17475.022       | 43.35                | 10.12           | 38.80                 | 42.70              | 49.57                   | 54              | -4.43       | AV            |
| H                                         | 6039.166        | 54.13                | 7.10            | 37.24                 | 43.50              | 54.97                   | 68.2            | -13.23      | PK            |
| H                                         | 6039.166        | 43.62                | 7.10            | 37.24                 | 43.50              | 44.46                   | 54              | -9.54       | AV            |
| H                                         | 11650.095       | 51.14                | 8.46            | 38.57                 | 44.50              | 53.67                   | 74              | -20.33      | PK            |
| H                                         | 11650.095       | 41.66                | 8.46            | 38.57                 | 44.50              | 44.19                   | 54              | -9.81       | AV            |
| H                                         | 17475.026       | 52.73                | 10.12           | 38.38                 | 44.10              | 57.13                   | 68.2            | -11.07      | PK            |
| H                                         | 17475.026       | 43.39                | 10.12           | 38.38                 | 44.10              | 47.79                   | 54              | -6.21       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

The worst case is Antenna A.

|            |                         |
|------------|-------------------------|
| Test Mode: | TX(5.8G) - 802.11n-HT20 |
|------------|-------------------------|

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|-------------------------------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|--------------------|----------------|------------------|
| <b>Low Channel (5745 MHz)-Above 1G</b>    |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                         | 4679.014           | 58.89                      | 5.94                  | 35.40                     | 44.00                    | 56.23                         | 74                 | -17.77         | PK               |
| V                                         | 4679.014           | 43.06                      | 5.94                  | 35.40                     | 44.00                    | 40.40                         | 54                 | -13.60         | AV               |
| V                                         | 11490.176          | 53.10                      | 8.46                  | 39.75                     | 44.50                    | 56.81                         | 68.2               | -11.39         | PK               |
| V                                         | 11490.176          | 43.60                      | 8.46                  | 39.75                     | 44.50                    | 47.31                         | 54                 | -6.69          | AV               |
| V                                         | 17235.172          | 60.75                      | 10.12                 | 38.80                     | 44.10                    | 65.57                         | 68.2               | -2.63          | PK               |
| V                                         | 17235.172          | 43.99                      | 10.12                 | 38.80                     | 42.70                    | 50.21                         | 54                 | -3.79          | AV               |
| H                                         | 4679.069           | 59.43                      | 5.94                  | 35.18                     | 44.00                    | 56.55                         | 74                 | -17.45         | PK               |
| H                                         | 4679.069           | 43.37                      | 5.94                  | 35.18                     | 44.00                    | 40.49                         | 54                 | -13.51         | AV               |
| H                                         | 11490.107          | 47.23                      | 8.46                  | 38.71                     | 44.50                    | 49.90                         | 68.2               | -18.30         | PK               |
| H                                         | 11490.107          | 43.09                      | 8.46                  | 38.71                     | 44.50                    | 45.76                         | 54                 | -8.24          | AV               |
| H                                         | 17235.184          | 53.65                      | 10.12                 | 38.38                     | 44.10                    | 58.05                         | 68.2               | -10.15         | PK               |
| H                                         | 17235.184          | 44.38                      | 10.12                 | 38.38                     | 44.10                    | 48.78                         | 54                 | -5.22          | AV               |
| <b>Middle Channel (5785 MHz)-Above 1G</b> |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                         | 4592.185           | 60.13                      | 6.48                  | 36.35                     | 44.05                    | 58.91                         | 74                 | -15.09         | PK               |
| V                                         | 4592.185           | 43.35                      | 6.48                  | 36.35                     | 44.05                    | 42.13                         | 54                 | -11.87         | AV               |
| V                                         | 11570.149          | 57.09                      | 8.47                  | 37.88                     | 44.51                    | 58.93                         | 68.2               | -9.27          | PK               |
| V                                         | 11570.149          | 43.37                      | 8.47                  | 37.88                     | 44.51                    | 45.21                         | 54                 | -8.79          | AV               |
| V                                         | 17355.121          | 61.89                      | 10.12                 | 38.80                     | 44.10                    | 66.71                         | 68.2               | -1.49          | PK               |
| V                                         | 17355.121          | 43.76                      | 10.12                 | 38.80                     | 42.70                    | 49.98                         | 54                 | -4.02          | AV               |
| H                                         | 4592.066           | 60.67                      | 6.48                  | 36.37                     | 44.05                    | 59.47                         | 74                 | -14.53         | PK               |
| H                                         | 4592.066           | 43.81                      | 6.48                  | 36.37                     | 44.05                    | 42.61                         | 54                 | -11.39         | AV               |
| H                                         | 11570.129          | 52.55                      | 8.47                  | 38.64                     | 44.50                    | 55.16                         | 68.2               | -13.04         | PK               |
| H                                         | 11570.129          | 40.65                      | 8.47                  | 38.64                     | 44.50                    | 43.26                         | 54                 | -10.74         | AV               |
| H                                         | 17355.193          | 52.78                      | 10.12                 | 38.38                     | 44.10                    | 57.18                         | 68.2               | -11.02         | PK               |
| H                                         | 17355.193          | 40.37                      | 10.12                 | 38.38                     | 44.10                    | 44.77                         | 54                 | -9.23          | AV               |
| <b>High Channel (5825 MHz)-Above 1G</b>   |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                         | 6039.060           | 57.80                      | 7.10                  | 37.24                     | 43.50                    | 58.64                         | 68.2               | -9.56          | PK               |
| V                                         | 6039.060           | 43.39                      | 7.10                  | 37.24                     | 43.50                    | 44.23                         | 54                 | -9.77          | AV               |
| V                                         | 11650.063          | 57.70                      | 8.46                  | 37.68                     | 44.50                    | 59.34                         | 74                 | -14.66         | PK               |
| V                                         | 11650.063          | 43.89                      | 8.46                  | 37.68                     | 44.50                    | 45.53                         | 54                 | -8.47          | AV               |
| V                                         | 17475.089          | 57.41                      | 10.12                 | 38.80                     | 44.10                    | 62.23                         | 68.2               | -5.97          | PK               |
| V                                         | 17475.089          | 43.21                      | 10.12                 | 38.80                     | 42.70                    | 49.43                         | 54                 | -4.57          | AV               |
| H                                         | 6039.162           | 59.50                      | 7.10                  | 37.24                     | 43.50                    | 60.34                         | 68.2               | -7.86          | PK               |
| H                                         | 6039.162           | 43.12                      | 7.10                  | 37.24                     | 43.50                    | 43.96                         | 54                 | -10.04         | AV               |
| H                                         | 11650.141          | 51.42                      | 8.46                  | 38.57                     | 44.50                    | 53.95                         | 74                 | -20.05         | PK               |
| H                                         | 11650.141          | 44.49                      | 8.46                  | 38.57                     | 44.50                    | 47.02                         | 54                 | -6.98          | AV               |
| H                                         | 17475.128          | 54.37                      | 10.12                 | 38.38                     | 44.10                    | 58.77                         | 68.2               | -9.43          | PK               |
| H                                         | 17475.128          | 41.98                      | 10.12                 | 38.38                     | 44.10                    | 46.38                         | 54                 | -7.62          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                         |
|------------|-------------------------|
| Test Mode: | TX(5.8G) - 802.11n-HT40 |
|------------|-------------------------|

| Polar<br>(H/V)                          | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|-----------------------------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|--------------------|----------------|------------------|
| <b>Low Channel (5755 MHz)-Above 1G</b>  |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                       | 4679.066           | 56.62                      | 5.94                  | 35.40                     | 44.00                    | 53.96                         | 74                 | -20.04         | PK               |
| V                                       | 4679.066           | 43.73                      | 5.94                  | 35.40                     | 44.00                    | 41.07                         | 54                 | -12.93         | AV               |
| V                                       | 11510.081          | 56.72                      | 8.46                  | 39.75                     | 44.50                    | 60.43                         | 74                 | -13.57         | PK               |
| V                                       | 11510.081          | 43.80                      | 8.46                  | 39.75                     | 44.50                    | 47.51                         | 54                 | -6.49          | AV               |
| V                                       | 17265.140          | 58.66                      | 10.12                 | 38.80                     | 44.10                    | 63.48                         | 68.2               | -4.72          | PK               |
| V                                       | 17265.140          | 2.00                       | 10.12                 | 38.80                     | 42.70                    | 8.22                          | 54                 | -45.78         | AV               |
| H                                       | 4679.192           | 59.76                      | 5.94                  | 35.18                     | 44.00                    | 56.88                         | 74                 | -17.12         | PK               |
| H                                       | 4679.192           | 43.72                      | 5.94                  | 35.18                     | 44.00                    | 40.84                         | 54                 | -13.16         | AV               |
| H                                       | 11510.178          | 50.84                      | 8.46                  | 38.71                     | 44.50                    | 53.51                         | 74                 | -20.49         | PK               |
| H                                       | 11510.178          | 41.68                      | 8.46                  | 38.71                     | 44.50                    | 44.35                         | 54                 | -9.65          | AV               |
| H                                       | 17265.172          | 54.88                      | 10.12                 | 38.38                     | 44.10                    | 59.28                         | 68.2               | -8.92          | PK               |
| H                                       | 17265.172          | 41.23                      | 10.12                 | 38.38                     | 44.10                    | 45.63                         | 54                 | -8.37          | AV               |
| <b>High Channel (5795 MHz)-Above 1G</b> |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                                       | 6039.113           | 56.25                      | 6.48                  | 36.35                     | 44.05                    | 55.03                         | 68.2               | -13.17         | PK               |
| V                                       | 6039.113           | 43.33                      | 6.48                  | 36.35                     | 44.05                    | 42.11                         | 54                 | -11.89         | AV               |
| V                                       | 11590.190          | 59.22                      | 8.47                  | 37.88                     | 44.51                    | 61.06                         | 74                 | -12.94         | PK               |
| V                                       | 11590.190          | 43.30                      | 8.47                  | 37.88                     | 44.51                    | 45.14                         | 54                 | -8.86          | AV               |
| V                                       | 17385.150          | 55.56                      | 10.12                 | 38.80                     | 44.10                    | 60.38                         | 68.2               | -7.82          | PK               |
| V                                       | 17385.150          | 41.35                      | 10.12                 | 38.80                     | 42.70                    | 47.57                         | 54                 | -6.43          | AV               |
| H                                       | 6039.037           | 60.93                      | 6.48                  | 36.37                     | 44.05                    | 59.73                         | 68.2               | -8.47          | PK               |
| H                                       | 6039.037           | 43.59                      | 6.48                  | 36.37                     | 44.05                    | 42.39                         | 54                 | -11.61         | AV               |
| H                                       | 11590.075          | 52.83                      | 8.47                  | 38.64                     | 44.50                    | 55.44                         | 74                 | -18.56         | PK               |
| H                                       | 11590.075          | 44.92                      | 8.47                  | 38.64                     | 44.50                    | 47.53                         | 54                 | -6.47          | AV               |
| H                                       | 17385.039          | 54.16                      | 10.12                 | 38.38                     | 44.10                    | 58.56                         | 68.2               | -9.64          | PK               |
| H                                       | 17385.039          | 42.17                      | 10.12                 | 38.38                     | 44.10                    | 46.57                         | 54                 | -7.43          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.8G) - 802.11ac-HT20 |
|------------|--------------------------|

| Polar (H/V)                               | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-------------------------------------------|-----------------|----------------------|-----------------|-----------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5745 MHz)-Above 1G</b>    |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4679.065        | 57.47                | 5.94            | 35.40                 | 44.00              | 54.81                   | 74              | -19.19      | PK            |
| V                                         | 4679.065        | 43.07                | 5.94            | 35.40                 | 44.00              | 40.41                   | 54              | -13.59      | AV            |
| V                                         | 11490.122       | 53.93                | 8.46            | 39.75                 | 44.50              | 57.64                   | 68.2            | -10.56      | PK            |
| V                                         | 11490.122       | 43.34                | 8.46            | 39.75                 | 44.50              | 47.05                   | 54              | -6.95       | AV            |
| V                                         | 17235.138       | 59.95                | 10.12           | 38.80                 | 44.10              | 64.77                   | 68.2            | -3.43       | PK            |
| V                                         | 17235.138       | 43.04                | 10.12           | 38.80                 | 42.70              | 49.26                   | 54              | -4.74       | AV            |
| H                                         | 4679.054        | 59.57                | 5.94            | 35.18                 | 44.00              | 56.69                   | 74              | -17.31      | PK            |
| H                                         | 4679.054        | 43.50                | 5.94            | 35.18                 | 44.00              | 40.62                   | 54              | -13.38      | AV            |
| H                                         | 11490.170       | 50.94                | 8.46            | 38.71                 | 44.50              | 53.61                   | 68.2            | -14.59      | PK            |
| H                                         | 11490.170       | 41.02                | 8.46            | 38.71                 | 44.50              | 43.69                   | 54              | -10.31      | AV            |
| H                                         | 17235.021       | 51.68                | 10.12           | 38.38                 | 44.10              | 56.08                   | 68.2            | -12.12      | PK            |
| H                                         | 17235.021       | 41.43                | 10.12           | 38.38                 | 44.10              | 45.83                   | 54              | -8.17       | AV            |
| <b>Middle Channel (5785 MHz)-Above 1G</b> |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 4592.007        | 61.02                | 6.48            | 36.35                 | 44.05              | 59.80                   | 74              | -14.20      | PK            |
| V                                         | 4592.007        | 43.36                | 6.48            | 36.35                 | 44.05              | 42.14                   | 54              | -11.86      | AV            |
| V                                         | 11570.109       | 56.55                | 8.47            | 37.88                 | 44.51              | 58.39                   | 68.2            | -9.81       | PK            |
| V                                         | 11570.109       | 43.52                | 8.47            | 37.88                 | 44.51              | 45.36                   | 54              | -8.64       | AV            |
| V                                         | 17355.034       | 61.20                | 10.12           | 38.80                 | 44.10              | 66.02                   | 68.2            | -2.18       | PK            |
| V                                         | 17355.034       | 43.58                | 10.12           | 38.80                 | 42.70              | 49.80                   | 54              | -4.20       | AV            |
| H                                         | 4592.160        | 58.56                | 6.48            | 36.37                 | 44.05              | 57.36                   | 74              | -16.64      | PK            |
| H                                         | 4592.160        | 43.77                | 6.48            | 36.37                 | 44.05              | 42.57                   | 54              | -11.43      | AV            |
| H                                         | 11570.154       | 50.91                | 8.47            | 38.64                 | 44.50              | 53.52                   | 68.2            | -14.68      | PK            |
| H                                         | 11570.154       | 42.36                | 8.47            | 38.64                 | 44.50              | 44.97                   | 54              | -9.03       | AV            |
| H                                         | 17355.184       | 52.31                | 10.12           | 38.38                 | 44.10              | 56.71                   | 68.2            | -11.49      | PK            |
| H                                         | 17355.184       | 42.01                | 10.12           | 38.38                 | 44.10              | 46.41                   | 54              | -7.59       | AV            |
| <b>High Channel (5825 MHz)-Above 1G</b>   |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                         | 6039.147        | 55.21                | 7.10            | 37.24                 | 43.50              | 56.05                   | 68.2            | -12.15      | PK            |
| V                                         | 6039.147        | 43.37                | 7.10            | 37.24                 | 43.50              | 44.21                   | 54              | -9.79       | AV            |
| V                                         | 11650.101       | 58.04                | 8.46            | 37.68                 | 44.50              | 59.68                   | 74              | -14.32      | PK            |
| V                                         | 11650.101       | 43.88                | 8.46            | 37.68                 | 44.50              | 45.52                   | 54              | -8.48       | AV            |
| V                                         | 17475.075       | 57.75                | 10.12           | 38.80                 | 44.10              | 62.57                   | 68.2            | -5.63       | PK            |
| V                                         | 17475.075       | 43.96                | 10.12           | 38.80                 | 42.70              | 50.18                   | 54              | -3.82       | AV            |
| H                                         | 6039.195        | 57.94                | 7.10            | 37.24                 | 43.50              | 58.78                   | 68.2            | -9.42       | PK            |
| H                                         | 6039.195        | 43.67                | 7.10            | 37.24                 | 43.50              | 44.51                   | 54              | -9.49       | AV            |
| H                                         | 11650.143       | 54.58                | 8.46            | 38.57                 | 44.50              | 57.11                   | 74              | -16.89      | PK            |
| H                                         | 11650.143       | 43.37                | 8.46            | 38.57                 | 44.50              | 45.90                   | 54              | -8.10       | AV            |
| H                                         | 17475.049       | 50.19                | 10.12           | 38.38                 | 44.10              | 54.59                   | 68.2            | -13.61      | PK            |
| H                                         | 17475.049       | 40.34                | 10.12           | 38.38                 | 44.10              | 44.74                   | 54              | -9.26       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.8G) - 802.11ac-HT40 |
|------------|--------------------------|

| Polar (H/V)                             | Frequency (MHz) | Meter Reading (dBuV) | Cable loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|-----------------------------------------|-----------------|----------------------|-----------------|-----------------------|--------------------|-------------------------|-----------------|-------------|---------------|
| <b>Low Channel (5755 MHz)-Above 1G</b>  |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                       | 4679.134        | 57.27                | 5.94            | 35.40                 | 44.00              | 54.61                   | 74              | -19.39      | PK            |
| V                                       | 4679.134        | 43.95                | 5.94            | 35.40                 | 44.00              | 41.29                   | 54              | -12.71      | AV            |
| V                                       | 11510.030       | 56.74                | 8.46            | 39.75                 | 44.50              | 60.45                   | 74              | -13.55      | PK            |
| V                                       | 11510.030       | 43.48                | 8.46            | 39.75                 | 44.50              | 47.19                   | 54              | -6.81       | AV            |
| V                                       | 17265.149       | 58.27                | 10.12           | 38.80                 | 44.10              | 63.09                   | 68.2            | -5.11       | PK            |
| V                                       | 17265.149       | 2.00                 | 10.12           | 38.80                 | 42.70              | 8.22                    | 54              | -45.78      | AV            |
| H                                       | 4679.083        | 60.10                | 5.94            | 35.18                 | 44.00              | 57.22                   | 74              | -16.78      | PK            |
| H                                       | 4679.083        | 43.55                | 5.94            | 35.18                 | 44.00              | 40.67                   | 54              | -13.33      | AV            |
| H                                       | 11510.027       | 53.42                | 8.46            | 38.71                 | 44.50              | 56.09                   | 74              | -17.91      | PK            |
| H                                       | 11510.027       | 40.36                | 8.46            | 38.71                 | 44.50              | 43.03                   | 54              | -10.97      | AV            |
| H                                       | 17265.124       | 52.21                | 10.12           | 38.38                 | 44.10              | 56.61                   | 68.2            | -11.59      | PK            |
| H                                       | 17265.124       | 44.44                | 10.12           | 38.38                 | 44.10              | 48.84                   | 54              | -5.16       | AV            |
| <b>High Channel (5795 MHz)-Above 1G</b> |                 |                      |                 |                       |                    |                         |                 |             |               |
| V                                       | 6039.138        | 56.35                | 6.48            | 36.35                 | 44.05              | 55.13                   | 68.2            | -13.07      | PK            |
| V                                       | 6039.138        | 43.97                | 6.48            | 36.35                 | 44.05              | 42.75                   | 54              | -11.25      | AV            |
| V                                       | 11590.142       | 58.50                | 8.47            | 37.88                 | 44.51              | 60.34                   | 74              | -13.66      | PK            |
| V                                       | 11590.142       | 43.40                | 8.47            | 37.88                 | 44.51              | 45.24                   | 54              | -8.76       | AV            |
| V                                       | 17385.111       | 55.71                | 10.12           | 38.80                 | 44.10              | 60.53                   | 68.2            | -7.67       | PK            |
| V                                       | 17385.111       | 41.61                | 10.12           | 38.80                 | 42.70              | 47.83                   | 54              | -6.17       | AV            |
| H                                       | 6039.136        | 59.28                | 6.48            | 36.37                 | 44.05              | 58.08                   | 68.2            | -10.12      | PK            |
| H                                       | 6039.136        | 43.14                | 6.48            | 36.37                 | 44.05              | 41.94                   | 54              | -12.06      | AV            |
| H                                       | 11590.068       | 51.98                | 8.47            | 38.64                 | 44.50              | 54.59                   | 74              | -19.41      | PK            |
| H                                       | 11590.068       | 44.71                | 8.47            | 38.64                 | 44.50              | 47.32                   | 54              | -6.68       | AV            |
| H                                       | 17385.044       | 50.46                | 10.12           | 38.38                 | 44.10              | 54.86                   | 68.2            | -13.34      | PK            |
| H                                       | 17385.044       | 42.25                | 10.12           | 38.38                 | 44.10              | 46.65                   | 54              | -7.35       | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.8G) - 802.11ac-HT80 |
|------------|--------------------------|

| Polar<br>(H/V)      | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Cable<br>loss<br>(dB) | Antenna<br>Factor<br>dB/m | Preamp<br>Factor<br>(dB) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|---------------------|--------------------|----------------------------|-----------------------|---------------------------|--------------------------|-------------------------------|--------------------|----------------|------------------|
| (5775 MHz)-Above 1G |                    |                            |                       |                           |                          |                               |                    |                |                  |
| V                   | 4679.078           | 55.55                      | 5.94                  | 35.40                     | 44.00                    | 52.89                         | 74                 | -21.11         | PK               |
| V                   | 4679.078           | 43.78                      | 5.94                  | 35.40                     | 44.00                    | 41.12                         | 54                 | -12.88         | AV               |
| V                   | 11550.066          | 57.13                      | 8.46                  | 39.75                     | 44.50                    | 60.84                         | 74                 | -13.16         | PK               |
| V                   | 11550.066          | 43.72                      | 8.46                  | 39.75                     | 44.50                    | 47.43                         | 54                 | -6.57          | AV               |
| V                   | 17325.105          | 58.63                      | 10.12                 | 38.80                     | 44.10                    | 63.45                         | 68.2               | -4.75          | PK               |
| V                   | 17325.105          | 41.64                      | 10.12                 | 38.80                     | 42.70                    | 47.86                         | 54                 | -6.14          | AV               |
| H                   | 4679.185           | 57.26                      | 5.94                  | 35.18                     | 44.00                    | 54.38                         | 74                 | -19.62         | PK               |
| H                   | 4679.185           | 43.86                      | 5.94                  | 35.18                     | 44.00                    | 40.98                         | 54                 | -13.02         | AV               |
| H                   | 11550.175          | 51.95                      | 8.46                  | 38.71                     | 44.50                    | 54.62                         | 74                 | -19.38         | PK               |
| H                   | 11550.175          | 43.26                      | 8.46                  | 38.71                     | 44.50                    | 45.93                         | 54                 | -8.07          | AV               |
| H                   | 17325.097          | 52.38                      | 10.12                 | 38.38                     | 44.10                    | 56.78                         | 68.2               | -11.42         | PK               |
| H                   | 17325.097          | 41.43                      | 10.12                 | 38.38                     | 44.10                    | 45.83                         | 54                 | -8.17          | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

## 8. Power Spectral Density Test

### 8.1 Block Diagram Of Test Setup



### 8.2 Limit

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 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.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. 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.

(iv) For client devices in the 5.15-5.25 GHz band, 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

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, 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.

### 8.3 Test Procedure

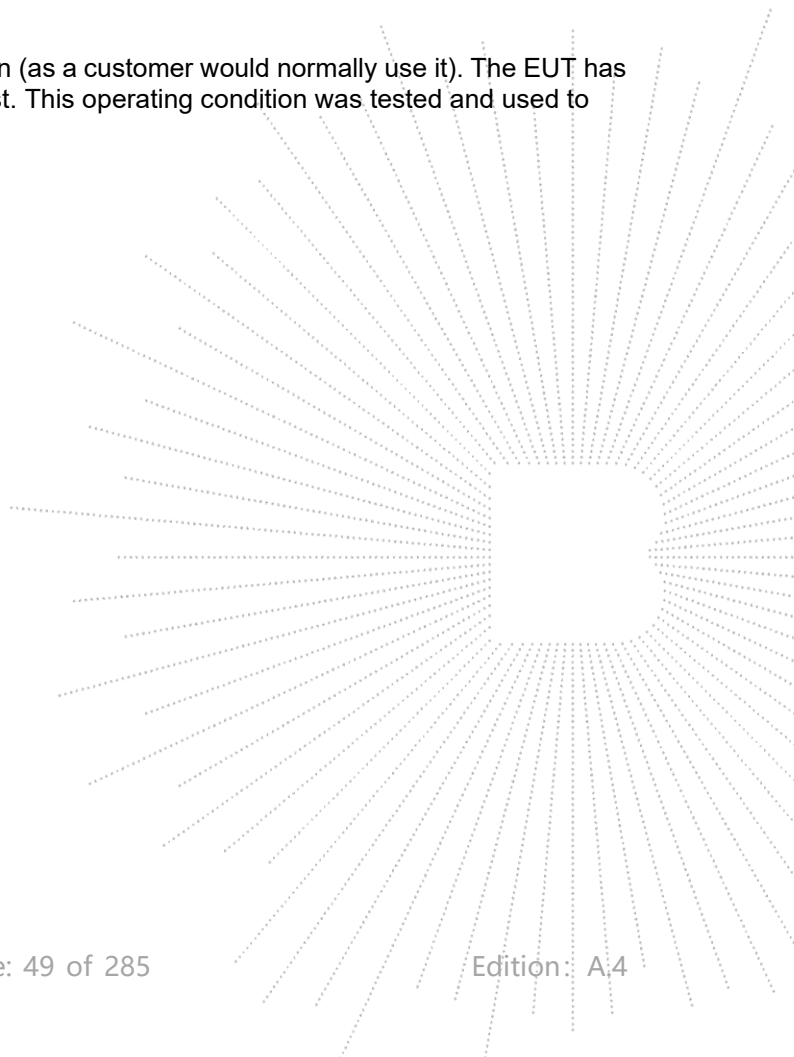
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 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  $RBW \geq 1/T$ , where T is defined in section II.B.I.a).
- b) Set  $VBW \geq 3 RBW$ .
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/RBW)$  to the measured result, whereas  $RBW (< 500 \text{ KHz})$  is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add  $10\log(1\text{MHz}/RBW)$  to the measured result, whereas  $RBW (< 1 \text{ MHz})$  is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since  $RBW=100 \text{ KHz}$  is available on nearly all spectrum analyzers.

### 8.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

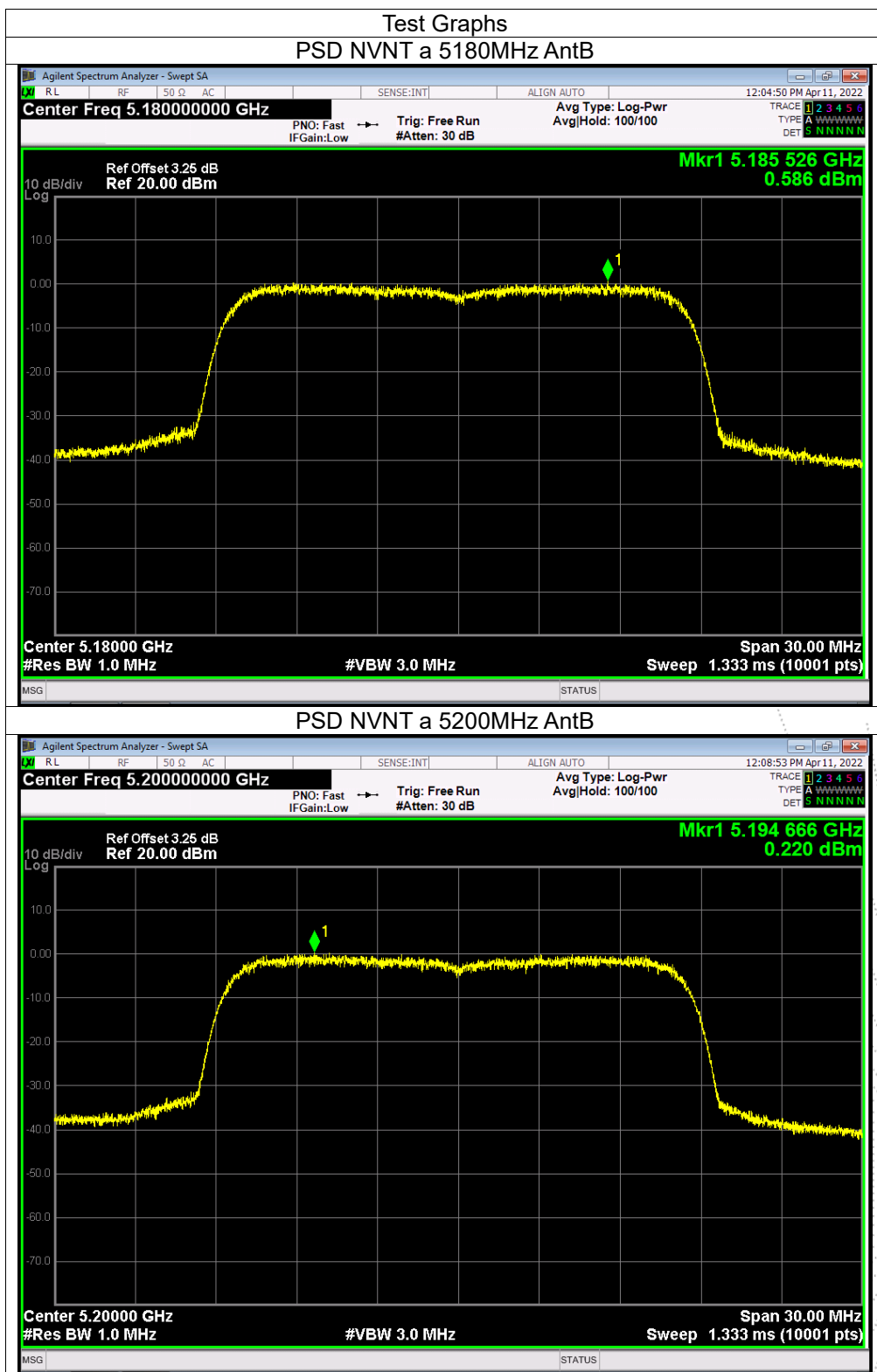


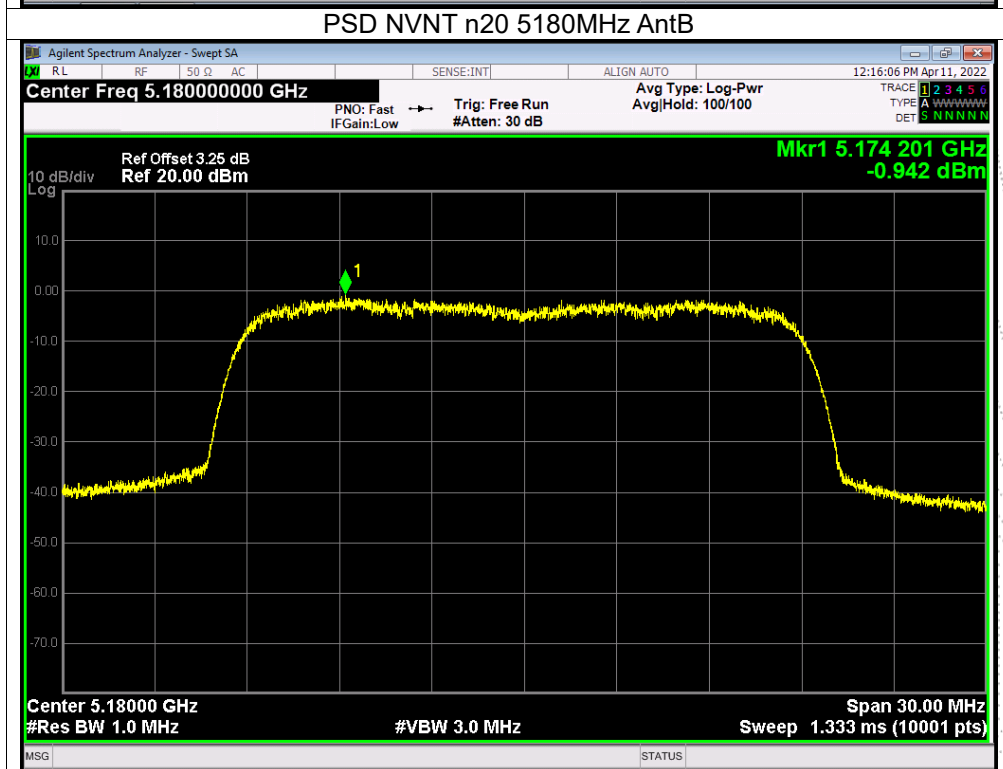
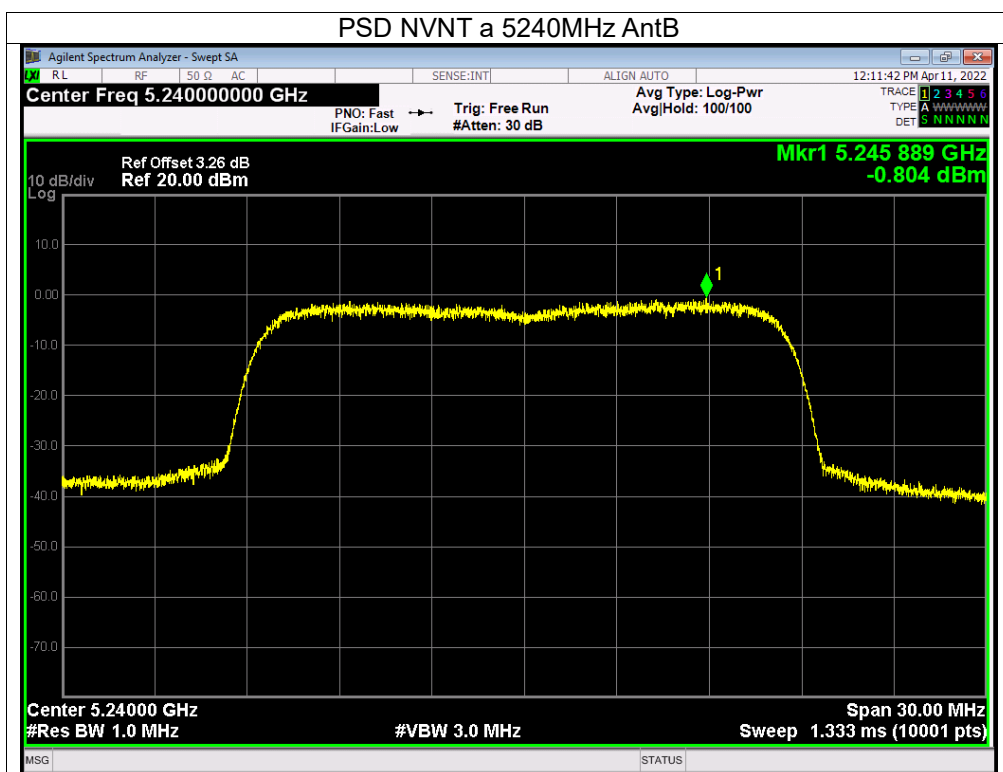
## 8.5 Test Result

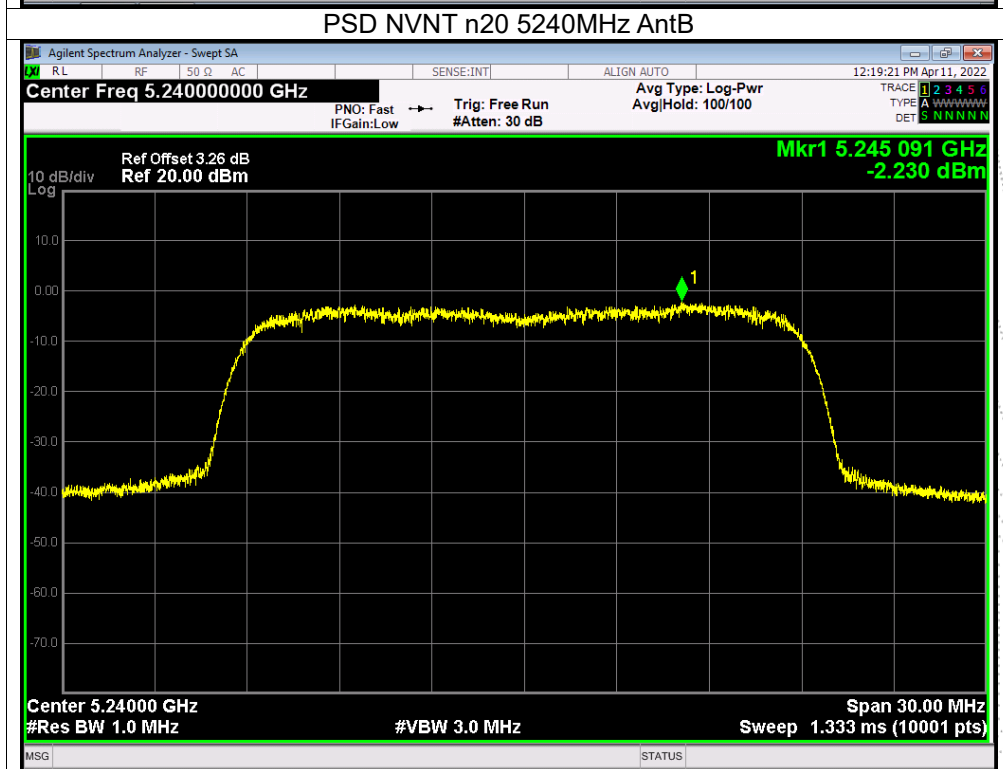
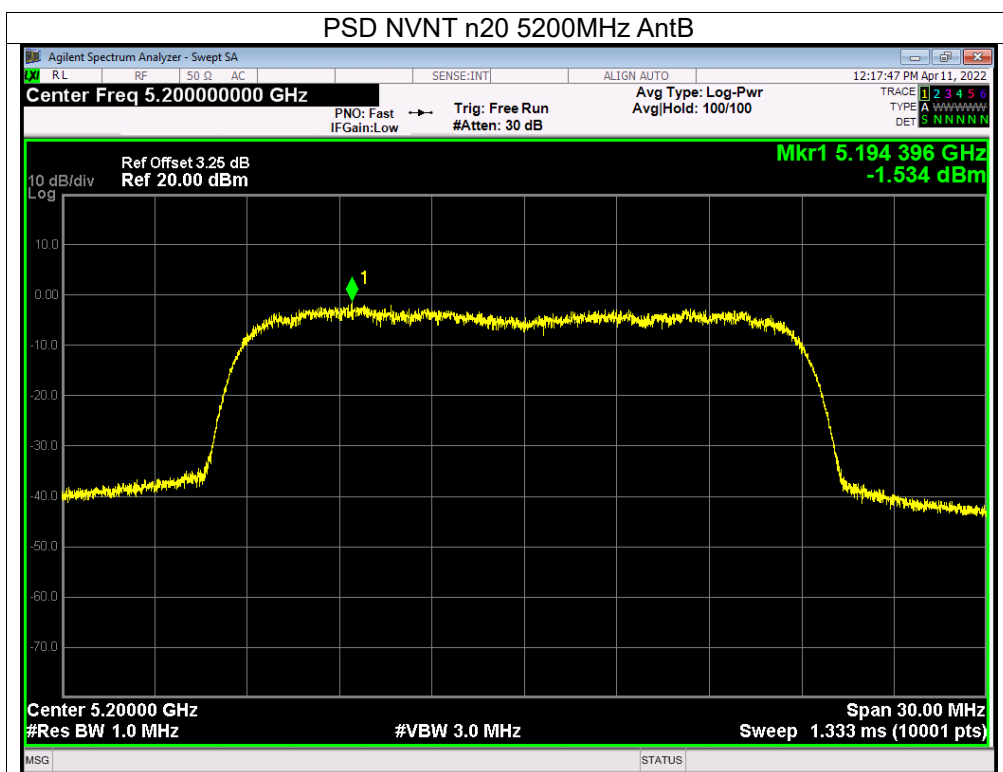
|              |                |                    |             |
|--------------|----------------|--------------------|-------------|
| Temperature: | 26 °C          | Relative Humidity: | 54%         |
| Pressure:    | 101KPa         | Test Voltage:      | AC120V/60Hz |
| Test Mode:   | (5180-5240MHz) |                    |             |

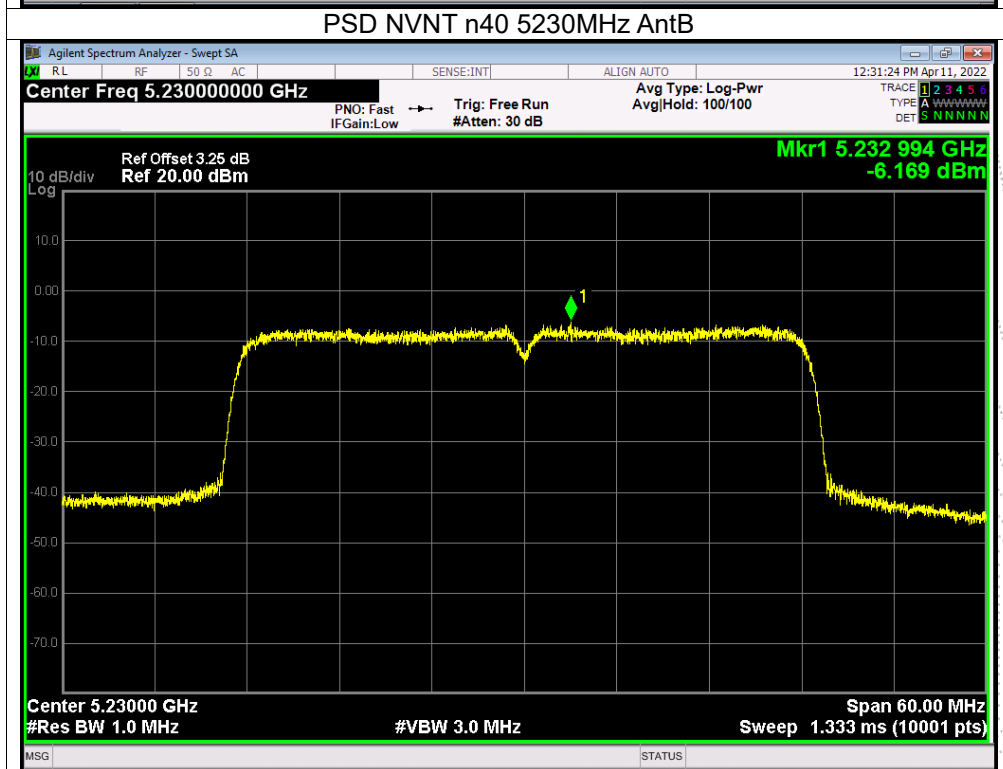
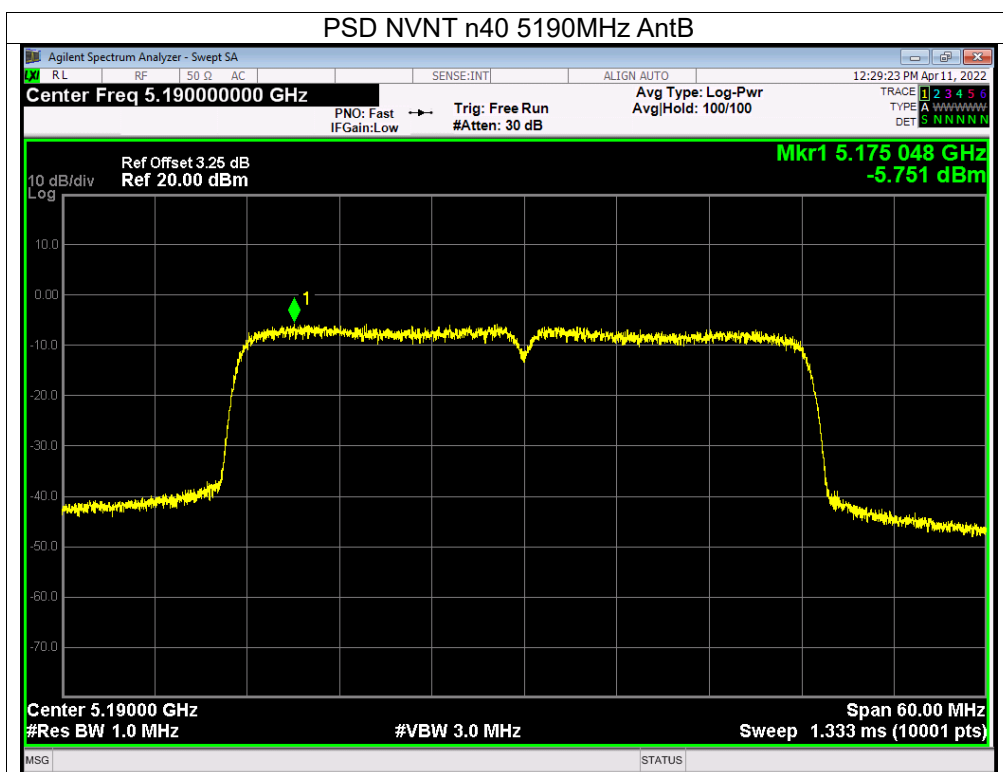
| Condition | Mode | Frequency (MHz) | Conducted PSD (dBm/MHz) |       | Total (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|-------------------------|-------|-----------------|-----------------|---------|
|           |      |                 | Ant A                   | Ant B |                 |                 |         |
| NVNT      | a    | 5180            | -0.14                   | 0.59  | /               | 11              | Pass    |
| NVNT      | a    | 5200            | -0.81                   | 0.22  | /               | 11              | Pass    |
| NVNT      | a    | 5240            | -0.50                   | -0.80 | /               | 11              | Pass    |
| NVNT      | n20  | 5180            | -1.56                   | -0.94 | 1.77            | 11              | Pass    |
| NVNT      | n20  | 5200            | -2.42                   | -1.53 | 1.06            | 11              | Pass    |
| NVNT      | n20  | 5240            | -3.07                   | -2.23 | 0.38            | 11              | Pass    |
| NVNT      | n40  | 5190            | -5.67                   | -5.75 | -2.70           | 11              | Pass    |
| NVNT      | n40  | 5230            | -6.67                   | -6.17 | -3.40           | 11              | Pass    |
| NVNT      | ac20 | 5180            | -1.97                   | -0.98 | 1.56            | 11              | Pass    |
| NVNT      | ac20 | 5200            | -2.92                   | -1.74 | 0.72            | 11              | Pass    |
| NVNT      | ac20 | 5240            | -3.03                   | -2.51 | 0.25            | 11              | Pass    |
| NVNT      | ac40 | 5190            | -5.68                   | -5.59 | -2.62           | 11              | Pass    |
| NVNT      | ac40 | 5230            | -7.15                   | -6.55 | -3.83           | 11              | Pass    |
| NVNT      | ac80 | 5210            | -9.96                   | -8.84 | -6.35           | 11              | Pass    |

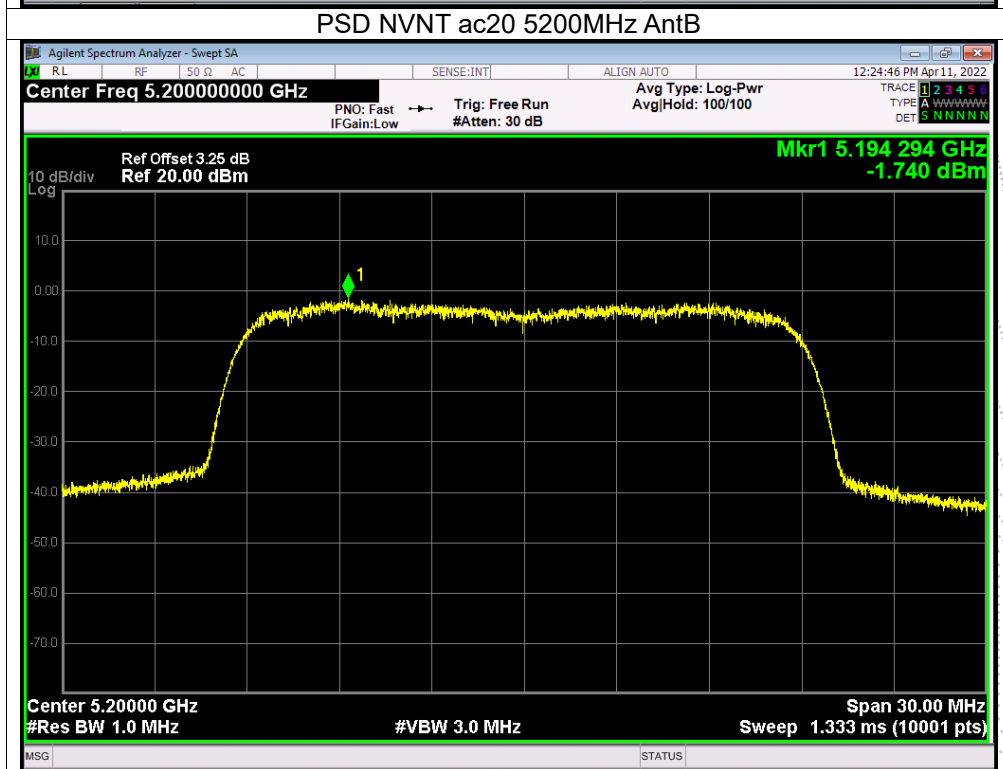
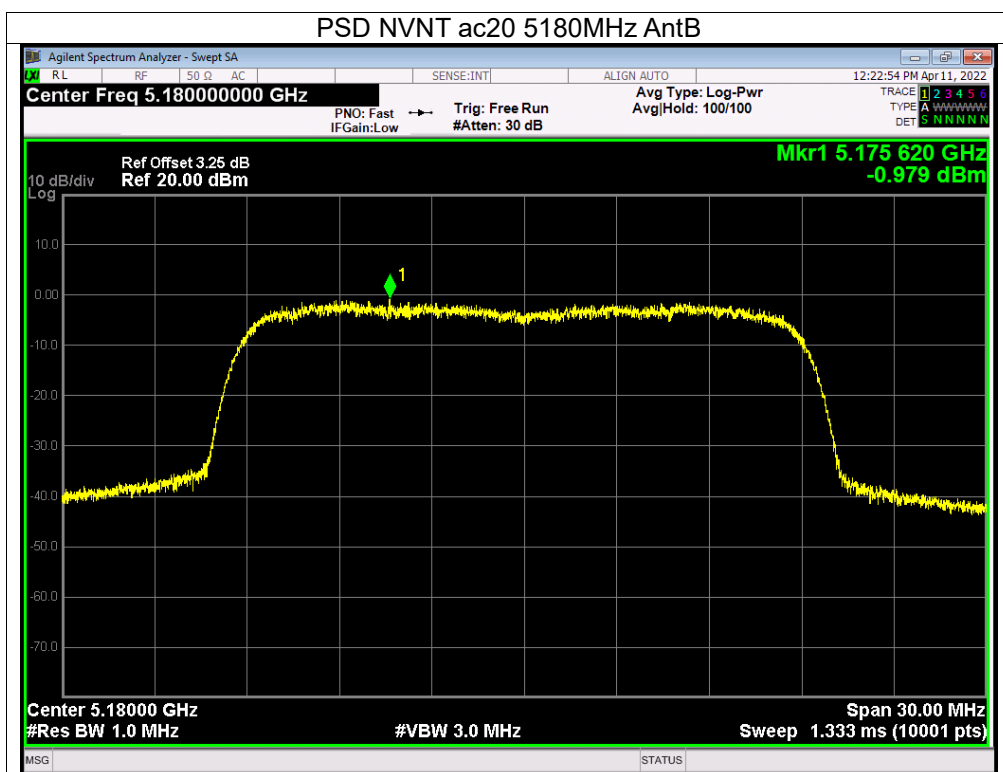
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

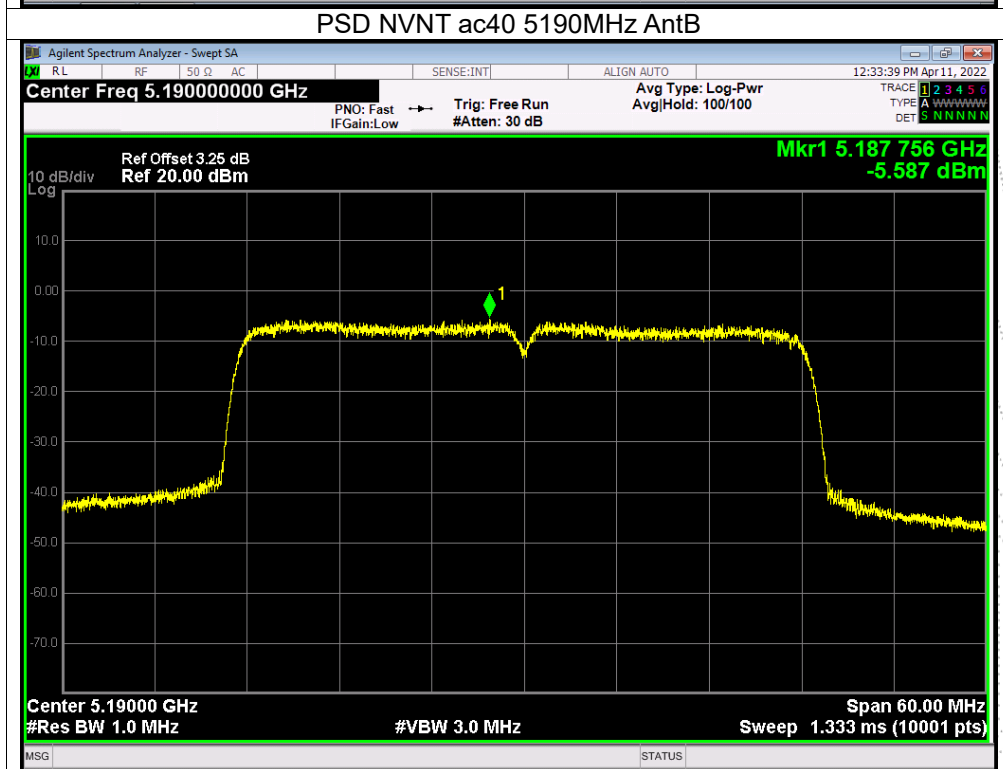
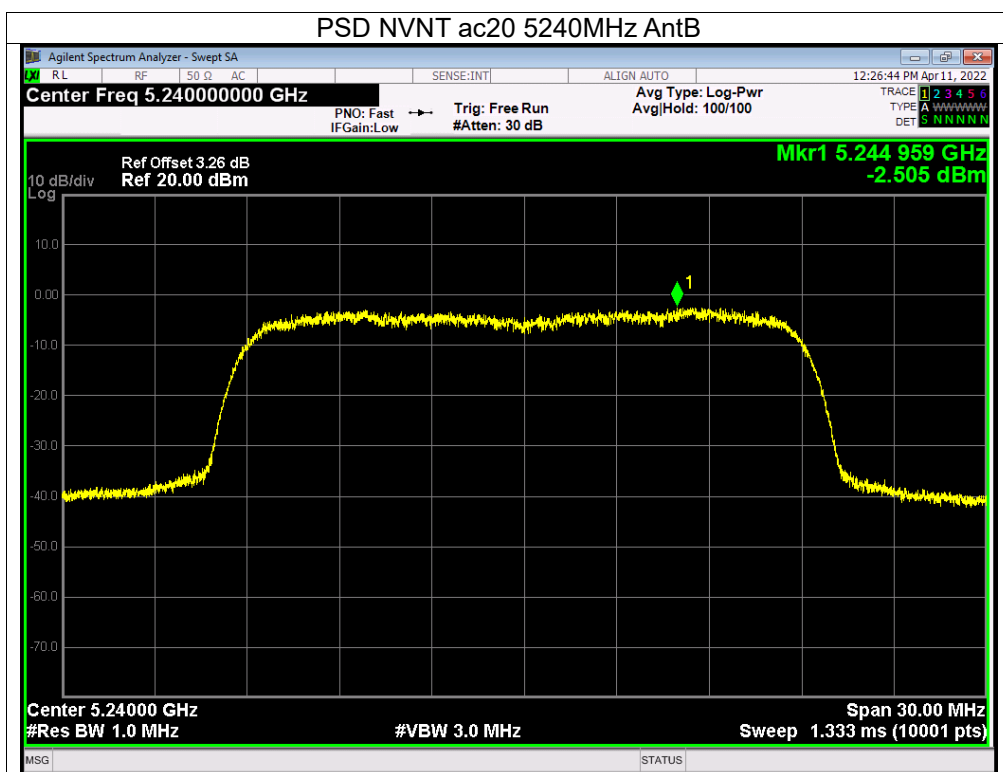


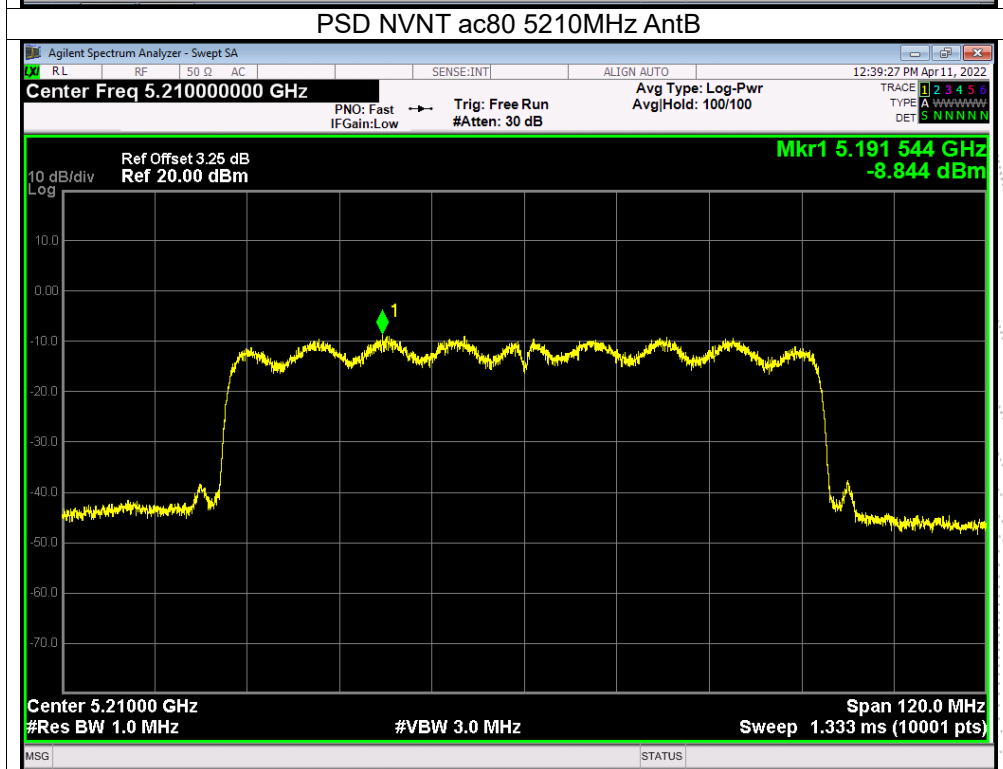
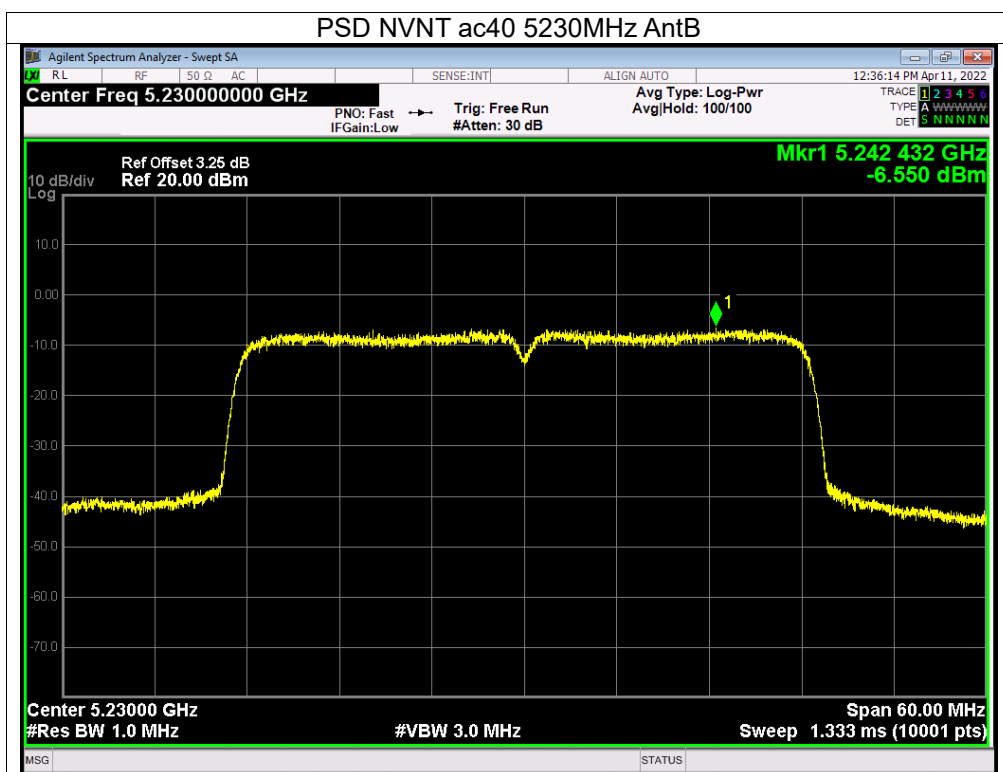






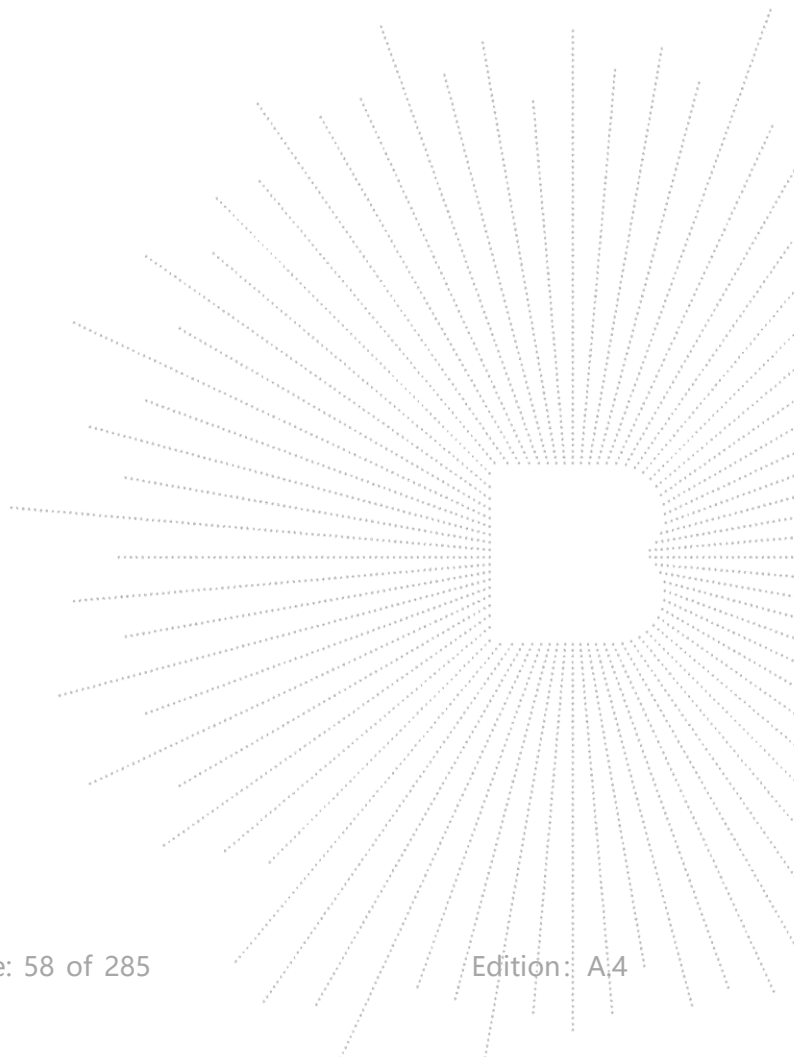




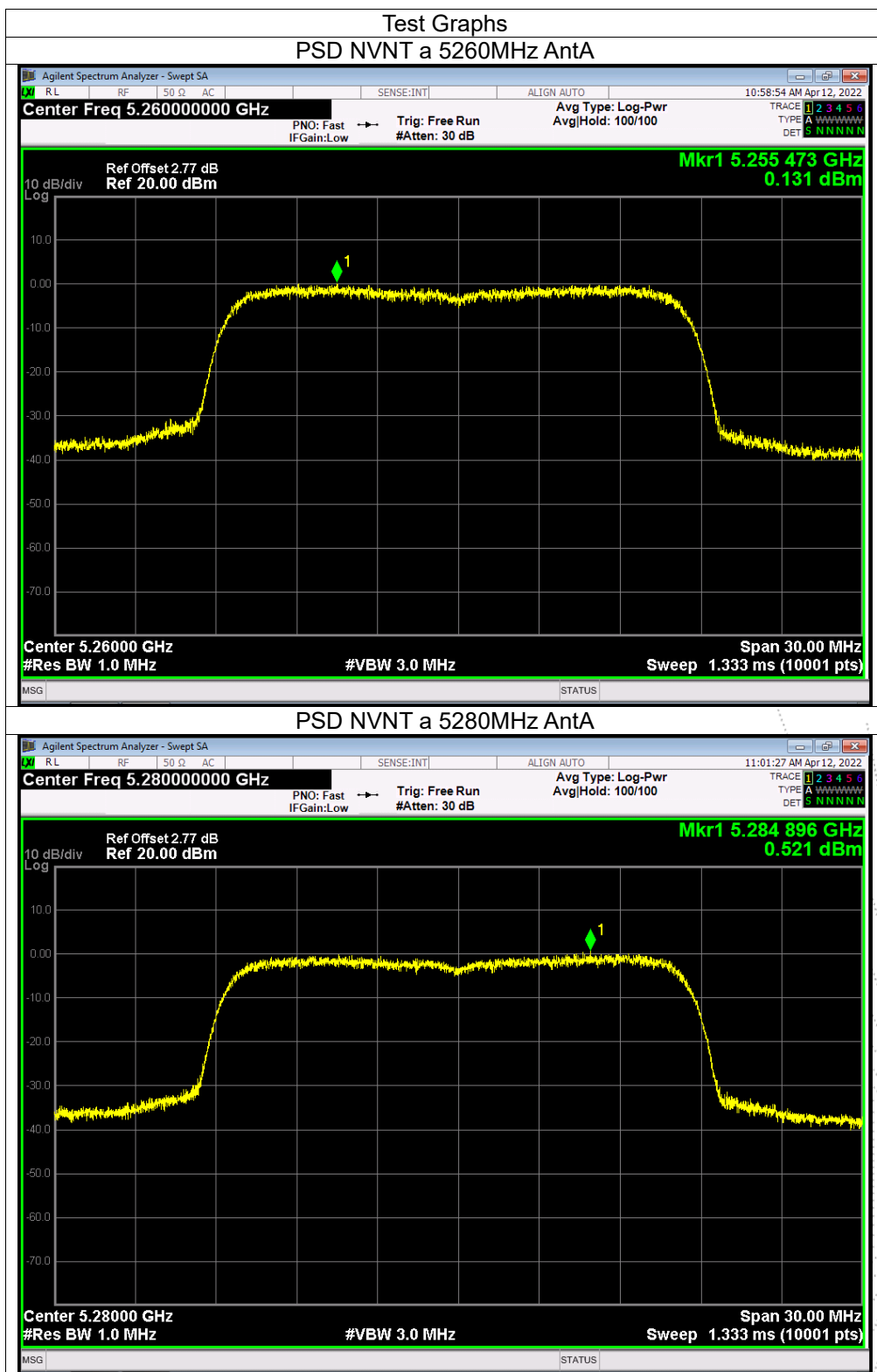


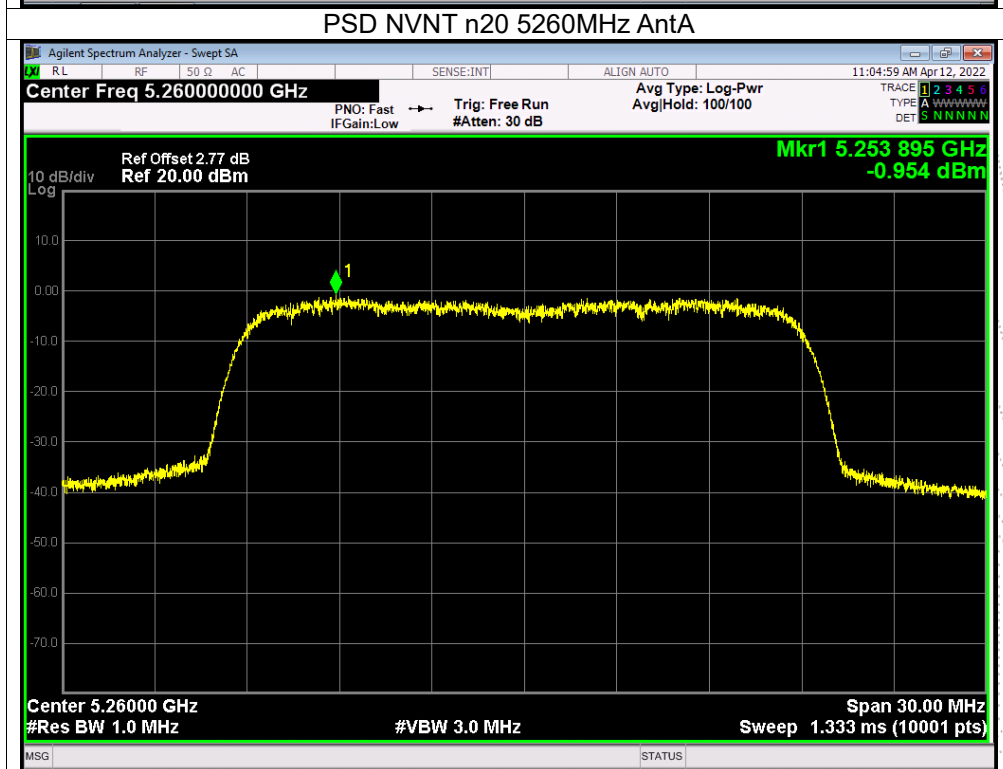
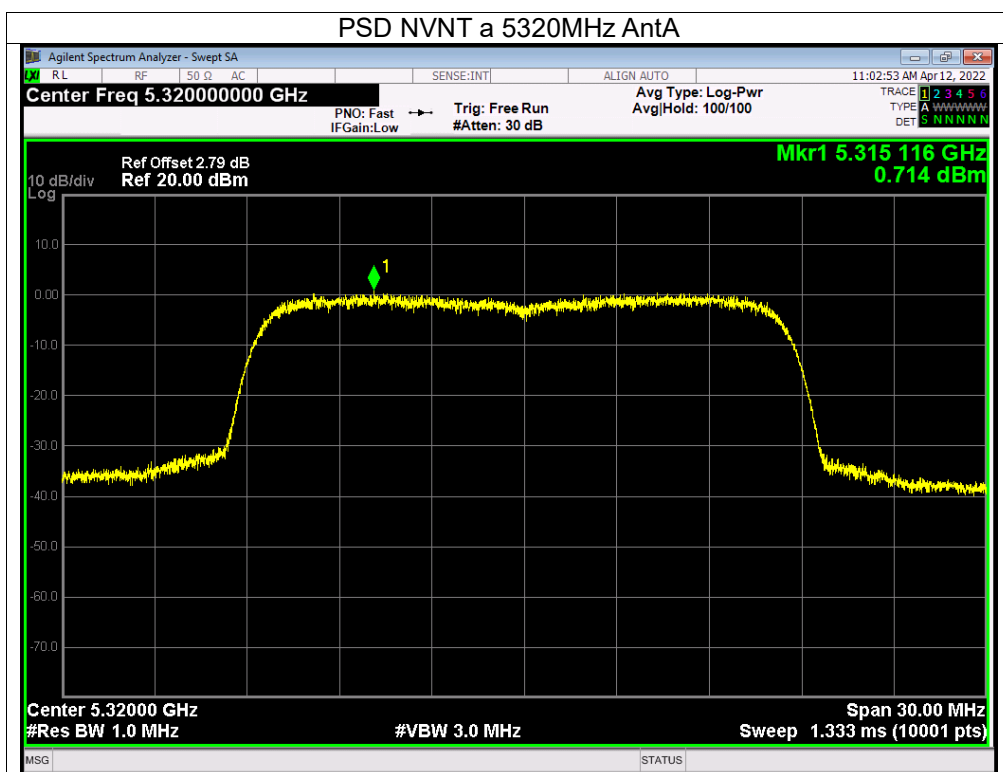
|              |                |                    |             |
|--------------|----------------|--------------------|-------------|
| Temperature: | 26 °C          | Relative Humidity: | 54%         |
| Pressure:    | 101KPa         | Test Voltage:      | AC120V/60Hz |
| Test Mode:   | (5260-5320MHz) |                    |             |

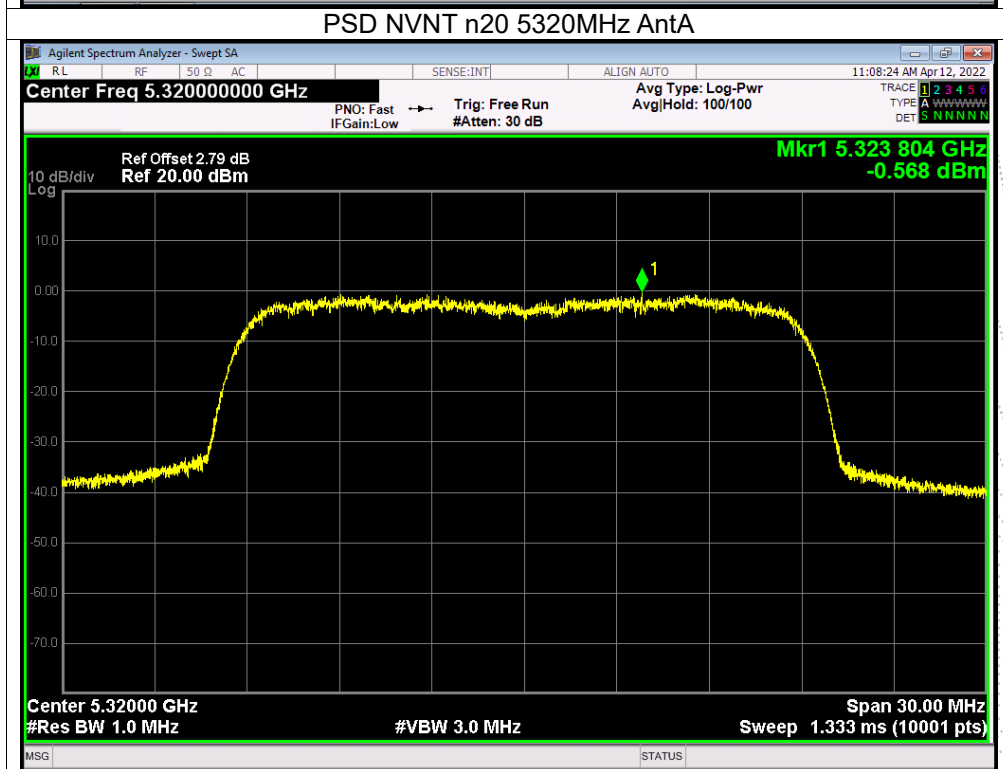
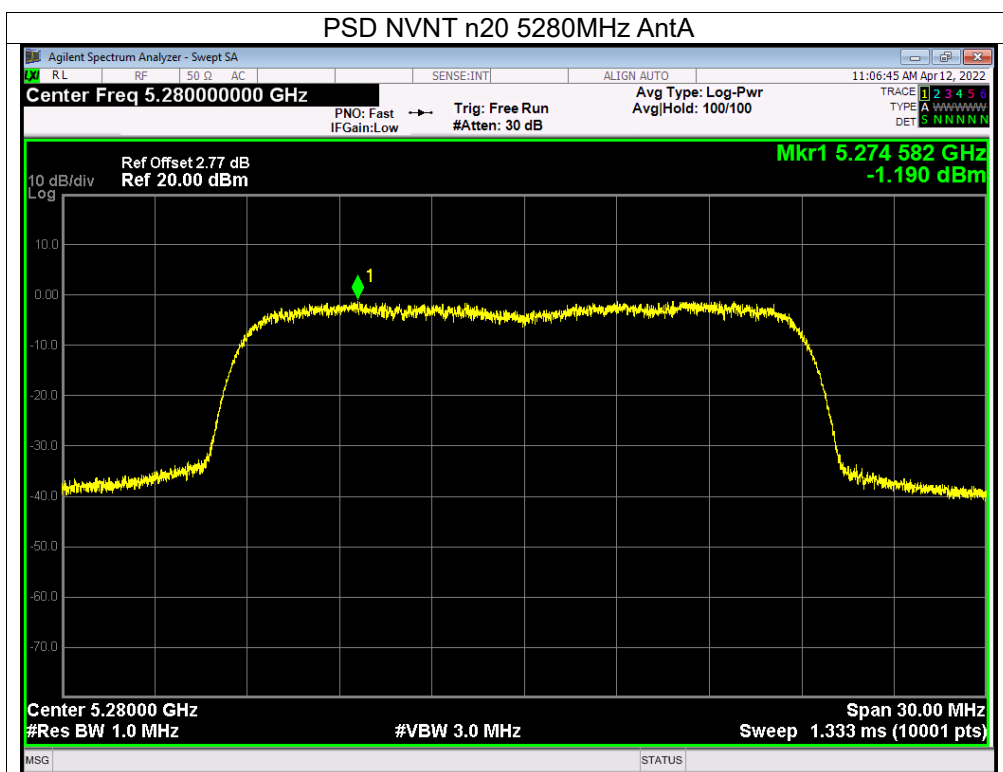
| Condition | Mode | Frequency (MHz) | Conducted PSD (dBm/MHz) |        | Total (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|-------------------------|--------|-----------------|-----------------|---------|
|           |      |                 | Ant A                   | Ant B  |                 |                 |         |
| NVNT      | a    | 5260            | 0.13                    | -0.30  | /               | 11              | Pass    |
| NVNT      | a    | 5280            | 0.52                    | -0.29  | /               | 11              | Pass    |
| NVNT      | a    | 5320            | 0.71                    | 0.03   | /               | 11              | Pass    |
| NVNT      | n20  | 5260            | -0.95                   | -2.23  | 1.47            | 11              | Pass    |
| NVNT      | n20  | 5280            | -1.19                   | -1.99  | 1.44            | 11              | Pass    |
| NVNT      | n20  | 5320            | -0.57                   | -1.41  | 2.04            | 11              | Pass    |
| NVNT      | n40  | 5270            | -5.05                   | -5.75  | -2.38           | 11              | Pass    |
| NVNT      | n40  | 5310            | -4.96                   | -5.99  | -2.43           | 11              | Pass    |
| NVNT      | ac20 | 5260            | -0.95                   | -1.72  | 1.69            | 11              | Pass    |
| NVNT      | ac20 | 5280            | -0.97                   | -1.36  | 1.85            | 11              | Pass    |
| NVNT      | ac20 | 5320            | -0.63                   | -1.41  | 2.01            | 11              | Pass    |
| NVNT      | ac40 | 5270            | -6.14                   | -6.18  | -3.15           | 11              | Pass    |
| NVNT      | ac40 | 5310            | -5.84                   | -5.83  | -2.82           | 11              | Pass    |
| NVNT      | ac80 | 5290            | -9.16                   | -10.21 | -6.64           | 11              | Pass    |

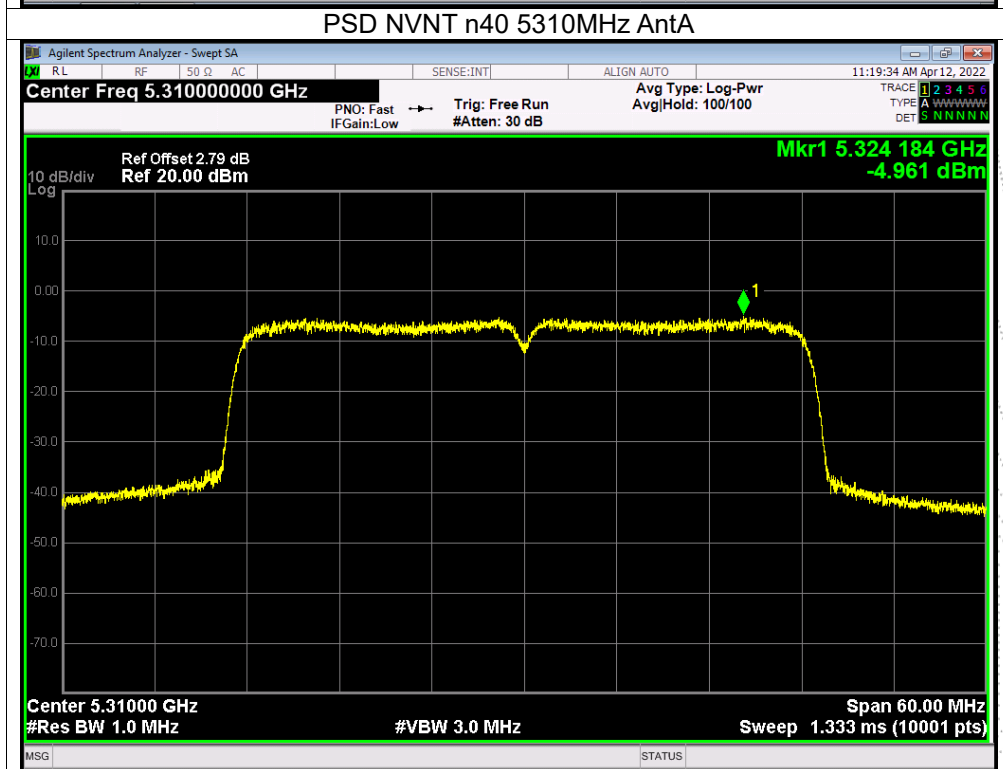
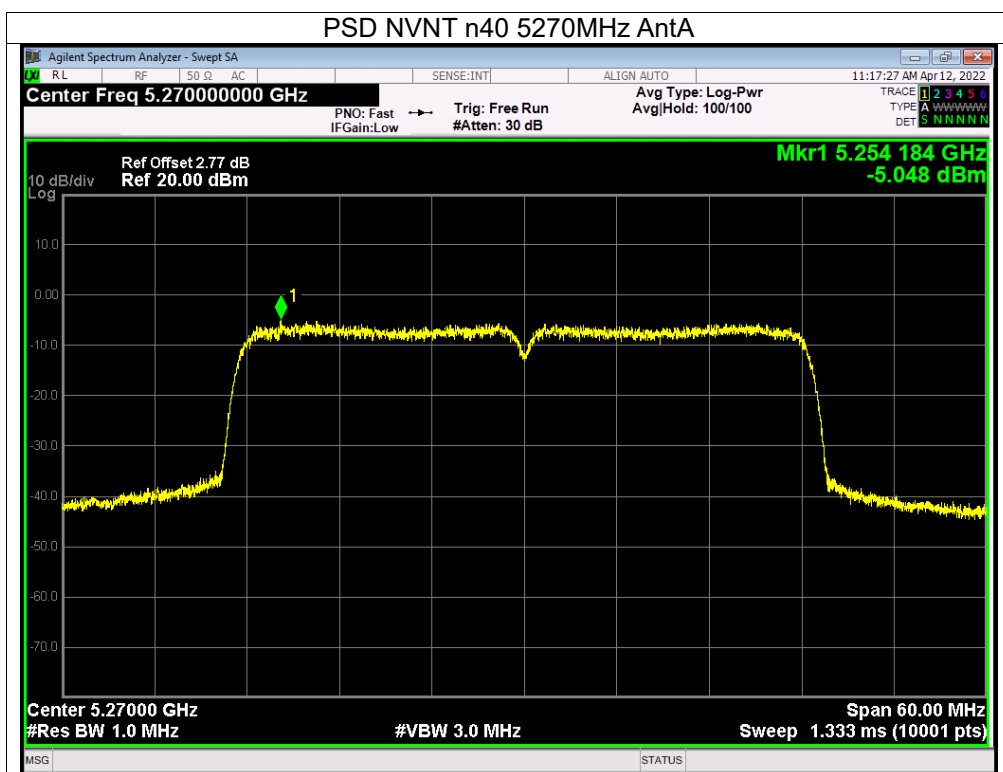


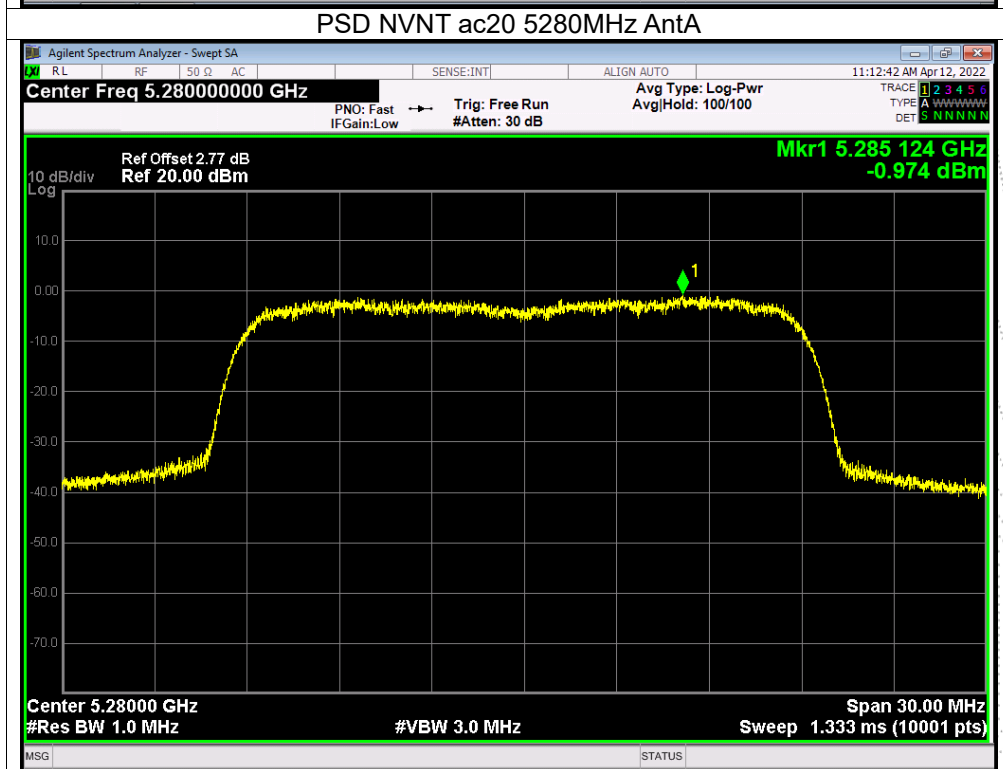
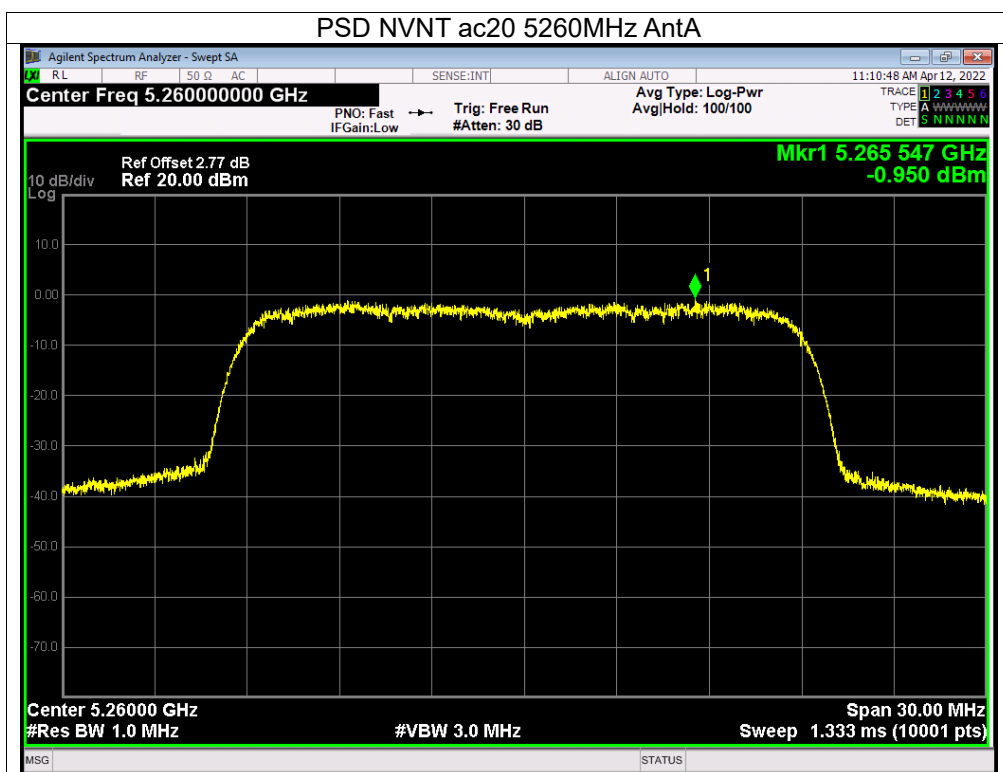
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

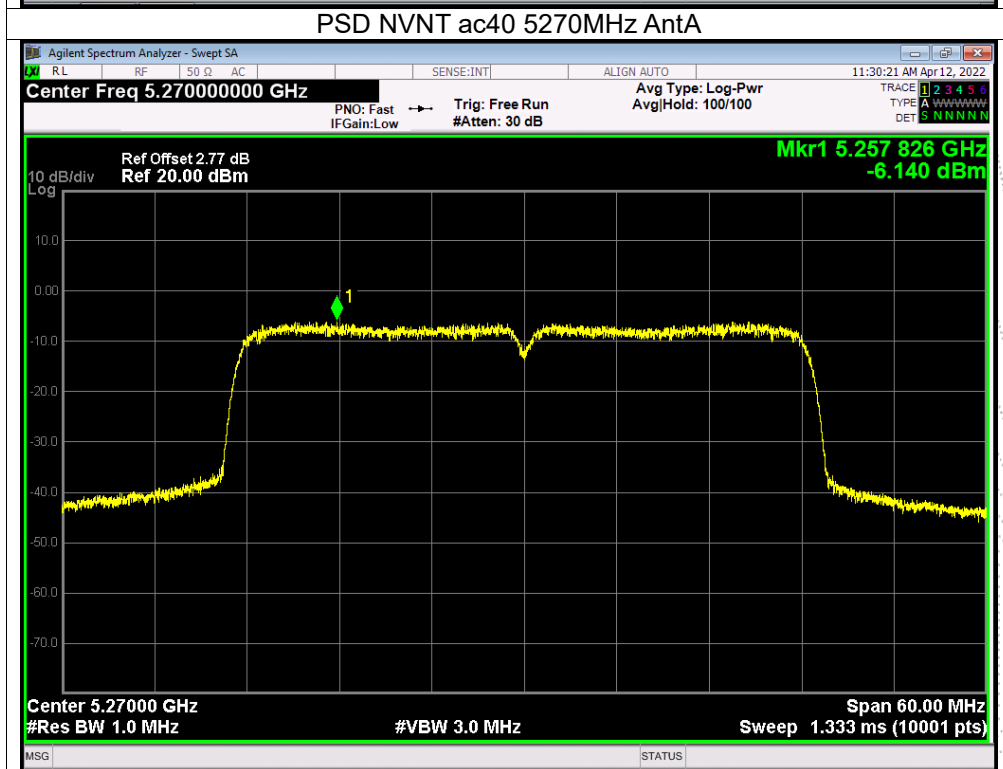
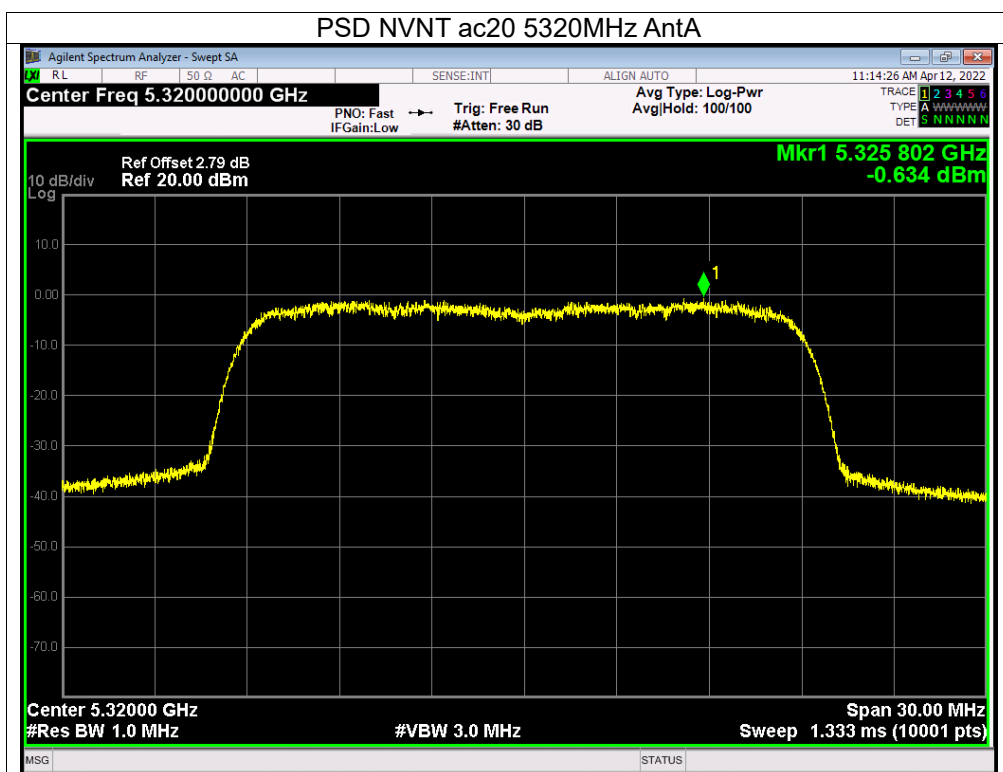


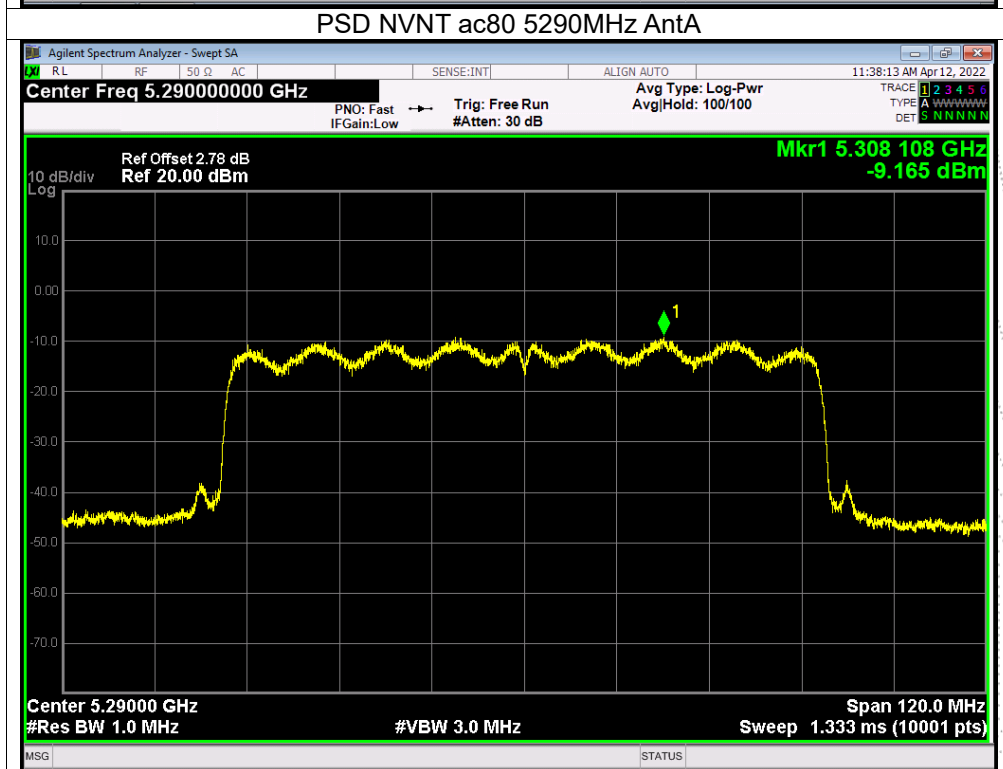
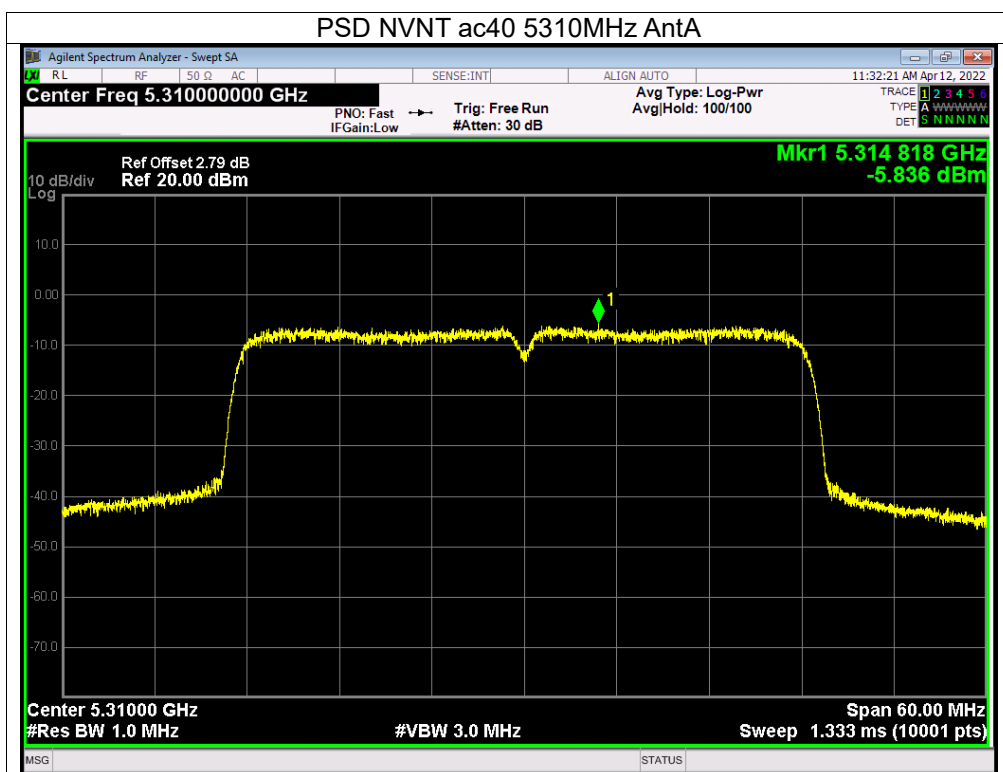












|              |                |                    |             |
|--------------|----------------|--------------------|-------------|
| Temperature: | 26 °C          | Relative Humidity: | 54%         |
| Pressure:    | 101KPa         | Test Voltage:      | AC120V/60Hz |
| Test Mode:   | (5500-5700MHz) |                    |             |

| Condition | Mode | Frequency (MHz) | Conducted PSD (dBm/MHz) |       | Total (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|-------------------------|-------|-----------------|-----------------|---------|
|           |      |                 | Ant A                   | Ant B |                 |                 |         |
| NVNT      | a    | 5500            | 0.60                    | 0.68  | /               | 11              | Pass    |
| NVNT      | a    | 5600            | 1.41                    | 0.99  | /               | 11              | Pass    |
| NVNT      | a    | 5700            | 1.99                    | 1.36  | /               | 11              | Pass    |
| NVNT      | n20  | 5500            | -1.62                   | -0.97 | 1.73            | 11              | Pass    |
| NVNT      | n20  | 5600            | -0.60                   | -0.92 | 2.25            | 11              | Pass    |
| NVNT      | n20  | 5700            | -0.16                   | -0.72 | 2.58            | 11              | Pass    |
| NVNT      | n40  | 5510            | -5.12                   | -5.65 | -2.37           | 11              | Pass    |
| NVNT      | n40  | 5590            | -4.47                   | -4.78 | -1.61           | 11              | Pass    |
| NVNT      | n40  | 5670            | -3.18                   | -4.04 | -0.58           | 11              | Pass    |
| NVNT      | ac20 | 5500            | -0.48                   | -1.17 | 2.20            | 11              | Pass    |
| NVNT      | ac20 | 5600            | -0.43                   | -0.82 | 2.39            | 11              | Pass    |
| NVNT      | ac20 | 5700            | -0.11                   | -0.65 | 2.64            | 11              | Pass    |
| NVNT      | ac40 | 5510            | -4.71                   | -5.66 | -2.15           | 11              | Pass    |
| NVNT      | ac40 | 5590            | -3.90                   | -4.67 | -1.26           | 11              | Pass    |
| NVNT      | ac40 | 5670            | -3.37                   | -4.36 | -0.83           | 11              | Pass    |
| NVNT      | ac80 | 5530            | -8.10                   | -9.00 | -5.52           | 11              | Pass    |
| NVNT      | ac80 | 5610            | -7.19                   | -8.03 | -4.58           | 11              | Pass    |

Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

