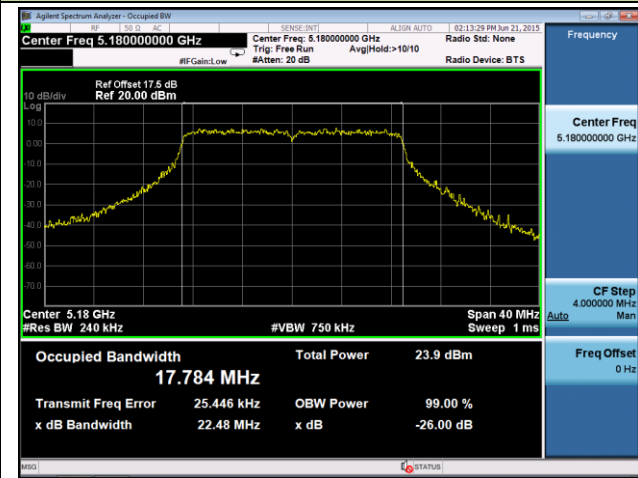
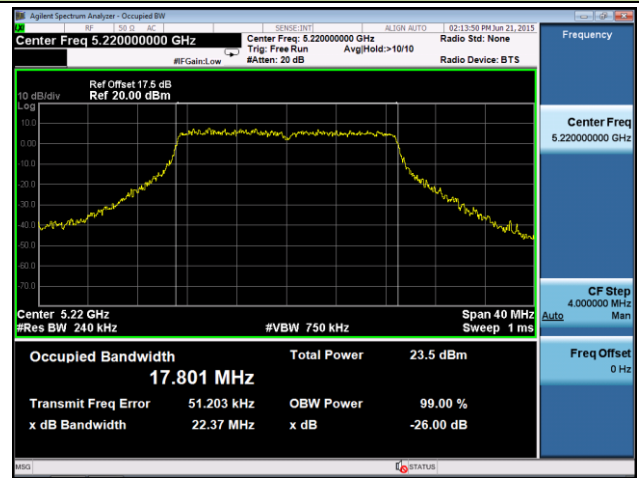
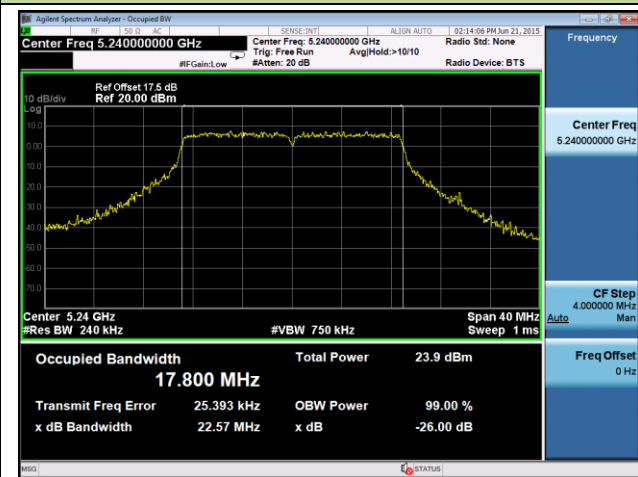
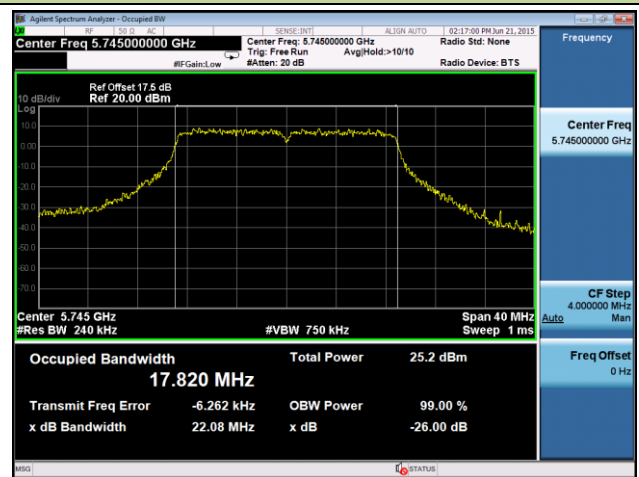
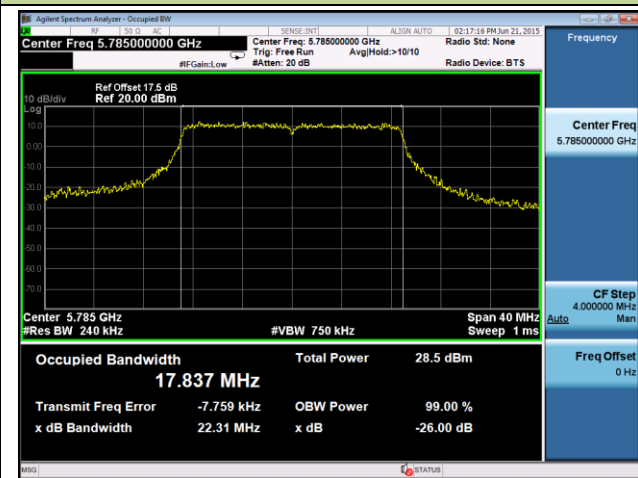
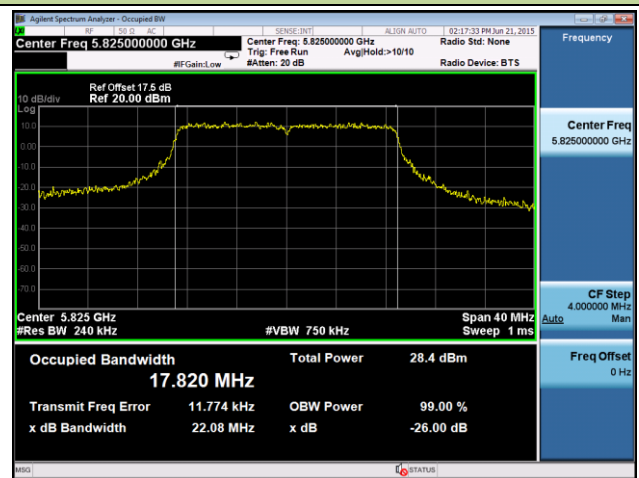
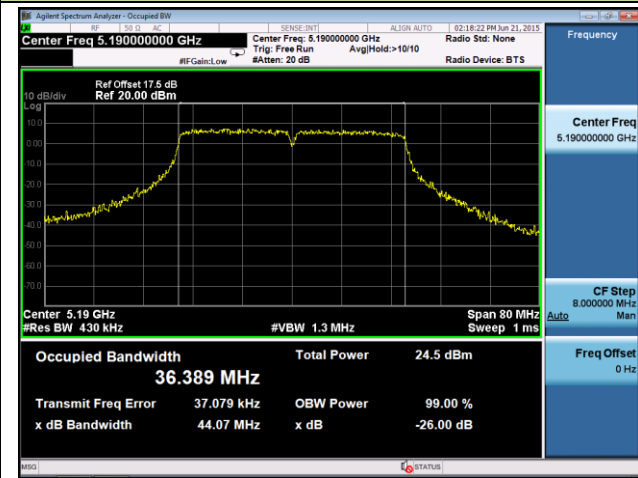
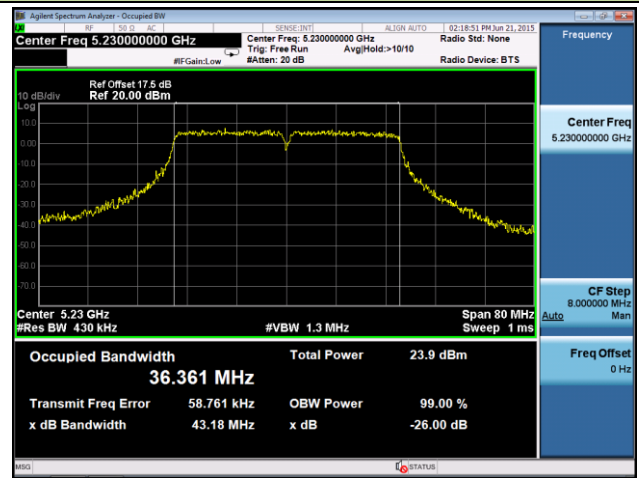
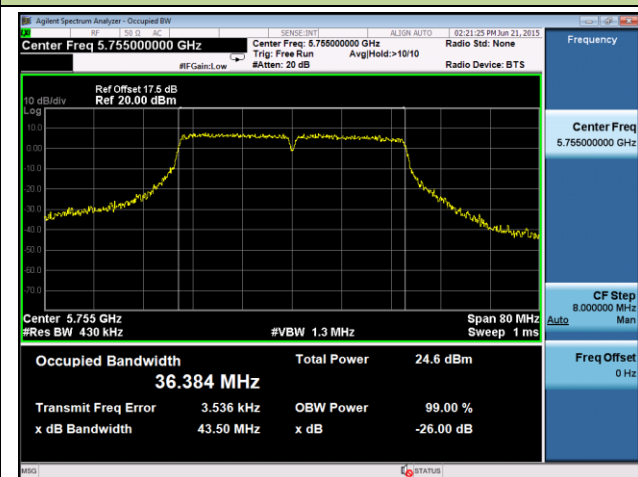
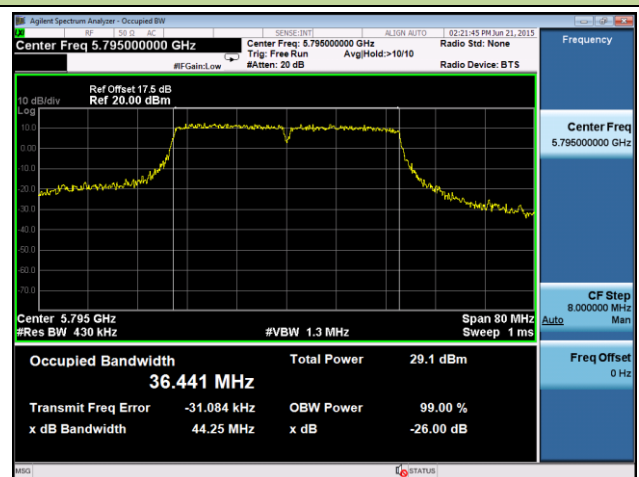
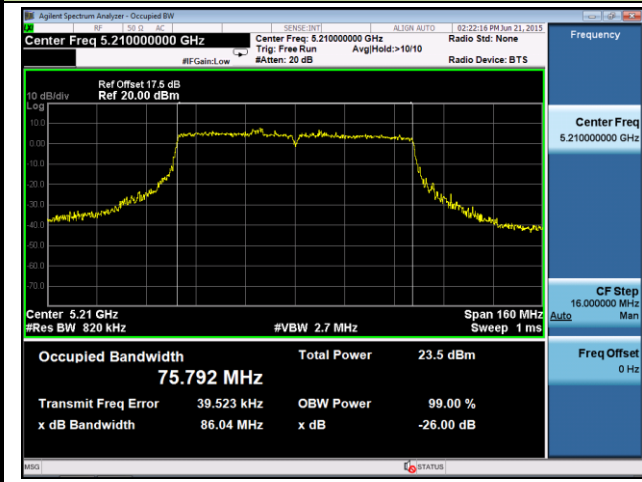


**802.11ac-VHT20 26dB Bandwidth & 99% Bandwidth - Ant 2**
**Channel 36 (5180MHz)**

**Channel 44 (5220MHz)**

**Channel 48 (5240MHz)**

**Channel 149 (5745MHz)**

**Channel 157 (5785MHz)**

**Channel 165 (5825MHz)**


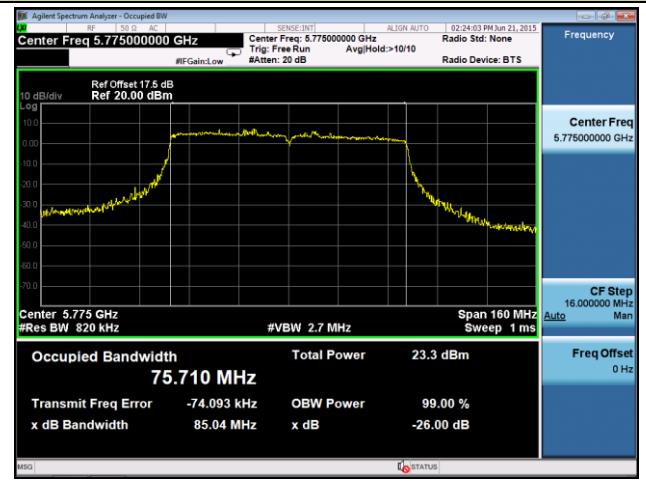
**802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Ant 2**
**Channel 38 (5190MHz)**

**Channel 46 (5230MHz)**

**Channel 151 (5755MHz)**

**Channel 159 (5795MHz)**


**802.11ac-VHT80 26dB Bandwidth & 99% Bandwidth - Ant 2**

**Channel 42 (5210MHz)**



**Channel 155 (5755MHz)**



### 7.3. 6dB Bandwidth Measurement

#### 7.3.1. Test Limit

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

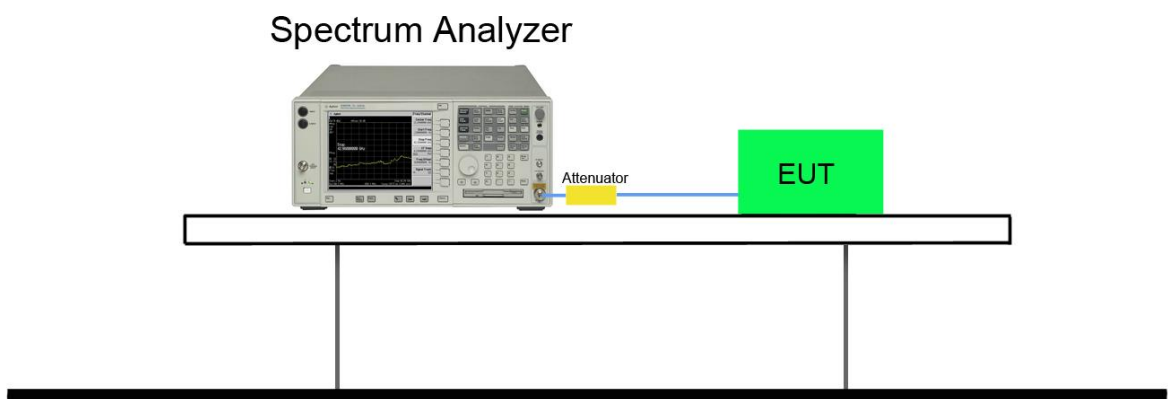
#### 7.3.2. Test Procedure used

KDB 789033 D02v01 – Section C.2

#### 7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 7.3.4. Test Setup



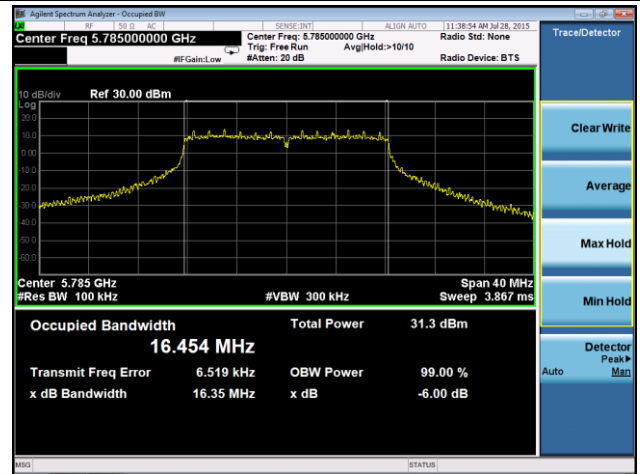
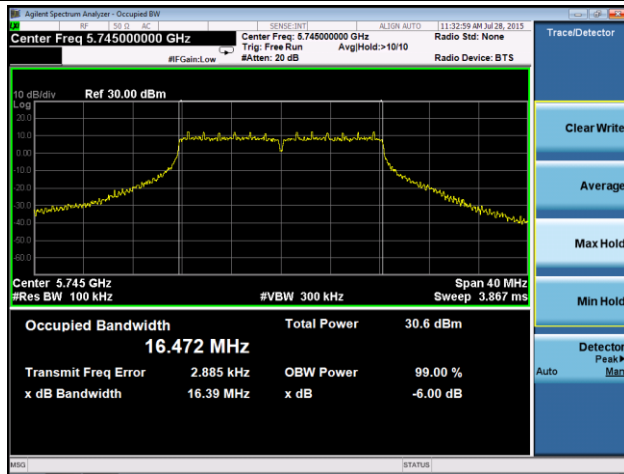
### 7.3.5. Test Result

| Test Mode      | Data Rate (Mbps) | Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) | Result |
|----------------|------------------|-------------|-----------------|---------------------|-------------|--------|
| <b>Ant 1</b>   |                  |             |                 |                     |             |        |
| 802.11a        | 6                | 149         | 5745            | 16.39               | ≥ 0.5       | Pass   |
| 802.11a        | 6                | 157         | 5785            | 16.35               | ≥ 0.5       | Pass   |
| 802.11a        | 6                | 165         | 5825            | 16.38               | ≥ 0.5       | Pass   |
| 802.11n-HT20   | 6.5              | 149         | 5745            | 17.24               | ≥ 0.5       | Pass   |
| 802.11n-HT20   | 6.5              | 157         | 5785            | 17.58               | ≥ 0.5       | Pass   |
| 802.11n-HT20   | 6.5              | 165         | 5825            | 17.61               | ≥ 0.5       | Pass   |
| 802.11n-HT40   | 13.5             | 151         | 5755            | 35.96               | ≥ 0.5       | Pass   |
| 802.11n-HT40   | 13.5             | 159         | 5795            | 36.04               | ≥ 0.5       | Pass   |
| 802.11ac-VHT20 | 6.5              | 149         | 5745            | 17.63               | ≥ 0.5       | Pass   |
| 802.11ac-VHT20 | 6.5              | 157         | 5785            | 17.60               | ≥ 0.5       | Pass   |
| 802.11ac-VHT20 | 6.5              | 165         | 5825            | 17.59               | ≥ 0.5       | Pass   |
| 802.11ac-VHT40 | 13.5             | 151         | 5755            | 36.08               | ≥ 0.5       | Pass   |
| 802.11ac-VHT40 | 13.5             | 159         | 5795            | 35.87               | ≥ 0.5       | Pass   |
| 802.11ac-VHT80 | 29.3             | 155         | 5775            | 74.79               | ≥ 0.5       | Pass   |
| <b>Ant 2</b>   |                  |             |                 |                     |             |        |
| 802.11a        | 6                | 149         | 5745            | 16.39               | ≥ 0.5       | Pass   |
| 802.11a        | 6                | 157         | 5785            | 16.36               | ≥ 0.5       | Pass   |
| 802.11a        | 6                | 165         | 5825            | 16.40               | ≥ 0.5       | Pass   |
| 802.11n-HT20   | 6.5              | 149         | 5745            | 17.54               | ≥ 0.5       | Pass   |
| 802.11n-HT20   | 6.5              | 157         | 5785            | 17.61               | ≥ 0.5       | Pass   |
| 802.11n-HT20   | 6.5              | 165         | 5825            | 17.60               | ≥ 0.5       | Pass   |
| 802.11n-HT40   | 13.5             | 151         | 5755            | 35.59               | ≥ 0.5       | Pass   |
| 802.11n-HT40   | 13.5             | 159         | 5795            | 35.83               | ≥ 0.5       | Pass   |
| 802.11ac-VHT20 | 6.5              | 149         | 5745            | 17.53               | ≥ 0.5       | Pass   |
| 802.11ac-VHT20 | 6.5              | 157         | 5785            | 17.59               | ≥ 0.5       | Pass   |
| 802.11ac-VHT20 | 6.5              | 165         | 5825            | 17.34               | ≥ 0.5       | Pass   |
| 802.11ac-VHT40 | 13.5             | 151         | 5755            | 36.11               | ≥ 0.5       | Pass   |
| 802.11ac-VHT40 | 13.5             | 159         | 5795            | 35.93               | ≥ 0.5       | Pass   |
| 802.11ac-VHT80 | 29.3             | 155         | 5775            | 75.68               | ≥ 0.5       | Pass   |

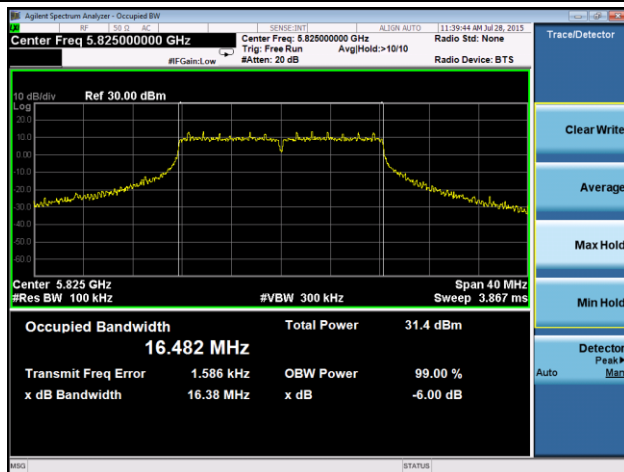
802.11a 6dB Bandwidth - Ant 1

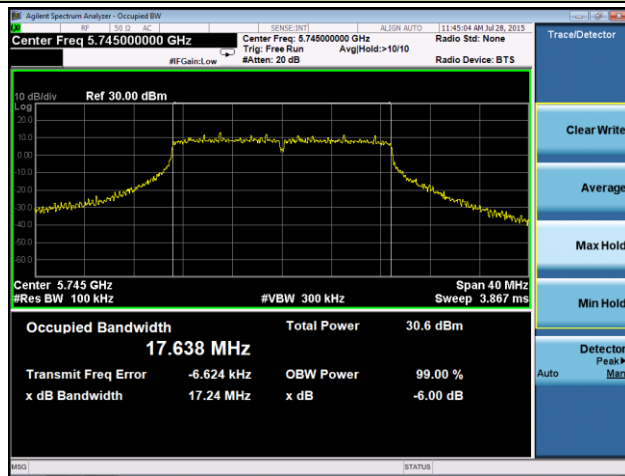
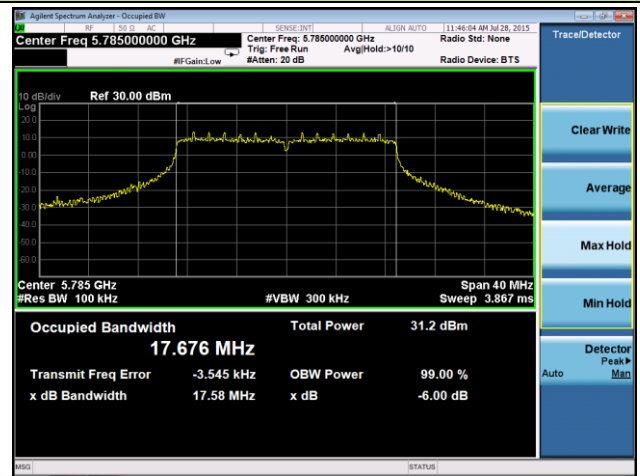
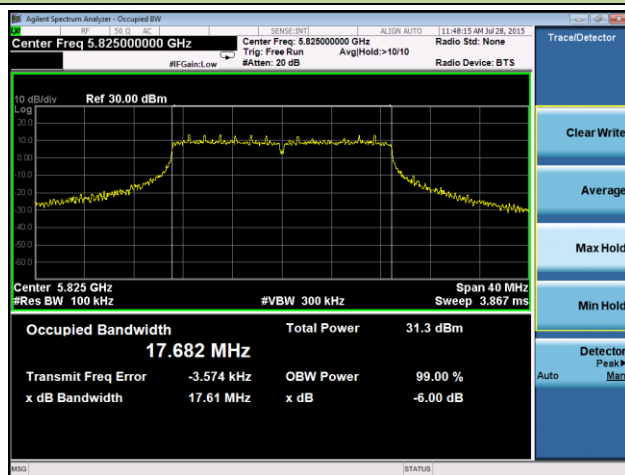
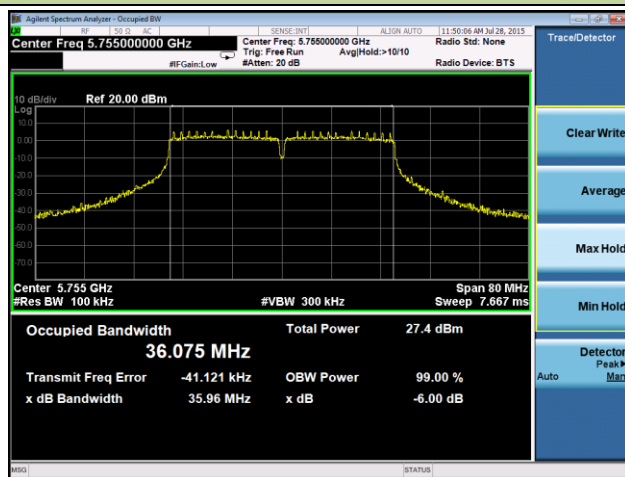
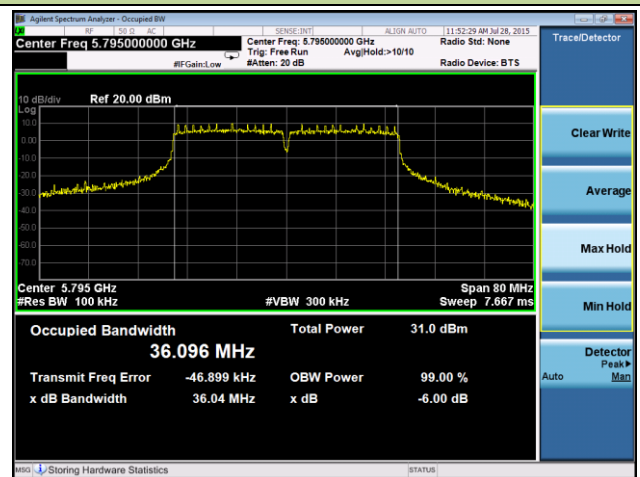
Channel 149 (5745MHz)

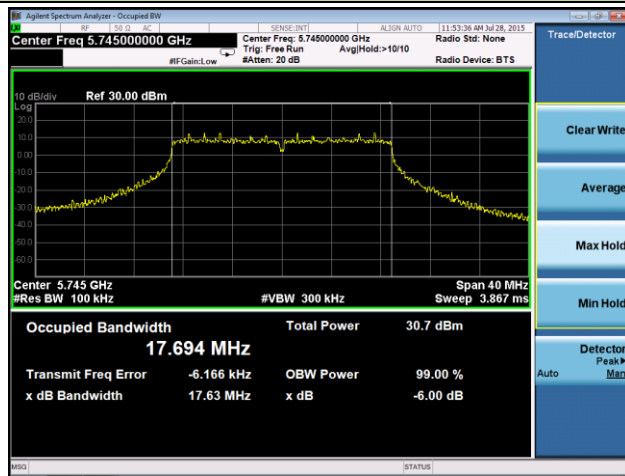
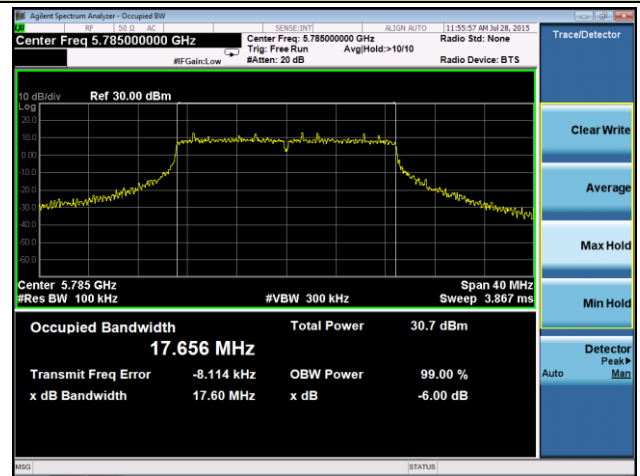
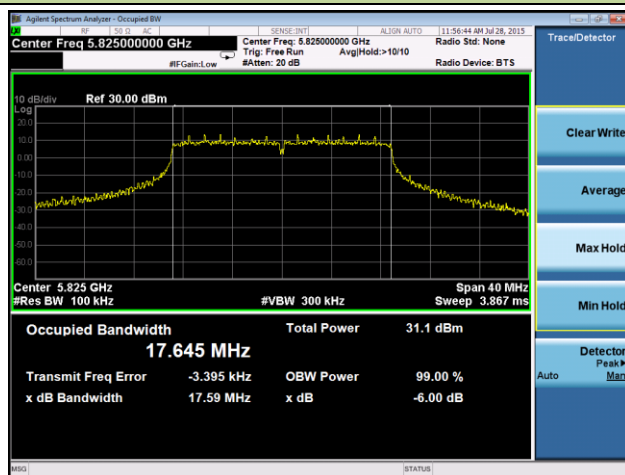
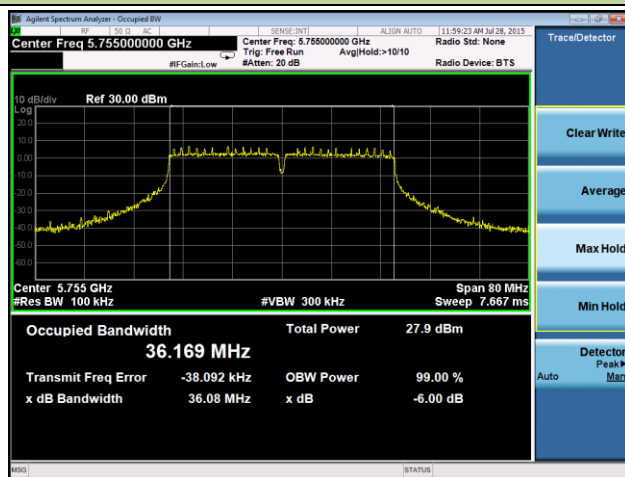
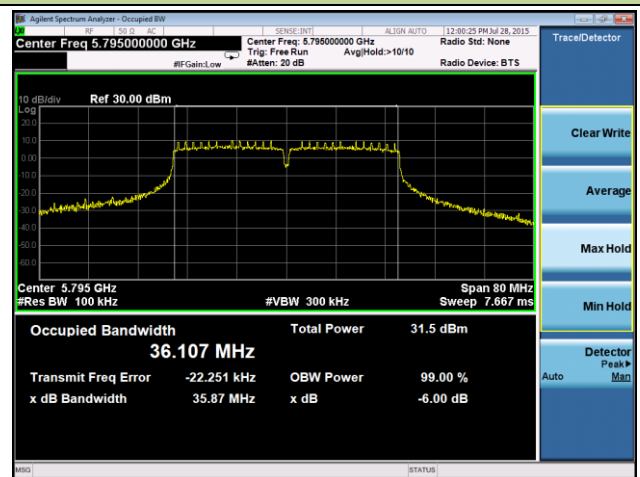
Channel 157 (5785MHz)



Channel 165 (5825MHz)



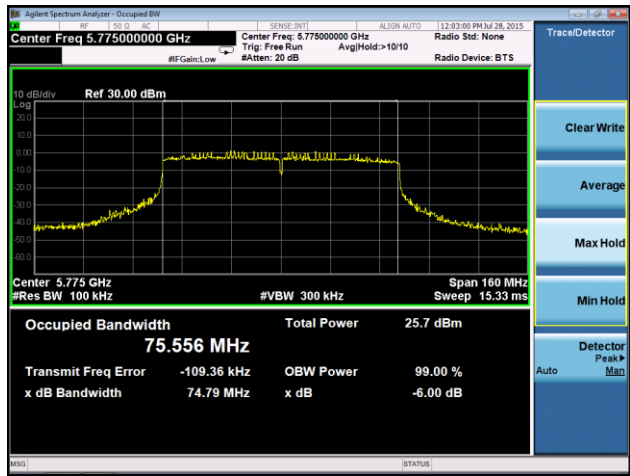
**802.11n-HT20 6dB Bandwidth - Ant 1**
**Channel 149 (5745MHz)**

**Channel 157 (5785MHz)**

**Channel 165 (5825MHz)**

**802.11n-HT40 6dB Bandwidth - Ant 1**
**Channel 151 (5755MHz)**

**Channel 159 (5795MHz)**


**802.11ac-VHT20 6dB Bandwidth - Ant 1**
**Channel 149 (5745MHz)**

**Channel 157 (5785MHz)**

**Channel 165 (5825MHz)**

**802.11ac-VHT40 6dB Bandwidth - Ant 1**
**Channel 151 (5755MHz)**

**Channel 159 (5795MHz)**




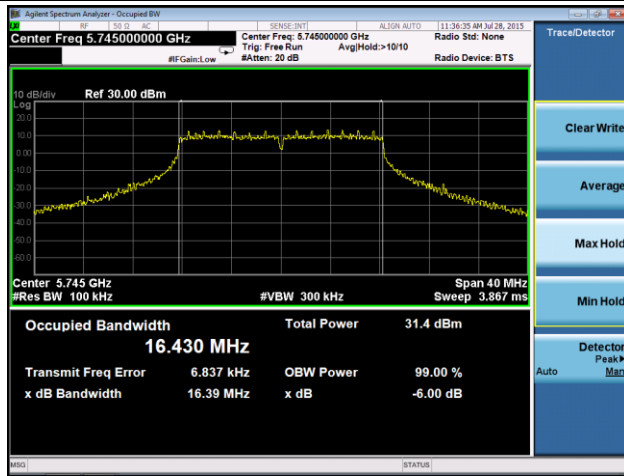
802.11ac-VHT80 6dB Bandwidth - Ant 1

Channel 155 (5775MHz)

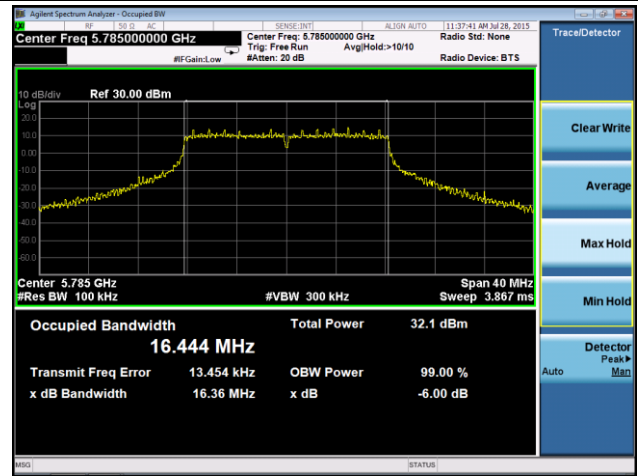


802.11a 6dB Bandwidth - Ant 2

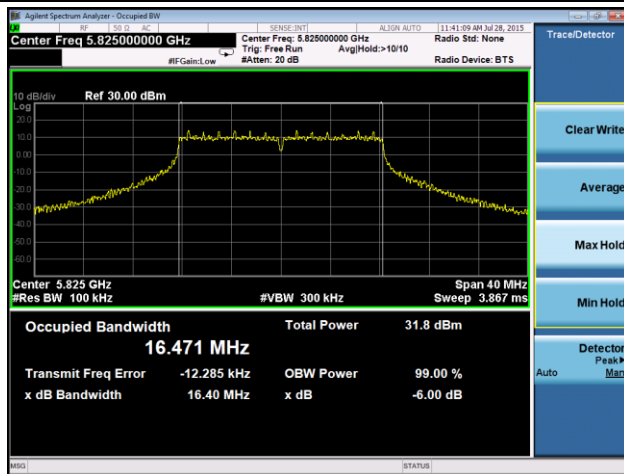
Channel 149 (5745MHz)

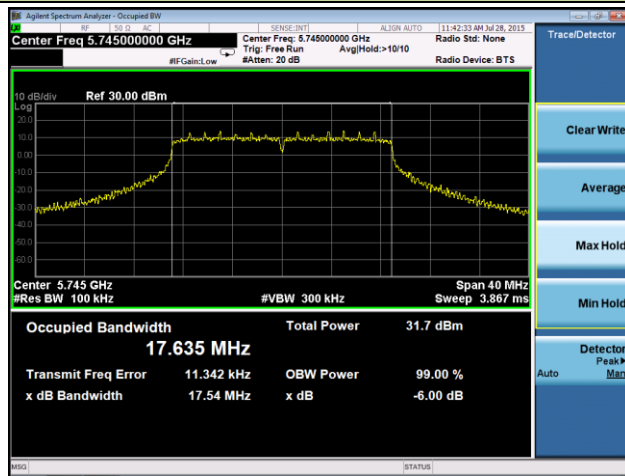
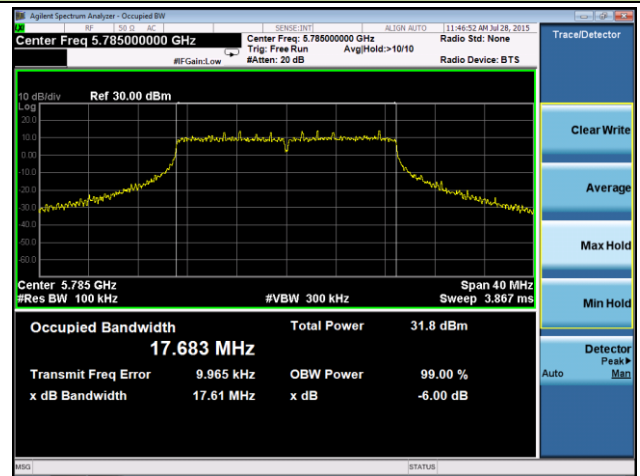
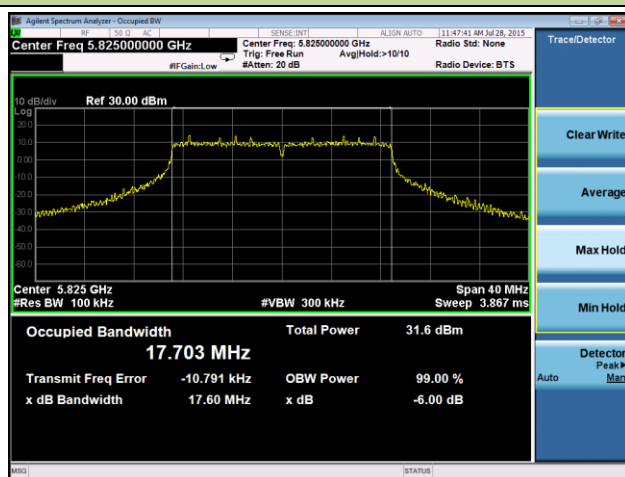
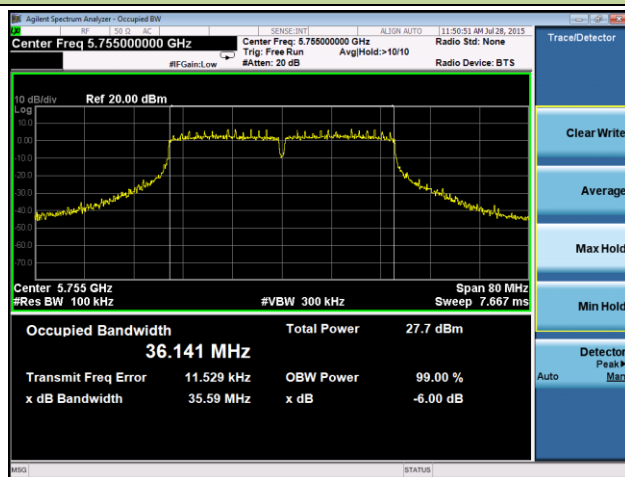
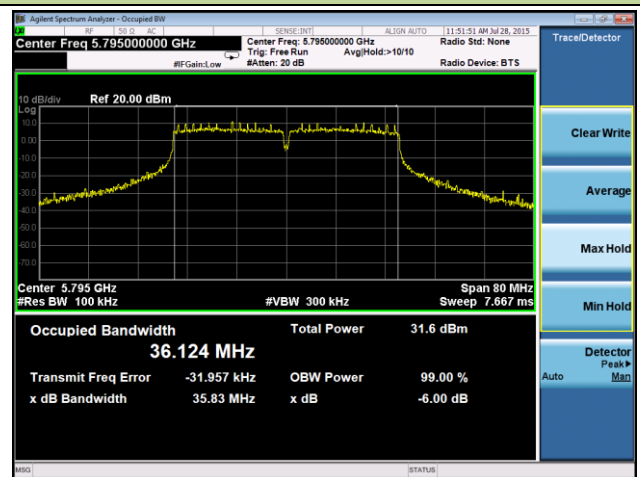


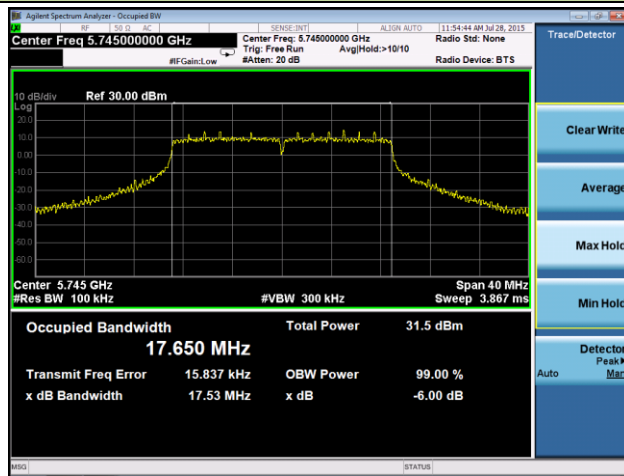
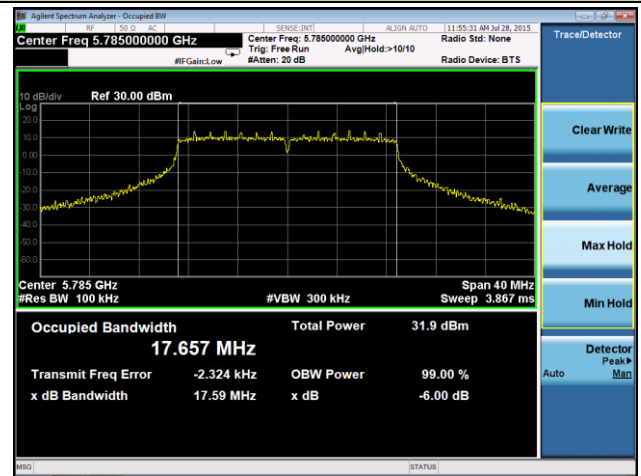
Channel 157 (5785MHz)

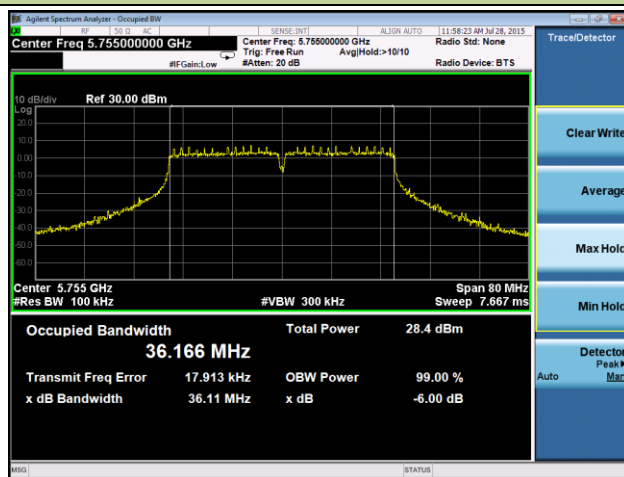
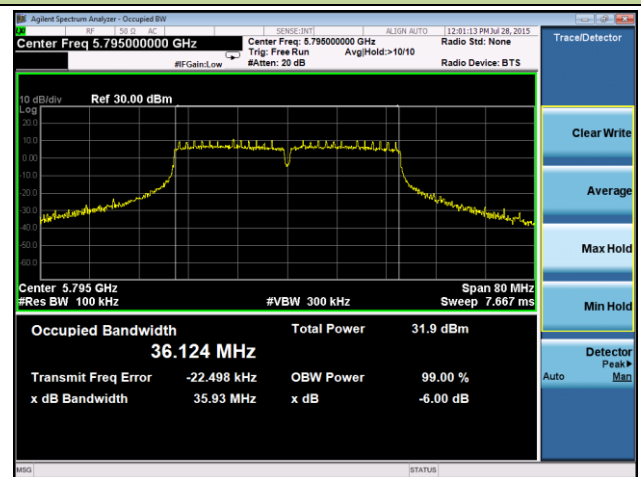


Channel 165 (5825MHz)



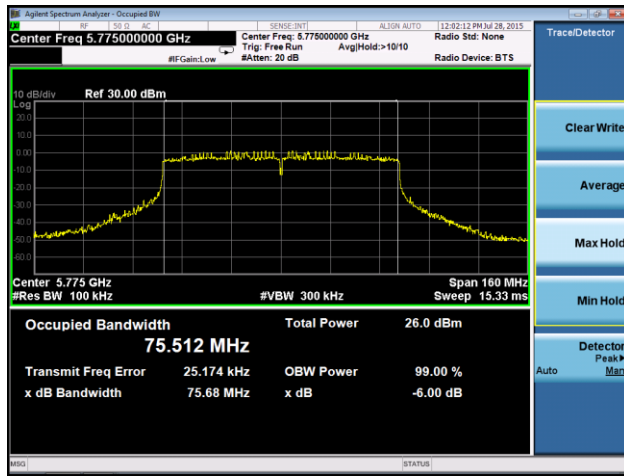
**802.11n-HT20 6dB Bandwidth - Ant 2**
**Channel 149 (5745MHz)**

**Channel 157 (5785MHz)**

**Channel 165 (5825MHz)**

**802.11n-HT40 6dB Bandwidth - Ant 2**
**Channel 151 (5755MHz)**

**Channel 159 (5795MHz)**


**802.11ac-VHT20 6dB Bandwidth - Ant 2**
**Channel 149 (5745MHz)**

**Channel 157 (5785MHz)**

**Channel 165 (5825MHz)**

**802.11ac-VHT40 6dB Bandwidth - Ant 2**
**Channel 151 (5755MHz)**

**Channel 159 (5795MHz)**


802.11ac-VHT80 6dB Bandwidth - Ant 2

Channel 155 (5775MHz)



## 7.4. Operation Frequency Range of 26dBc Bandwidth Measurement

### 7.4.1. Test Limit

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz.

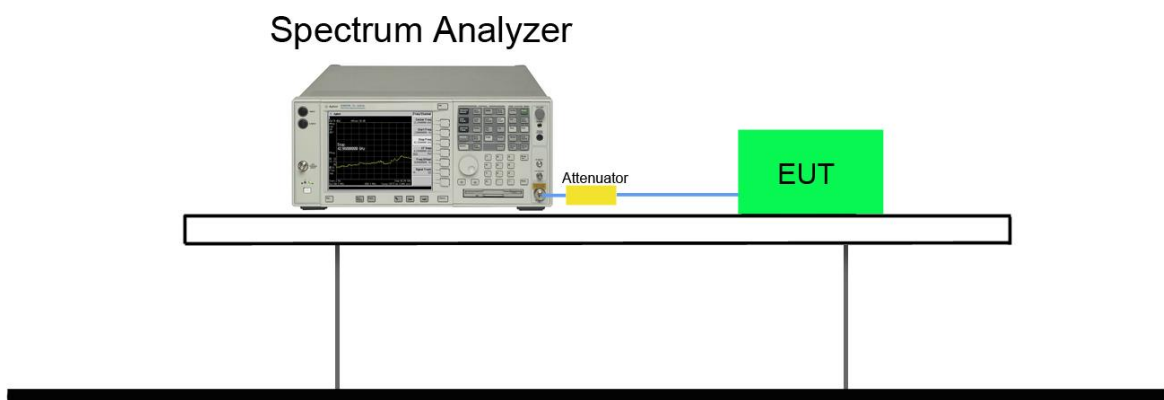
### 7.4.2. Test Procedure used

N/A

### 7.4.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. Span = 1.5 times to 5.0 times the OBW.
3. RBW = 1 % to 5 % of the OBW.
4. VBW  $\geq 3 \times$  RBW.
5. Detector = Peak.
6. Trace mode = max hold.
7. Allow the trace to stabilize and set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
8. Determine the “-26 dB down amplitude” using [(reference value) - 26].
9. Using the marker function of the instrument to show 5250MHz frequency level.

### 7.4.4. Test Setup



**7.4.5. Test Result**

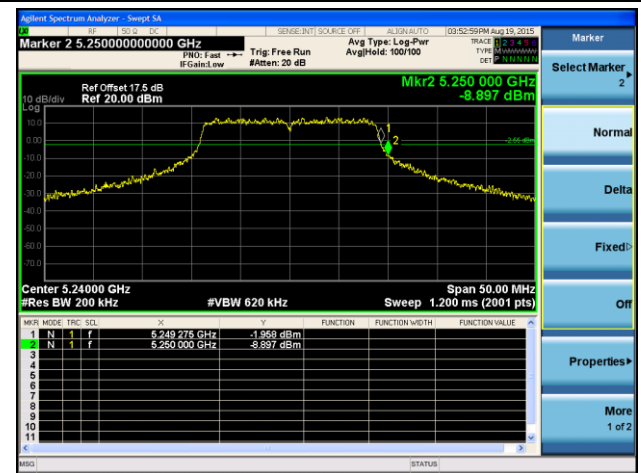
| Test Mode      | Data Rate (Mbps) | Channel No. | Frequency (MHz) | Result |
|----------------|------------------|-------------|-----------------|--------|
| <b>Ant 1</b>   |                  |             |                 |        |
| 802.11a        | 6                | 48          | 5240            | Pass   |
| 802.11n-HT20   | 6.5              | 48          | 5240            | Pass   |
| 802.11n-HT40   | 13.5             | 46          | 5230            | Pass   |
| 802.11ac-VHT20 | 6.5              | 48          | 5240            | Pass   |
| 802.11ac-VHT40 | 13.5             | 46          | 5230            | Pass   |
| 802.11ac-VHT80 | 29.3             | 42          | 5210            | Pass   |
| <b>Ant 2</b>   |                  |             |                 |        |
| 802.11a        | 6                | 48          | 5240            | Pass   |
| 802.11n-HT20   | 6.5              | 48          | 5240            | Pass   |
| 802.11n-HT40   | 13.5             | 46          | 5230            | Pass   |
| 802.11ac-VHT20 | 6.5              | 48          | 5240            | Pass   |
| 802.11ac-VHT40 | 13.5             | 46          | 5230            | Pass   |
| 802.11ac-VHT80 | 29.3             | 42          | 5210            | Pass   |

### Operation Frequency Range of 26dBc Bandwidth - Ant 1

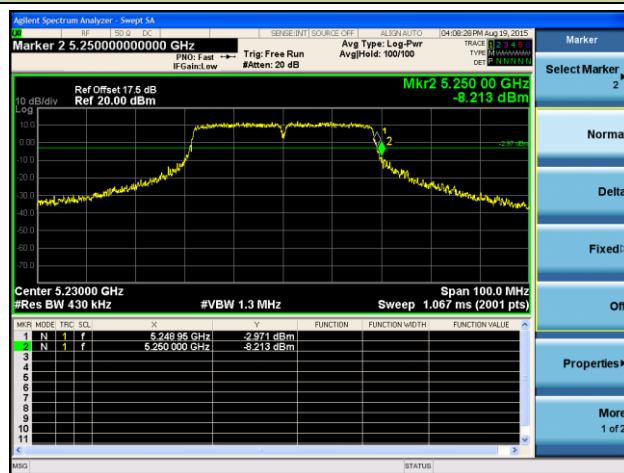
#### 802.11a - Channel 48 (5240MHz)



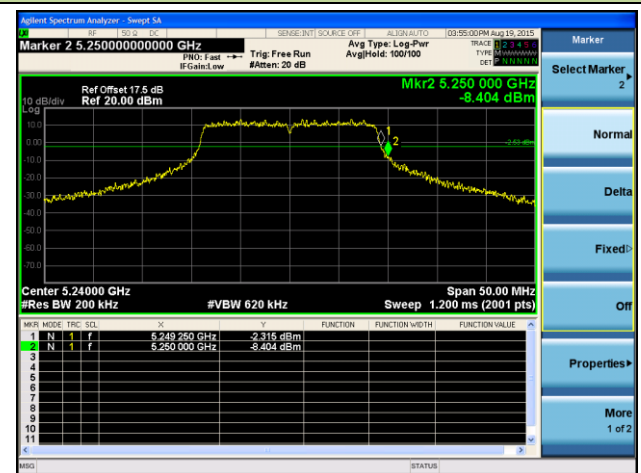
#### 802.11n-HT20 - Channel 48 (5240MHz)



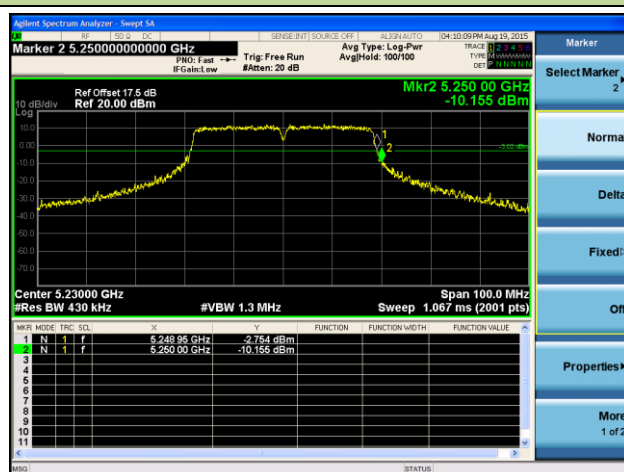
#### 802.11n-HT40 - Channel 46 (5230MHz)



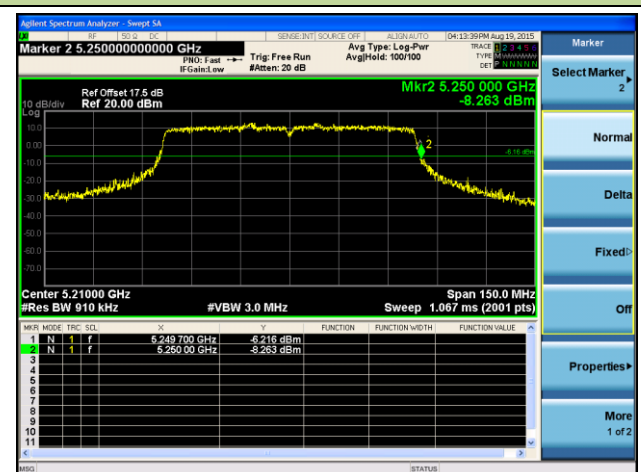
#### 802.11ac-VHT20 - Channel 48 (5240MHz)



#### 802.11ac-VHT40 - Channel 46 (5230MHz)



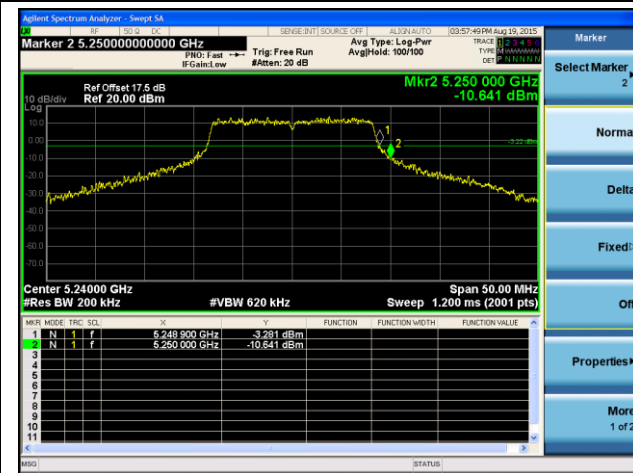
#### 802.11ac-VHT80 - Channel 42 (5210MHz)



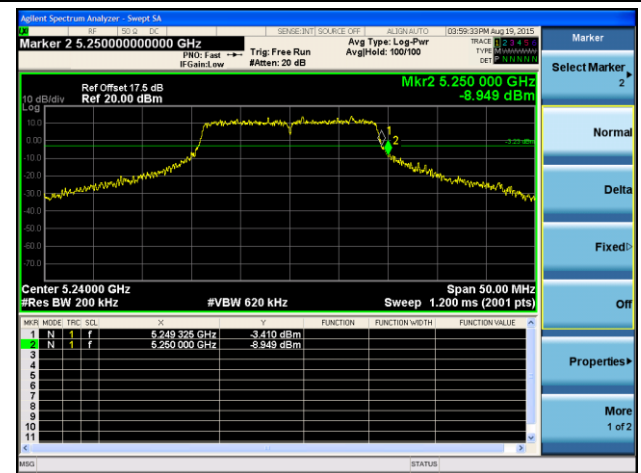


### Operation Frequency Range of 26dBc Bandwidth - Ant 2

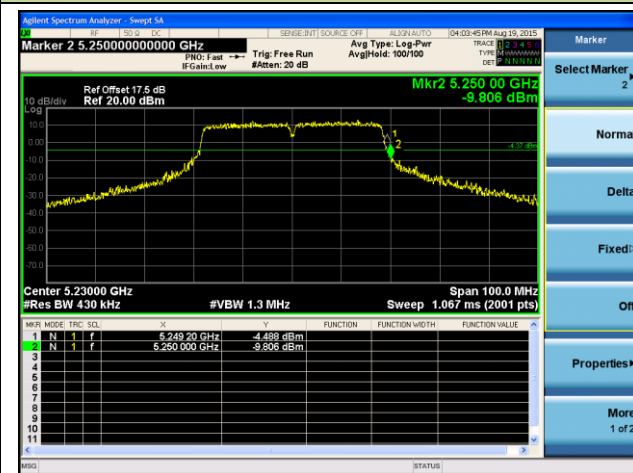
#### 802.11a - Channel 48 (5240MHz)



#### 802.11n-HT20 - Channel 48 (5240MHz)



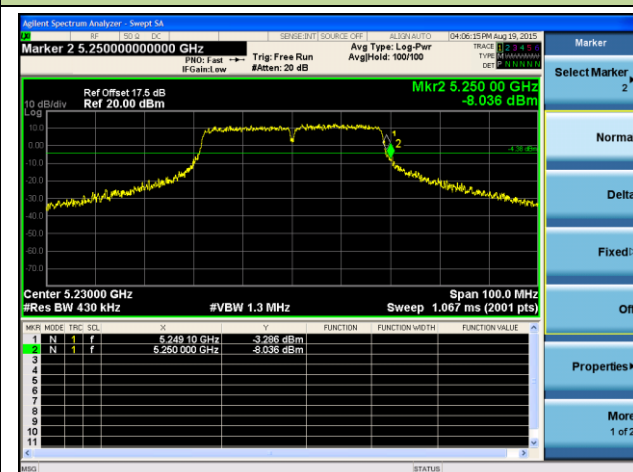
#### 802.11n-HT40 - Channel 46 (5230MHz)



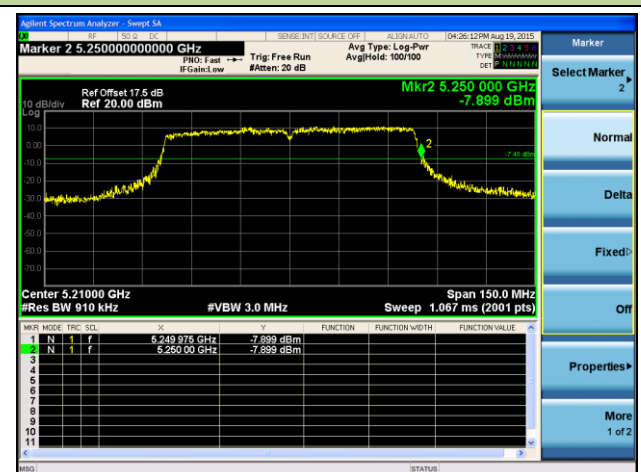
#### 802.11ac-VHT20 - Channel 48 (5240MHz)



#### 802.11ac-VHT40 - Channel 46 (5230MHz)



#### 802.11ac-VHT80 - Channel 42 (5210MHz)



## 7.5. Output Power Measurement

### 7.5.1. Test Limit

#### For FCC

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

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

#### For IC

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23.01dBm) or  $10 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.725-5.85 GHz band, the maximum conducted output power shall not exceed 1 W.

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

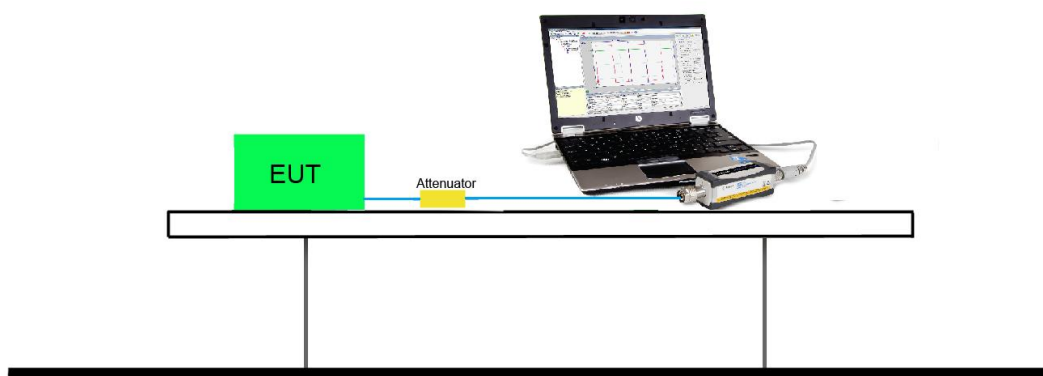
### 7.5.2. Test Procedure Used

KDB 789033 D02v01 - Section E) 3) b) Method PM-G

### 7.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### 7.5.4. Test Setup



### 7.5.5. Test Result

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (yellow marker) for final test of each channel.

| N <sub>Tx</sub> | 802.11a | MCS Index for<br>802.11n | Data Rate (Mbps) |          |                 |          |
|-----------------|---------|--------------------------|------------------|----------|-----------------|----------|
|                 |         |                          | 20MHz Bandwidth  |          | 40MHz Bandwidth |          |
|                 |         |                          | 800ns GI         | 400ns GI | 800ns GI        | 400ns GI |
| 1               | 6       | 0                        | 6.5              | 7.2      | 13.5            | 15.0     |
| 1               | 9       | 1                        | 13.0             | 14.4     | 27.0            | 30.0     |
| 1               | 12      | 2                        | 19.5             | 21.7     | 40.5            | 45.0     |
| 1               | 18      | 3                        | 26.0             | 28.9     | 54.0            | 60.0     |
| 1               | 24      | 4                        | 39.0             | 43.3     | 81.0            | 90.0     |
| 1               | 36      | 5                        | 52.0             | 57.8     | 108.0           | 120.0    |
| 1               | 48      | 6                        | 58.5             | 65.0     | 121.5           | 135.0    |
| 1               | 54      | 7                        | 65.0             | 72.2     | 135.0           | 150.0    |

| N <sub>Tx</sub> | 802.11a | MCS Index for<br>802.11n | Data Rate (Mbps) |          |                 |          |
|-----------------|---------|--------------------------|------------------|----------|-----------------|----------|
|                 |         |                          | 20MHz Bandwidth  |          | 40MHz Bandwidth |          |
|                 |         |                          | 800ns GI         | 400ns GI | 800ns GI        | 400ns GI |
| 2               | 6       | 8                        | 13.0             | 14.4     | 27.0            | 30.0     |
| 2               | 9       | 9                        | 26.0             | 28.9     | 54.0            | 60.0     |
| 2               | 12      | 10                       | 39.0             | 43.3     | 81.0            | 90.0     |
| 2               | 18      | 11                       | 52.0             | 57.8     | 108.0           | 120.0    |
| 2               | 24      | 12                       | 78.0             | 86.7     | 162.0           | 180.0    |
| 2               | 36      | 13                       | 104.0            | 115.6    | 216.0           | 240.0    |
| 2               | 48      | 14                       | 117.0            | 130.0    | 243.0           | 270.0    |
| 2               | 54      | 15                       | 130.0            | 144.0    | 270.0           | 300.0    |

| N <sub>Tx</sub> | MCS Index<br>for 802.11ac | Data Rate (Mbps) |          |                 |          |                 |          |
|-----------------|---------------------------|------------------|----------|-----------------|----------|-----------------|----------|
|                 |                           | 20MHz Bandwidth  |          | 40MHz Bandwidth |          | 80MHz Bandwidth |          |
|                 |                           | 800ns GI         | 400ns GI | 800ns GI        | 400ns GI | 800ns GI        | 400ns GI |
| 1               | 0                         | 6.5              | 7.2      | 13.5            | 15.0     | 29.3            | 32.5     |
| 1               | 1                         | 13.0             | 14.4     | 27.0            | 30.0     | 58.5            | 65.0     |
| 1               | 2                         | 19.5             | 21.7     | 40.5            | 45.0     | 87.8            | 97.5     |
| 1               | 3                         | 26.0             | 28.9     | 54.0            | 60.0     | 117.0           | 130.0    |
| 1               | 4                         | 39.0             | 43.3     | 81.0            | 90.0     | 175.5           | 195.0    |
| 1               | 5                         | 52.0             | 57.8     | 108.0           | 120.0    | 234.0           | 260.0    |
| 1               | 6                         | 58.5             | 65.0     | 121.5           | 135.0    | 263.3           | 292.5    |
| 1               | 7                         | 65.0             | 72.2     | 135.0           | 150.0    | 292.5           | 325.0    |
| 1               | 8                         | 78.0             | 86.7     | 162.0           | 180.0    | 351.0           | 390.0    |
| 1               | 9                         | --               | --       | 180.0           | 200.0    | 390.0           | 433.3    |

| N <sub>Tx</sub> | MCS Index<br>for 802.11ac | Data Rate (Mbps) |          |                 |          |                 |          |
|-----------------|---------------------------|------------------|----------|-----------------|----------|-----------------|----------|
|                 |                           | 20MHz Bandwidth  |          | 40MHz Bandwidth |          | 80MHz Bandwidth |          |
|                 |                           | 800ns GI         | 400ns GI | 800ns GI        | 400ns GI | 800ns GI        | 400ns GI |
| 2               | 0                         | 13.0             | 14.4     | 27.0            | 30.0     | 58.6            | 65.0     |
| 2               | 1                         | 26.0             | 28.8     | 54.0            | 60.0     | 117.0           | 130.0    |
| 2               | 2                         | 39.0             | 43.4     | 81.0            | 90.0     | 175.6           | 195.0    |
| 2               | 3                         | 52.0             | 57.8     | 108.0           | 120.0    | 234.0           | 260.0    |
| 2               | 4                         | 78.0             | 86.6     | 162.0           | 180.0    | 351.0           | 390.0    |
| 2               | 5                         | 104.0            | 115.6    | 216.0           | 240.0    | 468.0           | 520.0    |
| 2               | 6                         | 117.0            | 130.0    | 243.0           | 270.0    | 526.6           | 585.0    |
| 2               | 7                         | 130.0            | 144.4    | 270.0           | 300.0    | 585.0           | 650.0    |
| 2               | 8                         | 156.0            | 173.4    | 324.0           | 360.0    | 702.0           | 780.0    |
| 2               | 9                         | --               | --       | 360.0           | 400.0    | 780.0           | 866.6    |

Note: Power output test was verified over all data rates of each mode shown as above, and then choose the maximum power output (yellow marker) for final test of each channel.

**Output power at various data rates for Ant 1:**

| Test Mode | Bandwidth | Channel | Frequency (MHz) | Data Rate (Mbps) | Average Power (dBm) |
|-----------|-----------|---------|-----------------|------------------|---------------------|
| 802.11a   | 20        | 60      | 5180            | 6                | 22.54               |
|           |           |         |                 | 24               | 22.32               |
|           |           |         |                 | 54               | 22.28               |
| 802.11n   | 20        | 60      | 5180            | 6.5              | 21.87               |
|           |           |         |                 | 7.2              | 21.67               |
|           |           |         |                 | 26               | 21.13               |
|           |           |         |                 | 28.9             | 21.04               |
|           |           |         |                 | 65               | 20.84               |
|           |           |         |                 | 72.2             | 20.56               |
| 802.11n   | 40        | 62      | 5190            | 13.5             | 19.08               |
|           |           |         |                 | 15               | 19.01               |
|           |           |         |                 | 54               | 18.65               |
|           |           |         |                 | 60               | 18.34               |
|           |           |         |                 | 135              | 18.02               |
|           |           |         |                 | 150              | 18.56               |
| 802.11ac  | 20        | 60      | 5180            | 6.5              | 21.48               |
|           |           |         |                 | 7.2              | 21.24               |
|           |           |         |                 | 39               | 21.01               |
|           |           |         |                 | 78               | 20.67               |
|           |           |         |                 | 81               | 20.43               |
|           |           |         |                 | 86.7             | 20.12               |
| 802.11ac  | 40        | 62      | 5190            | 13.5             | 19.03               |
|           |           |         |                 | 15               | 19.01               |
|           |           |         |                 | 108              | 18.89               |
|           |           |         |                 | 120              | 18.76               |
|           |           |         |                 | 180              | 18.34               |
|           |           |         |                 | 200              | 18.01               |
| 802.11ac  | 80        | 58      | 5210            | 29.3             | 18.98               |
|           |           |         |                 | 32.5             | 18.96               |
|           |           |         |                 | 260              | 18.76               |

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|  |  |  |  |       |       |
|--|--|--|--|-------|-------|
|  |  |  |  | 234   | 18.34 |
|  |  |  |  | 390   | 18.04 |
|  |  |  |  | 433.3 | 17.78 |

**For FCC Bands (UNII-3) & IC Bands (UNII-1 & UNII-3)**
**1Tx**

| Test Mode  | Data Rate (Mbps) | Channel No. | Freq. (MHz) | Ant 1 Average Power (dBm) | Total Average Power (dBm) | Average Power Limit (dBm) | Max EIRP (dBm) | EIRP Limit (dBm) | Result |
|------------|------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|----------------|------------------|--------|
| 11a        | 6                | 36          | 5180        | 14.60                     | 14.60                     | --                        | 20.00          | ≤ 22.21          | Pass   |
| 11a        | 6                | 44          | 5220        | 14.34                     | 14.34                     | --                        | 19.74          | ≤ 22.21          | Pass   |
| 11a        | 6                | 48          | 5240        | 14.02                     | 14.02                     | --                        | 19.42          | ≤ 22.21          | Pass   |
| 11a        | 6                | 149         | 5745        | 23.07                     | 23.07                     | ≤ 30.00                   | --             | --               | Pass   |
| 11a        | 6                | 157         | 5785        | 22.57                     | 22.57                     | ≤ 30.00                   | --             | --               | Pass   |
| 11a        | 6                | 165         | 5825        | 22.19                     | 22.19                     | ≤ 30.00                   | --             | --               | Pass   |
| 11n-HT20   | 6.5              | 36          | 5180        | 15.10                     | 15.10                     | --                        | 20.50          | ≤ 22.50          | Pass   |
| 11n-HT20   | 6.5              | 44          | 5220        | 14.19                     | 14.19                     | --                        | 19.59          | ≤ 22.50          | Pass   |
| 11n-HT20   | 6.5              | 48          | 5240        | 14.03                     | 14.03                     | --                        | 19.43          | ≤ 22.50          | Pass   |
| 11n-HT20   | 6.5              | 149         | 5745        | 23.03                     | 23.03                     | ≤ 30.00                   | --             | --               | Pass   |
| 11n-HT20   | 6.5              | 157         | 5785        | 22.45                     | 22.45                     | ≤ 30.00                   | --             | --               | Pass   |
| 11n-HT20   | 6.5              | 165         | 5825        | 22.16                     | 22.16                     | ≤ 30.00                   | --             | --               | Pass   |
| 11n-HT40   | 13.5             | 38          | 5190        | 14.80                     | 14.80                     | --                        | 20.20          | ≤ 23.01          | Pass   |
| 11n-HT40   | 13.5             | 46          | 5230        | 14.22                     | 14.22                     | --                        | 19.62          | ≤ 23.01          | Pass   |
| 11n-HT40   | 13.5             | 151         | 5755        | 21.76                     | 21.76                     | ≤ 30.00                   | --             | --               | Pass   |
| 11n-HT40   | 13.5             | 159         | 5795        | 22.02                     | 22.02                     | ≤ 30.00                   | --             | --               | Pass   |
| 11ac-VHT20 | 6.5              | 36          | 5180        | 14.86                     | 14.86                     | --                        | 20.26          | ≤ 22.50          | Pass   |
| 11ac-VHT20 | 6.5              | 44          | 5220        | 14.31                     | 14.31                     | --                        | 19.71          | ≤ 22.50          | Pass   |
| 11ac-VHT20 | 6.5              | 48          | 5240        | 14.55                     | 14.55                     | --                        | 19.95          | ≤ 22.50          | Pass   |
| 11ac-VHT20 | 6.5              | 149         | 5745        | 23.03                     | 23.03                     | ≤ 30.00                   | --             | --               | Pass   |
| 11ac-VHT20 | 6.5              | 157         | 5785        | 22.56                     | 22.56                     | ≤ 30.00                   | --             | --               | Pass   |
| 11ac-VHT20 | 6.5              | 165         | 5825        | 22.22                     | 22.22                     | ≤ 30.00                   | --             | --               | Pass   |
| 11ac-VHT40 | 13.5             | 38          | 5190        | 14.83                     | 14.83                     | --                        | 20.23          | ≤ 23.01          | Pass   |
| 11ac-VHT40 | 13.5             | 46          | 5230        | 14.20                     | 14.20                     | --                        | 19.60          | ≤ 23.01          | Pass   |
| 11ac-VHT40 | 13.5             | 151         | 5755        | 21.81                     | 21.81                     | ≤ 30.00                   | --             | --               | Pass   |
| 11ac-VHT40 | 13.5             | 159         | 5795        | 22.10                     | 22.10                     | ≤ 30.00                   | --             | --               | Pass   |
| 11ac-VHT80 | 29.3             | 42          | 5210        | 14.36                     | 14.36                     | --                        | 19.76          | ≤ 23.01          | Pass   |
| 11ac-VHT80 | 29.3             | 155         | 5775        | 18.55                     | 18.55                     | ≤ 30.00                   | --             | --               | Pass   |

Note: Max EIRP Power (dBm) = Total Average Power (dBm) + Antenna Gain.

EIRP Limit Calculation as below:

For 5150-5250MHz



802.11a:  $10 + 10 \log_{10} (16.65\text{MHz}) = 22.21\text{dBm} < 23.01\text{dBm}$ ;

802.11n-HT20:  $10 + 10 \log_{10} (17.78\text{MHz}) = 22.50\text{dBm} < 23.01\text{dBm}$ ;

802.11ac-VHT20:  $10 + 10 \log_{10} (17.79\text{MHz}) = 22.50\text{dBm} < 23.01\text{dBm}$ ;

802.11n-HT40/ac-VHT40/ac-VHT80:  $10 + 10 \log_{10} B > 23.01\text{dBm}$ ;