



# FCC C2PC Test Report

## FCC Part15 Subpart E

Product Name : Wireless Access Point

Model No. : AP650

FCC ID : WBV-AP650

Applicant : Aerohive Networks, Inc.

Address : Aerohive Networks, 1011 McCarthy Boulevard,  
Milpitas, CA 95035, United States

Date of Receipt : Jul. 18, 2018

Test Date : May. 15, 2018~ Sep. 05, 2018

Issued Date : Sep. 28, 2018

Report No. : 1872113R-RF-US-P09V01

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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# Test Report Certification

Issued Date : Sep. 28, 2018

Report No. : 1872113R-RF-US-P09V01



Product Name : Wireless Access Point  
Applicant : Aerohive Networks, Inc.  
Address : Aerohive Networks, 1011 McCarthy Boulevard, Milpitas, CA  
95035, United States  
Manufacturer : Aerohive Networks, Inc.  
Address : Aerohive Networks, 1011 McCarthy Boulevard, Milpitas, CA  
95035, United States  
Model No. : AP650  
FCC ID : WBV-AP650  
EUT Voltage : PoE 48V  
Test Voltage : AC 120V/60Hz  
Brand Name : Aerohive  
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E  
ANSI C63.10:2013;  
789033 D02 General UNII Test Procedures New Rules  
v02r01  
KDB 662911 D01 Multiple Transmitter Output v02r01  
Test Result : Complied  
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.  
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FCC Designation Number: CN1199

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**History of This Test Report**

| REPORT NO.            | VERSION | DESCRIPTION           | ISSUED DATE   |
|-----------------------|---------|-----------------------|---------------|
| 1872113R-RF-US-P09V01 | V1.0    | Initial Issued Report | Sep. 28, 2018 |
|                       |         |                       |               |
|                       |         |                       |               |
|                       |         |                       |               |

## 1. General Information

### 1.1. EUT Description

|                    |                                                       |                  |                                                     |                       |                                     |                 |
|--------------------|-------------------------------------------------------|------------------|-----------------------------------------------------|-----------------------|-------------------------------------|-----------------|
| Product Name       | Wireless Access Point                                 |                  |                                                     |                       |                                     |                 |
| Brand Name         | Aerohive                                              |                  |                                                     |                       |                                     |                 |
| Model No.          | AP650                                                 |                  |                                                     |                       |                                     |                 |
| EUT Voltage        | PoE 48V                                               |                  |                                                     |                       |                                     |                 |
| Type of Modulation | OFDM-BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,1024QAM |                  |                                                     |                       |                                     |                 |
| Data Rate          | 802.11a: 6/9/12/18/24/36/48/54Mbps                    |                  |                                                     |                       |                                     |                 |
|                    | 802.11n: up to 600Mbps                                |                  |                                                     |                       |                                     |                 |
|                    | 802.11ac: up to 1.7Gbps                               |                  |                                                     |                       |                                     |                 |
|                    | 802.11ax: up to 2.4Gbps                               |                  |                                                     |                       |                                     |                 |
| Channel Control    | Auto                                                  |                  |                                                     |                       |                                     |                 |
| Transmit modes     | <input checked="" type="checkbox"/>                   | 802.11a          | <input checked="" type="checkbox"/>                 | 802.11n(20MHz)        | <input checked="" type="checkbox"/> | 802.11n(40MHz)  |
|                    | <input checked="" type="checkbox"/>                   | 802.11ac(20MHz)  | <input checked="" type="checkbox"/>                 | 802.11ac(40MHz)       | <input checked="" type="checkbox"/> | 802.11ac(80MHz) |
|                    | <input checked="" type="checkbox"/>                   | 802.11ax(20MHz)  | <input checked="" type="checkbox"/>                 | 802.11ax(40MHz)       | <input checked="" type="checkbox"/> | 802.11ax(80MHz) |
|                    | <input checked="" type="checkbox"/>                   | 802.11ax(160MHz) |                                                     |                       |                                     |                 |
| Support Bands      | <input checked="" type="checkbox"/>                   | 5150MHz~5250MHz  | <input type="checkbox"/> Outdoor AP                 |                       |                                     |                 |
|                    |                                                       |                  | <input checked="" type="checkbox"/> Indoor AP       |                       |                                     |                 |
|                    |                                                       |                  | <input type="checkbox"/> Fixed point-to-point AP    |                       |                                     |                 |
|                    |                                                       |                  | <input type="checkbox"/> Mobile and Portable Client |                       |                                     |                 |
|                    | <input checked="" type="checkbox"/>                   | 5250MHz~5350MHz  |                                                     |                       |                                     |                 |
|                    | <input checked="" type="checkbox"/>                   | 5470MHz~5725MHz  | <input checked="" type="checkbox"/>                 | With TDWR Channels    |                                     |                 |
|                    |                                                       |                  | <input type="checkbox"/>                            | Without TDWR Channels |                                     |                 |
|                    | <input checked="" type="checkbox"/>                   | 5725MHz~5850MHz  |                                                     |                       |                                     |                 |

Note1: The device contains two 5GHz modules, and called eth6 and eth7, eth6 can work separately and eth7 can only transmit with eth6 which at 5150~5350MHz and eth6 work at 5470~5850MHz. So eth6 test all the frequency bands and eth7 only test 5150~5350MHz.

2: The output power of 802.11ax is lower than 802.11ac, so we didn't show 802.11ax test data in this report.

## 1.2. Antenna information

|                                                  |                                     |           |                                     |                                                   |                                     |           |                                     |           |  |  |
|--------------------------------------------------|-------------------------------------|-----------|-------------------------------------|---------------------------------------------------|-------------------------------------|-----------|-------------------------------------|-----------|--|--|
| Antenna Model No.                                | N/A                                 |           |                                     |                                                   |                                     |           |                                     |           |  |  |
| Antenna Manufacturer                             | N/A                                 |           |                                     |                                                   |                                     |           |                                     |           |  |  |
| Antenna Delivery                                 | <input checked="" type="checkbox"/> | 1*TX+1*RX | <input checked="" type="checkbox"/> | 2*TX+2*RX                                         | <input checked="" type="checkbox"/> | 3*TX+3*RX | <input checked="" type="checkbox"/> | 4*TX+4*RX |  |  |
| Antenna Technology                               | <input type="checkbox"/>            | SISO      |                                     |                                                   |                                     |           |                                     |           |  |  |
|                                                  | <input checked="" type="checkbox"/> | MIMO      | <input type="checkbox"/>            | Basic methodology                                 |                                     |           |                                     |           |  |  |
|                                                  |                                     |           | <input type="checkbox"/>            | Sectorized antenna systems                        |                                     |           |                                     |           |  |  |
|                                                  |                                     |           | <input type="checkbox"/>            | Cross-polarized antennas                          |                                     |           |                                     |           |  |  |
|                                                  |                                     |           | <input type="checkbox"/>            | Unequal antenna gains, with equal transmit powers |                                     |           |                                     |           |  |  |
|                                                  |                                     |           | <input checked="" type="checkbox"/> | Spatial Multiplexing                              |                                     |           |                                     |           |  |  |
|                                                  |                                     |           | <input checked="" type="checkbox"/> | Cyclic Delay Diversity (CDD)                      |                                     |           |                                     |           |  |  |
| Antenna Type                                     | Metal Antenna                       |           |                                     |                                                   |                                     |           |                                     |           |  |  |
| Antenna Technology(2*TX+2*RX)                    | Ant Gain (dBi)                      |           |                                     |                                                   | Directional Gain (dBi)              |           |                                     |           |  |  |
|                                                  |                                     |           |                                     |                                                   | For Power                           |           |                                     | For PSD   |  |  |
| <input checked="" type="checkbox"/> CDD          | 6                                   |           |                                     |                                                   | 6                                   |           |                                     | 9         |  |  |
| <input checked="" type="checkbox"/> Beam-forming |                                     |           |                                     |                                                   | 9                                   |           |                                     | 9         |  |  |
| Antenna Technology(4*TX+4*RX)                    | Ant Gain (dBi)                      |           |                                     |                                                   | Directional Gain (dBi)              |           |                                     |           |  |  |
|                                                  |                                     |           |                                     |                                                   | For Power                           |           |                                     | For PSD   |  |  |
| <input checked="" type="checkbox"/> CDD          | 6                                   |           |                                     |                                                   | 6                                   |           |                                     | 12        |  |  |
| <input checked="" type="checkbox"/> Beam-forming |                                     |           |                                     |                                                   | 12                                  |           |                                     | 12        |  |  |



### 1.3. Working Frequency of Each Channel:

| 802.11a/n/ac/ax(20MHz) Working Frequency of Each Channel: |           |         |           |         |           |         |           |
|-----------------------------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                                                   | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 36                                                        | 5180 MHz  | 40      | 5200 MHz  | 44      | 5220 MHz  | 48      | 5240 MHz  |
| 52                                                        | 5260MHz   | 56      | 5280 MHz  | 60      | 5300 MHz  | 64      | 5320 MHz  |
| 100                                                       | 5500MHz   | 104     | 5520 MHz  | 108     | 5540 MHz  | 112     | 5550 MHz  |
| 116                                                       | 5580MHz   | 120     | 5600MHz   | 124     | 5620MHz   | 128     | 5640MHz   |
| 132                                                       | 5660 MHz  | 136     | 5680 MHz  | 140     | 5700 MHz  | 144     | 5720 MHz  |
| 149                                                       | 5745 MHz  | 153     | 5765 MHz  | 157     | 5785 MHz  | 161     | 5805 MHz  |
| 165                                                       | 5825MHz   | N/A     | N/A       | N/A     | N/A       | N/A     | N/A       |
| 802.11n/ac/ax(40MHz) Working Frequency of Each Channel:   |           |         |           |         |           |         |           |
| Channel                                                   | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 38                                                        | 5190 MHz  | 46      | 5230 MHz  | 54      | 5270 MHz  | 62      | 5310 MHz  |
| 102                                                       | 5510 MHz  | 110     | 5550 MHz  | 118     | 5590 MHz  | 126     | 5630 MHz  |
| 134                                                       | 5670 MHz  | 142     | 5710 MHz  | 151     | 5755 MHz  | 159     | 5795 MHz  |
| 802.11ac/ax(80MHz) Working Frequency of Each Channel:     |           |         |           |         |           |         |           |
| Channel                                                   | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 42                                                        | 5210 MHz  | 58      | 5290 MHz  | 106     | 5530MHz   | 122     | 5610 MHz  |
| 138                                                       | 5690 MHz  | 155     | 5775 MHz  | N/A     | N/A       | N/A     | N/A       |
| 802.11ax(160MHz) Working Frequency of Each Channel:       |           |         |           |         |           |         |           |
| Channel                                                   | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 50                                                        | 5250 MHz  | 114     | 5570MHz   | N/A     | N/A       | N/A     | N/A       |

#### 1.4. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

| Test Mode                                               |
|---------------------------------------------------------|
| Mode 1: Transmit by 802.11a with CDD                    |
| Mode 2: Transmit by 802.11n(20MHz) with CDD             |
| Mode 3: Transmit by 802.11n(40MHz) with CDD             |
| Mode 4: Transmit by 802.11ac(20MHz) with CDD            |
| Mode 5: Transmit by 802.11ac(40MHz) with CDD            |
| Mode 6: Transmit by 802.11ac(80MHz) with CDD            |
| Mode 7: Transmit by 802.11ax(20MHz) with CDD            |
| Mode 8: Transmit by 802. 11ax(40MHz) with CDD           |
| Mode 9: Transmit by 802. 11ax(80MHz) with CDD           |
| Mode 10: Transmit by 802. 11ax(160MHz) with CDD         |
| Mode 11: Transmit by 802.11a with Beam-forming          |
| Mode 12: Transmit by 802. 11n(20MHz) with Beam-forming  |
| Mode 13: Transmit by 802. 11n(40MHz) with Beam-forming  |
| Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming  |
| Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming  |
| Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming  |
| Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming  |
| Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming  |
| Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming  |
| Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming |

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

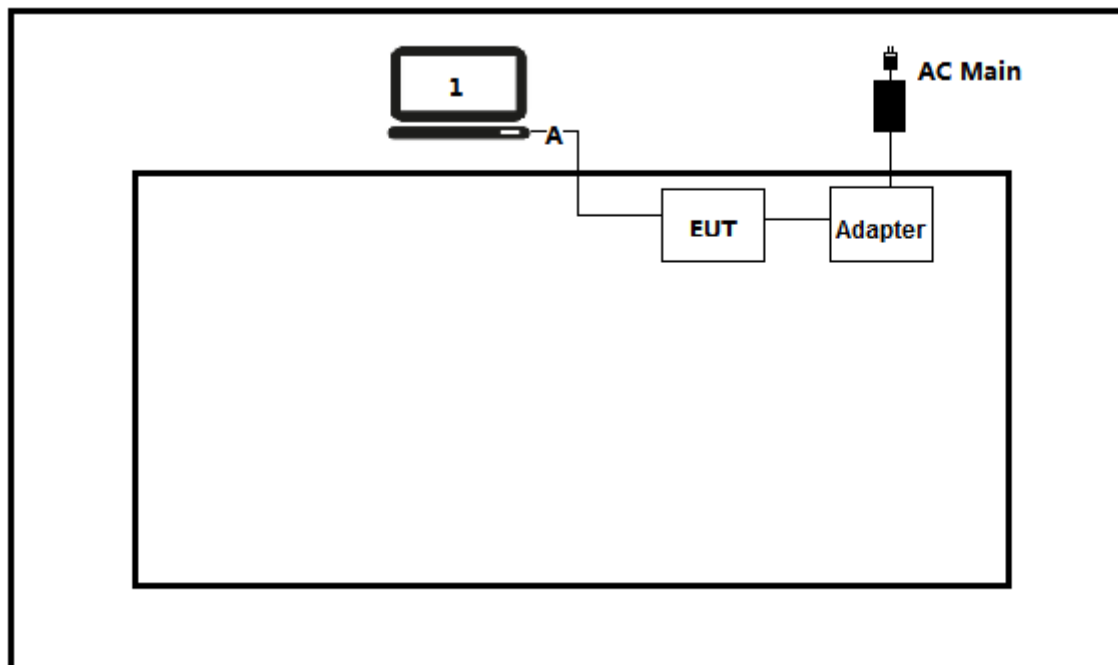
### 1.5. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

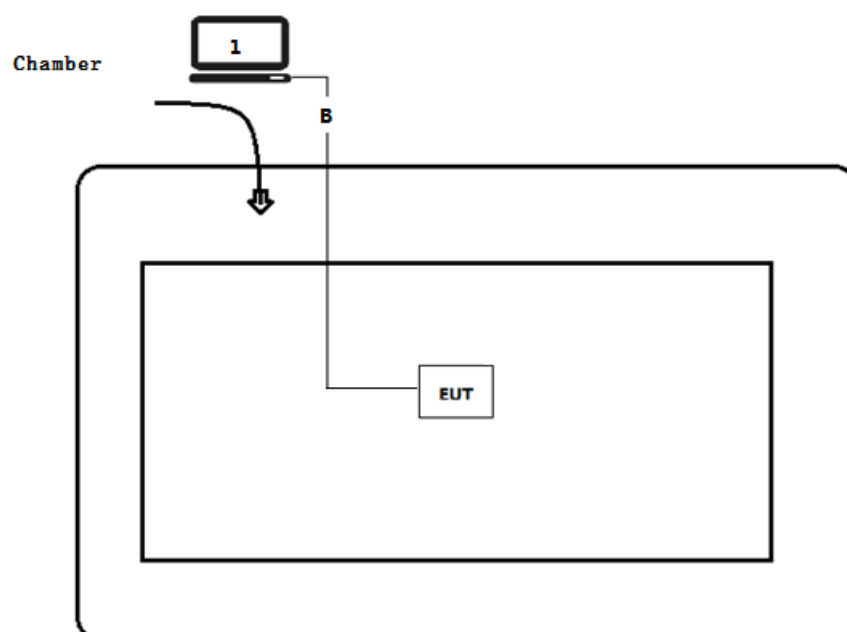
| Product |            | Manufacturer | Model No.      | Serial No. | Power Cord         |
|---------|------------|--------------|----------------|------------|--------------------|
| 1       | Notebook   | Lenovo       | Think pad x220 | SUA0600195 | Non-shielded       |
| A       | WLAN cable | N/A          | N/A            | N/A        | Non-shielded, 0.5m |
| B       | WLAN cable | N/A          | N/A            | N/A        | Non-shielded, 10m  |

## 1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



### 1.7.EUT Exercise Software

|   |                                                                                                                  |
|---|------------------------------------------------------------------------------------------------------------------|
| 1 | Setup the EUT and simulators as shown on above.                                                                  |
| 2 | Turn on the power of equipment.                                                                                  |
| 3 | Run RF software [MTool 3.0.0.6], and set the test mode and channel, then press OK to start to continue transmit. |

## 2. Technical Test

### 2.1. Summary of Test Result

- ☒ No deviations from the test standards  
☐ Deviations from the test standards as below description:

| Performed Test Item                          | Normative References                                             | Limit         | Result |
|----------------------------------------------|------------------------------------------------------------------|---------------|--------|
| Conducted Emission                           | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.207            | FCC 15.207    | PASS   |
| Radiated Emission                            | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.209            | FCC 15.209    | PASS   |
| Emission bandwidth and<br>occupied bandwidth | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.407(a)         | FCC 15.407(e) | PASS   |
| 6dB Emission Bandwidth                       | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.407(a)         | FCC 15.407(e) | PASS   |
| Power Output                                 | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.407(a)         | FCC 15.407(a) | PASS   |
| Peak Power Spectral Density                  | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.407(a)         | FCC 15.407(a) | PASS   |
| Radiated Emission Band Edge                  | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.205, 15.407(b) | FCC 15.407(b) | PASS   |
| Frequency Stability                          | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.407(g)         | $\pm 20$ ppm  | PASS   |

### 2.2. Test Frequency configuration:

| Modulation Mode             | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|-----------------------------|---------|-----------|---------|-----------|---------|-----------|
| 802.11a/n/ac/ax<br>(20MHz)/ | 36      | 5180MHz   | 44      | 5220MHz   | 48      | 5240MHz   |
|                             | 52      | 5260MHz   | 60      | 5300MHz   | 64      | 5320MHz   |
|                             | 100     | 5500MHz   | 116     | 5580MHz   | 132     | 5700MHz   |
|                             | 144     | 5720MHz   | 149     | 5745MHz   | 157     | 5785MHz   |
|                             | 165     | 5825MHz   | N/A     | N/A       | N/A     | N/A       |
| 802.11n/ac/ax(40MHz)        | 38      | 5190MHz   | 46      | 5230MHz   | 54      | 5270MHz   |
|                             | 62      | 5310MHz   | 102     | 5510MHz   | 110     | 5550MHz   |
|                             | 134     | 5670MHz   | 142     | 5710MHz   | 151     | 5755MHz   |
|                             | 159     | 5795MHz   | N/A     | N/A       | N/A     | N/A       |
| 802.11ac/ax(80MHz)          | 42      | 5210MHz   | 58      | 5290MHz   | 106     | 5530MHz   |
|                             | 138     | 5690MHz   | 155     | 5775MHz   | N/A     | N/A       |

|                  |    |         |     |         |     |     |
|------------------|----|---------|-----|---------|-----|-----|
| 802.11ax(160MHz) | 50 | 5250MHz | 114 | 5570MHz | N/A | N/A |
|------------------|----|---------|-----|---------|-----|-----|

## 2.3. Power vs Data Rate

| MCS Index<br>for 802.11n | Spatial<br>Streams | Data Rate (Mbps) |         |         |                 |          |                 |          |
|--------------------------|--------------------|------------------|---------|---------|-----------------|----------|-----------------|----------|
|                          |                    | 802.11b          | 802.11g | 802.11a | 20MHz Bandwidth |          | 40MHz Bandwidth |          |
|                          |                    |                  |         |         | 800ns GI        | 400ns GI | 800ns GI        | 400ns GI |
| 0                        | 1                  | 1                | 6       | 6       | 6.5             | 7.2      | 13.5            | 15.0     |
| 1                        | 1                  | 2                | 9       | 9       | 13.0            | 14.4     | 27.0            | 30.0     |
| 2                        | 1                  | 5.5              | 12      | 12      | 19.5            | 21.7     | 40.5            | 45.0     |
| 3                        | 1                  | 11               | 18      | 18      | 26.0            | 28.9     | 54.0            | 60.0     |
| 4                        | 1                  | ---              | 24      | 24      | 39.0            | 43.3     | 81.0            | 90.0     |
| 5                        | 1                  | ---              | 36      | 36      | 52.0            | 57.8     | 108.0           | 120.0    |
| 6                        | 1                  | ---              | 48      | 48      | 58.5            | 65.0     | 121.5           | 135.0    |
| 7                        | 1                  | ---              | 54      | 54      | 65.0            | 72.2     | 135.0           | 150.0    |
| 8                        | 2                  | ---              | ---     | ---     | 13.0            | 14.4     | 27.0            | 30.0     |
| 9                        | 2                  | ---              | ---     | ---     | 26.0            | 28.9     | 54.0            | 60.0     |
| 10                       | 2                  | ---              | ---     | ---     | 39.0            | 43.3     | 81.0            | 90.0     |
| 11                       | 2                  | ---              | ---     | ---     | 52.0            | 57.8     | 108.0           | 120.0    |
| 12                       | 2                  | ---              | ---     | ---     | 78.0            | 86.7     | 162.0           | 180.0    |
| 13                       | 2                  | ---              | ---     | ---     | 104.0           | 115.6    | 216.0           | 240.0    |
| 14                       | 2                  | ---              | ---     | ---     | 117.0           | 130.0    | 243.0           | 270.0    |
| 15                       | 2                  | ---              | ---     | ---     | 130.0           | 144.0    | 270.0           | 300.0    |
| 16                       | 3                  | ---              | ---     | ---     | 19.5            | 21.6     | 40.5            | 45.0     |
| 17                       | 3                  | ---              | ---     | ---     | 39.0            | 43.2     | 81.0            | 90.0     |
| 18                       | 3                  | ---              | ---     | ---     | 58.5            | 65.1     | 121.5           | 135.0    |
| 19                       | 3                  | ---              | ---     | ---     | 78.0            | 86.7     | 162.0           | 180.0    |
| 20                       | 3                  | ---              | ---     | ---     | 117.0           | 129.9    | 243.0           | 270.0    |
| 21                       | 3                  | ---              | ---     | ---     | 156.0           | 173.4    | 324.0           | 360.0    |
| 22                       | 3                  | ---              | ---     | ---     | 175.5           | 195.0    | 364.5           | 405.0    |
| 23                       | 3                  | ---              | ---     | ---     | 195.0           | 216.6    | 405.0           | 450.0    |
| 24                       | 4                  | ---              | ---     | ---     | 26.0            | 28.8     | 54.0            | 60.0     |
| 25                       | 4                  | ---              | ---     | ---     | 52.0            | 57.6     | 108.0           | 120.0    |
| 26                       | 4                  | ---              | ---     | ---     | 78.0            | 86.8     | 162.0           | 180.0    |
| 27                       | 4                  | ---              | ---     | ---     | 104.0           | 115.6    | 216.0           | 240.0    |
| 28                       | 4                  | ---              | ---     | ---     | 156.0           | 173.2    | 324.0           | 360.0    |
| 29                       | 4                  | ---              | ---     | ---     | 208.0           | 231.2    | 432.0           | 480.0    |
| 30                       | 4                  | ---              | ---     | ---     | 234.0           | 260.0    | 486.0           | 540.0    |
| 31                       | 4                  | ---              | ---     | ---     | 260.0           | 288.8    | 540.0           | 600.0    |



**Note1: The blue form is the maximum power data rate.**

**2: The EUT supports four spatial streams.**

| Spatial Streams<br>(Note1) | MCS Index | Modulation type | Coding rate | Data Rate(Mb/s) |       |                |       |                |        |
|----------------------------|-----------|-----------------|-------------|-----------------|-------|----------------|-------|----------------|--------|
|                            |           |                 |             | 20MHz           |       | 40MHz          |       | 80MHz          |        |
|                            |           |                 |             | Guard Interval  |       | Guard Interval |       | Guard Interval |        |
|                            |           |                 |             | 800ns           | 400ns | 800ns          | 400ns | 800ns          | 400ns  |
| 1                          | 0         | BPSK            | 1/2         | 6.5             | 7.2   | 13.5           | 15    | 29.3           | 32.5   |
|                            | 1         | QPSK            | 1/2         | 13              | 14.4  | 27             | 30    | 58.5           | 65     |
|                            | 2         | QPSK            | 3/4         | 19.5            | 21.7  | 40.5           | 45    | 87.8           | 97.5   |
|                            | 3         | 16-QAM          | 1/2         | 26              | 28.9  | 54             | 60    | 117            | 130    |
|                            | 4         | 16-QAM          | 3/4         | 39              | 43.3  | 81             | 90    | 175.5          | 195    |
|                            | 5         | 64-QAM          | 2/3         | 52              | 57.8  | 108            | 120   | 234            | 260    |
|                            | 6         | 64-QAM          | 3/4         | 58.5            | 65    | 121.5          | 135   | 263.3          | 292.5  |
|                            | 7         | 64-QAM          | 5/6         | 65              | 72.2  | 135            | 150   | 292.5          | 325    |
|                            | 8         | 256-QAM         | 3/4         | 78              | 86.7  | 162            | 180   | 351            | 390    |
|                            | 9         | 256-QAM         | 5/6         | N/A             | N/A   | 180            | 200   | 390            | 433.3  |
| 2                          | 10        | BPSK            | 1/2         | 13.0            | 14.4  | 27.0           | 30.0  | 58.6           | 65.0   |
|                            | 11        | QPSK            | 1/2         | 26.0            | 28.8  | 54.0           | 60.0  | 117.0          | 130.0  |
|                            | 12        | QPSK            | 3/4         | 39.0            | 43.4  | 81.0           | 90.0  | 175.6          | 195.0  |
|                            | 13        | 16-QAM          | 1/2         | 52.0            | 57.8  | 108.0          | 120.0 | 234.0          | 260.0  |
|                            | 14        | 16-QAM          | 3/4         | 78.0            | 86.6  | 162.0          | 180.0 | 351.0          | 390.0  |
|                            | 15        | 64-QAM          | 2/3         | 104.0           | 115.6 | 216.0          | 240.0 | 468.0          | 520.0  |
|                            | 16        | 64-QAM          | 3/4         | 117.0           | 130.0 | 243.0          | 270.0 | 526.6          | 585.0  |
|                            | 17        | 64-QAM          | 5/6         | 130.0           | 144.4 | 270.0          | 300.0 | 585.0          | 650.0  |
|                            | 18        | 256-QAM         | 3/4         | 156.0           | 173.4 | 324.0          | 360.0 | 702.0          | 780.0  |
|                            | 19        | 256-QAM         | 5/6         | N/A             | N/A   | 360.0          | 400.0 | 780.0          | 866.6  |
| 3                          | 20        | BPSK            | 1/2         | 19.5            | 21.6  | 40.5           | 45.0  | 87.9           | 97.5   |
|                            | 21        | QPSK            | 1/2         | 39.0            | 43.2  | 81.0           | 90.0  | 175.5          | 195.0  |
|                            | 22        | QPSK            | 3/4         | 58.5            | 65.1  | 121.5          | 135.0 | 263.4          | 292.5  |
|                            | 23        | 16-QAM          | 1/2         | 78.0            | 86.7  | 162.0          | 180.0 | 351.0          | 390.0  |
|                            | 24        | 16-QAM          | 3/4         | 117.0           | 129.9 | 243.0          | 270.0 | 526.5          | 585.0  |
|                            | 25        | 64-QAM          | 2/3         | 156.0           | 173.4 | 324.0          | 360.0 | 702.0          | 780.0  |
|                            | 26        | 64-QAM          | 3/4         | 175.5           | 195.0 | 364.5          | 405.0 | 789.9          | 877.5  |
|                            | 27        | 64-QAM          | 5/6         | 195.0           | 216.6 | 405.0          | 450.0 | 877.5          | 975.0  |
|                            | 28        | 256-QAM         | 3/4         | 234.0           | 260.1 | 486.0          | 540.0 | 1053.0         | 1170.0 |
|                            | 29        | 256-QAM         | 5/6         | N/A             | N/A   | 540.0          | 600.0 | 1170.0         | 1299.9 |
| 4                          | 30        | BPSK            | 1/2         | 26.0            | 28.8  | 54.0           | 60.0  | 117.2          | 130.0  |
|                            | 31        | QPSK            | 1/2         | 52.0            | 57.6  | 108.0          | 120.0 | 234.0          | 260.0  |
|                            | 32        | QPSK            | 3/4         | 78.0            | 86.8  | 162.0          | 180.0 | 351.2          | 390.0  |

|                                                              |    |         |     |       |       |       |       |        |        |
|--------------------------------------------------------------|----|---------|-----|-------|-------|-------|-------|--------|--------|
|                                                              | 33 | 16-QAM  | 1/2 | 104.0 | 115.6 | 216.0 | 240.0 | 468.0  | 520.0  |
|                                                              | 34 | 16-QAM  | 3/4 | 156.0 | 173.2 | 324.0 | 360.0 | 702.0  | 780.0  |
|                                                              | 35 | 64-QAM  | 2/3 | 208.0 | 231.2 | 432.0 | 480.0 | 936.0  | 1040.0 |
|                                                              | 36 | 64-QAM  | 3/4 | 234.0 | 260.0 | 486.0 | 540.0 | 1053.2 | 1170.0 |
|                                                              | 37 | 64-QAM  | 5/6 | 260.0 | 288.8 | 540.0 | 600.0 | 1170.0 | 1300.0 |
|                                                              | 38 | 256-QAM | 3/4 | 312.0 | 346.8 | 648.0 | 720.0 | 1404.0 | 1560.0 |
|                                                              | 39 | 256-QAM | 5/6 | N/A   | N/A   | 720.0 | 800.0 | 1560.0 | 1733.2 |
| <b>Note 1: The blue form is the maximum power data rate.</b> |    |         |     |       |       |       |       |        |        |
| <b>2: The EUT supports four spatial streams.</b>             |    |         |     |       |       |       |       |        |        |

| Spatial Streams<br>(Note1) | MCS Index | Modulation type | Coding rate | Data Rate(Mb/s) |              |                |              |                |              |                |              |
|----------------------------|-----------|-----------------|-------------|-----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
|                            |           |                 |             | 20MHz           |              | 40MHz          |              | 80MHz          |              | 160MHz         |              |
|                            |           |                 |             | Guard Interval  |              | Guard Interval |              | Guard Interval |              | Guard Interval |              |
|                            |           |                 |             | 1600 ns<br>GI   | 800 ns<br>GI | 1600 ns<br>GI  | 800 ns<br>GI | 1600 ns<br>GI  | 800 ns<br>GI | 1600 ns<br>GI  | 800 ns<br>GI |
| 1                          | 0         | BPSK            | 1/2         | 4               | 4            | 8              | 9            | 17             | 18           | 34             | 36           |
|                            | 1         | QPSK            | 1/2         | 16              | 17           | 33             | 34           | 68             | 72           | 136            | 144          |
|                            | 2         | QPSK            | 3/4         | 24              | 26           | 49             | 52           | 102            | 108          | 204            | 216          |
|                            | 3         | 16-QAM          | 1/2         | 33              | 34           | 65             | 69           | 136            | 144          | 272            | 282          |
|                            | 4         | 16-QAM          | 3/4         | 49              | 52           | 98             | 103          | 204            | 216          | 408            | 432          |
|                            | 5         | 64-QAM          | 2/3         | 65              | 69           | 130            | 138          | 272            | 288          | 544            | 576          |
|                            | 6         | 64-QAM          | 3/4         | 73              | 77           | 146            | 155          | 306            | 324          | 613            | 649          |
|                            | 7         | 64-QAM          | 5/6         | 81              | 86           | 163            | 172          | 340            | 360          | 681            | 721          |
|                            | 8         | 256-QAM         | 3/4         | 98              | 103          | 195            | 207          | 408            | 432          | 817            | 865          |
|                            | 9         | 256-QAM         | 5/6         | 108             | 115          | 217            | 229          | 453            | 480          | 907            | 961          |
|                            | 10        | 1024-QAM        | 3/4         | 122             | 129          | 244            | 258          | 510            | 540          | 1021           | 1081         |
|                            | 11        | 1024-QAM        | 5/6         | 135             | 143          | 271            | 287          | 567            | 600          | 1134           | 1201         |
| 2                          | 12        | BPSK            | 1/2         | 8               | 8            | 16             | 18           | 34             | 36           | 68             | 72           |
|                            | 13        | QPSK            | 1/2         | 32              | 34           | 66             | 68           | 136            | 144          | 272            | 288          |
|                            | 14        | QPSK            | 3/4         | 48              | 52           | 98             | 104          | 204            | 216          | 408            | 432          |
|                            | 15        | 16-QAM          | 1/2         | 66              | 68           | 130            | 138          | 272            | 288          | 544            | 564          |
|                            | 16        | 16-QAM          | 3/4         | 98              | 104          | 196            | 206          | 408            | 432          | 816            | 864          |
|                            | 17        | 64-QAM          | 2/3         | 130             | 138          | 260            | 276          | 544            | 576          | 1088           | 1152         |
|                            | 18        | 64-QAM          | 3/4         | 146             | 154          | 292            | 310          | 612            | 648          | 1226           | 1298         |
|                            | 19        | 64-QAM          | 5/6         | 162             | 172          | 326            | 344          | 680            | 720          | 1362           | 1442         |
|                            | 20        | 256-QAM         | 3/4         | 196             | 206          | 390            | 414          | 816            | 864          | 1634           | 1730         |
|                            | 21        | 256-QAM         | 5/6         | 216             | 230          | 434            | 458          | 906            | 960          | 1814           | 1922         |
|                            | 22        | 1024-QAM        | 3/4         | 244             | 258          | 488            | 516          | 1020           | 1080         | 2042           | 2162         |
|                            | 23        | 1024-QAM        | 5/6         | 270             | 286          | 542            | 574          | 1134           | 1200         | 2268           | 2402         |
| 3                          | 24        | BPSK            | 1/2         | 12              | 12           | 24             | 27           | 51             | 54           | 102            | 108          |
|                            | 25        | QPSK            | 1/2         | 48              | 51           | 99             | 102          | 204            | 216          | 408            | 432          |
|                            | 26        | QPSK            | 3/4         | 72              | 78           | 147            | 156          | 306            | 324          | 612            | 648          |
|                            | 27        | 16-QAM          | 1/2         | 99              | 102          | 195            | 207          | 408            | 432          | 816            | 846          |
|                            | 28        | 16-QAM          | 3/4         | 147             | 156          | 294            | 309          | 612            | 648          | 1224           | 1296         |
|                            | 29        | 64-QAM          | 2/3         | 195             | 207          | 390            | 414          | 816            | 864          | 1632           | 1728         |
|                            | 30        | 64-QAM          | 3/4         | 219             | 231          | 438            | 465          | 918            | 972          | 1839           | 1947         |
|                            | 31        | 64-QAM          | 5/6         | 243             | 258          | 489            | 516          | 1020           | 1080         | 2043           | 2163         |

|                                                                                                               |    |          |     |     |     |      |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------|----|----------|-----|-----|-----|------|------|------|------|------|------|
|                                                                                                               | 32 | 256-QAM  | 3/4 | 294 | 309 | 585  | 621  | 1224 | 1296 | 2451 | 2595 |
|                                                                                                               | 33 | 256-QAM  | 5/6 | 324 | 345 | 651  | 687  | 1359 | 1440 | 2721 | 2883 |
|                                                                                                               | 34 | 1024-QAM | 3/4 | 366 | 387 | 732  | 774  | 1530 | 1620 | 3063 | 3243 |
|                                                                                                               | 35 | 1024-QAM | 5/6 | 405 | 429 | 813  | 861  | 1701 | 1800 | 3402 | 3603 |
| 4                                                                                                             | 36 | BPSK     | 1/2 | 16  | 16  | 32   | 36   | 68   | 72   | 136  | 144  |
|                                                                                                               | 37 | QPSK     | 1/2 | 64  | 68  | 132  | 136  | 272  | 288  | 544  | 576  |
|                                                                                                               | 38 | QPSK     | 3/4 | 96  | 104 | 196  | 208  | 408  | 432  | 816  | 864  |
|                                                                                                               | 39 | 16-QAM   | 1/2 | 132 | 136 | 260  | 276  | 544  | 576  | 1088 | 1128 |
|                                                                                                               | 40 | 16-QAM   | 3/4 | 196 | 208 | 392  | 412  | 816  | 864  | 1632 | 1728 |
|                                                                                                               | 41 | 64-QAM   | 2/3 | 260 | 276 | 520  | 552  | 1088 | 1152 | 2176 | 2304 |
|                                                                                                               | 42 | 64-QAM   | 3/4 | 292 | 308 | 584  | 620  | 1224 | 1296 | 2452 | 2596 |
|                                                                                                               | 43 | 64-QAM   | 5/6 | 324 | 344 | 652  | 688  | 1360 | 1440 | 2724 | 2884 |
|                                                                                                               | 44 | 256-QAM  | 3/4 | 392 | 412 | 780  | 828  | 1632 | 1728 | 3268 | 3460 |
|                                                                                                               | 45 | 256-QAM  | 5/6 | 432 | 460 | 868  | 916  | 1812 | 1920 | 3628 | 3844 |
|                                                                                                               | 46 | 1024-QAM | 3/4 | 488 | 516 | 976  | 1032 | 2040 | 2160 | 4084 | 4324 |
|                                                                                                               | 47 | 1024-QAM | 5/6 | 540 | 572 | 1084 | 1148 | 2268 | 2400 | 4536 | 4804 |
| <p>Note 1: The blue form is the maximum power data rate.</p> <p>2: The EUT supports four spatial streams.</p> |    |          |     |     |     |      |      |      |      |      |      |

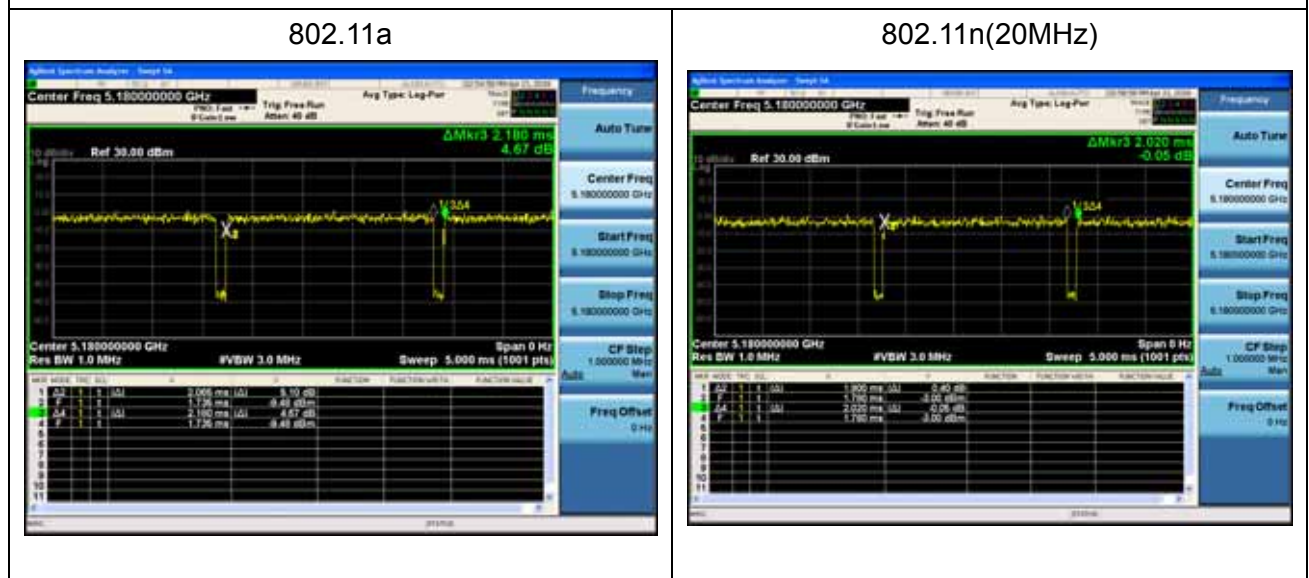
## 2.4. Duty Cycle

### CDD:

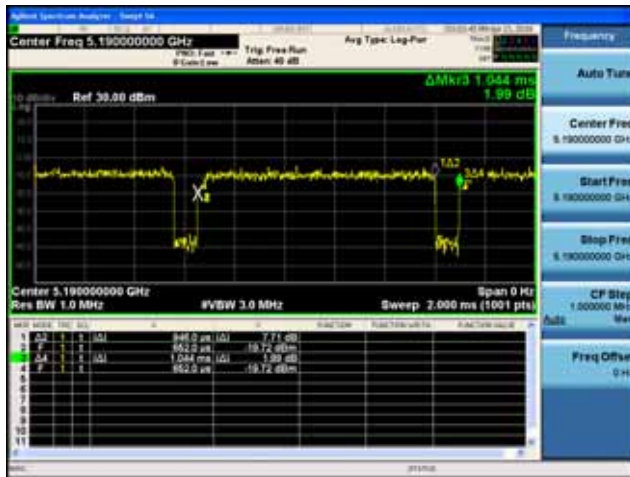
| Test Mode        | Tx On (ms) | Tx Off (ms) | VBW(Hz) | Tx On + Tx Off (ms) | Duty Cycle |
|------------------|------------|-------------|---------|---------------------|------------|
| 802.11a          | 2.065      | 0.115       | 510     | 2.180               | 94.72%     |
| 802.11n(20MHz)   | 1.900      | 0.12        | 560     | 2.020               | 94.06%     |
| 802.11n(40MHz)   | 0.946      | 0.098       | 1.1k    | 1.044               | 90.61%     |
| 802.11ac(20MHz)  | 1.905      | 0.045       | 560     | 1.950               | 97.69%     |
| 802.11ac(40MHz)  | 0.912      | 0.07        | 1.1k    | 0.982               | 92.87%     |
| 802.11ac(80MHz)  | 0.421      | 0.067       | 2.4k    | 0.488               | 86.27%     |
| 802.11ax(20MHz)  | 1.475      | 0.035       | 680     | 1.510               | 97.68%     |
| 802.11ax(40MHz)  | 0.728      | 0.074       | 1.5k    | 0.802               | 90.77%     |
| 802.11ax(80MHz)  | 0.361      | 0.071       | 3k      | 0.432               | 83.56%     |
| 802.11ax(160MHz) | 0.234      | 0.028       | 4.3k    | 0.262               | 89.31%     |

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

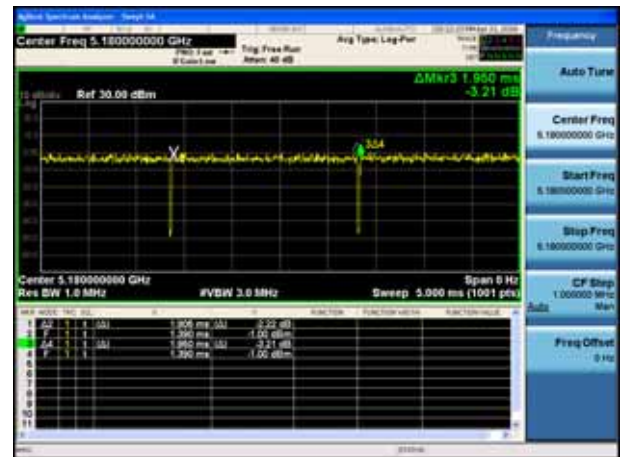
Note 2: According to KDB 789033, when test for Radiated Emission Band Edge and Radiated Emission,  $VBW \geq 1/T$  will be used.



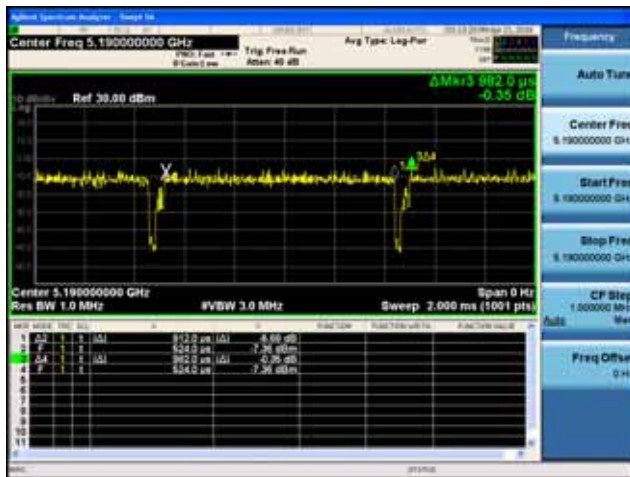
802.11n(40MHz)



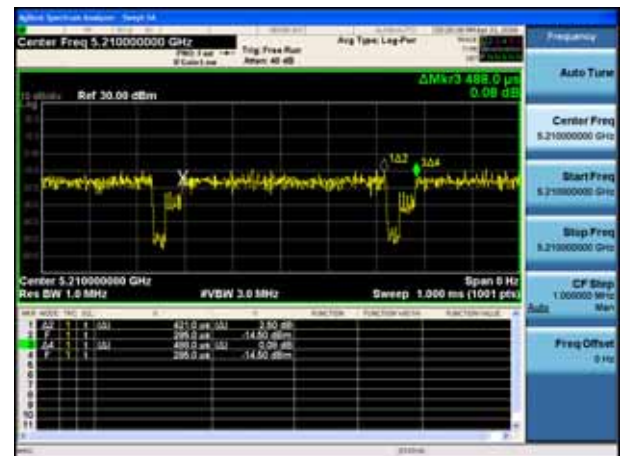
802.11ac(20MHz)



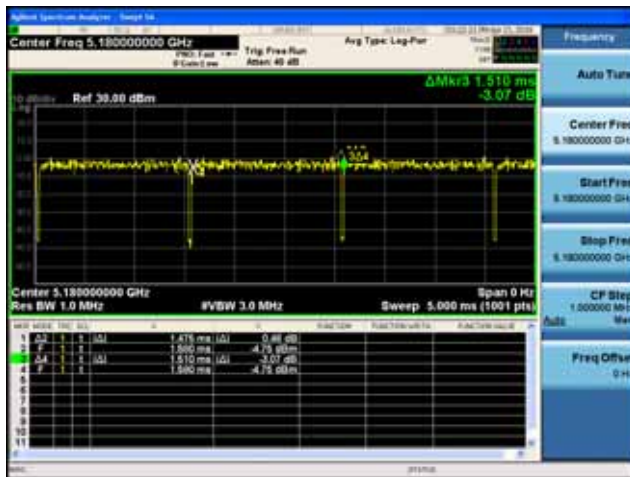
802.11ac(40MHz)



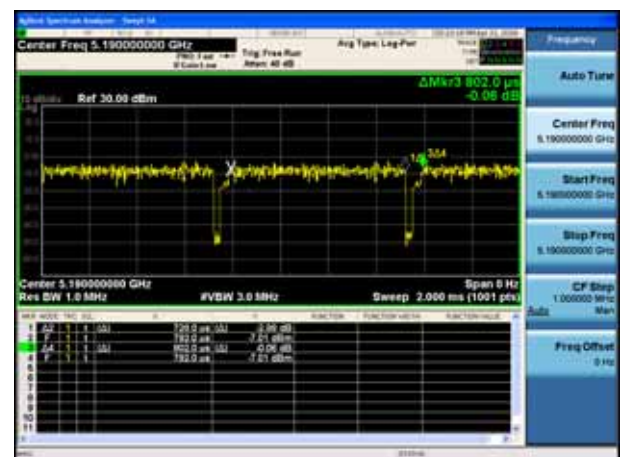
802.11ac(80MHz)



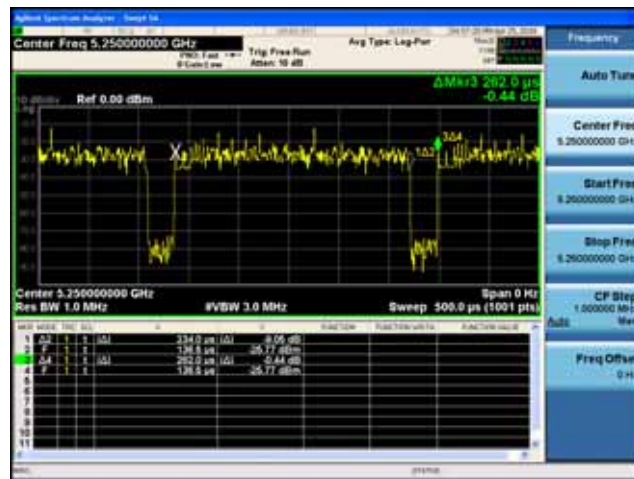
802.11ax(20MHz)



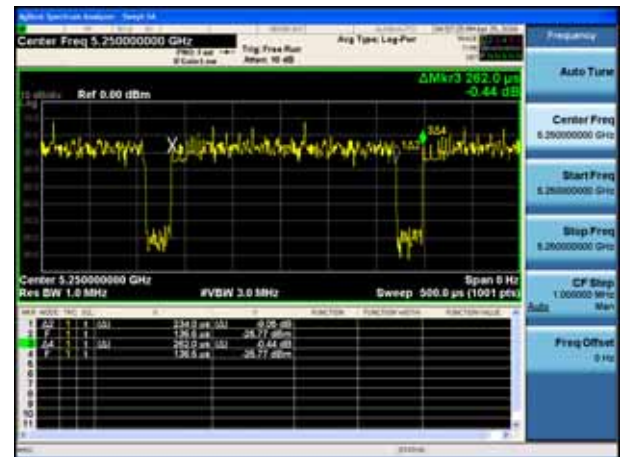
802.11ax(40MHz)



802.11ax(80MHz)



802.11ax(160MHz)





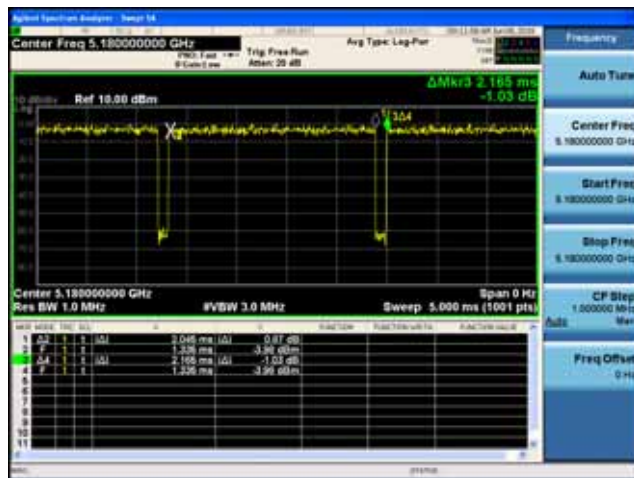
### Beam-forming:

| Test Mode        | Tx On (ms) | Tx Off (ms) | VBW(Hz) | Tx On + Tx Off (ms) | Duty Cycle |
|------------------|------------|-------------|---------|---------------------|------------|
| 802.11a          | 2.045      | 0.12        | 510     | 2.165               | 94.46%     |
| 802.11n(20MHz)   | 1.915      | 0.105       | 560     | 2.020               | 94.80%     |
| 802.11n(40MHz)   | 0.944      | 0.106       | 1.1k    | 1.050               | 89.90%     |
| 802.11ac(20MHz)  | 1.905      | 0.05        | 560     | 1.955               | 97.44%     |
| 802.11ac(40MHz)  | 0.944      | 0.036       | 1.1k    | 0.980               | 96.33%     |
| 802.11ac(80MHz)  | 0.459      | 0.03        | 2.2k    | 0.489               | 93.87%     |
| 802.11ax(20MHz)  | 1.473      | 0.048       | 680     | 1.521               | 96.84%     |
| 802.11ax(40MHz)  | 0.762      | 0.042       | 1.5k    | 0.804               | 94.78%     |
| 802.11ax(80MHz)  | 0.401      | 0.032       | 2.7k    | 0.433               | 92.61%     |
| 802.11ax(160MHz) | 0.233      | 0.028       | 4.3     | 0.261               | 89.27%     |

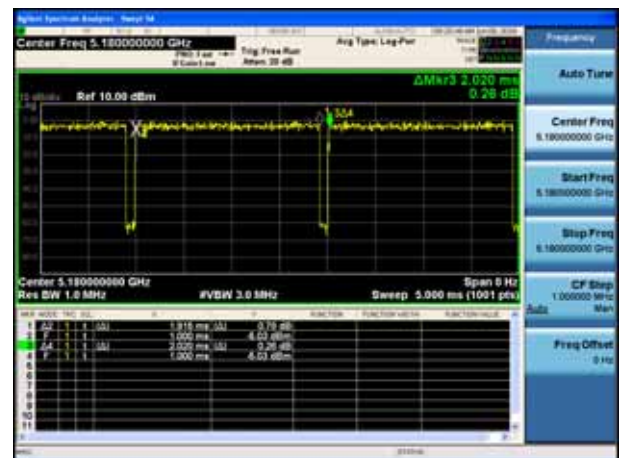
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 2: According to KDB 789033, when test for Radiated Emission Band Edge and Radiated Emission,  $VBW \geq 1/T$  will be used.

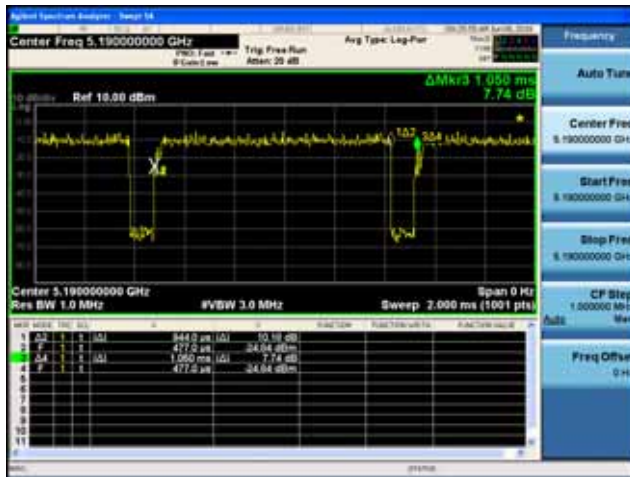
802.11a



802.11n(20MHz)



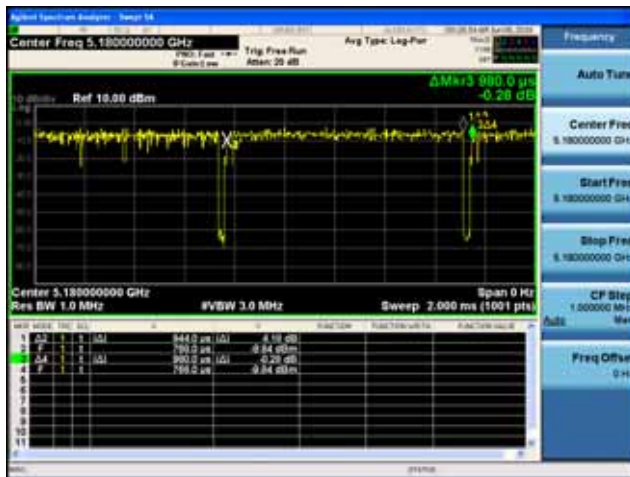
802.11n(40MHz)



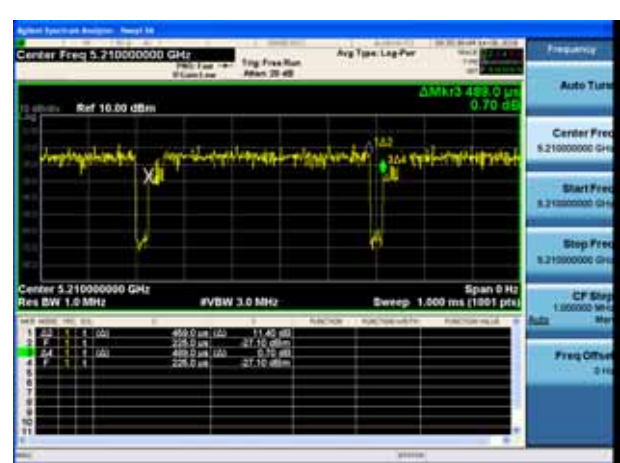
802.11ac(20MHz)



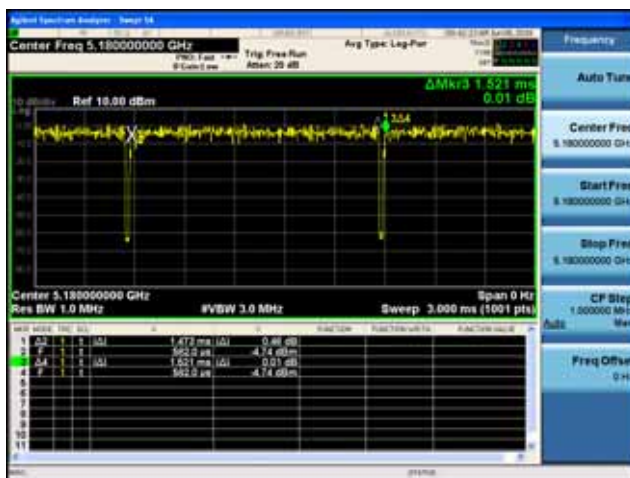
802.11ac(40MHz)



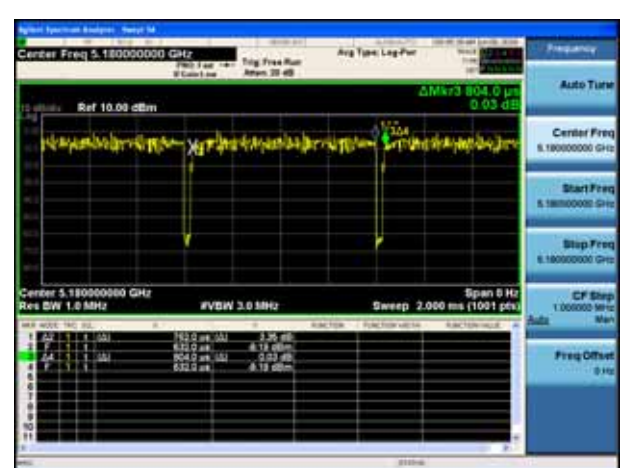
802.11ac(80MHz)



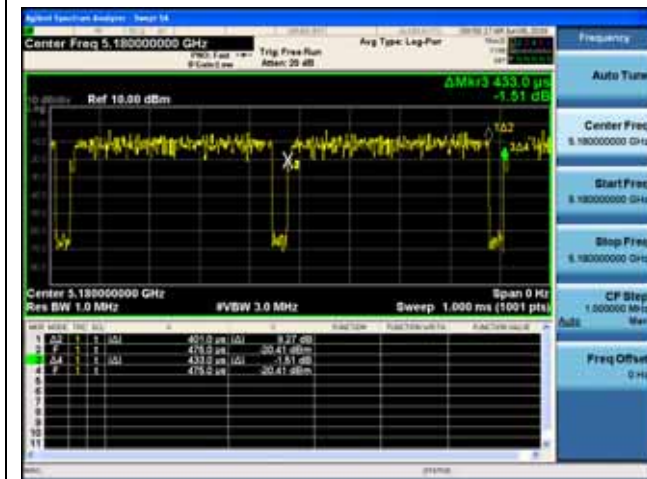
802.11ax(20MHz)



802.11ax(40MHz)



802.11ax(80MHz)



802.11ax(160MHz)



## 2.5. Test Environment

| Items                      | Required (IEC 68-1) | Actual   |
|----------------------------|---------------------|----------|
| Temperature (°C)           | 15-35               | 21       |
| Humidity (%RH)             | 25-75               | 50       |
| Barometric pressure (mbar) | 860-1060            | 950-1000 |

## 2.6. Uncertainty

| Test Items                         | Uncertainty                    |
|------------------------------------|--------------------------------|
| AC Power Line Conducted Emission   | $\pm 2.02\text{dB}$            |
| Radiated Emission                  | Below 1GHz $\pm 3.8\text{ dB}$ |
|                                    | Above 1GHz $\pm 3.9\text{ dB}$ |
| RF Antenna Port Conducted Emission | $\pm 1.27\text{dB}$            |
| Radiated Emission Band Edge        | $\pm 3.9\text{dB}$             |
| Occupied Bandwidth                 | $\pm 1\text{kHz}$              |
| Power Spectral Density             | $\pm 1.27\text{dB}$            |
| Frequency Stability                | $\pm 100\text{ Hz}$            |

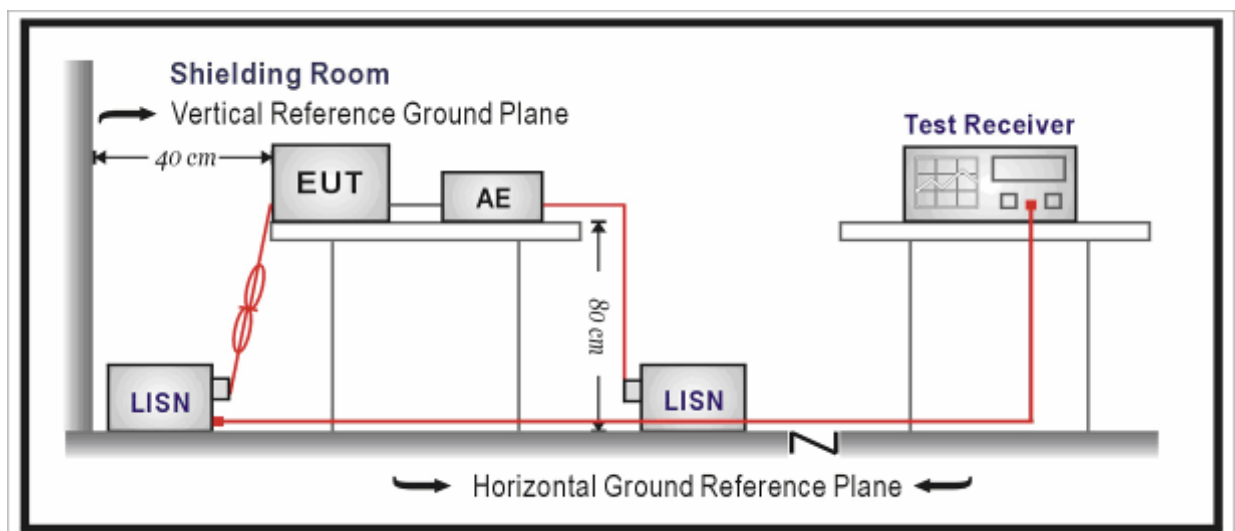
### 3. Conducted Emission

#### 3.1. Test Equipment

| Conducted Emission / TR-1  |              |          |            |            |               |
|----------------------------|--------------|----------|------------|------------|---------------|
| Instrument                 | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| EMI Test Receiver          | R&S          | ESCI     | 100906     | 2018.03.05 | 2019.03.04    |
| Two-Line V-Network         | R&S          | ENV 216  | 101189     | 2018.06.16 | 2019.06.15    |
| Two-Line V-Network         | R&S          | ENV 216  | 101044     | 2018.09.16 | 2019.09.15    |
| 50ohm Coaxial Switch       | Anritsu      | MP59B    | 6200464462 | N/A        | N/A           |
| 50ohm Termination          | SHX          | TF2      | 07081402   | 2018.09.16 | 2019.09.15    |
| Temperature/Humidity Meter | Zhichen      | ZC1-2    | TR1-TH     | 2018.01.05 | 2019.01.04    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

#### 3.2. Test Setup



### 3.3. Limit

| Frequency<br>(MHz) | QP<br>(dB $\mu$ V) | AV<br>(dB $\mu$ V) |
|--------------------|--------------------|--------------------|
| 0.15 - 0.50        | 66 – 56            | 56 – 46            |
| 0.50 - 5.0         | 56                 | 46                 |
| 5.0 - 30           | 60                 | 50                 |

Note 1: The lower limit shall apply at the transition frequencies.

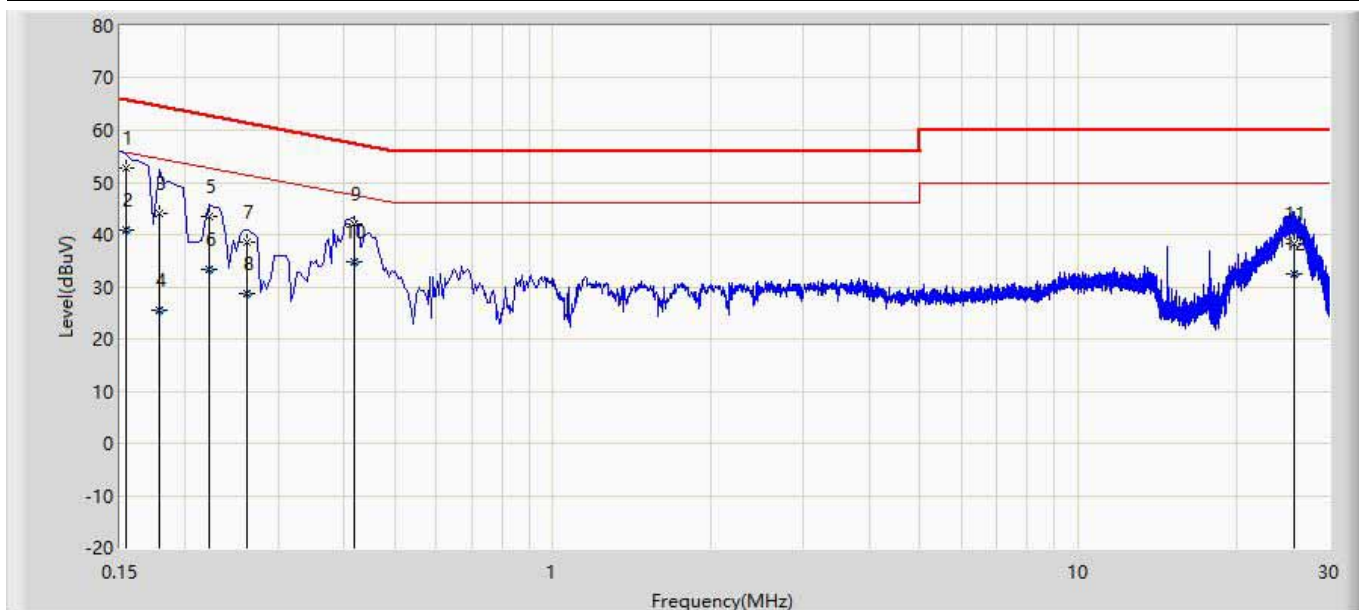
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

### 3.4. Test Procedure

| Test Method                         |                  |         |                                                                                             |
|-------------------------------------|------------------|---------|---------------------------------------------------------------------------------------------|
|                                     | References Rule  | Chapter | Item                                                                                        |
| <input checked="" type="checkbox"/> | ANSI C63.10-2013 | 6.2     | Standard test method for ac power-line conducted emissions from unlicensed wireless devices |

### 3.5. Test Result

|                                   |                     |
|-----------------------------------|---------------------|
| Site: TR1                         | Time: 2018/06/29    |
| Limit: FCC_Part15.207_CE_AC Power | Margin: 0           |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Line      |
| EUT: Wireless Access Point        | Power: AC 120V/60Hz |
| Note: Mode 1                      |                     |



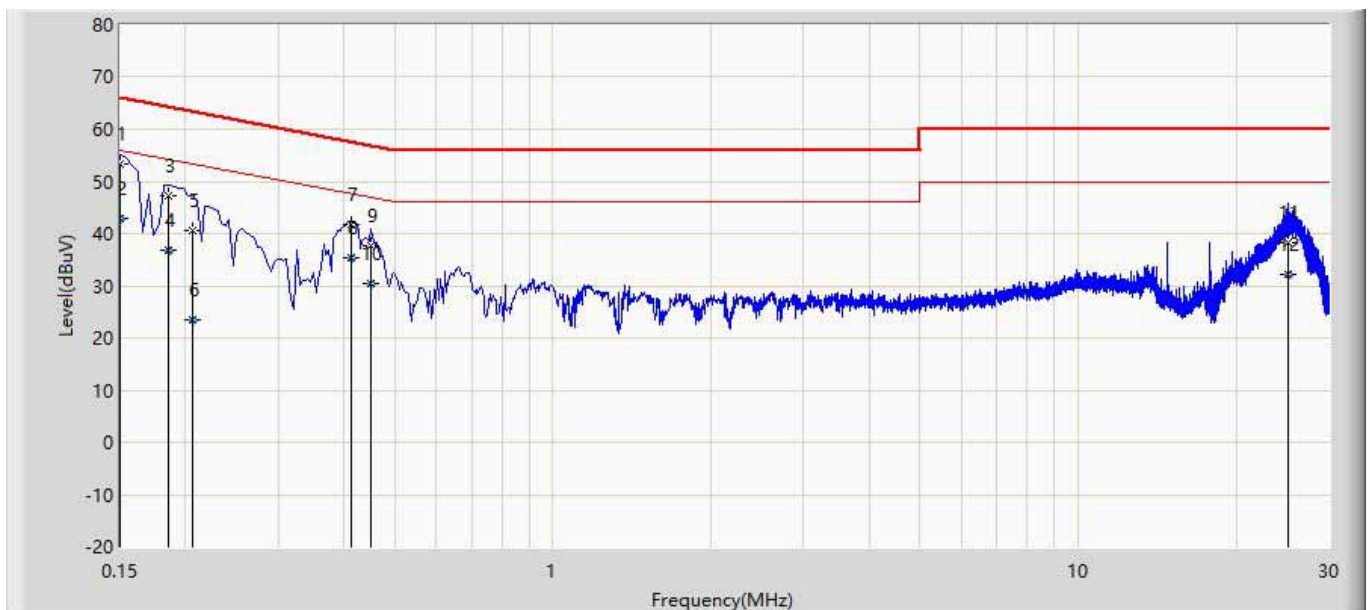
| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1  | *    | 0.154           | 52.824               | 43.189               | -13.062         | 65.886       | 9.609      | 0.025      | 0.000    | QP   |
| 2  |      | 0.154           | 40.753               | 31.119               | -15.133         | 55.886       | 9.609      | 0.025      | 0.000    | AV   |
| 3  |      | 0.178           | 44.058               | 34.426               | -21.142         | 65.200       | 9.604      | 0.028      | 0.000    | QP   |
| 4  |      | 0.178           | 25.473               | 15.841               | -29.727         | 55.200       | 9.604      | 0.028      | 0.000    | AV   |
| 5  |      | 0.222           | 43.573               | 33.943               | -20.370         | 63.943       | 9.600      | 0.029      | 0.000    | QP   |
| 6  |      | 0.222           | 33.352               | 23.723               | -20.591         | 53.943       | 9.600      | 0.029      | 0.000    | AV   |
| 7  |      | 0.262           | 38.548               | 28.916               | -24.252         | 62.800       | 9.600      | 0.032      | 0.000    | QP   |
| 8  |      | 0.262           | 28.749               | 19.117               | -24.051         | 52.800       | 9.600      | 0.032      | 0.000    | AV   |
| 9  |      | 0.418           | 41.968               | 32.329               | -16.375         | 58.343       | 9.600      | 0.039      | 0.000    | QP   |
| 10 |      | 0.418           | 34.874               | 25.235               | -13.469         | 48.343       | 9.600      | 0.039      | 0.000    | AV   |
| 11 |      | 25.778          | 38.206               | 27.420               | -21.794         | 60.000       | 10.456     | 0.330      | 0.000    | QP   |
| 12 |      | 25.778          | 32.331               | 21.545               | -17.669         | 50.000       | 10.456     | 0.330      | 0.000    | AV   |

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).



|                                   |                     |
|-----------------------------------|---------------------|
| Site: TR1                         | Time: 2018/06/29    |
| Limit: FCC_Part15.207_CE_AC Power | Margin: 0           |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Neutral   |
| EUT: Wireless Access Point        | Power: AC 120V/60Hz |
| Note: Mode 1                      |                     |



| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1  | *    | 0.150           | 53.411               | 43.792               | -12.589         | 66.000       | 9.594      | 0.025      | 0.000    | QP   |
| 2  |      | 0.150           | 42.996               | 33.377               | -13.004         | 56.000       | 9.594      | 0.025      | 0.000    | AV   |
| 3  |      | 0.186           | 47.231               | 37.605               | -17.740         | 64.971       | 9.597      | 0.028      | 0.000    | QP   |
| 4  |      | 0.186           | 36.691               | 27.066               | -18.280         | 54.971       | 9.597      | 0.028      | 0.000    | AV   |
| 5  |      | 0.206           | 40.708               | 31.080               | -23.692         | 64.400       | 9.599      | 0.029      | 0.000    | QP   |
| 6  |      | 0.206           | 23.488               | 13.861               | -30.912         | 54.400       | 9.599      | 0.029      | 0.000    | AV   |
| 7  |      | 0.414           | 41.613               | 31.982               | -16.844         | 58.457       | 9.592      | 0.039      | 0.000    | QP   |
| 8  |      | 0.414           | 35.339               | 25.708               | -13.118         | 48.457       | 9.592      | 0.039      | 0.000    | AV   |
| 9  |      | 0.450           | 37.691               | 28.058               | -19.738         | 57.429       | 9.591      | 0.041      | 0.000    | QP   |
| 10 |      | 0.450           | 30.512               | 20.879               | -16.917         | 47.429       | 9.591      | 0.041      | 0.000    | AV   |
| 11 |      | 25.022          | 38.172               | 27.188               | -21.828         | 60.000       | 10.660     | 0.324      | 0.000    | QP   |
| 12 |      | 25.022          | 32.215               | 21.231               | -17.785         | 50.000       | 10.660     | 0.324      | 0.000    | AV   |

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).



## 4. Radiated Emission

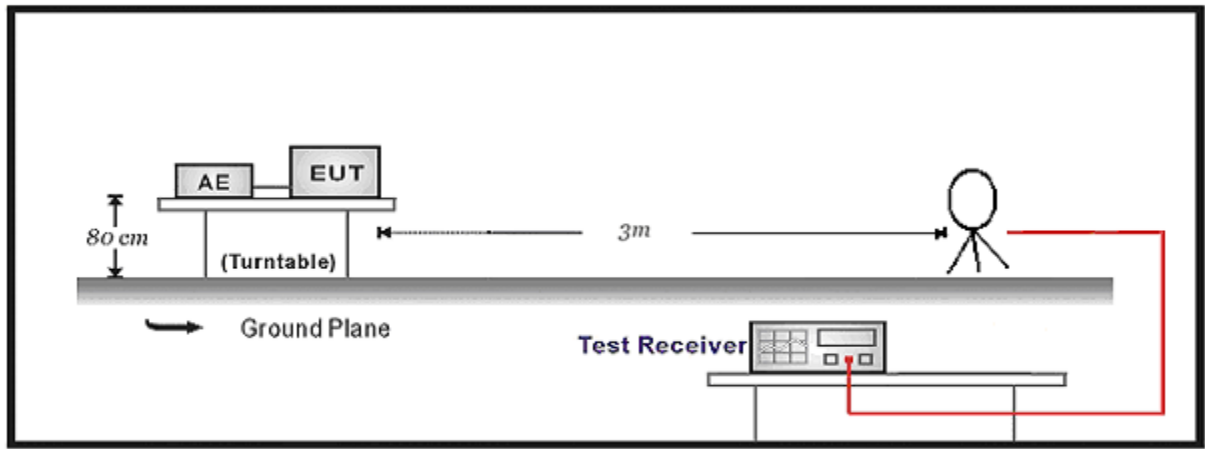
### 4.1. Test Equipment

| Radiated Emission / AC-2   |              |              |            |            |               |
|----------------------------|--------------|--------------|------------|------------|---------------|
| Instrument                 | Manufacturer | Type No.     | Serial No. | Cal. Date  | Cal. Due Date |
| EMI Test Receiver          | R&S          | ESCI         | 100573     | 2018.03.29 | 2019.03.28    |
| Loop Antenna               | R&S          | HFH2-Z2      | 833799/003 | 2017.11.16 | 2018.11.15    |
| Bilog Antenna              | Teseq GmbH   | CBL6112D     | 27611      | 2017.10.16 | 2018.10.15    |
| Coaxial Cable              | Huber+Suhner | SUCOFLEX 106 | AC2-C      | 2018.03.02 | 2019.03.01    |
| Temperature/Humidity Meter | Zhichen      | ZC1-2        | AC2-TH     | 2018.01.04 | 2019.01.03    |

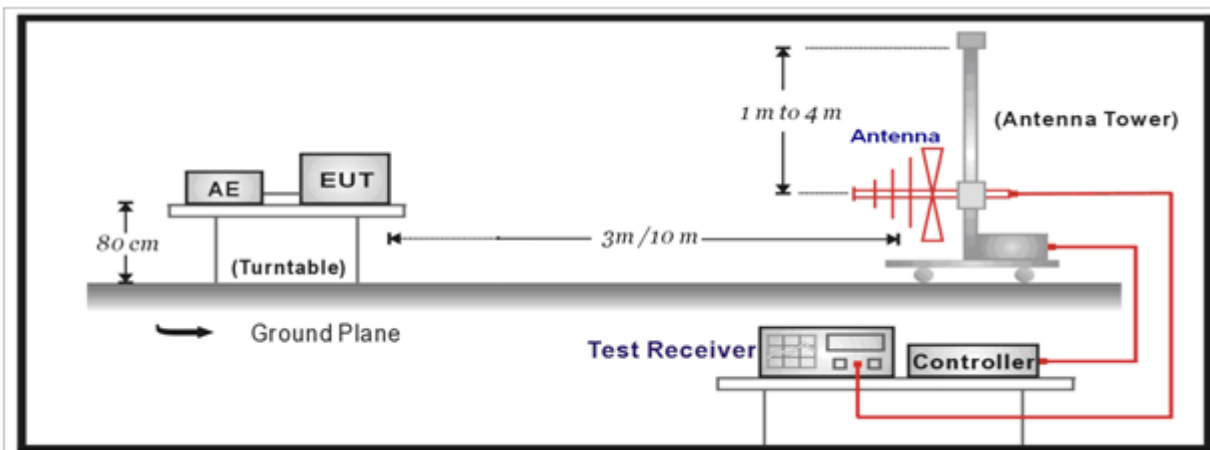
| Radiated Emission / AC-5                                                                                                                  |                                                    |              |             |            |               |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------|-------------|------------|---------------|
| Instrument                                                                                                                                | Manufacturer                                       | Type No.     | Serial No.  | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer                                                                                                                         | Agilent                                            | E4446A       | MY45300103  | 2018.01.04 | 2019.01.03    |
| Preamplifier                                                                                                                              | Miteq                                              | NSP1800-25   | 1364185     | 2018.05.06 | 2019.05.05    |
| Preamplifier                                                                                                                              | DEKRA Testing and Certification (Suzhou) Co., Ltd. | AP-040G      | CHM-0906001 | 2018.05.06 | 2019.05.05    |
| DRG Horn                                                                                                                                  | ETS-Lindgren                                       | 3117         | 00123988    | 2018.01.22 | 2019.01.21    |
| Broad-Band Horn Antenna                                                                                                                   | Schwarzbeck                                        | BBHA9170     | 294         | 2017.11.25 | 2018.11.24    |
| Coaxial Cable                                                                                                                             | Huber+Suhner                                       | SUCOFLEX 106 | AC5-C1      | 2018.03.02 | 2019.03.01    |
| Coaxial Cable                                                                                                                             | Huber+Suhner                                       | SUCOFLEX 106 | AC5-C2      | 2018.03.02 | 2019.03.01    |
| Coaxial Cable                                                                                                                             | Huber+Suhner                                       | SUCOFLEX 102 | AC5-C3      | 2018.03.02 | 2019.03.01    |
| EMI Receiver                                                                                                                              | Agilent                                            | N9038A       | MY51210196  | 2018.06.10 | 2019.06.09    |
| Temperature/Humidity Meter                                                                                                                | Zhichen                                            | ZC1-2        | AC5-TH      | 2018.01.04 | 2019.01.03    |
| Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards. |                                                    |              |             |            |               |

## 4.2. Test Setup

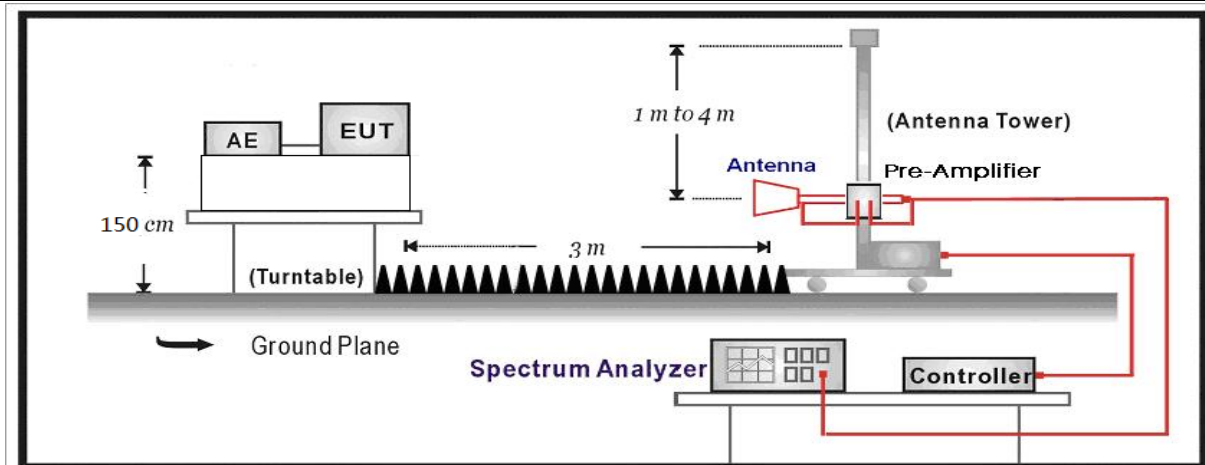
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



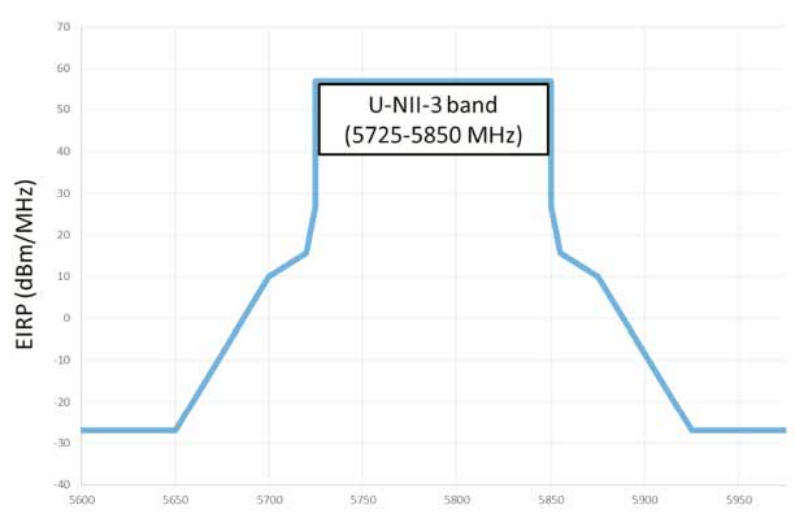
### 4.3. Limit

| FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit) |              |                      |
|--------------------------------------------------------------------------|--------------|----------------------|
| Frequency (MHz)                                                          | Distance (m) | Level (dB $\mu$ V/m) |
| 0.009-0.490                                                              | 300          | 2400/F(kHz)          |
| 0.490-1.705                                                              | 30           | 24000/F(kHz)         |
| 1.705-30.0                                                               | 30           | 30                   |
| 30-88                                                                    | 3            | 100**                |
| 88-216                                                                   | 3            | 150**                |
| 216-960                                                                  | 3            | 200**                |
| Above 960                                                                | 3            | 500                  |

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

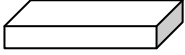
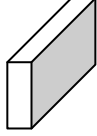
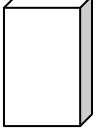
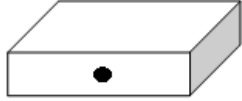
| FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band) |                       |                 |                 |
|----------------------------------------------------------|-----------------------|-----------------|-----------------|
| Frequency (MHz)                                          | Frequency (MHz)       | Frequency (MHz) | Frequency (GHz) |
| 0.090 – 0.110                                            | 16.42 – 16.423        | 399.9 – 410     | 4.5 – 5.15      |
| 0.495 – 0.505                                            | 16.69475 – 16.69525   | 608 – 614       | 5.35 – 5.46     |
| 2.1735 – 2.1905                                          | 16.80425 – 16.80475   | 960 – 1240      | 7.25 – 7.75     |
| 4.125 – 4.128                                            | 25.5 – 25.67          | 1300 – 1427     | 8.025 – 8.5     |
| 4.17725 – 4.17775                                        | 37.5 – 38.25          | 1435 – 1626.5   | 9.0 – 9.2       |
| 4.20725 – 4.20775                                        | 73 – 74.6             | 1645.5 – 1646.5 | 9.3 – 9.5       |
| 6.215 – 6.218                                            | 74.8 – 75.2           | 1660 – 1710     | 10.6 – 12.7     |
| 6.26775 – 6.26825                                        | 108 – 121.94          | 1718.8 – 1722.2 | 13.25 – 13.4    |
| 6.31175 – 6.31225                                        | 123 – 138             | 2200 – 2300     | 14.47 – 14.5    |
| 8.291 – 8.294                                            | 149.9 – 150.05        | 2310 – 2390     | 15.35 – 16.2    |
| 8.362 – 8.366                                            | 156.52475 – 156.52525 | 2483.5 – 2500   | 17.7 – 21.4     |
| 8.37625 – 8.38675                                        | 156.7 – 156.9         | 2690 – 2900     | 22.01 – 23.12   |
| 8.81425 – 8.81475                                        | 162.0125 – 167.17     | 3260 – 3267     | 23.6 – 24.0     |
| 12.29 – 12.293                                           | 167.72 – 173.2        | 3332 – 3339     | 31.2 – 31.8     |
| 12.51975 – 12.52025                                      | 240 – 285             | 3345.8 – 3358   | 36.43 – 36.5    |
| 12.57675 – 12.57725                                      | 322 – 335.4           | 3600 – 4400     |                 |
| 13.36 – 13.41                                            |                       |                 |                 |

| FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit) |                                                                                                                         |                                                |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Operating Frequency Band (MHz)                                                   | EIRP Limit (dBm/MHz)                                                                                                    | Equivalent Field Strength at 3m (dB $\mu$ V/m) |
| 5150 - 5250                                                                      | -27                                                                                                                     | 68.3                                           |
| 5250 - 5350                                                                      | -27                                                                                                                     | 68.3                                           |
| 5470 - 5725                                                                      | -27                                                                                                                     | 68.3                                           |
| Operating Frequency Band (MHz)                                                   | EIRP Limit (dBm/MHz)                                                                                                    |                                                |
| 5725 - 5850                                                                      |  <p>U-NII-3 band (5725-5850 MHz)</p> |                                                |

#### 4.4. Test Procedure

| Test Method                         |                                     |                          |          |                                                                                                  |
|-------------------------------------|-------------------------------------|--------------------------|----------|--------------------------------------------------------------------------------------------------|
|                                     | References Rule                     |                          | Chapter  | Description                                                                                      |
| <input type="checkbox"/>            | ANSI C63.10                         |                          | 12.7.3   | Emissions in non-restricted frequency bands                                                      |
| <input checked="" type="checkbox"/> | ANSI C63.10                         |                          | 12.7.2   | Emissions in restricted frequency bands                                                          |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.5   | Radiated emission measurements                                                                   |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.6   | Procedure for peak unwanted emissions measurements above 1000 MHz                                |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.7   | Procedures for average unwanted emissions measurements above 1000 MHz                            |
|                                     | <input type="checkbox"/>            | ANSI C63.10              | 12.7.7.2 | Method AD (average detection)—primary method                                                     |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.7.3 | Method VB-A (Alternative)                                                                        |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 6.4      | Radiated emissions from unlicensed wireless devices below 30 MHz                                 |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 6.5      | Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 6.6      | Radiated emissions from unlicensed wireless devices above 1 GHz                                  |
| <input type="checkbox"/>            | FCC KDB 789033 D02v02r01            |                          | G.2      | Unwanted Emissions that fall Outside of the Restricted Bands                                     |
| <input type="checkbox"/>            | FCC KDB 789033 D02v02r01            |                          | G.1      | Unwanted Emissions in the Restricted Bands                                                       |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.4      | Procedure for Unwanted Emissions Measurements below 1000 MHz                                     |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.5      | Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz                             |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.6      | Procedures for Average Unwanted Emissions Measurements above 1000 MHz                            |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.6.c    | Method AD (Average detection)—primary method                                                     |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.6.d    | Method VB (Averaging using reduced video bandwidth): Alternative method.                         |

#### 4.5.EUT test Axis definition

| Item            | Radiated Emission                                                                    |                                                                                      |                                                                                      |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Device Category | <input checked="" type="checkbox"/>                                                  | Indoor use                                                                           |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Outdoor use                                                                          |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Fix position use                                                                     |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Client use                                                                           |                                                                                      |                                                                                      |
| Test mode       | Mode 1-20                                                                            |                                                                                      |                                                                                      |                                                                                      |
| Test method     | <input checked="" type="checkbox"/>                                                  | Radiated                                                                             |                                                                                      |                                                                                      |
|                 |                                                                                      | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |
|                 |                                                                                      |   |  |  |
|                 |                                                                                      | Worst Axis <input checked="" type="checkbox"/>                                       | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |
|                 | <input type="checkbox"/>                                                             | Conducted                                                                            |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              |                                                                                      |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |
|                 |  |                                                                                      |                                                                                      |                                                                                      |

#### **4.6. Test Result**

Note:

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. As the radiated emission was performed, so conducted emission was not tested.
5. The data was too large so was showed in below attached files.

**Appendix 1: CDD Ant 2x2 RSE**

**Appendix 2: CDD Ant 4x4 RSE**

**Appendix 3: Beam-Forming Ant 2x2 RSE**

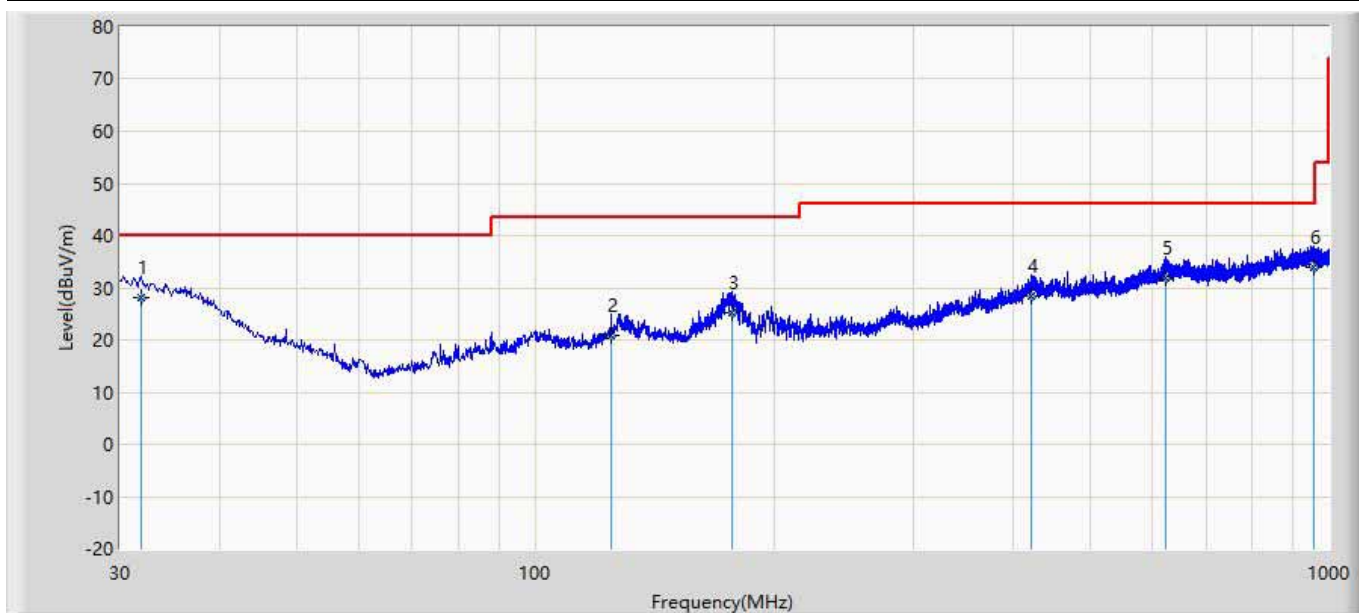
**Appendix 4: Beam-Forming Ant 4x4 RSE**

**Appendix 5: Worst case RSE**



## The worst case of Radiated Emission below 1GHz:

|                              |                      |
|------------------------------|----------------------|
| Engineer: Tirito             |                      |
| Site: AC3                    | Time: 2018/06/29     |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0            |
| Probe: AC3_3m (30-1000MHz)   | Polarity: Horizontal |
| EUT: Wireless Access Point   | Power: AC 120V/60Hz  |
| Note: Mode 1                 |                      |

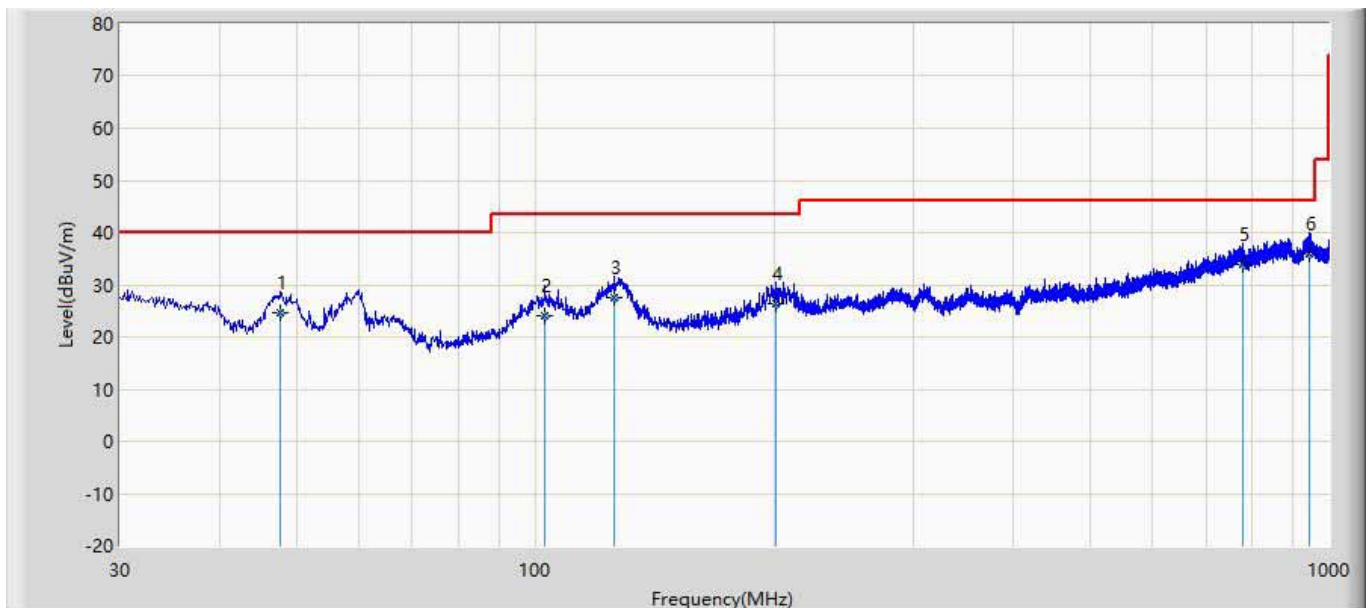


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1  | *    | 31.940          | 28.120                 | 1.300                | -11.880         | 40.000         | 20.356       | 6.464      | 0.000    | 100          | 96              | QP   |
| 2  |      | 124.817         | 20.895                 | 4.500                | -22.605         | 43.500         | 9.427        | 6.968      | 0.000    | 100          | 331             | QP   |
| 3  |      | 177.319         | 25.236                 | 8.000                | -18.264         | 43.500         | 10.042       | 7.194      | 0.000    | 100          | 210             | QP   |
| 4  |      | 421.000         | 28.368                 | 1.200                | -17.632         | 46.000         | 19.208       | 7.960      | 0.000    | 100          | 42              | QP   |
| 5  |      | 623.883         | 31.745                 | 1.900                | -14.255         | 46.000         | 21.356       | 8.489      | 0.000    | 200          | 174             | QP   |
| 6  |      | 956.229         | 33.872                 | 1.100                | -12.128         | 46.000         | 23.552       | 9.220      | 0.000    | 100          | 157             | QP   |

### Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

|                              |                     |
|------------------------------|---------------------|
| Engineer: Tirito             |                     |
| Site: AC3                    | Time: 2018/06/29    |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0           |
| Probe: AC3_3m (30-1000MHz)   | Polarity: Vertical  |
| EUT: Wireless Access Point   | Power: AC 120V/60Hz |
| Note: Mode 1                 |                     |



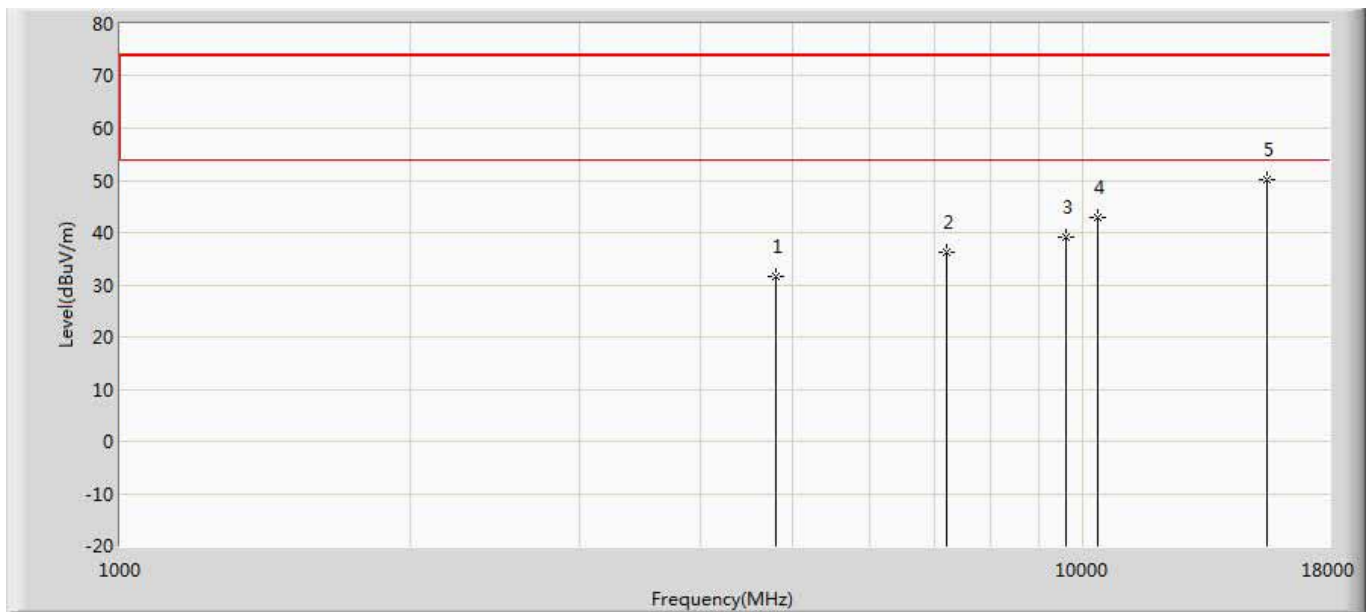
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1  |      | 47.824          | 24.730                 | 6.600                | -15.270         | 40.000         | 11.557       | 6.572      | 0.000    | 100          | 157             | QP   |
| 2  |      | 102.750         | 24.176                 | 2.100                | -19.324         | 43.500         | 15.209       | 6.867      | 0.000    | 100          | 230             | QP   |
| 3  |      | 126.030         | 27.541                 | 6.200                | -15.959         | 43.500         | 14.367       | 6.974      | 0.000    | 100          | 174             | QP   |
| 4  |      | 200.841         | 26.367                 | 3.800                | -17.133         | 43.500         | 15.283       | 7.283      | 0.000    | 100          | 93              | QP   |
| 5  |      | 777.749         | 33.819                 | 1.800                | -12.181         | 46.000         | 23.177       | 8.842      | 0.000    | 200          | 331             | QP   |
| 6  | *    | 943.497         | 35.942                 | 1.600                | -10.058         | 46.000         | 25.153       | 9.189      | 0.000    | 100          | 214             | QP   |

**Note:**

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

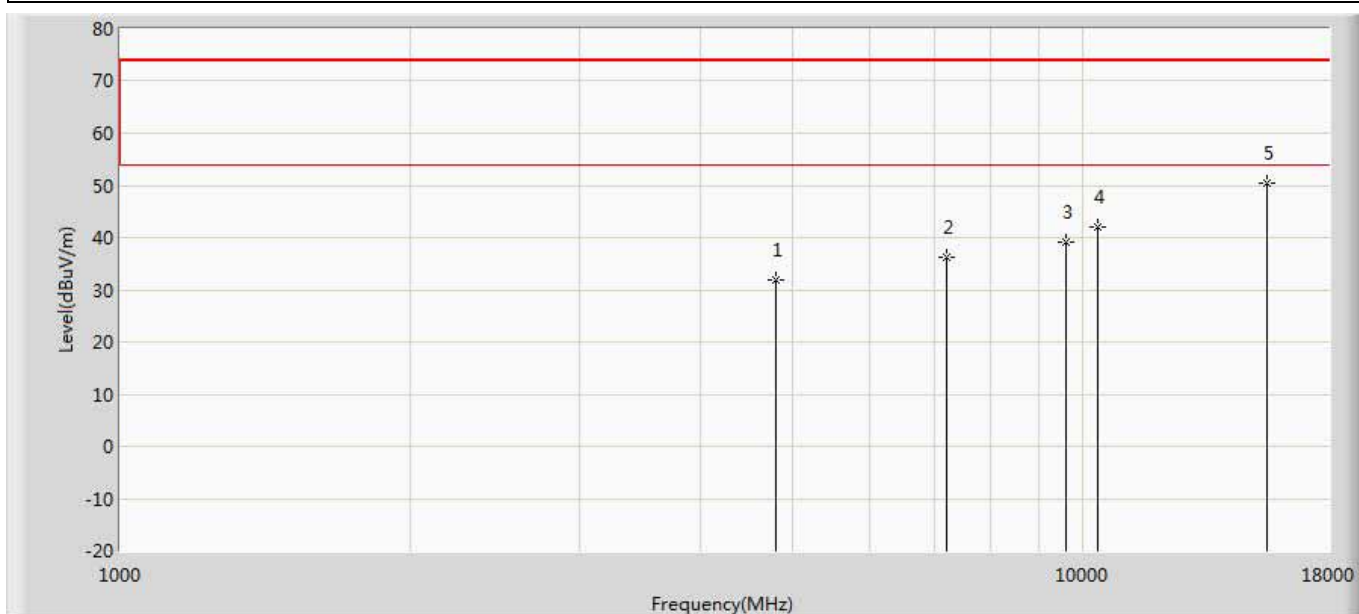
### The worst case of Simultaneous Radiated Emission:

|                                     |                      |
|-------------------------------------|----------------------|
| Engineer: Damon                     |                      |
| Site: AC5                           | Time: 2018/06/29     |
| Limit: FCC_Part15.209_RE(3m)        | Margin: 0            |
| Probe: Horn_3117_00167055(1-18GHz)  | Polarity: Horizontal |
| EUT: Wireless Access Point          | Power: AC 120V/60Hz  |
| Note: WIFI+BT simultaneous transmit |                      |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | 4804.000        | 31.708                 | 40.006               | -42.292         | 74.000         | -8.298      | PK   |
| 2  |      | 7206.000        | 36.145                 | 41.115               | -37.855         | 74.000         | -4.970      | PK   |
| 3  |      | 9608.000        | 39.135                 | 40.065               | -34.865         | 74.000         | -0.930      | PK   |
| 4  |      | 10360.000       | 42.952                 | 42.981               | -31.048         | 74.000         | -0.029      | PK   |
| 5  | *    | 15540.000       | 50.014                 | 44.157               | -23.986         | 74.000         | 5.857       | PK   |

|                                     |                     |
|-------------------------------------|---------------------|
| Engineer: Damon                     |                     |
| Site: AC5                           | Time: 2018/06/29    |
| Limit: FCC_Part15.209_RE(3m)        | Margin: 0           |
| Probe: Horn_3117_00167055(1-18GHz)  | Polarity: Vertical  |
| EUT: Wireless Access Point          | Power: AC 120V/60Hz |
| Note: WIFI+BT simultaneous transmit |                     |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | 4804.000        | 31.759                 | 40.057               | -42.241         | 74.000         | -8.298      | PK   |
| 2  |      | 7206.000        | 36.146                 | 41.116               | -37.854         | 74.000         | -4.970      | PK   |
| 3  |      | 9608.000        | 39.148                 | 40.078               | -34.852         | 74.000         | -0.930      | PK   |
| 4  |      | 10360.000       | 42.123                 | 42.152               | -31.877         | 74.000         | -0.029      | PK   |
| 5  | *    | 15540.000       | 50.452                 | 44.595               | -23.548         | 74.000         | 5.857       | PK   |

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

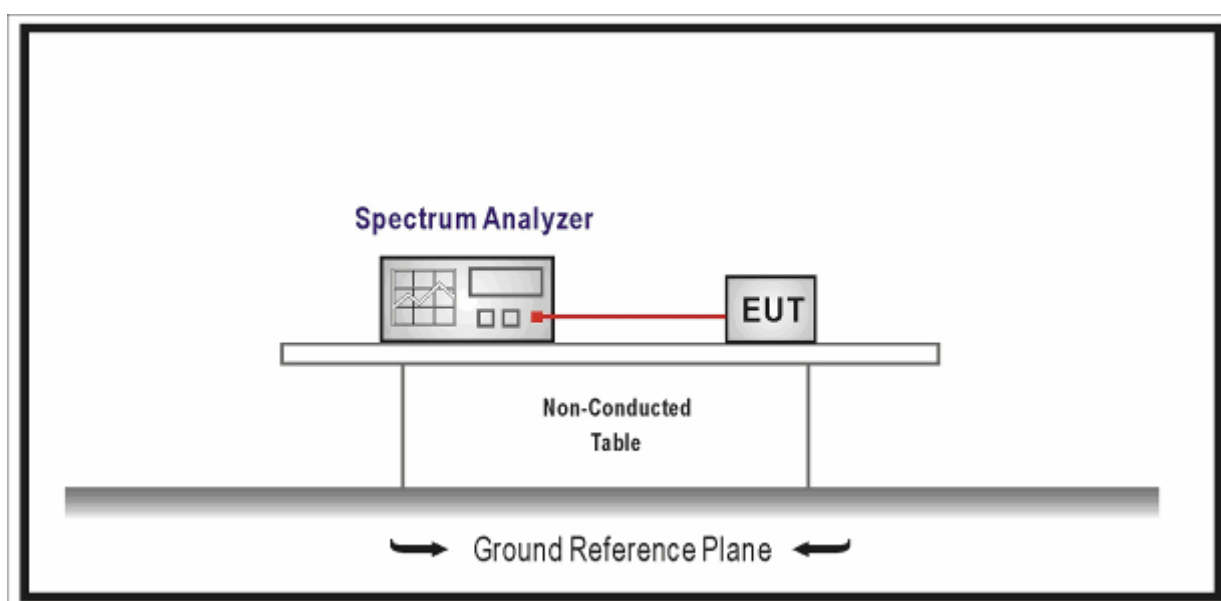
## 5. Emission bandwidth and occupied bandwidth

### 5.1. Test Equipment

| Emission bandwidth and occupied bandwidth / TR-8 |              |          |            |            |               |
|--------------------------------------------------|--------------|----------|------------|------------|---------------|
| Instrument                                       | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer                                | Agilent      | N9010A   | MY48030494 | 2018.02.04 | 2019.02.03    |
| EXA Spectrum Analyzer                            | Keysight     | N9010A   | MY55370495 | 2018.04.09 | 2019.04.08    |
| MXA Signal Analyzer                              | Keysight     | N9020A   | MY56060147 | 2018.04.09 | 2019.04.08    |
| Temperature/Humidity Meter                       | zhichen      | ZC1-2    | TR8-TH     | 2018.04.10 | 2019.04.09    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 5.2. Test Setup



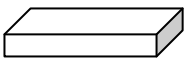
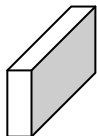
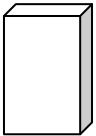
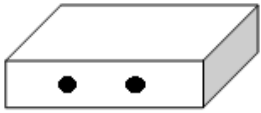
### 5.3. Limit

N/A

## 5.4. Test Procedure

| Test Method                         |                                                                 |         |                                                                 |
|-------------------------------------|-----------------------------------------------------------------|---------|-----------------------------------------------------------------|
|                                     | References Rule                                                 | Chapter | Description                                                     |
| <input type="checkbox"/>            | ANSI C63.10                                                     | 12.4    | Emission bandwidth and occupied bandwidth                       |
|                                     | <input type="checkbox"/> ANSI C63.10                            | 12.4.1  | Emission bandwidth (26dB)                                       |
|                                     | <input type="checkbox"/> ANSI C63.10                            | 12.4.2  | Occupied bandwidth (99%)                                        |
| <input checked="" type="checkbox"/> | FCC KDB 789033<br>D02v02r01                                     | C       | Bandwidth Measurement                                           |
|                                     | <input checked="" type="checkbox"/> FCC KDB 789033<br>D02v02r01 | C.1     | Emission Bandwidth (26dB)                                       |
|                                     | <input type="checkbox"/> FCC KDB 789033<br>D02v02r01            | C.2     | Minimum Emission Bandwidth for the band<br>5.725-5.85 GHz (6dB) |
| <input checked="" type="checkbox"/> | FCC KDB 789033<br>D02v02r01                                     | D       | 99 Percent Occupied Bandwidth                                   |

## 5.5. EUT test Axis definition

| Item            | Occupied bandwidth                                                                   |                                                                                      |                                                                                      |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Device Category | <input checked="" type="checkbox"/>                                                  | Indoor use                                                                           |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Outdoor use                                                                          |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Fix position use                                                                     |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Client use                                                                           |                                                                                      |                                                                                      |
| Test mode       | Mode 1-20                                                                            |                                                                                      |                                                                                      |                                                                                      |
| Test method     | <input type="checkbox"/>                                                             | Radiated                                                                             |                                                                                      |                                                                                      |
|                 |                                                                                      | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |
|                 |                                                                                      |    |  |  |
|                 |                                                                                      | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |
|                 | <input checked="" type="checkbox"/>                                                  | Conducted                                                                            |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              |                                                                                      |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input checked="" type="checkbox"/>                                                  | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |
|                 |  |                                                                                      |                                                                                      |                                                                                      |

## 5.6. Test Result

|              |                         |               |                |
|--------------|-------------------------|---------------|----------------|
| Product Name | : Wireless Access Point | Power         | : AC 120V/60Hz |
| Test Mode    | : Mode 1~20             | Test Site     | : TR8          |
| Test Date    | : 2018.05.24            | Test Engineer | : Tommy        |

### Mode 1: Transmit by 802.11a with CDD by ant0+1

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 22.08                         | 16.901                       | 5171.550                     | Pass   |
| CH44        | 5220            | 26.15                         | 16.952                       | N/A                          | Pass   |
| CH48        | 5240            | 26.34                         | 16.965                       | 5248.483                     | Pass   |
| CH52        | 5260            | 22.14                         | 16.932                       | N/A                          | Pass   |
| CH60        | 5300            | 25.75                         | 16.984                       | N/A                          | Pass   |
| CH64        | 5320            | 25.85                         | 16.927                       | N/A                          | Pass   |
| CH100       | 5500            | 27.79                         | 16.942                       | N/A                          | Pass   |
| CH116       | 5580            | 29.52                         | 17.119                       | N/A                          | Pass   |
| CH140       | 5700            | 29.49                         | 17.328                       | N/A                          | Pass   |
| CH144       | 5720            | 29.18                         | 17.216                       | N/A                          | Pass   |
| CH149       | 5745            | 29.96                         | 17.444                       | N/A                          | Pass   |
| CH157       | 5785            | 29.26                         | 17.119                       | N/A                          | Pass   |
| CH165       | 5825            | 29.22                         | 17.099                       | N/A                          | Pass   |



**Mode 1: Transmit by 802.11a with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 21.35                         | 16.789                       | 5171.606                     | Pass   |
| CH44        | 5220            | 21.45                         | 16.744                       | N/A                          | Pass   |
| CH48        | 5240            | 21.21                         | 16.784                       | 5248.392                     | Pass   |
| CH52        | 5260            | 21.39                         | 16.824                       | N/A                          | Pass   |
| CH60        | 5300            | 21.37                         | 16.763                       | N/A                          | Pass   |
| CH64        | 5320            | 21.09                         | 16.790                       | N/A                          | Pass   |
| CH100       | 5500            | 21.45                         | 16.825                       | N/A                          | Pass   |
| CH116       | 5580            | 21.43                         | 16.768                       | N/A                          | Pass   |
| CH140       | 5700            | 21.12                         | 16.789                       | N/A                          | Pass   |
| CH144       | 5720            | 21.02                         | 16.841                       | N/A                          | Pass   |
| CH149       | 5745            | 29.17                         | 17.062                       | N/A                          | Pass   |
| CH157       | 5785            | 29.92                         | 17.272                       | N/A                          | Pass   |
| CH165       | 5825            | 28.51                         | 17.015                       | N/A                          | Pass   |

**Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 21.46                         | 17.945                       | 5171.028                     | Pass   |
| CH44        | 5220            | 21.70                         | 17.967                       | N/A                          | Pass   |
| CH48        | 5240            | 22.63                         | 17.947                       | 5248.974                     | Pass   |
| CH52        | 5260            | 22.01                         | 17.925                       | N/A                          | Pass   |
| CH60        | 5300            | 24.01                         | 17.939                       | N/A                          | Pass   |
| CH64        | 5320            | 22.92                         | 17.900                       | N/A                          | Pass   |
| CH100       | 5500            | 22.34                         | 17.976                       | N/A                          | Pass   |
| CH116       | 5580            | 29.34                         | 18.097                       | N/A                          | Pass   |
| CH140       | 5700            | 29.99                         | 18.420                       | N/A                          | Pass   |
| CH144       | 5720            | 28.87                         | 18.212                       | N/A                          | Pass   |
| CH149       | 5745            | 29.99                         | 18.224                       | N/A                          | Pass   |
| CH157       | 5785            | 29.42                         | 18.090                       | N/A                          | Pass   |
| CH165       | 5825            | 30.00                         | 18.114                       | N/A                          | Pass   |

**Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 21.50                         | 17.880                       | 5171.060                     | Pass   |
| CH44        | 5220            | 21.22                         | 17.859                       | N/A                          | Pass   |
| CH48        | 5240            | 21.52                         | 17.875                       | 5248.938                     | Pass   |
| CH52        | 5260            | 21.52                         | 17.920                       | N/A                          | Pass   |
| CH60        | 5300            | 21.51                         | 17.915                       | N/A                          | Pass   |
| CH64        | 5320            | 21.45                         | 17.911                       | N/A                          | Pass   |
| CH100       | 5500            | 21.41                         | 17.908                       | N/A                          | Pass   |
| CH116       | 5580            | 21.54                         | 17.888                       | N/A                          | Pass   |
| CH140       | 5700            | 21.50                         | 17.950                       | N/A                          | Pass   |
| CH144       | 5720            | 21.51                         | 17.873                       | N/A                          | Pass   |
| CH149       | 5745            | 24.86                         | 18.022                       | N/A                          | Pass   |
| CH157       | 5785            | 28.87                         | 18.112                       | N/A                          | Pass   |
| CH165       | 5825            | 24.77                         | 18.035                       | N/A                          | Pass   |

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 39.50                         | 36.383                       | 5171.809                     | Pass   |
| CH46        | 5230            | 39.40                         | 36.401                       | 5248.201                     | Pass   |
| CH54        | 5270            | 39.64                         | 36.402                       | N/A                          | Pass   |
| CH62        | 5310            | 39.86                         | 36.368                       | N/A                          | Pass   |
| CH102       | 5510            | 39.55                         | 36.350                       | N/A                          | Pass   |
| CH110       | 5550            | 39.88                         | 36.343                       | N/A                          | Pass   |
| CH134       | 5670            | 56.99                         | 36.547                       | N/A                          | Pass   |
| CH142       | 5710            | 56.85                         | 36.158                       | N/A                          | Pass   |
| CH151       | 5755            | 59.55                         | 36.740                       | N/A                          | Pass   |
| CH159       | 5795            | 56.49                         | 36.575                       | N/A                          | Pass   |

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 39.50                         | 36.402                       | 5171.799                     | Pass   |
| CH46        | 5230            | 39.34                         | 36.290                       | 5248.145                     | Pass   |
| CH54        | 5270            | 39.47                         | 36.380                       | N/A                          | Pass   |
| CH62        | 5310            | 39.48                         | 36.343                       | N/A                          | Pass   |
| CH102       | 5510            | 39.90                         | 36.383                       | N/A                          | Pass   |
| CH110       | 5550            | 39.67                         | 36.297                       | N/A                          | Pass   |
| CH134       | 5670            | 39.68                         | 36.294                       | N/A                          | Pass   |
| CH142       | 5710            | 39.22                         | 36.221                       | N/A                          | Pass   |
| CH151       | 5755            | 57.19                         | 36.557                       | N/A                          | Pass   |
| CH159       | 5795            | 60.00                         | 37.082                       | N/A                          | Pass   |

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 21.54                         | 17.956                       | 5171.022                     | Pass   |
| CH44        | 5220            | 22.76                         | 17.963                       | N/A                          | Pass   |
| CH48        | 5240            | 22.55                         | 17.976                       | 5248.988                     | Pass   |
| CH52        | 5260            | 22.51                         | 17.956                       | N/A                          | Pass   |
| CH60        | 5300            | 22.44                         | 18.004                       | N/A                          | Pass   |
| CH64        | 5320            | 21.68                         | 17.966                       | N/A                          | Pass   |
| CH100       | 5500            | 24.56                         | 17.980                       | N/A                          | Pass   |
| CH116       | 5580            | 28.78                         | 18.120                       | N/A                          | Pass   |
| CH140       | 5700            | 29.14                         | 18.170                       | N/A                          | Pass   |
| CH144       | 5720            | 29.11                         | 18.110                       | N/A                          | Pass   |
| CH149       | 5745            | 28.26                         | 18.179                       | N/A                          | Pass   |
| CH157       | 5785            | 26.65                         | 18.152                       | N/A                          | Pass   |
| CH165       | 5825            | 29.94                         | 18.129                       | N/A                          | Pass   |

| Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1+2+3 |                 |                               |                              |                              |        |
|------------------------------------------------------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| Channel No.                                                | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|                                                            |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36                                                       | 5180            | 21.54                         | 17.924                       | 5171.038                     | Pass   |
| CH44                                                       | 5220            | 21.55                         | 17.925                       | N/A                          | Pass   |
| CH48                                                       | 5240            | 21.39                         | 17.942                       | 5248.971                     | Pass   |
| CH52                                                       | 5260            | 21.55                         | 17.936                       | N/A                          | Pass   |
| CH60                                                       | 5300            | 21.31                         | 17.950                       | N/A                          | Pass   |
| CH64                                                       | 5320            | 21.68                         | 17.992                       | N/A                          | Pass   |
| CH100                                                      | 5500            | 21.53                         | 18.004                       | N/A                          | Pass   |
| CH116                                                      | 5580            | 21.43                         | 17.951                       | N/A                          | Pass   |
| CH140                                                      | 5700            | 21.17                         | 17.975                       | N/A                          | Pass   |
| CH144                                                      | 5720            | 21.38                         | 17.994                       | N/A                          | Pass   |
| CH149                                                      | 5745            | 22.48                         | 18.053                       | N/A                          | Pass   |
| CH157                                                      | 5785            | 26.48                         | 18.129                       | N/A                          | Pass   |
| CH165                                                      | 5825            | 28.98                         | 18.082                       | N/A                          | Pass   |

| Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1 |                 |                               |                              |                              |        |
|--------------------------------------------------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| Channel No.                                            | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|                                                        |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38                                                   | 5190            | 39.80                         | 36.331                       | 5171.835                     | Pass   |
| CH46                                                   | 5230            | 39.78                         | 36.360                       | 5248.180                     | Pass   |
| CH54                                                   | 5270            | 39.60                         | 36.359                       | N/A                          | Pass   |
| CH62                                                   | 5310            | 39.81                         | 36.321                       | N/A                          | Pass   |
| CH102                                                  | 5510            | 39.79                         | 36.370                       | N/A                          | Pass   |
| CH110                                                  | 5550            | 39.77                         | 36.270                       | N/A                          | Pass   |
| CH134                                                  | 5670            | 46.39                         | 36.506                       | N/A                          | Pass   |
| CH142                                                  | 5710            | 46.36                         | 36.053                       | N/A                          | Pass   |
| CH151                                                  | 5755            | 57.95                         | 36.569                       | N/A                          | Pass   |
| CH159                                                  | 5795            | 56.80                         | 36.648                       | N/A                          | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 39.34                         | 36.423                       | 5171.789                     | Pass   |
| CH46        | 5230            | 39.81                         | 36.390                       | 5248.195                     | Pass   |
| CH54        | 5270            | 39.57                         | 36.400                       | N/A                          | Pass   |
| CH62        | 5310            | 39.77                         | 36.419                       | N/A                          | Pass   |
| CH102       | 5510            | 39.60                         | 36.415                       | N/A                          | Pass   |
| CH110       | 5550            | 39.59                         | 36.382                       | N/A                          | Pass   |
| CH134       | 5670            | 39.87                         | 36.339                       | N/A                          | Pass   |
| CH142       | 5710            | 39.59                         | 37.565                       | N/A                          | Pass   |
| CH151       | 5755            | 57.85                         | 36.535                       | N/A                          | Pass   |
| CH159       | 5795            | 60.00                         | 36.997                       | N/A                          | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH42        | 5210            | 81.47                         | 77.139                       | 5171.431/5248.570            | Pass   |
| CH58        | 5290            | 81.88                         | 77.242                       | N/A                          | Pass   |
| CH106       | 5530            | 81.17                         | 77.149                       | N/A                          | Pass   |
| CH138       | 5690            | 81.11                         | 77.197                       | N/A                          | Pass   |
| CH155       | 5775            | 113.8                         | 77.414                       | N/A                          | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH42        | 5210            | 81.29                         | 75.496                       | 5172.252/5247.748            | Pass   |
| CH58        | 5290            | 81.38                         | 75.749                       | N/A                          | Pass   |
| CH106       | 5530            | 81.45                         | 75.628                       | N/A                          | Pass   |
| CH138       | 5690            | 80.06                         | 76.915                       | N/A                          | Pass   |
| CH155       | 5775            | 81.35                         | 75.764                       | N/A                          | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1 |                 |                               |                              |                              |        |
|--------------------------------------------------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| Channel No.                                            | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|                                                        |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36                                                   | 5180            | 22.24                         | 19.104                       | 5170.448                     | Pass   |
| CH44                                                   | 5220            | 24.21                         | 19.124                       | N/A                          | Pass   |
| CH48                                                   | 5240            | 23.99                         | 19.099                       | 5249.550                     | Pass   |
| CH52                                                   | 5260            | 21.85                         | 19.093                       | N/A                          | Pass   |
| CH60                                                   | 5300            | 21.62                         | 19.063                       | N/A                          | Pass   |
| CH64                                                   | 5320            | 22.72                         | 19.152                       | N/A                          | Pass   |
| CH100                                                  | 5500            | 24.19                         | 19.033                       | N/A                          | Pass   |
| CH116                                                  | 5580            | 29.16                         | 19.165                       | N/A                          | Pass   |
| CH140                                                  | 5700            | 29.79                         | 19.247                       | N/A                          | Pass   |
| CH144                                                  | 5720            | 29.72                         | 19.217                       | N/A                          | Pass   |
| CH149                                                  | 5745            | 29.81                         | 19.268                       | N/A                          | Pass   |
| CH157                                                  | 5785            | 30.00                         | 19.248                       | N/A                          | Pass   |
| CH165                                                  | 5825            | 27.70                         | 19.120                       | N/A                          | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1+2+3 |                 |                               |                              |                              |        |
|------------------------------------------------------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| Channel No.                                                | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|                                                            |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36                                                       | 5180            | 21.61                         | 19.048                       | 5170.476                     | Pass   |
| CH44                                                       | 5220            | 21.34                         | 19.055                       | N/A                          | Pass   |
| CH48                                                       | 5240            | 21.34                         | 19.063                       | 5249.532                     | Pass   |
| CH52                                                       | 5260            | 21.19                         | 19.104                       | N/A                          | Pass   |
| CH60                                                       | 5300            | 21.15                         | 19.089                       | N/A                          | Pass   |
| CH64                                                       | 5320            | 21.23                         | 19.038                       | N/A                          | Pass   |
| CH100                                                      | 5500            | 21.34                         | 19.025                       | N/A                          | Pass   |
| CH116                                                      | 5580            | 21.32                         | 19.012                       | N/A                          | Pass   |
| CH140                                                      | 5700            | 21.53                         | 19.077                       | N/A                          | Pass   |
| CH144                                                      | 5720            | 21.48                         | 19.129                       | N/A                          | Pass   |
| CH149                                                      | 5745            | 29.04                         | 19.160                       | N/A                          | Pass   |
| CH157                                                      | 5785            | 22.82                         | 19.112                       | N/A                          | Pass   |
| CH165                                                      | 5825            | 22.36                         | 19.141                       | N/A                          | Pass   |

**Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 40.01                         | 37.497                       | 5171.252                     | Pass   |
| CH46        | 5230            | 40.12                         | 37.595                       | 5248.798                     | Pass   |
| CH54        | 5270            | 40.08                         | 37.590                       | N/A                          | Pass   |
| CH62        | 5310            | 40.11                         | 37.546                       | N/A                          | Pass   |
| CH102       | 5510            | 39.99                         | 37.351                       | N/A                          | Pass   |
| CH110       | 5550            | 39.99                         | 37.577                       | N/A                          | Pass   |
| CH134       | 5670            | 48.56                         | 37.662                       | N/A                          | Pass   |
| CH142       | 5710            | 49.62                         | 37.726                       | N/A                          | Pass   |
| CH151       | 5755            | 49.29                         | 37.622                       | N/A                          | Pass   |
| CH159       | 5795            | 49.69                         | 37.705                       | N/A                          | Pass   |

**Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 39.93                         | 37.573                       | 5171.214                     | Pass   |
| CH46        | 5230            | 39.86                         | 37.600                       | 5248.800                     | Pass   |
| CH54        | 5270            | 40.19                         | 37.595                       | N/A                          | Pass   |
| CH62        | 5310            | 40.13                         | 37.546                       | N/A                          | Pass   |
| CH102       | 5510            | 39.82                         | 37.609                       | N/A                          | Pass   |
| CH110       | 5550            | 39.98                         | 37.572                       | N/A                          | Pass   |
| CH134       | 5670            | 40.19                         | 37.694                       | N/A                          | Pass   |
| CH142       | 5710            | 39.33                         | 37.618                       | N/A                          | Pass   |
| CH151       | 5755            | 55.64                         | 37.731                       | N/A                          | Pass   |
| CH159       | 5795            | 58.90                         | 37.863                       | N/A                          | Pass   |

**Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH42        | 5210            | 81.56                         | 77.044                       | 5171.478/5248.522            | Pass   |
| CH58        | 5290            | 81.76                         | 77.193                       | N/A                          | Pass   |
| CH106       | 5530            | 81.61                         | 77.180                       | N/A                          | Pass   |
| CH138       | 5690            | 81.11                         | 77.071                       | N/A                          | Pass   |
| CH155       | 5775            | 113.7                         | 77.401                       | N/A                          | Pass   |

**Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH42        | 5210            | 81.43                         | 77.002                       | 5171.499/5248.501            | Pass   |
| CH58        | 5290            | 81.06                         | 77.147                       | N/A                          | Pass   |
| CH106       | 5530            | 81.48                         | 77.025                       | N/A                          | Pass   |
| CH138       | 5690            | 79.51                         | 77.007                       | N/A                          | Pass   |
| CH155       | 5775            | 81.86                         | 77.087                       | N/A                          | Pass   |

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH50        | 5250            | 154.6                         | 154.43                       | N/A                          | Pass   |
| CH144       | 5570            | 154.9                         | 154.59                       | N/A                          | Pass   |

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH50        | 5250            | 163.4                         | 154.13                       | N/A                          | Pass   |
| CH144       | 5570            | 163.5                         | 154.15                       | N/A                          | Pass   |



| Mode 11: Transmit by 802.11a with Beam-forming by ant0+1 |                 |                               |                              |                              |        |
|----------------------------------------------------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| Channel No.                                              | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|                                                          |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36                                                     | 5180            | 22.25                         | 16.915                       | 5171.543                     | Pass   |
| CH44                                                     | 5220            | 23.99                         | 16.983                       | N/A                          | Pass   |
| CH48                                                     | 5240            | 23.77                         | 16.903                       | 5248.452                     | Pass   |
| CH52                                                     | 5260            | 22.02                         | 16.839                       | N/A                          | Pass   |
| CH60                                                     | 5300            | 22.35                         | 16.860                       | N/A                          | Pass   |
| CH64                                                     | 5320            | 21.98                         | 16.853                       | N/A                          | Pass   |
| CH100                                                    | 5500            | 21.33                         | 16.834                       | N/A                          | Pass   |
| CH116                                                    | 5580            | 21.65                         | 16.945                       | N/A                          | Pass   |
| CH140                                                    | 5700            | 22.06                         | 16.855                       | N/A                          | Pass   |
| CH144                                                    | 5720            | 21.19                         | 17.006                       | N/A                          | Pass   |
| CH149                                                    | 5745            | 28.46                         | 17.570                       | N/A                          | Pass   |
| CH157                                                    | 5785            | 28.87                         | 17.288                       | N/A                          | Pass   |
| CH165                                                    | 5825            | 29.30                         | 18.046                       | N/A                          | Pass   |

| Mode 11: Transmit by 802.11a with Beam-forming by ant0+1+2+3 |                 |                               |                              |                              |        |
|--------------------------------------------------------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| Channel No.                                                  | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|                                                              |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36                                                         | 5180            | 21.12                         | 16.850                       | 5171.575                     | Pass   |
| CH44                                                         | 5220            | 20.90                         | 16.801                       | N/A                          | Pass   |
| CH48                                                         | 5240            | 21.31                         | 16.833                       | 5248.417                     | Pass   |
| CH52                                                         | 5260            | 21.04                         | 16.812                       | N/A                          | Pass   |
| CH60                                                         | 5300            | 21.47                         | 16.780                       | N/A                          | Pass   |
| CH64                                                         | 5320            | 21.31                         | 16.790                       | N/A                          | Pass   |
| CH100                                                        | 5500            | 21.08                         | 16.804                       | N/A                          | Pass   |
| CH116                                                        | 5580            | 21.34                         | 16.822                       | N/A                          | Pass   |
| CH140                                                        | 5700            | 21.17                         | 16.798                       | N/A                          | Pass   |
| CH144                                                        | 5720            | 21.20                         | 16.825                       | N/A                          | Pass   |
| CH149                                                        | 5745            | 28.05                         | 16.969                       | N/A                          | Pass   |
| CH157                                                        | 5785            | 29.05                         | 17.173                       | N/A                          | Pass   |
| CH165                                                        | 5825            | 29.15                         | 17.225                       | N/A                          | Pass   |

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 21.61                         | 17.898                       | 5171.051                     | Pass   |
| CH44        | 5220            | 22.34                         | 17.894                       | N/A                          | Pass   |
| CH48        | 5240            | 21.74                         | 17.937                       | 5248.969                     | Pass   |
| CH52        | 5260            | 21.63                         | 17.895                       | N/A                          | Pass   |
| CH60        | 5300            | 21.80                         | 17.858                       | N/A                          | Pass   |
| CH64        | 5320            | 21.77                         | 17.904                       | N/A                          | Pass   |
| CH100       | 5500            | 21.53                         | 17.876                       | N/A                          | Pass   |
| CH116       | 5580            | 21.59                         | 17.907                       | N/A                          | Pass   |
| CH140       | 5700            | 21.37                         | 17.883                       | N/A                          | Pass   |
| CH144       | 5720            | 21.37                         | 18.546                       | N/A                          | Pass   |
| CH149       | 5745            | 24.75                         | 18.081                       | N/A                          | Pass   |
| CH157       | 5785            | 28.50                         | 18.957                       | N/A                          | Pass   |
| CH165       | 5825            | 24.98                         | 18.131                       | N/A                          | Pass   |

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 21.31                         | 17.934                       | 5171.033                     | Pass   |
| CH44        | 5220            | 21.30                         | 17.876                       | N/A                          | Pass   |
| CH48        | 5240            | 21.68                         | 17.925                       | 5248.963                     | Pass   |
| CH52        | 5260            | 21.27                         | 17.920                       | N/A                          | Pass   |
| CH60        | 5300            | 21.28                         | 17.906                       | N/A                          | Pass   |
| CH64        | 5320            | 21.57                         | 17.911                       | N/A                          | Pass   |
| CH100       | 5500            | 21.37                         | 17.902                       | N/A                          | Pass   |
| CH116       | 5580            | 21.55                         | 17.886                       | N/A                          | Pass   |
| CH140       | 5700            | 21.36                         | 17.894                       | N/A                          | Pass   |
| CH144       | 5720            | 21.35                         | 17.897                       | N/A                          | Pass   |
| CH149       | 5745            | 24.32                         | 18.028                       | N/A                          | Pass   |
| CH157       | 5785            | 28.51                         | 18.149                       | N/A                          | Pass   |
| CH165       | 5825            | 24.25                         | 18.003                       | N/A                          | Pass   |

**Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 39.68                         | 36.336                       | 5171.832                     | Pass   |
| CH46        | 5230            | 39.71                         | 36.313                       | 5248.157                     | Pass   |
| CH54        | 5270            | 39.73                         | 36.348                       | N/A                          | Pass   |
| CH62        | 5310            | 39.62                         | 36.274                       | N/A                          | Pass   |
| CH102       | 5510            | 39.69                         | 36.308                       | N/A                          | Pass   |
| CH110       | 5550            | 39.78                         | 36.379                       | N/A                          | Pass   |
| CH134       | 5670            | 53.09                         | 36.518                       | N/A                          | Pass   |
| CH142       | 5710            | 39.02                         | 36.495                       | N/A                          | Pass   |
| CH151       | 5755            | 55.85                         | 36.812                       | N/A                          | Pass   |
| CH159       | 5795            | 59.70                         | 37.292                       | N/A                          | Pass   |

**Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 39.48                         | 36.307                       | 5171.847                     | Pass   |
| CH46        | 5230            | 39.50                         | 36.323                       | 5248.162                     | Pass   |
| CH54        | 5270            | 39.84                         | 36.353                       | N/A                          | Pass   |
| CH62        | 5310            | 39.71                         | 36.228                       | N/A                          | Pass   |
| CH102       | 5510            | 39.47                         | 36.340                       | N/A                          | Pass   |
| CH110       | 5550            | 39.56                         | 36.239                       | N/A                          | Pass   |
| CH134       | 5670            | 39.54                         | 36.311                       | N/A                          | Pass   |
| CH142       | 5710            | 39.27                         | 36.188                       | N/A                          | Pass   |
| CH151       | 5755            | 55.84                         | 36.564                       | N/A                          | Pass   |
| CH159       | 5795            | 60.00                         | 37.025                       | N/A                          | Pass   |

**Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 21.41                         | 17.939                       | 5171.031                     | Pass   |
| CH44        | 5220            | 21.96                         | 17.936                       | N/A                          | Pass   |
| CH48        | 5240            | 21.71                         | 17.936                       | 5248.968                     | Pass   |
| CH52        | 5260            | 21.51                         | 17.923                       | N/A                          | Pass   |
| CH60        | 5300            | 21.54                         | 17.956                       | N/A                          | Pass   |
| CH64        | 5320            | 22.05                         | 17.929                       | N/A                          | Pass   |
| CH100       | 5500            | 21.39                         | 17.949                       | N/A                          | Pass   |
| CH116       | 5580            | 21.57                         | 17.889                       | N/A                          | Pass   |
| CH140       | 5700            | 21.48                         | 17.961                       | N/A                          | Pass   |
| CH144       | 5720            | 21.88                         | 18.388                       | N/A                          | Pass   |
| CH149       | 5745            | 26.87                         | 18.680                       | N/A                          | Pass   |
| CH157       | 5785            | 27.25                         | 18.542                       | N/A                          | Pass   |
| CH165       | 5825            | 24.88                         | 18.307                       | N/A                          | Pass   |

**Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 21.58                         | 17.957                       | 5171.022                     | Pass   |
| CH44        | 5220            | 21.61                         | 17.979                       | N/A                          | Pass   |
| CH48        | 5240            | 21.57                         | 17.933                       | 5248.967                     | Pass   |
| CH52        | 5260            | 21.62                         | 17.958                       | N/A                          | Pass   |
| CH60        | 5300            | 21.43                         | 17.973                       | N/A                          | Pass   |
| CH64        | 5320            | 21.59                         | 17.931                       | N/A                          | Pass   |
| CH100       | 5500            | 21.33                         | 17.976                       | N/A                          | Pass   |
| CH116       | 5580            | 21.59                         | 17.956                       | N/A                          | Pass   |
| CH140       | 5700            | 21.43                         | 17.963                       | N/A                          | Pass   |
| CH144       | 5720            | 21.57                         | 17.923                       | N/A                          | Pass   |
| CH149       | 5745            | 26.14                         | 18.045                       | N/A                          | Pass   |
| CH157       | 5785            | 27.50                         | 18.141                       | N/A                          | Pass   |
| CH165       | 5825            | 24.83                         | 18.123                       | N/A                          | Pass   |

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 39.89                         | 36.387                       | 5171.807                     | Pass   |
| CH46        | 5230            | 39.85                         | 36.365                       | 5248.183                     | Pass   |
| CH54        | 5270            | 39.94                         | 36.394                       | N/A                          | Pass   |
| CH62        | 5310            | 40.01                         | 36.329                       | N/A                          | Pass   |
| CH102       | 5510            | 39.79                         | 36.352                       | N/A                          | Pass   |
| CH110       | 5550            | 39.66                         | 36.302                       | N/A                          | Pass   |
| CH134       | 5670            | 52.57                         | 36.541                       | N/A                          | Pass   |
| CH142       | 5710            | 40.04                         | 37.555                       | N/A                          | Pass   |
| CH151       | 5755            | 59.07                         | 37.061                       | N/A                          | Pass   |
| CH159       | 5795            | 59.78                         | 36.983                       | N/A                          | Pass   |

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 39.44                         | 36.389                       | 5171.806                     | Pass   |
| CH46        | 5230            | 39.45                         | 36.399                       | 5248.200                     | Pass   |
| CH54        | 5270            | 40.18                         | 36.427                       | N/A                          | Pass   |
| CH62        | 5310            | 39.57                         | 36.362                       | N/A                          | Pass   |
| CH102       | 5510            | 39.50                         | 36.437                       | N/A                          | Pass   |
| CH110       | 5550            | 39.53                         | 36.377                       | N/A                          | Pass   |
| CH134       | 5670            | 39.45                         | 36.380                       | N/A                          | Pass   |
| CH142       | 5710            | 39.92                         | 37.548                       | N/A                          | Pass   |
| CH151       | 5755            | 58.88                         | 36.634                       | N/A                          | Pass   |
| CH159       | 5795            | 59.82                         | 36.941                       | N/A                          | Pass   |

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH42        | 5210            | 81.25                         | 75.717                       | 5172.142/5247.859            | Pass   |
| CH58        | 5290            | 82.06                         | 75.788                       | N/A                          | Pass   |
| CH106       | 5530            | 81.81                         | 75.655                       | N/A                          | Pass   |
| CH138       | 5690            | 79.67                         | 76.862                       | N/A                          | Pass   |
| CH155       | 5775            | 80.96                         | 75.625                       | N/A                          | Pass   |

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH42        | 5210            | 80.89                         | 75.509                       | 5172.246/5247.755            | Pass   |
| CH58        | 5290            | 80.79                         | 75.632                       | N/A                          | Pass   |
| CH106       | 5530            | 81.63                         | 75.751                       | N/A                          | Pass   |
| CH138       | 5690            | 79.77                         | 77.154                       | N/A                          | Pass   |
| CH155       | 5775            | 81.32                         | 75.829                       | N/A                          | Pass   |

**Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 21.18                         | 19.074                       | 5170.463                     | Pass   |
| CH44        | 5220            | 22.33                         | 19.105                       | N/A                          | Pass   |
| CH48        | 5240            | 22.36                         | 19.042                       | 5249.521                     | Pass   |
| CH52        | 5260            | 23.27                         | 19.100                       | N/A                          | Pass   |
| CH60        | 5300            | 21.55                         | 19.061                       | N/A                          | Pass   |
| CH64        | 5320            | 22.88                         | 19.090                       | N/A                          | Pass   |
| CH100       | 5500            | 21.14                         | 19.105                       | N/A                          | Pass   |
| CH116       | 5580            | 21.38                         | 19.102                       | N/A                          | Pass   |
| CH140       | 5700            | 21.70                         | 19.150                       | N/A                          | Pass   |
| CH144       | 5720            | 22.07                         | 19.456                       | N/A                          | Pass   |
| CH149       | 5745            | 28.21                         | 19.299                       | N/A                          | Pass   |
| CH157       | 5785            | 26.49                         | 19.294                       | N/A                          | Pass   |
| CH165       | 5825            | 23.43                         | 19.256                       | N/A                          | Pass   |

**Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH36        | 5180            | 21.42                         | 19.046                       | 5170.477                     | Pass   |
| CH44        | 5220            | 21.46                         | 19.168                       | N/A                          | Pass   |
| CH48        | 5240            | 21.71                         | 19.086                       | 5249.543                     | Pass   |
| CH52        | 5260            | 21.52                         | 19.049                       | N/A                          | Pass   |
| CH60        | 5300            | 21.41                         | 19.051                       | N/A                          | Pass   |
| CH64        | 5320            | 21.14                         | 18.986                       | N/A                          | Pass   |
| CH100       | 5500            | 21.26                         | 19.071                       | N/A                          | Pass   |
| CH116       | 5580            | 21.19                         | 19.084                       | N/A                          | Pass   |
| CH140       | 5700            | 21.39                         | 19.043                       | N/A                          | Pass   |
| CH144       | 5720            | 21.51                         | 19.018                       | N/A                          | Pass   |
| CH149       | 5745            | 27.54                         | 19.213                       | N/A                          | Pass   |
| CH157       | 5785            | 26.29                         | 19.133                       | N/A                          | Pass   |
| CH165       | 5825            | 23.09                         | 19.043                       | N/A                          | Pass   |

**Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 39.88                         | 37.552                       | 5171.224                     | Pass   |
| CH46        | 5230            | 40.01                         | 37.569                       | 5248.785                     | Pass   |
| CH54        | 5270            | 39.75                         | 37.578                       | N/A                          | Pass   |
| CH62        | 5310            | 40.00                         | 37.530                       | N/A                          | Pass   |
| CH102       | 5510            | 39.85                         | 37.482                       | N/A                          | Pass   |
| CH110       | 5550            | 39.92                         | 37.530                       | N/A                          | Pass   |
| CH134       | 5670            | 45.15                         | 37.627                       | N/A                          | Pass   |
| CH142       | 5710            | 39.39                         | 37.909                       | N/A                          | Pass   |
| CH151       | 5755            | 52.41                         | 37.748                       | N/A                          | Pass   |
| CH159       | 5795            | 49.81                         | 38.048                       | N/A                          | Pass   |

**Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH38        | 5190            | 40.01                         | 37.676                       | 5171.162                     | Pass   |
| CH46        | 5230            | 39.85                         | 37.622                       | 5248.811                     | Pass   |
| CH54        | 5270            | 40.21                         | 37.539                       | N/A                          | Pass   |
| CH62        | 5310            | 39.88                         | 37.576                       | N/A                          | Pass   |
| CH102       | 5510            | 40.35                         | 37.612                       | N/A                          | Pass   |
| CH110       | 5550            | 40.10                         | 37.596                       | N/A                          | Pass   |
| CH134       | 5670            | 39.70                         | 37.552                       | N/A                          | Pass   |
| CH142       | 5710            | 39.71                         | 37.680                       | N/A                          | Pass   |
| CH151       | 5755            | 52.90                         | 37.776                       | N/A                          | Pass   |
| CH159       | 5795            | 50.00                         | 37.868                       | N/A                          | Pass   |



**Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH42        | 5210            | 81.63                         | 77.056                       | 5171.472/5248.528            | Pass   |
| CH58        | 5290            | 81.63                         | 77.237                       | N/A                          | Pass   |
| CH106       | 5530            | 81.61                         | 77.088                       | N/A                          | Pass   |
| CH138       | 5690            | 79.53                         | 77.174                       | N/A                          | Pass   |
| CH155       | 5775            | 82.48                         | 77.038                       | N/A                          | Pass   |

**Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH42        | 5210            | 81.72                         | 77.014                       | 5171.493/5248.507            | Pass   |
| CH58        | 5290            | 82.03                         | 77.248                       | N/A                          | Pass   |
| CH106       | 5530            | 81.28                         | 77.066                       | N/A                          | Pass   |
| CH138       | 5690            | 79.91                         | 77.101                       | N/A                          | Pass   |
| CH155       | 5775            | 82.51                         | 77.222                       | N/A                          | Pass   |

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH50        | 5250            | 163.2                         | 154.45                       | N/A                          | Pass   |
| CH144       | 5570            | 164.7                         | 154.61                       | N/A                          | Pass   |

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
|             |                 | Ant1(Worst Data)              | Ant1(Worst Data)             | Ant1(Worst Data)             |        |
| CH50        | 5250            | 163.4                         | 154.16                       | N/A                          | Pass   |
| CH144       | 5570            | 163.7                         | 154.26                       | N/A                          | Pass   |

The worst case of Occupied Bandwidth as below:



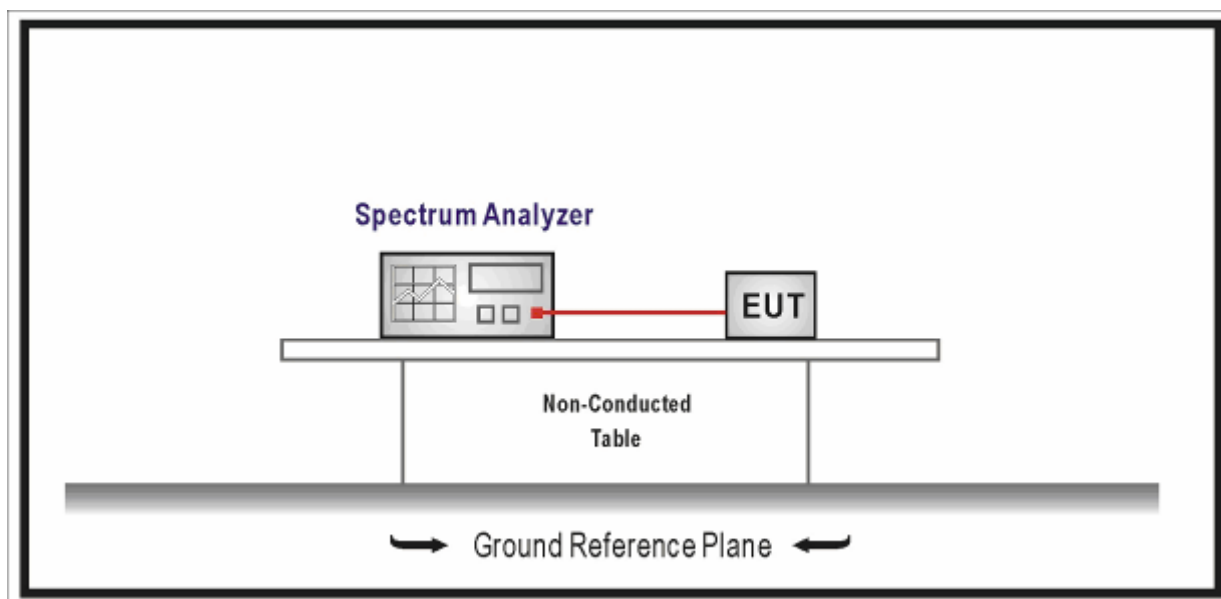
## 6. 6dB bandwidth

### 6.1. Test Equipment

| Emission bandwidth and occupied bandwidth / TR-8 |              |          |            |            |               |
|--------------------------------------------------|--------------|----------|------------|------------|---------------|
| Instrument                                       | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer                                | Agilent      | N9010A   | MY48030494 | 2018.02.04 | 2019.02.03    |
| EXA Spectrum Analyzer                            | Keysight     | N9010A   | MY55370495 | 2018.04.09 | 2019.04.08    |
| MXA Signal Analyzer                              | Keysight     | N9020A   | MY56060147 | 2018.04.09 | 2019.04.08    |
| Temperature/Humidity Meter                       | zhichen      | ZC1-2    | TR8-TH     | 2018.04.10 | 2019.04.09    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 6.2. Test Setup



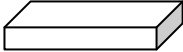
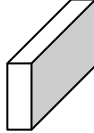
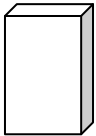
### 6.3. Limit

>500kHz

## 6.4. Test Procedure

| Test Method                         |                                                                 |         |                                                                 |
|-------------------------------------|-----------------------------------------------------------------|---------|-----------------------------------------------------------------|
|                                     | References Rule                                                 | Chapter | Description                                                     |
| <input type="checkbox"/>            | ANSI C63.10                                                     | 12.4    | Emission bandwidth and occupied bandwidth                       |
|                                     | <input type="checkbox"/> ANSI C63.10                            | 12.4.1  | Emission bandwidth (26dB)                                       |
|                                     | <input type="checkbox"/> ANSI C63.10                            | 12.4.2  | Occupied bandwidth (99%)                                        |
| <input checked="" type="checkbox"/> | FCC KDB 789033<br>D02v02r01                                     | C       | Bandwidth Measurement                                           |
|                                     | <input type="checkbox"/> FCC KDB 789033<br>D02v02r01            | C.1     | Emission Bandwidth (26dB)                                       |
|                                     | <input checked="" type="checkbox"/> FCC KDB 789033<br>D02v02r01 | C.2     | Minimum Emission Bandwidth for the band<br>5.725-5.85 GHz (6dB) |
| <input checked="" type="checkbox"/> | FCC KDB 789033<br>D02v02r01                                     | D       | 99 Percent Occupied Bandwidth                                   |

## 6.5. EUT test Axis definition

| Item            | 6dB bandwidth                                                                        |                                                                                      |                                                                                      |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Device Category | <input checked="" type="checkbox"/>                                                  | Indoor use                                                                           |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Outdoor use                                                                          |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Fix position use                                                                     |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Client use                                                                           |                                                                                      |                                                                                      |
| Test mode       | Mode 1-20                                                                            |                                                                                      |                                                                                      |                                                                                      |
| Test method     | <input type="checkbox"/>                                                             | Radiated                                                                             |                                                                                      |                                                                                      |
|                 |                                                                                      | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |
|                 |                                                                                      |    |  |  |
|                 |                                                                                      | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |
|                 | <input checked="" type="checkbox"/>                                                  | Conducted                                                                            |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              |                                                                                      |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input checked="" type="checkbox"/>                                                  | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |
|                 |  |                                                                                      |                                                                                      |                                                                                      |

## 6.6. Test Result

|              |                         |               |                |
|--------------|-------------------------|---------------|----------------|
| Product Name | : Wireless Access Point | Power         | : AC 120V/60Hz |
| Test Mode    | : Mode 1~20             | Test Site     | : TR8          |
| Test Date    | : 2018.05.28            | Test Engineer | : Tommy        |

| Mode 1: Transmit by 802.11a with CDD by ant0+1            |                    |                        |                |        |
|-----------------------------------------------------------|--------------------|------------------------|----------------|--------|
| Channel No.                                               | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|                                                           |                    | Ant1(Worst Data)       |                |        |
| 149                                                       | 5745               | 16.37                  | >500           | Pass   |
| 157                                                       | 5785               | 16.54                  |                | Pass   |
| 165                                                       | 5825               | 16.40                  |                | Pass   |
| Mode 1: Transmit by 802.11a with CDD by ant0+1+2+3        |                    |                        |                |        |
| Channel No.                                               | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|                                                           |                    | Ant1(Worst Data)       |                |        |
| 149                                                       | 5745               | 16.36                  | >500           | Pass   |
| 157                                                       | 5785               | 16.40                  |                | Pass   |
| 165                                                       | 5825               | 16.39                  |                | Pass   |
| Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1     |                    |                        |                |        |
| Channel No.                                               | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|                                                           |                    | Ant1(Worst Data)       |                |        |
| 149                                                       | 5745               | 17.61                  | >500           | Pass   |
| 157                                                       | 5785               | 17.63                  |                | Pass   |
| 165                                                       | 5825               | 17.61                  |                | Pass   |
| Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1+2+3 |                    |                        |                |        |
| Channel No.                                               | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|                                                           |                    | Ant1(Worst Data)       |                |        |
| 149                                                       | 5745               | 17.61                  | >500           | Pass   |
| 157                                                       | 5785               | 17.58                  |                | Pass   |
| 165                                                       | 5825               | 17.62                  |                | Pass   |

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 151         | 5755            | 36.36               | >500        | Pass   |
| 159         | 5795            | 36.36               |             | Pass   |

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 151         | 5755            | 36.36               | >500        | Pass   |
| 159         | 5795            | 36.35               |             | Pass   |

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 149         | 5745            | 17.58               | >500        | Pass   |
| 157         | 5785            | 17.60               |             | Pass   |
| 165         | 5825            | 17.60               |             | Pass   |

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 149         | 5745            | 17.59               | >500        | Pass   |
| 157         | 5785            | 17.78               |             | Pass   |
| 165         | 5825            | 17.61               |             | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 151         | 5755            | 36.39               | >500        | Pass   |
| 159         | 5795            | 36.38               |             | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 151         | 5755            | 36.38               | >500        | Pass   |
| 159         | 5795            | 36.36               |             | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 155         | 5775            | 76.17               | >500        | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 155         | 5775            | 76.45               | >500        | Pass   |



**Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 149         | 5745            | 18.38               | >500        | Pass   |
| 157         | 5785            | 18.57               |             | Pass   |
| 165         | 5825            | 18.76               |             | Pass   |

**Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 149         | 5745            | 18.92               | >500        | Pass   |
| 157         | 5785            | 18.56               |             | Pass   |
| 165         | 5825            | 18.70               |             | Pass   |

**Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 151         | 5755            | 37.26               | >500        | Pass   |
| 159         | 5795            | 37.33               |             | Pass   |

**Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 151         | 5755            | 37.32               | >500        | Pass   |
| 159         | 5795            | 37.33               |             | Pass   |

**Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1**

| Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|-------------|--------------------|------------------------|----------------|--------|
|             |                    | Ant1(Worst Data)       |                |        |
| 155         | 5775               | 76.41                  | >500           | Pass   |

**Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|-------------|--------------------|------------------------|----------------|--------|
|             |                    | Ant1(Worst Data)       |                |        |
| 155         | 5775               | 76.96                  | >500           | Pass   |

**Mode 11: Transmit by 802.11a with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 149         | 5745            | 16.38               | >500        | Pass   |
| 157         | 5785            | 16.37               |             | Pass   |
| 165         | 5825            | 16.36               |             | Pass   |

**Mode 11: Transmit by 802.11a with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 149         | 5745            | 16.40               | >500        | Pass   |
| 157         | 5785            | 16.38               |             | Pass   |
| 165         | 5825            | 16.37               |             | Pass   |

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 149         | 5745            | 17.61               | >500        | Pass   |
| 157         | 5785            | 17.64               |             | Pass   |
| 165         | 5825            | 17.61               |             | Pass   |

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 149         | 5745            | 17.63               | >500        | Pass   |
| 157         | 5785            | 17.63               |             | Pass   |
| 165         | 5825            | 17.61               |             | Pass   |

**Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|-------------|--------------------|------------------------|----------------|--------|
|             |                    | Ant1(Worst Data)       |                |        |
| 151         | 5755               | 36.36                  | >500           | Pass   |
| 159         | 5795               | 36.37                  |                | Pass   |

**Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|-------------|--------------------|------------------------|----------------|--------|
|             |                    | Ant1(Worst Data)       |                |        |
| 151         | 5755               | 36.32                  | >500           | Pass   |
| 159         | 5795               | 36.35                  |                | Pass   |

**Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|-------------|--------------------|------------------------|----------------|--------|
|             |                    | Ant1(Worst Data)       |                |        |
| 149         | 5745               | 17.62                  | >500           | Pass   |
| 157         | 5785               | 17.59                  |                | Pass   |
| 165         | 5825               | 17.61                  |                | Pass   |

**Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|-------------|--------------------|------------------------|----------------|--------|
|             |                    | Ant1(Worst Data)       |                |        |
| 149         | 5745               | 17.62                  | >500           | Pass   |
| 157         | 5785               | 17.61                  |                | Pass   |
| 165         | 5825               | 17.59                  |                | Pass   |

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|-------------|--------------------|------------------------|----------------|--------|
|             |                    | Ant1(Worst Data)       |                |        |
| 151         | 5755               | 36.11                  | >500           | Pass   |
| 159         | 5795               | 36.38                  |                | Pass   |

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|-------------|--------------------|------------------------|----------------|--------|
|             |                    | Ant1(Worst Data)       |                |        |
| 151         | 5755               | 36.35                  | >500           | Pass   |
| 159         | 5795               | 36.37                  |                | Pass   |

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|-------------|--------------------|------------------------|----------------|--------|
|             |                    | Ant1(Worst Data)       |                |        |
| 155         | 5775               | 75.76                  | >500           | Pass   |

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
|-------------|--------------------|------------------------|----------------|--------|
|             |                    | Ant1(Worst Data)       |                |        |
| 155         | 5775               | 75.53                  | >500           | Pass   |

**Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 149         | 5745            | 18.75               | >500        | Pass   |
| 157         | 5785            | 18.51               |             | Pass   |
| 165         | 5825            | 18.78               |             | Pass   |

**Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 149         | 5745            | 18.80               | >500        | Pass   |
| 157         | 5785            | 18.80               |             | Pass   |
| 165         | 5825            | 18.77               |             | Pass   |

**Mode18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 151         | 5755            | 37.29               | >500        | Pass   |
| 159         | 5795            | 37.38               |             | Pass   |

**Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 151         | 5755            | 37.30               | >500        | Pass   |
| 159         | 5795            | 36.77               |             | Pass   |

**Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 155         | 5775            | 75.69               | >500        | Pass   |

**Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
|             |                 | Ant1(Worst Data)    |             |        |
| 155         | 5775            | 76.40               | >500        | Pass   |

The worst case of 6dB Bandwidth as below:

**Mode 1: CH157 (5785MHz) Ant 0+1+2+3**

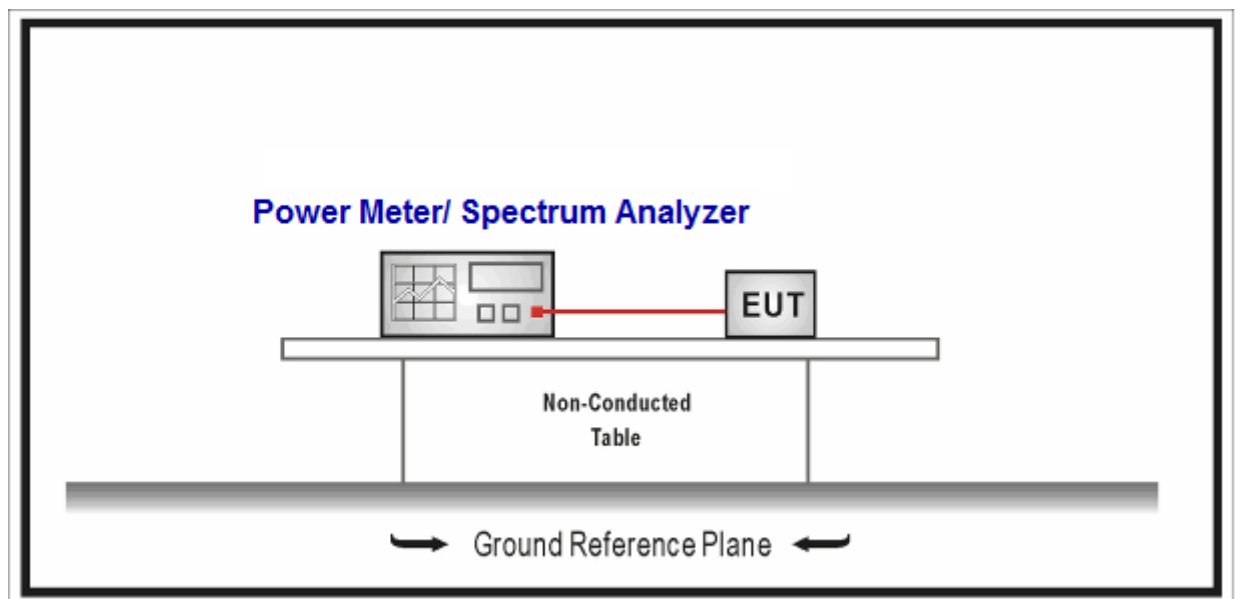
## 7. Power Output

### 7.1. Test Equipment

| Power Output / TR-8        |              |          |            |            |               |
|----------------------------|--------------|----------|------------|------------|---------------|
| Instrument                 | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer          | Agilent      | E4446A   | MY45300103 | 2018.01.04 | 2019.01.03    |
| Spectrum Analyzer          | Agilent      | N9010A   | MY48030494 | 2018.02.04 | 2019.02.03    |
| Wideband Peak Power Meter  | Anritsu      | ML2495A  | 0905006    | 2017.10.14 | 2018.10.13    |
| Power Sensor               | Anritsu      | MA2411B  | 0846014    | 2017.10.14 | 2018.10.13    |
| Temperature/Humidity Meter | zhicheng     | ZC1-2    | TR8-TH     | 2018.04.10 | 2019.04.09    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 7.2. Test Setup





### 7.3. Limit

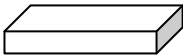
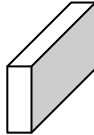
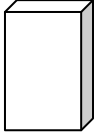
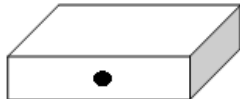
| Fundamental emission output power Limit                      |                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/>                          | For the band 5.15-5.25 GHz                                                                                                                                                                                                                                              |
| <input type="checkbox"/>                                     | Outdoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 30 - (G_{TX} - 6)$ and $\leq 125\text{mW}$ at any angle above 30 degrees                                                                  |
| <input checked="" type="checkbox"/>                          | Indoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 30 - (G_{TX} - 6)$                                                                                                                         |
| <input type="checkbox"/>                                     | Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 23\text{dBi}$ , then $P_{out} \leq 30 - (G_{TX} - 23)$                                                                                                        |
| <input type="checkbox"/>                                     | Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 24 - (G_{TX} - 6)$                                                                                                        |
| <input checked="" type="checkbox"/>                          | For the band 5.25-5.35 GHz:                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/>                          | The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$ , where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$ |
| <input checked="" type="checkbox"/>                          | For the 5.47-5.725 GHz:                                                                                                                                                                                                                                                 |
| <input checked="" type="checkbox"/>                          | The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$ , where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$ |
| <input checked="" type="checkbox"/>                          | For the band 5.725-5.85 GHz:                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/>                          | Point-to-multipoint systems (P2M): the maximum conducted output power ( $P_{out}$ ) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$ , then $P_{out} = 30 - (G_{TX} - 6)$                                                                                |
| <input type="checkbox"/>                                     | Point-to-point systems (P2P): the maximum conducted output power ( $P_{out}$ ) shall not exceed the lesser of 1 W                                                                                                                                                       |
| Note 1 : $G_{TX}$ directional gain of transmitting antennas. |                                                                                                                                                                                                                                                                         |
| Note 2 : $P_{out}$ is maximum peak conducted output power .  |                                                                                                                                                                                                                                                                         |

## 7.4. Test Procedure

| Fundamental emission output power Test Method |                                     |                                                 |          |                                                                                           |
|-----------------------------------------------|-------------------------------------|-------------------------------------------------|----------|-------------------------------------------------------------------------------------------|
|                                               | References Rule                     |                                                 | Chapter  | Description                                                                               |
| <input checked="" type="checkbox"/>           | ANSI C63.10                         |                                                 | 12.3     | Maximum conducted output power                                                            |
|                                               | <input checked="" type="checkbox"/> | ANSI C63.10                                     | 12.3.2   | Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver |
|                                               |                                     | <input checked="" type="checkbox"/> ANSI C63.10 | 12.3.2.2 | Method SA-1                                                                               |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.2.3 | Method SA-1A (alternative)                                                                |
|                                               |                                     | <input checked="" type="checkbox"/> ANSI C63.10 | 12.3.2.4 | Method SA-2                                                                               |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.2.5 | Method SA-2A (alternative)                                                                |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.2.6 | Method SA-3                                                                               |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.2.7 | Method SA-3A (alternative)                                                                |
|                                               | <input checked="" type="checkbox"/> | ANSI C63.10                                     | 12.3.3   | Maximum conducted output power using a power meter                                        |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.3.1 | Method PM                                                                                 |
|                                               |                                     | <input checked="" type="checkbox"/> ANSI C63.10 | 12.3.3.2 | Method PM-G                                                                               |

| Directional Gain Calculations for In-Band test method |                                     |             |             |                                                                   |
|-------------------------------------------------------|-------------------------------------|-------------|-------------|-------------------------------------------------------------------|
|                                                       | References Rule                     |             | Chapter     | Description                                                       |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)a)       | Basic methodology                                                 |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)a) (i)   | transmit signals are correlated                                   |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)a) (ii)  | transmit signals are uncorrelated                                 |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)b)       | Sectorized antenna systems.                                       |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)c)       | Cross-polarized antennas                                          |
|                                                       | <input type="checkbox"/>            | ANSI C63.10 | F2)c) (i)   | Cross-polarized antennas                                          |
|                                                       | <input type="checkbox"/>            | ANSI C63.10 | F2)c) (ii)  | Multiple antennas                                                 |
| <input checked="" type="checkbox"/>                   | KDB 662911                          |             | F2)e)       | Spatial stream                                                    |
|                                                       | <input checked="" type="checkbox"/> | KDB 662911  | F2)e) (i)   | Antennas have the same gain                                       |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)e) (ii)  | Antenna have the different gain with one spatial stream           |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)e) (iii) | Antenna have the different gain with more than one spatial stream |
| <input checked="" type="checkbox"/>                   | KDB 662911                          |             | F2)f)       | Cyclic Delay Diversity (CDD)                                      |
|                                                       | <input checked="" type="checkbox"/> | KDB 662911  | F2)f) (i)   | Antennas have the same gain                                       |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)f) (ii)  | Antenna have the different gain with one spatial stream           |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)f) (iii) | Antenna have the different gain with more than one spatial stream |

### 7.5. EUT test Axis definition

| Item            | Power Output                                                                         |                                                                                      |                                                                                      |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Device Category | <input checked="" type="checkbox"/>                                                  | Indoor use                                                                           |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Outdoor use                                                                          |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Fix position use                                                                     |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Client use                                                                           |                                                                                      |                                                                                      |
| Test mode       | Mode 1-20                                                                            |                                                                                      |                                                                                      |                                                                                      |
| Test method     | <input type="checkbox"/>                                                             | Radiated                                                                             |                                                                                      |                                                                                      |
|                 |                                                                                      | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |
|                 |                                                                                      |     |  |  |
|                 |                                                                                      | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |
|                 | <input checked="" type="checkbox"/>                                                  | Conducted                                                                            |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              |                                                                                      |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input checked="" type="checkbox"/>                                                  | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |
|                 |  |                                                                                      |                                                                                      |                                                                                      |

## 7.6. Test Result

|              |                         |               |                |
|--------------|-------------------------|---------------|----------------|
| Product Name | : Wireless Access Point | Power         | : AC 120V/60Hz |
| Test Mode    | : Mode 1~20             | Test Site     | : TR8          |
| Test Date    | : 2018.05.24            | Test Engineer | : Tommie       |

Eth6:

| Mode 1: Transmit by 802.11a with CDD by Ant 1+2 |                    |                        |       |                      |                |        |
|-------------------------------------------------|--------------------|------------------------|-------|----------------------|----------------|--------|
| Channel No.                                     | Frequency<br>(MHz) | Measurement Power(dBm) |       | Total Power<br>(dBm) | Limit<br>(dBm) | Result |
|                                                 |                    | Ant1                   | Ant2  |                      |                |        |
| CH36                                            | 5180               | 18.24                  | 18.11 | 21.19                | 30.00          | Pass   |
| CH44                                            | 5220               | 17.86                  | 17.65 | 20.77                | 30.00          | Pass   |
| CH48                                            | 5240               | 18.01                  | 18.32 | 21.18                | 30.00          | Pass   |
| CH52                                            | 5260               | 16.66                  | 16.60 | 19.64                | 24.00          | Pass   |
| CH60                                            | 5300               | 16.88                  | 17.11 | 20.01                | 24.00          | Pass   |
| CH64                                            | 5320               | 17.55                  | 17.16 | 20.37                | 24.00          | Pass   |
| CH100                                           | 5500               | 17.61                  | 17.25 | 20.44                | 24.00          | Pass   |
| CH116                                           | 5580               | 16.90                  | 17.29 | 20.11                | 24.00          | Pass   |
| CH140                                           | 5700               | 17.31                  | 17.49 | 20.41                | 24.00          | Pass   |
| CH144                                           | 5720               | 17.11                  | 17.37 | 20.25                | 24.00          | Pass   |
| CH149                                           | 5745               | 20.93                  | 20.29 | 23.63                | 30.00          | Pass   |
| CH157                                           | 5785               | 20.44                  | 20.38 | 23.42                | 30.00          | Pass   |
| CH165                                           | 5825               | 20.89                  | 21.02 | 23.97                | 30.00          | Pass   |

| Mode 1: Transmit by 802.11a with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|-----------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                         | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                     |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                | 5180            | 15.62                  | 15.08 | 14.93 | 15.22 | 21.24             | 30.00       | Pass   |
| CH44                                                | 5220            | 15.28                  | 14.67 | 15.32 | 14.97 | 21.09             | 30.00       | Pass   |
| CH48                                                | 5240            | 14.96                  | 15.22 | 14.99 | 15.02 | 21.07             | 30.00       | Pass   |
| CH52                                                | 5260            | 12.87                  | 13.01 | 13.84 | 13.57 | 19.36             | 24.00       | Pass   |
| CH60                                                | 5300            | 12.48                  | 12.86 | 13.36 | 13.45 | 19.08             | 24.00       | Pass   |
| CH64                                                | 5320            | 12.13                  | 12.19 | 13.29 | 13.46 | 18.83             | 24.00       | Pass   |
| CH100                                               | 5500            | 12.79                  | 13.11 | 13.88 | 13.90 | 19.47             | 24.00       | Pass   |
| CH116                                               | 5580            | 12.06                  | 12.13 | 13.40 | 13.17 | 18.75             | 24.00       | Pass   |
| CH140                                               | 5700            | 11.69                  | 11.99 | 13.85 | 13.46 | 18.87             | 24.00       | Pass   |
| CH144                                               | 5720            | 11.34                  | 11.83 | 13.73 | 13.23 | 18.66             | 24.00       | Pass   |
| CH149                                               | 5745            | 18.85                  | 18.40 | 18.77 | 18.37 | 24.62             | 30.00       | Pass   |
| CH157                                               | 5785            | 18.26                  | 18.59 | 19.00 | 17.89 | 24.47             | 30.00       | Pass   |
| CH165                                               | 5825            | 17.81                  | 18.64 | 18.64 | 18.34 | 24.39             | 30.00       | Pass   |

| Mode 1: Transmit by 802.11a with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|----------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                              | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                          |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                     | 5180            | 17.39                  | 17.40 | 20.40             | 27.00       | Pass   |
| CH44                                                     | 5220            | 17.45                  | 17.14 | 20.31             | 27.00       | Pass   |
| CH48                                                     | 5240            | 17.09                  | 17.10 | 20.11             | 27.00       | Pass   |
| CH52                                                     | 5260            | 13.47                  | 13.48 | 16.49             | 21.00       | Pass   |
| CH60                                                     | 5300            | 14.01                  | 13.93 | 16.98             | 21.00       | Pass   |
| CH64                                                     | 5320            | 14.70                  | 13.61 | 17.20             | 21.00       | Pass   |
| CH100                                                    | 5500            | 14.17                  | 14.12 | 17.16             | 21.00       | Pass   |
| CH116                                                    | 5580            | 14.25                  | 14.00 | 17.14             | 21.00       | Pass   |
| CH140                                                    | 5700            | 13.95                  | 14.33 | 17.15             | 21.00       | Pass   |
| CH144                                                    | 5720            | 14.04                  | 14.28 | 17.17             | 21.00       | Pass   |
| CH149                                                    | 5745            | 20.03                  | 19.64 | 22.85             | 27.00       | Pass   |
| CH157                                                    | 5785            | 20.00                  | 20.32 | 23.17             | 27.00       | Pass   |
| CH165                                                    | 5825            | 19.21                  | 19.67 | 22.46             | 27.00       | Pass   |

| Mode 1: Transmit by 802.11a with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|--------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                  | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                              |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                         | 5180            | 15.07                  | 14.68 | 15.17 | 14.51 | 20.89             | 24.00       | Pass   |
| CH44                                                         | 5220            | 14.67                  | 14.44 | 14.80 | 14.95 | 20.74             | 24.00       | Pass   |
| CH48                                                         | 5240            | 14.91                  | 15.26 | 15.35 | 14.57 | 21.05             | 24.00       | Pass   |
| CH52                                                         | 5260            | 7.00                   | 7.28  | 7.96  | 7.63  | 13.50             | 18.00       | Pass   |
| CH60                                                         | 5300            | 7.19                   | 7.54  | 7.73  | 7.40  | 13.49             | 18.00       | Pass   |
| CH64                                                         | 5320            | 7.66                   | 6.46  | 7.84  | 7.69  | 13.47             | 18.00       | Pass   |
| CH100                                                        | 5500            | 7.62                   | 7.46  | 8.11  | 8.38  | 13.93             | 18.00       | Pass   |
| CH116                                                        | 5580            | 7.36                   | 7.62  | 7.80  | 7.88  | 13.69             | 18.00       | Pass   |
| CH140                                                        | 5700            | 7.39                   | 7.71  | 8.19  | 8.03  | 13.86             | 18.00       | Pass   |
| CH144                                                        | 5720            | 7.25                   | 7.66  | 7.87  | 7.73  | 13.65             | 18.00       | Pass   |
| CH149                                                        | 5745            | 17.77                  | 17.89 | 18.44 | 17.68 | 23.98             | 24.00       | Pass   |
| CH157                                                        | 5785            | 17.63                  | 17.68 | 18.39 | 17.87 | 23.92             | 24.00       | Pass   |
| CH165                                                        | 5825            | 17.43                  | 17.78 | 17.93 | 17.84 | 23.77             | 24.00       | Pass   |

| Mode 2: Transmit by 802.11n(20MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|--------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                            | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                        |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                   | 5180            | 18.30                  | 17.80 | 21.07             | 30.00       | Pass   |
| CH44                                                   | 5220            | 18.65                  | 18.01 | 21.35             | 30.00       | Pass   |
| CH48                                                   | 5240            | 18.15                  | 18.13 | 21.15             | 30.00       | Pass   |
| CH52                                                   | 5260            | 16.75                  | 16.70 | 19.74             | 24.00       | Pass   |
| CH60                                                   | 5300            | 17.55                  | 17.44 | 20.51             | 24.00       | Pass   |
| CH64                                                   | 5320            | 16.69                  | 17.28 | 20.01             | 24.00       | Pass   |
| CH100                                                  | 5500            | 17.56                  | 17.61 | 20.60             | 24.00       | Pass   |
| CH116                                                  | 5580            | 17.43                  | 17.34 | 20.40             | 24.00       | Pass   |
| CH140                                                  | 5700            | 17.44                  | 16.98 | 20.23             | 24.00       | Pass   |
| CH144                                                  | 5720            | 17.28                  | 17.44 | 20.37             | 24.00       | Pass   |
| CH149                                                  | 5745            | 20.61                  | 20.48 | 23.56             | 30.00       | Pass   |
| CH157                                                  | 5785            | 20.44                  | 20.56 | 23.51             | 30.00       | Pass   |
| CH165                                                  | 5825            | 20.88                  | 20.03 | 23.49             | 30.00       | Pass   |

| Mode 2: Transmit by 802.11n(20MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                            |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                       | 5180            | 15.00                  | 14.07 | 14.57 | 14.22 | 20.50             | 30.00       | Pass   |
| CH44                                                       | 5220            | 15.25                  | 14.37 | 14.72 | 14.84 | 20.83             | 30.00       | Pass   |
| CH48                                                       | 5240            | 15.03                  | 14.30 | 15.01 | 14.62 | 20.77             | 30.00       | Pass   |
| CH52                                                       | 5260            | 12.88                  | 12.57 | 14.39 | 14.06 | 19.56             | 24.00       | Pass   |
| CH60                                                       | 5300            | 12.10                  | 12.48 | 14.55 | 13.93 | 19.40             | 24.00       | Pass   |
| CH64                                                       | 5320            | 12.06                  | 12.58 | 14.73 | 13.77 | 19.43             | 24.00       | Pass   |
| CH100                                                      | 5500            | 12.71                  | 13.41 | 14.38 | 14.42 | 19.81             | 24.00       | Pass   |
| CH116                                                      | 5580            | 12.03                  | 12.66 | 14.38 | 13.91 | 19.37             | 24.00       | Pass   |
| CH140                                                      | 5700            | 11.78                  | 12.19 | 13.78 | 14.11 | 19.10             | 24.00       | Pass   |
| CH144                                                      | 5720            | 12.01                  | 12.11 | 13.43 | 13.87 | 18.95             | 24.00       | Pass   |
| CH149                                                      | 5745            | 17.98                  | 18.03 | 17.90 | 17.56 | 23.89             | 30.00       | Pass   |
| CH157                                                      | 5785            | 17.68                  | 17.51 | 18.03 | 17.51 | 23.71             | 30.00       | Pass   |
| CH165                                                      | 5825            | 18.35                  | 18.35 | 18.27 | 17.11 | 24.07             | 30.00       | Pass   |

| Mode 2: Transmit by 802.11n(20MHz) with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|-----------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                     | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                 |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                            | 5180            | 17.22                  | 16.87 | 20.06             | 27.00       | Pass   |
| CH44                                                            | 5220            | 17.96                  | 17.35 | 20.68             | 27.00       | Pass   |
| CH48                                                            | 5240            | 17.40                  | 17.01 | 20.22             | 27.00       | Pass   |
| CH52                                                            | 5260            | 13.51                  | 12.86 | 16.21             | 21.00       | Pass   |
| CH60                                                            | 5300            | 12.82                  | 12.69 | 15.76             | 21.00       | Pass   |
| CH64                                                            | 5320            | 13.73                  | 13.21 | 16.49             | 21.00       | Pass   |
| CH100                                                           | 5500            | 13.96                  | 13.33 | 16.67             | 21.00       | Pass   |
| CH116                                                           | 5580            | 13.05                  | 13.57 | 16.33             | 21.00       | Pass   |
| CH140                                                           | 5700            | 13.90                  | 12.79 | 16.39             | 21.00       | Pass   |
| CH144                                                           | 5720            | 13.60                  | 13.17 | 16.40             | 21.00       | Pass   |
| CH149                                                           | 5745            | 19.71                  | 20.04 | 22.89             | 27.00       | Pass   |
| CH157                                                           | 5785            | 20.20                  | 19.27 | 22.77             | 27.00       | Pass   |
| CH165                                                           | 5825            | 19.46                  | 19.00 | 22.25             | 27.00       | Pass   |



| Mode 2: Transmit by 802.11n(20MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|---------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                         | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                     |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                                | 5180            | 15.02                  | 14.45 | 14.89 | 15.10 | 20.89             | 24.00       | Pass   |
| CH44                                                                | 5220            | 14.95                  | 14.74 | 15.25 | 15.31 | 21.09             | 24.00       | Pass   |
| CH48                                                                | 5240            | 14.62                  | 14.83 | 15.36 | 15.11 | 21.01             | 24.00       | Pass   |
| CH52                                                                | 5260            | 8.61                   | 8.12  | 7.63  | 7.72  | 14.06             | 18.00       | Pass   |
| CH60                                                                | 5300            | 7.92                   | 7.49  | 8.19  | 8.26  | 14.00             | 18.00       | Pass   |
| CH64                                                                | 5320            | 7.95                   | 7.78  | 7.66  | 8.83  | 14.10             | 18.00       | Pass   |
| CH100                                                               | 5500            | 7.85                   | 7.68  | 7.56  | 8.36  | 13.89             | 18.00       | Pass   |
| CH116                                                               | 5580            | 8.00                   | 7.57  | 7.47  | 8.43  | 13.90             | 18.00       | Pass   |
| CH140                                                               | 5700            | 7.46                   | 7.60  | 8.14  | 7.86  | 13.79             | 18.00       | Pass   |
| CH144                                                               | 5720            | 7.67                   | 8.03  | 8.05  | 7.98  | 13.96             | 18.00       | Pass   |
| CH149                                                               | 5745            | 17.81                  | 17.66 | 17.81 | 17.26 | 23.66             | 24.00       | Pass   |
| CH157                                                               | 5785            | 17.56                  | 17.44 | 17.77 | 17.17 | 23.51             | 24.00       | Pass   |
| CH165                                                               | 5825            | 17.86                  | 17.74 | 17.86 | 17.26 | 23.71             | 24.00       | Pass   |

| Mode 3: Transmit by 802.11n(40MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|--------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                            | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                        |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                                   | 5190            | 16.85                  | 16.96 | 19.92             | 30.00       | Pass   |
| CH46                                                   | 5230            | 16.58                  | 17.18 | 19.90             | 30.00       | Pass   |
| CH54                                                   | 5270            | 15.98                  | 15.68 | 18.84             | 24.00       | Pass   |
| CH62                                                   | 5310            | 15.97                  | 15.32 | 18.67             | 24.00       | Pass   |
| CH102                                                  | 5510            | 17.22                  | 16.96 | 20.10             | 24.00       | Pass   |
| CH110                                                  | 5550            | 16.46                  | 16.28 | 19.38             | 24.00       | Pass   |
| CH134                                                  | 5670            | 17.62                  | 17.30 | 20.47             | 24.00       | Pass   |
| CH142                                                  | 5710            | 17.57                  | 16.85 | 20.24             | 24.00       | Pass   |
| CH151                                                  | 5755            | 20.19                  | 20.19 | 23.20             | 30.00       | Pass   |
| CH159                                                  | 5795            | 19.88                  | 19.65 | 22.78             | 30.00       | Pass   |

| <b>Mode 3: Transmit by 802.11n(40MHz) with CDD by Ant 1+2+3+4</b> |                 |                        |       |       |       |                   |             |        |
|-------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                       | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                   |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38                                                              | 5190            | 12.81                  | 11.44 | 12.89 | 12.04 | 18.36             | 30.00       | Pass   |
| CH46                                                              | 5230            | 12.75                  | 11.96 | 12.35 | 11.87 | 18.27             | 30.00       | Pass   |
| CH54                                                              | 5270            | 12.32                  | 12.02 | 12.11 | 12.09 | 18.16             | 24.00       | Pass   |
| CH62                                                              | 5310            | 12.20                  | 11.04 | 11.77 | 12.33 | 17.88             | 24.00       | Pass   |
| CH102                                                             | 5510            | 13.33                  | 12.93 | 13.28 | 12.06 | 18.95             | 24.00       | Pass   |
| CH110                                                             | 5550            | 13.11                  | 12.58 | 13.19 | 11.69 | 18.70             | 24.00       | Pass   |
| CH134                                                             | 5670            | 13.32                  | 13.27 | 13.76 | 13.27 | 19.43             | 24.00       | Pass   |
| CH142                                                             | 5710            | 13.43                  | 13.53 | 13.58 | 13.34 | 19.49             | 24.00       | Pass   |
| CH151                                                             | 5755            | 18.12                  | 18.01 | 18.18 | 18.41 | 24.20             | 30.00       | Pass   |
| CH159                                                             | 5795            | 19.29                  | 18.76 | 19.84 | 18.87 | 25.23             | 30.00       | Pass   |

| <b>Mode 3: Transmit by 802.11n(40MHz) with Beam-forming by Ant 1+2</b> |                 |                        |       |                   |             |        |
|------------------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                            | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                        |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                                                   | 5190            | 15.91                  | 15.97 | 18.95             | 27.00       | Pass   |
| CH46                                                                   | 5230            | 15.71                  | 15.38 | 18.56             | 27.00       | Pass   |
| CH54                                                                   | 5270            | 15.03                  | 14.86 | 17.96             | 21.00       | Pass   |
| CH62                                                                   | 5310            | 14.85                  | 14.52 | 17.70             | 21.00       | Pass   |
| CH102                                                                  | 5510            | 14.31                  | 13.30 | 16.84             | 21.00       | Pass   |
| CH110                                                                  | 5550            | 12.95                  | 13.74 | 16.37             | 21.00       | Pass   |
| CH134                                                                  | 5670            | 14.61                  | 13.69 | 17.18             | 21.00       | Pass   |
| CH142                                                                  | 5710            | 14.47                  | 13.86 | 17.19             | 21.00       | Pass   |
| CH151                                                                  | 5755            | 19.01                  | 19.33 | 22.18             | 27.00       | Pass   |
| CH159                                                                  | 5795            | 18.74                  | 18.52 | 21.64             | 27.00       | Pass   |

| Mode 3: Transmit by 802.11n(40MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|---------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                         | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                     |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38                                                                | 5190            | 12.11                  | 11.21 | 12.38 | 11.89 | 17.94             | 24.00       | Pass   |
| CH46                                                                | 5230            | 11.80                  | 11.25 | 11.46 | 11.24 | 17.46             | 24.00       | Pass   |
| CH54                                                                | 5270            | 7.93                   | 8.40  | 8.16  | 8.19  | 14.19             | 18.00       | Pass   |
| CH62                                                                | 5310            | 9.11                   | 8.58  | 8.36  | 8.59  | 14.69             | 18.00       | Pass   |
| CH102                                                               | 5510            | 8.80                   | 8.25  | 8.46  | 8.24  | 14.46             | 18.00       | Pass   |
| CH110                                                               | 5550            | 7.93                   | 8.40  | 8.16  | 8.19  | 14.19             | 18.00       | Pass   |
| CH134                                                               | 5670            | 8.39                   | 8.36  | 8.80  | 8.62  | 14.57             | 18.00       | Pass   |
| CH142                                                               | 5710            | 8.29                   | 8.21  | 8.44  | 8.39  | 14.35             | 18.00       | Pass   |
| CH151                                                               | 5755            | 18.15                  | 17.41 | 17.86 | 18.05 | 23.90             | 24.00       | Pass   |
| CH159                                                               | 5795            | 17.80                  | 17.68 | 18.26 | 18.09 | 23.98             | 24.00       | Pass   |

| Mode 4: Transmit by 802.11ac(20MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|---------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                             | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                         |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                    | 5180            | 18.51                  | 18.44 | 21.49             | 30.00       | Pass   |
| CH44                                                    | 5220            | 17.91                  | 18.21 | 21.07             | 30.00       | Pass   |
| CH48                                                    | 5240            | 18.35                  | 18.39 | 21.38             | 30.00       | Pass   |
| CH52                                                    | 5260            | 17.00                  | 16.94 | 19.98             | 24.00       | Pass   |
| CH60                                                    | 5300            | 17.29                  | 16.81 | 20.07             | 24.00       | Pass   |
| CH64                                                    | 5320            | 17.58                  | 17.25 | 20.43             | 24.00       | Pass   |
| CH100                                                   | 5500            | 17.38                  | 17.13 | 20.27             | 24.00       | Pass   |
| CH116                                                   | 5580            | 16.82                  | 16.68 | 19.76             | 24.00       | Pass   |
| CH140                                                   | 5700            | 17.64                  | 16.90 | 20.30             | 24.00       | Pass   |
| CH144                                                   | 5720            | 17.08                  | 16.78 | 19.94             | 24.00       | Pass   |
| CH149                                                   | 5745            | 20.15                  | 20.60 | 23.39             | 30.00       | Pass   |
| CH157                                                   | 5785            | 20.35                  | 21.13 | 23.77             | 30.00       | Pass   |
| CH165                                                   | 5825            | 20.99                  | 20.99 | 24.00             | 30.00       | Pass   |

| Mode 4: Transmit by 802.11ac(20MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|-------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                        | 5180            | 14.98                  | 14.22 | 14.77 | 14.50 | 20.65             | 30.00       | Pass   |
| CH44                                                        | 5220            | 14.24                  | 14.05 | 14.69 | 14.74 | 20.46             | 30.00       | Pass   |
| CH48                                                        | 5240            | 14.76                  | 13.86 | 14.72 | 14.67 | 20.54             | 30.00       | Pass   |
| CH52                                                        | 5260            | 12.24                  | 12.78 | 14.52 | 13.76 | 19.43             | 24.00       | Pass   |
| CH60                                                        | 5300            | 12.11                  | 12.79 | 13.99 | 13.65 | 19.22             | 24.00       | Pass   |
| CH64                                                        | 5320            | 11.89                  | 12.54 | 14.26 | 13.24 | 19.09             | 24.00       | Pass   |
| CH100                                                       | 5500            | 12.55                  | 12.87 | 13.98 | 13.53 | 19.29             | 24.00       | Pass   |
| CH116                                                       | 5580            | 11.92                  | 11.81 | 13.78 | 13.54 | 18.88             | 24.00       | Pass   |
| CH140                                                       | 5700            | 11.86                  | 11.63 | 13.27 | 13.24 | 18.59             | 24.00       | Pass   |
| CH144                                                       | 5720            | 12.03                  | 11.77 | 12.98 | 13.05 | 18.51             | 24.00       | Pass   |
| CH149                                                       | 5745            | 17.61                  | 17.73 | 17.75 | 17.99 | 23.79             | 30.00       | Pass   |
| CH157                                                       | 5785            | 18.09                  | 17.89 | 17.99 | 17.49 | 23.89             | 30.00       | Pass   |
| CH165                                                       | 5825            | 18.23                  | 17.73 | 18.06 | 17.33 | 23.87             | 30.00       | Pass   |

| Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|------------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                      | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                  |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                             | 5180            | 16.84                  | 16.75 | 19.81             | 27.00       | Pass   |
| CH44                                                             | 5220            | 17.43                  | 17.56 | 20.51             | 27.00       | Pass   |
| CH48                                                             | 5240            | 17.62                  | 17.37 | 20.51             | 27.00       | Pass   |
| CH52                                                             | 5260            | 13.67                  | 13.66 | 16.68             | 21.00       | Pass   |
| CH60                                                             | 5300            | 13.83                  | 13.65 | 16.75             | 21.00       | Pass   |
| CH64                                                             | 5320            | 14.11                  | 14.23 | 17.18             | 21.00       | Pass   |
| CH100                                                            | 5500            | 14.45                  | 13.78 | 17.14             | 21.00       | Pass   |
| CH116                                                            | 5580            | 14.12                  | 13.73 | 16.94             | 21.00       | Pass   |
| CH140                                                            | 5700            | 14.21                  | 13.93 | 17.08             | 21.00       | Pass   |
| CH144                                                            | 5720            | 13.74                  | 14.35 | 17.07             | 21.00       | Pass   |
| CH149                                                            | 5745            | 19.09                  | 20.17 | 22.67             | 27.00       | Pass   |
| CH157                                                            | 5785            | 19.23                  | 20.30 | 22.81             | 27.00       | Pass   |
| CH165                                                            | 5825            | 19.84                  | 20.02 | 22.94             | 27.00       | Pass   |

| Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|----------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                          | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                      |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                                 | 5180            | 15.31                  | 14.11 | 14.85 | 14.50 | 20.74             | 24.00       | Pass   |
| CH44                                                                 | 5220            | 14.84                  | 14.00 | 14.78 | 14.85 | 20.65             | 24.00       | Pass   |
| CH48                                                                 | 5240            | 14.51                  | 14.58 | 14.43 | 15.25 | 20.73             | 24.00       | Pass   |
| CH52                                                                 | 5260            | 8.53                   | 7.85  | 8.19  | 8.36  | 14.26             | 18.00       | Pass   |
| CH60                                                                 | 5300            | 7.67                   | 7.36  | 8.08  | 7.67  | 13.72             | 18.00       | Pass   |
| CH64                                                                 | 5320            | 7.81                   | 7.89  | 8.12  | 8.68  | 14.16             | 18.00       | Pass   |
| CH100                                                                | 5500            | 7.63                   | 8.08  | 8.66  | 8.30  | 14.20             | 18.00       | Pass   |
| CH116                                                                | 5580            | 7.36                   | 7.99  | 8.68  | 7.81  | 14.01             | 18.00       | Pass   |
| CH140                                                                | 5700            | 7.99                   | 7.87  | 8.24  | 7.92  | 14.03             | 18.00       | Pass   |
| CH144                                                                | 5720            | 8.23                   | 8.10  | 8.39  | 8.21  | 14.25             | 18.00       | Pass   |
| CH149                                                                | 5745            | 17.32                  | 17.32 | 18.03 | 18.08 | 23.72             | 24.00       | Pass   |
| CH157                                                                | 5785            | 17.74                  | 17.97 | 17.21 | 17.25 | 23.58             | 24.00       | Pass   |
| CH165                                                                | 5825            | 18.19                  | 17.80 | 18.06 | 17.15 | 23.84             | 24.00       | Pass   |

| Mode 5: Transmit by 802.11ac(40MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|---------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                             | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                         |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                                    | 5190            | 16.68                  | 16.33 | 19.52             | 30.00       | Pass   |
| CH46                                                    | 5230            | 17.32                  | 17.01 | 20.18             | 30.00       | Pass   |
| CH54                                                    | 5270            | 16.18                  | 15.28 | 18.76             | 24.00       | Pass   |
| CH62                                                    | 5310            | 15.94                  | 15.64 | 18.80             | 24.00       | Pass   |
| CH102                                                   | 5510            | 17.63                  | 17.04 | 20.36             | 24.00       | Pass   |
| CH110                                                   | 5550            | 16.65                  | 16.63 | 19.65             | 24.00       | Pass   |
| CH134                                                   | 5670            | 17.17                  | 17.30 | 20.25             | 24.00       | Pass   |
| CH142                                                   | 5710            | 17.48                  | 17.04 | 20.28             | 24.00       | Pass   |
| CH151                                                   | 5755            | 20.28                  | 20.96 | 23.64             | 30.00       | Pass   |
| CH159                                                   | 5795            | 20.70                  | 21.06 | 23.89             | 30.00       | Pass   |

| Mode 5: Transmit by 802.11ac(40MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|-------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38                                                        | 5190            | 12.67                  | 11.53 | 12.47 | 12.19 | 18.26             | 30.00       | Pass   |
| CH46                                                        | 5230            | 12.35                  | 11.69 | 12.98 | 12.24 | 18.36             | 30.00       | Pass   |
| CH54                                                        | 5270            | 12.23                  | 11.75 | 12.51 | 12.67 | 18.32             | 24.00       | Pass   |
| CH62                                                        | 5310            | 12.39                  | 11.97 | 12.23 | 12.79 | 18.38             | 24.00       | Pass   |
| CH102                                                       | 5510            | 13.75                  | 13.04 | 13.85 | 12.03 | 19.25             | 24.00       | Pass   |
| CH110                                                       | 5550            | 13.61                  | 12.89 | 13.27 | 12.13 | 19.03             | 24.00       | Pass   |
| CH134                                                       | 5670            | 13.86                  | 12.70 | 13.55 | 14.03 | 19.58             | 24.00       | Pass   |
| CH142                                                       | 5710            | 13.82                  | 12.79 | 13.61 | 13.89 | 19.57             | 24.00       | Pass   |
| CH151                                                       | 5755            | 18.64                  | 17.78 | 18.98 | 18.73 | 24.58             | 30.00       | Pass   |
| CH159                                                       | 5795            | 19.80                  | 19.63 | 20.49 | 19.41 | 25.87             | 30.00       | Pass   |

| Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|------------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                      | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                  |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                                             | 5190            | 15.69                  | 15.21 | 18.47             | 27.00       | Pass   |
| CH46                                                             | 5230            | 15.75                  | 15.48 | 18.63             | 27.00       | Pass   |
| CH54                                                             | 5270            | 14.40                  | 14.81 | 17.62             | 21.00       | Pass   |
| CH62                                                             | 5310            | 15.02                  | 14.66 | 17.85             | 21.00       | Pass   |
| CH102                                                            | 5510            | 13.94                  | 14.51 | 17.24             | 21.00       | Pass   |
| CH110                                                            | 5550            | 13.72                  | 13.37 | 16.56             | 21.00       | Pass   |
| CH134                                                            | 5670            | 14.50                  | 13.57 | 17.07             | 21.00       | Pass   |
| CH142                                                            | 5710            | 15.14                  | 14.28 | 17.74             | 21.00       | Pass   |
| CH151                                                            | 5755            | 19.05                  | 19.60 | 22.34             | 27.00       | Pass   |
| CH159                                                            | 5795            | 19.39                  | 19.45 | 22.43             | 27.00       | Pass   |

| <b>Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming by Ant 1+2+3+4</b> |                 |                        |       |       |       |                   |             |        |
|-----------------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                                 | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38                                                                        | 5190            | 11.75                  | 10.63 | 11.21 | 11.57 | 17.33             | 24.00       | Pass   |
| CH46                                                                        | 5230            | 11.49                  | 10.64 | 11.96 | 11.09 | 17.34             | 24.00       | Pass   |
| CH54                                                                        | 5270            | 8.38                   | 8.00  | 7.70  | 8.42  | 14.16             | 18.00       | Pass   |
| CH62                                                                        | 5310            | 8.72                   | 8.08  | 7.92  | 8.46  | 14.33             | 18.00       | Pass   |
| CH102                                                                       | 5510            | 7.79                   | 7.91  | 8.46  | 8.78  | 14.27             | 18.00       | Pass   |
| CH110                                                                       | 5550            | 7.33                   | 7.88  | 8.22  | 8.18  | 13.94             | 18.00       | Pass   |
| CH134                                                                       | 5670            | 8.59                   | 7.83  | 8.38  | 8.45  | 14.34             | 18.00       | Pass   |
| CH142                                                                       | 5710            | 8.44                   | 8.19  | 8.21  | 8.20  | 14.28             | 18.00       | Pass   |
| CH151                                                                       | 5755            | 17.65                  | 17.82 | 17.98 | 18.02 | 23.89             | 24.00       | Pass   |
| CH159                                                                       | 5795            | 17.57                  | 17.89 | 18.14 | 18.06 | 23.94             | 24.00       | Pass   |

| <b>Mode 6: Transmit by 802.11ac(80MHz) with CDD by Ant 1+2</b> |                 |                        |       |                   |             |        |
|----------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                    | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                |                 | Ant1                   | Ant2  |                   |             |        |
| CH42                                                           | 5210            | 16.22                  | 16.29 | 19.27             | 30.00       | Pass   |
| CH58                                                           | 5290            | 15.54                  | 15.59 | 18.58             | 24.00       | Pass   |
| CH106                                                          | 5530            | 14.94                  | 14.85 | 17.91             | 24.00       | Pass   |
| CH138                                                          | 5690            | 15.27                  | 14.61 | 17.96             | 24.00       | Pass   |
| CH155                                                          | 5775            | 18.49                  | 18.33 | 21.42             | 30.00       | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH42        | 5210            | 11.34                  | 11.38 | 11.72 | 10.33 | 17.24             | 30.00       | Pass   |
| CH58        | 5290            | 11.76                  | 10.75 | 11.38 | 11.93 | 17.50             | 24.00       | Pass   |
| CH106       | 5530            | 12.23                  | 10.59 | 11.46 | 11.42 | 17.48             | 24.00       | Pass   |
| CH138       | 5690            | 11.92                  | 11.32 | 11.52 | 11.63 | 17.62             | 24.00       | Pass   |
| CH155       | 5775            | 14.52                  | 13.58 | 14.60 | 13.53 | 20.11             | 30.00       | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH42        | 5210            | 15.83                  | 14.76 | 18.34             | 27.00       | Pass   |
| CH58        | 5290            | 14.52                  | 14.00 | 17.28             | 21.00       | Pass   |
| CH106       | 5530            | 13.45                  | 14.22 | 16.86             | 21.00       | Pass   |
| CH138       | 5690            | 13.28                  | 14.23 | 16.79             | 21.00       | Pass   |
| CH155       | 5775            | 18.22                  | 16.90 | 20.62             | 27.00       | Pass   |



| Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|----------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                          | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                      |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH42                                                                 | 5210            | 11.95                  | 11.73 | 11.20 | 11.21 | 17.56             | 24.00       | Pass   |
| CH58                                                                 | 5290            | 8.30                   | 8.26  | 8.32  | 8.91  | 14.48             | 18.00       | Pass   |
| CH106                                                                | 5530            | 8.99                   | 8.55  | 9.16  | 8.77  | 14.89             | 18.00       | Pass   |
| CH138                                                                | 5690            | 8.78                   | 8.78  | 9.02  | 8.78  | 14.86             | 18.00       | Pass   |
| CH155                                                                | 5775            | 14.64                  | 14.39 | 14.59 | 14.24 | 20.49             | 24.00       | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|---------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                             | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                         |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                    | 5180            | 18.16                  | 17.86 | 21.02             | 30.00       | Pass   |
| CH44                                                    | 5220            | 18.11                  | 17.95 | 21.04             | 30.00       | Pass   |
| CH48                                                    | 5240            | 18.56                  | 17.56 | 21.10             | 30.00       | Pass   |
| CH52                                                    | 5260            | 16.58                  | 16.84 | 19.72             | 24.00       | Pass   |
| CH60                                                    | 5300            | 16.21                  | 16.94 | 19.60             | 24.00       | Pass   |
| CH64                                                    | 5320            | 17.23                  | 16.50 | 19.89             | 24.00       | Pass   |
| CH100                                                   | 5500            | 17.18                  | 16.96 | 20.08             | 24.00       | Pass   |
| CH116                                                   | 5580            | 16.85                  | 16.91 | 19.89             | 24.00       | Pass   |
| CH140                                                   | 5700            | 17.34                  | 17.42 | 20.39             | 24.00       | Pass   |
| CH144                                                   | 5720            | 16.99                  | 17.43 | 20.23             | 24.00       | Pass   |
| CH149                                                   | 5745            | 20.65                  | 20.39 | 23.53             | 30.00       | Pass   |
| CH157                                                   | 5785            | 20.74                  | 20.54 | 23.65             | 30.00       | Pass   |
| CH165                                                   | 5825            | 20.37                  | 20.44 | 23.42             | 30.00       | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|-------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                        | 5180            | 14.22                  | 14.02 | 14.89 | 14.00 | 20.32             | 30.00       | Pass   |
| CH44                                                        | 5220            | 14.25                  | 13.88 | 14.44 | 14.05 | 20.18             | 30.00       | Pass   |
| CH48                                                        | 5240            | 13.88                  | 14.21 | 14.31 | 15.11 | 20.42             | 30.00       | Pass   |
| CH52                                                        | 5260            | 12.49                  | 13.21 | 14.23 | 13.89 | 19.53             | 24.00       | Pass   |
| CH60                                                        | 5300            | 12.73                  | 12.63 | 13.89 | 13.77 | 19.31             | 24.00       | Pass   |
| CH64                                                        | 5320            | 12.79                  | 13.04 | 14.23 | 13.79 | 19.52             | 24.00       | Pass   |
| CH100                                                       | 5500            | 13.03                  | 13.19 | 14.32 | 13.77 | 19.63             | 24.00       | Pass   |
| CH116                                                       | 5580            | 11.80                  | 11.78 | 13.23 | 13.54 | 18.68             | 24.00       | Pass   |
| CH140                                                       | 5700            | 11.90                  | 11.87 | 13.78 | 13.49 | 18.87             | 24.00       | Pass   |
| CH144                                                       | 5720            | 12.24                  | 12.11 | 13.66 | 13.13 | 18.85             | 24.00       | Pass   |
| CH149                                                       | 5745            | 18.36                  | 17.98 | 18.18 | 18.41 | 24.26             | 30.00       | Pass   |
| CH157                                                       | 5785            | 17.64                  | 17.21 | 17.46 | 17.03 | 23.36             | 30.00       | Pass   |
| CH165                                                       | 5825            | 16.75                  | 16.58 | 17.26 | 16.64 | 22.84             | 30.00       | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|------------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                      | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                  |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                             | 5180            | 16.78                  | 16.12 | 19.47             | 27.00       | Pass   |
| CH44                                                             | 5220            | 17.79                  | 16.47 | 20.19             | 27.00       | Pass   |
| CH48                                                             | 5240            | 17.15                  | 16.70 | 19.94             | 27.00       | Pass   |
| CH52                                                             | 5260            | 14.27                  | 13.86 | 17.08             | 21.00       | Pass   |
| CH60                                                             | 5300            | 14.06                  | 14.13 | 17.11             | 21.00       | Pass   |
| CH64                                                             | 5320            | 13.88                  | 13.93 | 16.92             | 21.00       | Pass   |
| CH100                                                            | 5500            | 13.46                  | 14.11 | 16.81             | 21.00       | Pass   |
| CH116                                                            | 5580            | 14.41                  | 13.82 | 17.14             | 21.00       | Pass   |
| CH140                                                            | 5700            | 13.45                  | 14.53 | 17.03             | 21.00       | Pass   |
| CH144                                                            | 5720            | 14.07                  | 14.42 | 17.46             | 21.00       | Pass   |
| CH149                                                            | 5745            | 19.61                  | 19.71 | 22.67             | 27.00       | Pass   |
| CH157                                                            | 5785            | 19.53                  | 19.27 | 22.41             | 27.00       | Pass   |
| CH165                                                            | 5825            | 19.07                  | 19.90 | 22.52             | 27.00       | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|----------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                          | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                      |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                                 | 5180            | 14.50                  | 14.70 | 14.49 | 14.12 | 20.48             | 24.00       | Pass   |
| CH44                                                                 | 5220            | 14.67                  | 14.22 | 14.49 | 14.56 | 20.51             | 24.00       | Pass   |
| CH48                                                                 | 5240            | 13.87                  | 13.69 | 14.42 | 14.57 | 20.17             | 24.00       | Pass   |
| CH52                                                                 | 5260            | 6.53                   | 6.62  | 7.71  | 7.43  | 13.12             | 18.00       | Pass   |
| CH60                                                                 | 5300            | 6.49                   | 7.04  | 7.80  | 7.65  | 13.30             | 18.00       | Pass   |
| CH64                                                                 | 5320            | 6.71                   | 6.63  | 7.23  | 7.48  | 13.05             | 18.00       | Pass   |
| CH100                                                                | 5500            | 7.31                   | 6.79  | 6.67  | 7.65  | 13.14             | 18.00       | Pass   |
| CH116                                                                | 5580            | 7.38                   | 7.20  | 7.99  | 8.24  | 13.74             | 18.00       | Pass   |
| CH140                                                                | 5700            | 7.14                   | 7.32  | 8.27  | 8.10  | 14.76             | 18.00       | Pass   |
| CH144                                                                | 5720            | 7.22                   | 7.18  | 7.67  | 7.79  | 14.49             | 18.00       | Pass   |
| CH149                                                                | 5745            | 17.77                  | 17.87 | 17.99 | 18.02 | 23.93             | 24.00       | Pass   |
| CH157                                                                | 5785            | 17.67                  | 17.39 | 17.63 | 17.22 | 23.50             | 24.00       | Pass   |
| CH165                                                                | 5825            | 17.16                  | 16.67 | 17.46 | 17.08 | 23.12             | 24.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|---------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                             | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                         |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                                    | 5190            | 16.30                  | 16.30 | 19.31             | 30.00       | Pass   |
| CH46                                                    | 5230            | 16.97                  | 16.76 | 19.88             | 30.00       | Pass   |
| CH54                                                    | 5270            | 15.41                  | 15.45 | 18.44             | 24.00       | Pass   |
| CH62                                                    | 5310            | 16.01                  | 15.88 | 18.96             | 24.00       | Pass   |
| CH102                                                   | 5510            | 17.15                  | 17.47 | 20.32             | 24.00       | Pass   |
| CH110                                                   | 5550            | 16.50                  | 16.53 | 19.53             | 24.00       | Pass   |
| CH134                                                   | 5670            | 17.18                  | 17.17 | 20.19             | 24.00       | Pass   |
| CH142                                                   | 5710            | 17.50                  | 17.44 | 20.48             | 24.00       | Pass   |
| CH151                                                   | 5755            | 20.75                  | 19.97 | 23.39             | 30.00       | Pass   |
| CH159                                                   | 5795            | 20.03                  | 19.74 | 22.90             | 30.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|-------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38                                                        | 5190            | 12.34                  | 11.50 | 12.54 | 12.35 | 18.22             | 30.00       | Pass   |
| CH46                                                        | 5230            | 11.73                  | 11.56 | 11.87 | 12.42 | 17.93             | 30.00       | Pass   |
| CH54                                                        | 5270            | 12.60                  | 11.59 | 12.02 | 12.03 | 18.10             | 24.00       | Pass   |
| CH62                                                        | 5310            | 12.11                  | 11.35 | 11.99 | 12.07 | 17.91             | 24.00       | Pass   |
| CH102                                                       | 5510            | 13.72                  | 13.05 | 12.86 | 11.11 | 18.81             | 24.00       | Pass   |
| CH110                                                       | 5550            | 13.27                  | 13.45 | 13.21 | 11.51 | 18.95             | 24.00       | Pass   |
| CH134                                                       | 5670            | 13.78                  | 13.12 | 13.56 | 13.01 | 19.40             | 24.00       | Pass   |
| CH142                                                       | 5710            | 13.45                  | 12.74 | 12.99 | 12.74 | 19.01             | 24.00       | Pass   |
| CH151                                                       | 5755            | 17.87                  | 18.10 | 19.14 | 18.12 | 24.36             | 30.00       | Pass   |
| CH159                                                       | 5795            | 18.38                  | 18.57 | 19.59 | 18.23 | 24.75             | 30.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|------------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                      | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                  |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                                             | 5190            | 15.77                  | 15.20 | 18.50             | 27.00       | Pass   |
| CH46                                                             | 5230            | 15.55                  | 15.31 | 18.44             | 27.00       | Pass   |
| CH54                                                             | 5270            | 14.77                  | 14.91 | 17.85             | 21.00       | Pass   |
| CH62                                                             | 5310            | 14.84                  | 14.90 | 17.88             | 21.00       | Pass   |
| CH102                                                            | 5510            | 14.44                  | 14.35 | 17.41             | 21.00       | Pass   |
| CH110                                                            | 5550            | 13.61                  | 13.98 | 16.81             | 21.00       | Pass   |
| CH134                                                            | 5670            | 14.96                  | 14.63 | 17.81             | 21.00       | Pass   |
| CH142                                                            | 5710            | 14.16                  | 14.69 | 17.44             | 21.00       | Pass   |
| CH151                                                            | 5755            | 19.56                  | 18.31 | 21.99             | 27.00       | Pass   |
| CH159                                                            | 5795            | 19.53                  | 18.49 | 22.05             | 27.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|----------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                          | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                      |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38                                                                 | 5190            | 11.19                  | 10.85 | 11.88 | 11.26 | 17.33             | 24.00       | Pass   |
| CH46                                                                 | 5230            | 11.13                  | 10.35 | 11.24 | 11.73 | 17.16             | 24.00       | Pass   |
| CH54                                                                 | 5270            | 7.88                   | 7.63  | 7.69  | 7.77  | 13.76             | 18.00       | Pass   |
| CH62                                                                 | 5310            | 8.05                   | 7.79  | 8.00  | 7.93  | 13.96             | 18.00       | Pass   |
| CH102                                                                | 5510            | 8.03                   | 8.32  | 8.33  | 8.20  | 14.24             | 18.00       | Pass   |
| CH110                                                                | 5550            | 8.63                   | 7.91  | 8.69  | 7.80  | 14.30             | 18.00       | Pass   |
| CH134                                                                | 5670            | 8.70                   | 8.42  | 8.27  | 8.26  | 14.44             | 18.00       | Pass   |
| CH142                                                                | 5710            | 8.34                   | 8.19  | 8.16  | 8.22  | 14.25             | 18.00       | Pass   |
| CH151                                                                | 5755            | 18.10                  | 17.42 | 18.07 | 17.52 | 23.81             | 24.00       | Pass   |
| CH159                                                                | 5795            | 18.03                  | 18.11 | 17.62 | 18.02 | 23.97             | 24.00       | Pass   |

| Mode 9: Transmit by 802.11ax(80MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|---------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                             | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                         |                 | Ant1                   | Ant2  |                   |             |        |
| CH42                                                    | 5210            | 17.01                  | 16.92 | 19.98             | 30.00       | Pass   |
| CH58                                                    | 5290            | 15.35                  | 15.13 | 18.25             | 24.00       | Pass   |
| CH106                                                   | 5530            | 14.56                  | 15.12 | 17.86             | 24.00       | Pass   |
| CH138                                                   | 5690            | 15.21                  | 15.19 | 18.21             | 24.00       | Pass   |
| CH155                                                   | 5775            | 18.73                  | 18.40 | 21.58             | 30.00       | Pass   |

| Mode 9: Transmit by 802.11ax(80MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|-------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH42                                                        | 5210            | 11.07                  | 11.10 | 11.80 | 11.47 | 17.39             | 30.00       | Pass   |
| CH58                                                        | 5290            | 11.21                  | 10.86 | 11.03 | 11.20 | 17.10             | 24.00       | Pass   |
| CH106                                                       | 5530            | 12.29                  | 10.77 | 11.43 | 10.02 | 17.23             | 24.00       | Pass   |
| CH138                                                       | 5690            | 11.87                  | 11.04 | 11.23 | 10.34 | 17.17             | 24.00       | Pass   |
| CH155                                                       | 5775            | 14.55                  | 13.96 | 13.61 | 13.68 | 19.99             | 30.00       | Pass   |

**Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH42        | 5210            | 15.19                  | 16.04 | 18.65             | 27.00       | Pass   |
| CH58        | 5290            | 14.18                  | 14.72 | 17.47             | 21.00       | Pass   |
| CH106       | 5530            | 13.36                  | 13.53 | 16.46             | 21.00       | Pass   |
| CH138       | 5690            | 13.77                  | 13.92 | 16.86             | 21.00       | Pass   |
| CH155       | 5775            | 18.12                  | 17.36 | 20.77             | 27.00       | Pass   |

**Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH42        | 5210            | 10.74                  | 10.74 | 11.15 | 10.69 | 16.85             | 24.00       | Pass   |
| CH58        | 5290            | 8.02                   | 7.88  | 7.98  | 7.70  | 13.92             | 18.00       | Pass   |
| CH106       | 5530            | 8.56                   | 7.75  | 8.21  | 8.68  | 14.34             | 18.00       | Pass   |
| CH138       | 5690            | 8.43                   | 8.03  | 8.24  | 8.54  | 14.33             | 18.00       | Pass   |
| CH155       | 5775            | 14.70                  | 14.36 | 14.65 | 13.97 | 20.45             | 24.00       | Pass   |

| Mode 10: Transmit by 802.11ax(160MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|-----------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                               | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                           |                 | Ant1                   | Ant2  |                   |             |        |
| CH50                                                      | 5250            | 15.28                  | 14.84 | 18.08             | 24.00       | Pass   |
| CH144                                                     | 5570            | 14.84                  | 15.45 | 18.17             | 24.00       | Pass   |

| Mode 10: Transmit by 802.11ax(160MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|---------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                   | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                               |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH50                                                          | 5250            | 11.56                  | 11.34 | 11.23 | 10.30 | 17.15             | 24.00       | Pass   |
| CH144                                                         | 5570            | 10.22                  | 10.19 | 10.62 | 10.15 | 16.32             | 24.00       | Pass   |

**Mode 10: Transmit by 802.11ax(160MHz) with Beam-forming by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH50        | 5250            | 13.91                  | 14.00 | 16.97             | 21.00       | Pass   |
| CH144       | 5570            | 13.99                  | 14.05 | 17.03             | 21.00       | Pass   |

**Mode 10: Transmit by 802.11ax(160MHz) with Beam-forming by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |      |      |      | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|------|------|------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2 | Ant3 | Ant4 |                   |             |        |
| CH50        | 5250            | 8.89                   | 8.67 | 8.69 | 8.54 | 14.72             | 18.00       | Pass   |
| CH144       | 5570            | 8.48                   | 8.37 | 8.39 | 8.21 | 14.38             | 18.00       | Pass   |



Eth7:

| Mode 1: Transmit by 802.11a with CDD by Ant 1+2 |                    |                        |       |                      |                |        |
|-------------------------------------------------|--------------------|------------------------|-------|----------------------|----------------|--------|
| Channel No.                                     | Frequency<br>(MHz) | Measurement Power(dBm) |       | Total Power<br>(dBm) | Limit<br>(dBm) | Result |
|                                                 |                    | Ant1                   | Ant2  |                      |                |        |
| CH36                                            | 5180               | 18.13                  | 17.92 | 21.04                | 30.00          | Pass   |
| CH44                                            | 5220               | 17.64                  | 17.47 | 20.57                | 30.00          | Pass   |
| CH48                                            | 5240               | 17.78                  | 18.17 | 20.99                | 30.00          | Pass   |
| CH52                                            | 5260               | 17.49                  | 17.37 | 20.44                | 24.00          | Pass   |
| CH60                                            | 5300               | 17.74                  | 17.89 | 20.83                | 24.00          | Pass   |
| CH64                                            | 5320               | 17.90                  | 17.47 | 20.70                | 24.00          | Pass   |

| Mode 1: Transmit by 802.11a with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|-----------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                         | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                     |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                | 5180            | 15.51                  | 14.94 | 14.69 | 15.00 | 21.07             | 30.00       | Pass   |
| CH44                                                | 5220            | 15.19                  | 14.43 | 15.10 | 14.78 | 20.91             | 30.00       | Pass   |
| CH48                                                | 5240            | 14.88                  | 15.00 | 14.80 | 14.87 | 20.91             | 30.00       | Pass   |
| CH52                                                | 5260            | 12.78                  | 12.82 | 13.69 | 13.40 | 19.21             | 24.00       | Pass   |
| CH60                                                | 5300            | 12.36                  | 12.71 | 13.19 | 13.31 | 18.93             | 24.00       | Pass   |
| CH64                                                | 5320            | 11.99                  | 12.02 | 13.15 | 13.22 | 18.66             | 24.00       | Pass   |

| Mode 1: Transmit by 802.11a with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|----------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                              | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                          |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                     | 5180            | 17.20                  | 17.17 | 20.19             | 27.00       | Pass   |
| CH44                                                     | 5220            | 17.23                  | 16.96 | 20.11             | 27.00       | Pass   |
| CH48                                                     | 5240            | 16.91                  | 16.91 | 19.92             | 27.00       | Pass   |
| CH52                                                     | 5260            | 13.38                  | 13.26 | 16.33             | 21.00       | Pass   |
| CH60                                                     | 5300            | 13.91                  | 13.78 | 16.86             | 21.00       | Pass   |
| CH64                                                     | 5320            | 14.59                  | 13.47 | 17.08             | 21.00       | Pass   |

**Mode 1: Transmit by 802.11a with Beam-forming by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36        | 5180            | 15.00                  | 14.47 | 15.02 | 14.28 | 20.73             | 24.00       | Pass   |
| CH44        | 5220            | 14.54                  | 14.29 | 14.63 | 14.82 | 20.59             | 24.00       | Pass   |
| CH48        | 5240            | 14.80                  | 15.09 | 15.17 | 14.43 | 20.90             | 24.00       | Pass   |
| CH52        | 5260            | 7.41                   | 7.60  | 8.27  | 7.98  | 13.85             | 18.00       | Pass   |
| CH60        | 5300            | 7.46                   | 7.85  | 8.01  | 7.73  | 13.79             | 18.00       | Pass   |
| CH64        | 5320            | 7.95                   | 6.74  | 8.11  | 8.10  | 13.78             | 18.00       | Pass   |

**Mode 2: Transmit by 802.11n(20MHz) with CDD by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH36        | 5180            | 18.19                  | 17.66 | 20.94             | 30.00       | Pass   |
| CH44        | 5220            | 18.42                  | 17.86 | 21.16             | 30.00       | Pass   |
| CH48        | 5240            | 17.90                  | 18.02 | 20.97             | 30.00       | Pass   |
| CH52        | 5260            | 17.49                  | 17.47 | 20.49             | 24.00       | Pass   |
| CH60        | 5300            | 17.86                  | 17.69 | 20.79             | 24.00       | Pass   |
| CH64        | 5320            | 17.51                  | 18.02 | 20.78             | 24.00       | Pass   |

| Mode 2: Transmit by 802.11n(20MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                            |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                       | 5180            | 14.78                  | 13.93 | 14.35 | 14.08 | 20.32             | 30.00       | Pass   |
| CH44                                                       | 5220            | 15.06                  | 14.15 | 14.53 | 14.62 | 20.62             | 30.00       | Pass   |
| CH48                                                       | 5240            | 14.88                  | 14.11 | 14.82 | 14.43 | 20.59             | 30.00       | Pass   |
| CH52                                                       | 5260            | 12.71                  | 12.38 | 14.24 | 13.91 | 19.40             | 24.00       | Pass   |
| CH60                                                       | 5300            | 11.96                  | 12.33 | 14.38 | 13.76 | 19.24             | 24.00       | Pass   |
| CH64                                                       | 5320            | 11.82                  | 12.41 | 14.59 | 13.63 | 19.27             | 24.00       | Pass   |

| Mode 2: Transmit by 802.11n(20MHz) with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|-----------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                     | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                 |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                            | 5180            | 17.09                  | 16.72 | 19.92             | 27.00       | Pass   |
| CH44                                                            | 5220            | 17.81                  | 17.19 | 20.53             | 27.00       | Pass   |
| CH48                                                            | 5240            | 17.24                  | 16.84 | 20.05             | 27.00       | Pass   |
| CH52                                                            | 5260            | 14.34                  | 13.64 | 17.02             | 21.00       | Pass   |
| CH60                                                            | 5300            | 13.60                  | 13.46 | 16.54             | 21.00       | Pass   |
| CH64                                                            | 5320            | 14.50                  | 14.03 | 17.28             | 21.00       | Pass   |

**Mode 2: Transmit by 802.11n(20MHz) with Beam-forming by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36        | 5180            | 14.87                  | 14.22 | 14.76 | 14.87 | 14.87             | 24.00       | Pass   |
| CH44        | 5220            | 14.78                  | 14.61 | 15.11 | 15.10 | 14.78             | 24.00       | Pass   |
| CH48        | 5240            | 14.44                  | 14.69 | 15.21 | 14.96 | 14.44             | 24.00       | Pass   |
| CH52        | 5260            | 7.51                   | 7.87  | 8.17  | 8.16  | 13.96             | 18.00       | Pass   |
| CH60        | 5300            | 7.39                   | 7.95  | 7.54  | 7.54  | 13.63             | 18.00       | Pass   |
| CH64        | 5320            | 7.69                   | 7.40  | 7.96  | 8.13  | 13.82             | 18.00       | Pass   |

**Mode 3: Transmit by 802.11n(40MHz) with CDD by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH38        | 5190            | 16.70                  | 16.81 | 19.77             | 30.00       | Pass   |
| CH46        | 5230            | 16.35                  | 17.07 | 19.74             | 30.00       | Pass   |
| CH54        | 5270            | 15.76                  | 15.45 | 18.62             | 24.00       | Pass   |
| CH62        | 5310            | 15.78                  | 15.07 | 18.45             | 24.00       | Pass   |

| Mode 3: Transmit by 802.11n(40MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                            |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38                                                       | 5190            | 12.67                  | 11.30 | 12.65 | 11.82 | 18.17             | 30.00       | Pass   |
| CH46                                                       | 5230            | 12.53                  | 11.72 | 12.13 | 11.68 | 18.05             | 30.00       | Pass   |
| CH54                                                       | 5270            | 12.13                  | 11.80 | 11.92 | 11.90 | 17.96             | 24.00       | Pass   |
| CH62                                                       | 5310            | 12.05                  | 10.85 | 11.62 | 12.18 | 17.73             | 24.00       | Pass   |

| Mode 3: Transmit by 802.11n(40MHz) with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|-----------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                     | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                 |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                                            | 5190            | 15.73                  | 15.78 | 18.77             | 27.00       | Pass   |
| CH46                                                            | 5230            | 15.52                  | 15.16 | 18.35             | 27.00       | Pass   |
| CH54                                                            | 5270            | 14.81                  | 14.71 | 17.77             | 21.00       | Pass   |
| CH62                                                            | 5310            | 14.70                  | 14.38 | 17.55             | 21.00       | Pass   |

| Mode 3: Transmit by 802.11n(40MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|---------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                         | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                     |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38                                                                | 5190            | 11.98                  | 10.98 | 12.17 | 11.75 | 17.76             | 24.00       | Pass   |
| CH46                                                                | 5230            | 11.95                  | 11.15 | 12.38 | 11.95 | 17.90             | 24.00       | Pass   |
| CH54                                                                | 5270            | 9.01                   | 8.68  | 8.51  | 9.06  | 14.84             | 18.00       | Pass   |
| CH62                                                                | 5310            | 8.94                   | 8.41  | 8.18  | 8.50  | 14.54             | 18.00       | Pass   |

| Mode 4: Transmit by 802.11ac(20MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|---------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                             | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                         |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                    | 5180            | 18.37                  | 18.18 | 21.29             | 30.00       | Pass   |
| CH44                                                    | 5220            | 17.76                  | 18.02 | 20.90             | 30.00       | Pass   |
| CH48                                                    | 5240            | 18.24                  | 18.21 | 21.24             | 30.00       | Pass   |
| CH52                                                    | 5260            | 17.77                  | 17.79 | 20.79             | 24.00       | Pass   |
| CH60                                                    | 5300            | 18.04                  | 17.58 | 20.83             | 24.00       | Pass   |
| CH64                                                    | 5320            | 18.12                  | 17.83 | 20.99             | 24.00       | Pass   |

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36        | 5180            | 14.81                  | 14.07 | 14.60 | 14.33 | 20.48             | 30.00       | Pass   |
| CH44        | 5220            | 14.10                  | 13.88 | 14.55 | 14.50 | 20.29             | 30.00       | Pass   |
| CH48        | 5240            | 14.54                  | 13.77 | 14.50 | 14.48 | 20.35             | 30.00       | Pass   |
| CH52        | 5260            | 12.05                  | 12.70 | 14.33 | 13.61 | 19.28             | 24.00       | Pass   |
| CH60        | 5300            | 11.96                  | 12.70 | 13.84 | 13.48 | 19.08             | 24.00       | Pass   |
| CH64        | 5320            | 11.72                  | 12.42 | 14.09 | 13.10 | 18.94             | 24.00       | Pass   |

**Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH36        | 5180            | 16.70                  | 16.64 | 19.68             | 27.00       | Pass   |
| CH44        | 5220            | 17.28                  | 17.43 | 20.37             | 27.00       | Pass   |
| CH48        | 5240            | 17.46                  | 17.22 | 20.35             | 27.00       | Pass   |
| CH52        | 5260            | 13.50                  | 13.50 | 16.51             | 21.00       | Pass   |
| CH60        | 5300            | 13.61                  | 13.48 | 16.56             | 21.00       | Pass   |
| CH64        | 5320            | 13.88                  | 14.01 | 16.96             | 21.00       | Pass   |



| Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|----------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                          | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                      |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                                 | 5180            | 15.22                  | 13.93 | 14.72 | 14.27 | 20.58             | 24.00       | Pass   |
| CH44                                                                 | 5220            | 14.61                  | 13.87 | 14.64 | 14.64 | 20.47             | 24.00       | Pass   |
| CH48                                                                 | 5240            | 14.30                  | 14.44 | 14.25 | 15.06 | 20.55             | 24.00       | Pass   |
| CH52                                                                 | 5260            | 8.38                   | 7.70  | 8.00  | 8.14  | 14.08             | 18.00       | Pass   |
| CH60                                                                 | 5300            | 7.50                   | 7.19  | 7.86  | 7.44  | 13.52             | 18.00       | Pass   |
| CH64                                                                 | 5320            | 7.63                   | 7.80  | 7.89  | 8.55  | 14.00             | 18.00       | Pass   |

| Mode 5: Transmit by 802.11ac(40MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|---------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                             | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                         |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                                    | 5190            | 16.49                  | 16.14 | 19.33             | 30.00       | Pass   |
| CH46                                                    | 5230            | 17.14                  | 16.87 | 20.02             | 30.00       | Pass   |
| CH54                                                    | 5270            | 16.03                  | 15.13 | 18.61             | 24.00       | Pass   |
| CH62                                                    | 5310            | 15.71                  | 15.53 | 18.63             | 24.00       | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38        | 5190            | 12.53                  | 11.39 | 12.33 | 11.97 | 18.10             | 30.00       | Pass   |
| CH46        | 5230            | 12.11                  | 11.47 | 12.76 | 12.05 | 18.14             | 30.00       | Pass   |
| CH54        | 5270            | 12.01                  | 11.56 | 12.32 | 12.48 | 18.13             | 24.00       | Pass   |
| CH62        | 5310            | 12.20                  | 11.82 | 12.04 | 12.64 | 18.21             | 24.00       | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH38        | 5190            | 15.51                  | 14.98 | 18.26             | 27.00       | Pass   |
| CH46        | 5230            | 15.56                  | 15.30 | 18.44             | 27.00       | Pass   |
| CH54        | 5270            | 14.18                  | 14.62 | 17.42             | 21.00       | Pass   |
| CH62        | 5310            | 14.87                  | 14.44 | 17.67             | 21.00       | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38        | 5190            | 12.62                  | 11.40 | 12.08 | 12.43 | 18.18             | 24.00       | Pass   |
| CH46        | 5230            | 12.35                  | 11.43 | 12.82 | 11.94 | 18.19             | 24.00       | Pass   |
| CH54        | 5270            | 8.73                   | 8.35  | 8.05  | 8.75  | 14.50             | 18.00       | Pass   |
| CH62        | 5310            | 9.05                   | 8.41  | 8.25  | 8.87  | 14.68             | 18.00       | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH42        | 5210            | 16.00                  | 16.06 | 19.04             | 30.00       | Pass   |
| CH58        | 5290            | 15.35                  | 15.34 | 18.36             | 24.00       | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH42        | 5210            | 11.19                  | 11.21 | 11.57 | 10.16 | 17.08             | 30.00       | Pass   |
| CH58        | 5290            | 11.59                  | 10.61 | 11.21 | 11.79 | 17.34             | 24.00       | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH42        | 5210            | 15.69                  | 14.61 | 18.19             | 27.00       | Pass   |
| CH58        | 5290            | 14.30                  | 13.86 | 17.10             | 21.00       | Pass   |

| <b>Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming by Ant 1+2+3+4</b> |                 |                        |       |       |       |                   |             |        |
|-----------------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                                 | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH42                                                                        | 5210            | 11.86                  | 11.60 | 11.11 | 10.98 | 17.42             | 24.00       | Pass   |
| CH58                                                                        | 5290            | 8.07                   | 8.12  | 8.09  | 8.70  | 14.27             | 18.00       | Pass   |

| <b>Mode 7: Transmit by 802.11ax(20MHz) with CDD by Ant 1+2</b> |                 |                        |       |                   |             |        |
|----------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                    | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                           | 5180            | 17.90                  | 17.60 | 20.76             | 30.00       | Pass   |
| CH44                                                           | 5220            | 17.92                  | 17.76 | 20.85             | 30.00       | Pass   |
| CH48                                                           | 5240            | 18.38                  | 17.38 | 20.92             | 30.00       | Pass   |
| CH52                                                           | 5260            | 17.43                  | 17.70 | 20.58             | 24.00       | Pass   |
| CH60                                                           | 5300            | 16.98                  | 17.79 | 20.41             | 24.00       | Pass   |
| CH64                                                           | 5320            | 18.01                  | 17.39 | 20.72             | 24.00       | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|-------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                        | 5180            | 14.08                  | 13.78 | 14.75 | 13.76 | 20.13             | 30.00       | Pass   |
| CH44                                                        | 5220            | 14.03                  | 13.74 | 14.20 | 13.83 | 19.97             | 30.00       | Pass   |
| CH48                                                        | 5240            | 13.69                  | 13.99 | 14.09 | 14.92 | 20.22             | 30.00       | Pass   |
| CH52                                                        | 5260            | 12.30                  | 13.02 | 14.04 | 13.74 | 19.35             | 24.00       | Pass   |
| CH60                                                        | 5300            | 12.58                  | 12.48 | 13.67 | 13.55 | 19.12             | 24.00       | Pass   |
| CH64                                                        | 5320            | 12.62                  | 12.87 | 14.04 | 13.60 | 19.34             | 24.00       | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|------------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                      | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                  |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                                             | 5180            | 16.55                  | 15.97 | 19.28             | 27.00       | Pass   |
| CH44                                                             | 5220            | 17.61                  | 16.25 | 19.99             | 27.00       | Pass   |
| CH48                                                             | 5240            | 16.96                  | 16.55 | 19.77             | 27.00       | Pass   |
| CH52                                                             | 5260            | 14.05                  | 13.72 | 16.90             | 21.00       | Pass   |
| CH60                                                             | 5300            | 13.91                  | 13.91 | 16.92             | 21.00       | Pass   |
| CH64                                                             | 5320            | 13.74                  | 13.70 | 16.73             | 21.00       | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|----------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                          | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                      |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH36                                                                 | 5180            | 14.29                  | 14.55 | 14.34 | 13.93 | 20.30             | 24.00       | Pass   |
| CH44                                                                 | 5220            | 14.52                  | 14.05 | 14.32 | 14.34 | 20.33             | 24.00       | Pass   |
| CH48                                                                 | 5240            | 13.70                  | 13.60 | 14.33 | 14.34 | 20.03             | 24.00       | Pass   |
| CH52                                                                 | 5260            | 7.44                   | 7.39  | 8.48  | 8.30  | 13.95             | 18.00       | Pass   |
| CH60                                                                 | 5300            | 7.26                   | 7.35  | 8.47  | 8.51  | 13.96             | 18.00       | Pass   |
| CH64                                                                 | 5320            | 7.50                   | 7.48  | 8.08  | 8.31  | 13.88             | 18.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|---------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                             | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                         |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                                    | 5190            | 16.11                  | 16.07 | 19.10             | 30.00       | Pass   |
| CH46                                                    | 5230            | 16.83                  | 16.51 | 19.68             | 30.00       | Pass   |
| CH54                                                    | 5270            | 15.26                  | 15.19 | 18.24             | 24.00       | Pass   |
| CH62                                                    | 5310            | 15.90                  | 15.73 | 18.83             | 24.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|-------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38                                                        | 5190            | 12.20                  | 11.36 | 12.39 | 12.16 | 18.07             | 30.00       | Pass   |
| CH46                                                        | 5230            | 11.49                  | 11.34 | 11.70 | 12.27 | 17.74             | 30.00       | Pass   |
| CH54                                                        | 5270            | 12.38                  | 11.40 | 11.88 | 11.86 | 17.91             | 24.00       | Pass   |
| CH62                                                        | 5310            | 11.92                  | 11.16 | 11.82 | 11.92 | 17.74             | 24.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|------------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                      | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                  |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                                             | 5190            | 15.61                  | 15.02 | 18.34             | 27.00       | Pass   |
| CH46                                                             | 5230            | 15.38                  | 15.12 | 18.26             | 27.00       | Pass   |
| CH54                                                             | 5270            | 14.55                  | 14.69 | 17.63             | 21.00       | Pass   |
| CH62                                                             | 5310            | 14.61                  | 14.75 | 17.69             | 21.00       | Pass   |



| Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|----------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                          | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                      |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH38                                                                 | 5190            | 12.04                  | 11.68 | 12.71 | 12.08 | 18.16             | 24.00       | Pass   |
| CH46                                                                 | 5230            | 11.96                  | 11.17 | 12.06 | 12.60 | 18.00             | 24.00       | Pass   |
| CH54                                                                 | 5270            | 8.70                   | 8.50  | 8.56  | 8.63  | 14.62             | 18.00       | Pass   |
| CH62                                                                 | 5310            | 8.92                   | 8.65  | 8.86  | 8.75  | 14.82             | 18.00       | Pass   |

| Mode 9: Transmit by 802.11ax(80MHz) with CDD by Ant 1+2 |                 |                        |       |                   |             |        |
|---------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                             | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                         |                 | Ant1                   | Ant2  |                   |             |        |
| CH42                                                    | 5210            | 16.78                  | 16.81 | 19.81             | 30.00       | Pass   |
| CH58                                                    | 5290            | 15.10                  | 14.90 | 18.01             | 24.00       | Pass   |

| Mode 9: Transmit by 802.11ax(80MHz) with CDD by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|-------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH42                                                        | 5210            | 10.92                  | 10.95 | 11.66 | 11.30 | 17.24             | 30.00       | Pass   |
| CH58                                                        | 5290            | 11.04                  | 10.69 | 10.79 | 11.06 | 16.92             | 24.00       | Pass   |

| Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming by Ant 1+2 |                 |                        |       |                   |             |        |
|------------------------------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                                      | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                  |                 | Ant1                   | Ant2  |                   |             |        |
| CH42                                                             | 5210            | 15.01                  | 15.90 | 18.49             | 27.00       | Pass   |
| CH58                                                             | 5290            | 13.99                  | 14.56 | 17.29             | 21.00       | Pass   |

| Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming by Ant 1+2+3+4 |                 |                        |       |       |       |                   |             |        |
|----------------------------------------------------------------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
| Channel No.                                                          | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|                                                                      |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH42                                                                 | 5210            | 10.60                  | 10.59 | 11.00 | 10.50 | 16.70             | 24.00       | Pass   |
| CH58                                                                 | 5290            | 7.87                   | 7.71  | 7.81  | 7.48  | 13.74             | 18.00       | Pass   |

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH50        | 5250            | 15.13                  | 14.59 | 17.88             | 24.00       | Pass   |

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       |       |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  | Ant3  | Ant4  |                   |             |        |
| CH50        | 5250            | 11.42                  | 11.10 | 11.09 | 10.06 | 16.97             | 24.00       | Pass   |

**Mode 10: Transmit by 802.11ax(160MHz) with Beam-forming by Ant 1+2**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH50        | 5250            | 13.69                  | 13.83 | 16.77             | 21.00       | Pass   |

**Mode 10: Transmit by 802.11ax(160MHz) with Beam-forming by Ant 1+2+3+4**

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |      |      |      | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|------|------|------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2 | Ant3 | Ant4 |                   |             |        |
| CH50        | 5250            | 8.72                   | 9.39 | 8.63 | 9.08 | 14.99             | 18.00       | Pass   |

Note: 1: Measurement Power of 802.11ac/ax(80/160MHz)=Reading value+duty cycle factor

2: The lowest 26dB bandwidth was used for calculate the power limit according to the format  $(11+10*\log B)$ . The level is 24.1dBm which is higher than 24dBm, so 24dbm was used for power limit.

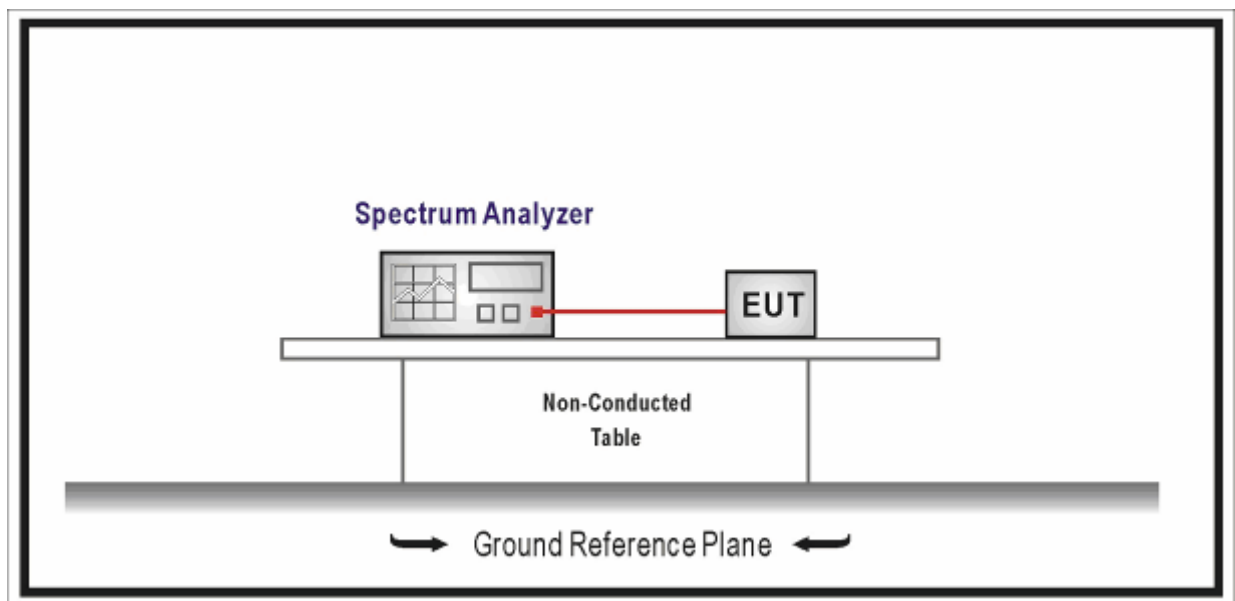
## 8. Peak Power Spectral Density

### 8.1. Test Equipment

| Peak Power Spectral Density / TR-8 |              |          |            |            |               |
|------------------------------------|--------------|----------|------------|------------|---------------|
| Instrument                         | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer                  | Agilent      | N9010A   | MY48030494 | 2018.02.04 | 2019.02.03    |
| EXA Spectrum Analyzer              | Keysight     | N9010A   | MY55370495 | 2018.04.09 | 2019.04.08    |
| MXA Signal Analyzer                | Keysight     | N9020A   | MY56060147 | 2018.04.09 | 2019.04.08    |
| Temperature/Humidity Meter         | zhichen      | ZC1-2    | TR8-TH     | 2018.04.10 | 2019.04.09    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 8.2. Test Setup



### 8.3. Limit

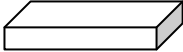
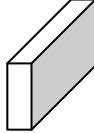
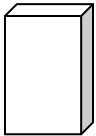
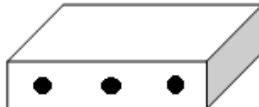
| Fundamental emission output power Limit                     |                                                                                                                                                                         |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/>                         | For the band 5.15-5.25 GHz                                                                                                                                              |
| <input type="checkbox"/>                                    | Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 17 - (G_{TX} - 6)$                 |
| <input checked="" type="checkbox"/>                         | Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 17 - (G_{TX} - 6)$                  |
| <input type="checkbox"/>                                    | Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 23\text{dBi}$ , then $P_{out} \leq 17 - (G_{TX} - 23)$ |
| <input type="checkbox"/>                                    | Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 11 - (G_{TX} - 6)$   |
| <input checked="" type="checkbox"/>                         | For the 5.25-5.35 GHz:                                                                                                                                                  |
| <input checked="" type="checkbox"/>                         | the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 11 - (G_{TX} - 6)$                                       |
| <input checked="" type="checkbox"/>                         | For the 5.47-5.725 GHz:                                                                                                                                                 |
| <input checked="" type="checkbox"/>                         | the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 11 - (G_{TX} - 6)$                                       |
| <input checked="" type="checkbox"/>                         | For the band 5.725-5.85 GHz:                                                                                                                                            |
| <input checked="" type="checkbox"/>                         | the maximum power spectral density shall not exceed 30 dBm/500KHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 30 - (G_{TX} - 6)$                                    |
| Note 1: $G_{TX}$ directional gain of transmitting antennas. |                                                                                                                                                                         |
| Note 2: $P_{out}$ is maximum peak conducted output power.   |                                                                                                                                                                         |

## 8.4. Test Procedure

| Fundamental emission output power Test Method |                          |         |                                      |
|-----------------------------------------------|--------------------------|---------|--------------------------------------|
|                                               | References Rule          | Chapter | Description                          |
| <input checked="" type="checkbox"/>           | ANSI C63.10              | 12.5    | Peak power spectral density          |
| <input checked="" type="checkbox"/>           | FCC KDB 789033 D02v02r01 | F       | Maximum Power Spectral Density (PSD) |

| Directional Gain Calculations for In-Band test method |                                     |             |             |                                                                   |
|-------------------------------------------------------|-------------------------------------|-------------|-------------|-------------------------------------------------------------------|
|                                                       | References Rule                     |             | Chapter     | Description                                                       |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)a)       | Basic methodology                                                 |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)a) (i)   | transmit signals are correlated                                   |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)a) (ii)  | transmit signals are uncorrelated                                 |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)b)       | Sectorized antenna systems.                                       |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)c)       | Cross-polarized antennas                                          |
|                                                       | <input type="checkbox"/>            | ANSI C63.10 | F2)c) (i)   | Cross-polarized antennas                                          |
|                                                       | <input type="checkbox"/>            | ANSI C63.10 | F2)c) (ii)  | Multiple antennas                                                 |
| <input checked="" type="checkbox"/>                   | KDB 662911                          |             | F2)e)       | Spatial stream                                                    |
|                                                       | <input checked="" type="checkbox"/> | KDB 662911  | F2)e) (i)   | Antennas have the same gain                                       |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)e) (ii)  | Antenna have the different gain with one spatial stream           |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)e) (iii) | Antenna have the different gain with more than one spatial stream |
| <input checked="" type="checkbox"/>                   | KDB 662911                          |             | F2)f)       | Cyclic Delay Diversity (CDD)                                      |
|                                                       | <input checked="" type="checkbox"/> | KDB 662911  | F2)f) (i)   | Antennas have the same gain                                       |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)f) (ii)  | Antenna have the different gain with one spatial stream           |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)f) (iii) | Antenna have the different gain with more than one spatial stream |

### 8.5.EUT test Axis definition

| Item            | Peak power spectral density                                                          |                                                                                      |                                                                                      |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Device Category | <input checked="" type="checkbox"/>                                                  | Indoor use                                                                           |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Outdoor use                                                                          |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Fix position use                                                                     |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Client use                                                                           |                                                                                      |                                                                                      |
| Test mode       | Mode 1-20                                                                            |                                                                                      |                                                                                      |                                                                                      |
| Test method     | <input type="checkbox"/>                                                             | Radiated                                                                             |                                                                                      |                                                                                      |
|                 |                                                                                      | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |
|                 |                                                                                      |    |  |  |
|                 |                                                                                      | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |
|                 | <input checked="" type="checkbox"/>                                                  | Conducted                                                                            |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              |                                                                                      |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input checked="" type="checkbox"/>                                                  | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |
|                 |  |                                                                                      |                                                                                      |                                                                                      |

## 8.6. Test Result

|              |                         |               |                |
|--------------|-------------------------|---------------|----------------|
| Product Name | : Wireless Access Point | Power         | : AC 120V/60Hz |
| Test Mode    | : Mode 1~20             | Test Site     | : TR8          |
| Test Date    | : 2018.05.24            | Test Engineer | : Tommy        |

| Mode 1: Transmit by 802.11a with CDD by ant0+1 |                 |                                                 |       |             |                                    |                        |                    |        |
|------------------------------------------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|------------------------|--------------------|--------|
| Channel No.                                    | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|                                                |                 | Ant0                                            | Ant1  |             |                                    |                        |                    |        |
| CH36                                           | 5180            | 5.964                                           | 5.838 | 0.24        | 9.15                               | 9                      | 14                 | Pass   |
| CH44                                           | 5220            | 5.986                                           | 5.855 | 0.24        | 9.17                               | 9                      | 14                 | Pass   |
| CH48                                           | 5240            | 5.926                                           | 6.012 | 0.24        | 9.22                               | 9                      | 14                 | Pass   |
| CH52                                           | 5260            | 4.591                                           | 4.561 | 0.24        | 7.83                               | 9                      | 8                  | Pass   |
| CH60                                           | 5300            | 4.249                                           | 4.106 | 0.24        | 7.43                               | 9                      | 8                  | Pass   |
| CH64                                           | 5320            | 4.019                                           | 4.479 | 0.24        | 7.51                               | 9                      | 8                  | Pass   |
| CH100                                          | 5500            | 4.465                                           | 4.343 | 0.24        | 7.65                               | 9                      | 8                  | Pass   |
| CH116                                          | 5580            | 4.336                                           | 4.382 | 0.24        | 7.61                               | 9                      | 8                  | Pass   |
| CH140                                          | 5700            | 2.893                                           | 3.301 | 0.24        | 6.35                               | 9                      | 8                  | Pass   |
| CH144                                          | 5720            | 3.224                                           | 3.262 | 0.24        | 6.49                               | 9                      | 8                  | Pass   |
| Channel No.                                    | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|                                                |                 | Ant0                                            | Ant1  |             |                                    |                        |                    |        |
| CH149                                          | 5745            | 5.036                                           | 5.176 | 0.24        | 8.36                               | 9                      | 27                 | Pass   |
| CH157                                          | 5785            | 4.714                                           | 4.793 | 0.24        | 8.00                               | 9                      | 27                 | Pass   |
| CH165                                          | 5825            | 4.371                                           | 4.274 | 0.24        | 7.57                               | 9                      | 27                 | Pass   |

| Mode 1: Transmit by 802.11a with CDD by ant0+1+2+3 |                 |                                                 |        |        |        |             |                                    |                        |                    |        |
|----------------------------------------------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
| Channel No.                                        | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|                                                    |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH36                                               | 5180            | 2.358                                           | 2.598  | 2.707  | 2.585  | 0.24        | 8.82                               | 12                     | 11                 | Pass   |
| CH44                                               | 5220            | 1.751                                           | 1.627  | 1.797  | 1.601  | 0.24        | 7.96                               | 12                     | 11                 | Pass   |
| CH48                                               | 5240            | 2.027                                           | 1.918  | 1.969  | 1.834  | 0.24        | 8.20                               | 12                     | 11                 | Pass   |
| CH52                                               | 5260            | -0.124                                          | -2.497 | -2.629 | -1.518 | 0.24        | 4.69                               | 12                     | 5                  | Pass   |
| CH60                                               | 5300            | -0.037                                          | -2.571 | -2.663 | -2.627 | 0.24        | 4.44                               | 12                     | 5                  | Pass   |
| CH64                                               | 5320            | -0.293                                          | -2.712 | -2.798 | -2.384 | 0.24        | 4.34                               | 12                     | 5                  | Pass   |
| CH100                                              | 5500            | -1.375                                          | -1.798 | -1.704 | -1.693 | 0.24        | 4.62                               | 12                     | 5                  | Pass   |
| CH116                                              | 5580            | -1.694                                          | -1.410 | -1.288 | -1.404 | 0.24        | 4.81                               | 12                     | 5                  | Pass   |
| CH140                                              | 5700            | -1.863                                          | -1.895 | -2.174 | -1.813 | 0.24        | 4.33                               | 12                     | 5                  | Pass   |
| CH144                                              | 5720            | -1.868                                          | -1.940 | -2.067 | -1.950 | 0.24        | 4.30                               | 12                     | 5                  | Pass   |
| Channel No.                                        | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|                                                    |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH149                                              | 5745            | 2.654                                           | 2.570  | 2.683  | 2.719  | 0.24        | 8.92                               | 12                     | 24                 | Pass   |
| CH157                                              | 5785            | 3.108                                           | 3.250  | 3.564  | 3.078  | 0.24        | 9.51                               | 12                     | 24                 | Pass   |
| CH165                                              | 5825            | 3.670                                           | 3.426  | 3.156  | 3.183  | 0.24        | 9.62                               | 12                     | 24                 | Pass   |



**Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)   | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|-------|-------------|-----------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1  |             |                                   |                        |                    |        |
| CH36        | 5180            | 5.601                                           | 5.344 | 0.26        | 8.74                              | 9                      | 14                 | Pass   |
| CH44        | 5220            | 5.633                                           | 5.528 | 0.26        | 8.85                              | 9                      | 14                 | Pass   |
| CH48        | 5240            | 5.550                                           | 5.443 | 0.26        | 8.77                              | 9                      | 14                 | Pass   |
| CH52        | 5260            | 4.053                                           | 4.425 | 0.26        | 7.51                              | 9                      | 8                  | Pass   |
| CH60        | 5300            | 3.943                                           | 4.053 | 0.26        | 7.27                              | 9                      | 8                  | Pass   |
| CH64        | 5320            | 3.942                                           | 3.778 | 0.26        | 7.13                              | 9                      | 8                  | Pass   |
| CH100       | 5500            | 4.496                                           | 4.485 | 0.26        | 7.76                              | 9                      | 8                  | Pass   |
| CH116       | 5580            | 4.528                                           | 4.465 | 0.26        | 7.77                              | 9                      | 8                  | Pass   |
| CH140       | 5700            | 3.480                                           | 3.117 | 0.26        | 6.57                              | 9                      | 8                  | Pass   |
| CH144       | 5720            | 3.287                                           | 3.539 | 0.26        | 6.69                              | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500Hz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1  |             |                                   |                        |                    |        |
| CH149       | 5745            | 4.918                                           | 4.590 | 0.26        | 8.03                              | 9                      | 27                 | Pass   |
| CH157       | 5785            | 4.270                                           | 4.349 | 0.26        | 7.58                              | 9                      | 27                 | Pass   |
| CH165       | 5825            | 3.841                                           | 3.690 | 0.26        | 7.04                              | 9                      | 27                 | Pass   |

| Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1+2+3 |                 |                                                 |        |        |        |             |                                    |                        |                    |        |
|-----------------------------------------------------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
| Channel No.                                               | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|                                                           |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH36                                                      | 5180            | 1.711                                           | 1.339  | 1.409  | 1.553  | 0.26        | 7.79                               | 12                     | 11                 | Pass   |
| CH44                                                      | 5220            | 2.142                                           | 1.921  | 1.921  | 2.100  | 0.26        | 8.30                               | 12                     | 11                 | Pass   |
| CH48                                                      | 5240            | 2.228                                           | 2.364  | 2.437  | 2.534  | 0.26        | 8.67                               | 12                     | 11                 | Pass   |
| CH52                                                      | 5260            | -1.961                                          | -2.024 | -1.278 | -1.777 | 0.26        | 4.53                               | 12                     | 5                  | Pass   |
| CH60                                                      | 5300            | -2.051                                          | -1.812 | -1.699 | -1.813 | 0.26        | 4.44                               | 12                     | 5                  | Pass   |
| CH64                                                      | 5320            | -1.907                                          | -1.969 | -1.627 | -1.605 | 0.26        | 4.51                               | 12                     | 5                  | Pass   |
| CH100                                                     | 5500            | -1.383                                          | -1.615 | -1.617 | -1.424 | 0.26        | 4.77                               | 12                     | 5                  | Pass   |
| CH116                                                     | 5580            | -1.391                                          | -1.465 | -1.423 | -1.395 | 0.26        | 4.86                               | 12                     | 5                  | Pass   |
| CH140                                                     | 5700            | -1.915                                          | -1.936 | -2.183 | -1.352 | 0.26        | 4.44                               | 12                     | 5                  | Pass   |
| CH144                                                     | 5720            | -1.669                                          | -1.705 | -1.310 | -1.732 | 0.26        | 4.68                               | 12                     | 5                  | Pass   |
| Channel No.                                               | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|                                                           |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH149                                                     | 5745            | 2.229                                           | 2.002  | 2.295  | 2.274  | 0.26        | 8.48                               | 12                     | 24                 | Pass   |
| CH157                                                     | 5785            | 2.643                                           | 2.859  | 2.715  | 2.551  | 0.26        | 8.97                               | 12                     | 24                 | Pass   |
| CH165                                                     | 5825            | 2.675                                           | 2.883  | 2.679  | 2.693  | 0.26        | 9.01                               | 12                     | 24                 | Pass   |

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH38        | 5190            | -0.207                                          | -0.293 | 0.43        | 3.19                               | 9                      | 14                 | Pass   |
| CH46        | 5230            | -0.040                                          | 0.438  | 0.43        | 3.65                               | 9                      | 14                 | Pass   |
| CH54        | 5270            | -1.243                                          | 0.195  | 0.43        | 2.98                               | 9                      | 8                  | Pass   |
| CH62        | 5310            | -1.202                                          | -0.178 | 0.43        | 2.78                               | 9                      | 8                  | Pass   |
| CH102       | 5510            | 1.232                                           | 0.211  | 0.43        | 4.19                               | 9                      | 8                  | Pass   |
| CH110       | 5550            | 1.363                                           | 0.718  | 0.43        | 4.49                               | 9                      | 8                  | Pass   |
| CH134       | 5670            | 0.501                                           | 2.362  | 0.43        | 4.97                               | 9                      | 8                  | Pass   |
| CH142       | 5710            | 1.261                                           | 1.896  | 0.43        | 5.03                               | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH151       | 5755            | -0.410                                          | -0.531 | 0.43        | 2.97                               | 9                      | 27                 | Pass   |
| CH159       | 5795            | -0.309                                          | -0.135 | 0.43        | 3.22                               | 9                      | 27                 | Pass   |

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH38        | 5190            | -3.908                                          | -4.163 | -4.122 | -4.129 | 0.43        | 2.37                               | 12                     | 11                 | Pass   |
| CH46        | 5230            | -3.207                                          | -3.478 | -3.236 | -3.268 | 0.43        | 3.15                               | 12                     | 11                 | Pass   |
| CH54        | 5270            | -5.398                                          | -5.671 | -4.884 | -5.060 | 0.43        | 1.21                               | 12                     | 5                  | Pass   |
| CH62        | 5310            | -5.573                                          | -6.031 | -5.553 | -4.812 | 0.43        | 0.98                               | 12                     | 5                  | Pass   |
| CH102       | 5510            | -4.517                                          | -3.621 | -3.288 | -2.675 | 0.43        | 2.98                               | 12                     | 5                  | Pass   |
| CH110       | 5550            | -4.399                                          | -4.146 | -3.037 | -2.565 | 0.43        | 2.98                               | 12                     | 5                  | Pass   |
| CH134       | 5670            | -4.116                                          | -3.910 | -2.392 | -2.998 | 0.43        | 3.15                               | 12                     | 5                  | Pass   |
| CH142       | 5710            | -5.081                                          | -4.816 | -2.650 | -2.458 | 0.43        | 2.86                               | 12                     | 5                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH151       | 5755            | -3.804                                          | -3.725 | -3.657 | -3.713 | 0.43        | 2.73                               | 12                     | 24                 | Pass   |
| CH159       | 5795            | -2.771                                          | -2.849 | -2.935 | -2.729 | 0.43        | 3.63                               | 12                     | 24                 | Pass   |

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1  |             |                                    |                        |                    |        |
| CH36        | 5180            | 5.624                                           | 5.704 | 0.10        | 8.77                               | 9                      | 14                 | Pass   |
| CH44        | 5220            | 5.802                                           | 5.853 | 0.10        | 8.94                               | 9                      | 14                 | Pass   |
| CH48        | 5240            | 5.778                                           | 5.778 | 0.10        | 8.89                               | 9                      | 14                 | Pass   |
| CH52        | 5260            | 4.414                                           | 4.445 | 0.10        | 7.54                               | 9                      | 8                  | Pass   |
| CH60        | 5300            | 4.216                                           | 4.321 | 0.10        | 7.38                               | 9                      | 8                  | Pass   |
| CH64        | 5320            | 4.144                                           | 3.917 | 0.10        | 7.14                               | 9                      | 8                  | Pass   |
| CH100       | 5500            | 4.647                                           | 4.623 | 0.10        | 7.75                               | 9                      | 8                  | Pass   |
| CH116       | 5580            | 4.634                                           | 4.437 | 0.10        | 7.65                               | 9                      | 8                  | Pass   |
| CH140       | 5700            | 2.893                                           | 3.301 | 0.10        | 6.21                               | 9                      | 8                  | Pass   |
| CH144       | 5720            | 3.814                                           | 3.628 | 0.10        | 6.83                               | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1  |             |                                    |                        |                    |        |
| CH149       | 5745            | 5.361                                           | 5.370 | 0.10        | 8.48                               | 9                      | 27                 | Pass   |
| CH157       | 5785            | 4.612                                           | 4.711 | 0.10        | 7.77                               | 9                      | 27                 | Pass   |
| CH165       | 5825            | 4.586                                           | 4.438 | 0.10        | 7.62                               | 9                      | 27                 | Pass   |

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH36        | 5180            | 1.002                                           | 0.834  | 1.054  | 0.921  | 0.10        | 7.07                               | 12                     | 11                 | Pass   |
| CH44        | 5220            | 1.498                                           | 1.303  | 1.172  | 1.493  | 0.10        | 7.49                               | 12                     | 11                 | Pass   |
| CH48        | 5240            | 1.610                                           | 1.921  | 1.668  | 1.705  | 0.10        | 7.85                               | 12                     | 11                 | Pass   |
| CH52        | 5260            | -1.294                                          | -1.485 | -1.450 | -1.590 | 0.10        | 4.67                               | 12                     | 5                  | Pass   |
| CH60        | 5300            | -1.704                                          | -1.774 | -1.915 | -1.475 | 0.10        | 4.41                               | 12                     | 5                  | Pass   |
| CH64        | 5320            | -1.872                                          | -2.087 | -2.135 | -2.081 | 0.10        | 4.08                               | 12                     | 5                  | Pass   |
| CH100       | 5500            | -1.312                                          | -1.234 | -1.531 | -1.452 | 0.10        | 4.74                               | 12                     | 5                  | Pass   |
| CH116       | 5580            | -1.538                                          | -1.569 | -1.519 | -1.541 | 0.10        | 4.58                               | 12                     | 5                  | Pass   |
| CH140       | 5700            | -1.975                                          | -1.803 | -1.725 | -1.898 | 0.10        | 4.27                               | 12                     | 5                  | Pass   |
| CH144       | 5720            | -2.075                                          | -1.361 | -1.331 | -1.273 | 0.10        | 4.62                               | 12                     | 5                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH149       | 5745            | 2.328                                           | 2.259  | 2.391  | 2.187  | 0.10        | 8.41                               | 12                     | 24                 | Pass   |
| CH157       | 5785            | 2.696                                           | 2.737  | 2.909  | 2.992  | 0.10        | 8.96                               | 12                     | 24                 | Pass   |
| CH165       | 5825            | 2.799                                           | 2.766  | 2.781  | 2.794  | 0.10        | 8.91                               | 12                     | 24                 | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH38        | 5190            | -0.746                                          | -0.675 | 0.32        | 2.62                               | 9                      | 14                 | Pass   |
| CH46        | 5230            | -0.041                                          | -0.098 | 0.32        | 3.26                               | 9                      | 14                 | Pass   |
| CH54        | 5270            | 0.538                                           | 0.195  | 0.32        | 3.70                               | 9                      | 8                  | Pass   |
| CH62        | 5310            | 0.543                                           | -0.178 | 0.32        | 3.53                               | 9                      | 8                  | Pass   |
| CH102       | 5510            | 0.594                                           | 0.211  | 0.32        | 3.74                               | 9                      | 8                  | Pass   |
| CH110       | 5550            | 1.133                                           | 0.718  | 0.32        | 4.26                               | 9                      | 8                  | Pass   |
| CH134       | 5670            | 2.533                                           | 2.362  | 0.32        | 5.78                               | 9                      | 8                  | Pass   |
| CH142       | 5710            | 2.136                                           | 2.262  | 0.32        | 5.53                               | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH151       | 5755            | 0.027                                           | 0.035  | 0.32        | 3.36                               | 9                      | 27                 | Pass   |
| CH159       | 5795            | -0.209                                          | -0.003 | 0.32        | 3.23                               | 9                      | 27                 | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH38        | 5190            | -4.103                                          | -4.187 | -4.268 | -4.212 | 0.32        | 2.15                               | 12                     | 11                 | Pass   |
| CH46        | 5230            | -3.749                                          | -3.686 | -3.647 | -3.626 | 0.32        | 2.66                               | 12                     | 11                 | Pass   |
| CH54        | 5270            | -5.161                                          | -5.614 | -4.659 | -4.631 | 0.32        | 1.34                               | 12                     | 5                  | Pass   |
| CH62        | 5310            | -5.779                                          | -6.400 | -5.207 | -4.586 | 0.32        | 0.90                               | 12                     | 5                  | Pass   |
| CH102       | 5510            | -2.898                                          | -3.689 | -2.801 | -2.567 | 0.32        | 3.37                               | 12                     | 5                  | Pass   |
| CH110       | 5550            | -2.883                                          | -3.597 | -2.649 | -2.268 | 0.32        | 3.52                               | 12                     | 5                  | Pass   |
| CH134       | 5670            | -4.250                                          | -3.669 | -2.575 | -2.541 | 0.32        | 3.14                               | 12                     | 5                  | Pass   |
| CH142       | 5710            | -5.222                                          | -5.189 | -3.031 | -2.406 | 0.32        | 2.56                               | 12                     | 5                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH151       | 5755            | -2.926                                          | -3.213 | -3.149 | -3.163 | 0.32        | 3.23                               | 12                     | 24                 | Pass   |
| CH159       | 5795            | -3.071                                          | -2.915 | -2.989 | -2.824 | 0.32        | 3.39                               | 12                     | 24                 | Pass   |



**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH42        | 5210            | -3.158                                          | -3.198 | 0.64        | 0.47                               | 9                      | 14                 | Pass   |
| CH58        | 5290            | -2.462                                          | -2.437 | 0.64        | 1.20                               | 9                      | 8                  | Pass   |
| CH106       | 5530            | -5.230                                          | -5.157 | 0.64        | -1.54                              | 9                      | 8                  | Pass   |
| CH138       | 5690            | -5.126                                          | -5.018 | 0.64        | -1.42                              | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH155       | 5775            | -1.838                                          | -1.924 | 0.64        | 1.13                               | 9                      | 27                 | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH42        | 5210            | -7.109                                          | -7.151 | -7.055 | -7.175 | 0.64        | -0.46                              | 12                     | 11                 | Pass   |
| CH58        | 5290            | -8.723                                          | -9.266 | -8.045 | -8.279 | 0.64        | -1.89                              | 12                     | 5                  | Pass   |
| CH106       | 5530            | -8.157                                          | -8.357 | -7.648 | -7.016 | 0.64        | -1.10                              | 12                     | 5                  | Pass   |
| CH138       | 5690            | -9.861                                          | -9.925 | -7.761 | -8.298 | 0.64        | -2.20                              | 12                     | 5                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH155       | 5775            | -6.072                                          | -6.117 | -6.095 | -5.951 | 0.64        | 0.60                               | 12                     | 24                 | Pass   |

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) | Directional Gain (dBi) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|------------------------|-----------------|--------|
|             |                 | Ant0                                         | Ant1  |             |                                 |                        |                 |        |
| CH50        | 5250            | -5.25                                        | -5.87 | 0.49        | -2.05                           | 9                      | 14              | Pass   |
| CH144       | 5570            | -7.04                                        | -7.34 | 0.49        | -3.68                           | 9                      | 14              | Pass   |

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1+2+3**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|-----------------|--------|
|             |                 | Ant0                                         | Ant1   | Ant2   | Ant3   |             |                                    |                        |                 |        |
| CH50        | 5250            | -10.83                                       | -11.05 | -10.20 | -10.69 | 0.49        | -4.17                              | 12                     | 11              | Pass   |
| CH144       | 5570            | -10.64                                       | -10.41 | -10.50 | -11.13 | 0.49        | -4.15                              | 12                     | 11              | Pass   |

**Mode 11: Transmit by 802.11a with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1  |             |                                    |                        |                    |        |
| CH36        | 5180            | 6.088                                           | 6.005 | 0.25        | 9.31                               | 9                      | 14                 | Pass   |
| CH44        | 5220            | 6.079                                           | 6.080 | 0.25        | 9.34                               | 9                      | 14                 | Pass   |
| CH48        | 5240            | 5.973                                           | 5.857 | 0.25        | 9.18                               | 9                      | 14                 | Pass   |
| CH52        | 5260            | 4.620                                           | 4.692 | 0.25        | 7.92                               | 9                      | 8                  | Pass   |
| CH60        | 5300            | 4.118                                           | 4.390 | 0.25        | 7.52                               | 9                      | 8                  | Pass   |
| CH64        | 5320            | 4.061                                           | 4.083 | 0.25        | 7.33                               | 9                      | 8                  | Pass   |
| CH100       | 5500            | 4.612                                           | 4.317 | 0.25        | 7.73                               | 9                      | 8                  | Pass   |
| CH116       | 5580            | 3.997                                           | 4.371 | 0.25        | 7.45                               | 9                      | 8                  | Pass   |
| CH140       | 5700            | 3.444                                           | 3.550 | 0.25        | 6.76                               | 9                      | 8                  | Pass   |
| CH144       | 5720            | 4.259                                           | 4.877 | 0.25        | 7.84                               | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1  |             |                                    |                        |                    |        |
| CH149       | 5745            | 5.022                                           | 4.964 | 0.25        | 8.25                               | 9                      | 27                 | Pass   |
| CH157       | 5785            | 4.841                                           | 4.626 | 0.25        | 8.00                               | 9                      | 27                 | Pass   |
| CH165       | 5825            | 4.432                                           | 4.331 | 0.25        | 7.64                               | 9                      | 27                 | Pass   |

| Mode 11: Transmit by 802.11a with Beam-forming by ant0+1+2+3 |                 |                                                 |        |        |        |             |                                    |                        |                    |        |
|--------------------------------------------------------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
| Channel No.                                                  | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|                                                              |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH36                                                         | 5180            | 2.012                                           | 1.947  | 1.997  | 2.080  | 0.25        | 8.28                               | 12                     | 11                 | Pass   |
| CH44                                                         | 5220            | 2.327                                           | 2.247  | 2.039  | 2.271  | 0.25        | 8.49                               | 12                     | 11                 | Pass   |
| CH48                                                         | 5240            | 2.792                                           | 2.581  | 2.651  | 2.633  | 0.25        | 8.94                               | 12                     | 11                 | Pass   |
| CH52                                                         | 5260            | -2.515                                          | -2.112 | -1.526 | -2.054 | 0.25        | 4.22                               | 12                     | 5                  | Pass   |
| CH60                                                         | 5300            | -3.682                                          | -3.665 | -2.446 | -2.608 | 0.25        | 3.20                               | 12                     | 5                  | Pass   |
| CH64                                                         | 5320            | -3.237                                          | -3.403 | -2.491 | -2.196 | 0.25        | 3.46                               | 12                     | 5                  | Pass   |
| CH100                                                        | 5500            | -2.657                                          | -3.192 | -2.596 | -1.098 | 0.25        | 3.95                               | 12                     | 5                  | Pass   |
| CH116                                                        | 5580            | -3.151                                          | -2.900 | -2.845 | -1.069 | 0.25        | 3.85                               | 12                     | 5                  | Pass   |
| CH140                                                        | 5700            | -2.983                                          | -2.763 | -1.789 | -1.924 | 0.25        | 3.93                               | 12                     | 5                  | Pass   |
| CH144                                                        | 5720            | -3.260                                          | -3.490 | -2.451 | -2.666 | 0.25        | 3.31                               | 12                     | 5                  | Pass   |
| Channel No.                                                  | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|                                                              |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH149                                                        | 5745            | 1.705                                           | 1.581  | 1.513  | 1.498  | 0.25        | 7.85                               | 12                     | 24                 | Pass   |
| CH157                                                        | 5785            | 2.217                                           | 2.121  | 2.322  | 2.148  | 0.25        | 8.47                               | 12                     | 24                 | Pass   |
| CH165                                                        | 5825            | 1.994                                           | 1.862  | 1.689  | 1.945  | 0.25        | 8.14                               | 12                     | 24                 | Pass   |

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1  |             |                                    |                        |                    |        |
| CH36        | 5180            | 5.358                                           | 5.515 | 0.23        | 8.68                               | 9                      | 14                 | Pass   |
| CH44        | 5220            | 5.680                                           | 5.596 | 0.23        | 8.88                               | 9                      | 14                 | Pass   |
| CH48        | 5240            | 5.581                                           | 5.536 | 0.23        | 8.80                               | 9                      | 14                 | Pass   |
| CH52        | 5260            | 4.298                                           | 4.244 | 0.23        | 7.51                               | 9                      | 8                  | Pass   |
| CH60        | 5300            | 3.970                                           | 4.289 | 0.23        | 7.37                               | 9                      | 8                  | Pass   |
| CH64        | 5320            | 3.808                                           | 3.875 | 0.23        | 7.08                               | 9                      | 8                  | Pass   |
| CH100       | 5500            | 3.871                                           | 3.892 | 0.23        | 7.12                               | 9                      | 8                  | Pass   |
| CH116       | 5580            | 4.502                                           | 4.383 | 0.23        | 7.68                               | 9                      | 8                  | Pass   |
| CH140       | 5700            | 4.505                                           | 4.636 | 0.23        | 7.81                               | 9                      | 8                  | Pass   |
| CH144       | 5720            | 4.402                                           | 5.021 | 0.23        | 7.96                               | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1  |             |                                    |                        |                    |        |
| CH149       | 5745            | 4.934                                           | 4.714 | 0.23        | 8.07                               | 9                      | 27                 | Pass   |
| CH157       | 5785            | 4.423                                           | 4.264 | 0.23        | 7.58                               | 9                      | 27                 | Pass   |
| CH165       | 5825            | 3.740                                           | 4.108 | 0.23        | 7.17                               | 9                      | 27                 | Pass   |

| Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1+2+3 |                 |                                                 |        |        |        |             |                                    |                        |                    |        |
|---------------------------------------------------------------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
| Channel No.                                                         | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|                                                                     |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH36                                                                | 5180            | 1.390                                           | 1.214  | 1.367  | 1.262  | 0.23        | 7.56                               | 12                     | 11                 | Pass   |
| CH44                                                                | 5220            | 1.734                                           | 1.649  | 1.845  | 1.675  | 0.23        | 7.98                               | 12                     | 11                 | Pass   |
| CH48                                                                | 5240            | 1.930                                           | 2.032  | 1.823  | 1.916  | 0.23        | 8.18                               | 12                     | 11                 | Pass   |
| CH52                                                                | 5260            | -3.057                                          | -3.212 | -2.106 | -2.557 | 0.23        | 3.57                               | 12                     | 5                  | Pass   |
| CH60                                                                | 5300            | -3.967                                          | -3.889 | -3.249 | -2.957 | 0.23        | 2.79                               | 12                     | 5                  | Pass   |
| CH64                                                                | 5320            | -3.383                                          | -3.835 | -3.253 | -3.024 | 0.23        | 2.92                               | 12                     | 5                  | Pass   |
| CH100                                                               | 5500            | -2.760                                          | -2.874 | -2.968 | -1.603 | 0.23        | 3.77                               | 12                     | 5                  | Pass   |
| CH116                                                               | 5580            | -2.295                                          | -2.994 | -2.556 | -1.198 | 0.23        | 4.07                               | 12                     | 5                  | Pass   |
| CH140                                                               | 5700            | -3.405                                          | -3.308 | -2.280 | -2.549 | 0.23        | 3.42                               | 12                     | 5                  | Pass   |
| CH144                                                               | 5720            | -2.856                                          | -3.131 | -2.229 | -1.886 | 0.23        | 3.78                               | 12                     | 5                  | Pass   |
| Channel No.                                                         | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|                                                                     |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH149                                                               | 5745            | 0.794                                           | 0.824  | 0.857  | 0.785  | 0.23        | 7.07                               | 12                     | 24                 | Pass   |
| CH157                                                               | 5785            | 1.264                                           | 1.314  | 1.557  | 1.381  | 0.23        | 7.63                               | 12                     | 24                 | Pass   |
| CH165                                                               | 5825            | 1.266                                           | 1.745  | 1.705  | 1.635  | 0.23        | 7.84                               | 12                     | 24                 | Pass   |

**Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH38        | 5190            | -0.151                                          | -0.171 | 0.46        | 3.31                               | 9                      | 14                 | Pass   |
| CH46        | 5230            | 0.637                                           | 0.352  | 0.46        | 3.97                               | 9                      | 14                 | Pass   |
| CH54        | 5270            | 0.654                                           | 0.833  | 0.46        | 4.21                               | 9                      | 8                  | Pass   |
| CH62        | 5310            | 1.364                                           | 0.646  | 0.46        | 4.49                               | 9                      | 8                  | Pass   |
| CH102       | 5510            | 0.846                                           | 1.150  | 0.46        | 4.47                               | 9                      | 8                  | Pass   |
| CH110       | 5550            | 0.540                                           | 0.937  | 0.46        | 4.21                               | 9                      | 8                  | Pass   |
| CH134       | 5670            | 3.330                                           | 2.700  | 0.46        | 6.50                               | 9                      | 8                  | Pass   |
| CH142       | 5710            | 3.234                                           | 3.107  | 0.46        | 6.64                               | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH151       | 5755            | -0.376                                          | -0.334 | 0.46        | 3.12                               | 9                      | 27                 | Pass   |
| CH159       | 5795            | -0.017                                          | 0.000  | 0.46        | 3.46                               | 9                      | 27                 | Pass   |

**Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH38        | 5190            | -3.304                                          | -3.246 | -3.496 | -3.283 | 0.46        | 3.15                               | 12                     | 11                 | Pass   |
| CH46        | 5230            | -2.492                                          | -2.396 | -2.392 | -2.489 | 0.46        | 4.04                               | 12                     | 11                 | Pass   |
| CH54        | 5270            | -5.122                                          | -5.841 | -5.267 | -5.331 | 0.46        | 1.07                               | 12                     | 5                  | Pass   |
| CH62        | 5310            | -5.655                                          | -6.032 | -6.161 | -4.913 | 0.46        | 0.79                               | 12                     | 5                  | Pass   |
| CH102       | 5510            | -4.758                                          | -5.260 | -4.682 | -4.652 | 0.46        | 1.62                               | 12                     | 5                  | Pass   |
| CH110       | 5550            | -5.472                                          | -4.857 | -4.836 | -4.186 | 0.46        | 1.64                               | 12                     | 5                  | Pass   |
| CH134       | 5670            | -5.459                                          | -5.192 | -4.545 | -4.980 | 0.46        | 1.42                               | 12                     | 5                  | Pass   |
| CH142       | 5710            | -5.897                                          | -5.437 | -5.092 | -5.229 | 0.46        | 1.05                               | 12                     | 5                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH151       | 5755            | -2.952                                          | -2.893 | -2.708 | -2.402 | 0.46        | 3.75                               | 12                     | 24                 | Pass   |
| CH159       | 5795            | -2.878                                          | -2.342 | -2.457 | -2.533 | 0.46        | 3.93                               | 12                     | 24                 | Pass   |



**Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1  |             |                                    |                        |                    |        |
| CH36        | 5180            | 5.526                                           | 5.664 | 0.11        | 8.72                               | 9                      | 14                 | Pass   |
| CH44        | 5220            | 5.743                                           | 5.733 | 0.11        | 8.86                               | 9                      | 14                 | Pass   |
| CH48        | 5240            | 5.742                                           | 5.684 | 0.11        | 8.83                               | 9                      | 14                 | Pass   |
| CH52        | 5260            | 4.817                                           | 4.573 | 0.11        | 7.82                               | 9                      | 8                  | Pass   |
| CH60        | 5300            | 4.579                                           | 4.374 | 0.11        | 7.60                               | 9                      | 8                  | Pass   |
| CH64        | 5320            | 4.105                                           | 3.747 | 0.11        | 7.05                               | 9                      | 8                  | Pass   |
| CH100       | 5500            | 4.059                                           | 3.452 | 0.11        | 6.89                               | 9                      | 8                  | Pass   |
| CH116       | 5580            | 4.097                                           | 3.782 | 0.11        | 7.06                               | 9                      | 8                  | Pass   |
| CH140       | 5700            | 3.463                                           | 3.354 | 0.11        | 6.53                               | 9                      | 8                  | Pass   |
| CH144       | 5720            | 5.055                                           | 4.294 | 0.11        | 7.81                               | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1  |             |                                    |                        |                    |        |
| CH149       | 5745            | 5.127                                           | 5.323 | 0.11        | 8.35                               | 9                      | 27                 | Pass   |
| CH157       | 5785            | 4.634                                           | 4.466 | 0.11        | 7.67                               | 9                      | 27                 | Pass   |
| CH165       | 5825            | 4.484                                           | 4.450 | 0.11        | 7.59                               | 9                      | 27                 | Pass   |

| Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1+2+3 |                 |                                                 |        |        |        |             |                                    |                        |                    |        |
|----------------------------------------------------------------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
| Channel No.                                                          | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|                                                                      |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH36                                                                 | 5180            | 1.844                                           | 1.635  | 1.745  | 1.493  | 0.11        | 7.81                               | 12                     | 11                 | Pass   |
| CH44                                                                 | 5220            | 2.032                                           | 2.252  | 2.055  | 2.051  | 0.11        | 8.23                               | 12                     | 11                 | Pass   |
| CH48                                                                 | 5240            | 2.372                                           | 2.433  | 2.266  | 2.375  | 0.11        | 8.49                               | 12                     | 11                 | Pass   |
| CH52                                                                 | 5260            | -3.175                                          | -2.968 | -2.314 | -2.409 | 0.11        | 3.42                               | 12                     | 5                  | Pass   |
| CH60                                                                 | 5300            | -3.739                                          | -3.439 | -2.900 | -2.591 | 0.11        | 2.98                               | 12                     | 5                  | Pass   |
| CH64                                                                 | 5320            | -3.466                                          | -3.963 | -2.862 | -2.402 | 0.11        | 2.99                               | 12                     | 5                  | Pass   |
| CH100                                                                | 5500            | -3.959                                          | -3.453 | -3.330 | -1.697 | 0.11        | 3.10                               | 12                     | 5                  | Pass   |
| CH116                                                                | 5580            | -2.703                                          | -2.870 | -2.128 | -1.496 | 0.11        | 3.86                               | 12                     | 5                  | Pass   |
| CH140                                                                | 5700            | -3.217                                          | -2.961 | -1.754 | -1.545 | 0.11        | 3.81                               | 12                     | 5                  | Pass   |
| CH144                                                                | 5720            | -3.555                                          | -3.556 | -2.011 | -1.803 | 0.11        | 3.47                               | 12                     | 5                  | Pass   |
| Channel No.                                                          | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|                                                                      |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH149                                                                | 5745            | 0.868                                           | 0.928  | 1.072  | 0.779  | 0.11        | 7.04                               | 12                     | 24                 | Pass   |
| CH157                                                                | 5785            | 1.364                                           | 1.466  | 1.392  | 1.236  | 0.11        | 7.50                               | 12                     | 24                 | Pass   |
| CH165                                                                | 5825            | 1.335                                           | 1.502  | 1.509  | 1.437  | 0.11        | 7.58                               | 12                     | 24                 | Pass   |

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH38        | 5190            | -0.826                                          | -0.706 | 0.16        | 2.40                               | 9                      | 14                 | Pass   |
| CH46        | 5230            | -0.055                                          | -0.109 | 0.16        | 3.09                               | 9                      | 14                 | Pass   |
| CH54        | 5270            | 0.891                                           | 0.514  | 0.16        | 3.88                               | 9                      | 8                  | Pass   |
| CH62        | 5310            | 1.284                                           | 1.438  | 0.16        | 4.53                               | 9                      | 8                  | Pass   |
| CH102       | 5510            | 1.079                                           | 1.836  | 0.16        | 4.64                               | 9                      | 8                  | Pass   |
| CH110       | 5550            | 1.190                                           | 0.962  | 0.16        | 4.25                               | 9                      | 8                  | Pass   |
| CH134       | 5670            | 3.442                                           | 3.880  | 0.16        | 6.84                               | 9                      | 8                  | Pass   |
| CH142       | 5710            | 3.770                                           | 3.851  | 0.16        | 6.98                               | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH151       | 5755            | 0.153                                           | -0.129 | 0.16        | 3.18                               | 9                      | 27                 | Pass   |
| CH159       | 5795            | 0.181                                           | 0.122  | 0.16        | 3.32                               | 9                      | 27                 | Pass   |

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH38        | 5190            | -4.346                                          | -4.258 | -4.055 | -4.554 | 0.16        | 1.88                               | 12                     | 11                 | Pass   |
| CH46        | 5230            | -3.602                                          | -3.512 | -3.848 | -3.754 | 0.16        | 2.50                               | 12                     | 11                 | Pass   |
| CH54        | 5270            | -5.611                                          | -6.517 | -5.184 | -5.380 | 0.16        | 0.70                               | 12                     | 5                  | Pass   |
| CH62        | 5310            | -6.032                                          | -6.561 | -5.834 | -4.964 | 0.16        | 0.53                               | 12                     | 5                  | Pass   |
| CH102       | 5510            | -5.122                                          | -5.679 | -4.711 | -4.294 | 0.16        | 1.42                               | 12                     | 5                  | Pass   |
| CH110       | 5550            | -5.596                                          | -5.511 | -4.544 | -4.196 | 0.16        | 1.42                               | 12                     | 5                  | Pass   |
| CH134       | 5670            | -5.220                                          | -5.437 | -3.936 | -5.114 | 0.16        | 1.45                               | 12                     | 5                  | Pass   |
| CH142       | 5710            | -5.034                                          | -5.859 | -4.532 | -5.345 | 0.16        | 1.17                               | 12                     | 5                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH151       | 5755            | -3.743                                          | -3.527 | -4.054 | -3.828 | 0.16        | 2.40                               | 12                     | 24                 | Pass   |
| CH159       | 5795            | -3.313                                          | -3.284 | -3.354 | -3.336 | 0.16        | 2.86                               | 12                     | 24                 | Pass   |

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH42        | 5210            | -3.054                                          | -3.345 | 0.27        | 0.08                               | 9                      | 14                 | Pass   |
| CH58        | 5290            | -2.729                                          | -3.156 | 0.27        | 0.34                               | 9                      | 8                  | Pass   |
| CH106       | 5530            | -4.941                                          | -4.717 | 0.27        | -1.55                              | 9                      | 8                  | Pass   |
| CH138       | 5690            | -3.260                                          | -3.758 | 0.27        | -0.22                              | 9                      | 8                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   |             |                                    |                        |                    |        |
| CH155       | 5775            | -2.522                                          | -2.449 | 0.27        | 0.53                               | 9                      | 27                 | Pass   |

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1+2+3**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |        |        |        | Duty factor | Total Measurement PSD (dBm/MHz)    | Directional Gain (dBi) | Limit (dBm/MHz)    | Result |
|-------------|-----------------|-------------------------------------------------|--------|--------|--------|-------------|------------------------------------|------------------------|--------------------|--------|
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH42        | 5210            | -6.258                                          | -6.060 | -6.119 | -6.258 | 0.27        | 0.12                               | 12                     | 11                 | Pass   |
| CH58        | 5290            | -8.517                                          | -9.112 | -8.024 | -8.393 | 0.27        | -1.83                              | 12                     | 5                  | Pass   |
| CH106       | 5530            | -7.800                                          | -8.086 | -7.775 | -6.919 | 0.27        | -0.96                              | 12                     | 5                  | Pass   |
| CH138       | 5690            | -8.234                                          | -8.475 | -7.697 | -6.876 | 0.27        | -1.12                              | 12                     | 5                  | Pass   |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |        |        |        | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/500KHz) | Result |
|             |                 | Ant0                                            | Ant1   | Ant2   | Ant3   |             |                                    |                        |                    |        |
| CH155       | 5775            | -5.550                                          | -5.683 | -5.445 | -5.347 | 0.27        | 0.79                               | 12                     | 24                 | Pass   |

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |        | Duty factor | Total Measurement PSD (dBm/MHz) | Directional Gain (dBi) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|--------|-------------|---------------------------------|------------------------|-----------------|--------|
|             |                 | Ant0                                         | Ant1   |             |                                 |                        |                 |        |
| CH50        | 5250            | -6.243                                       | -6.239 | 0.49        | -2.74                           | 9                      | 14              | Pass   |
| CH144       | 5570            | -8.459                                       | -8.686 | 0.49        | -5.07                           | 9                      | 14              | Pass   |

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1+2+3**

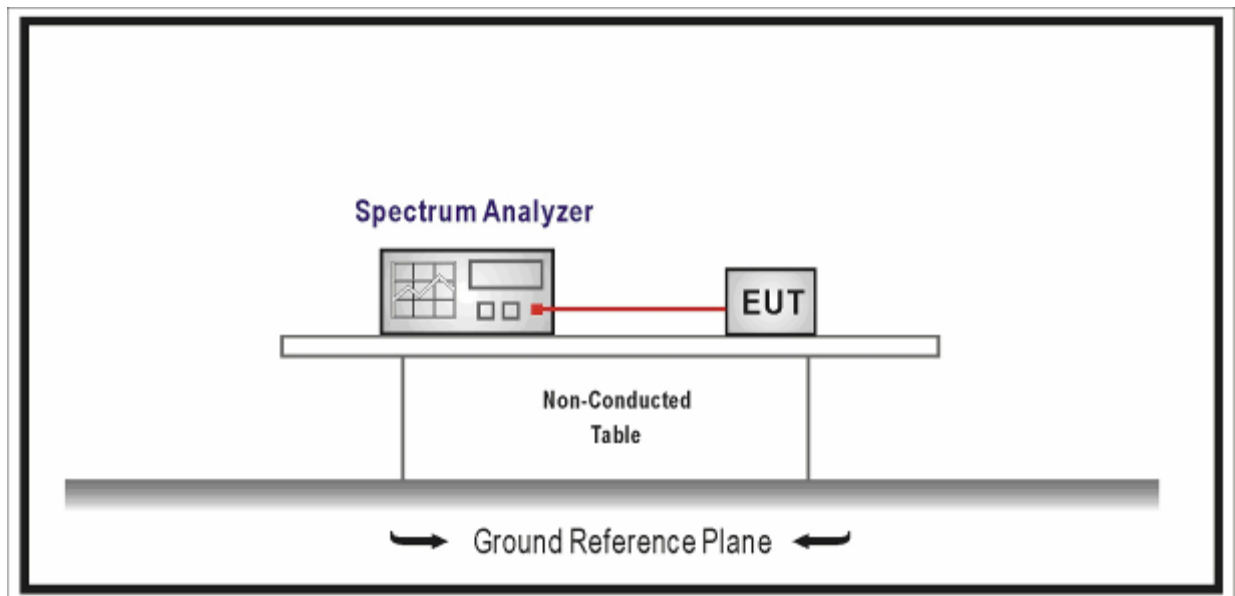
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |         |         |         | Duty factor | Total Measurement PSD (dBm/500kHz) | Directional Gain (dBi) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|---------|---------|---------|-------------|------------------------------------|------------------------|-----------------|--------|
|             |                 | Ant0                                         | Ant1    | Ant2    | Ant3    |             |                                    |                        |                 |        |
| CH50        | 5250            | -10.850                                      | -11.666 | -11.368 | -11.283 | 0.49        | -4.77                              | 12                     | 11              | Pass   |
| CH144       | 5570            | -11.243                                      | -11.475 | -10.527 | -10.993 | 0.49        | -4.53                              | 12                     | 11              | Pass   |

## 9. Band Edge

### 9.1. Test Equipment

| Band Edge / TR-8                                                                                                                          |              |          |            |            |               |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|------------|------------|---------------|
| Instrument                                                                                                                                | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer                                                                                                                         | Agilent      | N9010A   | MY48030494 | 2018.02.04 | 2019.02.03    |
| EXA Spectrum Analyzer                                                                                                                     | Keysight     | N9010A   | MY55370495 | 2019.04.09 | 2019.04.08    |
| MXA Signal Analyzer                                                                                                                       | Keysight     | N9020A   | MY56060147 | 2019.04.09 | 2019.04.08    |
| Temperature/Humidity Meter                                                                                                                | zhichen      | ZC1-2    | TR8-TH     | 2018.04.10 | 2019.04.09    |
| Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards. |              |          |            |            |               |

### 9.2. Test Setup



### 9.3. Limit

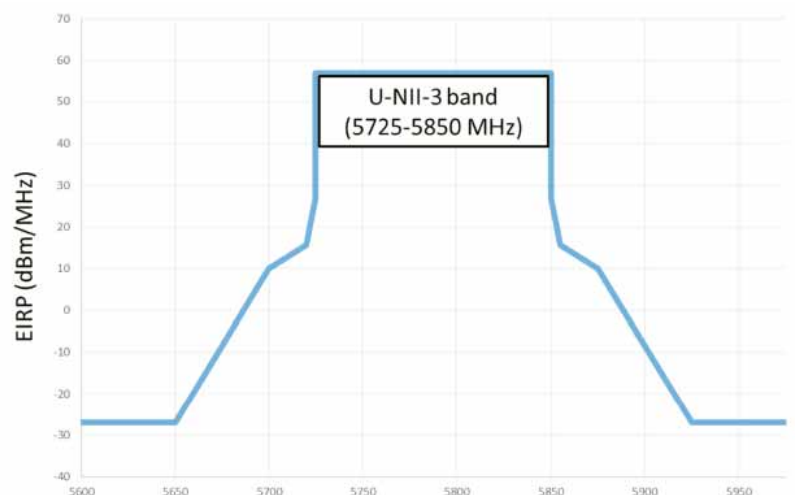
| FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit) |              |                |
|--------------------------------------------------------------------------|--------------|----------------|
| Frequency (MHz)                                                          | Distance (m) | Level (dBμV/m) |
| 0.009-0.490                                                              | 300          | 2400/F(kHz)    |
| 0.490-1.705                                                              | 30           | 24000/F(kHz)   |
| 1.705-30.0                                                               | 30           | 30             |
| 30-88                                                                    | 3            | 100**          |
| 88-216                                                                   | 3            | 150**          |
| 216-960                                                                  | 3            | 200**          |
| Above 960                                                                | 3            | 500            |

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).



| FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band) |                       |                 |                 |
|----------------------------------------------------------|-----------------------|-----------------|-----------------|
| Frequency (MHz)                                          | Frequency (MHz)       | Frequency (MHz) | Frequency (MHz) |
| 0.090 – 0.110                                            | 16.42 – 16.423        | 399.9 – 410     | 4.5 – 5.15      |
| 0.495 – 0.505                                            | 16.69475 – 16.69525   | 608 – 614       | 5.35 – 5.46     |
| 2.1735 – 2.1905                                          | 16.80425 – 16.80475   | 960 – 1240      | 7.25 – 7.75     |
| 4.125 – 4.128                                            | 25.5 – 25.67          | 1300 – 1427     | 8.025 – 8.5     |
| 4.17725 – 4.17775                                        | 37.5 – 38.25          | 1435 – 1626.5   | 9.0 – 9.2       |
| 4.20725 – 4.20775                                        | 73 – 74.6             | 1645.5 – 1646.5 | 9.3 – 9.5       |
| 6.215 – 6.218                                            | 74.8 – 75.2           | 1660 – 1710     | 10.6 – 12.7     |
| 6.26775 – 6.26825                                        | 108 – 121.94          | 1718.8 – 1722.2 | 13.25 – 13.4    |
| 6.31175 – 6.31225                                        | 123 – 138             | 2200 – 2300     | 14.47 – 14.5    |
| 8.291 – 8.294                                            | 149.9 – 150.05        | 2310 – 2390     | 15.35 – 16.2    |
| 8.362 – 8.366                                            | 156.52475 – 156.52525 | 2483.5 – 2500   | 17.7 – 21.4     |
| 8.37625 – 8.38675                                        | 156.7 – 156.9         | 2690 – 2900     | 22.01 – 23.12   |
| 8.81425 – 8.81475                                        | 162.0125 – 167.17     | 3260 – 3267     | 23.6 – 24.0     |
| 12.29 – 12.293                                           | 167.72 – 173.2        | 3332 – 3339     | 31.2 – 31.8     |
| 12.51975 – 12.52025                                      | 240 – 285             | 3345.8 – 3358   | 36.43 – 36.5    |
| 12.57675 – 12.57725                                      | 322 – 335.4           | 3600 – 4400     |                 |
| 13.36 – 13.41                                            |                       |                 |                 |

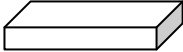
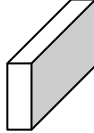
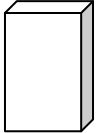
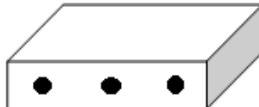
| FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit) |                                                                                                                         |                                                |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Operating Frequency Band (MHz)                                                   | EIRP Limit (dBm/MHz)                                                                                                    | Equivalent Field Strength at 3m (dB $\mu$ V/m) |
| 5150 - 5250                                                                      | -27                                                                                                                     | 68.3                                           |
| 5250 - 5350                                                                      | -27                                                                                                                     | 68.3                                           |
| 5470 - 5725                                                                      | -27                                                                                                                     | 68.3                                           |
| Operating Frequency Band (MHz)                                                   | EIRP Limit (dBm/MHz)                                                                                                    |                                                |
| 5725 - 5850                                                                      |  <p>U-NII-3 band (5725-5850 MHz)</p> |                                                |

## 9.4. Test Procedure

| Test Method                         |                                     |                                     |                                     |             |                                                                                                  |                                                                                                    |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|                                     | References Rule                     |                                     |                                     | Chapter     | Description                                                                                      |                                                                                                    |
| <input type="checkbox"/>            | ANSI C63.10                         |                                     |                                     | 12.7.3      | Emissions in non-restricted frequency bands                                                      |                                                                                                    |
| <input checked="" type="checkbox"/> | ANSI C63.10                         |                                     |                                     | 12.7.2      | Emissions in restricted frequency bands                                                          |                                                                                                    |
|                                     | <input type="checkbox"/>            | ANSI C63.10                         |                                     | 12.7.5      | Radiated emission measurements                                                                   |                                                                                                    |
|                                     | <input type="checkbox"/>            | ANSI C63.10                         |                                     | 12.7.6      | Procedure for peak unwanted emissions measurements above 1000 MHz                                |                                                                                                    |
|                                     | <input type="checkbox"/>            | ANSI C63.10                         |                                     | 12.7.7      | Procedures for average unwanted emissions measurements above 1000 MHz                            |                                                                                                    |
|                                     |                                     | <input type="checkbox"/>            | ANSI C63.10                         | 12.7.7.2    | Method AD (average detection)—primary method                                                     |                                                                                                    |
|                                     |                                     | <input type="checkbox"/>            | ANSI C63.10                         | 12.7.7.3    | Method VB-A (Alternative)                                                                        |                                                                                                    |
|                                     | <input type="checkbox"/>            | ANSI C63.10                         |                                     | 6.4         | Radiated emissions from unlicensed wireless devices below 30 MHz                                 |                                                                                                    |
|                                     | <input type="checkbox"/>            | ANSI C63.10                         |                                     | 6.5         | Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz |                                                                                                    |
|                                     | <input type="checkbox"/>            | ANSI C63.10                         |                                     | 6.6         | Radiated emissions from unlicensed wireless devices above 1 GHz                                  |                                                                                                    |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10                         |                                     | 11.12.2     | Antenna-port conducted measurements                                                              |                                                                                                    |
|                                     |                                     | <input type="checkbox"/>            | ANSI C63.10                         | 11.12.2.3   | Quasi-peak measurement procedure                                                                 |                                                                                                    |
|                                     |                                     | <input checked="" type="checkbox"/> | ANSI C63.10                         | 11.12.2.4   | Peak power measurement procedure                                                                 |                                                                                                    |
|                                     |                                     | <input checked="" type="checkbox"/> | ANSI C63.10                         | 11.12.2.5   | Average power measurement procedures                                                             |                                                                                                    |
|                                     |                                     |                                     | <input type="checkbox"/>            | ANSI C63.10 | 11.12.2.5.1                                                                                      | Trace averaging with continuous EUT transmission at full power                                     |
|                                     |                                     |                                     | <input type="checkbox"/>            | ANSI C63.10 | 11.12.2.5.2                                                                                      | Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction |
|                                     |                                     |                                     | <input checked="" type="checkbox"/> | ANSI C63.10 | 11.12.2.5.3                                                                                      | Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold               |
| <input type="checkbox"/>            | FCC KDB 789033 D02v02r01            |                                     |                                     | G.2         | Unwanted Emissions that fall Outside of the Restricted Bands                                     |                                                                                                    |
| <input type="checkbox"/>            | FCC KDB 789033                      |                                     |                                     | G.1         | Unwanted Emissions in the Restricted Bands                                                       |                                                                                                    |

|  |                          |                             |       |                                                                          |
|--|--------------------------|-----------------------------|-------|--------------------------------------------------------------------------|
|  | D02v02r01                |                             |       |                                                                          |
|  | <input type="checkbox"/> | FCC KDB 789033<br>D02v02r01 | G.4   | Procedure for Unwanted Emissions Measurements below 1000 MHz             |
|  | <input type="checkbox"/> | FCC KDB 789033<br>D02v02r01 | G.5   | Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz     |
|  | <input type="checkbox"/> | FCC KDB 789033<br>D02v02r01 | G.6   | Procedures for Average Unwanted Emissions Measurements above 1000 MHz    |
|  | <input type="checkbox"/> | FCC KDB 789033<br>D02v02r01 | G.6.c | Method AD (Average detection)—primary method                             |
|  | <input type="checkbox"/> | FCC KDB 789033<br>D02v02r01 | G.6.d | Method VB (Averaging using reduced video bandwidth): Alternative method. |

### 9.5.EUT test Axis definition

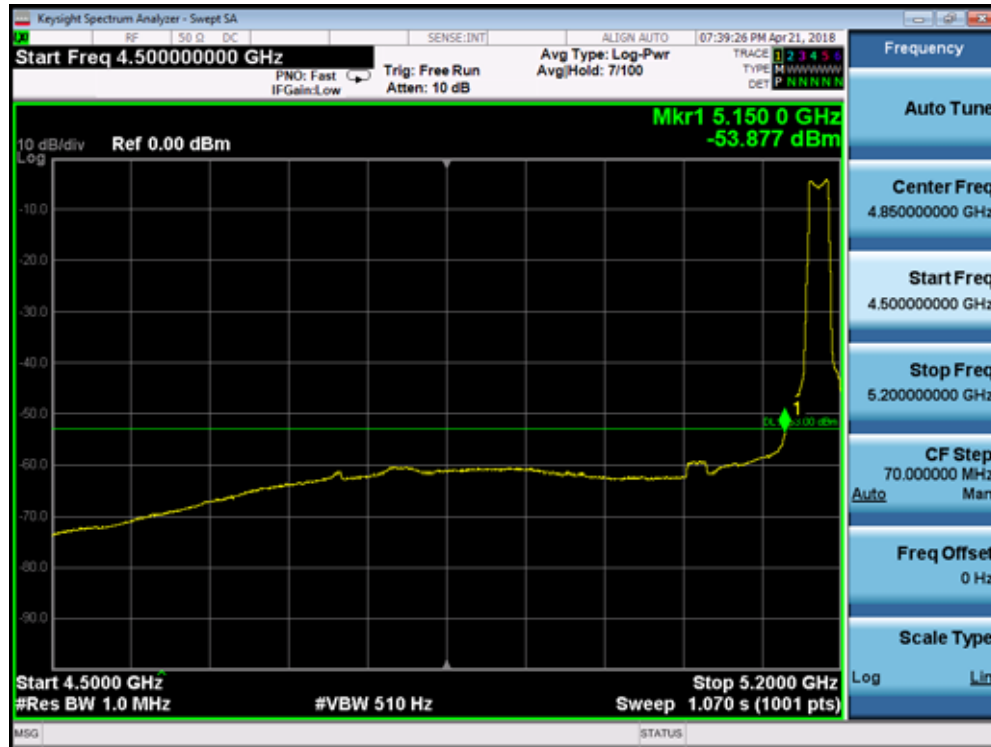
| Item            | Band Edge                                                                            |                                                                                      |                                                                                      |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Device Category | <input checked="" type="checkbox"/>                                                  | Indoor use                                                                           |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Outdoor use                                                                          |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Fix position use                                                                     |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Client use                                                                           |                                                                                      |                                                                                      |
| Test mode       | Mode 1-20                                                                            |                                                                                      |                                                                                      |                                                                                      |
| Test method     | <input type="checkbox"/>                                                             | Radiated                                                                             |                                                                                      |                                                                                      |
|                 |                                                                                      | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |
|                 |                                                                                      |    |  |  |
|                 |                                                                                      | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |
|                 | <input checked="" type="checkbox"/>                                                  | Conducted                                                                            |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              |                                                                                      |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input checked="" type="checkbox"/>                                                  | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |
|                 |  |                                                                                      |                                                                                      |                                                                                      |

## 9.6. Test Result

AV-Ant 0+1 with CDD:

Band I AV Limit=54 dBuV/m-95.2-10lg2 (2tx) -9 (Directional Gain =-53.2dbm

5180MHz by 802.11a:



5320MHz by 802.11a:



5500MHz by 802.11a:



5180MHz by 802.11n(20MHz):



5320MHz by 802.11n(20MHz):





5500MHz by 802.11n(20MHz):



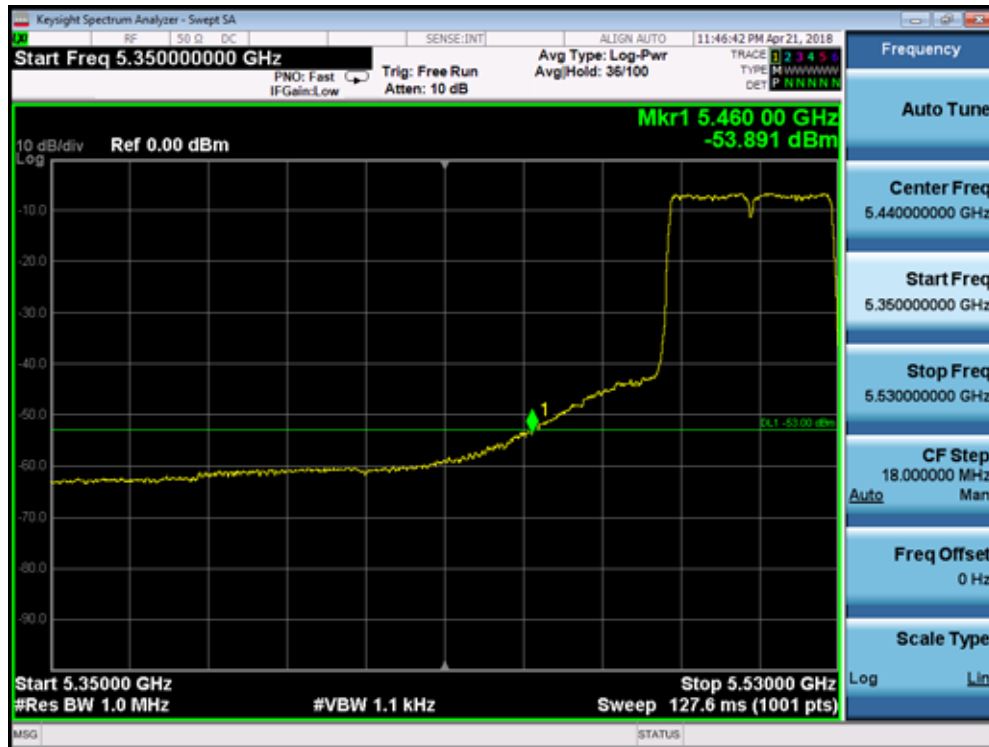
5190MHz by 802.11n(40MHz):



5310MHz by 802.11n(40MHz):



5510MHz by 802.11n(40MHz):



5180MHz by 802.11ac(20MHz):



5320MHz by 802.11ac(20MHz):



5500MHz by 802.11ac(20MHz):



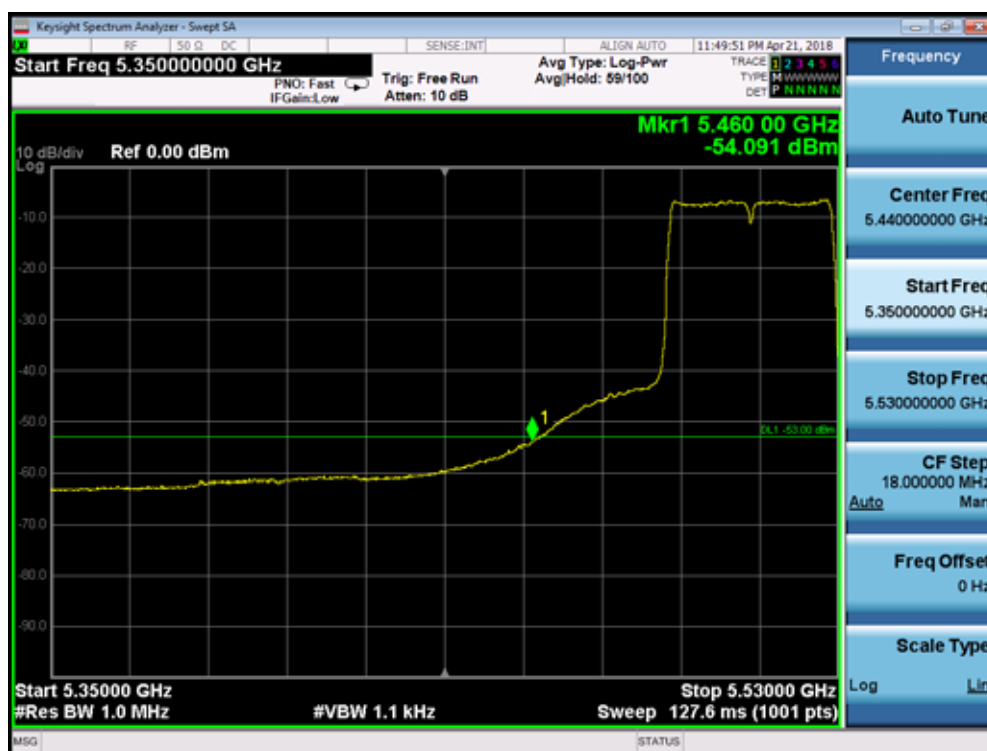
5190MHz by 802.11ac(40MHz):



5310MHz by 802.11ac(40MHz):



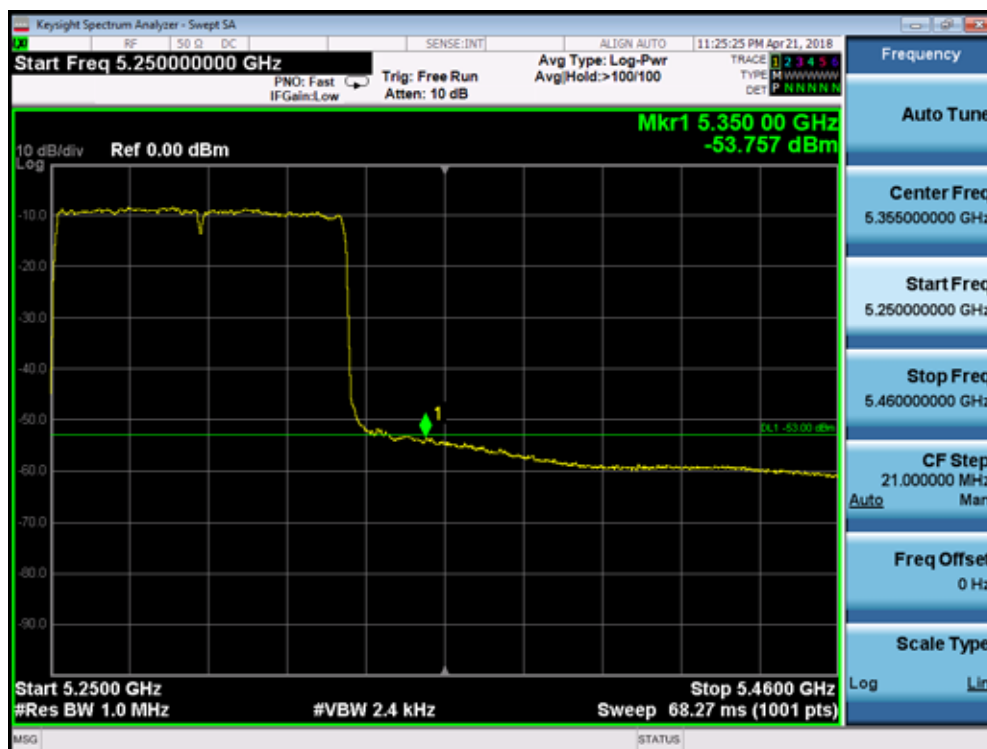
5510MHz by 802.11ac(40MHz):



5210MHz by 802.11ac(80MHz):

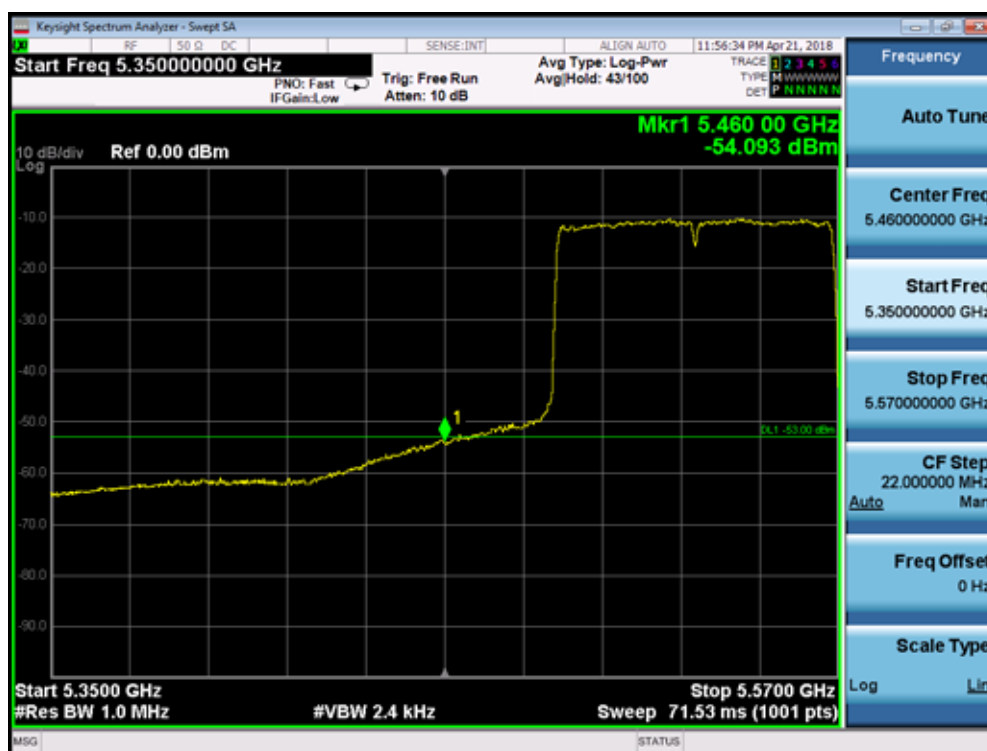


5290MHz by 802.11ac(80MHz):





5530MHz by 802.11ac(80MHz):



5180MHz by 802.11ax(20MHz):



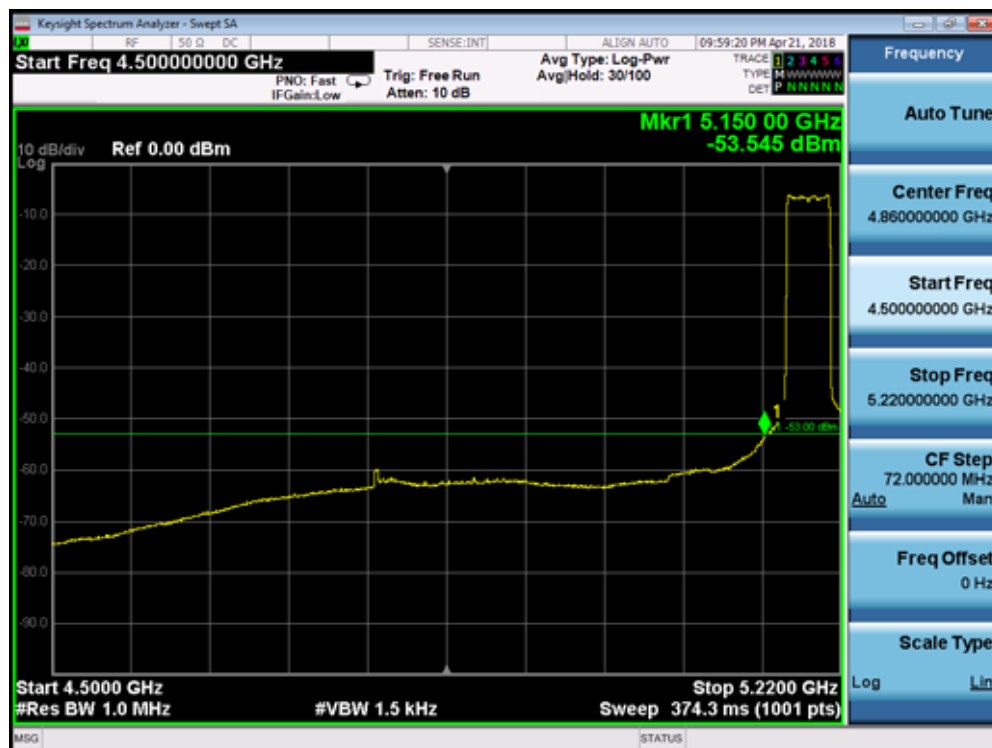
5320MHz by 802.11ax(20MHz):



5500MHz by 802.11ax(20MHz):



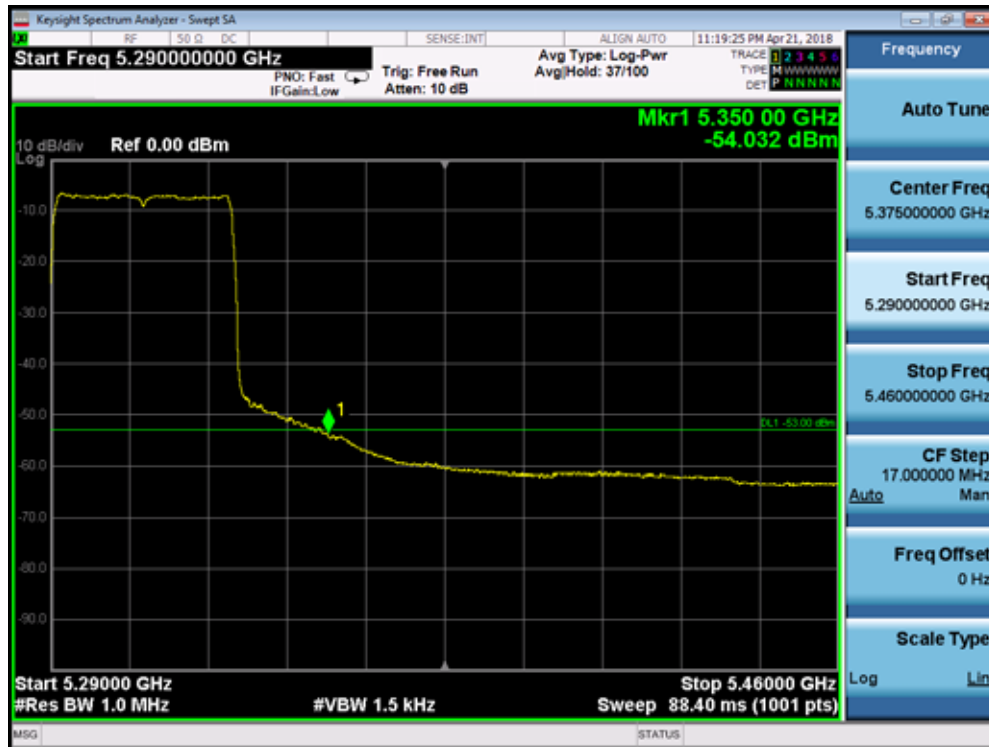
5190MHz by 802.11ax(40MHz):



5310MHz by 802.11ax(40MHz):



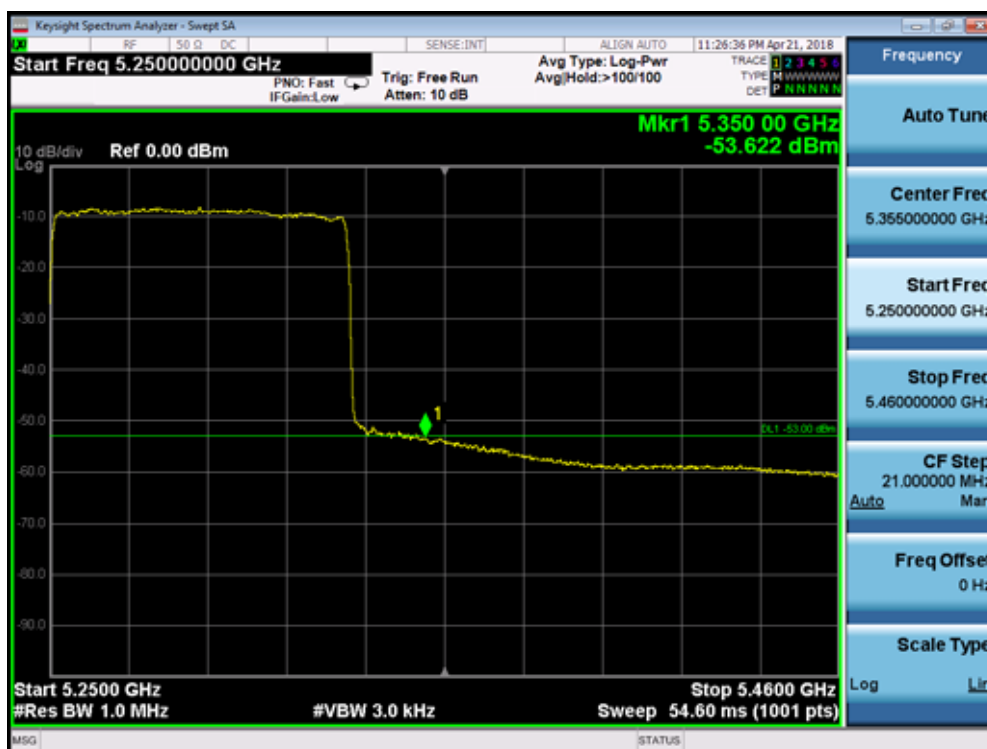
5510MHz by 802.11ax(40MHz):



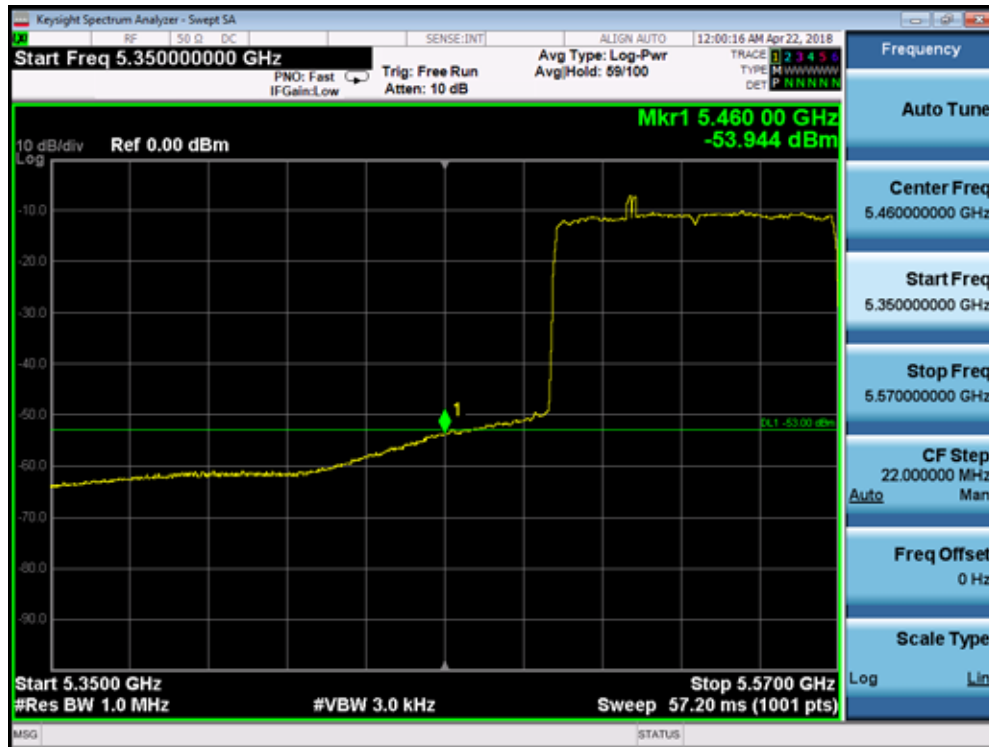
5210MHz by 802.11ax(80MHz):



5290MHz by 802.11ax(80MHz):



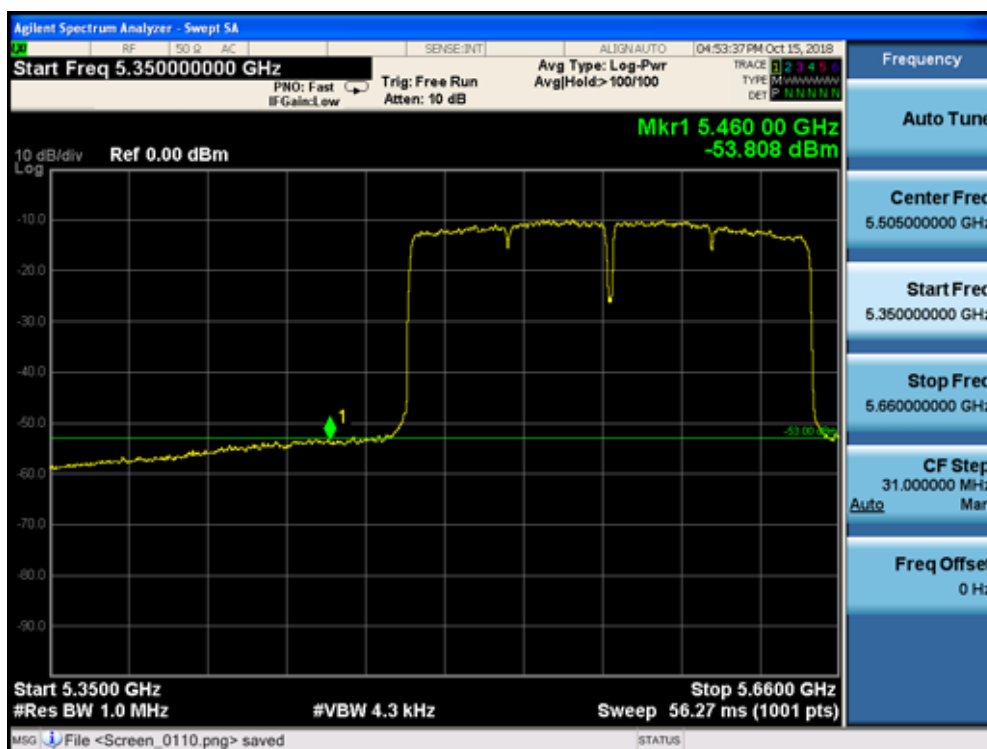
5530MHz by 802.11ax(80MHz):



5250MHz by 802.11ax(160MHz):



5570MHz by 802.11ax(160MHz):

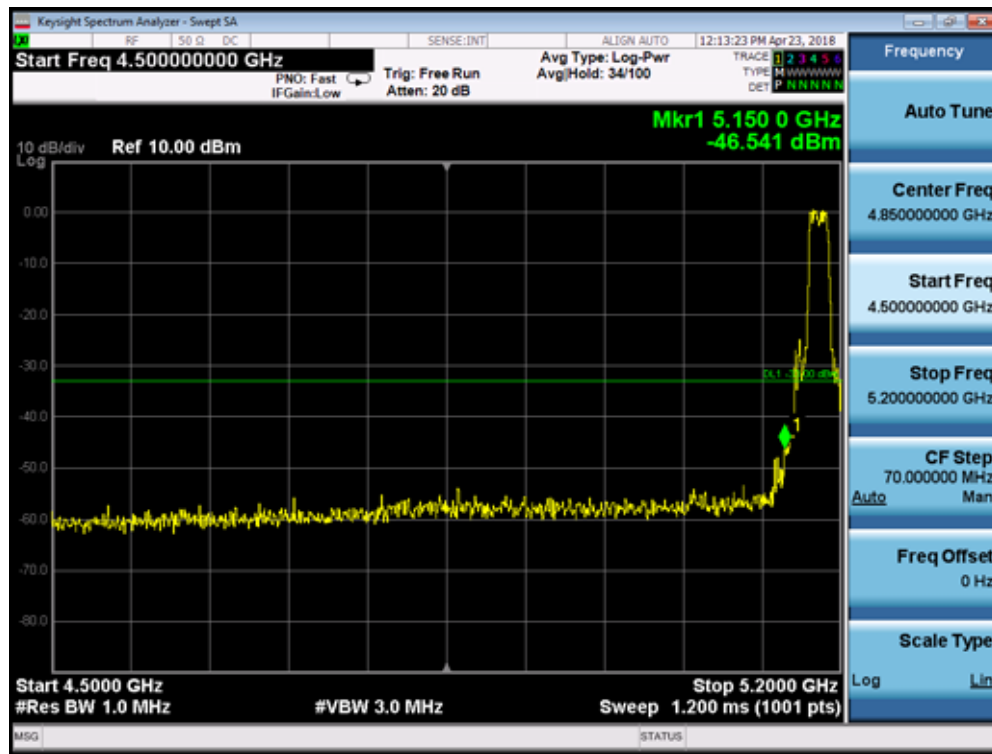




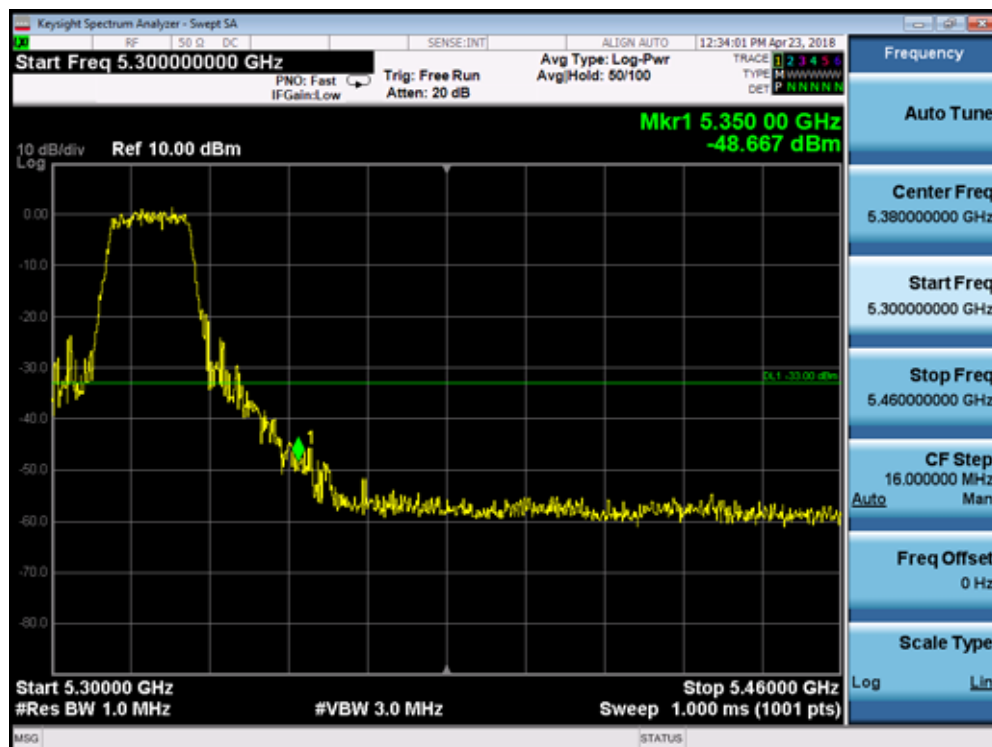
PK-Ant 0+1 with CDD:

Band I PK Limit=74 dBuV/m-95.2-10lg2 (2tx) -9 (Directional Gain) =-33.2dbm

5180MHz by 802.11a:



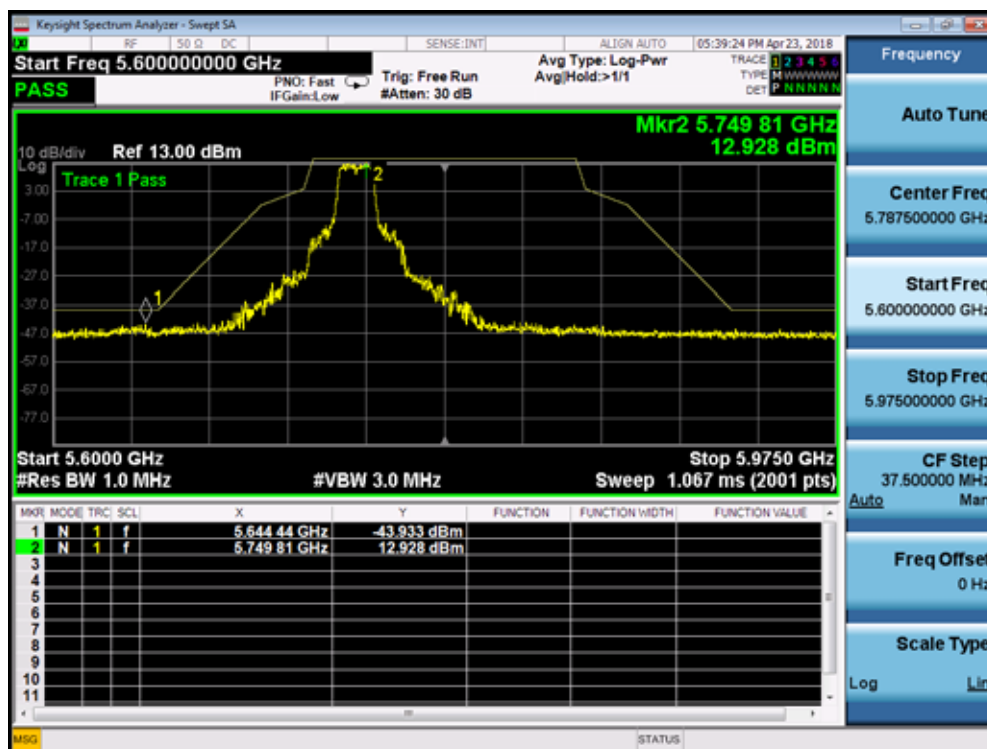
5320MHz by 802.11a:



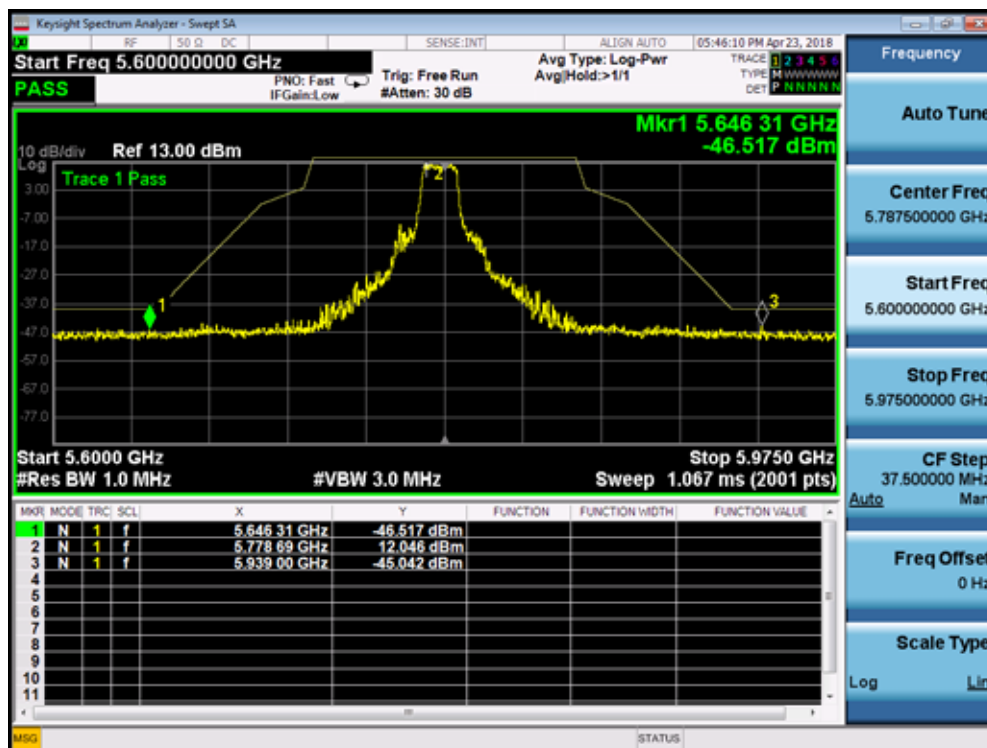
5500MHz by 802.11a:



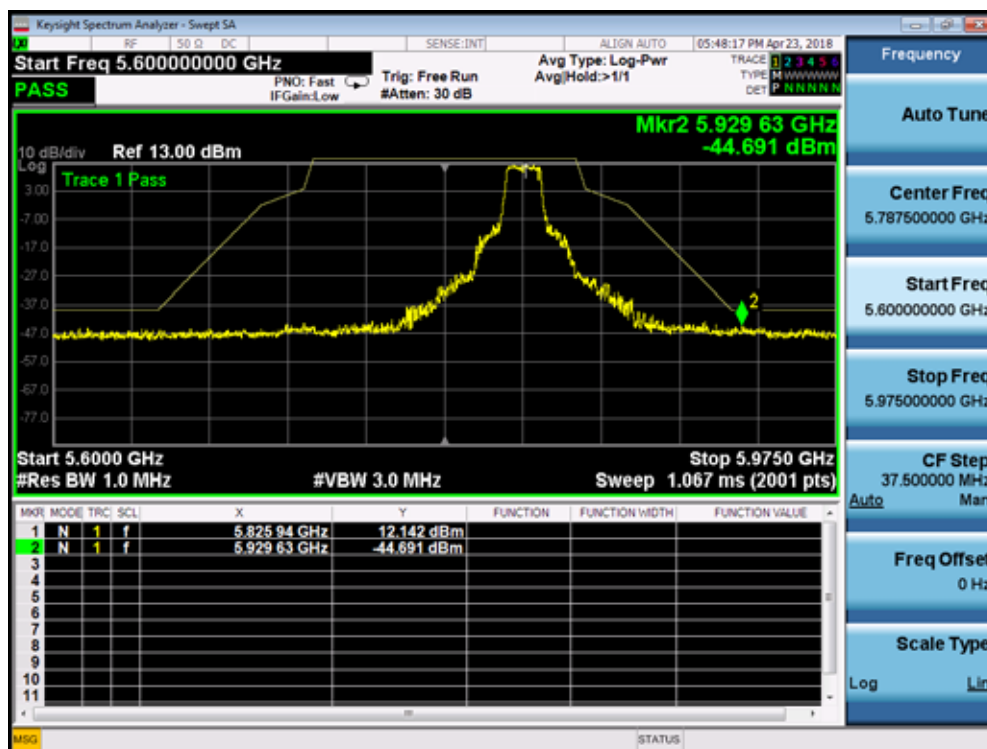
5745MHz by 802.11a:



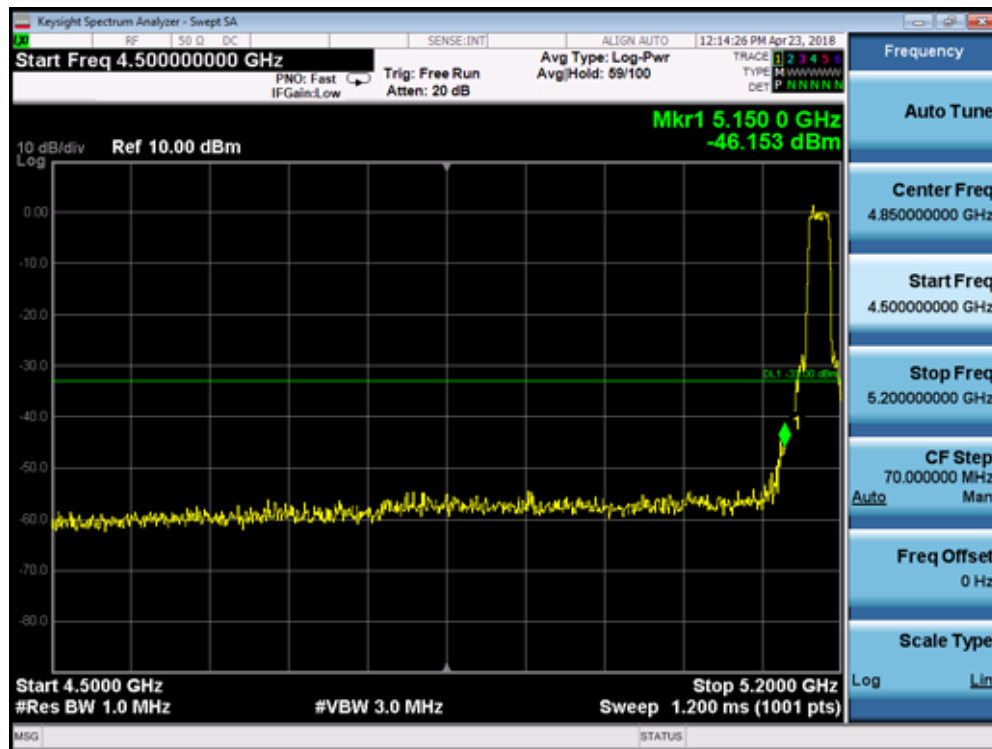
5785MHz by 802.11a:



5825MHz by 802.11a:



5180MHz by 802.11n(20MHz):



5320MHz by 802.11n(20MHz):

