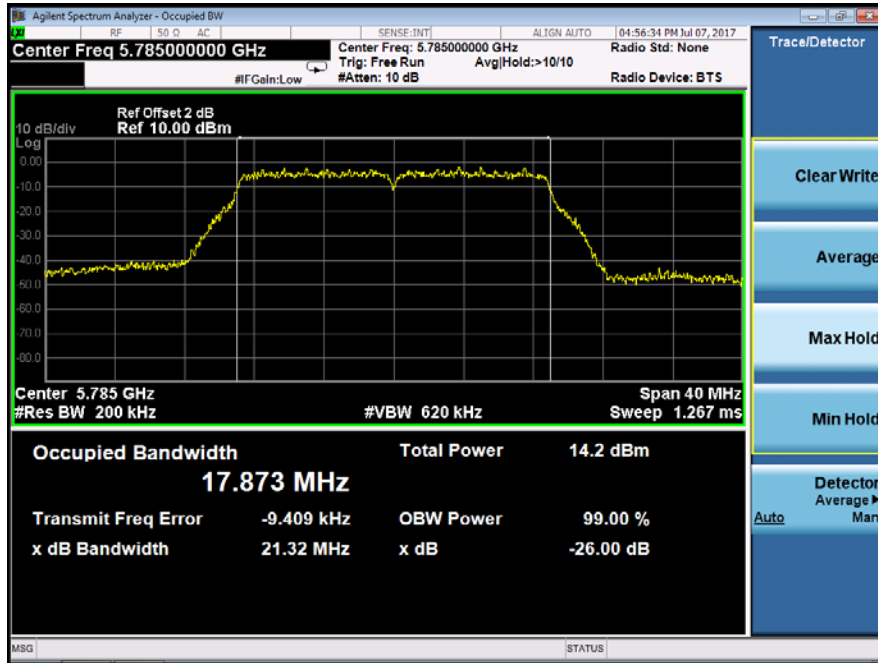
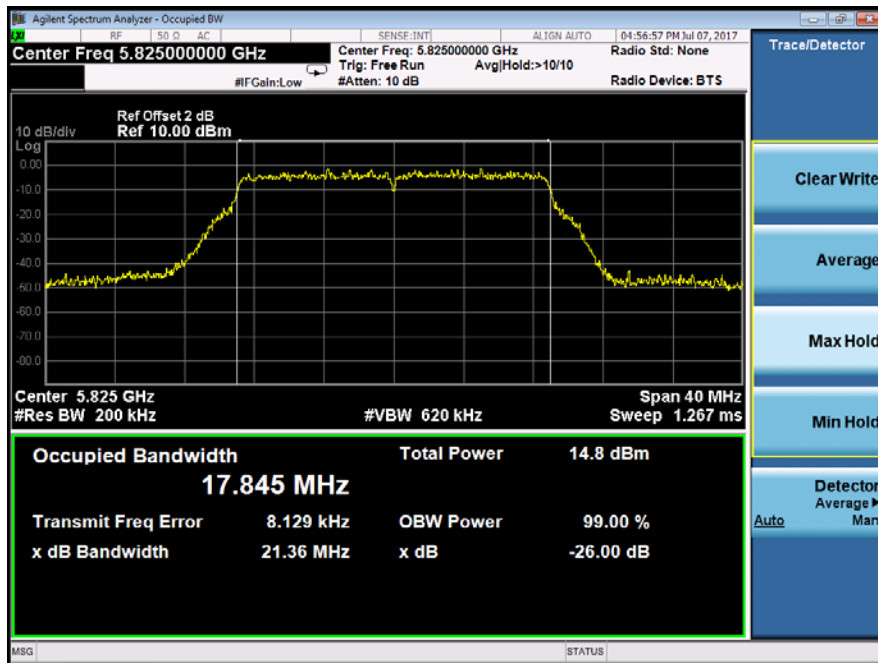


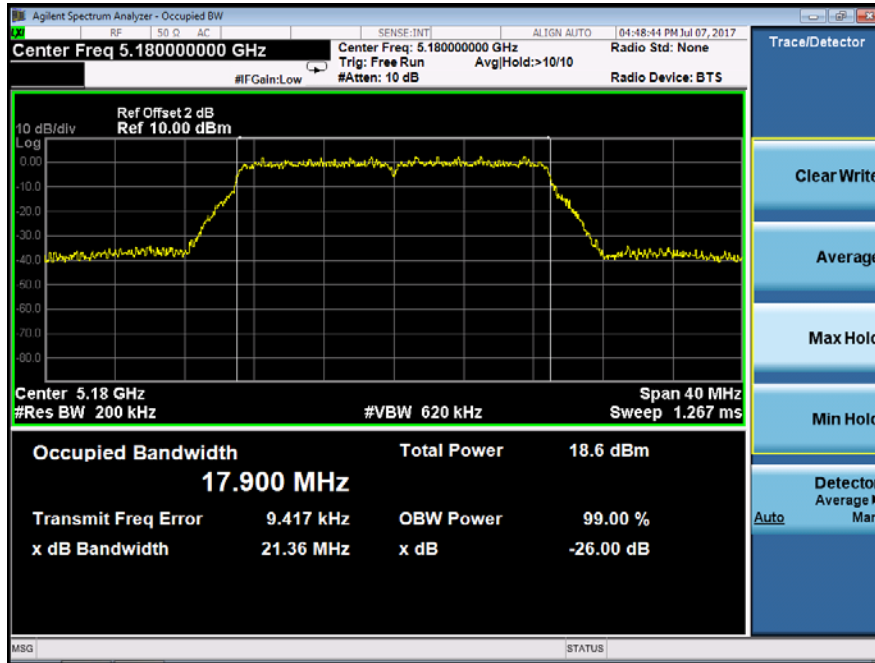
|   |                     |                |
|---|---------------------|----------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band III       |                |
| Test Model                                | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant1                                      |                     | 5785           |



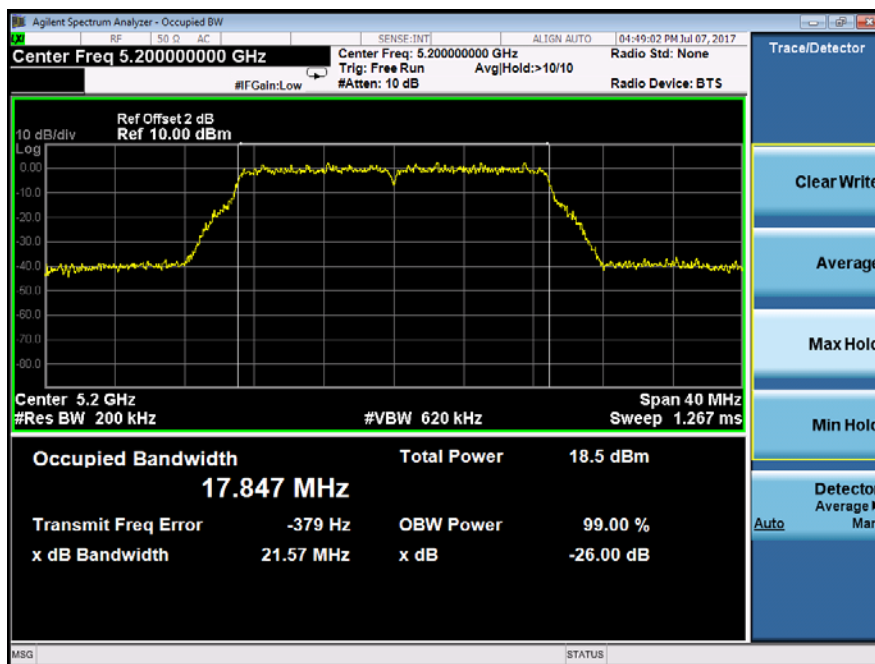
|   |                     |                |
|---|---------------------|----------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band III       |                |
| Test Model                                | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant1                                      |                     | 5825           |



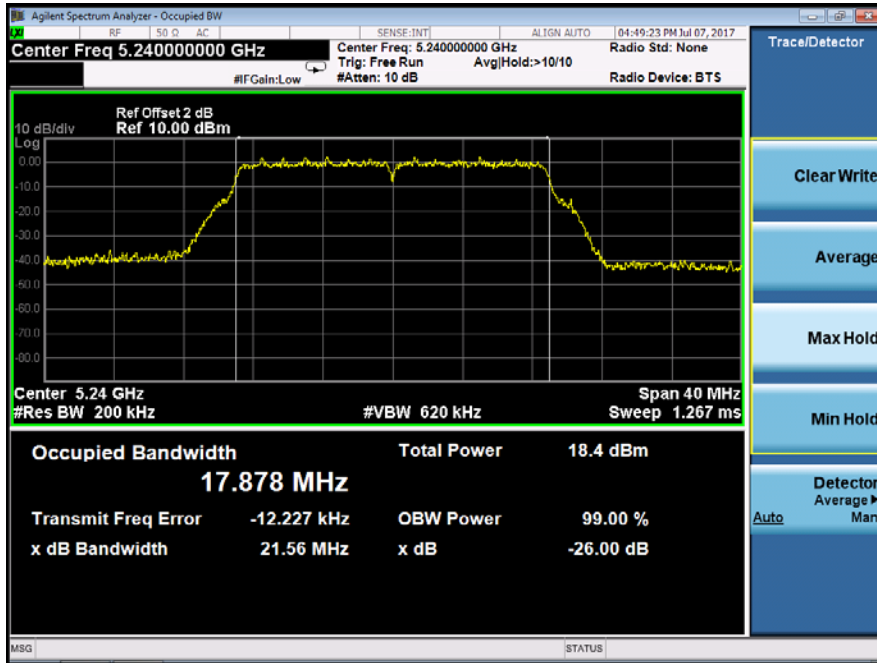
|   |                     |
|---|---------------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band I         |
| Test Model 802.11ac(VHT20) mode           | Frequency(MHz) 5180 |
| Ant1                                      |                     |



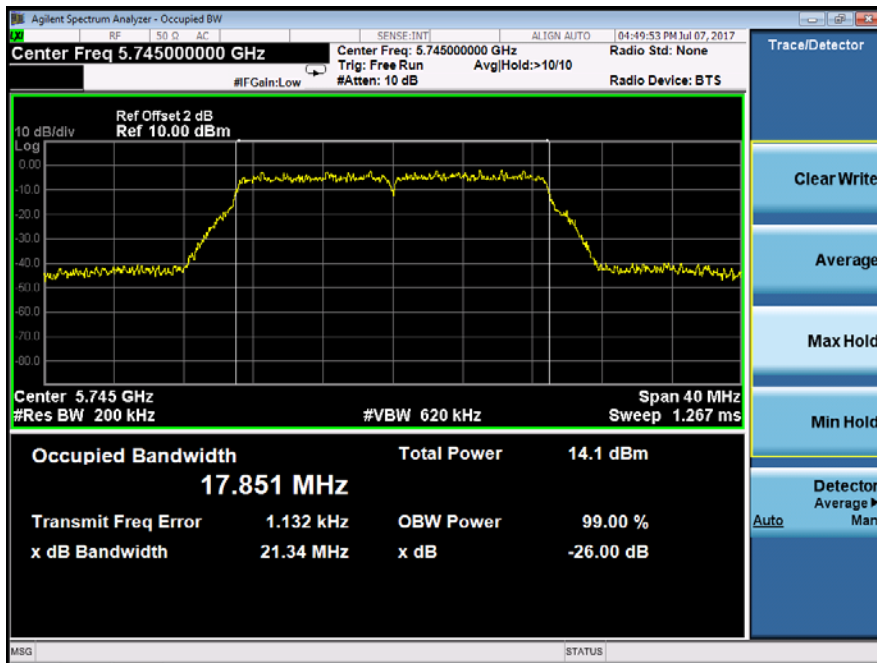
|   |                     |
|---|---------------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band I         |
| Test Model 802.11ac(VHT20) mode           | Frequency(MHz) 5200 |
| Ant1                                      |                     |



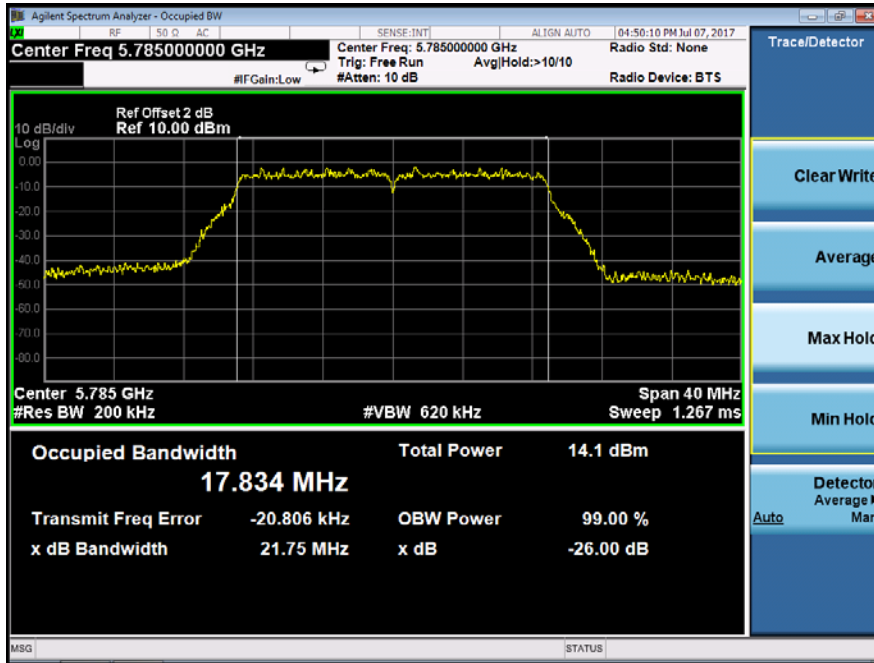
|   |                     |
|---|---------------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band I         |
| Test Model 802.11ac(VHT20) mode           | Frequency(MHz) 5240 |
| Ant1                                      |                     |



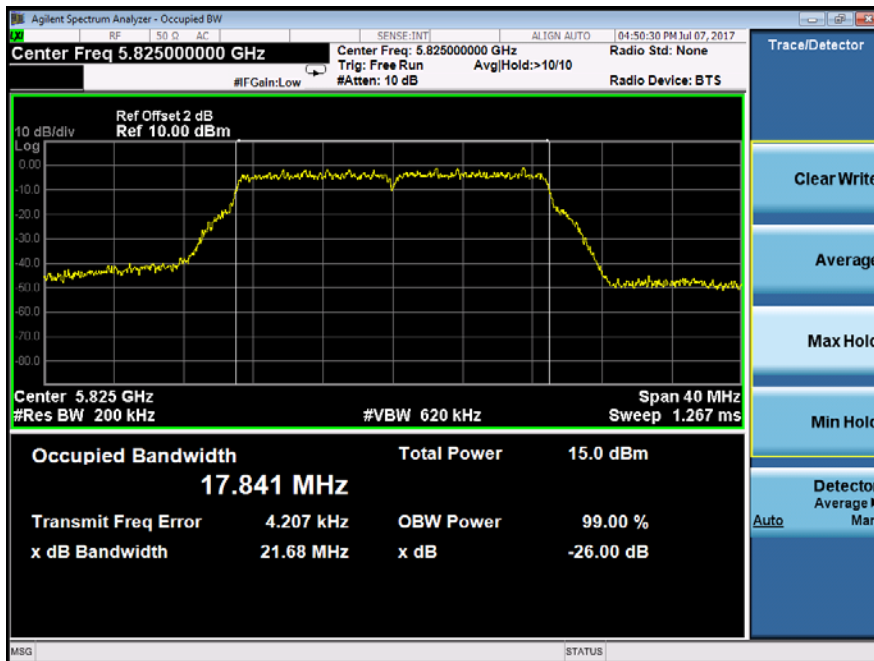
|   |                     |
|---|---------------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band III       |
| Test Model 802.11ac(VHT20) mode           | Frequency(MHz) 5745 |
| Ant1                                      |                     |



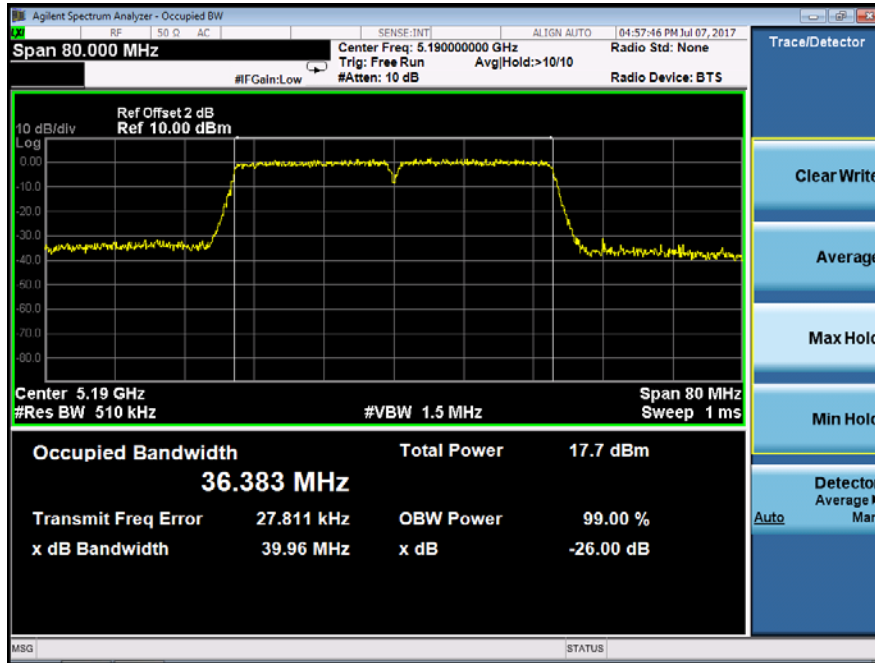
|   |                      |                |
|---|----------------------|----------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band III        |                |
| Test Model                                | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant1                                      |                      | 5785           |



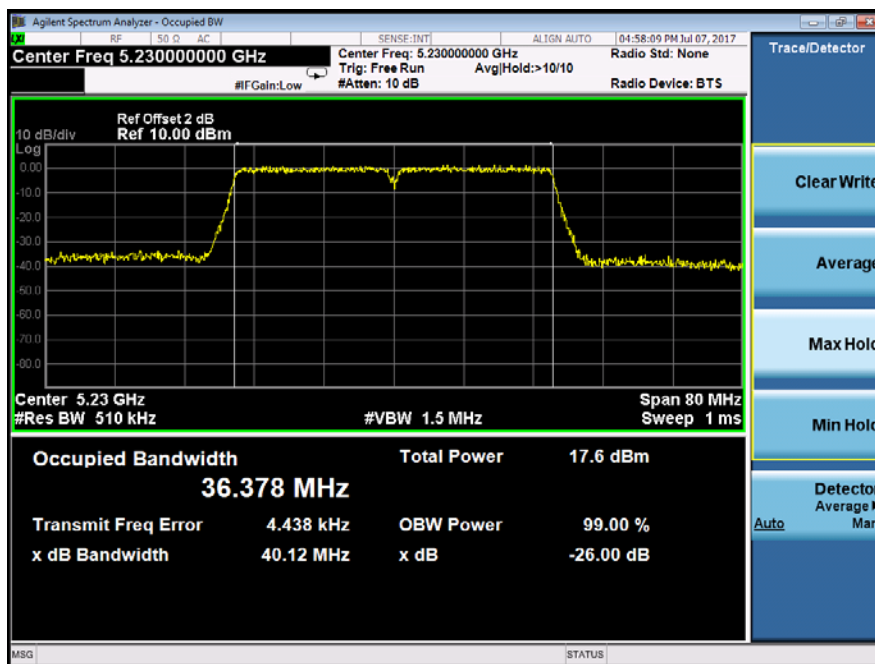
|   |                      |                |
|---|----------------------|----------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band III        |                |
| Test Model                                | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant1                                      |                      | 5825           |



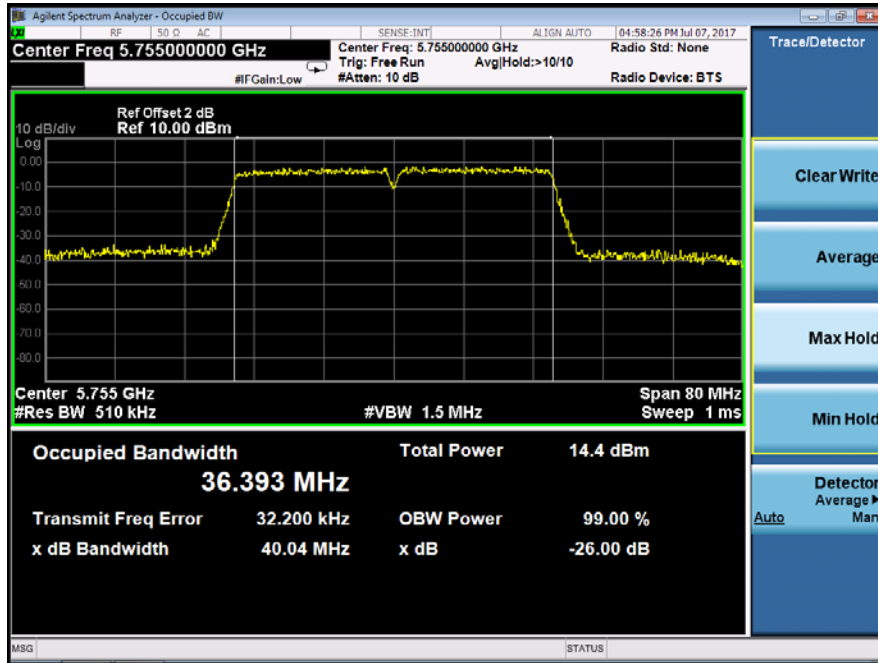
|   |                     |                |
|---|---------------------|----------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band I         |                |
| Test Model                                | 802.11n(VHT40) mode | Frequency(MHz) |
| Ant1                                      |                     | 5190           |



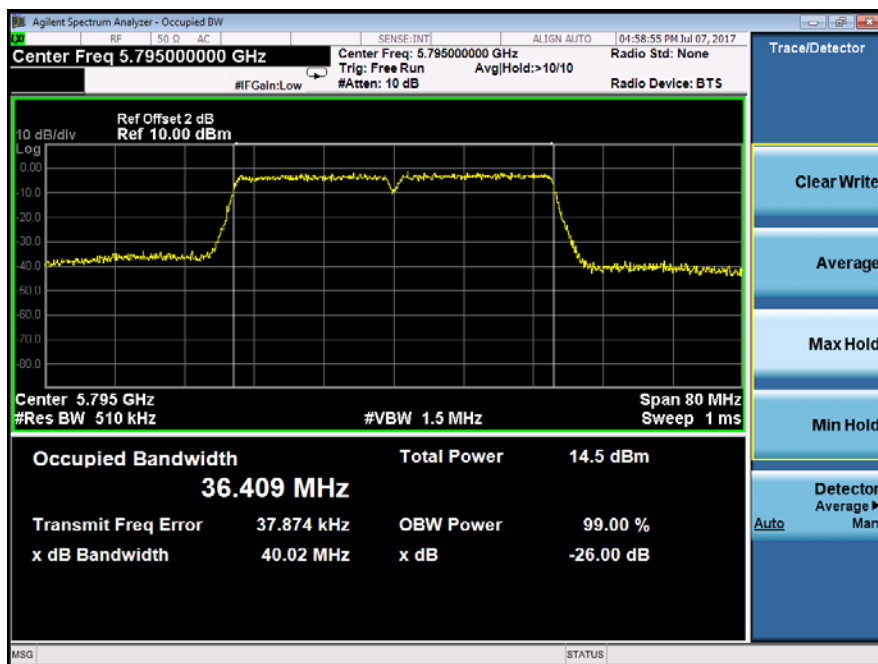
|   |                     |                |
|---|---------------------|----------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band I         |                |
| Test Model                                | 802.11n(VHT40) mode | Frequency(MHz) |
| Ant1                                      |                     | 5230           |



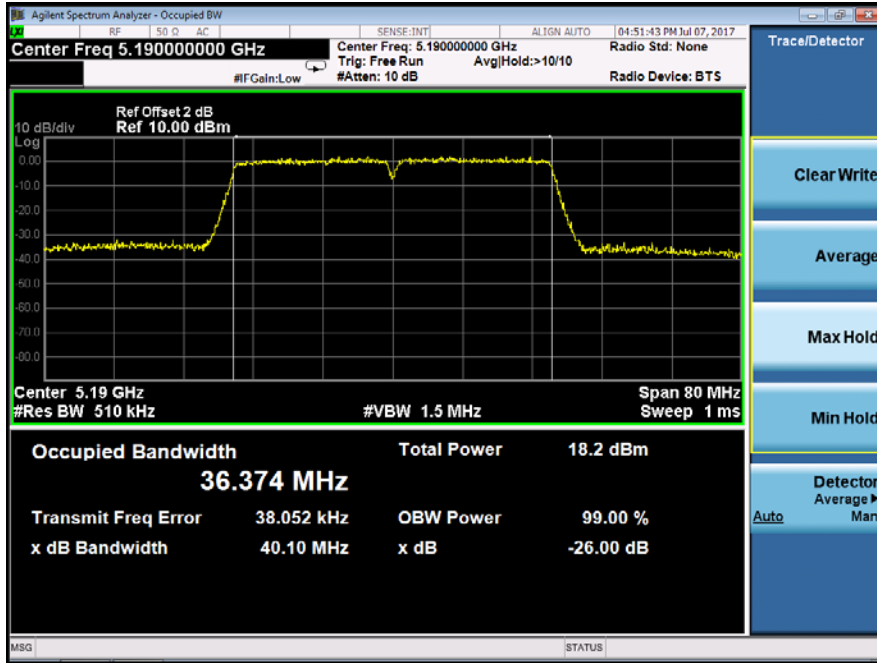
|   |                     |                |
|---|---------------------|----------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band III       |                |
| Test Model                                | 802.11n(VHT40) mode | Frequency(MHz) |
| Ant1                                      |                     | 5755           |



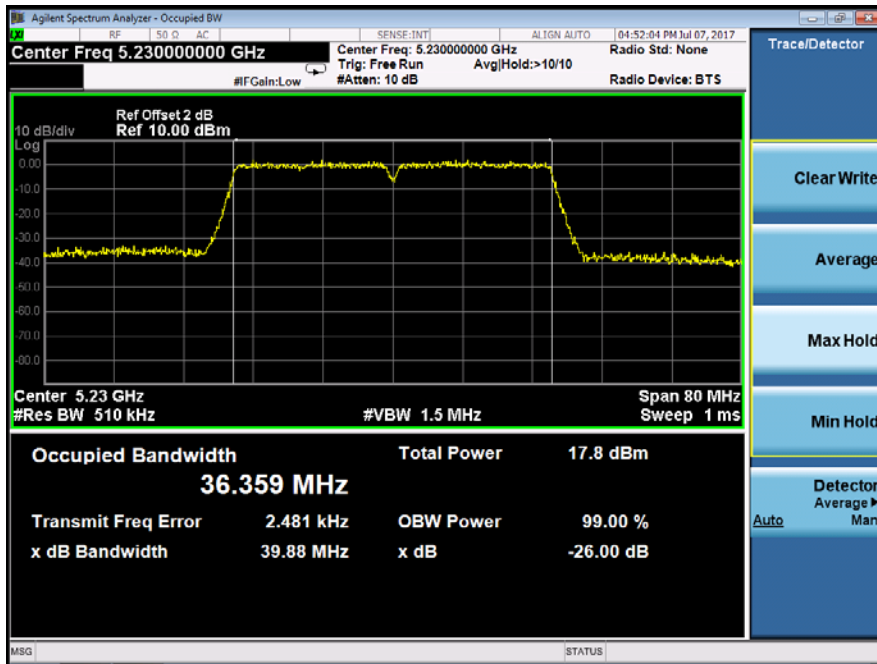
|   |                     |                |
|---|---------------------|----------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band III       |                |
| Test Model                                | 802.11n(VHT40) mode | Frequency(MHz) |
| Ant1                                      |                     | 5795           |



|   |                     |
|---|---------------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band I         |
| Test Model 802.11ac(VHT40) mode           | Frequency(MHz) 5190 |
| Ant1                                      |                     |

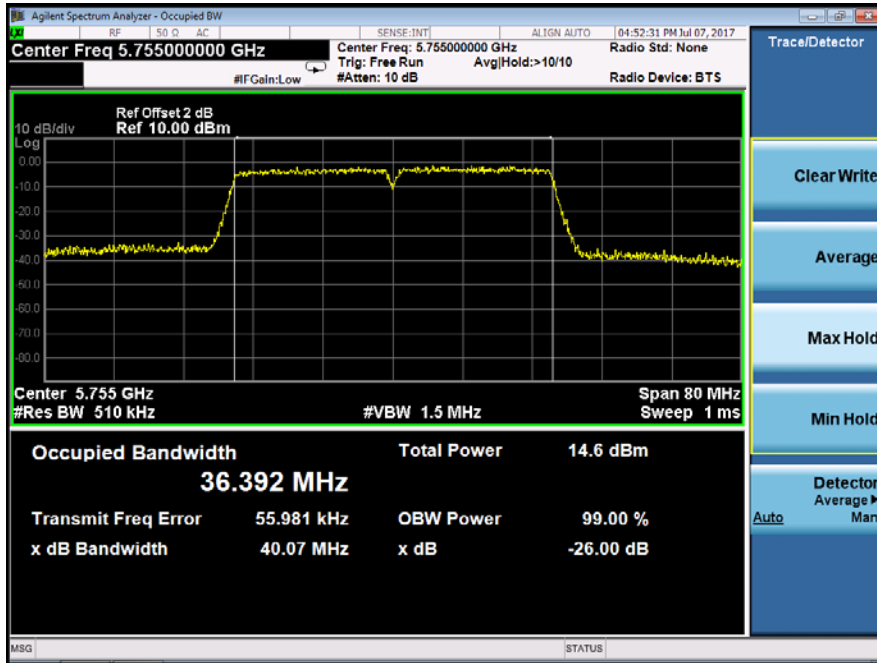


|   |                     |
|---|---------------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band I         |
| Test Model 802.11ac(VHT40) mode           | Frequency(MHz) 5230 |
| Ant1                                      |                     |

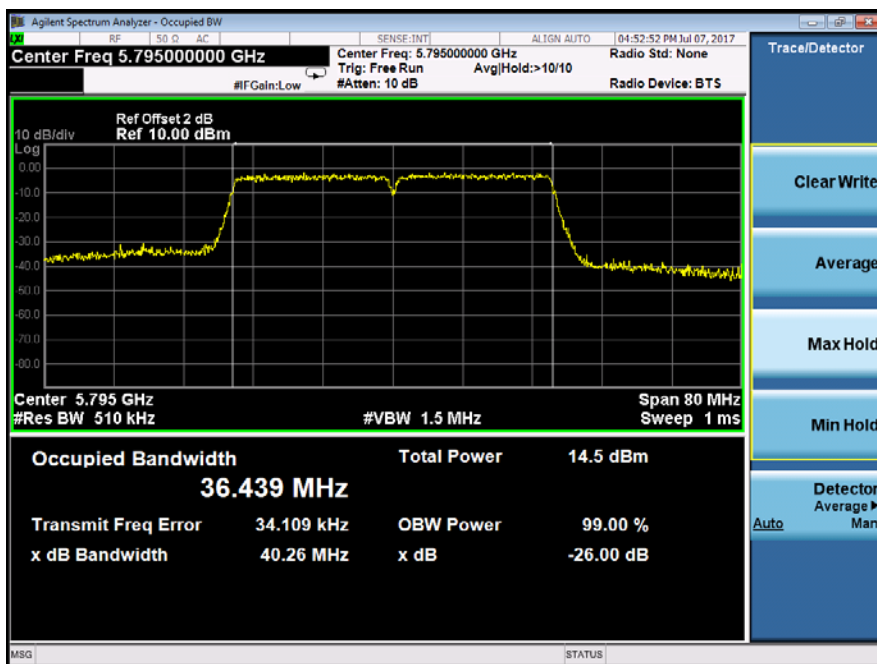




|   |                      |                |
|---|----------------------|----------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band III        |                |
| Test Model                                | 802.11ac(VHT40) mode | Frequency(MHz) |
| Ant1                                      |                      | 5755           |

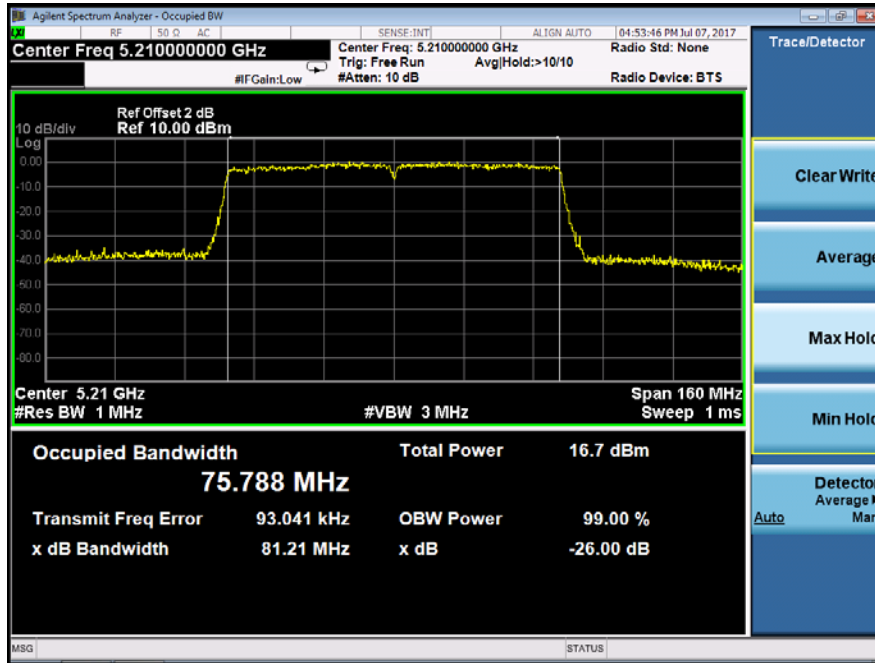


|   |                      |                |
|---|----------------------|----------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band III        |                |
| Test Model                                | 802.11ac(VHT40) mode | Frequency(MHz) |
| Ant1                                      |                      | 5795           |

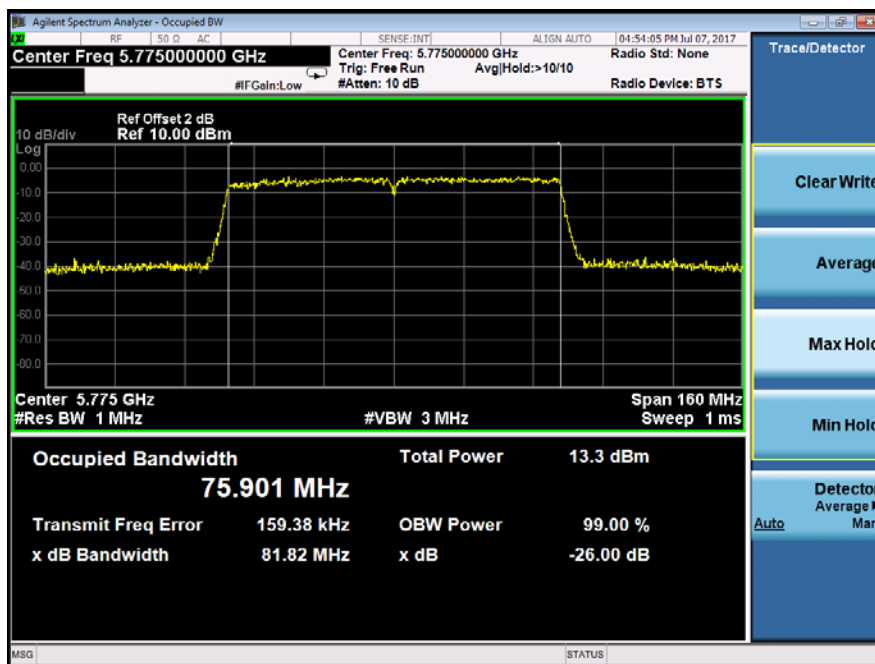




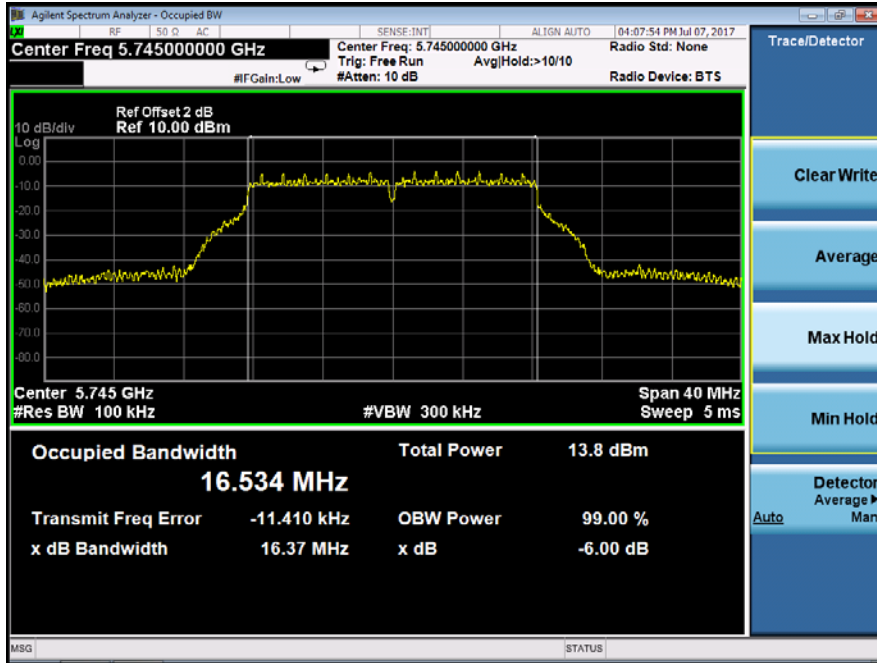
|   |                     |
|---|---------------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band I         |
| Test Model 802.11ac(VHT80) mode           | Frequency(MHz) 5210 |
| Ant1                                      |                     |



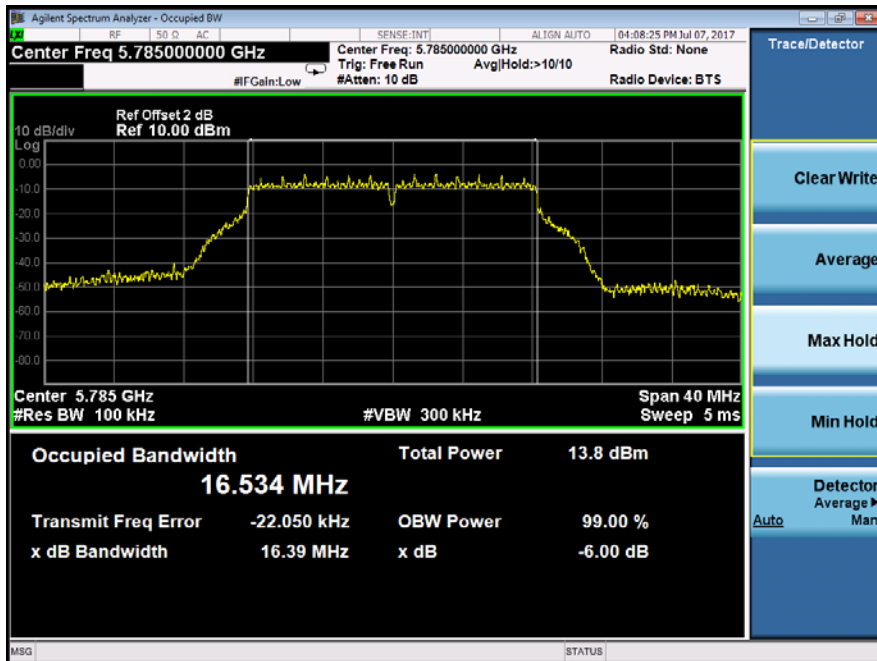
|   |                     |
|---|---------------------|
| Emission Bandwidth&99% Occupied Bandwidth | UNII Band III       |
| Test Model 802.11ac(VHT80) mode           | Frequency(MHz) 5775 |
| Ant1                                      |                     |



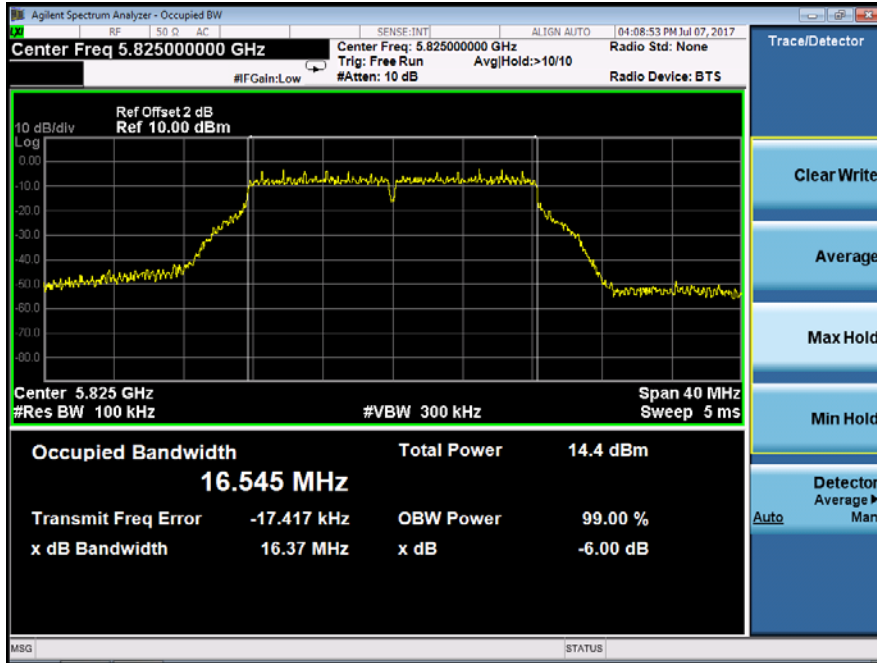
|                            |               |                |
|----------------------------|---------------|----------------|
| Minimum Emission Bandwidth | UNII Band III |                |
| Test Model                 | 802.11a mode  | Frequency(MHz) |
| Ant1                       |               | 5745           |



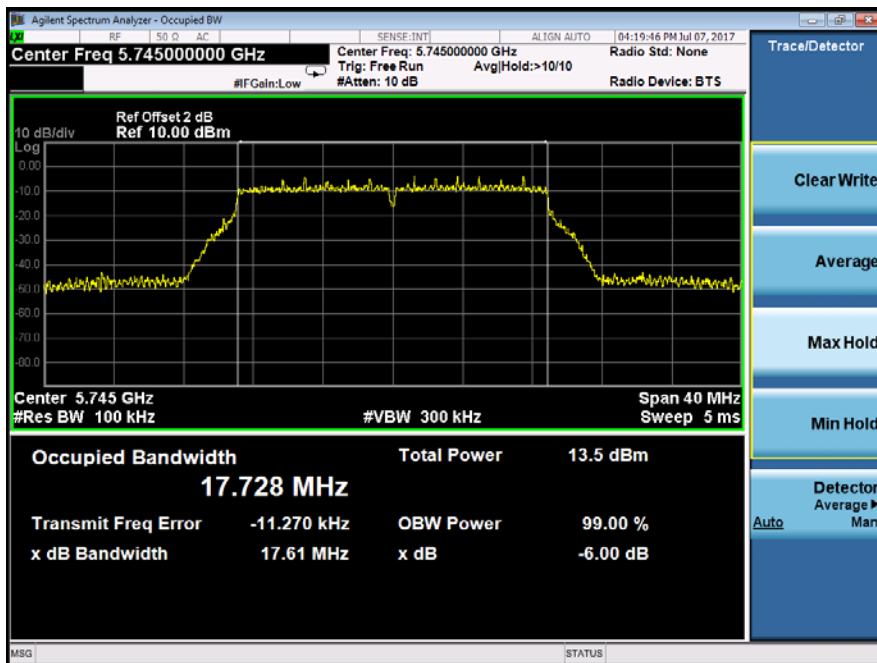
|                            |               |                |
|----------------------------|---------------|----------------|
| Minimum Emission Bandwidth | UNII Band III |                |
| Test Model                 | 802.11a mode  | Frequency(MHz) |
| Ant1                       |               | 5785           |



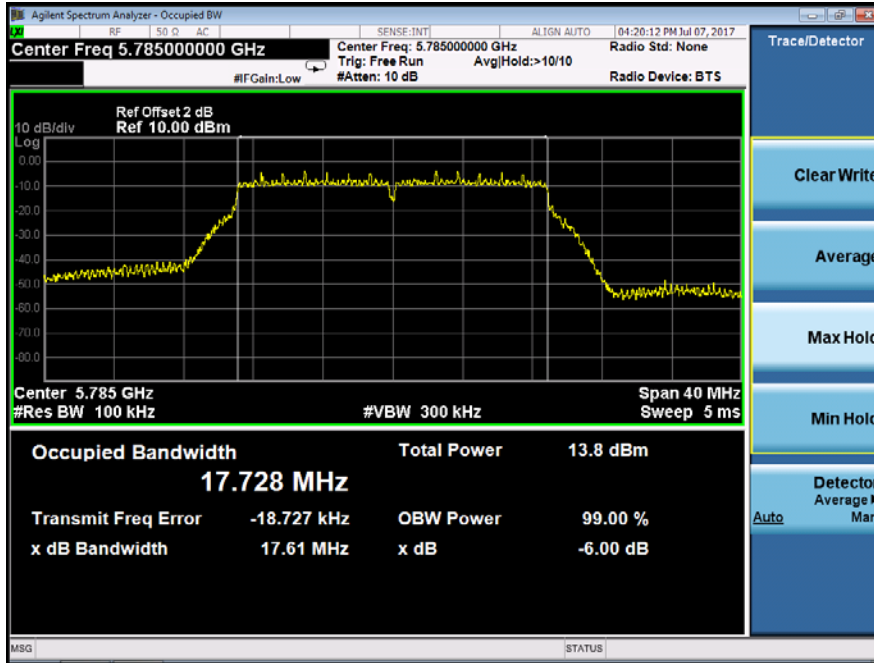
|                            |               |                |
|----------------------------|---------------|----------------|
| Minimum Emission Bandwidth | UNII Band III |                |
| Test Model                 | 802.11a mode  | Frequency(MHz) |
| Ant1                       |               | 5825           |



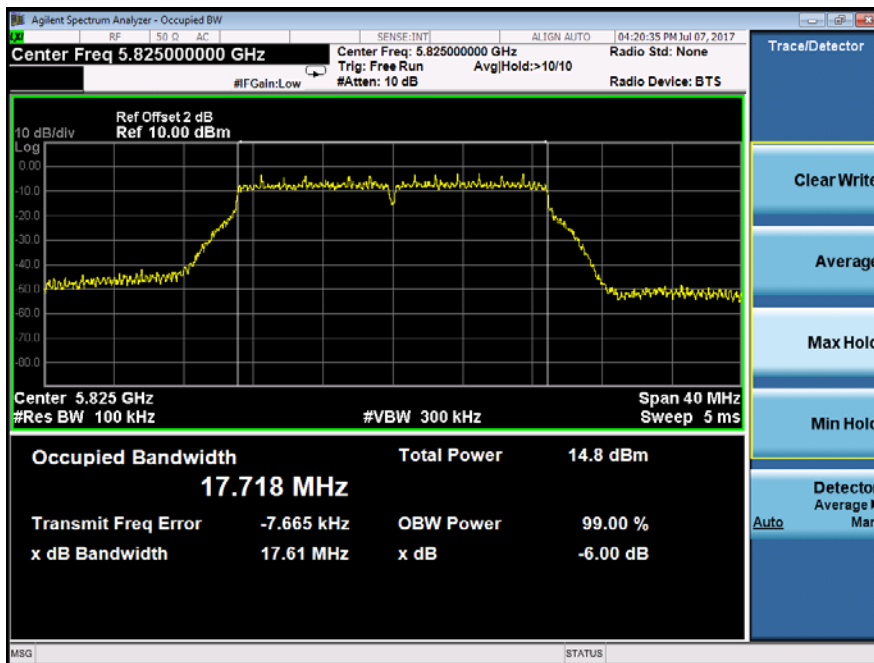
|                            |                     |                |
|----------------------------|---------------------|----------------|
| Minimum Emission Bandwidth | UNII Band III       |                |
| Test Model                 | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant1                       |                     | 5745           |



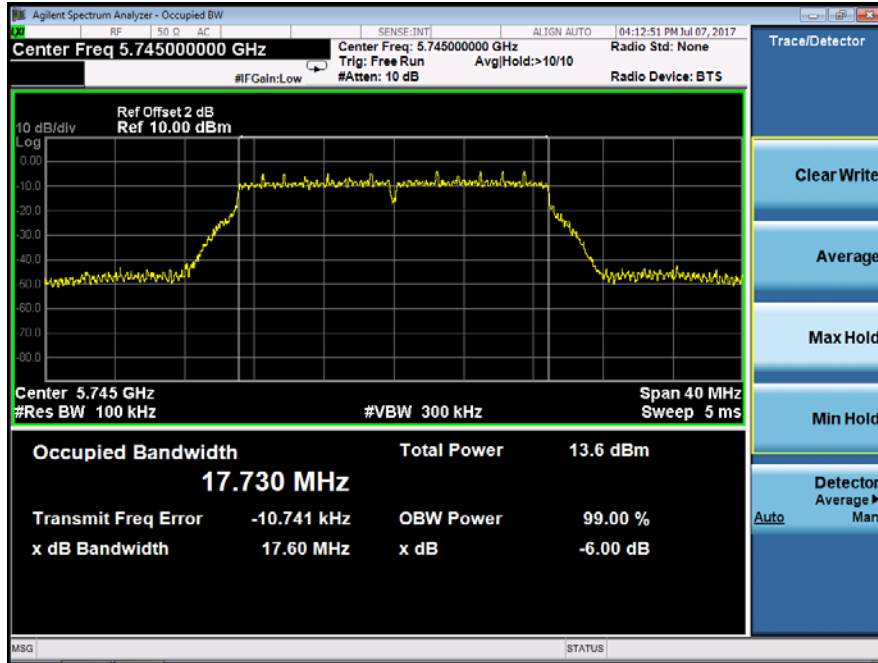
|                            |                     |                |
|----------------------------|---------------------|----------------|
| Minimum Emission Bandwidth | UNII Band III       |                |
| Test Model                 | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant1                       |                     | 5785           |



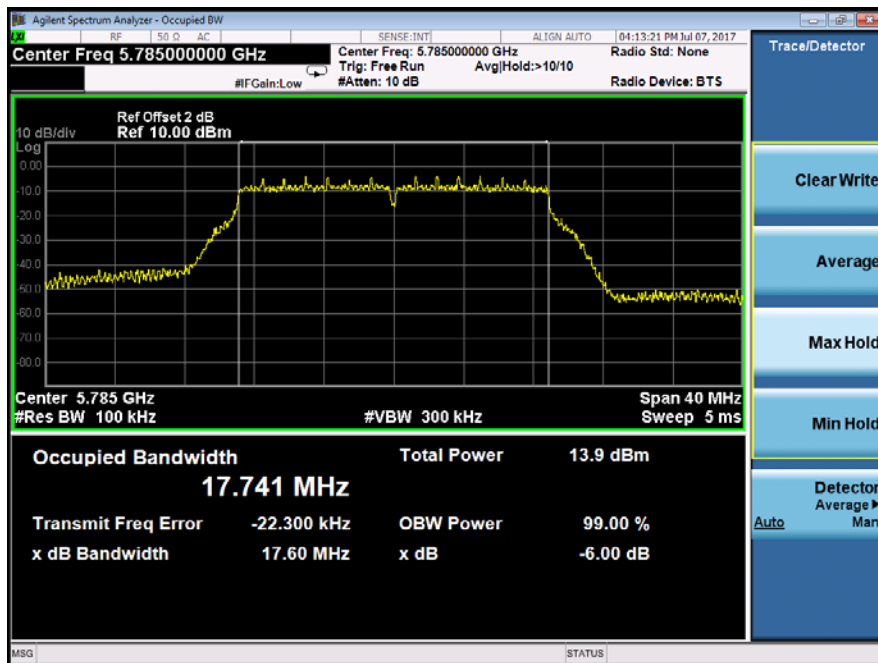
|                            |                     |                |
|----------------------------|---------------------|----------------|
| Minimum Emission Bandwidth | UNII Band III       |                |
| Test Model                 | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant1                       |                     | 5825           |



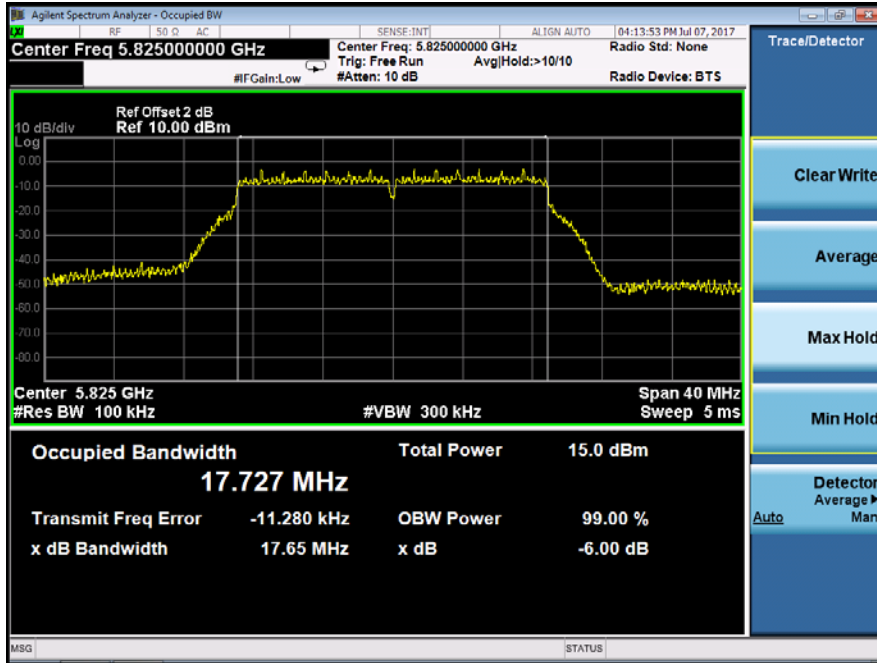
|                            |                      |                |
|----------------------------|----------------------|----------------|
| Minimum Emission Bandwidth | UNII Band III        |                |
| Test Model                 | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant1                       |                      | 5745           |



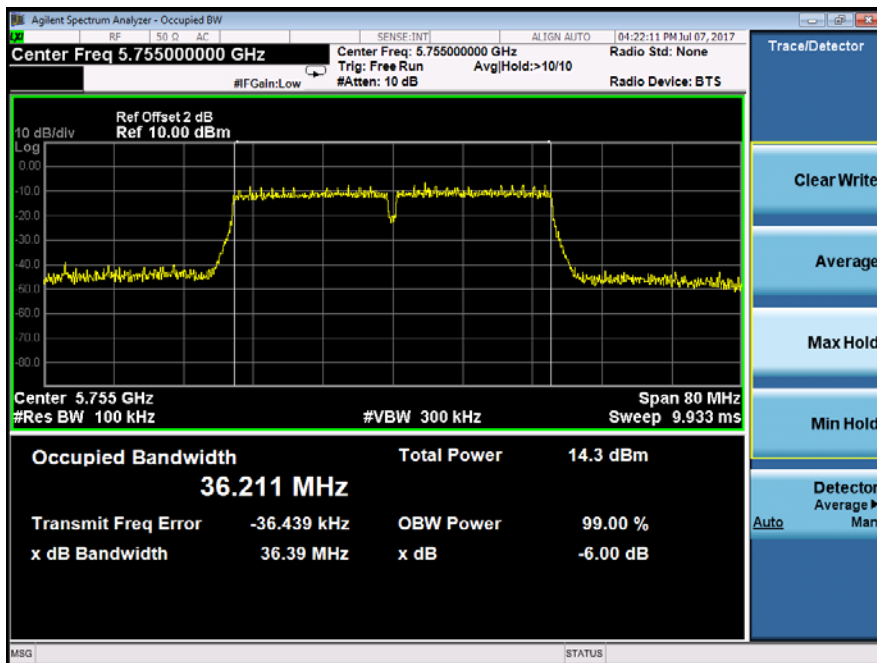
|                            |                      |                |
|----------------------------|----------------------|----------------|
| Minimum Emission Bandwidth | UNII Band III        |                |
| Test Model                 | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant1                       |                      | 5785           |



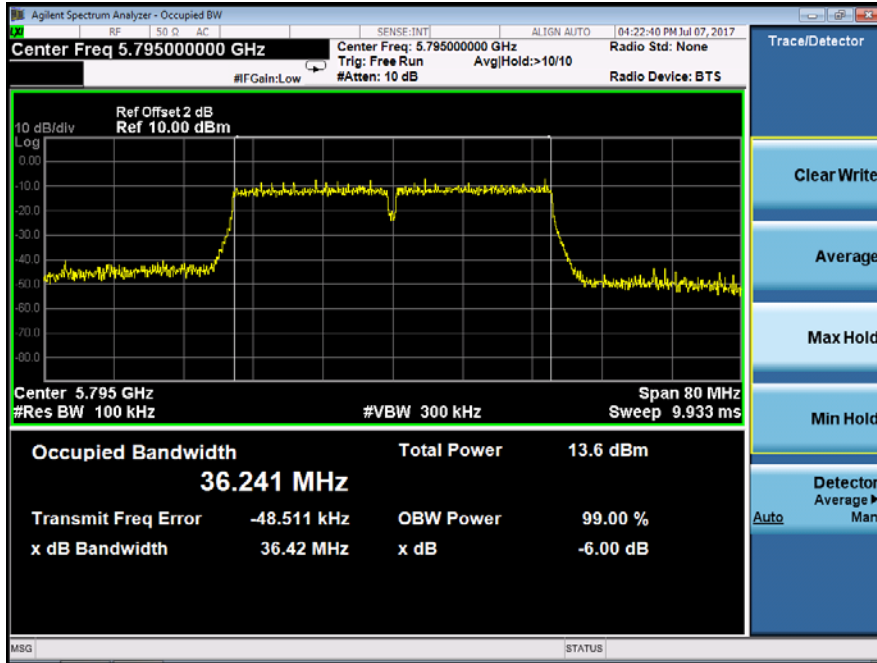
|                            |                      |                |
|----------------------------|----------------------|----------------|
| Minimum Emission Bandwidth | UNII Band III        |                |
| Test Model                 | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant1                       |                      | 5825           |



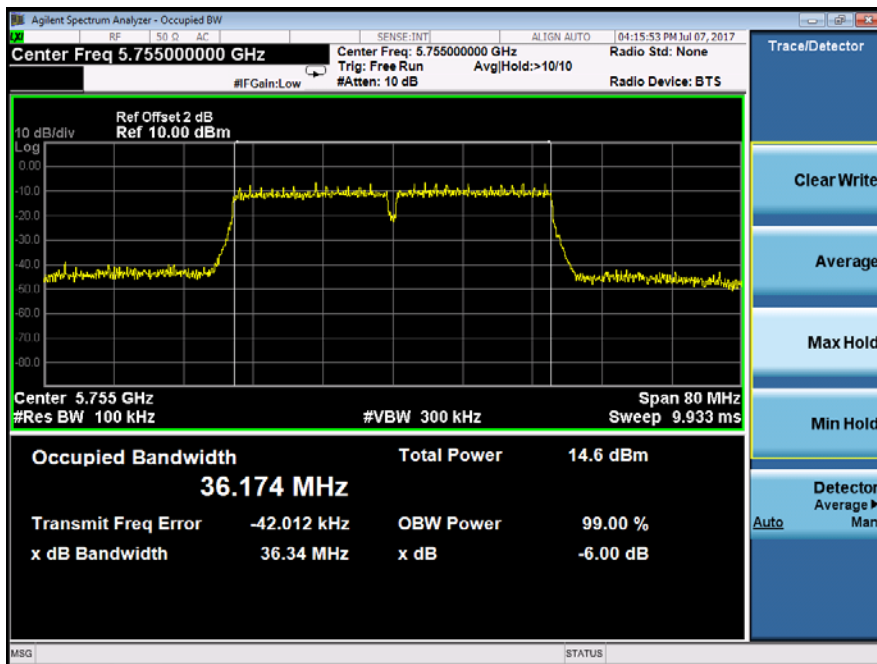
|                            |                     |                |
|----------------------------|---------------------|----------------|
| Minimum Emission Bandwidth | UNII Band III       |                |
| Test Model                 | 802.11n(VHT40) mode | Frequency(MHz) |
| Ant1                       |                     | 5755           |



|                            |                     |                |      |
|----------------------------|---------------------|----------------|------|
| Minimum Emission Bandwidth |                     | UNII Band III  |      |
| Test Model                 | 802.11n(VHT40) mode | Frequency(MHz) | 5795 |
| Ant1                       |                     |                |      |

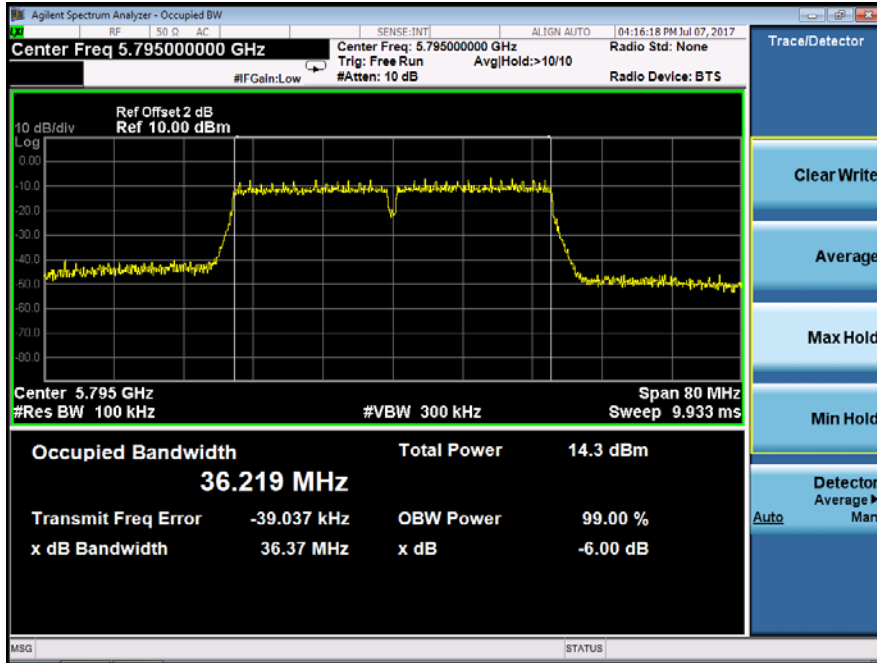


|                            |                      |                |      |
|----------------------------|----------------------|----------------|------|
| Minimum Emission Bandwidth |                      | UNII Band III  |      |
| Test Model                 | 802.11ac(VHT40) mode | Frequency(MHz) | 5755 |
| Ant1                       |                      |                |      |

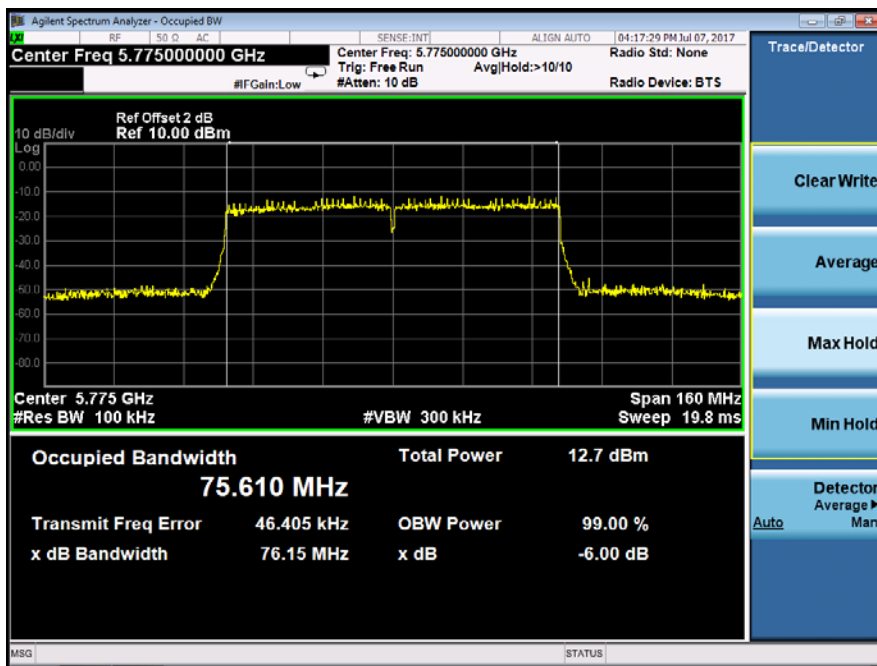




|                            |                      |                |
|----------------------------|----------------------|----------------|
| Minimum Emission Bandwidth | UNII Band III        |                |
| Test Model                 | 802.11ac(VHT40) mode | Frequency(MHz) |
| Ant1                       |                      | 5795           |



|                            |                      |                |
|----------------------------|----------------------|----------------|
| Minimum Emission Bandwidth | UNII Band III        |                |
| Test Model                 | 802.11ac(VHT80) mode | Frequency(MHz) |
| Ant1                       |                      | 5775           |



## 8.2 MAXIMUM CONDUCTED OUTPUT POWER

### 8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I

According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C

According to FCC Part 15.407(a)(3) for UNII Band III

According to 789033 D02 Section II(E)

### 8.2.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor 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. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) 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. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points 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 (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) 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). In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

#### 8.2.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- a. The Transmitter output (antenna port) was connected to the power meter.
- b. Turn on the EUT and power meter and then record the power value.
- c. Repeat above procedures on all channels needed to be tested.

8.2.5 Test Results

| <input checked="" type="checkbox"/> 802.11a mode |                |                     |                             |       |               |         |
|--|----------------|---------------------|-----------------------------|-------|---------------|---------|
| Temperature :                                    |                | 28 °C               | Test Date :                 |       | July 07, 2017 |         |
| Humidity :                                       |                | 65 %                | Test By:                    |       | King Kong     |         |
| Band   | Channel Number | Channel Freq. (MHz) | Conducted Output Power(dBm) |       | Limit (dBm)   | Verdict |
|  |                |                     | Ant0                        | Ant1  |               |         |
| UNII Band I                                      | CH36           | 5180                | 13.81                       | 13.80 | 24            | Pass    |
|  | CH40           | 5200                | 13.57                       | 13.89 | 24            | Pass    |
|  | CH48           | 5240                | 13.71                       | 13.70 | 24            | Pass    |
| UNII Band III                                    | CH149          | 5745                | 9.35                        | 9.51  | 30            | Pass    |
|  | CH157          | 5785                | 9.62                        | 9.40  | 30            | Pass    |
|  | CH165          | 5825                | 10.14                       | 9.91  | 30            | Pass    |
| Note:<br>N/A (Not Applicable)                    |                |                     |                             |       |               |         |

| <input checked="" type="checkbox"/> 802.11n(VHT20) mode |                |                     |                             |       |               |             |         |
|---|----------------|---------------------|-----------------------------|-------|---------------|-------------|---------|
| Temperature :   |                | 28 °C               | Test Date :                 |       | July 07, 2017 |             |         |
| Humidity :  |                | 65 %                | Test By:                    |       | King Kong     |             |         |
| Band  | Channel Number | Channel Freq. (MHz) | Conducted Output Power(dBm) |       |               | Limit (dBm) | Verdict |
|   |                |                     | Ant0                        | Ant1  | Ant0+1        |             |         |
| UNII Band I   | CH36           | 5180                | 13.71                       | 13.58 | 16.66         | 24          | Pass    |
|   | CH40           | 5200                | 13.69                       | 13.65 | 16.68         | 24          | Pass    |
|   | CH48           | 5240                | 13.67                       | 13.71 | 16.70         | 24          | Pass    |
| UNII Band III   | CH149          | 5745                | 9.45                        | 9.28  | 12.38         | 30          | Pass    |
|   | CH157          | 5785                | 9.42                        | 9.24  | 12.34         | 30          | Pass    |
|   | CH165          | 5825                | 9.91                        | 9.77  | 12.85         | 30          | Pass    |
| Note:<br>N/A (Not Applicable)                           |                |                     |                             |       |               |             |         |

| <input checked="" type="checkbox"/> 802.11ac(VHT20) mode |                |                     |                             |       |               |             |         |
|--|----------------|---------------------|-----------------------------|-------|---------------|-------------|---------|
| Temperature :  |                | 28 °C               | Test Date :                 |       | July 07, 2017 |             |         |
| Humidity :   |                | 65 %                | Test By:                    |       | King Kong     |             |         |
| Band   | Channel Number | Channel Freq. (MHz) | Conducted Output Power(dBm) |       |               | Limit (dBm) | Verdict |
|  |                |                     | Ant0                        | Ant1  | Ant0+1        |             |         |
| UNII Band I  | CH36           | 5180                | 13.83                       | 13.68 | 16.77         | 24          | Pass    |
|  | CH40           | 5200                | 13.78                       | 13.54 | 16.67         | 24          | Pass    |
|  | CH48           | 5240                | 13.52                       | 13.68 | 16.61         | 24          | Pass    |
| UNII Band III  | CH149          | 5745                | 9.39                        | 9.37  | 12.39         | 30          | Pass    |
|  | CH157          | 5785                | 9.44                        | 9.23  | 12.35         | 30          | Pass    |
|  | CH165          | 5825                | 9.92                        | 9.83  | 12.89         | 30          | Pass    |
| Note:<br>N/A (Not Applicable)                            |                |                     |                             |       |               |             |         |

☒ 802.11n(VHT40) mode

Temperature : 28°C                      Test Date : July 07, 2017  
Humidity : 65 %                              Test By: King Kong

| Band          | Channel Number | Channel Freq. (MHz) | Conducted Output Power(dBm) |       |        | Limit (dBm) | Verdict |
|---------------|----------------|---------------------|-----------------------------|-------|--------|-------------|---------|
|               |                |                     | Ant0                        | Ant1  | Ant0+1 |             |         |
| UNII Band I   | CH38           | 5190                | 13.02                       | 13.02 | 16.03  | 24          | Pass    |
|               | CH46           | 5230                | 12.87                       | 12.81 | 15.85  | 24          | Pass    |
| UNII Band III | CH151          | 5670                | 9.61                        | 9.39  | 12.51  | 30          | Pass    |
|               | CH159          | 5795                | 10.03                       | 9.86  | 12.96  | 30          | Pass    |

Note:  
N/A (Not Applicable)

☒ 802.11ac(VHT40) mode

Temperature : 28°C                      Test Date : July 07, 2017  
Humidity : 65 %                              Test By: King Kong

| Band          | Channel Number | Channel Freq. (MHz) | Conducted Output Power(dBm) |       |        | Limit (MHz) | Verdict |
|---------------|----------------|---------------------|-----------------------------|-------|--------|-------------|---------|
|               |                |                     | Ant0                        | Ant1  | Ant0+1 |             |         |
| UNII Band I   | CH38           | 5190                | 12.99                       | 12.88 | 15.95  | 24          | Pass    |
|               | CH46           | 5230                | 13.17                       | 12.91 | 16.05  | 24          | Pass    |
| UNII Band III | CH151          | 5670                | 9.55                        | 9.34  | 12.46  | 30          | Pass    |
|               | CH159          | 5795                | 10.05                       | 9.84  | 12.96  | 30          | Pass    |

Note:  
N/A (Not Applicable)

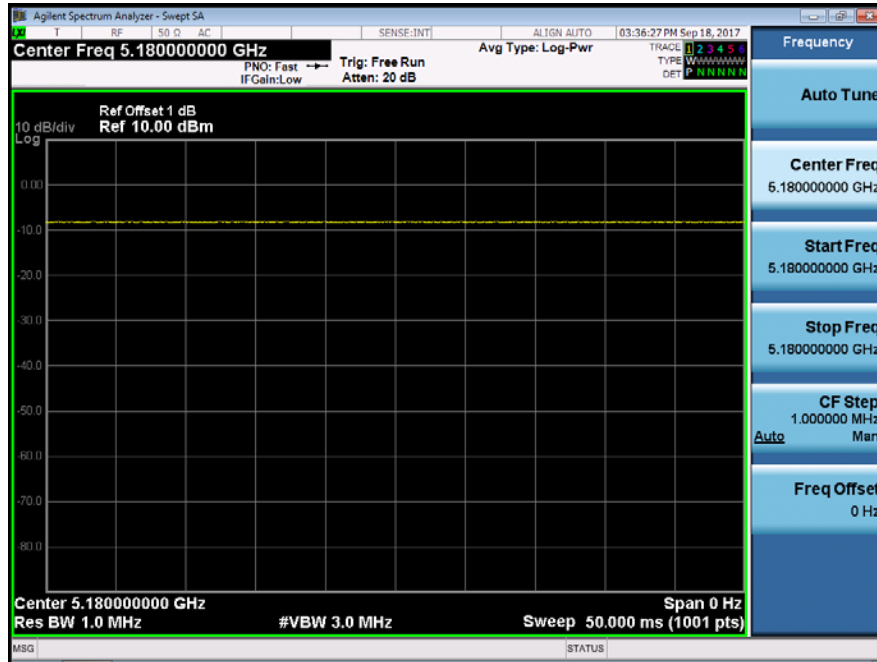
☒ 802.11ac(VHT80) mode

Temperature : 28°C                      Test Date : July 07, 2017  
Humidity : 65 %                              Test By: King Kong

| Band          | Channel Number | Channel Freq. (MHz) | Conducted Output Power(dBm) |       |        | Limit (dBm) | Verdict |
|---------------|----------------|---------------------|-----------------------------|-------|--------|-------------|---------|
|               |                |                     | Ant0                        | Ant1  | Ant0+1 |             |         |
| UNII Band I   | CH42           | 5210                | 12.23                       | 12.15 | 15.20  | 24          | Pass    |
| UNII Band III | CH155          | 5775                | 8.88                        | 8.93  | 11.92  | 30          | Pass    |

Note:  
N/A (Not Applicable)

Duty Cycle:100%



## 8.3 MAXIMUM PEAK POWER DENSITY

### 8.3.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I

According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C

According to FCC Part 15.407(a)(3) for UNII Band III

According to 789033 D02 Section II(F)

### 8.3.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor 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. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) 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. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points 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. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(b) (2) the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 8.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

### 8.3.4 Test Procedure

Methods refer to FCC KDB 789033



1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...".

2) Use the peak search function on the instrument to find the peak of the spectrum.

3) The result is the PPSD.

4) The above procedures make use of 500kHz resolution bandwidth to satisfy the 500kHz measurement bandwidth specified in the 15.407(a)(5). That rule section also permits use of resolution bandwidths less than 1 MHz "provided that the measured power is integrated to show the total power over the measurement bandwidth" (i.e., 1 MHz). If measurements are performed using a reduced resolution bandwidth and integrated over 500kHz bandwidth

Note: As a practical matter, it is recommended to use reduced RBW of 500 kHz for the sections 5.c) and 5.d) above, since RBW=500 kHz is available on nearly all spectrum analyzers.

8.3.5 Test Results

| ☒ 802.11a mode                |                |                     |                        |       |               |         |
|-------------------------------|----------------|---------------------|------------------------|-------|---------------|---------|
| Temperature :                 |                | 28 °C               | Test Date :            |       | Feb. 27, 2018 |         |
| Humidity :                    |                | 65 %                | Test By:               |       | King Kong     |         |
| Band                          | Channel Number | Channel Freq. (MHz) | Power Spectral Density |       | Limit         | Verdict |
|                               |                |                     | Ant0                   | Ant1  |               |         |
| UNII Band I                   | CH36           | 5180                | 2.94                   | 1.46  | ≤11dBm/1MHz   | Pass    |
|                               | CH40           | 5200                | 1.81                   | 1.94  | ≤11dBm/1MHz   | Pass    |
|                               | CH48           | 5240                | 1.10                   | 1.09  | ≤11dBm/1MHz   | Pass    |
| UNII Band III                 | CH149          | 5745                | -4.96                  | -4.77 | ≤30dBm/1MHz   | Pass    |
|                               | CH157          | 5785                | -4.75                  | -3.68 | ≤30dBm/1MHz   | Pass    |
|                               | CH165          | 5825                | -3.94                  | -4.00 | ≤30dBm/1MHz   | Pass    |
| Note:<br>N/A (Not Applicable) |                |                     |                        |       |               |         |

| ☒ 802.11n(VHT20) mode         |                |                     |                        |       |               |             |         |
|-------------------------------|----------------|---------------------|------------------------|-------|---------------|-------------|---------|
| Temperature :                 |                | 28 °C               | Test Date :            |       | Feb. 27, 2018 |             |         |
| Humidity :                    |                | 65 %                | Test By:               |       | King Kong     |             |         |
| Band                          | Channel Number | Channel Freq. (MHz) | Power Spectral Density |       |               | Limit       | Verdict |
|                               |                |                     | Ant0                   | Ant1  | Ant0+1        |             |         |
| UNII Band I                   | CH36           | 5180                | 2.18                   | 2.36  | 5.28          | ≤11dBm/1MHz | Pass    |
|                               | CH40           | 5200                | 2.20                   | 2.19  | 5.21          | ≤11dBm/1MHz | Pass    |
|                               | CH48           | 5240                | 1.98                   | 1.80  | 4.90          | ≤11dBm/1MHz | Pass    |
| UNII Band III                 | CH149          | 5745                | -4.98                  | -6.23 | -2.55         | ≤30dBm/1MHz | Pass    |
|                               | CH157          | 5785                | -5.04                  | -5.36 | -2.19         | ≤30dBm/1MHz | Pass    |
|                               | CH165          | 5825                | -4.20                  | -4.33 | -1.25         | ≤30dBm/1MHz | Pass    |
| Note:<br>N/A (Not Applicable) |                |                     |                        |       |               |             |         |

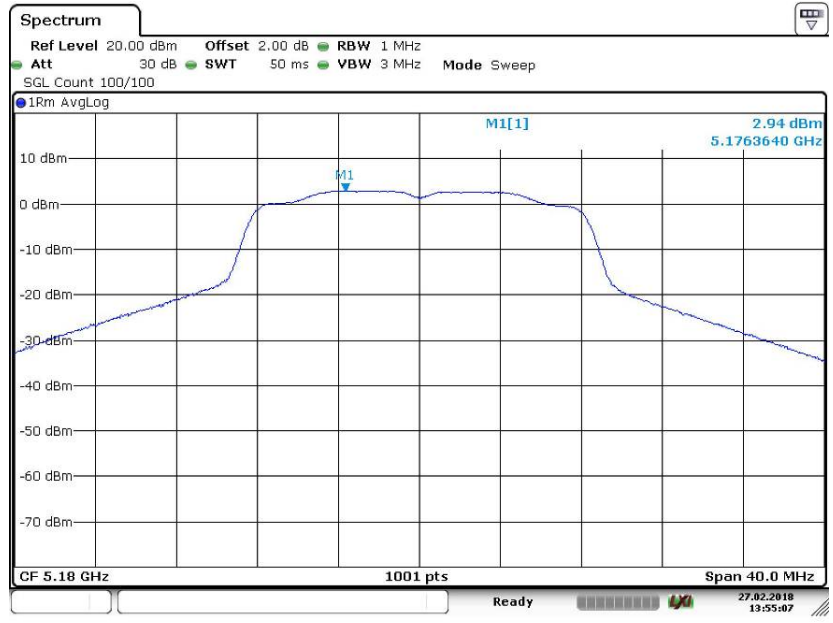
| ☒ 802.11ac(VHT20) mode        |                |                     |                        |       |               |             |         |
|-------------------------------|----------------|---------------------|------------------------|-------|---------------|-------------|---------|
| Temperature :                 |                | 28 °C               | Test Date :            |       | Feb. 27, 2018 |             |         |
| Humidity :                    |                | 65 %                | Test By:               |       | King Kong     |             |         |
| Band                          | Channel Number | Channel Freq. (MHz) | Power Spectral Density |       |               | Limit       | Verdict |
|                               |                |                     | Ant0                   | Ant1  | Ant0+1        |             |         |
| UNII Band I                   | CH36           | 5180                | 1.02                   | 1.31  | 4.18          | ≤11dBm/1MHz | Pass    |
|                               | CH40           | 5200                | 1.49                   | 1.64  | 4.58          | ≤11dBm/1MHz | Pass    |
|                               | CH48           | 5240                | 1.24                   | 0.32  | 3.81          | ≤11dBm/1MHz | Pass    |
| UNII Band III                 | CH149          | 5745                | -5.25                  | -4.95 | -2.09         | ≤30dBm/1MHz | Pass    |
|                               | CH157          | 5785                | -5.12                  | -5.05 | -2.07         | ≤30dBm/1MHz | Pass    |
|                               | CH165          | 5825                | -4.78                  | -5.03 | -1.89         | ≤30dBm/1MHz | Pass    |
| Note:<br>N/A (Not Applicable) |                |                     |                        |       |               |             |         |

| <input checked="" type="checkbox"/> 802.11n(VHT40) mode |                |                     |                        |       |        |             |         |
|---|----------------|---------------------|------------------------|-------|--------|-------------|---------|
| Temperature :   | 28 °C          | Test Date :         | Feb. 27, 2018          |       |        |             |         |
| Humidity :  | 65 %           | Test By:            | King Kong              |       |        |             |         |
| Band  | Channel Number | Channel Freq. (MHz) | Power Spectral Density |       |        | Limit       | Verdict |
|   |                |                     | Ant0                   | Ant1  | Ant0+1 |             |         |
| UNII Band I   | CH38           | 5190                | -1.58                  | -1.62 | 1.410  | ≤11dBm/1MHz | Pass    |
|   | CH46           | 5230                | -2.52                  | -2.93 | 0.290  | ≤11dBm/1MHz | Pass    |
| UNII Band III   | CH151          | 5670                | -7.96                  | -7.43 | -4.677 | ≤30dBm/1MHz | Pass    |
|   | CH159          | 5795                | -7.08                  | -6.77 | -3.912 | ≤30dBm/1MHz | Pass    |
| Note:<br>N/A (Not Applicable)                           |                |                     |                        |       |        |             |         |

| <input checked="" type="checkbox"/> 802.11ac(VHT40) mode |                |                     |                        |       |        |             |         |
|--|----------------|---------------------|------------------------|-------|--------|-------------|---------|
| Temperature :  | 28 °C          | Test Date :         | Feb. 27, 2018          |       |        |             |         |
| Humidity :   | 65 %           | Test By:            | King Kong              |       |        |             |         |
| Band   | Channel Number | Channel Freq. (MHz) | Power Spectral Density |       |        | Limit       | Verdict |
|  |                |                     | Ant0                   | Ant1  | Ant0+1 |             |         |
| UNII Band I  | CH38           | 5190                | -2.29                  | -1.41 | 1.183  | ≤11dBm/1MHz | Pass    |
|  | CH46           | 5230                | -2.18                  | -2.69 | 0.583  | ≤11dBm/1MHz | Pass    |
| UNII Band III  | CH151          | 5670                | -8.95                  | -8.35 | -5.629 | ≤30dBm/1MHz | Pass    |
|  | CH159          | 5795                | -7.8                   | -7.79 | -4.785 | ≤30dBm/1MHz | Pass    |
| Note:<br>N/A (Not Applicable)                            |                |                     |                        |       |        |             |         |

| <input checked="" type="checkbox"/> 802.11ac(VHT80) mode |                |                     |                        |        |        |             |         |
|--|----------------|---------------------|------------------------|--------|--------|-------------|---------|
| Temperature :  | 28 °C          | Test Date :         | Feb. 27, 2018          |        |        |             |         |
| Humidity :   | 65 %           | Test By:            | King Kong              |        |        |             |         |
| Band   | Channel Number | Channel Freq. (MHz) | Power Spectral Density |        |        | Limit       | Verdict |
|  |                |                     | Ant0                   | Ant1   | Ant0+1 |             |         |
| UNII Band I  | CH42           | 5210                | -6.88                  | -7.38  | -4.113 | ≤11dBm/1MHz | Pass    |
| UNII Band III  | CH155          | 5775                | -10.74                 | -11.34 | -8.019 | ≤30dBm/1MHz | Pass    |
| Note:<br>N/A (Not Applicable)                            |                |                     |                        |        |        |             |         |

|                        |                |      |
|------------------------|----------------|------|
| Power Spectral Density | UNII Band I    |      |
| Test Model 802.11a     | Frequency(MHz) | 5180 |
| Ant0                   |                |      |



Date: 27.FEB.2018 13:55:07

|                        |                |      |
|------------------------|----------------|------|
| Power Spectral Density | UNII Band I    |      |
| Test Model 802.11a     | Frequency(MHz) | 5200 |
| Ant0                   |                |      |



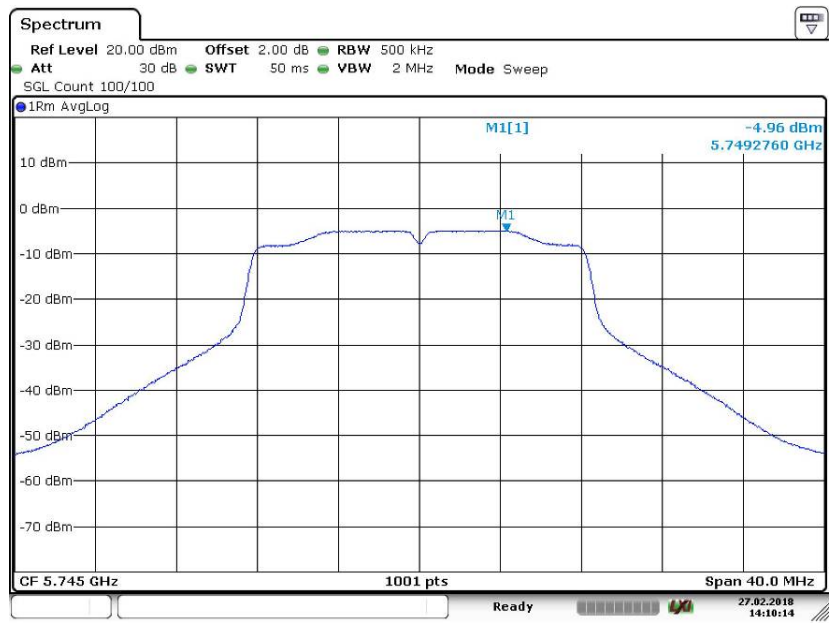
Date: 27.FEB.2018 13:56:40

|                        |             |                |
|------------------------|-------------|----------------|
| Power Spectral Density | UNII Band I |                |
| Test Model             | 802.11a     | Frequency(MHz) |
| Ant0                   |             | 5240           |



Date: 27.FEB.2018 14:08:00

|                        |               |                |
|------------------------|---------------|----------------|
| Power Spectral Density | UNII Band III |                |
| Test Model             | 802.11a       | Frequency(MHz) |
| Ant0                   |               | 5745           |



Date: 27.FEB.2018 14:10:15

|                        |                |      |
|------------------------|----------------|------|
| Power Spectral Density | UNII Band III  |      |
| Test Model 802.11a     | Frequency(MHz) | 5785 |
| Ant0                   |                |      |



Date: 27.FEB.2018 14:12:19

|                        |                |      |
|------------------------|----------------|------|
| Power Spectral Density | UNII Band III  |      |
| Test Model 802.11a     | Frequency(MHz) | 5825 |
| Ant0                   |                |      |



Date: 27.FEB.2018 14:13:44

|                        |                     |                |
|------------------------|---------------------|----------------|
| Power Spectral Density | UNII Band I         |                |
| Test Model             | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant0                   |                     | 5180           |



Date: 27.FEB.2018 14:16:34

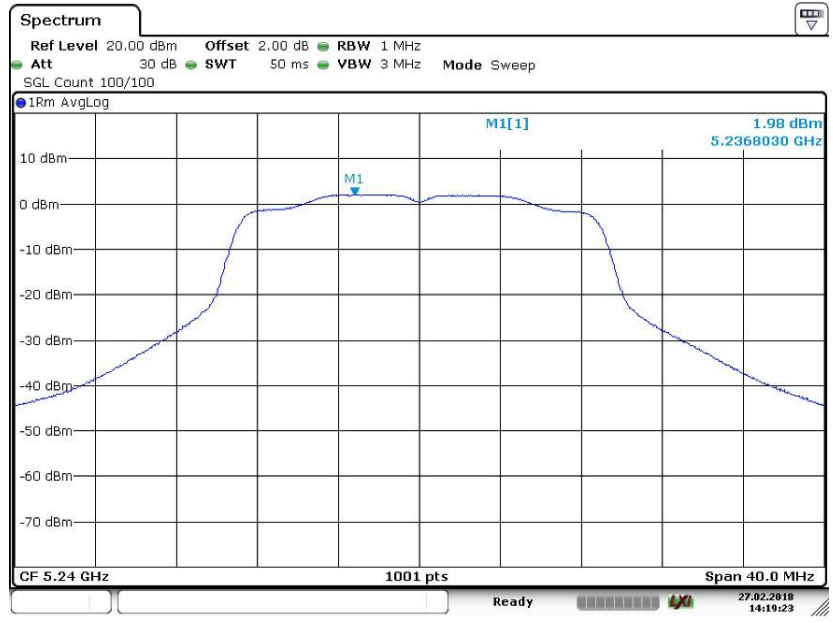
|                        |                     |                |
|------------------------|---------------------|----------------|
| Power Spectral Density | UNII Band I         |                |
| Test Model             | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant0                   |                     | 5200           |



Date: 27.FEB.2018 14:17:42

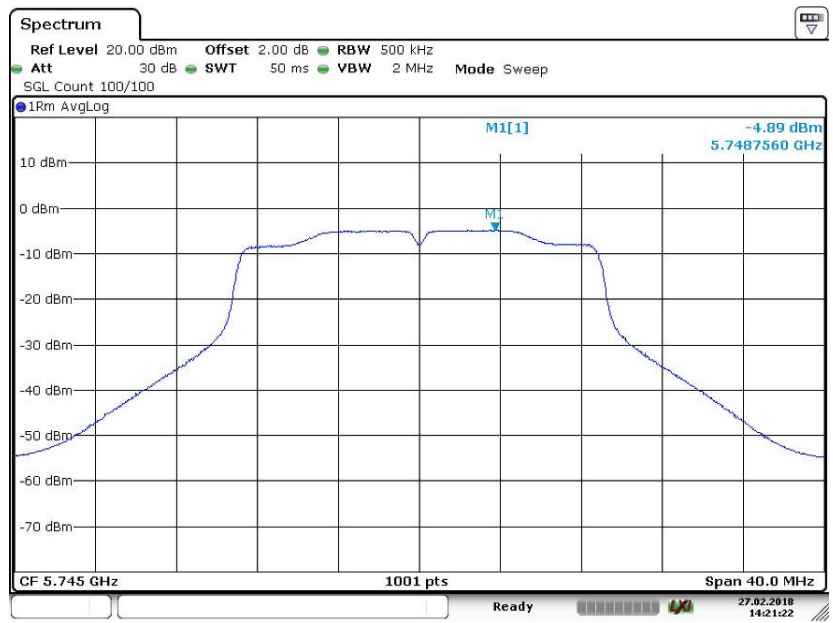


|                        |                     |                |
|------------------------|---------------------|----------------|
| Power Spectral Density | UNII Band I         |                |
| Test Model             | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant0                   |                     | 5240           |



Date: 27.FEB.2018 14:19:23

|                        |                     |                |
|------------------------|---------------------|----------------|
| Power Spectral Density | UNII Band III       |                |
| Test Model             | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant0                   |                     | 5745           |



Date: 27.FEB.2018 14:21:22

|                        |                     |                |
|------------------------|---------------------|----------------|
| Power Spectral Density | UNII Band III       |                |
| Test Model             | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant0                   |                     | 5785           |



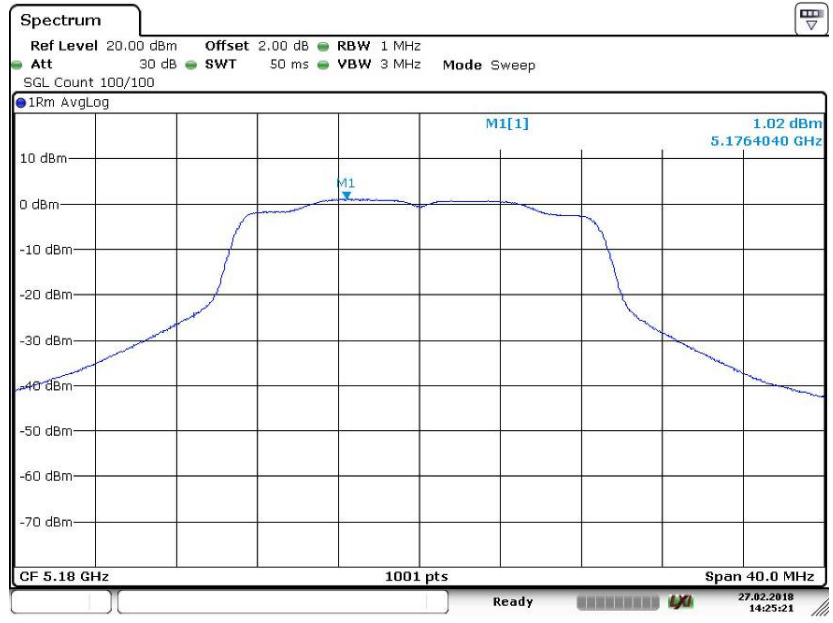
Date: 27.FEB.2018 14:22:25

|                        |                     |                |
|------------------------|---------------------|----------------|
| Power Spectral Density | UNII Band III       |                |
| Test Model             | 802.11n(VHT20) mode | Frequency(MHz) |
| Ant0                   |                     | 5825           |



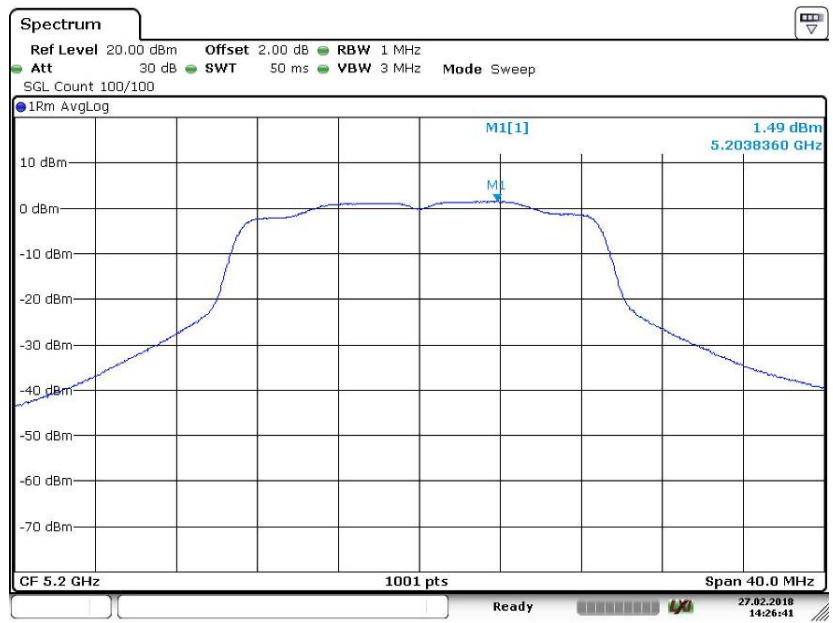
Date: 27.FEB.2018 14:23:31

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band I          |                |
| Test Model             | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant0                   |                      | 5180           |



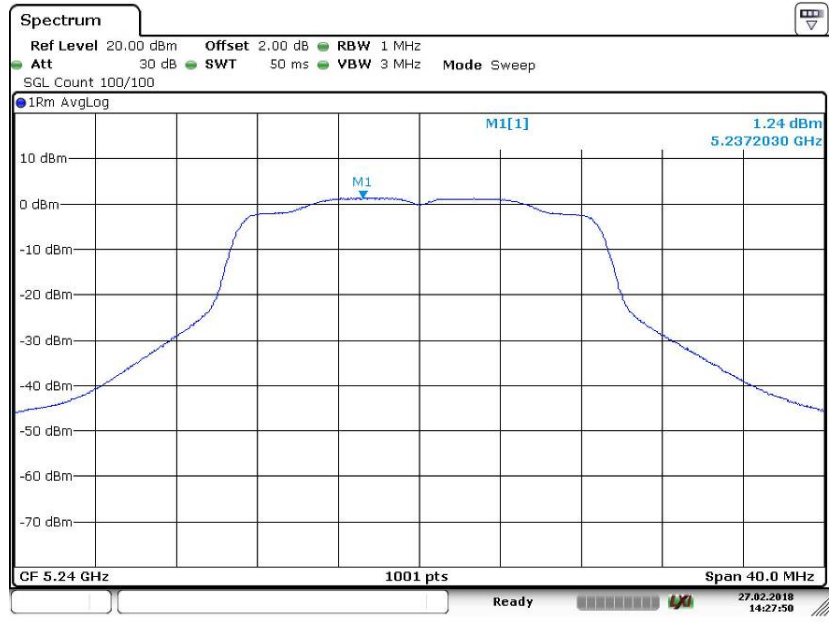
Date: 27.FEB.2018 14:25:21

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band I          |                |
| Test Model             | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant0                   |                      | 5200           |



Date: 27.FEB.2018 14:26:41

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band I          |                |
| Test Model             | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant0                   |                      | 5240           |



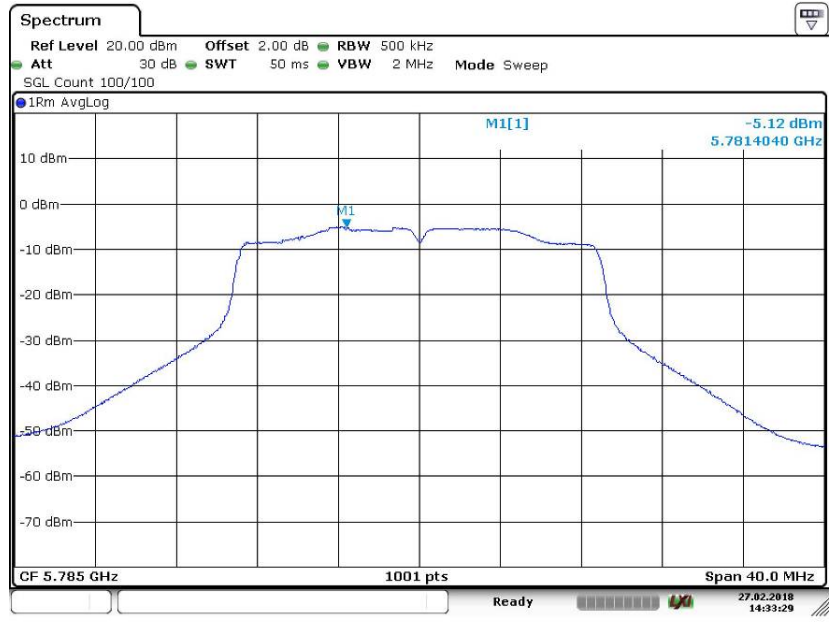
Date: 27.FEB.2018 14:27:50

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band III        |                |
| Test Model             | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant0                   |                      | 5745           |



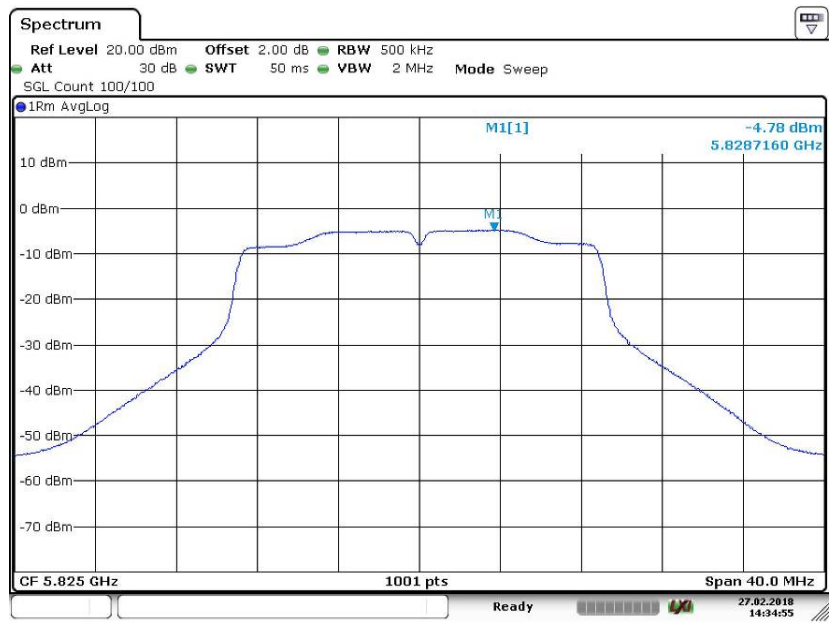
Date: 27.FEB.2018 14:32:31

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band III        |                |
| Test Model             | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant0                   |                      | 5785           |



Date: 27.FEB.2018 14:33:28

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band III        |                |
| Test Model             | 802.11ac(VHT20) mode | Frequency(MHz) |
| Ant0                   |                      | 5825           |



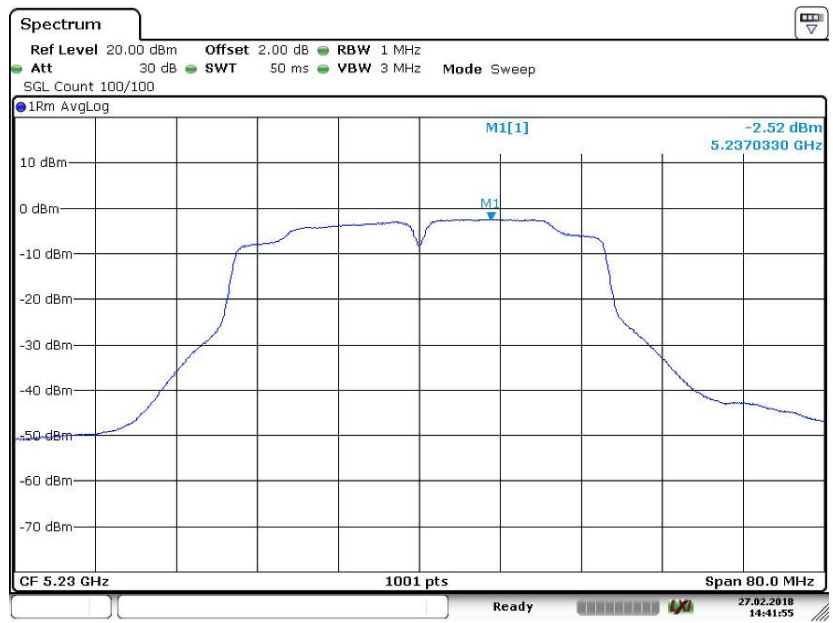
Date: 27.FEB.2018 14:34:55

|                        |                     |                |
|------------------------|---------------------|----------------|
| Power Spectral Density | UNII Band I         |                |
| Test Model             | 802.11n(VHT40) mode | Frequency(MHz) |
| Ant0                   |                     | 5190           |



Date: 27.FEB.2018 14:40:02

|                        |                     |                |
|------------------------|---------------------|----------------|
| Power Spectral Density | UNII Band I         |                |
| Test Model             | 802.11n(VHT40) mode | Frequency(MHz) |
| Ant0                   |                     | 5230           |



Date: 27.FEB.2018 14:41:54

Power Spectral Density UNII Band III  
 Test Model 802.11n(VHT40) mode Frequency(MHz) 5755  
 Ant0



Date: 27.FEB.2018 14:43:32

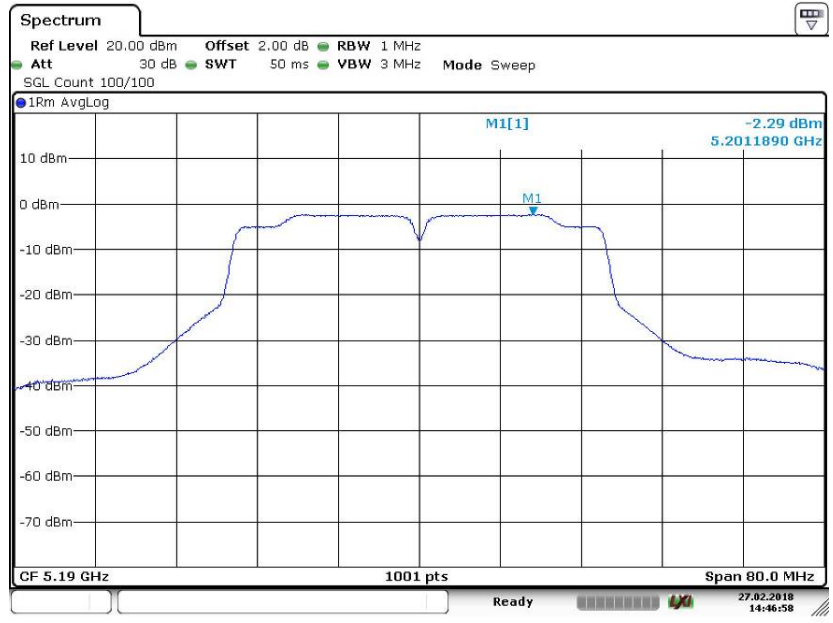
Power Spectral Density UNII Band III  
 Test Model 802.11n(VHT40) mode Frequency(MHz) 5795  
 Ant0



Date: 27.FEB.2018 14:44:24

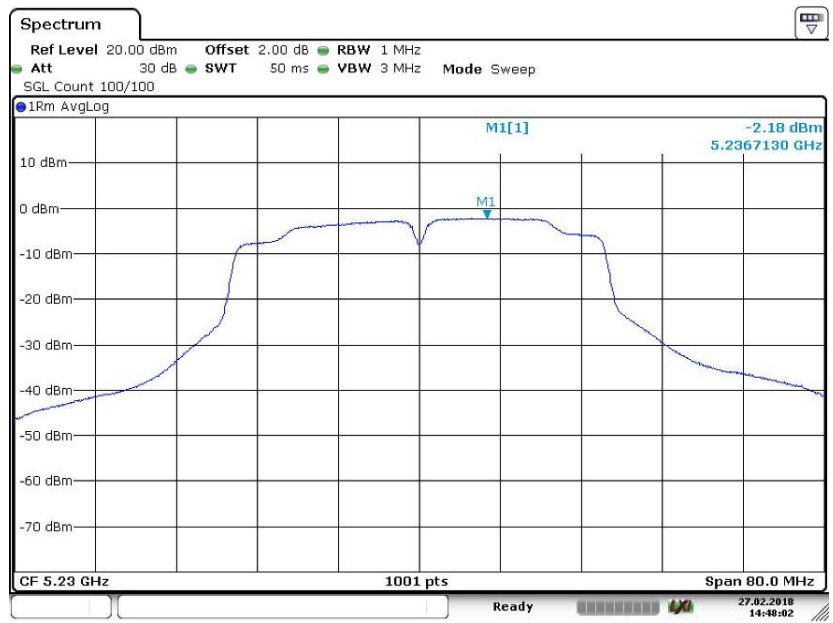


|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band I          |                |
| Test Model             | 802.11ac(VHT40) mode | Frequency(MHz) |
| Ant0                   |                      | 5190           |



Date: 27.FEB.2018 14:46:58

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band I          |                |
| Test Model             | 802.11ac(VHT40) mode | Frequency(MHz) |
| Ant0                   |                      | 5230           |



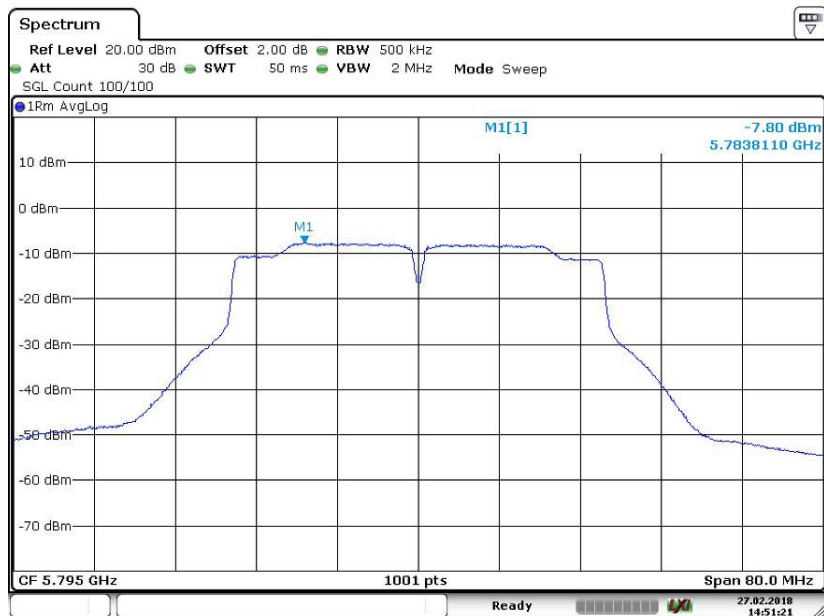
Date: 27.FEB.2018 14:48:02

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band III        |                |
| Test Model             | 802.11ac(VHT40) mode | Frequency(MHz) |
| Ant0                   |                      | 5755           |



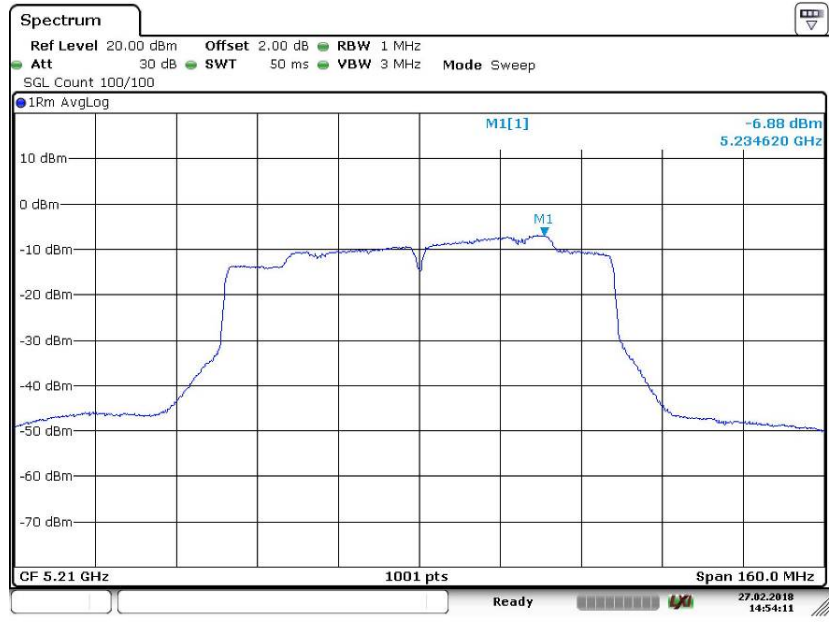
Date: 27.FEB.2018 14:50:19

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band III        |                |
| Test Model             | 802.11ac(VHT40) mode | Frequency(MHz) |
| Ant0                   |                      | 5795           |



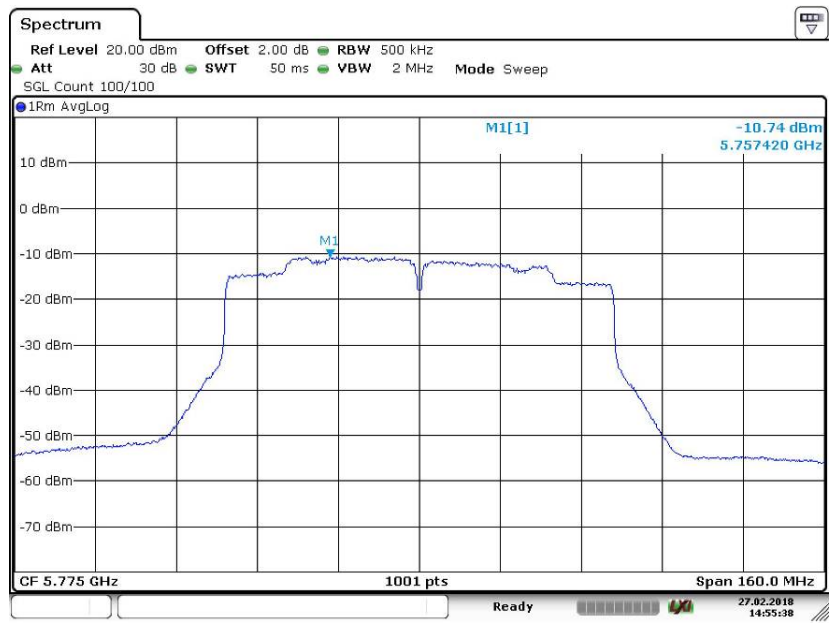
Date: 27.FEB.2018 14:51:21

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band I          |                |
| Test Model             | 802.11ac(VHT80) mode | Frequency(MHz) |
| Ant0                   |                      | 5210           |



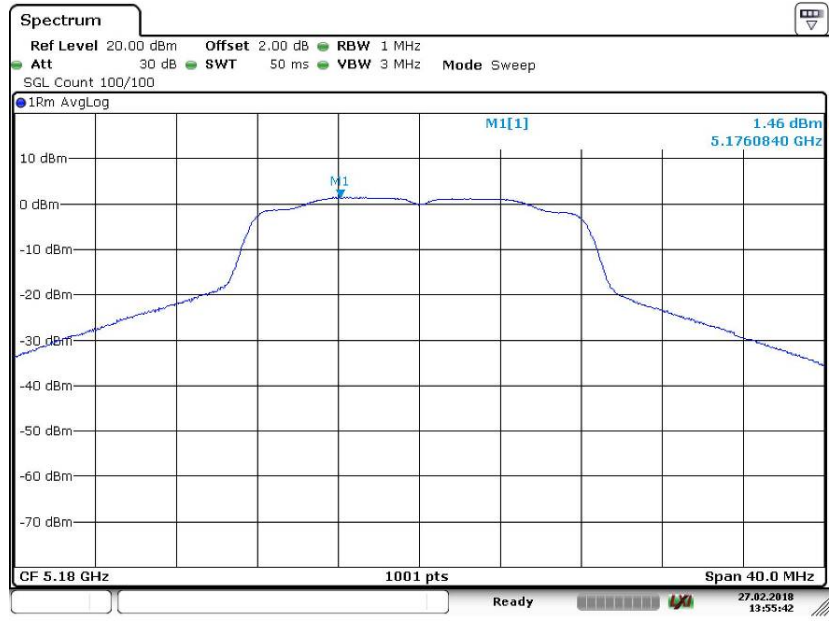
Date: 27.FEB.2018 14:54:11

|                        |                      |                |
|------------------------|----------------------|----------------|
| Power Spectral Density | UNII Band III        |                |
| Test Model             | 802.11ac(VHT80) mode | Frequency(MHz) |
| Ant0                   |                      | 5775           |



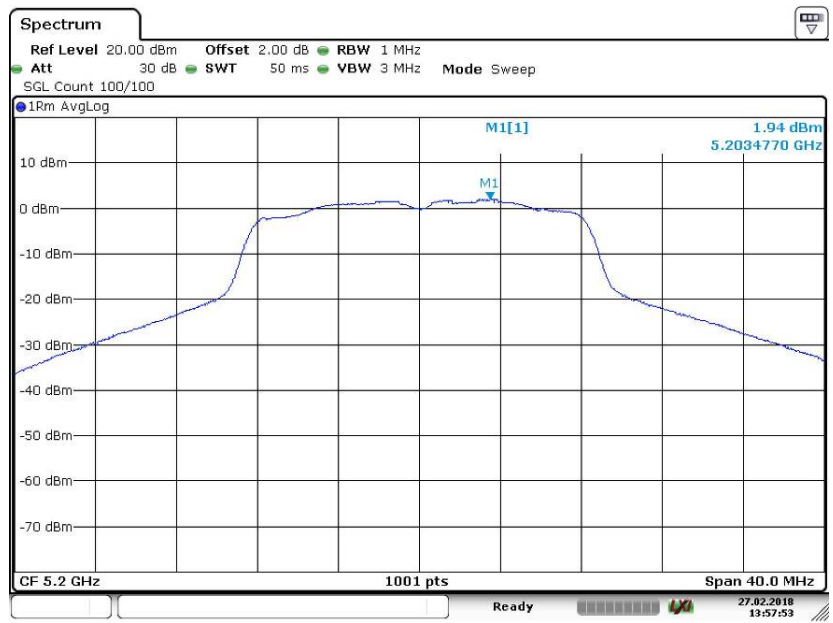
Date: 27.FEB.2018 14:55:38

|                        |                |      |
|------------------------|----------------|------|
| Power Spectral Density | UNII Band I    |      |
| Test Model 802.11a     | Frequency(MHz) | 5180 |
| Ant1                   |                |      |



Date: 27.FEB.2018 13:55:43

|                        |                |      |
|------------------------|----------------|------|
| Power Spectral Density | UNII Band I    |      |
| Test Model 802.11a     | Frequency(MHz) | 5200 |
| Ant1                   |                |      |



Date: 27.FEB.2018 13:57:54