

## 9.4. OUTPUT POWER AND PSD

### LIMITS

#### **FCC §15.407**

##### **Band 5.15–5.25 GHz (pick the section that applies to your product)**

(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. 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.

##### **Bands 5.25-5.35 GHz and 5.47-5.725 GHz**

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 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.

##### **Band 5.725-5.85 GHz**

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

### TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G).

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F.

For all straddle channels, full bandwidth power is reported in the 5.6GHz section. The combined 5.6GHz and 5.8GHz power already passed the worst case 5.6GHz 24dBm limit, therefore there is no need to provide the 5.8GHz power.

11n HT20 and 11ax HE20 straddle channel 26dB bandwidth= (26dB BW/2)+5

11n HT20 and 11ax HE20 straddle channel 99% bandwidth= (99% BW/2)+5

### **DIRECTIONAL ANTENNA GAIN**

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

| <b>Band<br/>(GHz)</b> | <b>ANT 6<br/>Gain<br/>(dBi)</b> | <b>ANT 5<br/>Gain<br/>(dBi)</b> | <b>Uncorrelated Chains<br/>Directional<br/>Gain<br/>(dBi)</b> | <b>Correlated Chains<br/>Directional<br/>Gain<br/>(dBi)</b> |
|-----------------------|---------------------------------|---------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|
| 5.2                   | 0.3                             | -2.6                            | -0.91                                                         | 1.98                                                        |
| 5.3                   | 1.4                             | -1.2                            | 0.29                                                          | 3.21                                                        |
| 5.6                   | 0.6                             | -0.2                            | 0.22                                                          | 3.22                                                        |
| 5.8                   | -0.6                            | -1.7                            | -1.12                                                         | 1.88                                                        |

## 9.4.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND

### 1TX ANT 6 MODE (FCC) MOBILE

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

#### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|------------------------------|-------------------------|-----------------------------|
| Low     | 5180               | 0.30                         | 24.00                   | 11.00                       |
| Mid     | 5200               | 0.30                         | 24.00                   | 11.00                       |
| High    | 5240               | 0.30                         | 24.00                   | 11.00                       |

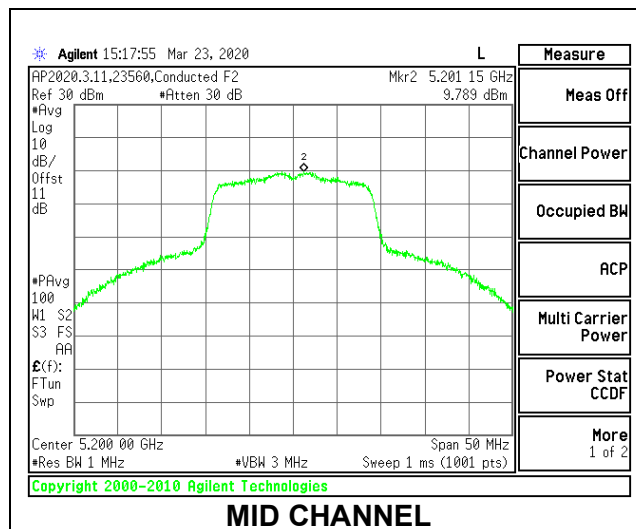
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 18.22                               | 18.22                             | 24.00                   | -5.78                   |
| Mid     | 5200               | 18.25                               | 18.25                             | 24.00                   | -5.75                   |
| High    | 5240               | 18.23                               | 18.23                             | 24.00                   | -5.77                   |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5180               | 8.786                                  | 8.786                                | 11.00                       | -2.214                |
| Mid     | 5200               | 9.789                                  | 9.789                                | 11.00                       | -1.211                |
| High    | 5240               | 9.753                                  | 9.753                                | 11.00                       | -1.247                |



Note: 5200MHz and 5240MHz were tested at higher power

# 1TX ANT 5 MODE (FCC) MOBILE

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

## Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|------------------------------|-------------------------|-----------------------------|
| Low     | 5180               | -2.60                        | 24.00                   | 11.00                       |
| Mid     | 5200               | -2.60                        | 24.00                   | 11.00                       |
| High    | 5240               | -2.60                        | 24.00                   | 11.00                       |

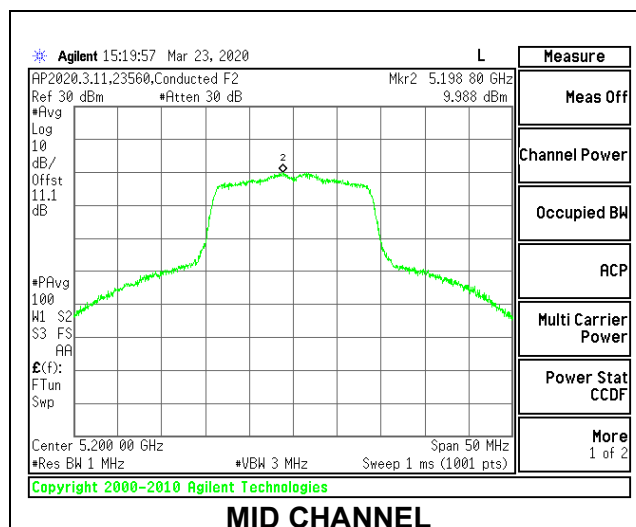
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

## Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 18.24                               | 18.24                             | 24.00                   | -5.76                   |
| Mid     | 5200               | 19.62                               | 19.62                             | 24.00                   | -4.38                   |
| High    | 5240               | 19.58                               | 19.58                             | 24.00                   | -4.42                   |

## PSD Results

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5180               | 8.667                                  | 8.667                                | 11.00                       | -2.333                |
| Mid     | 5200               | 9.988                                  | 9.988                                | 11.00                       | -1.012                |
| High    | 5240               | 9.944                                  | 9.944                                | 11.00                       | -1.056                |



## 2TX ANT 6 + ANT 5 CDD MODE (FCC) MOBILE

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|-----------------------------|
| Low     | 5180               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                       |
| Mid     | 5200               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                       |
| High    | 5240               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                       |

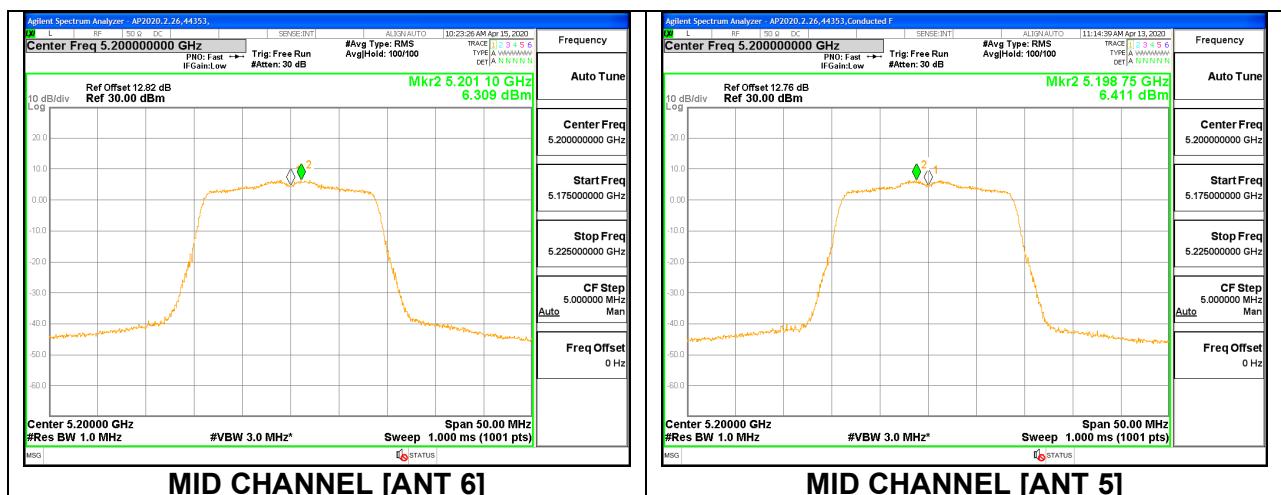
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 16.56                               | 16.60                               | 19.59                             | 24.00                   | -4.41                   |
| Mid     | 5200               | 16.59                               | 16.55                               | 19.58                             | 24.00                   | -4.42                   |
| High    | 5240               | 16.66                               | 16.57                               | 19.63                             | 24.00                   | -4.37                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5180               | 6.306                                  | 6.459                                  | 9.393                                | 11.00                       | -1.607                |
| Mid     | 5200               | 6.309                                  | 6.411                                  | 9.371                                | 11.00                       | -1.629                |
| High    | 5240               | 6.381                                  | 6.453                                  | 9.427                                | 11.00                       | -1.573                |



## 9.4.2. 802.11n HT40 MODE IN THE 5.2 GHz BAND

### 1TX ANT 6 MODE (FCC) MOBILE

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

#### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|-----------------------------|
| Low     | 5190               | 0.30                                      | 24.00                   | 11.00                       |
| High    | 5230               | 0.30                                      | 24.00                   | 11.00                       |

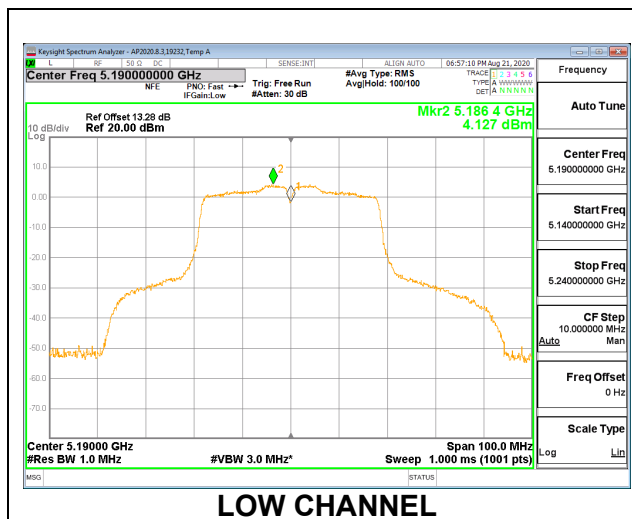
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.14 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 16.74                               | 16.74                             | 24.00                   | -7.26                   |
| High    | 5230               | 18.23                               | 18.23                             | 24.00                   | -5.77                   |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5190               | 4.127                                  | 4.267                                | 11.00                       | -6.733                |
| High    | 5230               | 8.669                                  | 8.809                                | 11.00                       | -2.191                |



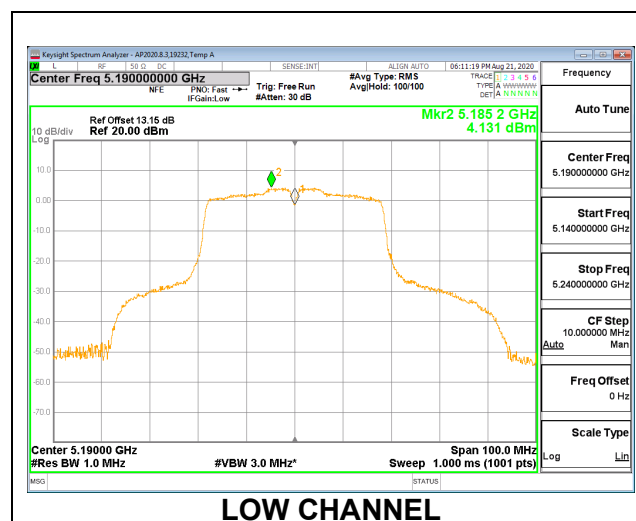
|                       |            |
|-----------------------|------------|
| <b>Test Engineer:</b> | 12485 GA   |
| <b>Test Date:</b>     | 08/04/2020 |

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|-----------------------------|
| Low     | 5190               | -2.60                                     | 24.00                   | 11.00                       |
| High    | 5230               | -2.60                                     | 24.00                   | 11.00                       |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.14 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 16.73                               | 16.73                             | 24.00                   | -7.27                   |
| High    | 5230               | 20.69                               | 20.69                             | 24.00                   | -3.31                   |

| Channel | Frequency | Antenna 5<br>Meas<br>PSD | Total<br>Corr'd<br>PSD | PSD<br>Limit | PSD<br>Margin |
|---------|-----------|--------------------------|------------------------|--------------|---------------|
|         | (MHz)     | (dBm/1MHz)               | (dBm/1MHz)             | (dBm/ 1MHz)  | (dB)          |
| Low     | 5190      | 4.131                    | 4.271                  | 11.00        | -6.729        |
| High    | 5230      | 8.669                    | 8.809                  | 11.00        | -2.191        |



## 2TX ANT 6 + ANT 5 CDD MODE (FCC) MOBILE

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|-----------------------------|
| Low     | 5190               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                       |
| High    | 5230               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                       |

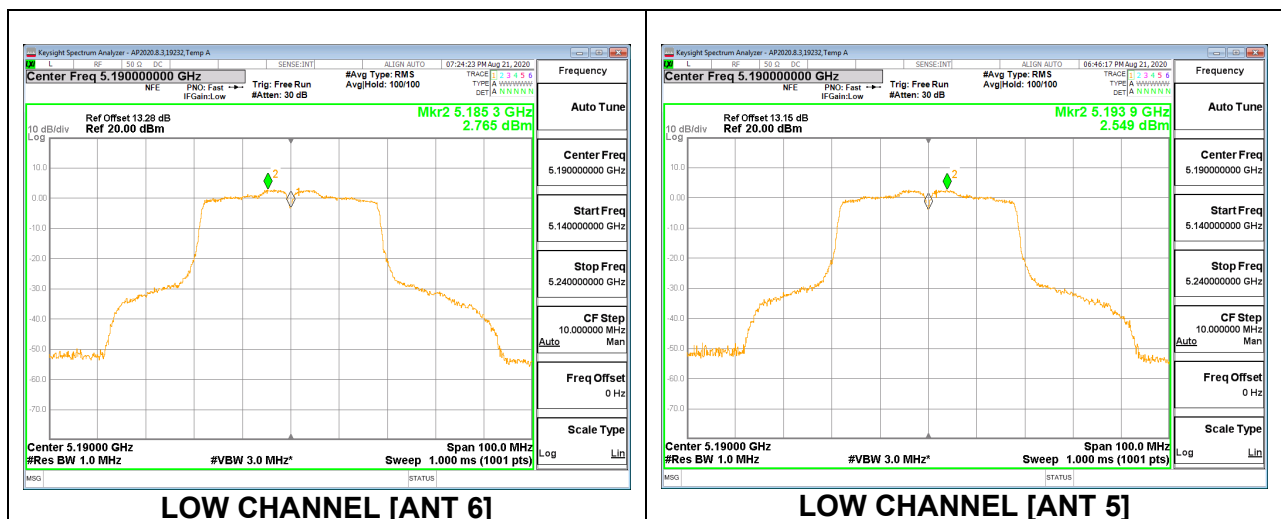
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.17 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 15.22                               | 15.25                               | 18.25                             | 24.00                   | -5.75                   |
| High    | 5230               | 18.21                               | 19.69                               | 22.02                             | 24.00                   | -1.98                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5190               | 2.734                                  | 2.549                                  | 5.823                                | 11.00                       | -5.177                |
| High    | 5230               | 6.661                                  | 6.681                                  | 9.851                                | 11.00                       | -1.149                |



NOTE: 5230MHz (Ant 6) measured at higher power

### 9.4.3. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

#### 1TX ANT 6 MODE (FCC) MOBILE

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

#### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|-----------------------------|
| Mid     | 5210               | 0.30                                      | 24.00                   | 11.00                       |

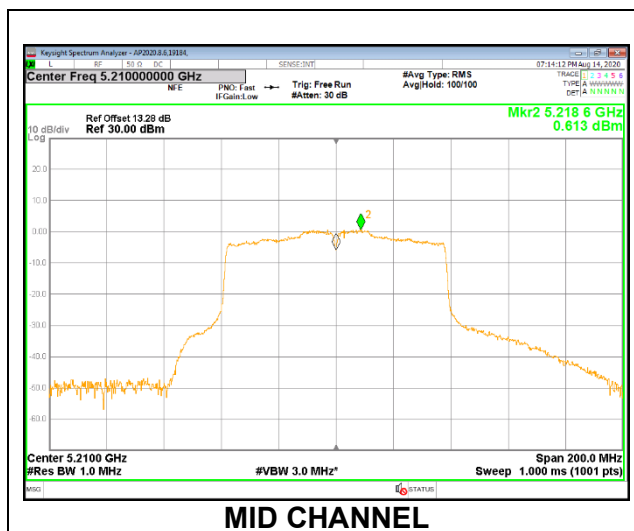
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.22 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 16.24                               | 16.24                             | 24.00                   | -7.76                   |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Mid     | 5210               | 0.613                                  | 0.833                                | 11.00                       | -10.167               |



# **1TX ANT 5 MODE (FCC) MOBILE**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/04/2020 |

## **Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|-----------------------------|
| Mid     | 5210               | -2.60                                     | 24.00                   | 11.00                       |

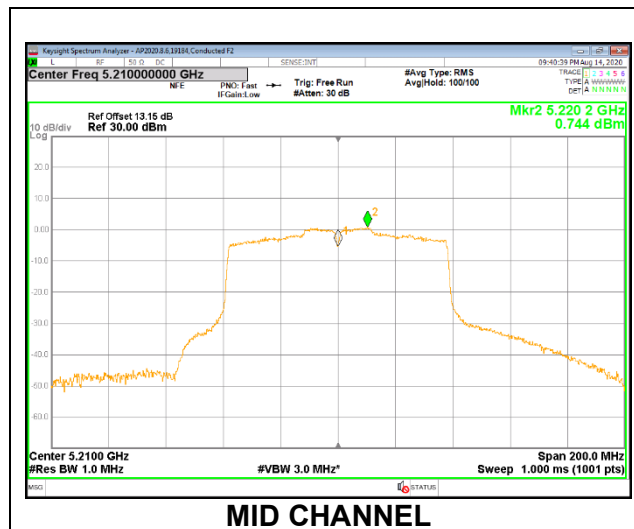
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.22 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

## **Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 16.25                               | 16.25                             | 24.00                   | -7.75                   |

## **PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Mid     | 5210               | 0.744                                  | 0.964                                | 11.00                       | -10.036               |



## 2TX ANT 6 + ANT 5 CDD MODE (FCC) MOBILE

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5210               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

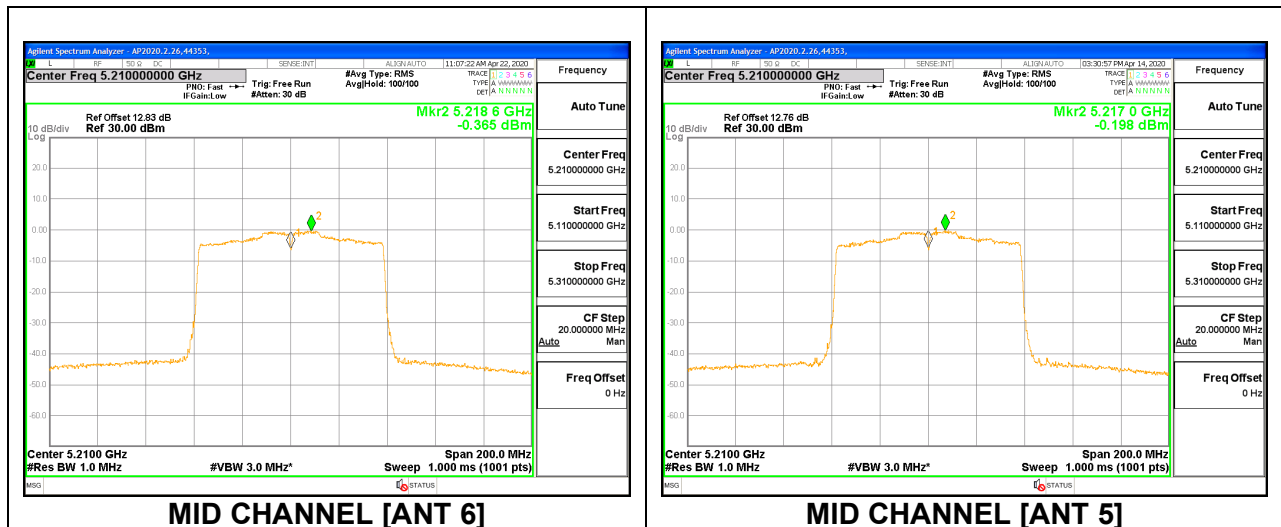
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.33 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5210               | 15.31                               | 15.29                               | 18.31                             | 24.00                   | -5.69                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/ 1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|---------------------------------------|-----------------------------|-----------------------|
| Low     | 5210               | -0.365                                 | -0.198                                 | 3.060                                 | 11.00                       | -7.940                |



#### 9.4.4. 802.11ax HE20 MODE IN THE 5.2 GHz BAND

##### 1TX ANT 6 MODE (FCC) MOBILE: 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

##### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|------------------------------|-------------------------|-----------------------------|
| Low     | 5180               | 0.30                         | 24.00                   | 11.00                       |
| Mid     | 5200               | 0.30                         | 24.00                   | 11.00                       |
| High    | 5240               | 0.30                         | 24.00                   | 11.00                       |

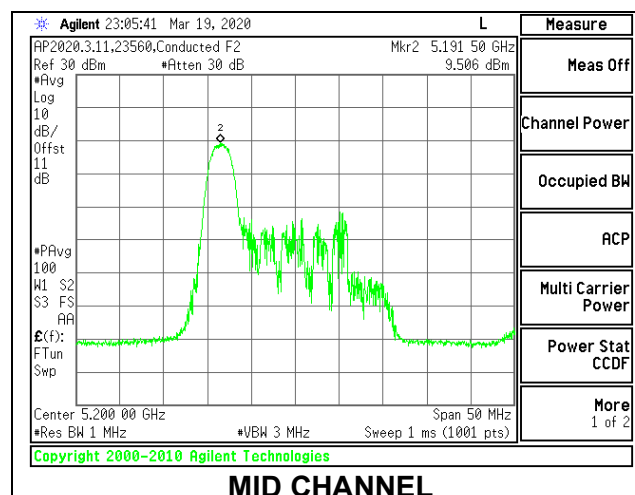
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

##### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 11.65                               | 11.65                             | 24.00                   | -12.35                  |
| Mid     | 5200               | 11.63                               | 11.63                             | 24.00                   | -12.37                  |
| High    | 5240               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |

##### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5180               | 9.092                                  | 9.092                                | 11.00                       | -1.908                |
| Mid     | 5200               | 9.506                                  | 9.506                                | 11.00                       | -1.494                |
| High    | 5240               | 9.535                                  | 9.535                                | 11.00                       | -1.465                |



**1TX ANT 6 MODE (FCC) MOBILE: 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|------------------------------|-------------------------|-----------------------------|
| Low     | 5180               | 0.30                         | 24.00                   | 11.00                       |
| Mid     | 5200               | 0.30                         | 24.00                   | 11.00                       |
| High    | 5240               | 0.30                         | 24.00                   | 11.00                       |

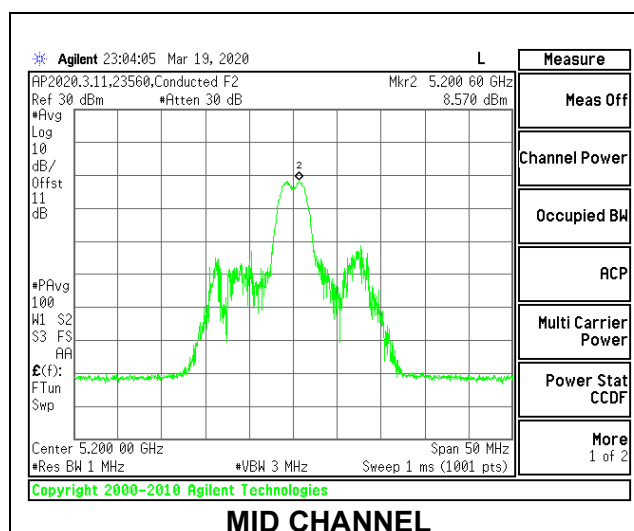
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 11.63                               | 11.63                             | 24.00                   | -12.37                  |
| Mid     | 5200               | 11.64                               | 11.64                             | 24.00                   | -12.36                  |
| High    | 5240               | 11.69                               | 11.69                             | 24.00                   | -12.31                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5180               | 8.564                                  | 8.564                                | 11.00                       | -2.436                |
| Mid     | 5200               | 8.570                                  | 8.570                                | 11.00                       | -2.430                |
| High    | 5240               | 8.396                                  | 8.396                                | 11.00                       | -2.604                |



**1TX ANT 6 MODE (FCC) MOBILE: 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|------------------------------|-------------------------|-----------------------------|
| Low     | 5180               | 0.30                         | 24.00                   | 11.00                       |
| Mid     | 5200               | 0.30                         | 24.00                   | 11.00                       |
| High    | 5240               | 0.30                         | 24.00                   | 11.00                       |

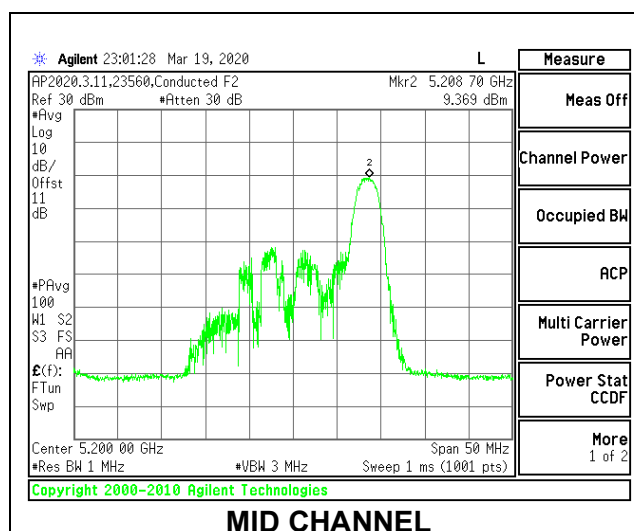
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 11.67                               | 11.67                             | 24.00                   | -12.33                  |
| Mid     | 5200               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| High    | 5240               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5180               | 9.555                                  | 9.555                                | 11.00                       | -1.445                |
| Mid     | 5200               | 9.369                                  | 9.369                                | 11.00                       | -1.631                |
| High    | 5240               | 8.944                                  | 8.944                                | 11.00                       | -2.056                |



**1TX ANT 6 MODE (FCC) MOBILE: 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|------------------------------|-------------------------|-----------------------------|
| Low     | 5180               | 0.30                         | 24.00                   | 11.00                       |
| Mid     | 5200               | 0.30                         | 24.00                   | 11.00                       |
| High    | 5240               | 0.30                         | 24.00                   | 11.00                       |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

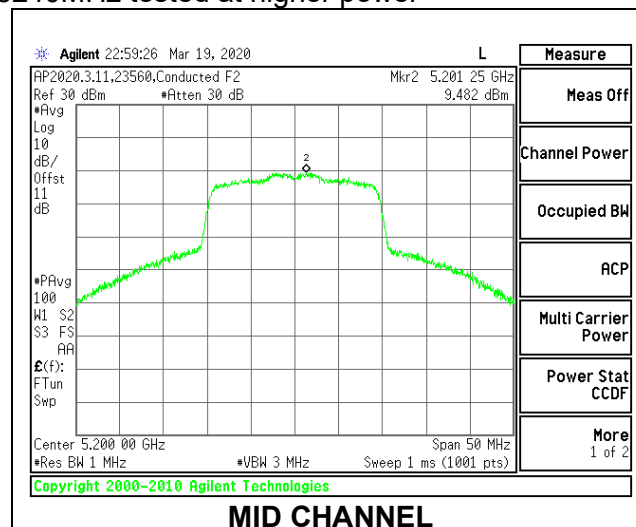
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 17.52                               | 17.52                             | 24.00                   | -6.48                   |
| Mid     | 5200               | 18.17                               | 18.17                             | 24.00                   | -5.83                   |
| High    | 5240               | 18.19                               | 18.19                             | 24.00                   | -5.81                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5180               | 6.626                                  | 6.626                                | 11.00                       | -4.374                |
| Mid     | 5200               | 9.482                                  | 9.482                                | 11.00                       | -1.518                |
| High    | 5240               | 9.488                                  | 9.488                                | 11.00                       | -1.512                |

NOTE: 5200MHz and 5240MHz tested at higher power



**1TX ANT 5 MODE (FCC) MOBILE: 26 Tones, RU Index 0**

|                       |            |
|-----------------------|------------|
| <b>Test Engineer:</b> | 12485 GA   |
| <b>Test Date:</b>     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5180               | -2.60                        | 24.00                   | 11.00                      |
| Mid     | 5200               | -2.60                        | 24.00                   | 11.00                      |
| High    | 5240               | -2.60                        | 24.00                   | 11.00                      |

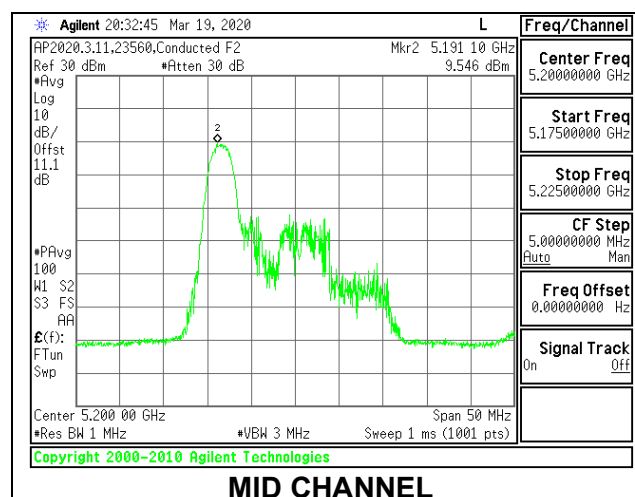
|                           |      |                                               |
|---------------------------|------|-----------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|-----------------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 11.72                               | 11.72                             | 24.00                   | -12.28                  |
| Mid     | 5200               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| High    | 5240               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5180               | 9.199                                  | 9.199                                | 11.00                      | -1.801                |
| Mid     | 5200               | 9.546                                  | 9.546                                | 11.00                      | -1.454                |
| High    | 5240               | 9.187                                  | 9.187                                | 11.00                      | -1.813                |



**1TX ANT 5 MODE (FCC) MOBILE: 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5180               | -2.60                        | 24.00                   | 11.00                      |
| Mid     | 5200               | -2.60                        | 24.00                   | 11.00                      |
| High    | 5240               | -2.60                        | 24.00                   | 11.00                      |

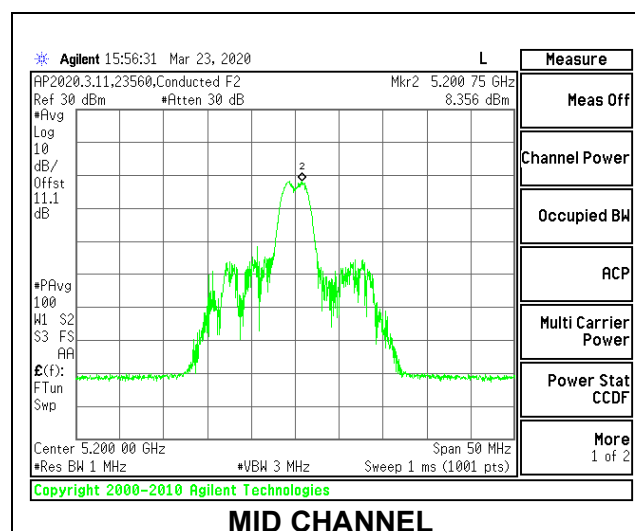
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 11.69                               | 11.69                             | 24.00                   | -12.31                  |
| Mid     | 5200               | 11.75                               | 11.75                             | 24.00                   | -12.25                  |
| High    | 5240               | 11.73                               | 11.73                             | 24.00                   | -12.27                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5180               | 8.407                                  | 8.407                                | 11.00                      | -2.593                |
| Mid     | 5200               | 8.356                                  | 8.356                                | 11.00                      | -2.644                |
| High    | 5240               | 8.307                                  | 8.307                                | 11.00                      | -2.693                |



**1TX ANT 5 MODE (FCC) MOBILE: 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/ 1MHz) |
|---------|--------------------|------------------------------|-------------------------|-----------------------------|
| Low     | 5180               | -2.60                        | 24.00                   | 11.00                       |
| Mid     | 5200               | -2.60                        | 24.00                   | 11.00                       |
| High    | 5240               | -2.60                        | 24.00                   | 11.00                       |

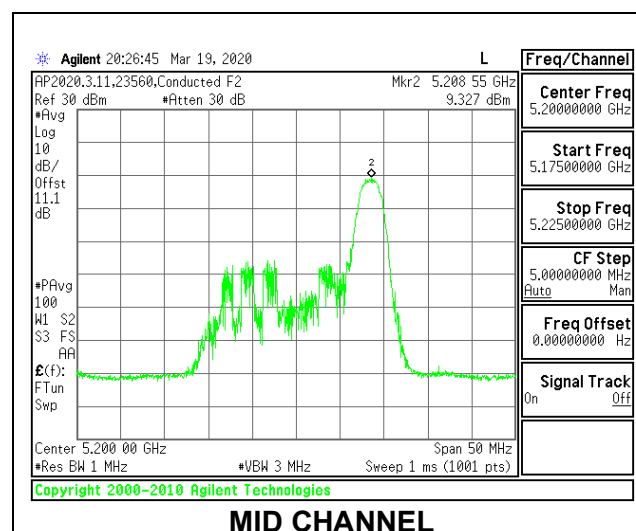
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |
| Mid     | 5200               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| High    | 5240               | 11.73                               | 11.73                             | 24.00                   | -12.27                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5180               | 9.571                                  | 9.571                                | 11.00                       | -1.429                |
| Mid     | 5200               | 9.327                                  | 9.327                                | 11.00                       | -1.673                |
| High    | 5240               | 9.259                                  | 9.259                                | 11.00                       | -1.741                |



**1TX ANT 5 MODE (FCC) MOBILE: 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5180               | -2.60                        | 24.00                   | 11.00                      |
| Mid     | 5200               | -2.60                        | 24.00                   | 11.00                      |
| High    | 5240               | -2.60                        | 24.00                   | 11.00                      |

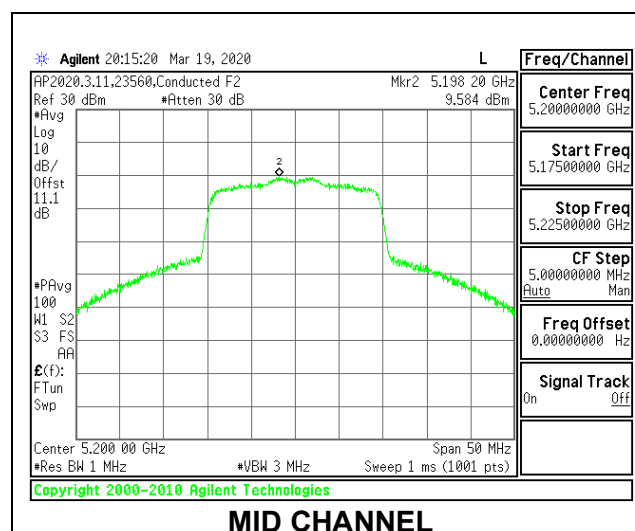
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 17.63                               | 17.63                             | 24.00                   | -6.37                   |
| Mid     | 5200               | 19.66                               | 19.66                             | 24.00                   | -4.34                   |
| High    | 5240               | 19.73                               | 19.73                             | 24.00                   | -4.27                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5180               | 6.527                                  | 6.527                                | 11.00                      | -4.473                |
| Mid     | 5200               | 9.584                                  | 9.584                                | 11.00                      | -1.416                |
| High    | 5240               | 9.695                                  | 9.695                                | 11.00                      | -1.305                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5180               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| Mid     | 5200               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| High    | 5240               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

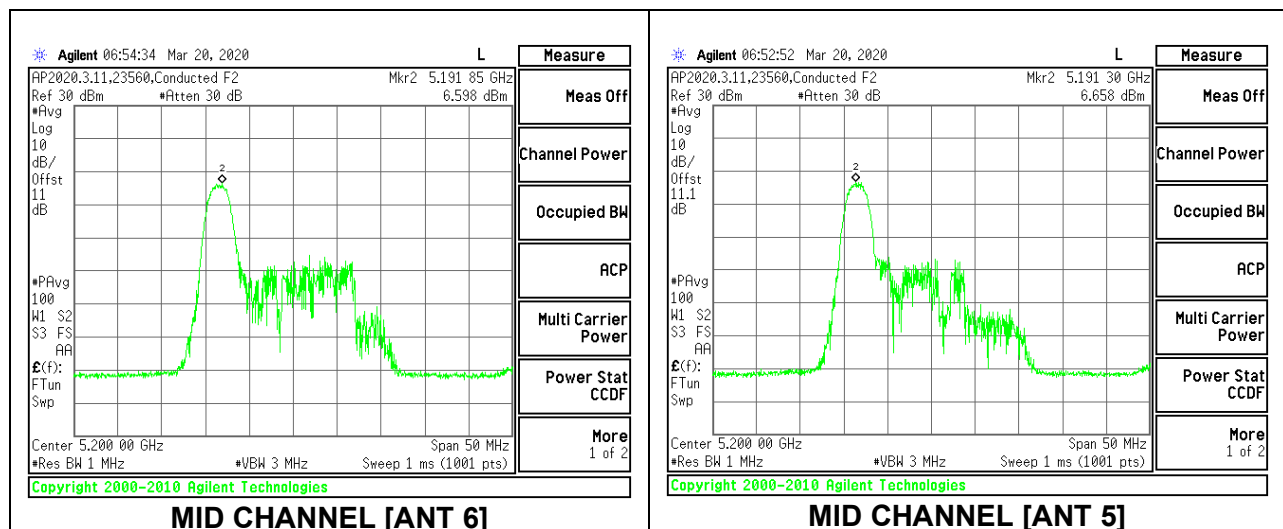
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 8.61                                | 8.70                                | 11.67                             | 24.00                   | -12.33                  |
| Mid     | 5200               | 8.65                                | 8.67                                | 11.67                             | 24.00                   | -12.33                  |
| High    | 5240               | 8.60                                | 8.58                                | 11.60                             | 24.00                   | -12.40                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5180               | 6.380                                  | 6.779                                  | 9.594                                | 11.00                      | -1.406                |
| Mid     | 5200               | 6.598                                  | 6.658                                  | 9.638                                | 11.00                      | -1.362                |
| High    | 5240               | 6.275                                  | 6.261                                  | 9.278                                | 11.00                      | -1.722                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5180               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| Mid     | 5200               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| High    | 5240               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

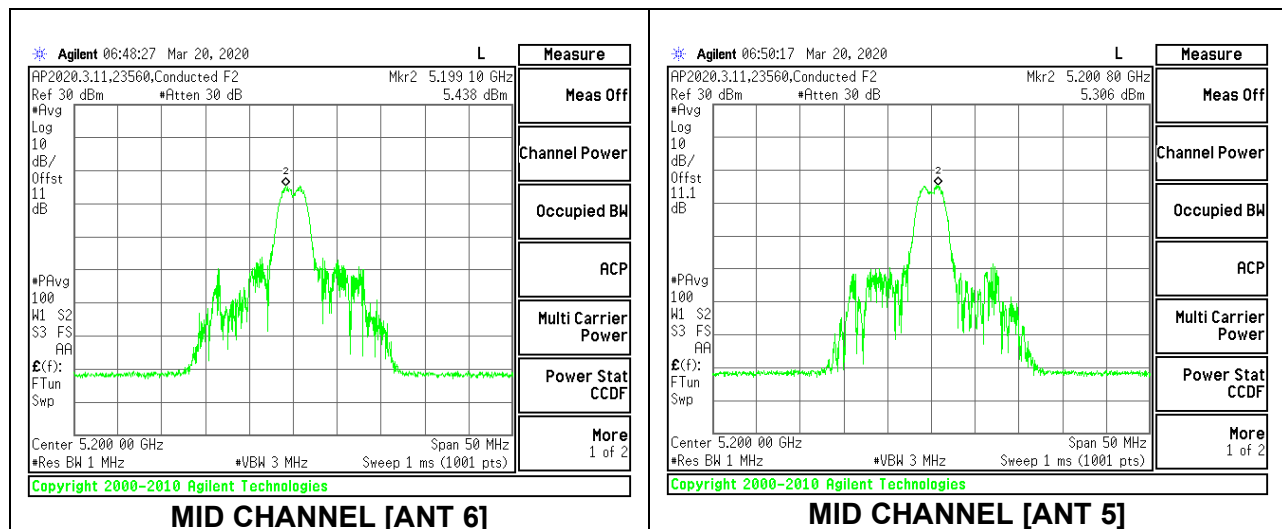
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 8.68                                | 8.72                                | 11.71                             | 24.00                   | -12.29                  |
| Mid     | 5200               | 8.66                                | 8.56                                | 11.62                             | 24.00                   | -12.38                  |
| High    | 5240               | 8.60                                | 8.61                                | 11.62                             | 24.00                   | -12.38                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5180               | 5.487                                  | 5.587                                  | 8.548                                | 11.00                      | -2.452                |
| Mid     | 5200               | 5.438                                  | 5.306                                  | 8.383                                | 11.00                      | -2.617                |
| High    | 5240               | 5.357                                  | 5.379                                  | 8.378                                | 11.00                      | -2.622                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5180               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| Mid     | 5200               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| High    | 5240               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

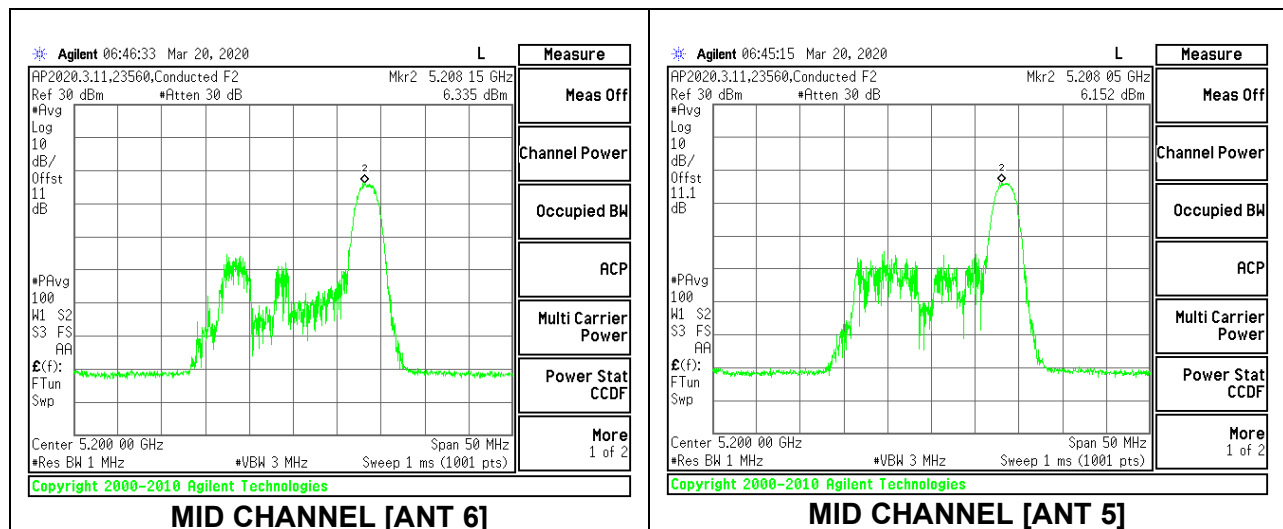
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 8.73                                | 8.70                                | 11.73                             | 24.00                   | -12.27                  |
| Mid     | 5200               | 8.64                                | 8.60                                | 11.63                             | 24.00                   | -12.37                  |
| High    | 5240               | 8.71                                | 8.65                                | 11.69                             | 24.00                   | -12.31                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5180               | 6.656                                  | 6.588                                  | 9.632                                | 11.00                      | -1.368                |
| Mid     | 5200               | 6.335                                  | 6.152                                  | 9.255                                | 11.00                      | -1.745                |
| High    | 5240               | 6.602                                  | 6.367                                  | 9.496                                | 11.00                      | -1.504                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5180               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| Mid     | 5200               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| High    | 5240               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

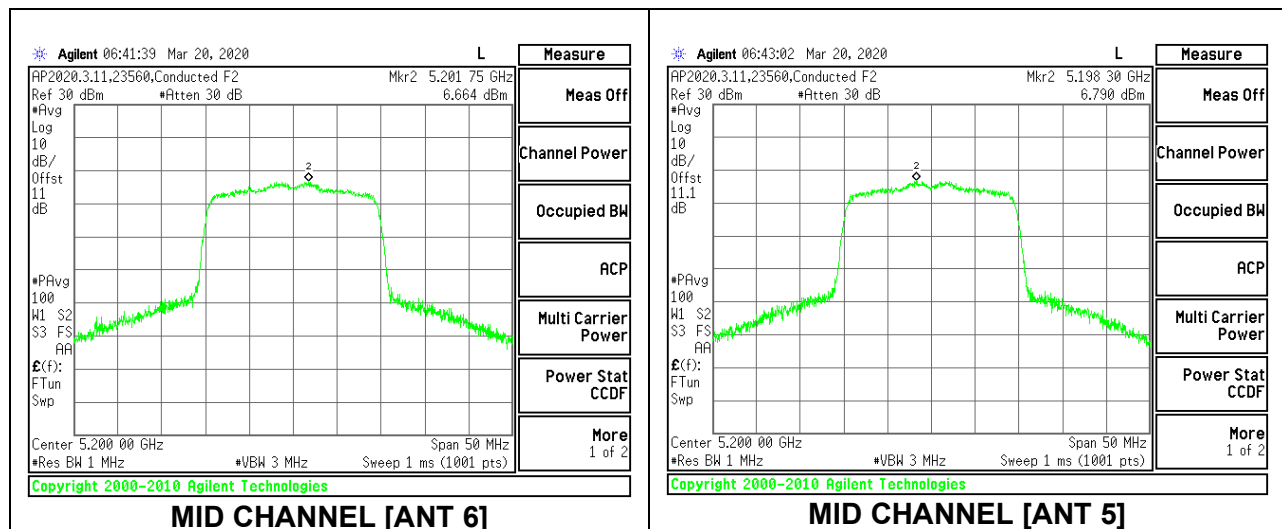
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5180               | 16.73                               | 16.69                               | 19.72                             | 24.00                   | -4.28                   |
| Mid     | 5200               | 16.67                               | 16.64                               | 19.67                             | 24.00                   | -4.33                   |
| High    | 5240               | 16.72                               | 16.71                               | 19.73                             | 24.00                   | -4.27                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5180               | 6.484                                  | 6.698                                  | 9.603                                | 11.00                      | -1.397                |
| Mid     | 5200               | 6.664                                  | 6.790                                  | 9.738                                | 11.00                      | -1.262                |
| High    | 5240               | 6.987                                  | 6.736                                  | 9.874                                | 11.00                      | -1.126                |



## 9.4.5. 802.11ax HE40 MODE IN THE 5.2 GHz BAND

### 1TX ANT 6 MODE (FCC) MOBILE: 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

#### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | 0.30                                      | 24.00                   | 11.00                      |
| High    | 5230               | 0.30                                      | 24.00                   | 11.00                      |

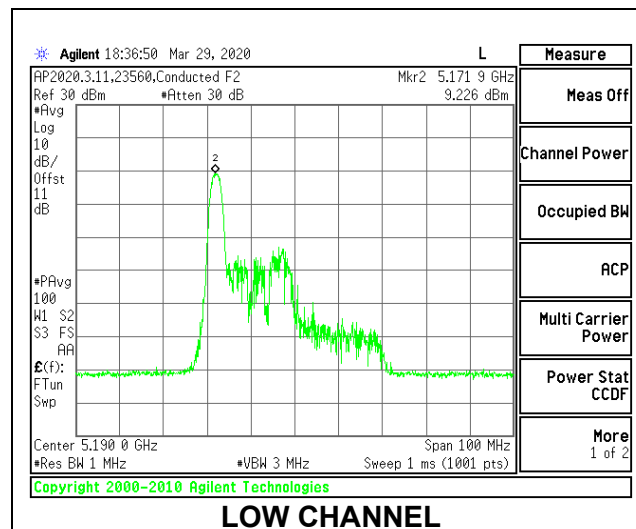
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |
| High    | 5230               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 9.226                                  | 9.226                                | 11.00                      | -1.774                |
| High    | 5230               | 9.172                                  | 9.172                                | 11.00                      | -1.828                |



**1TX ANT 6 MODE (FCC) MOBILE: 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | 0.30                                      | 24.00                   | 11.00                      |
| High    | 5230               | 0.30                                      | 24.00                   | 11.00                      |

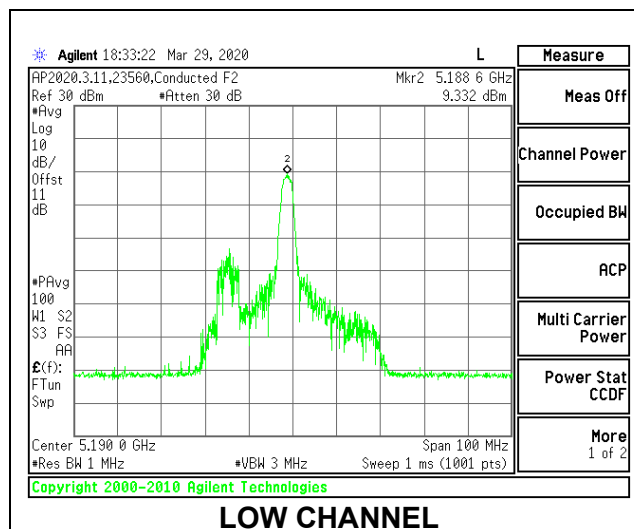
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| High    | 5230               | 11.65                               | 11.65                             | 24.00                   | -12.35                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 9.332                                  | 9.332                                | 11.00                      | -1.668                |
| High    | 5230               | 9.228                                  | 9.228                                | 11.00                      | -1.772                |



**1TX ANT 6 MODE (FCC) MOBILE: 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | 0.30                                      | 24.00                   | 11.00                      |
| High    | 5230               | 0.30                                      | 24.00                   | 11.00                      |

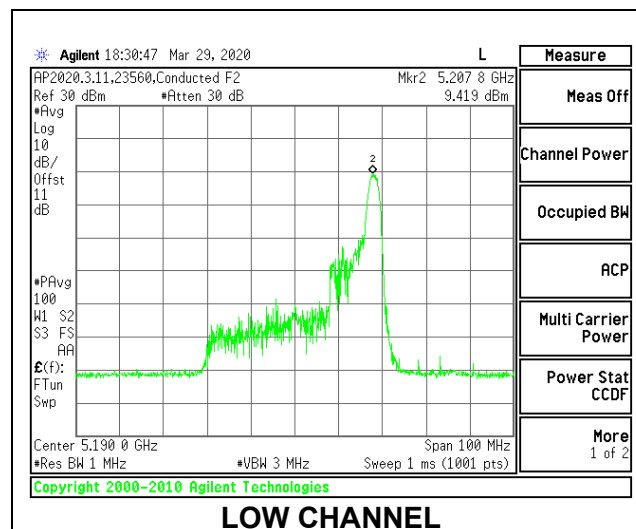
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 11.69                               | 11.69                             | 24.00                   | -12.31                  |
| High    | 5230               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 9.419                                  | 9.419                                | 11.00                      | -1.581                |
| High    | 5230               | 9.050                                  | 9.050                                | 11.00                      | -1.950                |



**1TX ANT 6 MODE (FCC) MOBILE: 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | 0.30                                      | 24.00                   | 11.00                      |
| High    | 5230               | 0.30                                      | 24.00                   | 11.00                      |

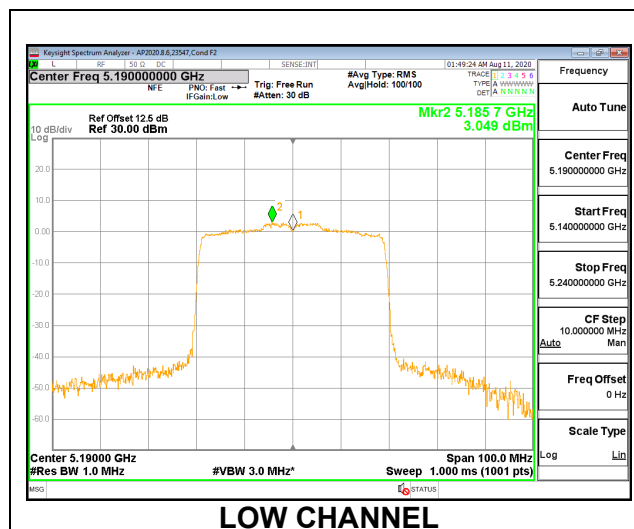
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 15.63                               | 15.63                             | 24.00                   | -8.37                   |
| High    | 5230               | 18.24                               | 18.24                             | 24.00                   | -5.76                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 3.049                                  | 3.049                                | 11.00                      | -7.951                |
| High    | 5230               | 8.178                                  | 8.178                                | 11.00                      | -2.822                |



NOTE: 5230MHz tested at higher power

**1TX ANT 5 MODE (FCC) MOBILE: 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | -2.60                                     | 24.00                   | 11.00                      |
| High    | 5230               | -2.60                                     | 24.00                   | 11.00                      |

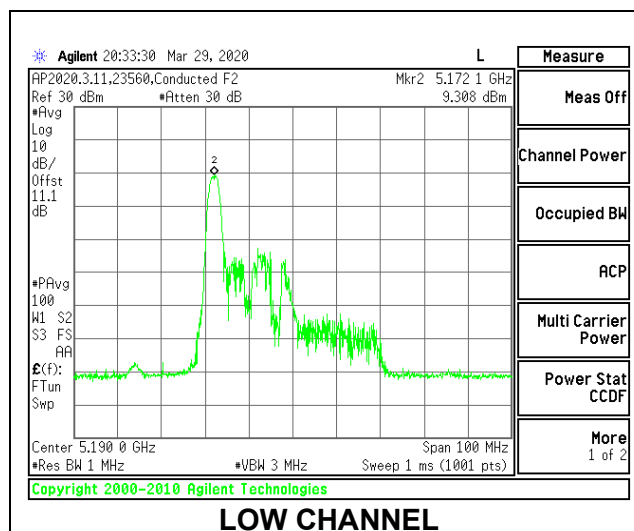
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 11.69                               | 11.69                             | 24.00                   | -12.31                  |
| High    | 5230               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 9.308                                  | 9.308                                | 11.00                      | -1.692                |
| High    | 5230               | 9.336                                  | 9.336                                | 11.00                      | -1.664                |



**1TX ANT 5 MODE (FCC) MOBILE: 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | -2.60                                     | 24.00                   | 11.00                      |
| High    | 5230               | -2.60                                     | 24.00                   | 11.00                      |

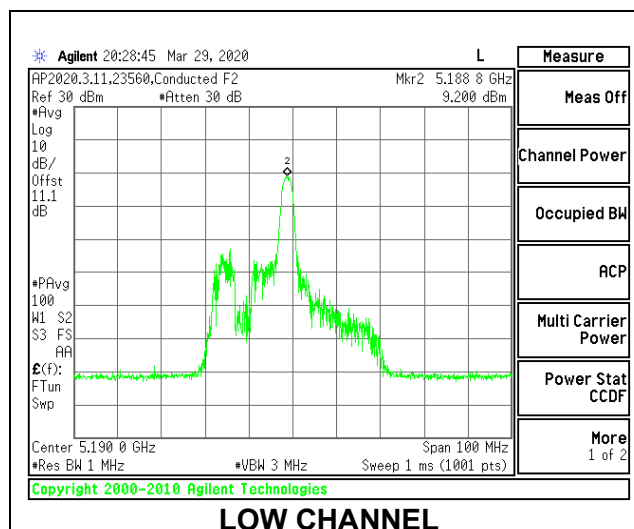
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| High    | 5230               | 11.72                               | 11.72                             | 24.00                   | -12.28                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 9.200                                  | 9.200                                | 11.00                      | -1.800                |
| High    | 5230               | 9.326                                  | 9.326                                | 11.00                      | -1.674                |



**1TX ANT 5 MODE (FCC) MOBILE: 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | -2.60                                     | 24.00                   | 11.00                      |
| High    | 5230               | -2.60                                     | 24.00                   | 11.00                      |

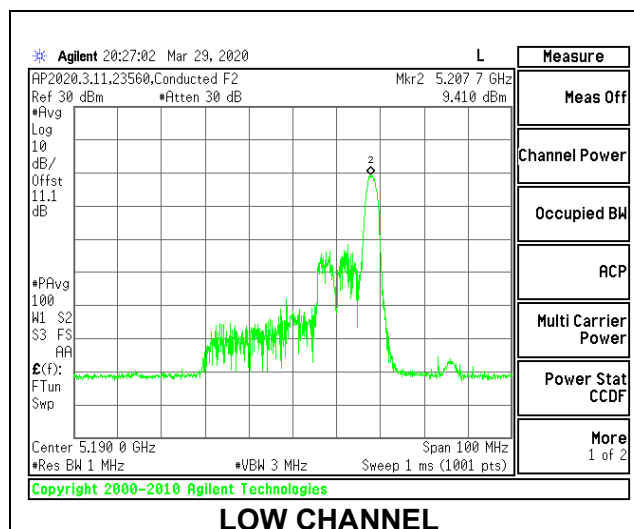
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 11.73                               | 11.73                             | 24.00                   | -12.27                  |
| High    | 5230               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 9.410                                  | 9.410                                | 11.00                      | -1.590                |
| High    | 5230               | 9.375                                  | 9.375                                | 11.00                      | -1.625                |



**1TX ANT 5 MODE (FCC) MOBILE: 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | -2.60                                     | 24.00                   | 11.00                      |
| High    | 5230               | -2.60                                     | 24.00                   | 11.00                      |

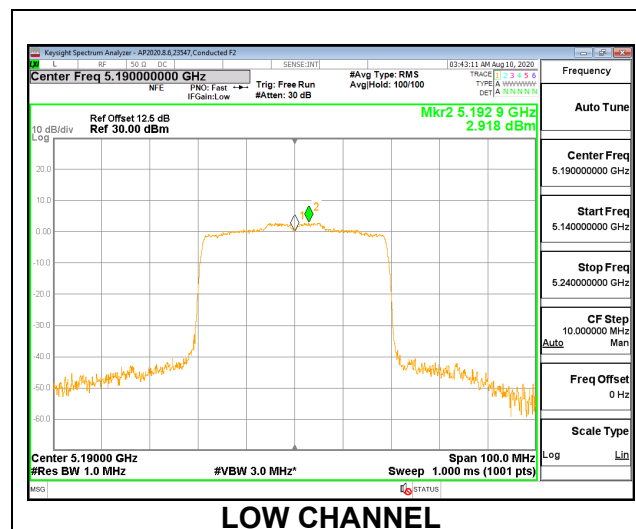
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 15.65                               | 15.65                             | 24.00                   | -8.35                   |
| High    | 5230               | 20.77                               | 20.77                             | 24.00                   | -3.23                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 2.918                                  | 2.918                                | 11.00                      | -8.082                |
| High    | 5230               | 8.302                                  | 8.302                                | 11.00                      | -2.698                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| High    | 5230               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

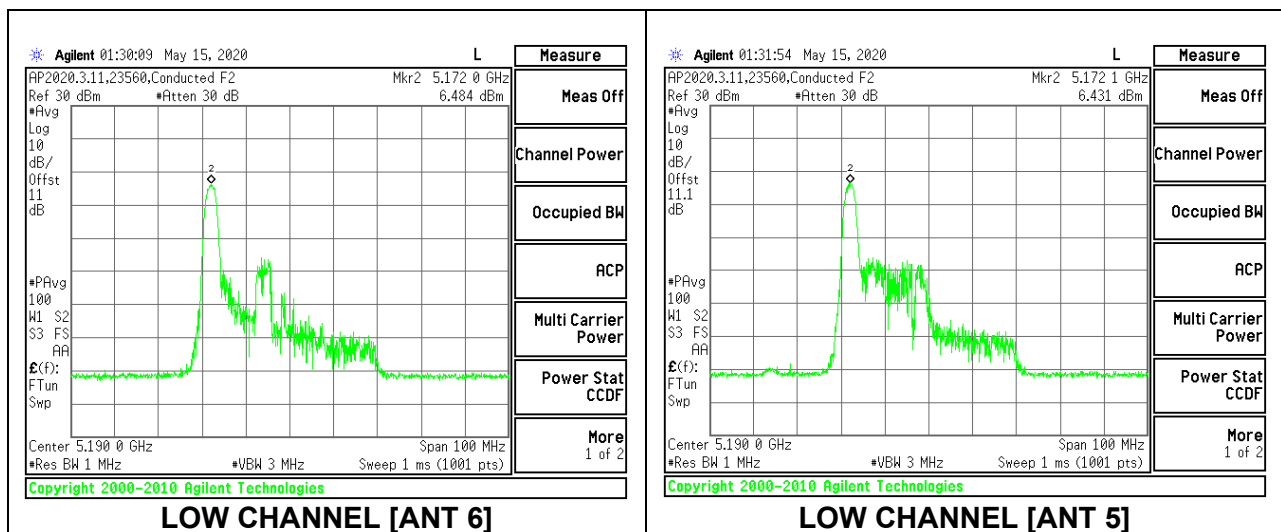
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 8.71                                | 8.69                                | 11.71                             | 24.00                   | -12.29                  |
| High    | 5230               | 8.75                                | 8.66                                | 11.72                             | 24.00                   | -12.28                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 6.484                                  | 6.431                                  | 9.468                                | 11.00                      | -1.532                |
| High    | 5230               | 6.593                                  | 6.613                                  | 9.613                                | 11.00                      | -1.387                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| High    | 5230               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

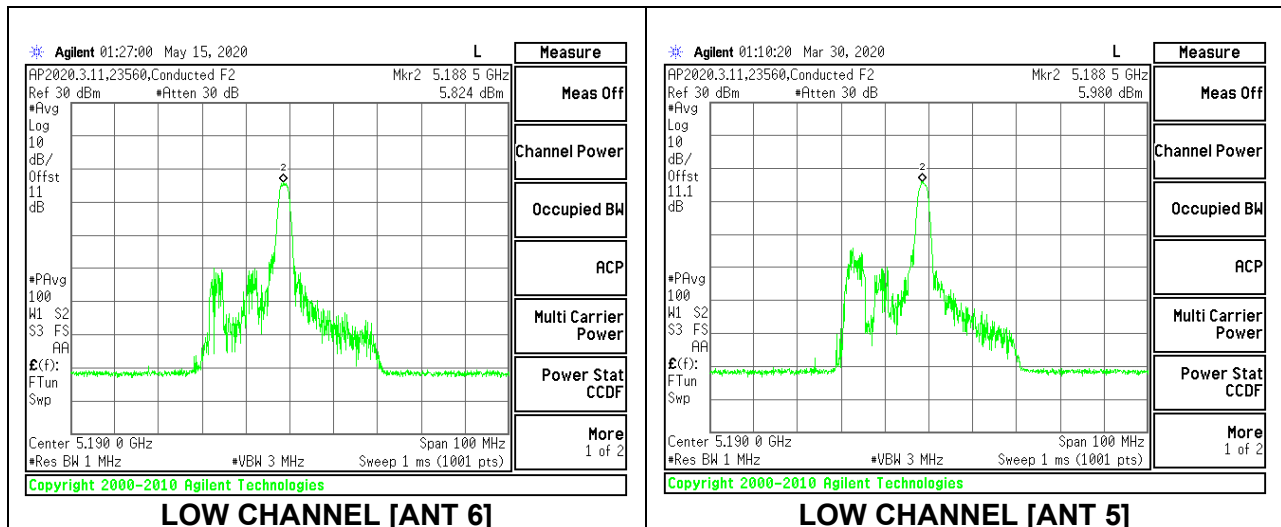
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 8.67                                | 8.71                                | 11.70                             | 24.00                   | -12.30                  |
| High    | 5230               | 8.68                                | 8.70                                | 11.70                             | 24.00                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 5.824                                  | 5.980                                  | 8.913                                | 11.00                      | -2.087                |
| High    | 5230               | 5.840                                  | 5.902                                  | 8.881                                | 11.00                      | -2.119                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| High    | 5230               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

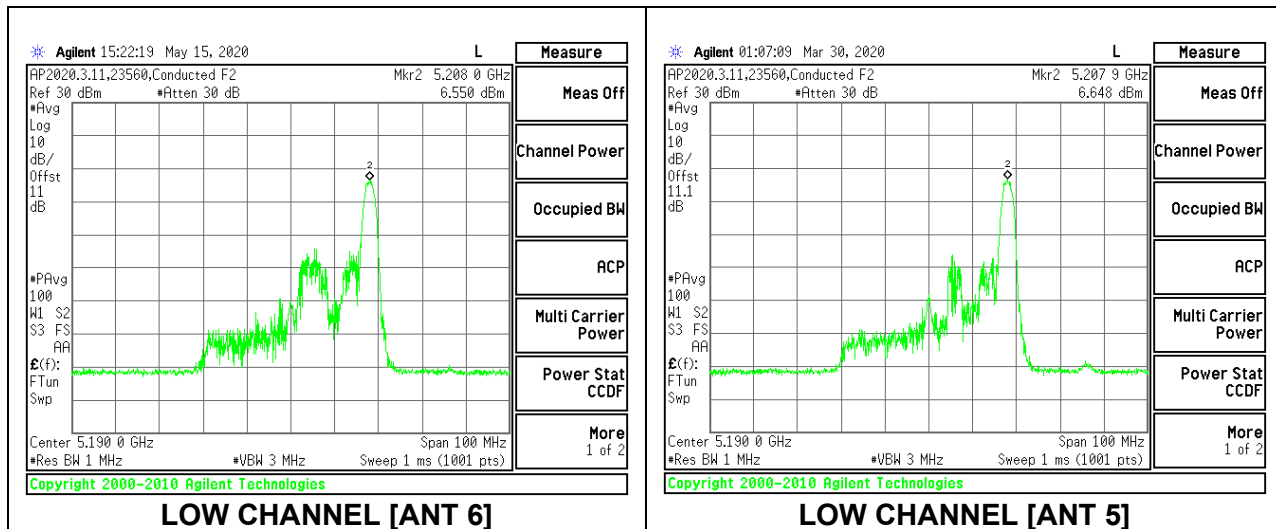
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 8.70                                | 8.67                                | 11.70                             | 24.00                   | -12.30                  |
| High    | 5230               | 8.62                                | 8.65                                | 11.65                             | 24.00                   | -12.35                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 6.550                                  | 6.648                                  | 9.610                                | 11.00                      | -1.390                |
| High    | 5230               | 6.305                                  | 6.375                                  | 9.350                                | 11.00                      | -1.650                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5190               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |
| High    | 5230               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

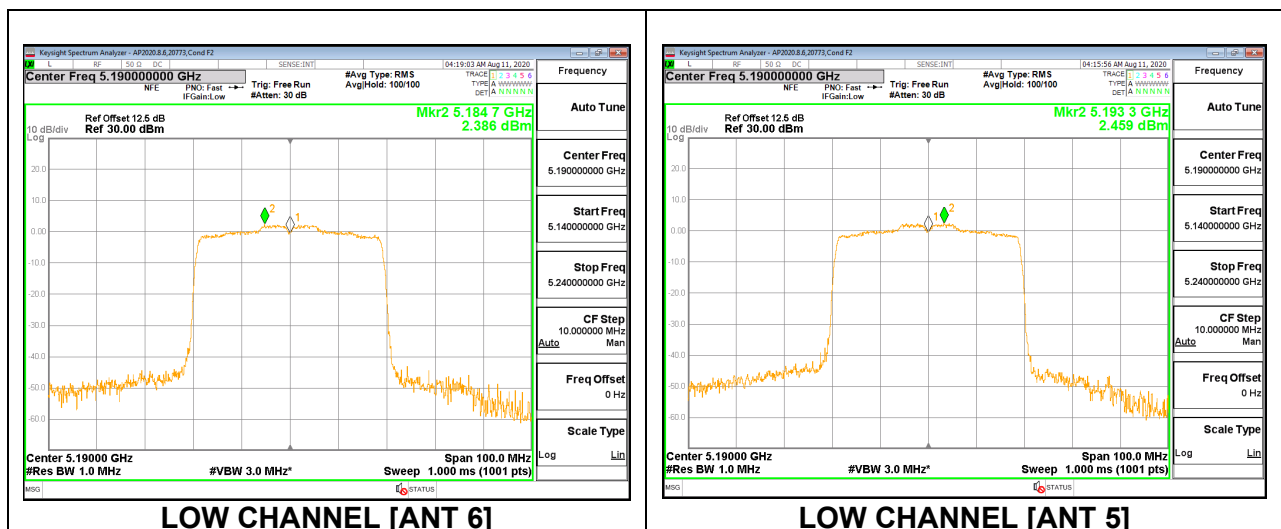
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 15.21                               | 15.17                               | 18.20                             | 24.00                   | -5.80                   |
| High    | 5230               | 18.20                               | 19.68                               | 22.01                             | 24.00                   | -1.99                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5190               | 2.386                                  | 2.459                                  | 5.433                                | 11.00                      | -5.567                |
| High    | 5230               | 6.993                                  | 6.768                                  | 9.892                                | 11.00                      | -1.108                |



## 9.4.6. 802.11ax HE80 MODE IN THE 5.2 GHz BAND

### 1TX ANT 6 MODE (FCC) MOBILE: 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

#### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Mid     | 5210               | 0.30                                      | 24.00                   | 11.00                      |

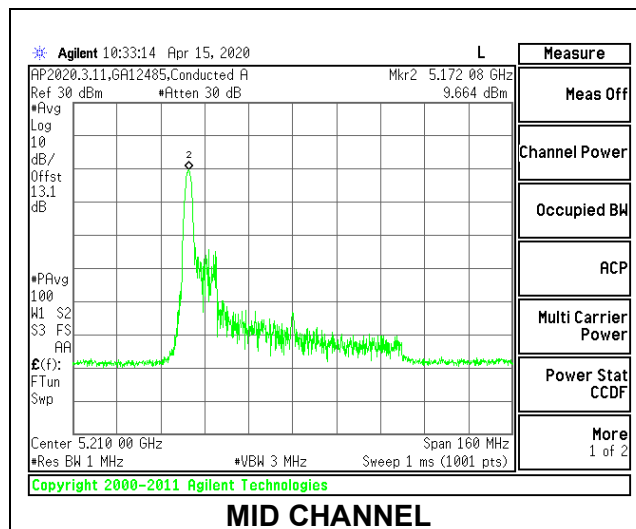
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5210               | 9.664                                  | 9.664                                | 11.00                      | -1.336                |



**1TX ANT 6 MODE (FCC) MOBILE: 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Mid     | 5210               | 0.30                                      | 24.00                   | 11.00                      |

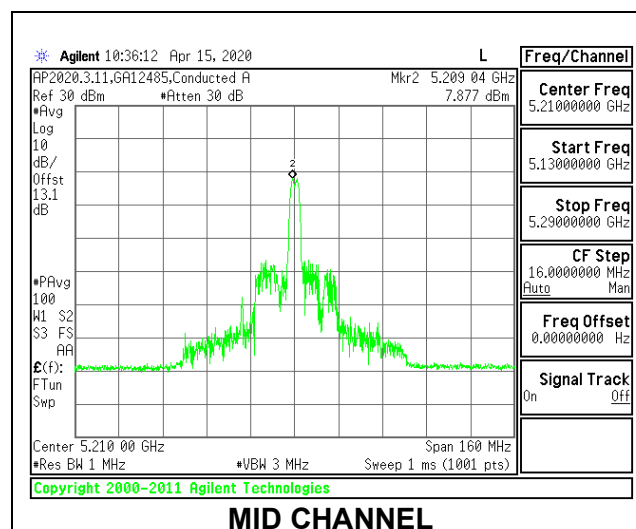
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 11.73                               | 11.73                             | 24.00                   | -12.27                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5210               | 7.877                                  | 7.877                                | 11.00                      | -3.123                |



**1TX ANT 6 MODE (FCC) MOBILE: 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Mid     | 5210               | 1.00                                      | 24.00                   | 11.00                      |

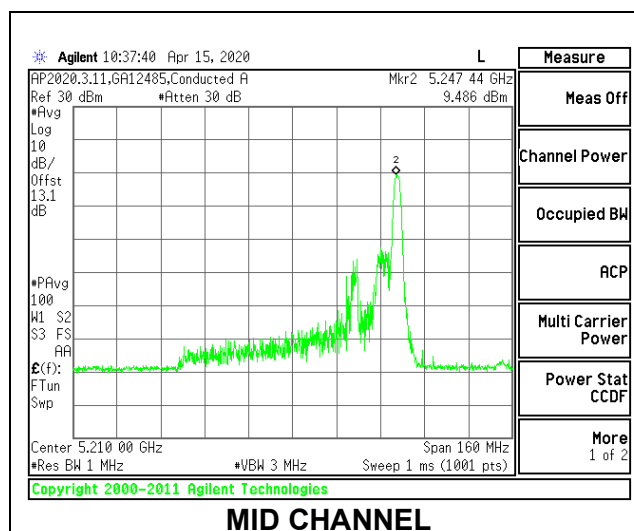
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5210               | 9.486                                  | 9.486                                | 11.00                      | -1.514                |



**1TX ANT 6 MODE (FCC) MOBILE: 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Mid     | 5210               | 1.00                                      | 24.00                   | 11.00                      |

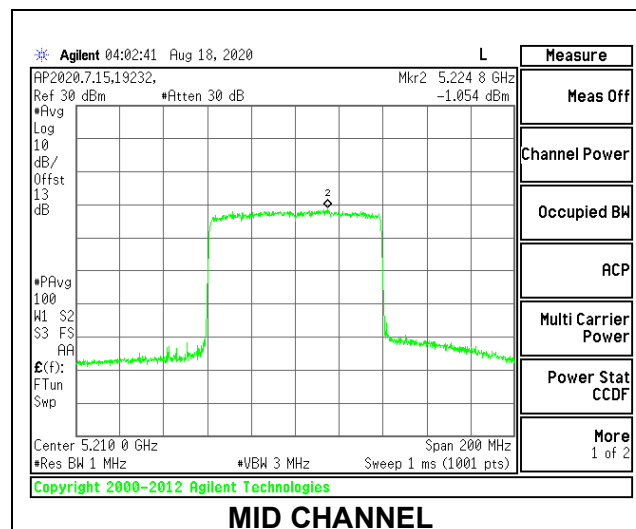
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 15.74                               | 15.74                             | 24.00                   | -8.26                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5210               | -1.054                                 | -1.054                               | 11.00                      | -12.054               |



**1TX ANT 5 MODE (FCC) MOBILE: 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Mid     | 5210               | -2.60                                     | 24.00                   | 11.00                      |

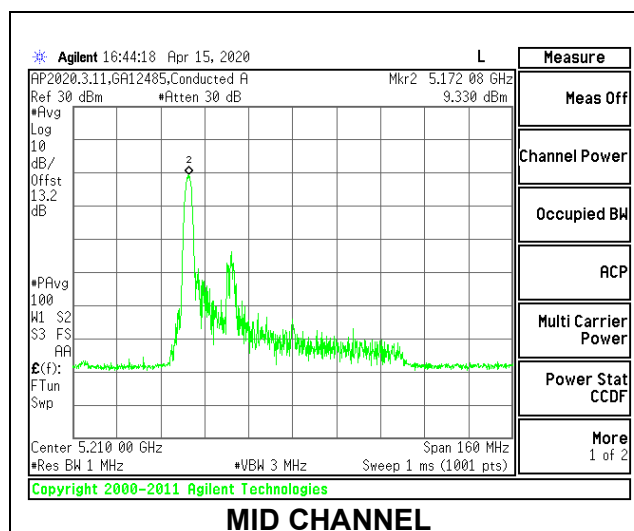
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5210               | 9.330                                  | 9.330                                | 11.00                      | -1.670                |



**1TX ANT 5 MODE (FCC) MOBILE: 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Mid     | 5210               | -2.60                                     | 24.00                   | 11.00                      |

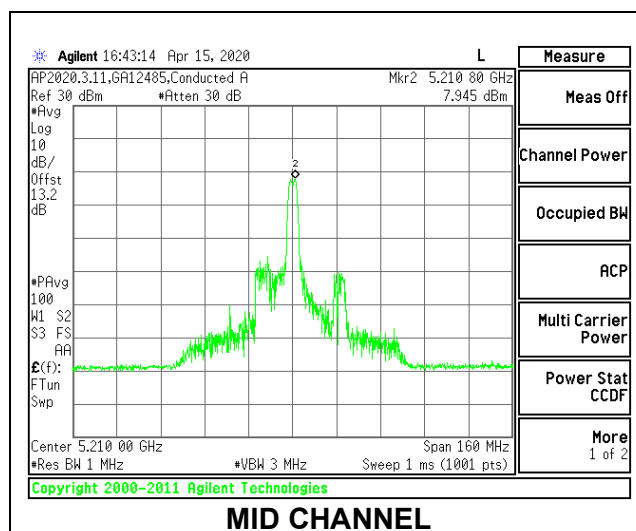
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 11.74                               | 11.74                             | 24.00                   | -12.26                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5210               | 7.945                                  | 7.945                                | 11.00                      | -3.055                |



**1TX ANT 5 MODE (FCC) MOBILE: 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Mid     | 5210               | -2.60                                     | 24.00                   | 11.00                      |

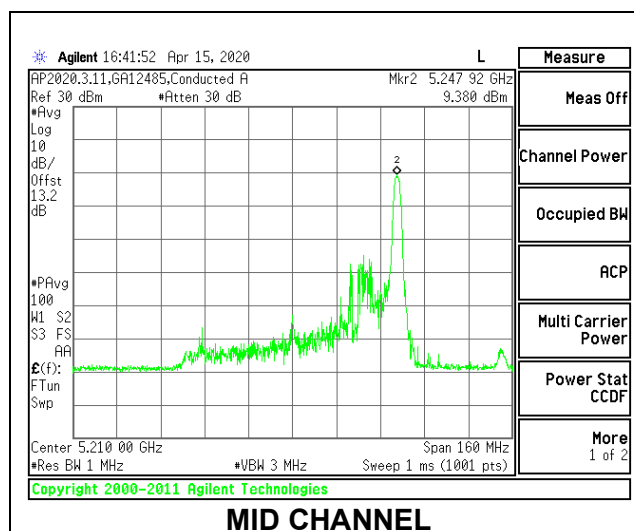
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5210               | 9.380                                  | 9.380                                | 11.00                      | -1.620                |



**1TX ANT 5 MODE (FCC) MOBILE: 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-------------------------|----------------------------|
| Mid     | 5210               | -2.60                                     | 24.00                   | 11.00                      |

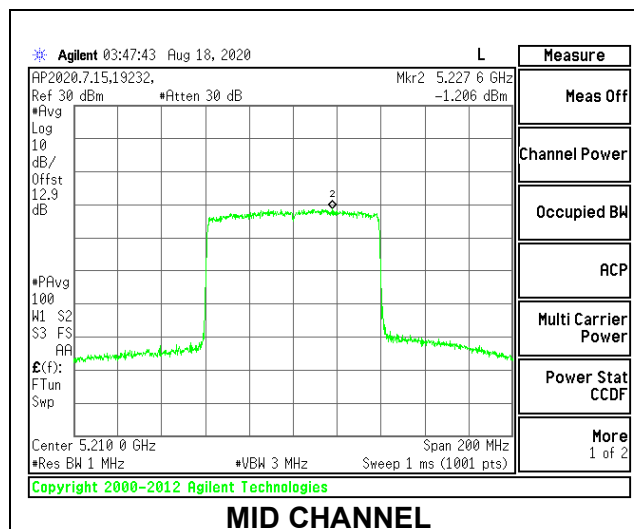
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 15.69                               | 15.69                             | 24.00                   | -8.31                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5210               | -1.206                                 | -1.206                               | 11.00                      | -12.206               |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5210               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

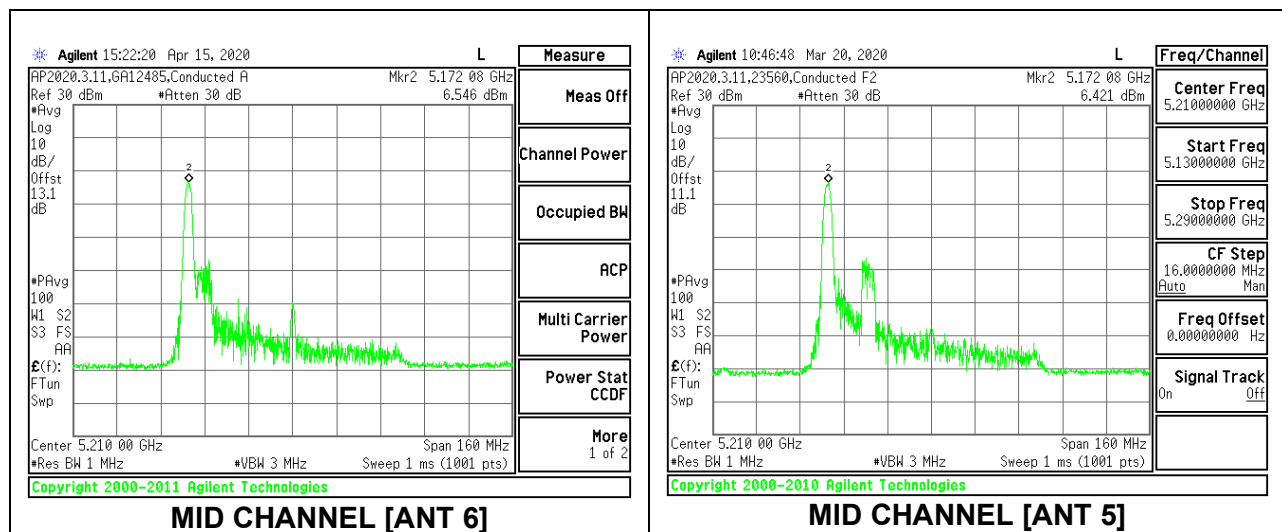
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5210               | 8.65                                | 8.61                                | 11.64                             | 24.00                   | -12.36                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5210               | 6.546                                  | 6.421                                  | 9.494                                | 11.00                      | -1.506                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5210               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

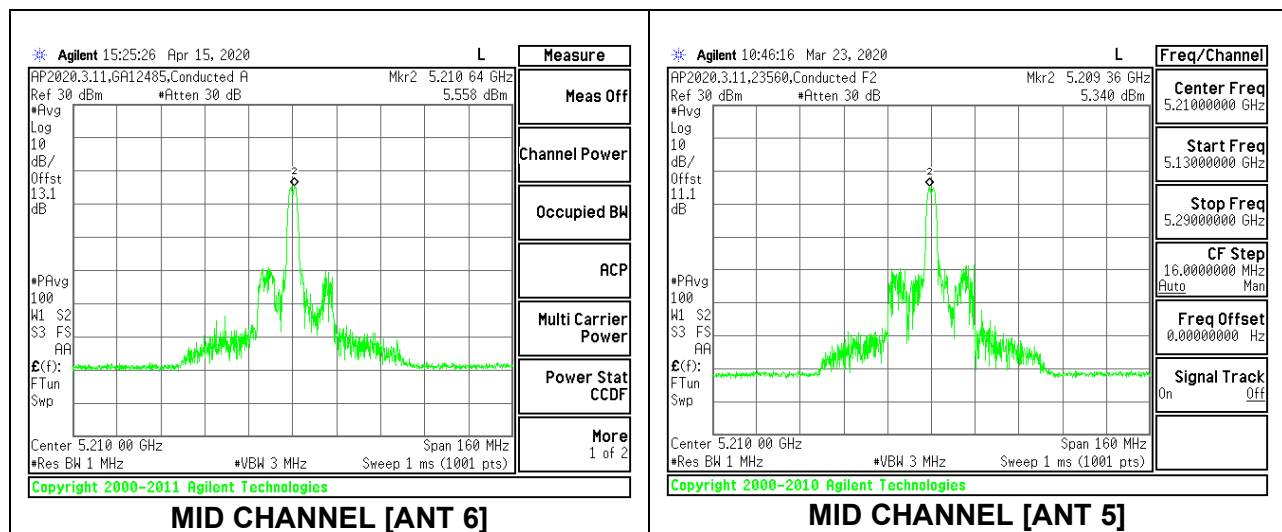
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5210               | 8.66                                | 8.62                                | 11.65                             | 24.00                   | -12.35                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5210               | 5.558                                  | 5.340                                  | 8.461                                | 11.00                      | -2.539                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5210               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

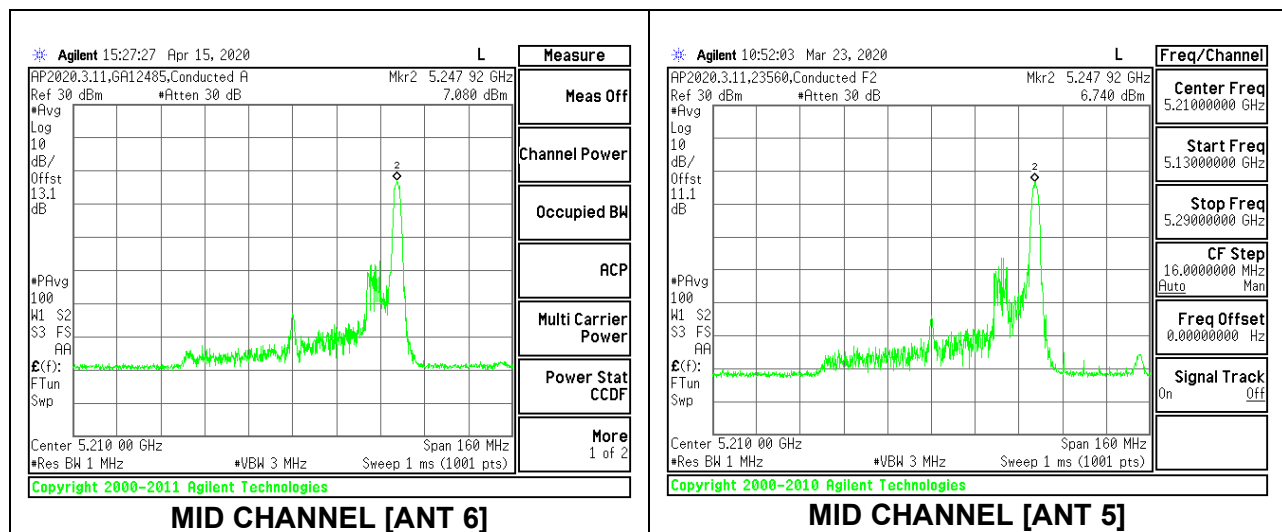
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5210               | 8.68                                | 8.62                                | 11.66                             | 24.00                   | -12.34                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5210               | 7.080                                  | 6.740                                  | 9.924                                | 11.00                      | -1.076                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC) MOBILE: 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5210               | -0.91                                     | 1.98                                    | 24.00                   | 11.00                      |

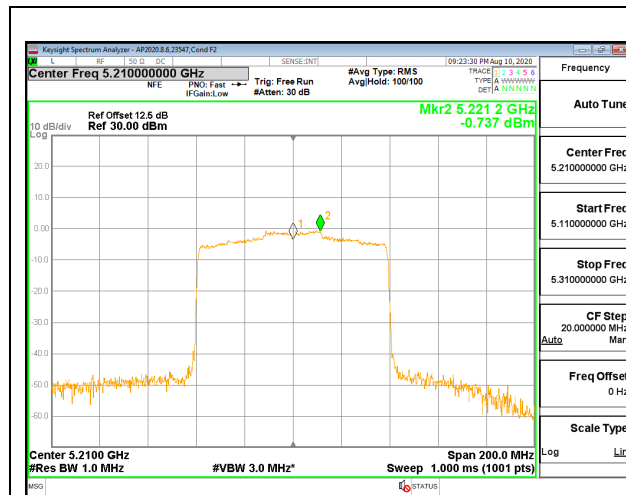
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

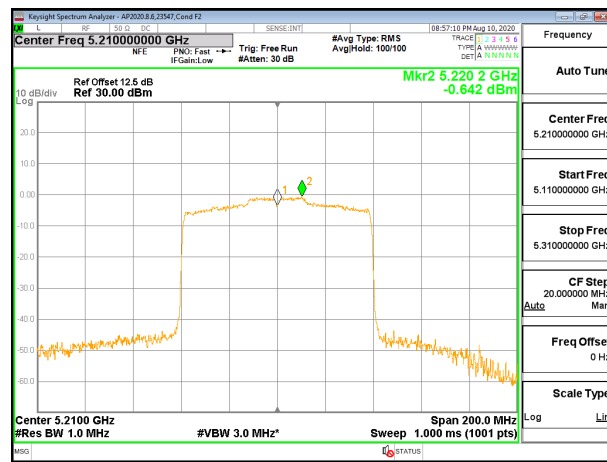
| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5210               | 14.69                               | 14.65                               | 17.68                             | 24.00                   | -6.32                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5210               | -0.737                                 | -0.642                                 | 2.321                                | 11.00                      | -8.679                |



**MID CHANNEL [ANT 6]**



**MID CHANNEL [ANT 5]**

### 9.4.7. 802.11n HT20 MODE IN THE 5.3 GHz BAND

#### 1TX ANT 6 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 21.10                       | 1.40                         | 24.00                   | 11.00                      |
| Mid     | 5300               | 21.07                       | 1.40                         | 24.00                   | 11.00                      |
| High    | 5320               | 21.05                       | 1.40                         | 24.00                   | 11.00                      |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

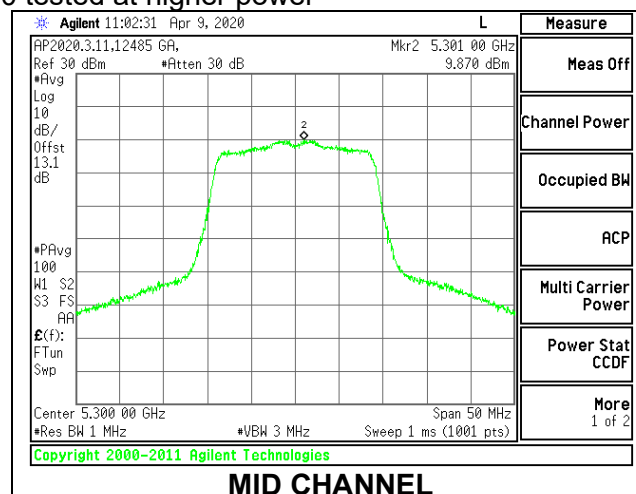
#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 17.49                               | 17.49                             | 24.00                   | -6.51                   |
| Mid     | 5300               | 17.43                               | 17.43                             | 24.00                   | -6.57                   |
| High    | 5320               | 17.44                               | 17.44                             | 24.00                   | -6.56                   |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 9.884                                  | 9.884                                | 11.00                      | -1.116                |
| Mid     | 5300               | 9.870                                  | 9.870                                | 11.00                      | -1.130                |
| High    | 5320               | 8.197                                  | 8.197                                | 11.00                      | -2.803                |

NOTE: 5260/5300/5320 tested at higher power



# **1TX ANT 5 MODE (FCC)**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

## **Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 21.20                       | -1.20                        | 24.00                   | 11.00                      |
| Mid     | 5300               | 21.28                       | -1.20                        | 24.00                   | 11.00                      |
| High    | 5320               | 21.20                       | -1.20                        | 24.00                   | 11.00                      |

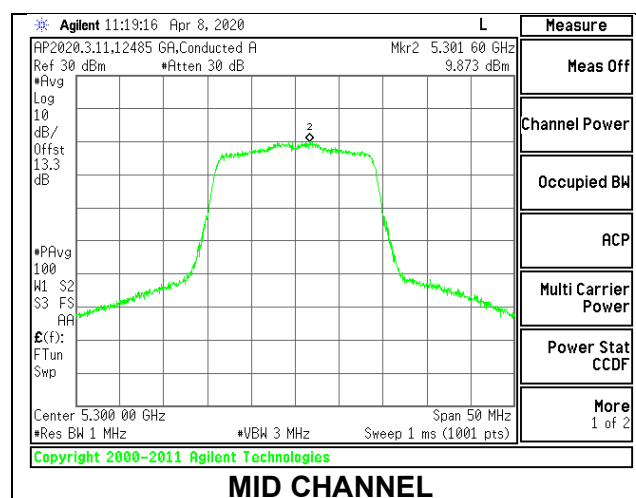
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

## **Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 19.73                               | 19.73                             | 24.00                   | -4.27                   |
| Mid     | 5300               | 19.70                               | 19.70                             | 24.00                   | -4.30                   |
| High    | 5320               | 18.20                               | 18.20                             | 24.00                   | -5.80                   |

## **PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 9.936                                  | 9.936                                | 11.00                      | -1.064                |
| Mid     | 5300               | 9.873                                  | 9.873                                | 11.00                      | -1.127                |
| High    | 5320               | 8.194                                  | 8.194                                | 11.00                      | -2.806                |



## 2TX ANT 6 + ANT 5 CDD MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 21.06                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |
| Mid     | 5300               | 21.05                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |
| High    | 5320               | 21.06                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |

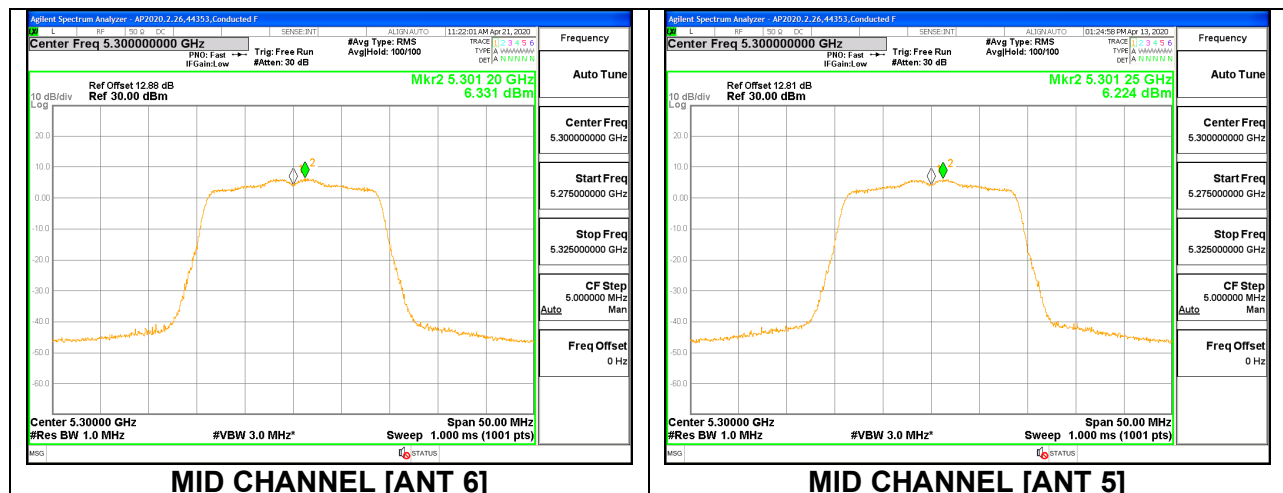
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 16.71                               | 16.71                               | 19.72                             | 24.00                   | -4.28                   |
| Mid     | 5300               | 16.69                               | 16.67                               | 19.69                             | 24.00                   | -4.31                   |
| High    | 5320               | 16.62                               | 16.63                               | 19.64                             | 24.00                   | -4.36                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 6.373                                  | 6.346                                  | 9.370                                | 11.00                      | -1.630                |
| Mid     | 5300               | 6.331                                  | 6.224                                  | 9.288                                | 11.00                      | -1.712                |
| High    | 5320               | 6.206                                  | 6.287                                  | 9.257                                | 11.00                      | -1.743                |



## 9.4.8. 802.11n HT40 MODE IN THE 5.3 GHz BAND

### 1TX ANT 6 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 39.61                       | 1.40                         | 24.00                   | 11.00                      |
| High    | 5310               | 39.93                       | 1.40                         | 24.00                   | 11.00                      |

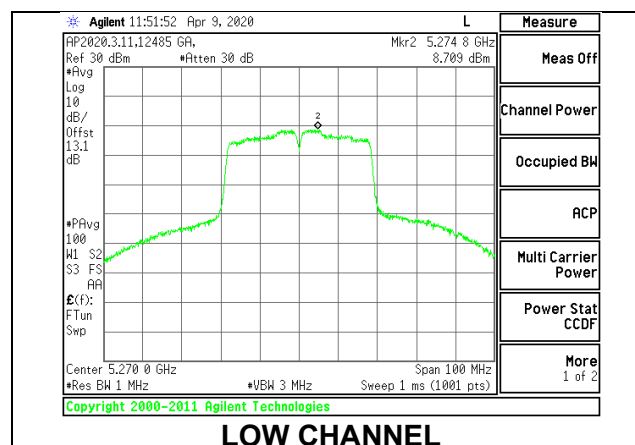
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.14 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 17.48                               | 17.48                             | 24.00                   | -6.52                   |
| High    | 5310               | 16.61                               | 16.61                             | 24.00                   | -7.39                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 8.709                                  | 8.709                                | 11.00                      | -2.291                |
| High    | 5310               | 3.295                                  | 3.295                                | 11.00                      | -7.705                |



NOTE: 5270MHz tested at higher power

# 1TX ANT 5 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/04/2020 |

## Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 39.58                       | -1.20                        | 24.00                   | 11.00                      |
| High    | 5310               | 39.91                       | -1.20                        | 24.00                   | 11.00                      |

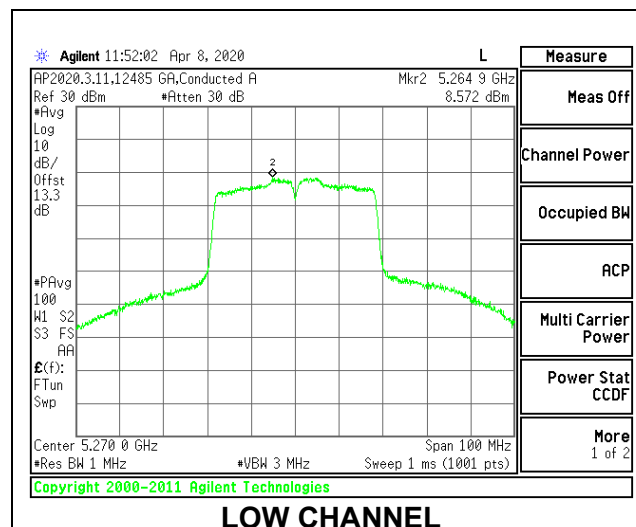
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.14 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

## Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 20.67                               | 20.67                             | 24.00                   | -3.33                   |
| High    | 5310               | 16.55                               | 16.55                             | 24.00                   | -7.45                   |

## PSD Results

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 8.572                                  | 8.712                                | 11.00                      | -2.288                |
| High    | 5310               | 3.312                                  | 3.312                                | 11.00                      | -7.688                |



## 2TX ANT 6 + ANT 5 CDD MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 39.46                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |
| High    | 5310               | 39.56                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |

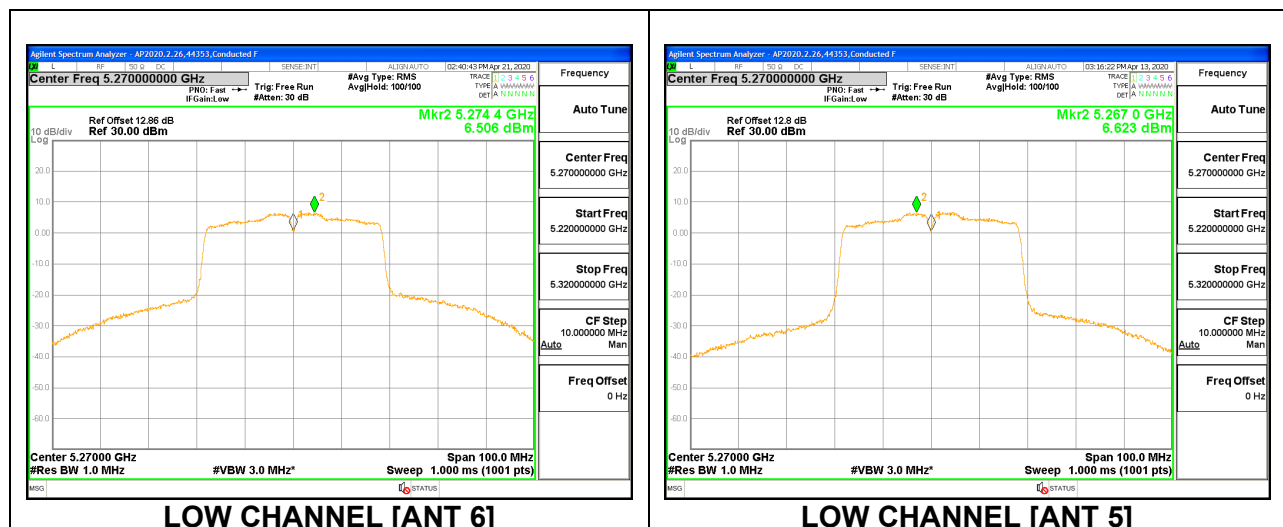
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.17 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 17.49                               | 19.61                               | 21.69                             | 24.00                   | -2.31                   |
| High    | 5310               | 15.21                               | 15.23                               | 18.23                             | 24.00                   | -5.77                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 6.506                                  | 6.623                                  | 9.745                                | 11.00                      | -1.255                |
| High    | 5310               | 2.443                                  | 2.642                                  | 5.724                                | 11.00                      | -5.276                |



NOTE: 5270MHz Antenna 6 PSD tested at higher power

## 9.4.9. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

### 1TX ANT 6 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 80.66                       | 1.40                         | 24.00                   | 11.00                      |

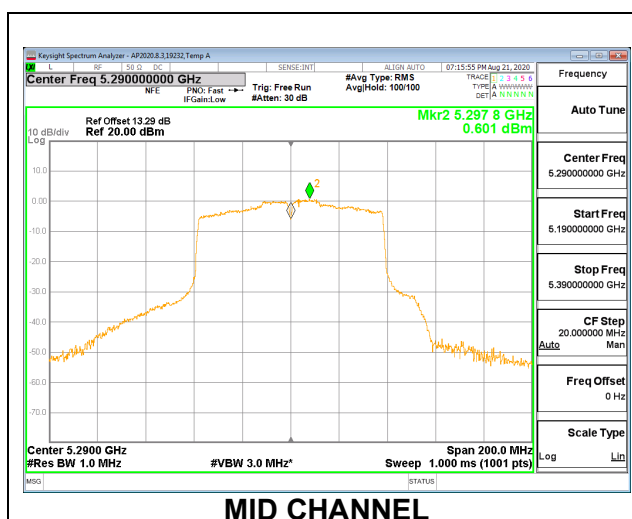
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.22 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 16.07                               | 16.07                             | 24.00                   | -7.93                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 0.601                                  | 0.821                                | 11.00                      | -10.179               |



# **1TX ANT 5 MODE (FCC)**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/04/2020 |

## **Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 80.34                       | -1.20                        | 24.00                   | 11.00                      |

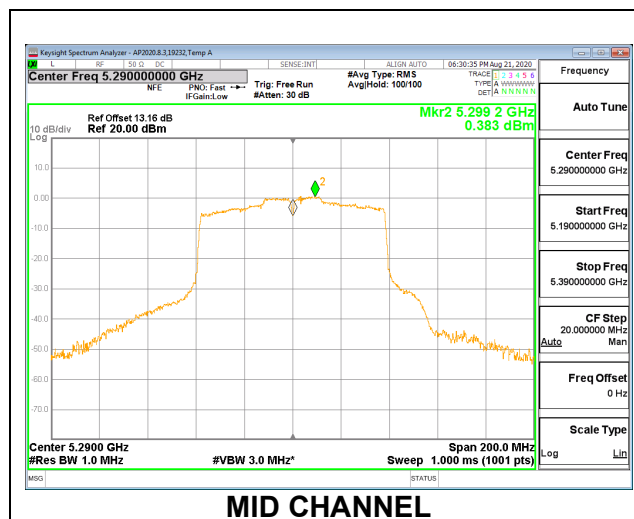
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.22 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

## **Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 16.09                               | 16.09                             | 24.00                   | -7.91                   |

## **PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 0.383                                  | 0.603                                | 11.00                      | -10.397               |



## 2TX ANT 6 + ANT 5 CDD MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 80.56                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |

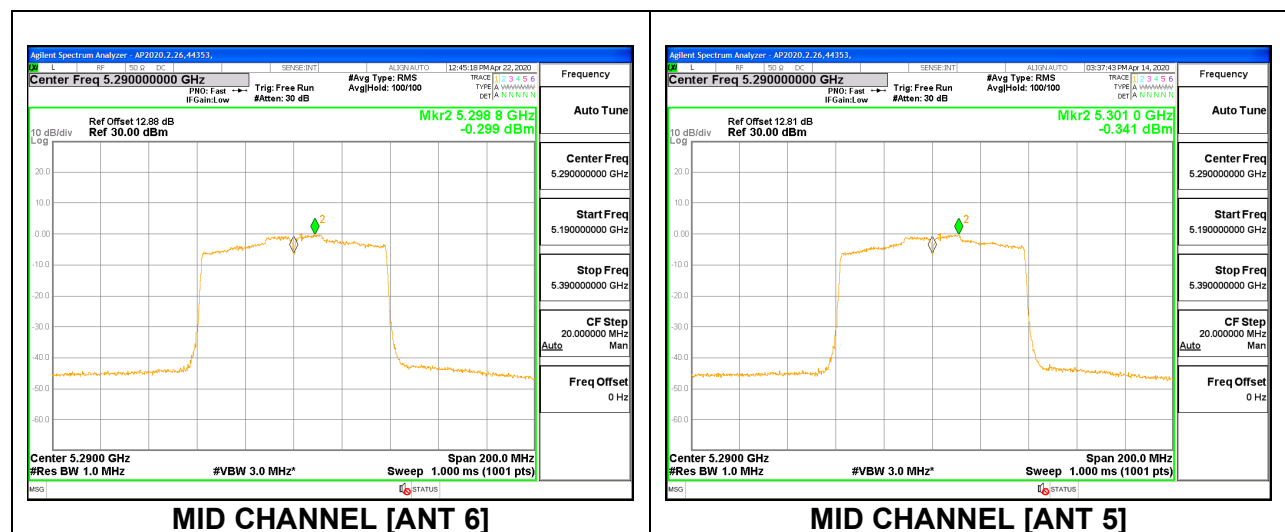
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.33 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 14.67                               | 14.73                               | 17.71                             | 24.00                   | -6.29                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | -0.299                                 | -0.341                                 | 3.020                                | 11.00                      | -7.980                |



## 9.4.10. 802.11ax HE20 MODE IN THE 5.3 GHz BAND

### 1TX ANT 6 MODE (FCC): 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 20.12                       | 1.40                         | 24.00                   | 11.00                      |
| Mid     | 5300               | 20.13                       | 1.40                         | 24.00                   | 11.00                      |
| High    | 5320               | 20.00                       | 1.40                         | 24.00                   | 11.00                      |

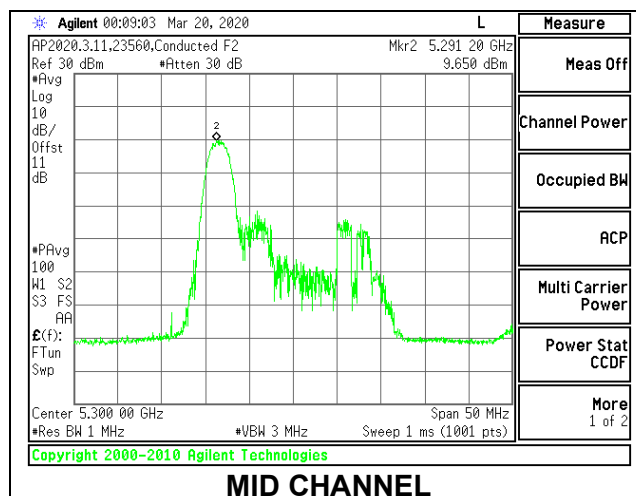
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| Mid     | 5300               | 11.66                               | 11.66                             | 24.00                   | -12.34                  |
| High    | 5320               | 11.62                               | 11.62                             | 24.00                   | -12.38                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 9.655                                  | 9.655                                | 11.00                      | -1.345                |
| Mid     | 5300               | 9.650                                  | 9.650                                | 11.00                      | -1.350                |
| High    | 5320               | 9.119                                  | 9.119                                | 11.00                      | -1.881                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 19.20                       | 1.40                         | 23.83                   | 11.00                      |
| Mid     | 5300               | 19.28                       | 1.40                         | 23.85                   | 11.00                      |
| High    | 5320               | 19.27                       | 1.40                         | 23.85                   | 11.00                      |

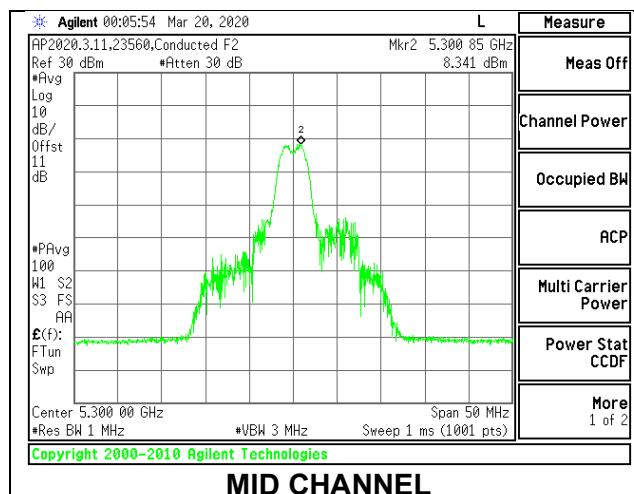
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 11.65                               | 11.65                             | 23.83                   | -12.18                  |
| Mid     | 5300               | 11.69                               | 11.69                             | 23.85                   | -12.16                  |
| High    | 5320               | 11.71                               | 11.71                             | 23.85                   | -12.14                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 8.216                                  | 8.216                                | 11.00                      | -2.784                |
| Mid     | 5300               | 8.341                                  | 8.341                                | 11.00                      | -2.659                |
| High    | 5320               | 8.505                                  | 8.505                                | 11.00                      | -2.495                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 20.58                       | 1.40                         | 24.00                   | 11.00                      |
| Mid     | 5300               | 20.66                       | 1.40                         | 24.00                   | 11.00                      |
| High    | 5320               | 20.42                       | 1.40                         | 24.00                   | 11.00                      |

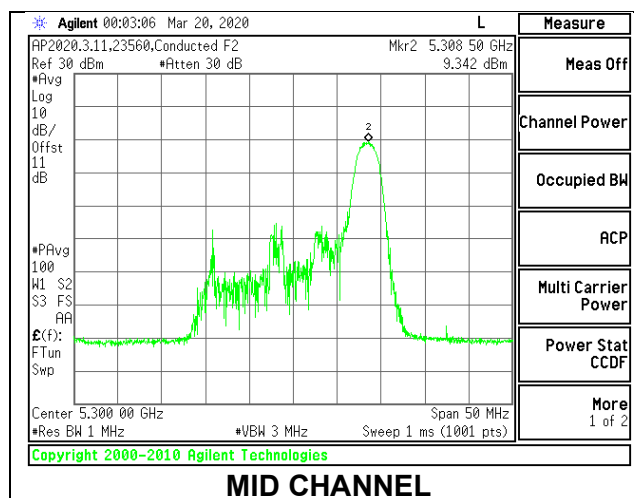
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 11.64                               | 11.64                             | 24.00                   | -12.36                  |
| Mid     | 5300               | 11.67                               | 11.67                             | 24.00                   | -12.33                  |
| High    | 5320               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 9.239                                  | 9.239                                | 11.00                      | -1.761                |
| Mid     | 5300               | 9.342                                  | 9.342                                | 11.00                      | -1.658                |
| High    | 5320               | 9.453                                  | 9.453                                | 11.00                      | -1.547                |



**1TX ANT 6 MODE (FCC): 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 21.07                       | 1.40                         | 24.00                   | 11.00                      |
| Mid     | 5300               | 21.06                       | 1.40                         | 24.00                   | 11.00                      |
| High    | 5320               | 21.06                       | 1.40                         | 24.00                   | 11.00                      |

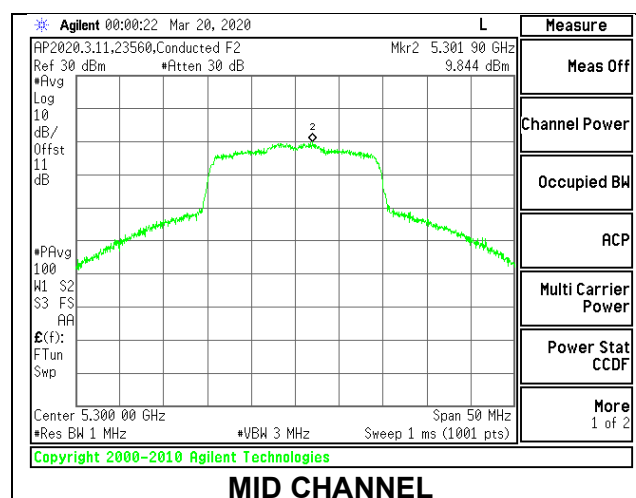
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 17.48                               | 17.48                             | 24.00                   | -6.52                   |
| Mid     | 5300               | 17.50                               | 17.50                             | 24.00                   | -6.50                   |
| High    | 5320               | 17.45                               | 17.45                             | 24.00                   | -6.55                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 9.537                                  | 9.537                                | 11.00                      | -1.463                |
| Mid     | 5300               | 9.844                                  | 9.844                                | 11.00                      | -1.156                |
| High    | 5320               | 6.370                                  | 6.370                                | 11.00                      | -4.630                |



NOTE: PSD tested at higher power

**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 20.22                       | -1.20                        | 24.00                   | 11.00                      |
| Mid     | 5300               | 20.10                       | -1.20                        | 24.00                   | 11.00                      |
| High    | 5320               | 19.74                       | -1.20                        | 23.95                   | 11.00                      |

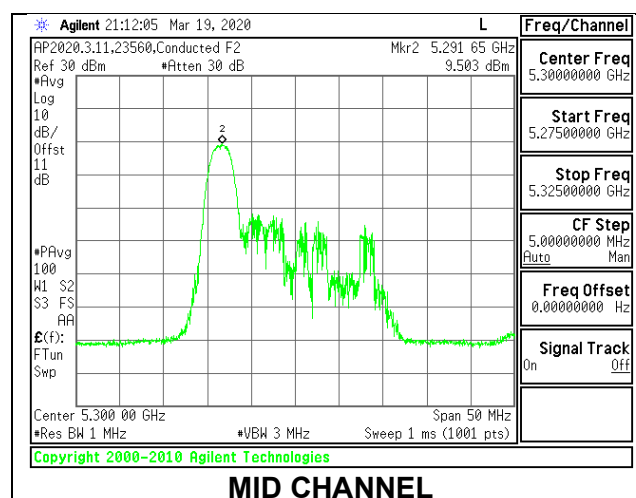
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 11.65                               | 11.65                             | 24.00                   | -12.35                  |
| Mid     | 5300               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| High    | 5320               | 11.69                               | 11.69                             | 23.95                   | -12.26                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 9.255                                  | 9.255                                | 11.00                      | -1.745                |
| Mid     | 5300               | 9.503                                  | 9.503                                | 11.00                      | -1.497                |
| High    | 5320               | 9.481                                  | 9.481                                | 11.00                      | -1.519                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 19.03                       | -1.20                        | 23.79                   | 11.00                      |
| Mid     | 5300               | 18.84                       | -1.20                        | 23.75                   | 11.00                      |
| High    | 5320               | 19.14                       | -1.20                        | 23.82                   | 11.00                      |

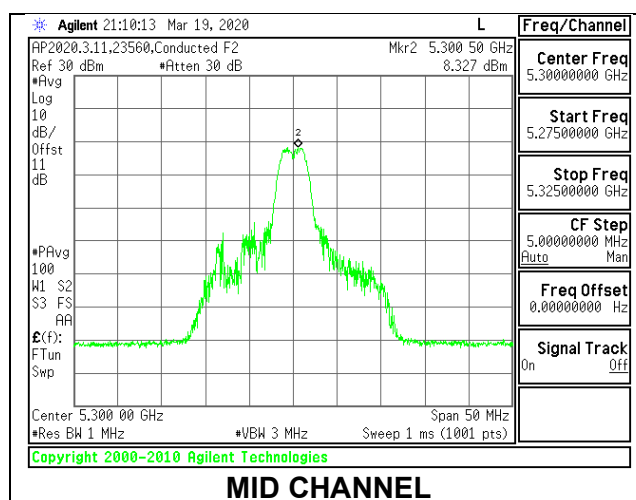
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 11.64                               | 11.64                             | 23.79                   | -12.15                  |
| Mid     | 5300               | 11.60                               | 11.60                             | 23.75                   | -12.15                  |
| High    | 5320               | 11.58                               | 11.58                             | 23.82                   | -12.24                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 8.435                                  | 8.435                                | 11.00                      | -2.565                |
| Mid     | 5300               | 8.327                                  | 8.327                                | 11.00                      | -2.673                |
| High    | 5320               | 8.296                                  | 8.296                                | 11.00                      | -2.704                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 20.34                       | -1.20                        | 24.00                   | 11.00                      |
| Mid     | 5300               | 20.26                       | -1.20                        | 24.00                   | 11.00                      |
| High    | 5320               | 20.33                       | -1.20                        | 24.00                   | 11.00                      |

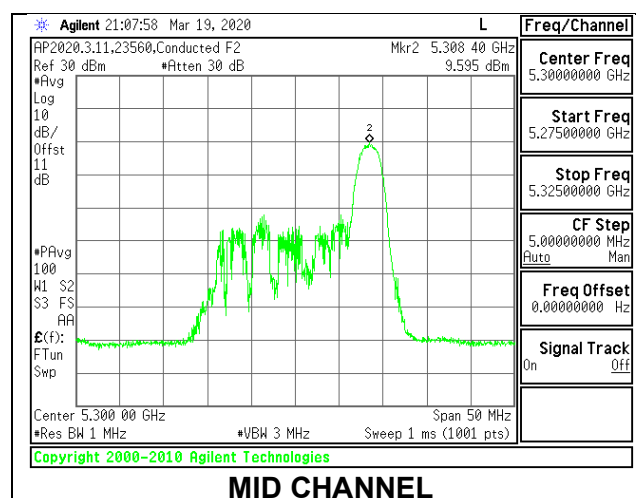
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 11.66                               | 11.66                             | 24.00                   | -12.34                  |
| Mid     | 5300               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| High    | 5320               | 11.60                               | 11.60                             | 24.00                   | -12.40                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 9.394                                  | 9.394                                | 11.00                      | -1.606                |
| Mid     | 5300               | 9.595                                  | 9.595                                | 11.00                      | -1.405                |
| High    | 5320               | 9.186                                  | 9.186                                | 11.00                      | -1.814                |



**1TX ANT 5 MODE (FCC): 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 21.01                       | -1.20                        | 24.00                   | 11.00                      |
| Mid     | 5300               | 21.05                       | -1.20                        | 24.00                   | 11.00                      |
| High    | 5320               | 21.01                       | -1.20                        | 24.00                   | 11.00                      |

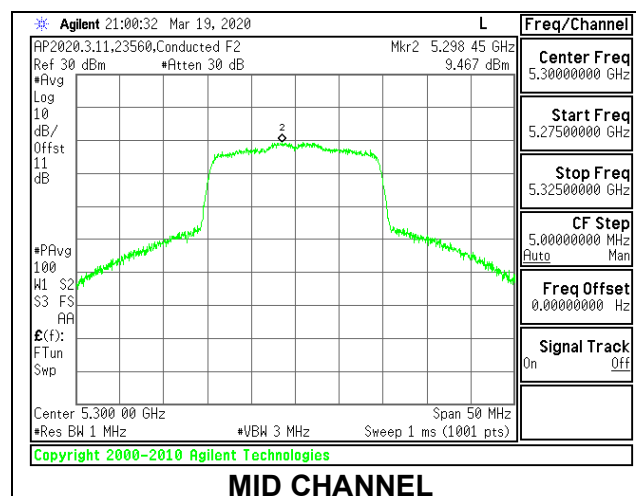
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 19.71                               | 19.71                             | 24.00                   | -4.29                   |
| Mid     | 5300               | 19.65                               | 19.65                             | 24.00                   | -4.35                   |
| High    | 5320               | 17.57                               | 17.57                             | 24.00                   | -6.43                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 9.605                                  | 9.605                                | 11.00                      | -1.395                |
| Mid     | 5300               | 9.467                                  | 9.467                                | 11.00                      | -1.533                |
| High    | 5320               | 6.173                                  | 6.173                                | 11.00                      | -4.827                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 19.58                       | 0.29                                      | 3.21                                    | 23.92                   | 11.00                      |
| Mid     | 5300               | 19.41                       | 0.29                                      | 3.21                                    | 23.88                   | 11.00                      |
| High    | 5320               | 19.57                       | 0.29                                      | 3.21                                    | 23.92                   | 11.00                      |

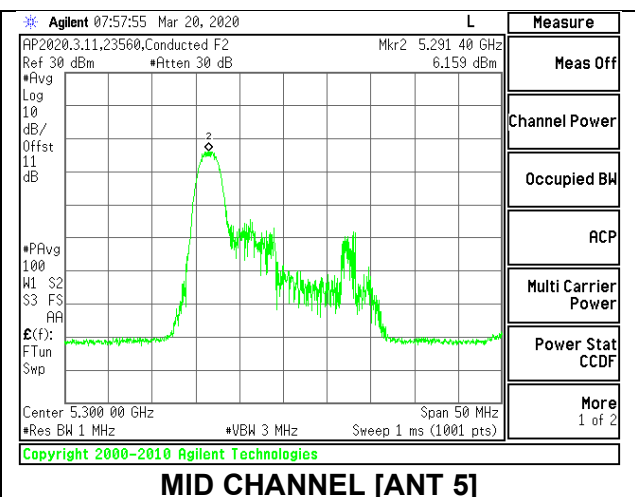
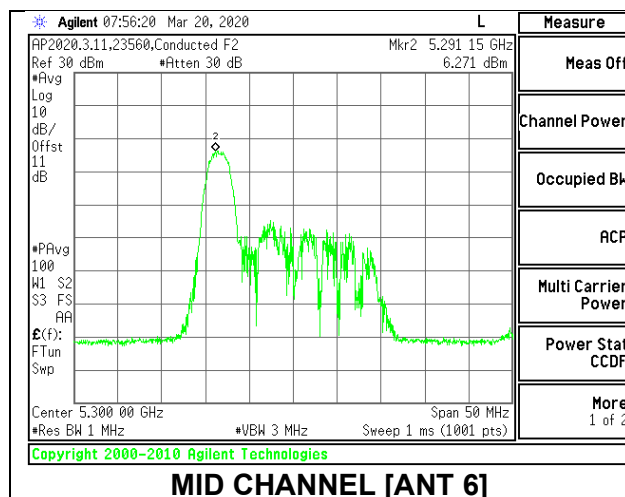
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 8.62                                | 8.71                                | 11.68                             | 23.92                   | -12.24                  |
| Mid     | 5300               | 8.65                                | 8.62                                | 11.65                             | 23.88                   | -12.23                  |
| High    | 5320               | 8.67                                | 8.73                                | 11.71                             | 23.92                   | -12.21                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 6.117                                  | 6.368                                  | 9.255                                | 11.00                      | -1.745                |
| Mid     | 5300               | 6.271                                  | 6.159                                  | 9.226                                | 11.00                      | -1.774                |
| High    | 5320               | 6.275                                  | 6.385                                  | 9.341                                | 11.00                      | -1.659                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 18.32                       | 0.29                                      | 3.21                                    | 23.63                   | 11.00                      |
| Mid     | 5300               | 18.15                       | 0.29                                      | 3.21                                    | 23.59                   | 11.00                      |
| High    | 5320               | 18.11                       | 0.29                                      | 3.21                                    | 23.58                   | 11.00                      |

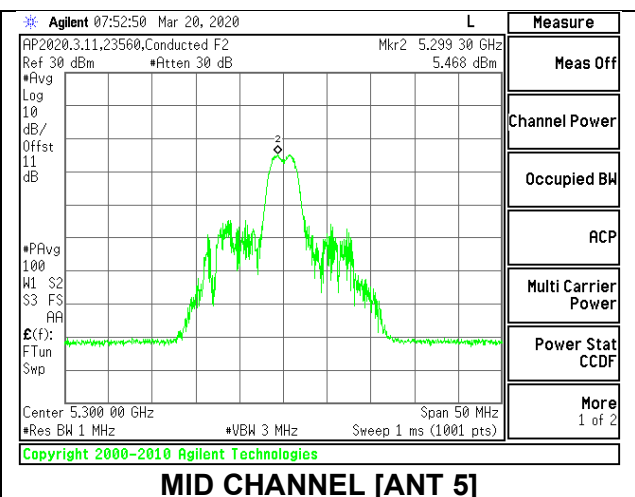
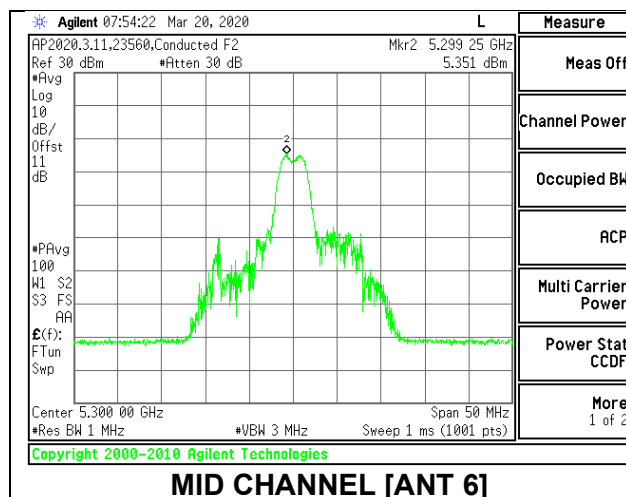
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 8.60                                | 8.62                                | 11.62                             | 23.63                   | -12.01                  |
| Mid     | 5300               | 8.64                                | 8.70                                | 11.68                             | 23.59                   | -11.91                  |
| High    | 5320               | 8.65                                | 8.62                                | 11.65                             | 23.58                   | -11.93                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 5.289                                  | 5.114                                  | 8.213                                | 11.00                      | -2.787                |
| Mid     | 5300               | 5.351                                  | 5.468                                  | 8.420                                | 11.00                      | -2.580                |
| High    | 5320               | 5.186                                  | 5.330                                  | 8.269                                | 11.00                      | -2.731                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 19.73                       | 0.29                                      | 3.21                                    | 23.95                   | 11.00                      |
| Mid     | 5300               | 19.59                       | 0.29                                      | 3.21                                    | 23.92                   | 11.00                      |
| High    | 5320               | 19.63                       | 0.29                                      | 3.21                                    | 23.93                   | 11.00                      |

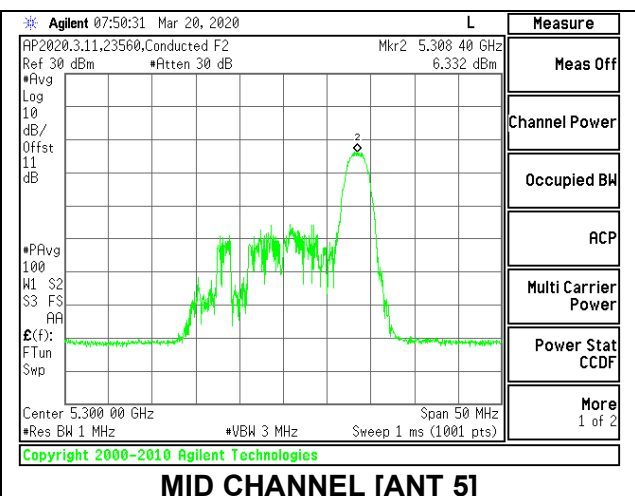
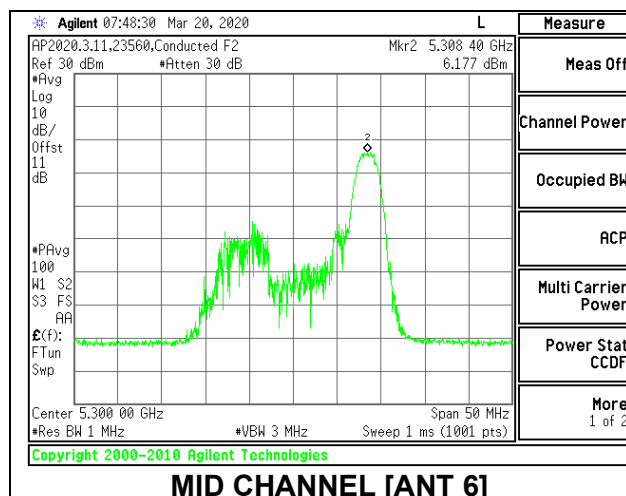
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 8.62                                | 8.64                                | 11.64                             | 23.95                   | -12.31                  |
| Mid     | 5300               | 8.64                                | 8.63                                | 11.65                             | 23.92                   | -12.28                  |
| High    | 5320               | 8.68                                | 8.71                                | 11.71                             | 23.93                   | -12.22                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 6.074                                  | 6.342                                  | 9.220                                | 11.00                      | -1.780                |
| Mid     | 5300               | 6.177                                  | 6.332                                  | 9.265                                | 11.00                      | -1.735                |
| High    | 5320               | 6.229                                  | 6.516                                  | 9.385                                | 11.00                      | -1.615                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5260               | 20.90                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |
| Mid     | 5300               | 20.86                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |
| High    | 5320               | 20.91                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |

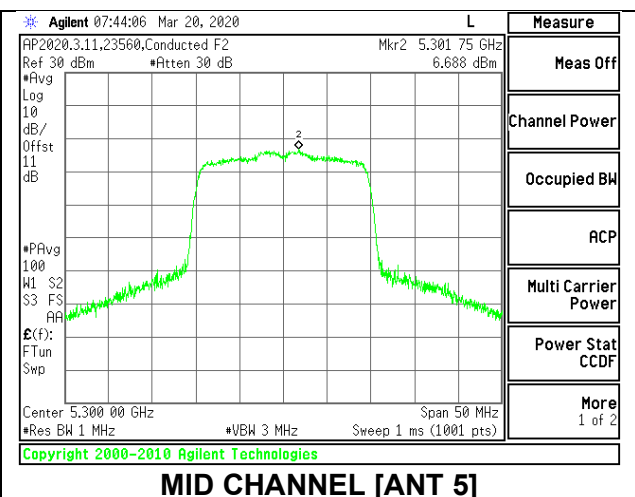
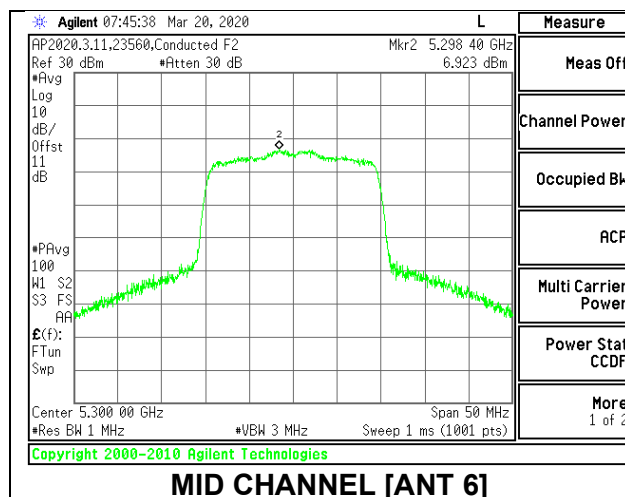
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5260               | 16.68                               | 16.58                               | 19.64                             | 24.00                   | -4.36                   |
| Mid     | 5300               | 16.71                               | 16.67                               | 19.70                             | 24.00                   | -4.30                   |
| High    | 5320               | 16.61                               | 16.63                               | 19.63                             | 24.00                   | -4.37                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5260               | 6.732                                  | 6.406                                  | 9.582                                | 11.00                      | -1.418                |
| Mid     | 5300               | 6.923                                  | 6.688                                  | 9.817                                | 11.00                      | -1.183                |
| High    | 5320               | 6.417                                  | 6.574                                  | 9.507                                | 11.00                      | -1.493                |



### 9.4.11. 802.11ax HE40 MODE IN THE 5.3 GHz BAND

#### 1TX ANT 6 MODE (FCC): 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 20.47                       | 1.40                         | 24.00                   | 11.00                      |
| High    | 5310               | 20.61                       | 1.40                         | 24.00                   | 11.00                      |

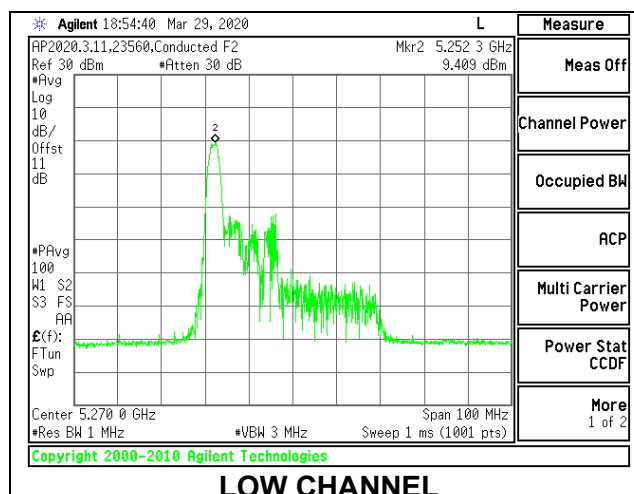
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| High    | 5310               | 11.66                               | 11.66                             | 24.00                   | -12.34                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 9.409                                  | 9.409                                | 11.00                      | -1.591                |
| High    | 5310               | 9.314                                  | 9.314                                | 11.00                      | -1.686                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 23.31                       | 1.40                         | 24.00                   | 11.00                      |
| High    | 5310               | 23.91                       | 1.40                         | 24.00                   | 11.00                      |

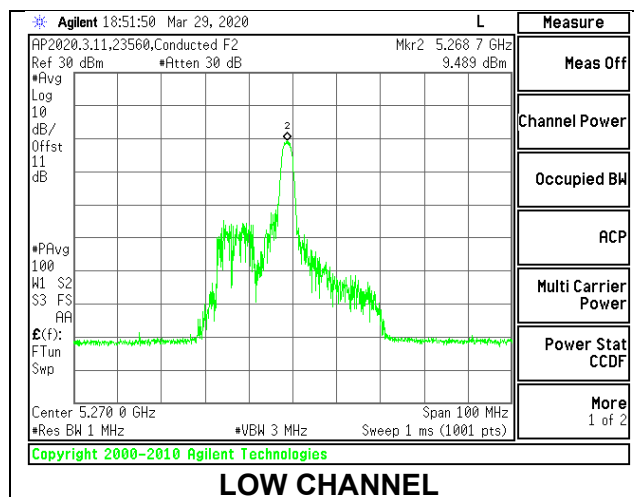
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 11.67                               | 11.67                             | 24.00                   | -12.33                  |
| High    | 5310               | 11.64                               | 11.64                             | 24.00                   | -12.36                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 9.489                                  | 9.489                                | 11.00                      | -1.511                |
| High    | 5310               | 9.363                                  | 9.363                                | 11.00                      | -1.637                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 20.61                       | 1.40                         | 24.00                   | 11.00                      |
| High    | 5310               | 20.57                       | 1.40                         | 24.00                   | 11.00                      |

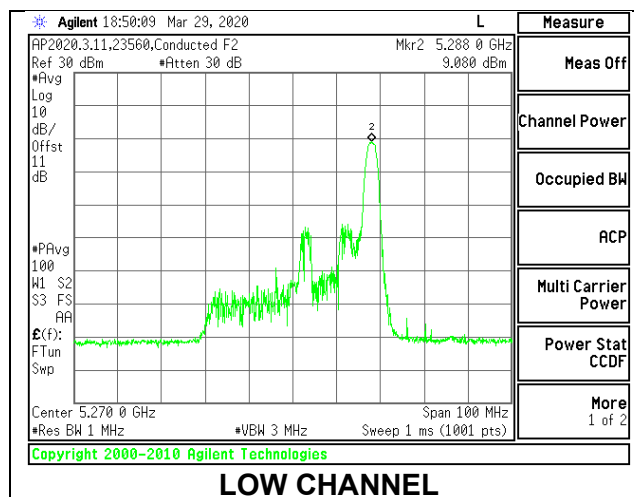
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 11.65                               | 11.65                             | 24.00                   | -12.35                  |
| High    | 5310               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 9.080                                  | 9.080                                | 11.00                      | -1.920                |
| High    | 5310               | 9.149                                  | 9.149                                | 11.00                      | -1.851                |



**1TX ANT 6 MODE (FCC): 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 39.82                       | 1.40                         | 24.00                   | 11.00                      |
| High    | 5310               | 39.92                       | 1.40                         | 24.00                   | 11.00                      |

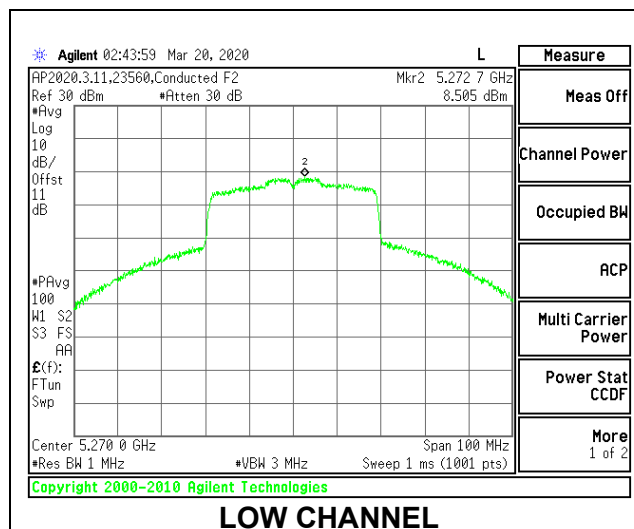
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 17.43                               | 17.43                             | 24.00                   | -6.57                   |
| High    | 5310               | 15.73                               | 15.73                             | 24.00                   | -8.27                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 8.505                                  | 8.505                                | 11.00                      | -2.495                |
| High    | 5310               | 1.683                                  | 1.683                                | 11.00                      | -9.317                |



NOTE: 5270MHz PSD tested at higher power

**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 19.87                       | -1.20                        | 23.98                   | 11.00                      |
| High    | 5310               | 20.71                       | -1.20                        | 24.00                   | 11.00                      |

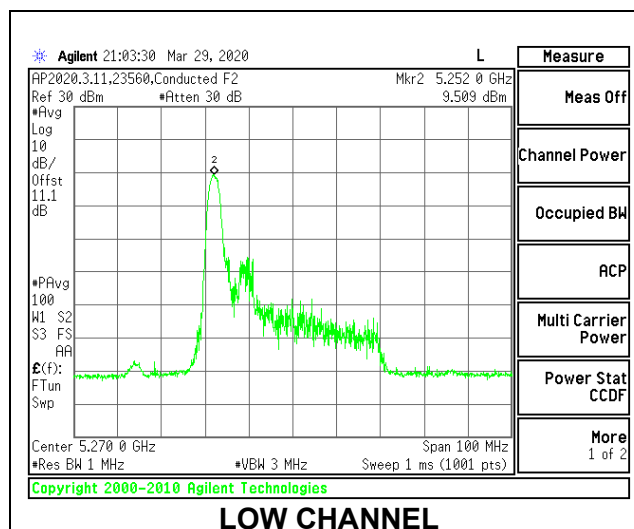
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 11.68                               | 11.68                             | 23.98                   | -12.30                  |
| High    | 5310               | 11.66                               | 11.66                             | 24.00                   | -12.34                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 9.509                                  | 9.509                                | 11.00                      | -1.491                |
| High    | 5310               | 9.464                                  | 9.464                                | 11.00                      | -1.536                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 22.81                       | -1.20                        | 24.00                   | 11.00                      |
| High    | 5310               | 23.42                       | -1.20                        | 24.00                   | 11.00                      |

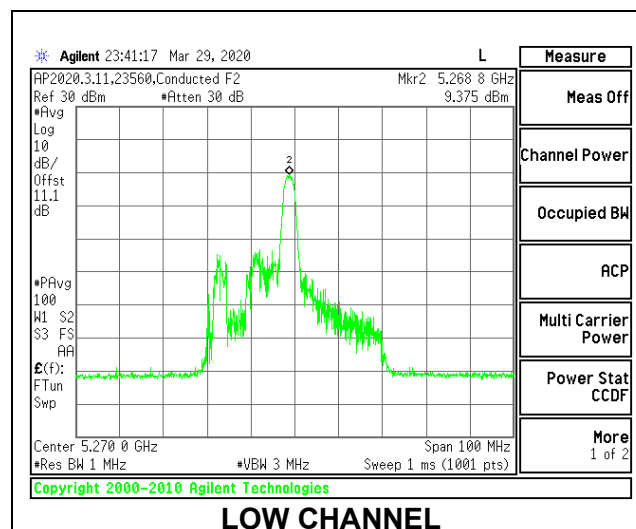
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 11.66                               | 11.66                             | 24.00                   | -12.34                  |
| High    | 5310               | 11.67                               | 11.67                             | 24.00                   | -12.33                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 9.375                                  | 9.375                                | 11.00                      | -1.625                |
| High    | 5310               | 9.413                                  | 9.413                                | 11.00                      | -1.587                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 20.01                       | -1.20                        | 24.00                   | 11.00                      |
| High    | 5310               | 20.02                       | -1.20                        | 24.00                   | 11.00                      |

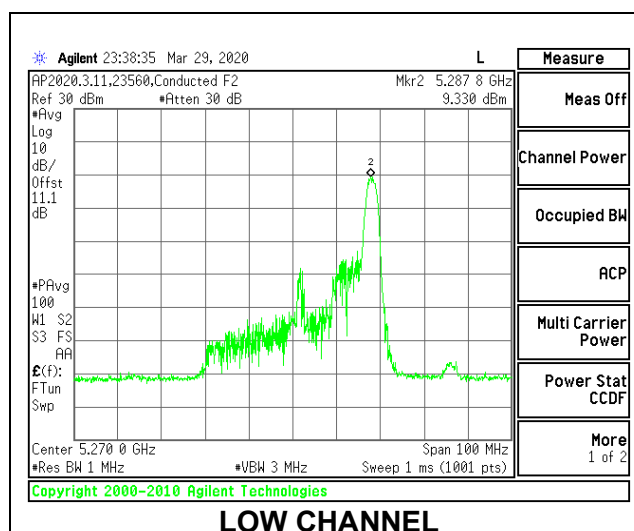
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| High    | 5310               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 9.330                                  | 9.330                                | 11.00                      | -1.670                |
| High    | 5310               | 9.446                                  | 9.446                                | 11.00                      | -1.554                |



**1TX ANT 5 MODE (FCC): 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 39.59                       | -1.20                        | 24.00                   | 11.00                      |
| High    | 5310               | 39.95                       | -1.20                        | 24.00                   | 11.00                      |

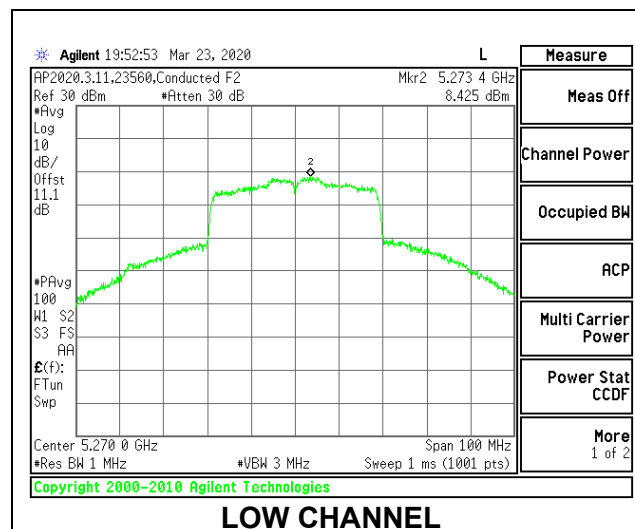
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 20.66                               | 20.66                             | 24.00                   | -3.34                   |
| High    | 5310               | 15.72                               | 15.72                             | 24.00                   | -8.28                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 8.425                                  | 8.425                                | 11.00                      | -2.575                |
| High    | 5310               | 1.826                                  | 1.826                                | 11.00                      | -9.174                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 19.99                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |
| High    | 5310               | 19.59                       | 0.29                                      | 3.21                                    | 23.92                   | 11.00                      |

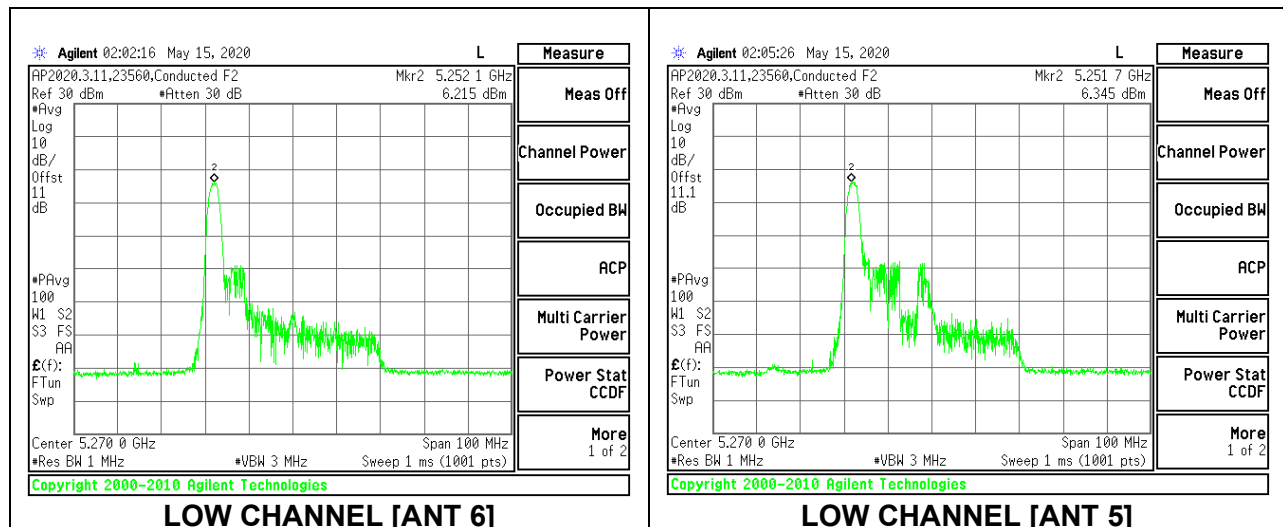
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 8.62                                | 8.67                                | 11.66                             | 24.00                   | -12.34                  |
| High    | 5310               | 8.65                                | 8.71                                | 11.69                             | 23.92                   | -12.23                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 6.215                                  | 6.345                                  | 9.291                                | 11.00                      | -1.709                |
| High    | 5310               | 6.322                                  | 6.417                                  | 9.380                                | 11.00                      | -1.620                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 23.26                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |
| High    | 5310               | 23.10                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |

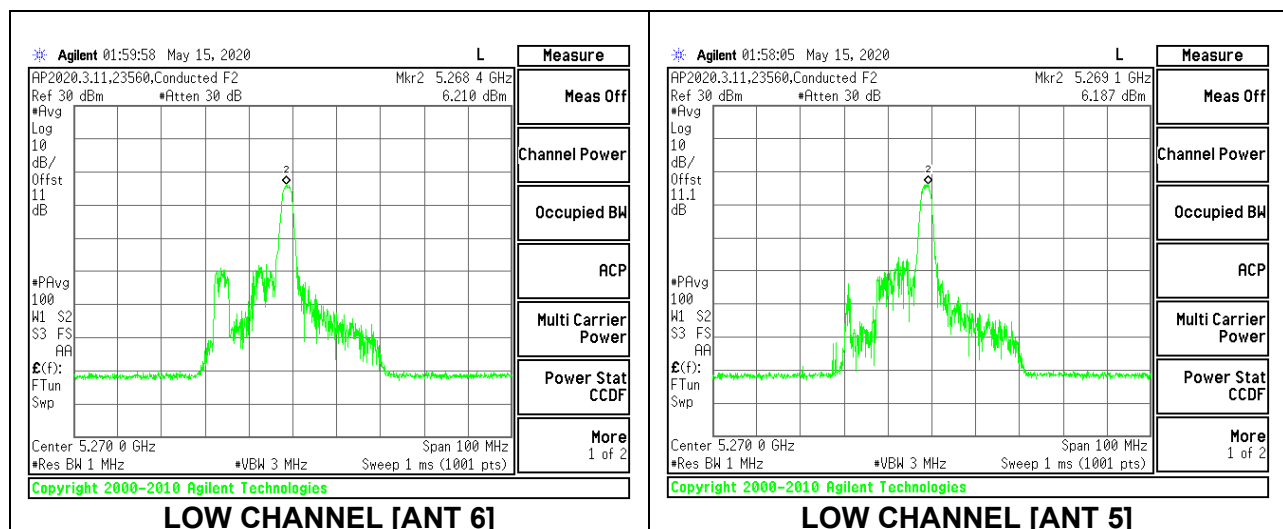
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 8.64                                | 8.61                                | 11.64                             | 24.00                   | -12.36                  |
| High    | 5310               | 8.62                                | 8.65                                | 11.65                             | 24.00                   | -12.35                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 6.210                                  | 6.187                                  | 9.209                                | 11.00                      | -1.791                |
| High    | 5310               | 5.873                                  | 6.044                                  | 8.970                                | 11.00                      | -2.030                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 19.31                       | 0.29                                      | 3.21                                    | 23.86                   | 11.00                      |
| High    | 5310               | 19.37                       | 0.29                                      | 3.21                                    | 23.87                   | 11.00                      |

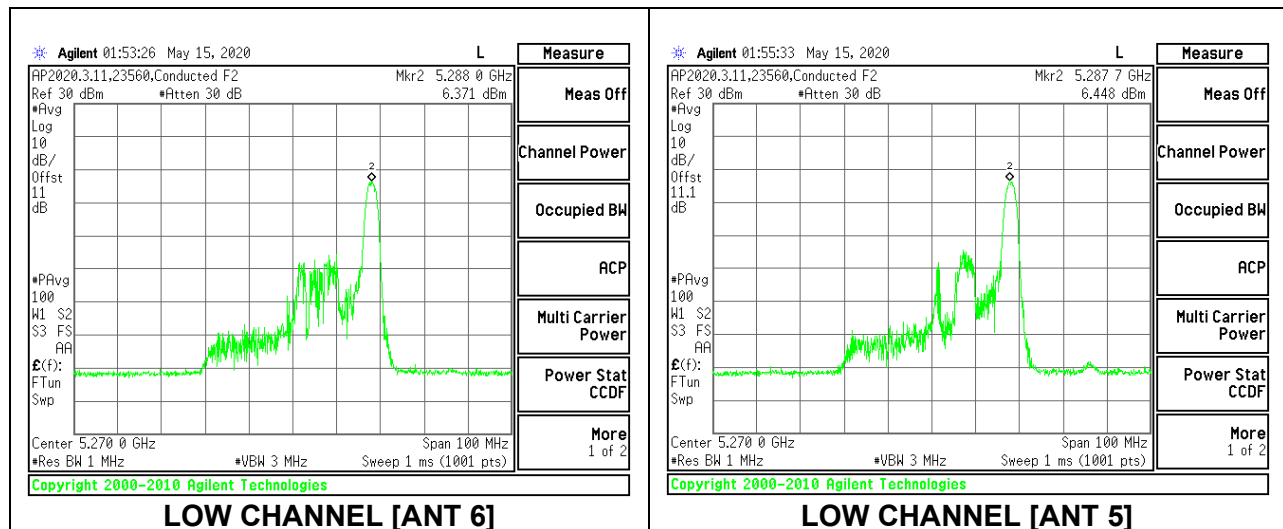
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 8.69                                | 8.66                                | 11.69                             | 23.86                   | -12.17                  |
| High    | 5310               | 8.63                                | 8.65                                | 11.65                             | 23.87                   | -12.22                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 6.371                                  | 6.448                                  | 9.420                                | 11.00                      | -1.580                |
| High    | 5310               | 6.243                                  | 6.298                                  | 9.281                                | 11.00                      | -1.719                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5270               | 39.69                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |
| High    | 5310               | 39.49                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |

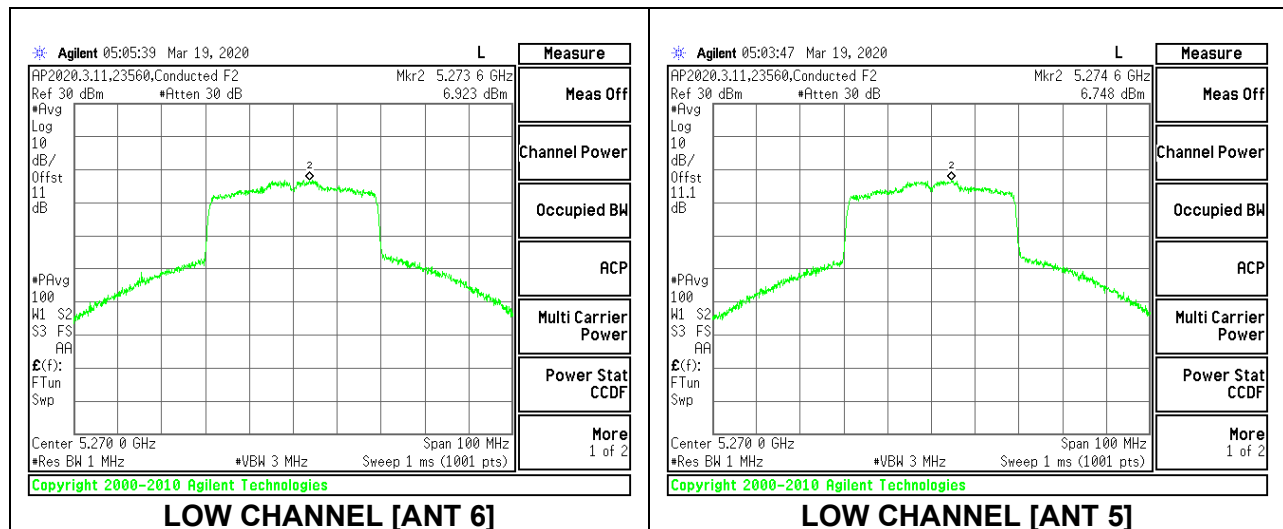
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5270               | 17.42                               | 19.68                               | 21.71                             | 24.00                   | -2.29                   |
| High    | 5310               | 15.22                               | 15.20                               | 18.22                             | 24.00                   | -5.78                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5270               | 6.923                                  | 6.748                                  | 9.847                                | 11.00                      | -1.153                |
| High    | 5310               | 1.450                                  | 1.388                                  | 4.429                                | 11.00                      | -6.571                |



NOTE: Antenna 6 5270MHz PSD tested at higher power

## 9.4.12. 802.11ax HE80 MODE IN THE 5.3 GHz BAND

### 1TX ANT 6 MODE (FCC): 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 19.67                       | 1.40                         | 23.94                   | 11.00                      |

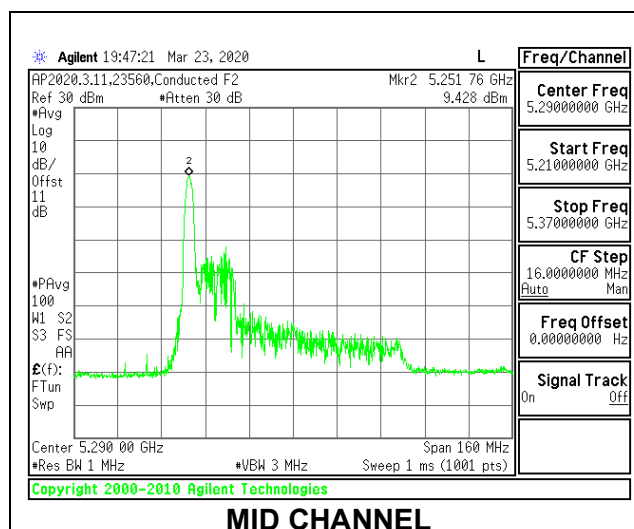
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 11.69                               | 11.69                             | 23.94                   | -12.25                  |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 9.428                                  | 9.428                                | 11.00                      | -1.572                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 38.85                       | 1.40                         | 24.00                   | 11.00                      |

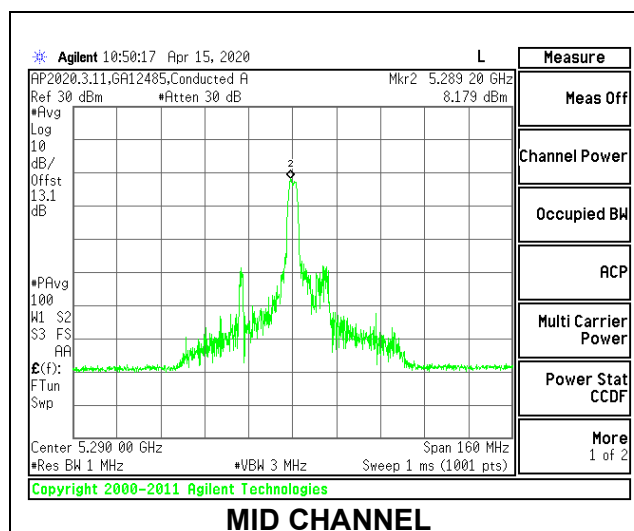
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 8.179                                  | 8.179                                | 11.00                      | -2.821                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 20.73                       | 1.40                         | 24.00                   | 11.00                      |

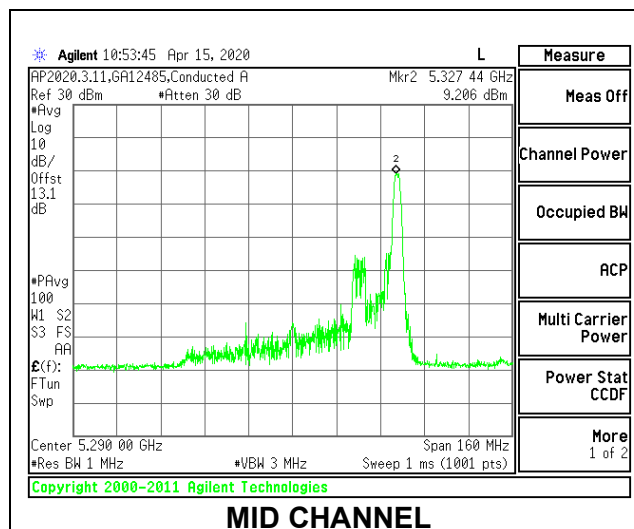
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 9.206                                  | 9.206                                | 11.00                      | -1.794                |



**1TX ANT 6 MODE (FCC): 996 Tones, RU Index 67**

|                       |            |
|-----------------------|------------|
| <b>Test Engineer:</b> | 12485 GA   |
| <b>Test Date:</b>     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 80.42                       | 1.40                         | 24.00                   | 11.00                      |

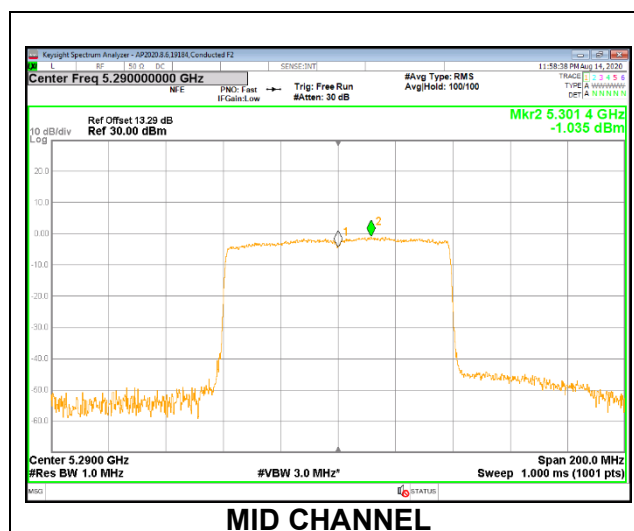
|                           |      |                                               |
|---------------------------|------|-----------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|-----------------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 15.69                               | 15.69                             | 24.00                   | -8.31                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | -1.035                                 | -1.035                               | 11.00                      | -12.035               |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 19.54                       | -1.20                        | 23.91                   | 11.00                      |

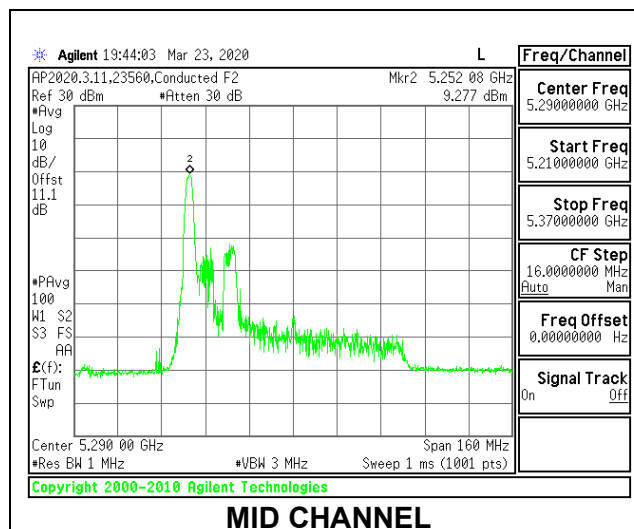
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 11.72                               | 11.72                             | 23.91                   | -12.19                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 9.277                                  | 9.277                                | 11.00                      | -1.723                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/04/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 40.19                       | -1.20                        | 24.00                   | 11.00                      |

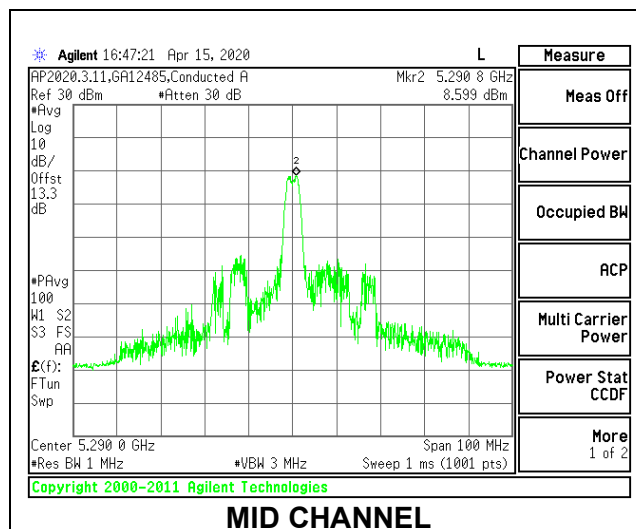
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 11.67                               | 11.67                             | 24.00                   | -12.33                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 8.599                                  | 8.599                                | 11.00                      | -2.401                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 20.07                       | -1.20                        | 24.00                   | 11.00                      |

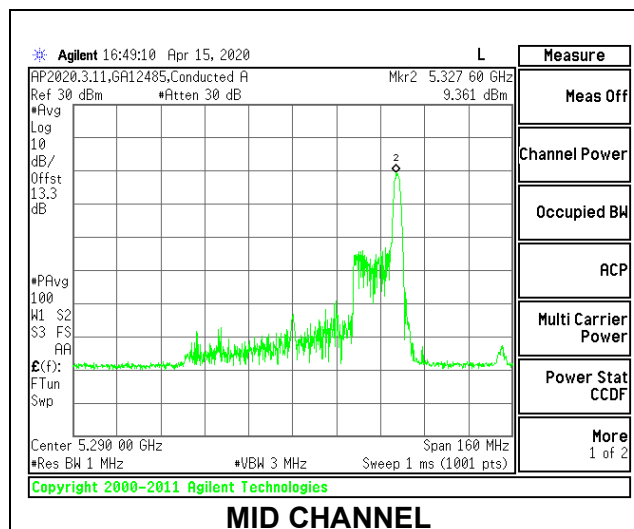
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 11.69                               | 11.69                             | 24.00                   | -12.31                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 9.361                                  | 9.361                                | 11.00                      | -1.639                |



**1TX ANT 5 MODE (FCC): 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 80.76                       | -1.20                        | 24.00                   | 11.00                      |

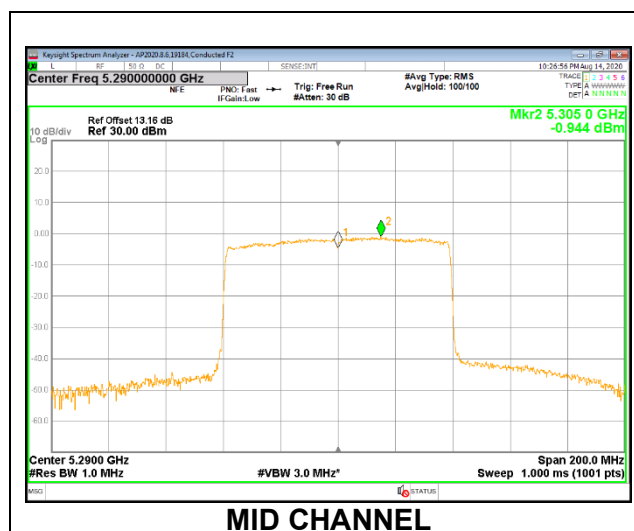
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 15.65                               | 15.65                             | 24.00                   | -8.35                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | -0.944                                 | -0.944                               | 11.00                      | -11.944               |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 19.43                       | 0.29                                      | 3.21                                    | 23.88                   | 11.00                      |

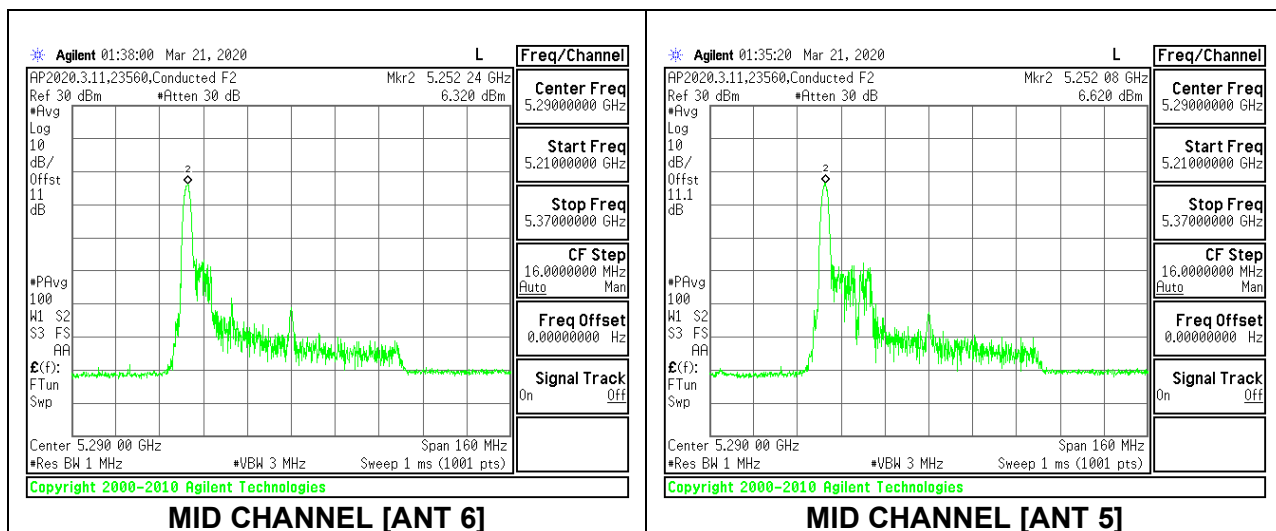
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 8.65                                | 8.68                                | 11.68                             | 23.88                   | -12.21                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 6.320                                  | 6.620                                  | 9.483                                | 11.00                      | -1.517                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 38.67                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |

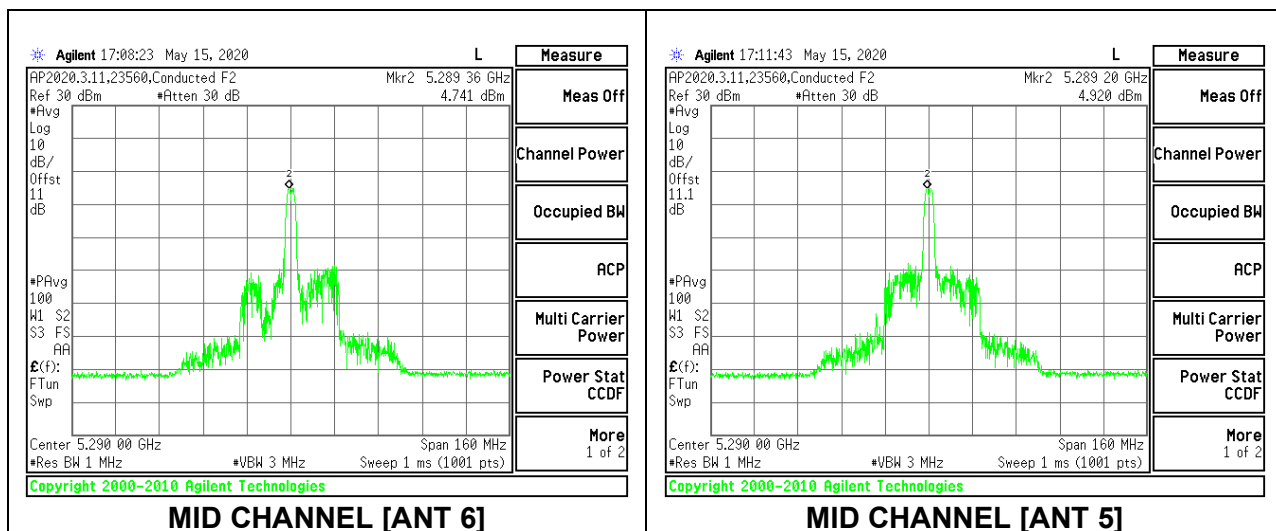
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 8.65                                | 8.70                                | 11.69                             | 24.00                   | -12.31                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 4.741                                  | 4.920                                  | 7.842                                | 11.00                      | -3.158                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 19.67                       | 0.29                                      | 3.21                                    | 23.94                   | 11.00                      |

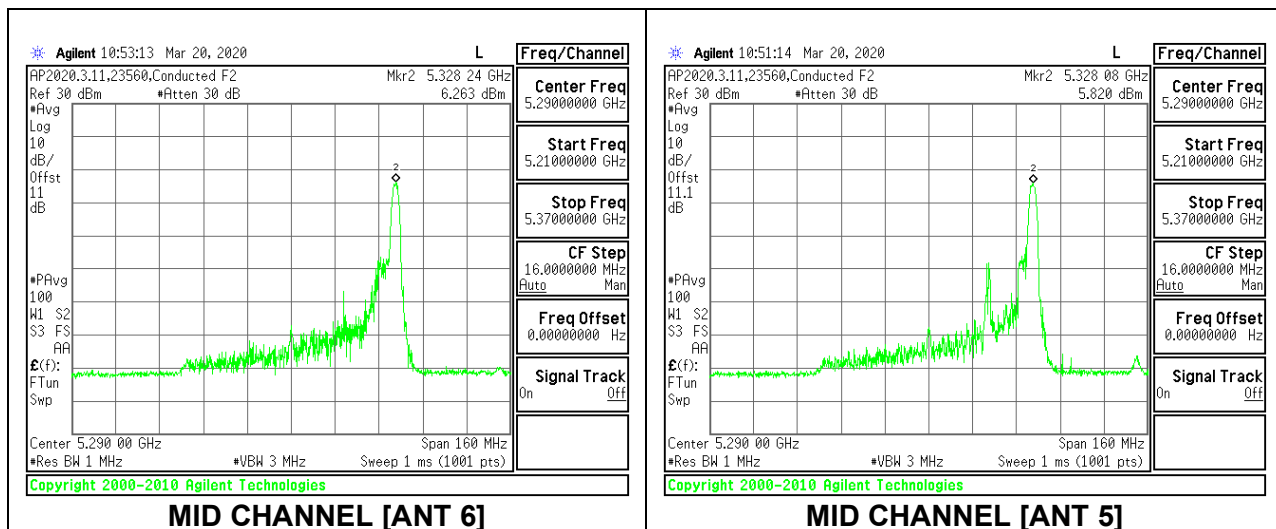
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 8.69                                | 8.66                                | 11.69                             | 23.94                   | -12.25                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | 6.263                                  | 5.820                                  | 9.057                                | 11.00                      | -1.943                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Mid     | 5290               | 80.51                       | 0.29                                      | 3.21                                    | 24.00                   | 11.00                      |

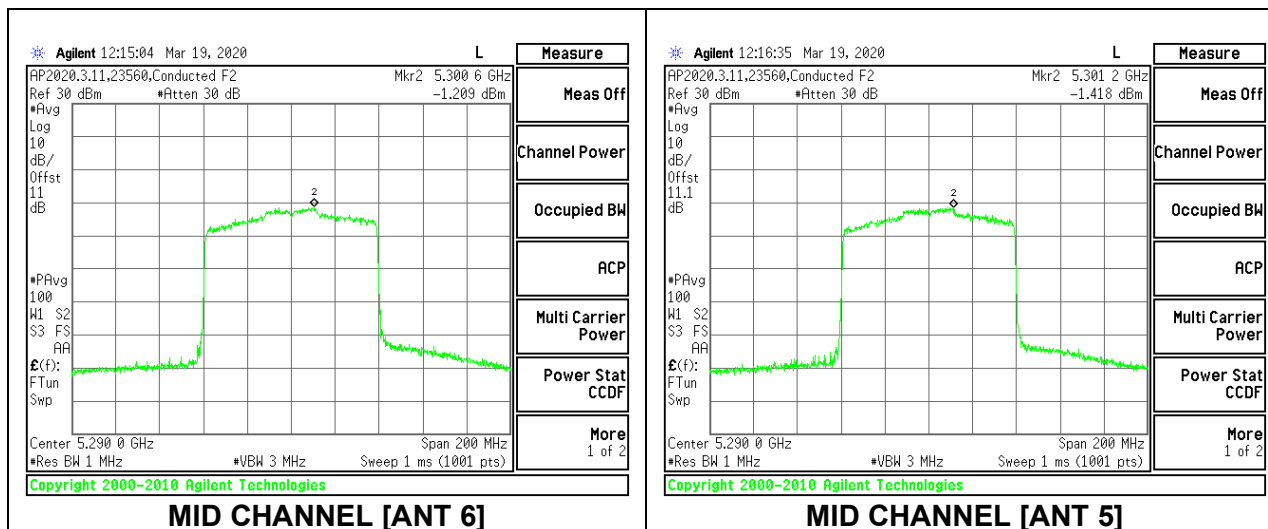
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5290               | 14.74                               | 14.72                               | 17.74                             | 24.00                   | -6.26                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Mid     | 5290               | -1.209                                 | -1.418                                 | 1.698                                | 11.00                      | -9.302                |



### 9.4.13. 802.11n HT20 MODE IN THE 5.6 GHz BAND

#### 1TX ANT 6 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 21.22                       | 0.60                         | 24.00                   | 11.00                      |
| Mid     | 5580               | 21.05                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5700               | 21.04                       | 0.60                         | 24.00                   | 11.00                      |
| 144     | 5720               | 15.80                       | 0.60                         | 22.99                   | 11.00                      |

|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

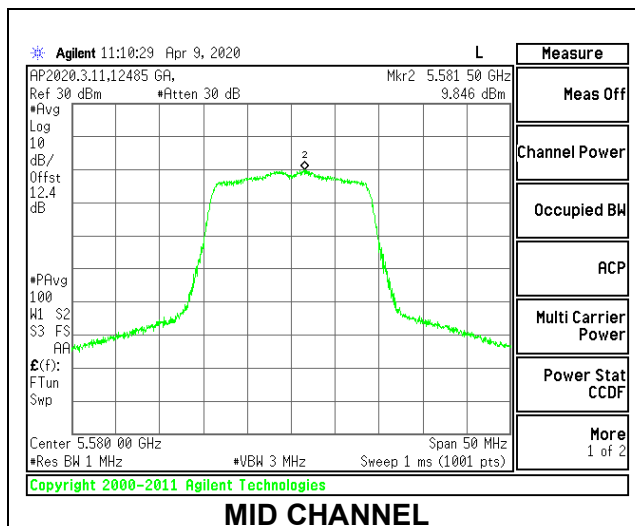
#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 16.49                               | 16.49                             | 24.00                   | -7.51                   |
| Mid     | 5580               | 16.50                               | 16.50                             | 24.00                   | -7.50                   |
| High    | 5700               | 16.44                               | 16.44                             | 24.00                   | -7.56                   |
| 144     | 5720               | 16.39                               | 16.39                             | 22.99                   | -6.60                   |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 8.176                                  | 8.176                                | 11.00                      | -2.824                |
| Mid     | 5580               | 9.846                                  | 9.846                                | 11.00                      | -1.154                |
| High    | 5700               | 7.789                                  | 7.789                                | 11.00                      | -3.211                |
| 144     | 5720               | 5.275                                  | 5.275                                | 11.00                      | -5.725                |

NOTE: 5500/5580/5700 PSD tested at higher power



# **1TX ANT 5 MODE (FCC)**

|                       |            |
|-----------------------|------------|
| <b>Test Engineer:</b> | 12485 GA   |
| <b>Test Date:</b>     | 08/05/2020 |

## **Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 20.80                       | -0.20                        | 24.00                   | 11.00                      |
| Mid     | 5580               | 20.71                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5700               | 20.43                       | -0.20                        | 24.00                   | 11.00                      |
| 144     | 5720               | 15.82                       | -0.20                        | 22.99                   | 11.00                      |

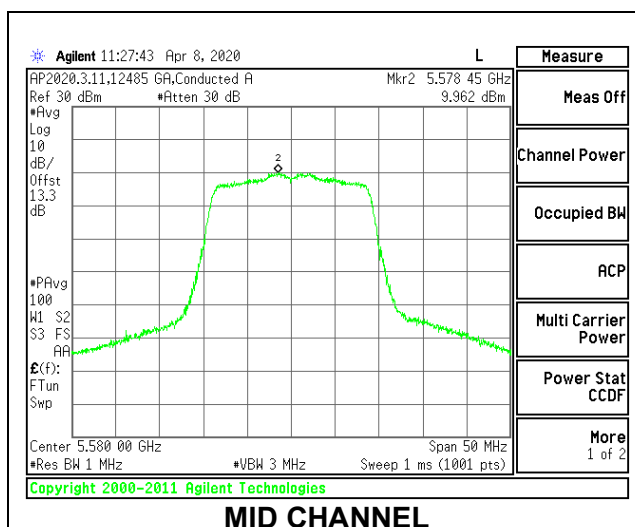
|                           |      |                                            |
|---------------------------|------|--------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations Corr'd PSD</b> |
|---------------------------|------|--------------------------------------------|

## **Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 18.01                               | 18.01                             | 24.00                   | -5.99                   |
| Mid     | 5580               | 19.71                               | 19.71                             | 24.00                   | -4.29                   |
| High    | 5700               | 17.52                               | 17.52                             | 24.00                   | -6.48                   |
| 144     | 5720               | 19.68                               | 19.68                             | 22.99                   | -3.31                   |

## **PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 8.416                                  | 8.416                                | 11.00                      | -2.584                |
| Mid     | 5580               | 9.962                                  | 9.962                                | 11.00                      | -1.038                |
| High    | 5700               | 7.773                                  | 7.773                                | 11.00                      | -3.227                |
| 144     | 5720               | 5.198                                  | 5.198                                | 11.00                      | -5.802                |



**2TX ANT 6 + ANT 5 CDD MODE (FCC)**

|                       |            |
|-----------------------|------------|
| <b>Test Engineer:</b> | 44353      |
| <b>Test Date:</b>     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 21.04                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| Mid     | 5580               | 21.06                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| High    | 5700               | 21.04                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| 144     | 5720               | 15.80                       | 0.22                                      | 3.22                                    | 22.99                   | 11.00                      |

|                           |      |                                               |
|---------------------------|------|-----------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|-----------------------------------------------|

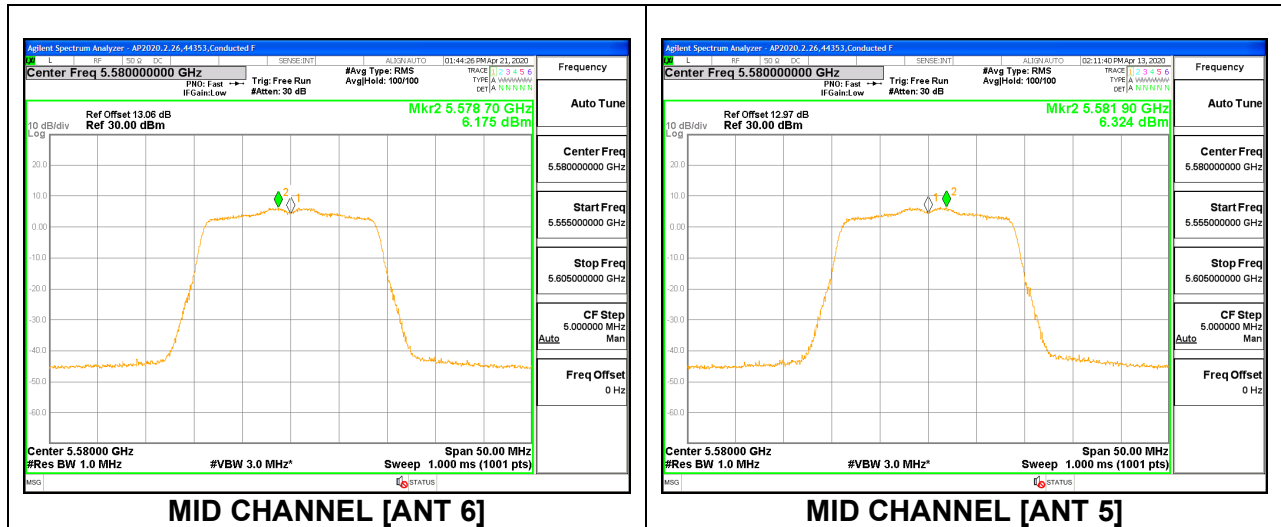
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 16.37                               | 16.62                               | 19.51                             | 24.00                   | -4.49                   |
| Mid     | 5580               | 16.29                               | 16.64                               | 19.48                             | 24.00                   | -4.52                   |
| High    | 5700               | 16.34                               | 16.73                               | 19.55                             | 24.00                   | -4.45                   |
| 144     | 5720               | 16.36                               | 16.72                               | 19.55                             | 22.99                   | -3.43                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 6.345                                  | 6.213                                  | 9.290                                | 11.00                      | -1.710                |
| Mid     | 5580               | 6.175                                  | 6.324                                  | 9.260                                | 11.00                      | -1.740                |
| High    | 5700               | 6.321                                  | 6.508                                  | 9.426                                | 11.00                      | -1.574                |
| 144     | 5720               | 6.328                                  | 6.502                                  | 9.426                                | 11.00                      | -1.574                |

NOTE: Antenna 6 PSD tested at higher power



#### 9.4.14. 802.11n HT40 MODE IN THE 5.6 GHz BAND

##### 1TX ANT 6 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

##### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 39.74                       | 0.60                         | 24.00                   | 11.00                      |
| Mid     | 5550               | 39.84                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5670               | 39.39                       | 0.60                         | 24.00                   | 11.00                      |
| 142     | 5710               | 37.00                       | 0.60                         | 24.00                   | 11.00                      |

|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.14 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

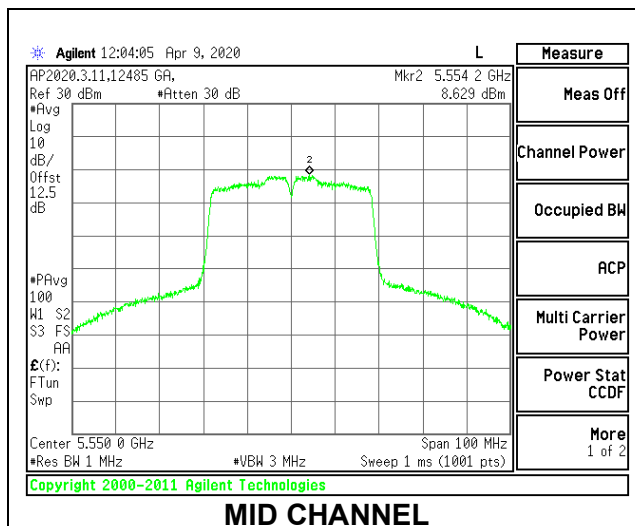
##### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 16.20                               | 16.20                             | 24.00                   | -7.80                   |
| Mid     | 5550               | 16.65                               | 16.65                             | 24.00                   | -7.35                   |
| High    | 5670               | 16.60                               | 16.60                             | 24.00                   | -7.40                   |
| 142     | 5710               | 16.62                               | 16.76                             | 24.00                   | -7.24                   |

##### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 4.248                                  | 4.388                                | 11.00                      | -6.612                |
| Mid     | 5550               | 8.629                                  | 8.769                                | 11.00                      | -2.231                |
| High    | 5670               | 5.723                                  | 5.863                                | 11.00                      | -5.137                |
| 142     | 5710               | 8.406                                  | 8.546                                | 11.00                      | -2.454                |

NOTE: 5550/5670/5710 PSD tested at higher power



# **1TX ANT 5 MODE (FCC)**

|                       |            |
|-----------------------|------------|
| <b>Test Engineer:</b> | 23560      |
| <b>Test Date:</b>     | 08/05/2020 |

## **Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 39.69                       | -0.20                        | 24.00                   | 11.00                      |
| Mid     | 5550               | 39.06                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5670               | 39.34                       | -0.20                        | 24.00                   | 11.00                      |
| 142     | 5710               | 36.80                       | -0.20                        | 24.00                   | 11.00                      |

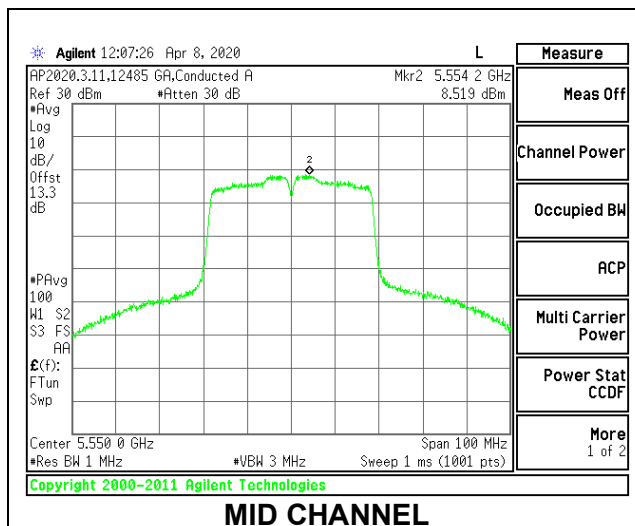
|                           |      |                                            |
|---------------------------|------|--------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.14 | <b>Included in Calculations Corr'd PSD</b> |
|---------------------------|------|--------------------------------------------|

## **Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 16.19                               | 16.19                             | 24.00                   | -7.81                   |
| Mid     | 5550               | 20.69                               | 20.69                             | 24.00                   | -3.31                   |
| High    | 5670               | 20.35                               | 20.35                             | 24.00                   | -3.65                   |
| 142     | 5710               | 20.66                               | 20.80                             | 24.00                   | -3.20                   |

## **PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 4.372                                  | 4.512                                | 11.00                      | -6.488                |
| Mid     | 5550               | 8.519                                  | 8.659                                | 11.00                      | -2.341                |
| High    | 5670               | 6.048                                  | 6.188                                | 11.00                      | -4.812                |
| 142     | 5710               | 8.211                                  | 8.351                                | 11.00                      | -2.649                |



**2TX ANT 6 + ANT 5 CDD MODE (FCC)**

|                       |            |
|-----------------------|------------|
| <b>Test Engineer:</b> | 44353      |
| <b>Test Date:</b>     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 39.40                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| Mid     | 5550               | 39.37                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| High    | 5670               | 39.23                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| 142     | 5710               | 36.90                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |

|                           |      |                                                           |
|---------------------------|------|-----------------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.17 | <b>Included in Calculations of Corr'd Power &amp; PSD</b> |
|---------------------------|------|-----------------------------------------------------------|

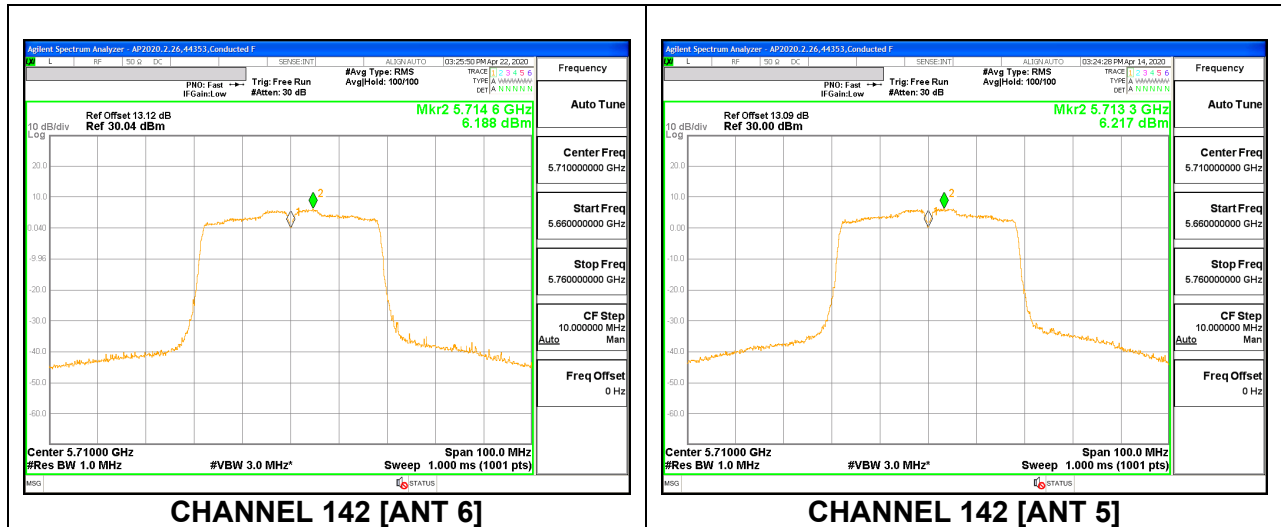
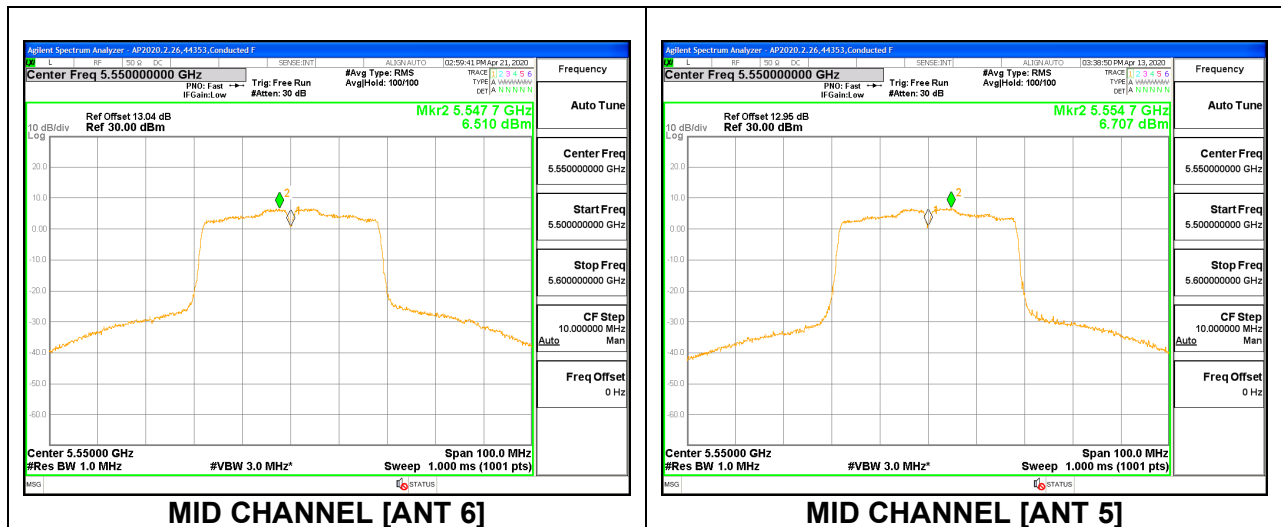
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 15.20                               | 15.24                               | 18.23                             | 24.00                   | -5.77                   |
| Mid     | 5550               | 16.45                               | 19.75                               | 21.42                             | 24.00                   | -2.58                   |
| High    | 5670               | 16.40                               | 19.63                               | 21.32                             | 24.00                   | -2.68                   |
| 142     | 5710               | 16.46                               | 19.70                               | 21.56                             | 24.00                   | -2.44                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/ 1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| Low     | 5510               | 2.383                                  | 2.879                                  | 5.818                                | 11.00                       | -5.18                 |
| Mid     | 5550               | 6.510                                  | 6.707                                  | 9.790                                | 11.00                       | -1.21                 |
| High    | 5670               | 5.062                                  | 4.943                                  | 8.183                                | 11.00                       | -2.82                 |
| 142     | 5710               | 6.188                                  | 6.217                                  | 9.383                                | 11.00                       | -1.62                 |

NOTE: 5550/5670/5710 PSD tested at higher power



### 9.4.15. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

#### 1TX ANT 6 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 80.41                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5610               | 80.90                       | 0.60                         | 24.00                   | 11.00                      |
| 138     | 5690               | 76.60                       | 0.60                         | 24.00                   | 11.00                      |

|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.22 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

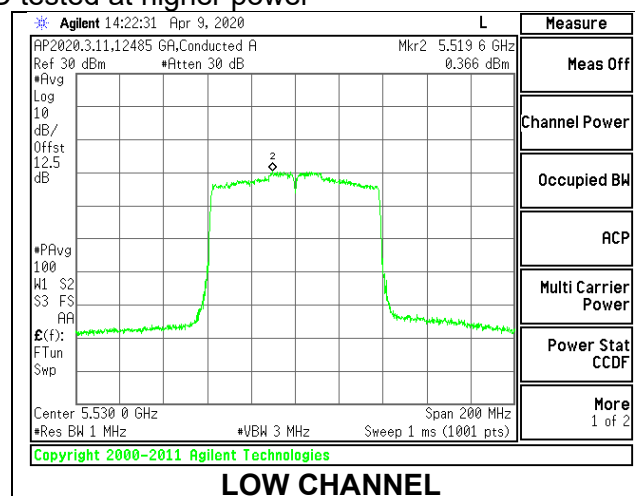
#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 15.24                               | 15.24                             | 24.00                   | -8.76                   |
| High    | 5610               | 16.50                               | 16.50                             | 24.00                   | -7.50                   |
| 138     | 5690               | 16.44                               | 16.66                             | 24.00                   | -7.34                   |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 0.366                                  | 0.586                                | 11.00                      | -10.414               |
| High    | 5610               | 5.616                                  | 5.836                                | 11.00                      | -5.164                |
| 138     | 5690               | 5.413                                  | 5.633                                | 11.00                      | -5.367                |

NOTE: 5610/5690 PSD tested at higher power



# 1TX ANT 5 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

## Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 80.47                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5610               | 80.38                       | -0.20                        | 24.00                   | 11.00                      |
| 138     | 5690               | 76.60                       | -0.20                        | 24.00                   | 11.00                      |

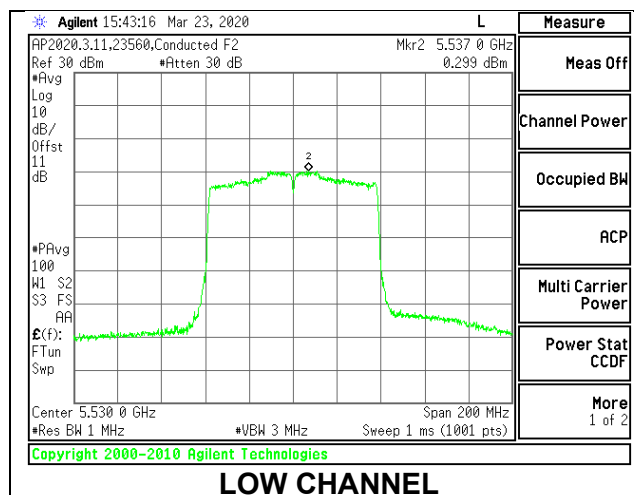
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.22 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

## Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 15.29                               | 15.29                             | 24.00                   | -8.71                   |
| High    | 5610               | 21.19                               | 21.19                             | 24.00                   | -2.81                   |
| 138     | 5690               | 21.18                               | 21.40                             | 24.00                   | -2.60                   |

## PSD Results

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 0.299                                  | 0.519                                | 11.00                      | -10.481               |
| High    | 5610               | 5.352                                  | 5.572                                | 11.00                      | -5.428                |
| 138     | 5690               | 5.358                                  | 5.578                                | 11.00                      | -5.422                |



## 2TX ANT 6 + ANT 5 CDD MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 80.10                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| High    | 5610               | 80.62                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| 138     | 5690               | 76.50                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.33 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

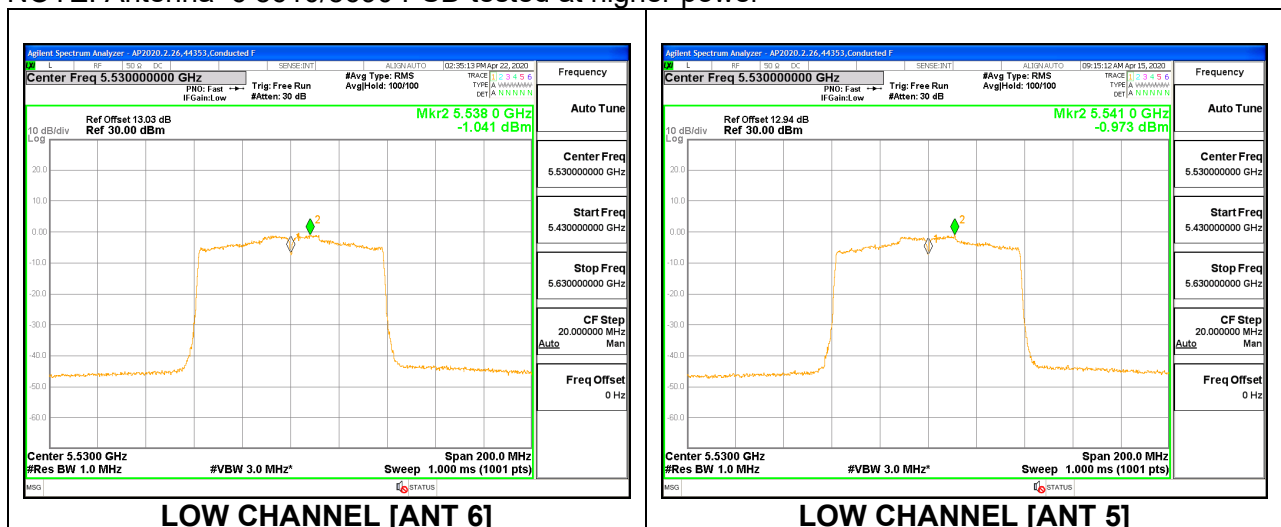
### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 14.54                               | 14.56                               | 17.56                             | 24.00                   | -6.44                   |
| High    | 5610               | 16.40                               | 19.70                               | 21.37                             | 24.00                   | -2.63                   |
| 138     | 5690               | 16.43                               | 19.64                               | 21.67                             | 24.00                   | -2.33                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | -1.041                                 | -0.973                                 | 2.333                                | 11.00                      | -8.667                |
| High    | 5610               | 3.582                                  | 3.491                                  | 6.877                                | 11.00                      | -4.123                |
| 138     | 5690               | 3.409                                  | 3.211                                  | 6.651                                | 11.00                      | -4.349                |

NOTE: Antenna 6 5610/5690 PSD tested at higher power



### 9.4.16. 802.11ax HE20 MODE IN THE 5.6 GHz BAND

#### 1TX ANT 6 MODE (FCC): 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 20.07                       | 0.60                         | 24.00                   | 11.00                      |
| Mid     | 5580               | 20.06                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5700               | 20.10                       | 0.60                         | 24.00                   | 11.00                      |
| 144     | 5720               | 19.76                       | 0.60                         | 23.96                   | 11.00                      |

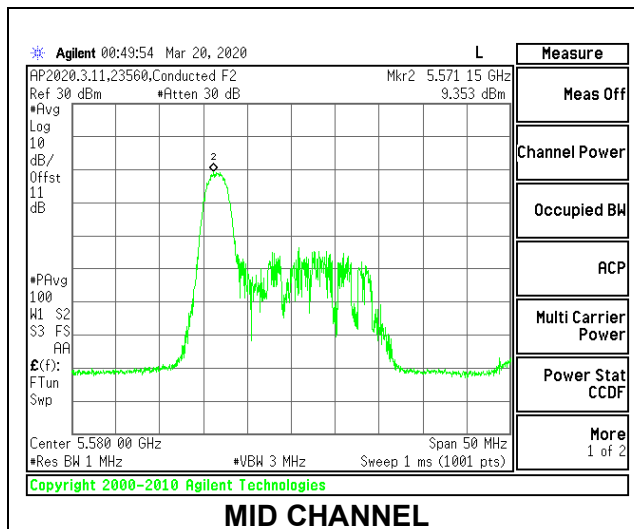
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 11.69                               | 11.69                             | 24.00                   | -12.31                  |
| Mid     | 5580               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| High    | 5700               | 11.66                               | 11.66                             | 24.00                   | -12.34                  |
| 144     | 5720               | 11.64                               | 11.64                             | 23.96                   | -12.32                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 9.639                                  | 9.639                                | 11.00                      | -1.361                |
| Mid     | 5580               | 9.353                                  | 9.353                                | 11.00                      | -1.647                |
| High    | 5700               | 9.591                                  | 9.591                                | 11.00                      | -1.409                |
| 144     | 5720               | 8.840                                  | 8.840                                | 11.00                      | -2.160                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 19.33                       | 0.60                         | 23.86                   | 11.00                      |
| Mid     | 5580               | 19.29                       | 0.60                         | 23.85                   | 11.00                      |
| High    | 5700               | 19.33                       | 0.60                         | 23.86                   | 11.00                      |
| 144     | 5720               | 19.14                       | 0.60                         | 23.82                   | 11.00                      |

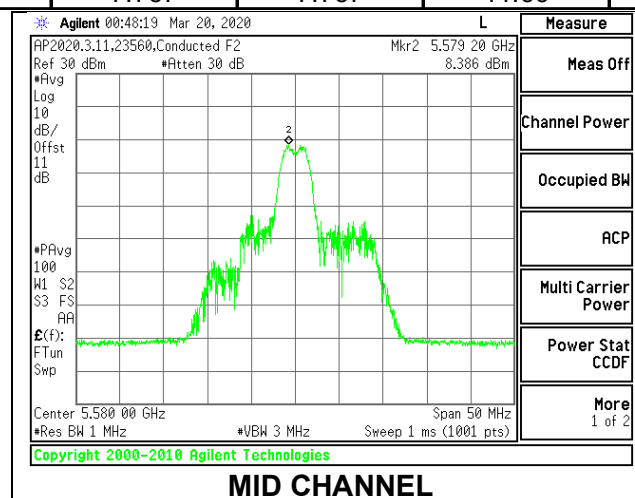
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 11.62                               | 11.62                             | 23.86                   | -12.24                  |
| Mid     | 5580               | 11.68                               | 11.68                             | 23.85                   | -12.17                  |
| High    | 5700               | 11.71                               | 11.71                             | 23.86                   | -12.15                  |
| 144     | 5720               | 11.65                               | 11.65                             | 23.82                   | -12.17                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 8.252                                  | 8.252                                | 11.00                      | -2.748                |
| Mid     | 5580               | 8.386                                  | 8.386                                | 11.00                      | -2.614                |
| High    | 5700               | 8.475                                  | 8.475                                | 11.00                      | -2.525                |
| 144     | 5720               | 7.767                                  | 7.767                                | 11.00                      | -3.233                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 20.39                       | 0.60                         | 24.00                   | 11.00                      |
| Mid     | 5580               | 20.45                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5700               | 20.54                       | 0.60                         | 24.00                   | 11.00                      |
| 144     | 5720               | 20.51                       | 0.60                         | 24.00                   | 11.00                      |

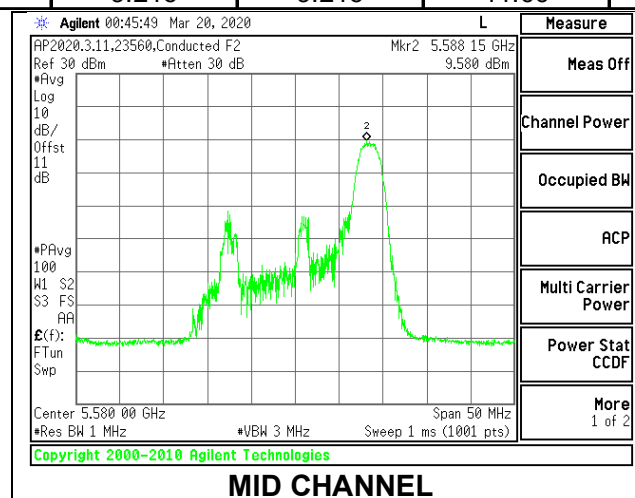
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 11.73                               | 11.73                             | 24.00                   | -12.27                  |
| Mid     | 5580               | 11.61                               | 11.61                             | 24.00                   | -12.39                  |
| High    | 5700               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| 144     | 5720               | 11.62                               | 11.62                             | 24.00                   | -12.38                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 9.811                                  | 9.811                                | 11.00                      | -1.189                |
| Mid     | 5580               | 9.580                                  | 9.580                                | 11.00                      | -1.420                |
| High    | 5700               | 9.528                                  | 9.528                                | 11.00                      | -1.472                |
| 144     | 5720               | 9.216                                  | 9.216                                | 11.00                      | -1.784                |



**1TX ANT 6 MODE (FCC): 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 21.18                       | 0.60                         | 24.00                   | 11.00                      |
| Mid     | 5580               | 21.11                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5700               | 21.02                       | 0.60                         | 24.00                   | 11.00                      |
| 144     | 5720               | 21.14                       | 0.60                         | 24.00                   | 11.00                      |

|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

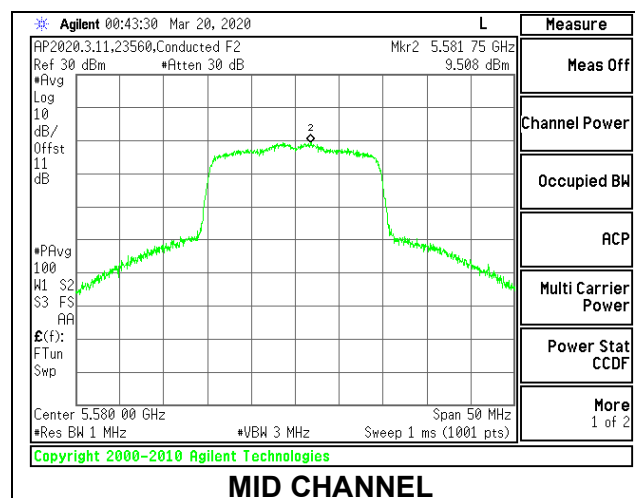
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 16.45                               | 16.45                             | 24.00                   | -7.55                   |
| Mid     | 5580               | 16.50                               | 16.50                             | 24.00                   | -7.50                   |
| High    | 5700               | 16.24                               | 16.24                             | 24.00                   | -7.76                   |
| 144     | 5720               | 16.44                               | 16.44                             | 24.00                   | -7.56                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 7.806                                  | 7.806                                | 11.00                      | -3.194                |
| Mid     | 5580               | 9.508                                  | 9.508                                | 11.00                      | -1.492                |
| High    | 5700               | 6.387                                  | 6.387                                | 11.00                      | -4.613                |
| 144     | 5720               | 9.285                                  | 9.285                                | 11.00                      | -1.715                |

NOTE: 5500/5580/5720 PSD tested at higher power



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 0**

|                       |            |
|-----------------------|------------|
| <b>Test Engineer:</b> | 12485 GA   |
| <b>Test Date:</b>     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 20.00                       | -0.20                        | 24.00                   | 11.00                      |
| Mid     | 5580               | 20.07                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5700               | 20.02                       | -0.20                        | 24.00                   | 11.00                      |
| 144     | 5720               | 20.08                       | -0.20                        | 24.00                   | 11.00                      |

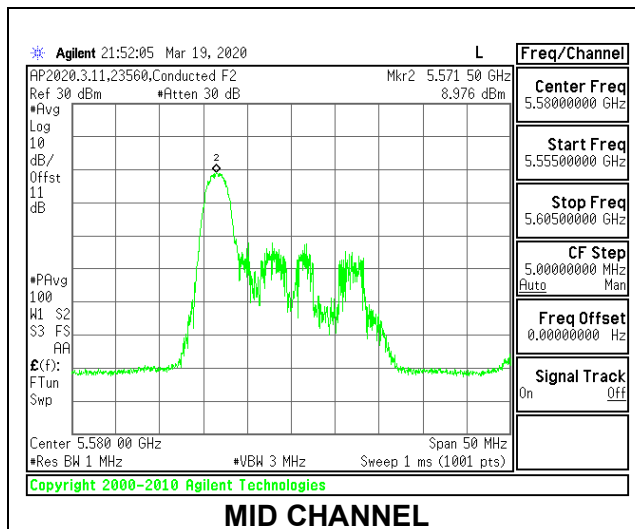
|                           |      |                                            |
|---------------------------|------|--------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations Corr'd PSD</b> |
|---------------------------|------|--------------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| Mid     | 5580               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| High    | 5700               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |
| 144     | 5720               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 9.597                                  | 9.597                                | 11.00                      | -1.403                |
| Mid     | 5580               | 8.976                                  | 8.976                                | 11.00                      | -2.024                |
| High    | 5700               | 9.796                                  | 9.796                                | 11.00                      | -1.204                |
| 144     | 5720               | 8.886                                  | 8.886                                | 11.00                      | -2.114                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 19.33                       | -0.20                        | 23.86                   | 11.00                      |
| Mid     | 5580               | 19.16                       | -0.20                        | 23.82                   | 11.00                      |
| High    | 5700               | 19.13                       | -0.20                        | 23.82                   | 11.00                      |
| 144     | 5720               | 19.41                       | -0.20                        | 23.88                   | 11.00                      |

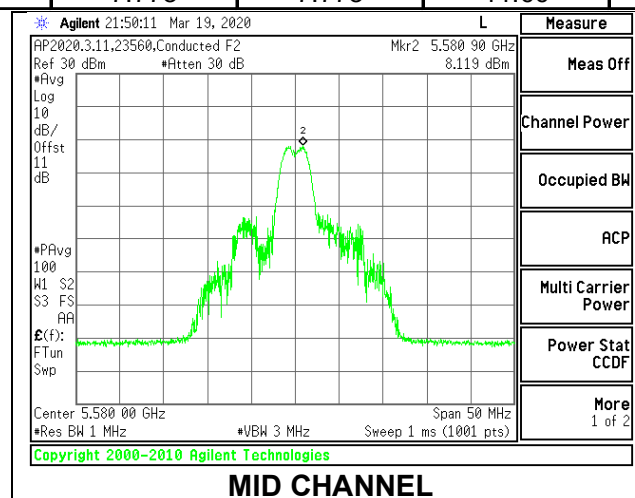
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 11.70                               | 11.70                             | 23.86                   | -12.16                  |
| Mid     | 5580               | 11.62                               | 11.62                             | 23.82                   | -12.20                  |
| High    | 5700               | 11.67                               | 11.67                             | 23.82                   | -12.15                  |
| 144     | 5720               | 11.66                               | 11.66                             | 23.88                   | -12.22                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 8.518                                  | 8.518                                | 11.00                      | -2.482                |
| Mid     | 5580               | 8.119                                  | 8.119                                | 11.00                      | -2.881                |
| High    | 5700               | 8.329                                  | 8.329                                | 11.00                      | -2.671                |
| 144     | 5720               | 7.773                                  | 7.773                                | 11.00                      | -3.227                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 20.33                       | -0.20                        | 24.00                   | 11.00                      |
| Mid     | 5580               | 20.19                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5700               | 20.42                       | -0.20                        | 24.00                   | 11.00                      |
| 144     | 5720               | 20.42                       | -0.20                        | 24.00                   | 11.00                      |

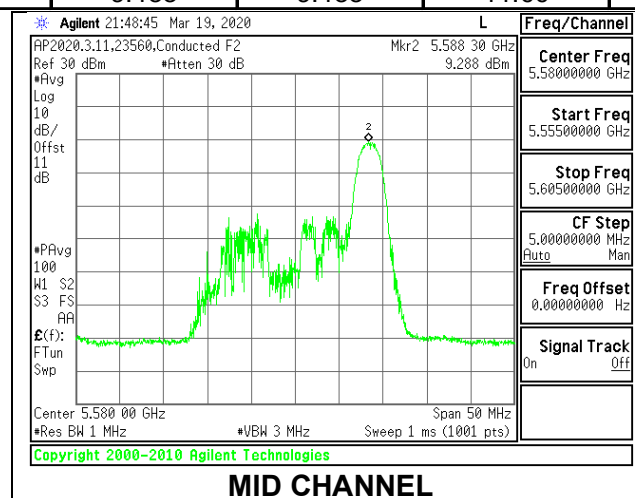
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |
| Mid     | 5580               | 11.63                               | 11.63                             | 24.00                   | -12.37                  |
| High    | 5700               | 11.69                               | 11.69                             | 24.00                   | -12.31                  |
| 144     | 5720               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 9.509                                  | 9.509                                | 11.00                      | -1.491                |
| Mid     | 5580               | 9.288                                  | 9.288                                | 11.00                      | -1.712                |
| High    | 5700               | 9.443                                  | 9.443                                | 11.00                      | -1.557                |
| 144     | 5720               | 9.133                                  | 9.133                                | 11.00                      | -1.867                |



**1TX ANT 5 MODE (FCC): 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 21.04                       | -0.20                        | 24.00                   | 11.00                      |
| Mid     | 5580               | 21.04                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5700               | 21.03                       | -0.20                        | 24.00                   | 11.00                      |
| 144     | 5720               | 21.03                       | -0.20                        | 24.00                   | 11.00                      |

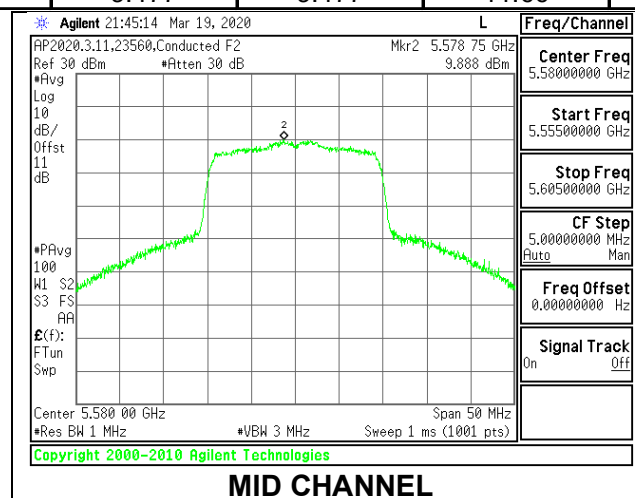
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 17.73                               | 17.73                             | 24.00                   | -6.27                   |
| Mid     | 5580               | 19.71                               | 19.71                             | 24.00                   | -4.29                   |
| High    | 5700               | 16.18                               | 16.18                             | 24.00                   | -7.82                   |
| 144     | 5720               | 19.67                               | 19.67                             | 24.00                   | -4.33                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 7.736                                  | 7.736                                | 11.00                      | -3.264                |
| Mid     | 5580               | 9.888                                  | 9.888                                | 11.00                      | -1.112                |
| High    | 5700               | 6.115                                  | 6.115                                | 11.00                      | -4.885                |
| 144     | 5720               | 9.177                                  | 9.177                                | 11.00                      | -1.823                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 19.66                       | 0.22                                      | 3.22                                    | 23.94                   | 11.00                      |
| Mid     | 5580               | 19.66                       | 0.22                                      | 3.22                                    | 23.94                   | 11.00                      |
| High    | 5700               | 19.61                       | 0.22                                      | 3.22                                    | 23.92                   | 11.00                      |
| 144     | 5720               | 19.69                       | 0.22                                      | 3.22                                    | 23.94                   | 11.00                      |

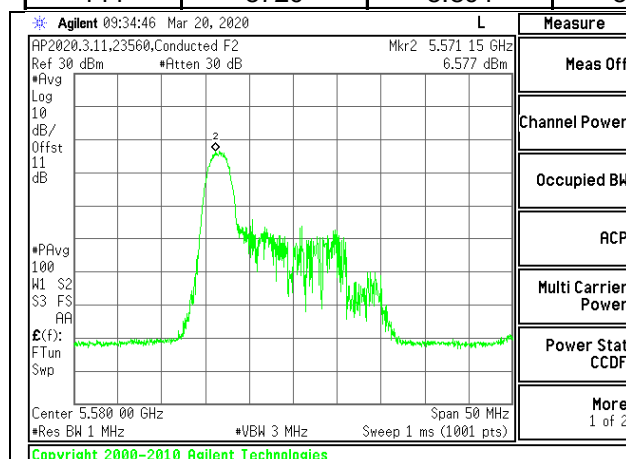
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

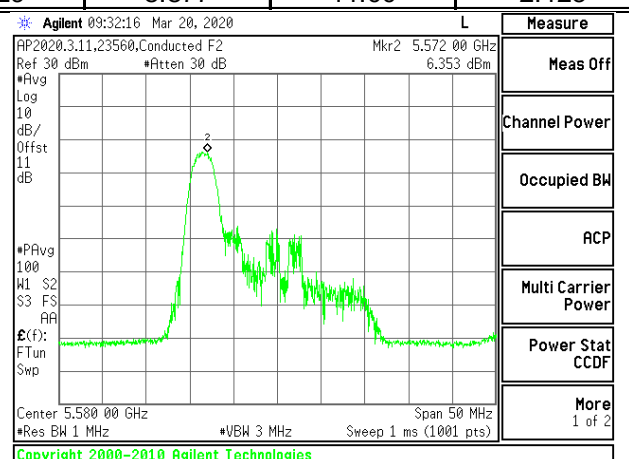
| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 8.71                                | 8.67                                | 11.70                             | 23.94                   | -12.24                  |
| Mid     | 5580               | 8.74                                | 8.66                                | 11.71                             | 23.94                   | -12.23                  |
| High    | 5700               | 8.62                                | 8.60                                | 11.62                             | 23.92                   | -12.30                  |
| 144     | 5720               | 8.63                                | 8.64                                | 11.65                             | 23.94                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 6.493                                  | 6.388                                  | 9.451                                | 11.00                      | -1.549                |
| Mid     | 5580               | 6.577                                  | 6.353                                  | 9.477                                | 11.00                      | -1.523                |
| High    | 5700               | 6.261                                  | 6.212                                  | 9.247                                | 11.00                      | -1.753                |
| 144     | 5720               | 5.804                                  | 5.929                                  | 8.877                                | 11.00                      | -2.123                |



**MID CHANNEL [ANT 6]**



**MID CHANNEL [ANT 5]**

**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 18.24                       | 0.22                                      | 3.22                                    | 23.61                   | 11.00                      |
| Mid     | 5580               | 18.40                       | 0.22                                      | 3.22                                    | 23.65                   | 11.00                      |
| High    | 5700               | 18.25                       | 0.22                                      | 3.22                                    | 23.61                   | 11.00                      |
| 144     | 5720               | 18.29                       | 0.22                                      | 3.22                                    | 23.62                   | 11.00                      |

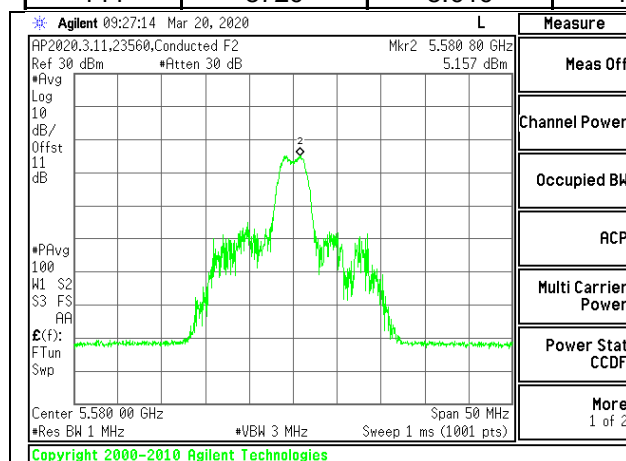
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

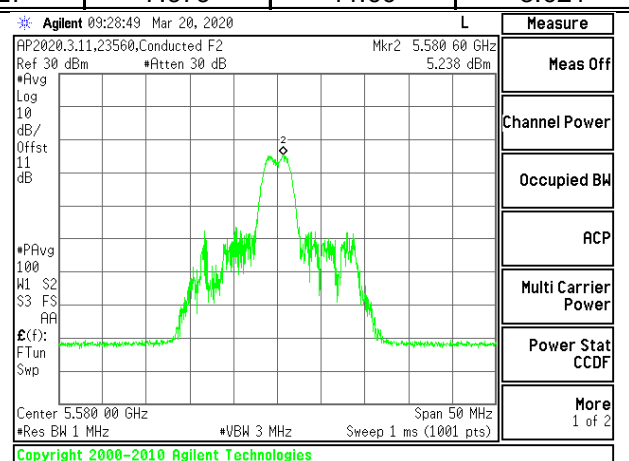
| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 8.69                                | 8.63                                | 11.67                             | 23.61                   | -11.94                  |
| Mid     | 5580               | 8.67                                | 8.60                                | 11.65                             | 23.65                   | -12.00                  |
| High    | 5700               | 8.60                                | 8.66                                | 11.64                             | 23.61                   | -11.97                  |
| 144     | 5720               | 8.64                                | 8.62                                | 11.64                             | 23.62                   | -11.98                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 5.701                                  | 5.392                                  | 8.560                                | 11.00                      | -2.440                |
| Mid     | 5580               | 5.157                                  | 5.238                                  | 8.208                                | 11.00                      | -2.792                |
| High    | 5700               | 5.258                                  | 5.557                                  | 8.420                                | 11.00                      | -2.580                |
| 144     | 5720               | 5.010                                  | 4.927                                  | 7.979                                | 11.00                      | -3.021                |



**MID CHANNEL [ANT 6]**



**MID CHANNEL [ANT 5]**

**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 19.83                       | 1.00                                      | 1.00                                    | 23.97                   | 11.00                      |
| Mid     | 5580               | 19.76                       | 1.00                                      | 1.00                                    | 23.96                   | 11.00                      |
| High    | 5700               | 19.84                       | 1.00                                      | 1.00                                    | 23.98                   | 11.00                      |
| 144     | 5720               | 19.59                       | 1.00                                      | 1.00                                    | 23.92                   | 11.00                      |

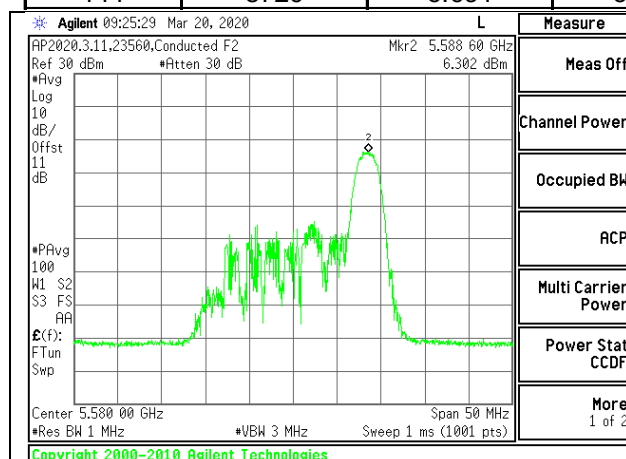
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

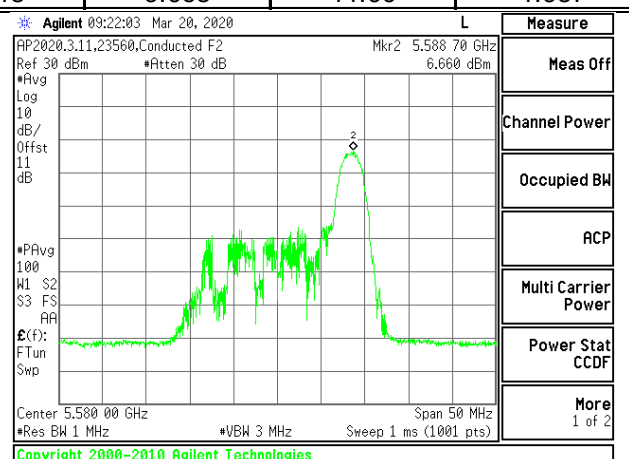
| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 8.68                                | 8.69                                | 11.70                             | 23.97                   | -12.28                  |
| Mid     | 5580               | 8.71                                | 8.71                                | 11.72                             | 23.96                   | -12.24                  |
| High    | 5700               | 8.64                                | 8.73                                | 11.70                             | 23.98                   | -12.28                  |
| 144     | 5720               | 8.69                                | 8.67                                | 11.69                             | 23.92                   | -12.23                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 6.533                                  | 6.317                                  | 9.437                                | 11.00                      | -1.563                |
| Mid     | 5580               | 6.302                                  | 6.660                                  | 9.495                                | 11.00                      | -1.505                |
| High    | 5700               | 6.451                                  | 6.664                                  | 9.569                                | 11.00                      | -1.431                |
| 144     | 5720               | 6.091                                  | 6.015                                  | 9.063                                | 11.00                      | -1.937                |



**MID CHANNEL [ANT 6]**



**MID CHANNEL [ANT 5]**

**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5500               | 20.83                       | 1.00                                      | 1.00                                    | 24.00                   | 11.00                      |
| Mid     | 5580               | 20.92                       | 1.00                                      | 1.00                                    | 24.00                   | 11.00                      |
| High    | 5700               | 20.73                       | 1.00                                      | 1.00                                    | 24.00                   | 11.00                      |
| 144     | 5720               | 20.80                       | 1.00                                      | 1.00                                    | 24.00                   | 11.00                      |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

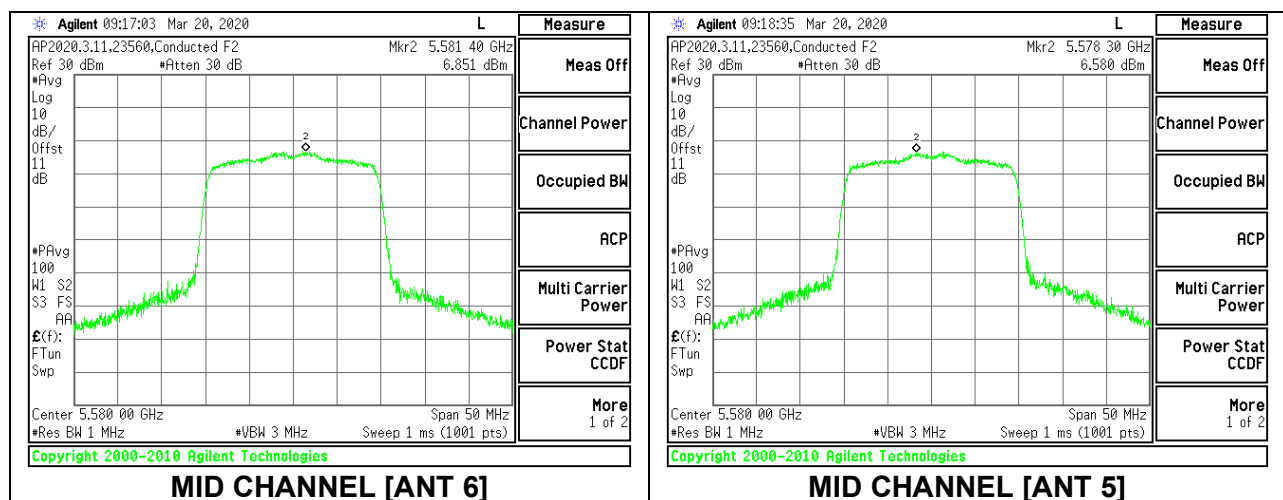
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 16.46                               | 16.69                               | 19.59                             | 24.00                   | -4.41                   |
| Mid     | 5580               | 16.45                               | 16.66                               | 19.57                             | 24.00                   | -4.43                   |
| High    | 5700               | 15.63                               | 15.71                               | 18.68                             | 24.00                   | -5.32                   |
| 144     | 5720               | 16.49                               | 16.67                               | 19.59                             | 24.00                   | -4.41                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5500               | 6.576                                  | 6.692                                  | 9.645                                | 11.00                      | -1.355                |
| Mid     | 5580               | 6.851                                  | 6.580                                  | 9.728                                | 11.00                      | -1.272                |
| High    | 5700               | 5.623                                  | 5.585                                  | 8.614                                | 11.00                      | -2.386                |
| 144     | 5720               | 5.998                                  | 5.933                                  | 8.976                                | 11.00                      | -2.024                |

NOTE: 5500/5580/5720 PSD tested at higher power





### 9.4.17. 802.11ax HE40 MODE IN THE 5.6 GHz BAND

#### 1TX ANT 6 MODE (FCC): 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 20.65                       | 0.60                         | 24.00                   | 11.00                      |
| Mid     | 5550               | 20.18                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5670               | 20.38                       | 0.60                         | 24.00                   | 11.00                      |
| 142     | 5710               | 20.83                       | 0.60                         | 24.00                   | 11.00                      |

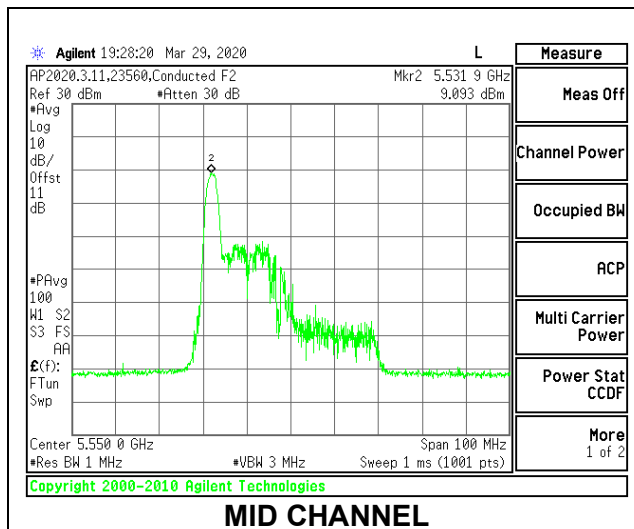
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| Mid     | 5550               | 11.66                               | 11.66                             | 24.00                   | -12.34                  |
| High    | 5670               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |
| 142     | 5710               | 11.69                               | 11.69                             | 24.00                   | -12.31                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 9.162                                  | 9.162                                | 11.00                      | -1.838                |
| Mid     | 5550               | 9.093                                  | 9.093                                | 11.00                      | -1.907                |
| High    | 5670               | 9.490                                  | 9.490                                | 11.00                      | -1.510                |
| 142     | 5710               | 8.452                                  | 8.452                                | 11.00                      | -2.548                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 23.48                       | 0.60                         | 24.00                   | 11.00                      |
| Mid     | 5550               | 23.24                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5670               | 23.76                       | 0.60                         | 24.00                   | 11.00                      |
| 142     | 5710               | 23.00                       | 0.60                         | 24.00                   | 11.00                      |

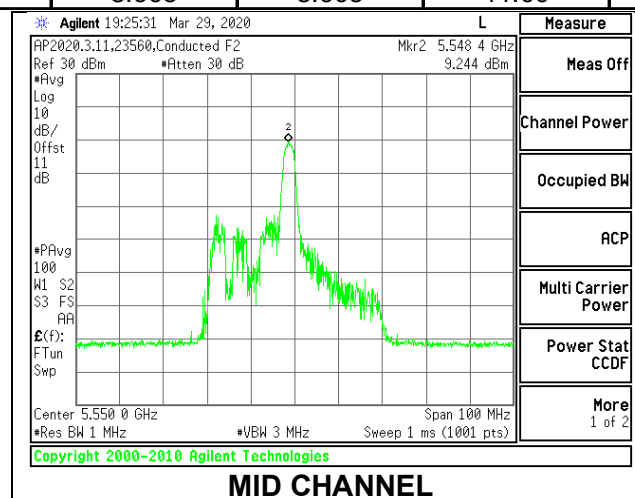
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 11.72                               | 11.72                             | 24.00                   | -12.28                  |
| Mid     | 5550               | 11.67                               | 11.67                             | 24.00                   | -12.33                  |
| High    | 5670               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| 142     | 5710               | 11.63                               | 11.63                             | 24.00                   | -12.37                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 9.388                                  | 9.388                                | 11.00                      | -1.612                |
| Mid     | 5550               | 9.244                                  | 9.244                                | 11.00                      | -1.756                |
| High    | 5670               | 9.344                                  | 9.344                                | 11.00                      | -1.656                |
| 142     | 5710               | 8.903                                  | 8.903                                | 11.00                      | -2.097                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 20.95                       | 0.60                         | 24.00                   | 11.00                      |
| Mid     | 5550               | 20.13                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5670               | 20.21                       | 0.60                         | 24.00                   | 11.00                      |
| 142     | 5710               | 20.24                       | 0.60                         | 24.00                   | 11.00                      |

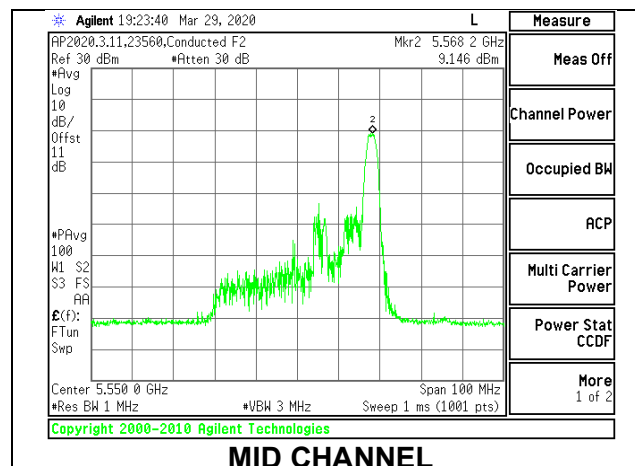
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 11.74                               | 11.74                             | 24.00                   | -12.26                  |
| Mid     | 5550               | 11.67                               | 11.67                             | 24.00                   | -12.33                  |
| High    | 5670               | 11.69                               | 11.69                             | 24.00                   | -12.31                  |
| 142     | 5710               | 11.63                               | 11.63                             | 24.00                   | -12.37                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 9.626                                  | 9.626                                | 11.00                      | -1.374                |
| Mid     | 5550               | 9.146                                  | 9.146                                | 11.00                      | -1.854                |
| High    | 5670               | 9.152                                  | 9.152                                | 11.00                      | -1.848                |
| 142     | 5710               | 8.683                                  | 8.683                                | 11.00                      | -2.317                |



**1TX ANT 6 MODE (FCC): 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 39.95                       | 0.60                         | 24.00                   | 11.00                      |
| Mid     | 5550               | 39.68                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5670               | 39.85                       | 0.60                         | 24.00                   | 11.00                      |
| 142     | 5710               | 39.74                       | 0.60                         | 24.00                   | 11.00                      |

|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

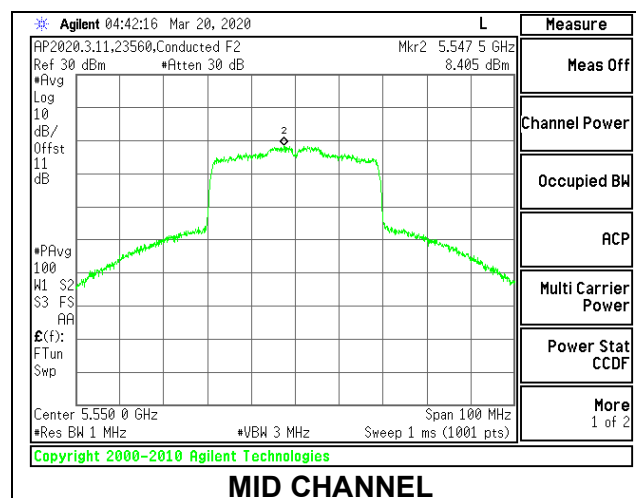
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 15.53                               | 15.53                             | 24.00                   | -8.47                   |
| Mid     | 5550               | 16.50                               | 16.50                             | 24.00                   | -7.50                   |
| High    | 5670               | 16.45                               | 16.45                             | 24.00                   | -7.55                   |
| 142     | 5710               | 16.47                               | 16.47                             | 24.00                   | -7.53                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 0.603                                  | 0.603                                | 11.00                      | -10.397               |
| Mid     | 5550               | 8.405                                  | 8.405                                | 11.00                      | -2.595                |
| High    | 5670               | 4.264                                  | 4.264                                | 11.00                      | -6.736                |
| 142     | 5710               | 7.788                                  | 7.788                                | 11.00                      | -3.212                |

NOTE: 5550/5670/5710 PSD tested at higher power



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 20.45                       | -0.20                        | 24.00                   | 11.00                      |
| Mid     | 5550               | 20.51                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5670               | 20.23                       | -0.20                        | 24.00                   | 11.00                      |
| 142     | 5710               | 20.86                       | -0.20                        | 24.00                   | 11.00                      |

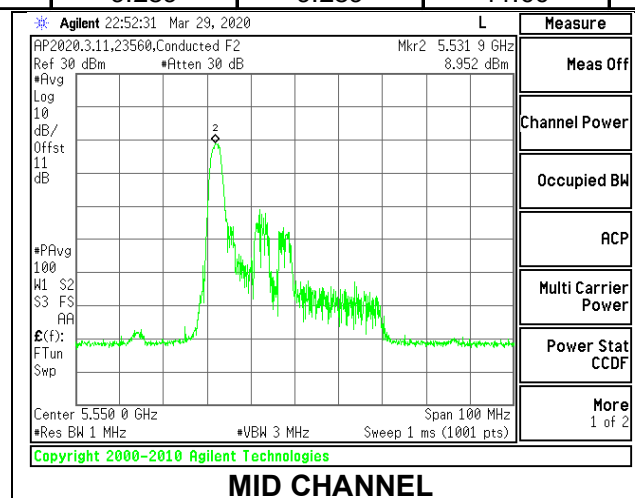
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 11.72                               | 11.72                             | 24.00                   | -12.28                  |
| Mid     | 5550               | 11.62                               | 11.62                             | 24.00                   | -12.38                  |
| High    | 5670               | 11.67                               | 11.67                             | 24.00                   | -12.33                  |
| 142     | 5710               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 9.423                                  | 9.423                                | 11.00                      | -1.577                |
| Mid     | 5550               | 8.952                                  | 8.952                                | 11.00                      | -2.048                |
| High    | 5670               | 9.263                                  | 9.263                                | 11.00                      | -1.737                |
| 142     | 5710               | 9.289                                  | 9.289                                | 11.00                      | -1.711                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 23.41                       | -0.20                        | 24.00                   | 11.00                      |
| Mid     | 5550               | 23.69                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5670               | 23.56                       | -0.20                        | 24.00                   | 11.00                      |
| 142     | 5710               | 23.09                       | -0.20                        | 24.00                   | 11.00                      |

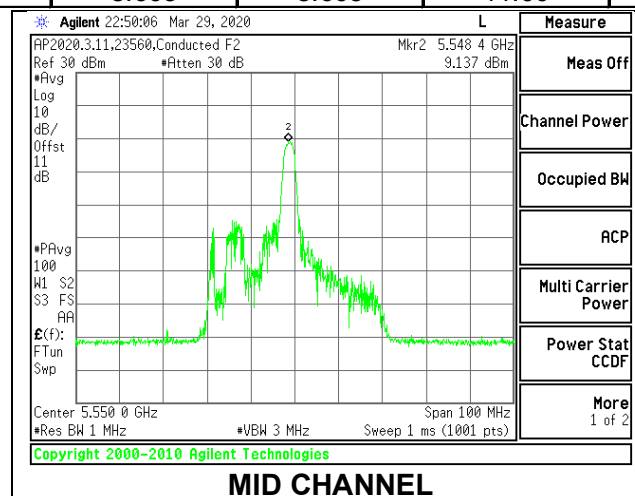
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| Mid     | 5550               | 11.63                               | 11.63                             | 24.00                   | -12.37                  |
| High    | 5670               | 11.65                               | 11.65                             | 24.00                   | -12.35                  |
| 142     | 5710               | 11.65                               | 11.65                             | 24.00                   | -12.35                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 9.459                                  | 9.459                                | 11.00                      | -1.541                |
| Mid     | 5550               | 9.137                                  | 9.137                                | 11.00                      | -1.863                |
| High    | 5670               | 9.309                                  | 9.309                                | 11.00                      | -1.691                |
| 142     | 5710               | 8.603                                  | 8.603                                | 11.00                      | -2.397                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 20.56                       | -0.20                        | 24.00                   | 11.00                      |
| Mid     | 5550               | 20.03                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5670               | 20.93                       | -0.20                        | 24.00                   | 11.00                      |
| 142     | 5710               | 20.70                       | -0.20                        | 24.00                   | 11.00                      |

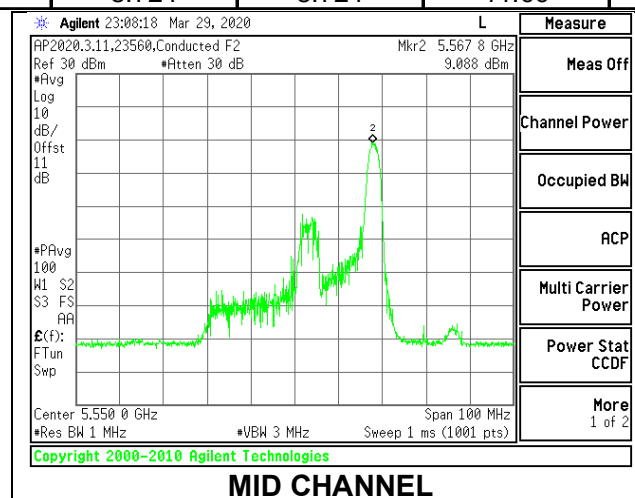
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 11.71                               | 11.71                             | 24.00                   | -12.29                  |
| Mid     | 5550               | 11.66                               | 11.66                             | 24.00                   | -12.34                  |
| High    | 5670               | 11.74                               | 11.74                             | 24.00                   | -12.26                  |
| 142     | 5710               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 9.362                                  | 9.362                                | 11.00                      | -1.638                |
| Mid     | 5550               | 9.088                                  | 9.088                                | 11.00                      | -1.912                |
| High    | 5670               | 9.477                                  | 9.477                                | 11.00                      | -1.523                |
| 142     | 5710               | 8.724                                  | 8.724                                | 11.00                      | -2.276                |



**1TX ANT 5 MODE (FCC): 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 39.88                       | -0.20                        | 24.00                   | 11.00                      |
| Mid     | 5550               | 39.81                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5670               | 39.87                       | -0.20                        | 24.00                   | 11.00                      |
| 142     | 5710               | 39.96                       | -0.20                        | 24.00                   | 11.00                      |

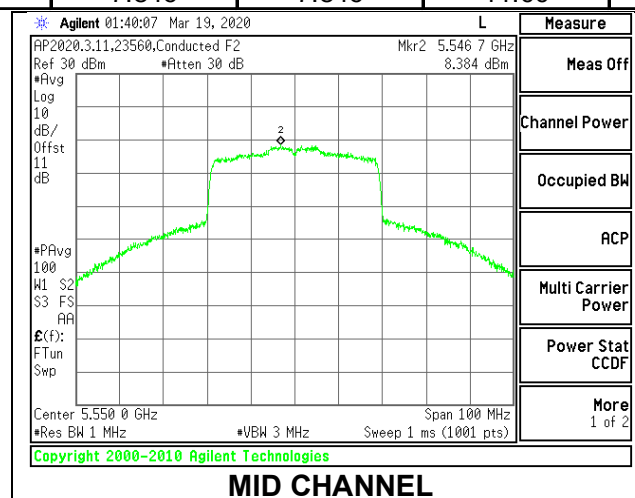
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 15.71                               | 15.71                             | 24.00                   | -8.29                   |
| Mid     | 5550               | 20.71                               | 20.71                             | 24.00                   | -3.29                   |
| High    | 5670               | 18.70                               | 18.70                             | 24.00                   | -5.30                   |
| 142     | 5710               | 20.75                               | 20.75                             | 24.00                   | -3.25                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 0.941                                  | 0.941                                | 11.00                      | -10.059               |
| Mid     | 5550               | 8.384                                  | 8.384                                | 11.00                      | -2.616                |
| High    | 5670               | 4.356                                  | 4.356                                | 11.00                      | -6.644                |
| 142     | 5710               | 7.846                                  | 7.846                                | 11.00                      | -3.154                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 19.14                       | 0.22                                      | 3.22                                    | 23.82                   | 11.00                      |
| Mid     | 5550               | 20.06                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| High    | 5670               | 19.77                       | 0.22                                      | 3.22                                    | 23.96                   | 11.00                      |
| 142     | 5710               | 19.78                       | 0.22                                      | 3.22                                    | 23.96                   | 11.00                      |

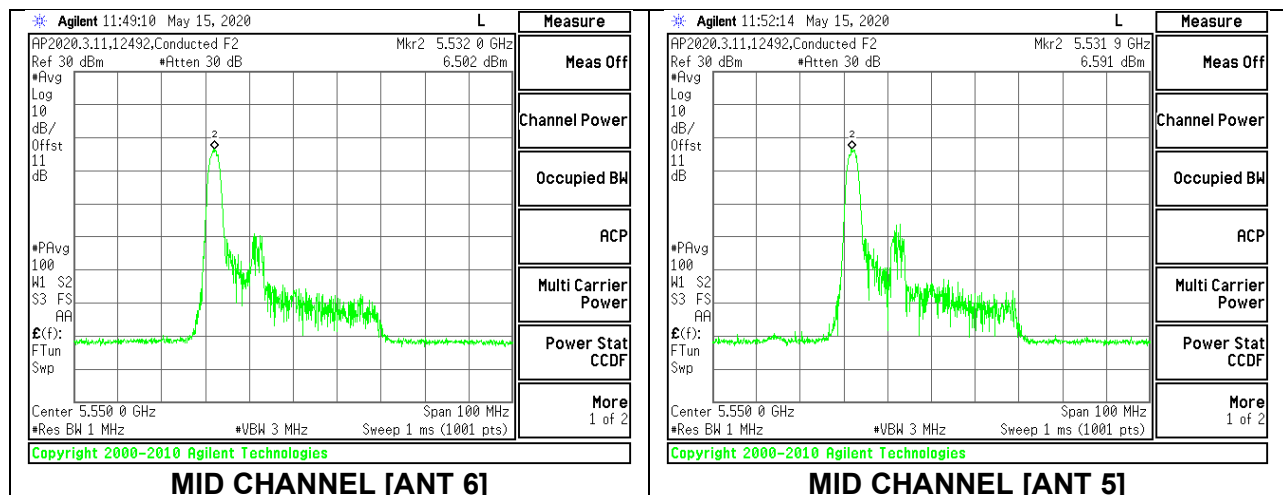
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 8.65                                | 8.69                                | 11.68                             | 23.82                   | -12.14                  |
| Mid     | 5550               | 8.68                                | 8.72                                | 11.71                             | 24.00                   | -12.29                  |
| High    | 5670               | 8.74                                | 8.68                                | 11.72                             | 23.96                   | -12.24                  |
| 142     | 5710               | 8.62                                | 8.66                                | 11.65                             | 23.96                   | -12.31                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 6.122                                  | 6.211                                  | 9.177                                | 11.00                      | -1.823                |
| Mid     | 5550               | 6.502                                  | 6.591                                  | 9.557                                | 11.00                      | -1.443                |
| High    | 5670               | 6.596                                  | 6.507                                  | 9.562                                | 11.00                      | -1.438                |
| 142     | 5710               | 6.054                                  | 6.136                                  | 9.105                                | 11.00                      | -1.895                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 23.76                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| Mid     | 5550               | 23.16                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| High    | 5670               | 23.30                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| 142     | 5710               | 23.41                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |

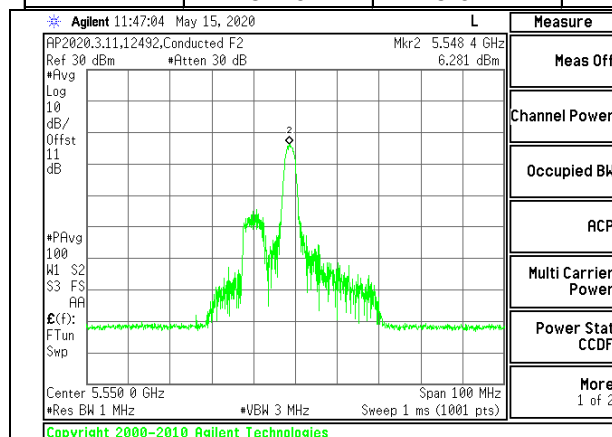
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

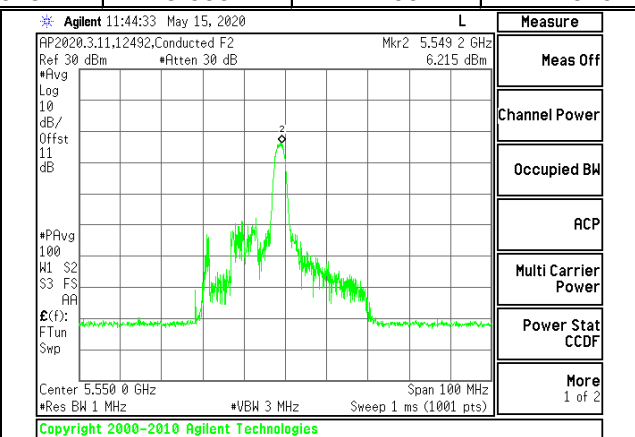
| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 8.70                                | 8.61                                | 11.67                             | 24.00                   | -12.33                  |
| Mid     | 5550               | 8.68                                | 8.64                                | 11.67                             | 24.00                   | -12.33                  |
| High    | 5670               | 8.73                                | 8.60                                | 11.68                             | 24.00                   | -12.32                  |
| 142     | 5710               | 8.63                                | 8.62                                | 11.64                             | 24.00                   | -12.36                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 6.292                                  | 6.155                                  | 9.234                                | 11.00                      | -1.766                |
| Mid     | 5550               | 6.281                                  | 6.215                                  | 9.258                                | 11.00                      | -1.742                |
| High    | 5670               | 6.406                                  | 6.122                                  | 9.277                                | 11.00                      | -1.723                |
| 142     | 5710               | 5.621                                  | 5.618                                  | 8.630                                | 11.00                      | -2.370                |



**MID CHANNEL [ANT 6]**



**MID CHANNEL [ANT 5]**

**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 19.36                       | 0.22                                      | 3.22                                    | 23.87                   | 11.00                      |
| Mid     | 5550               | 19.30                       | 0.22                                      | 3.22                                    | 23.86                   | 11.00                      |
| High    | 5670               | 19.33                       | 0.22                                      | 3.22                                    | 23.86                   | 11.00                      |
| 142     | 5710               | 19.49                       | 0.22                                      | 3.22                                    | 23.90                   | 11.00                      |

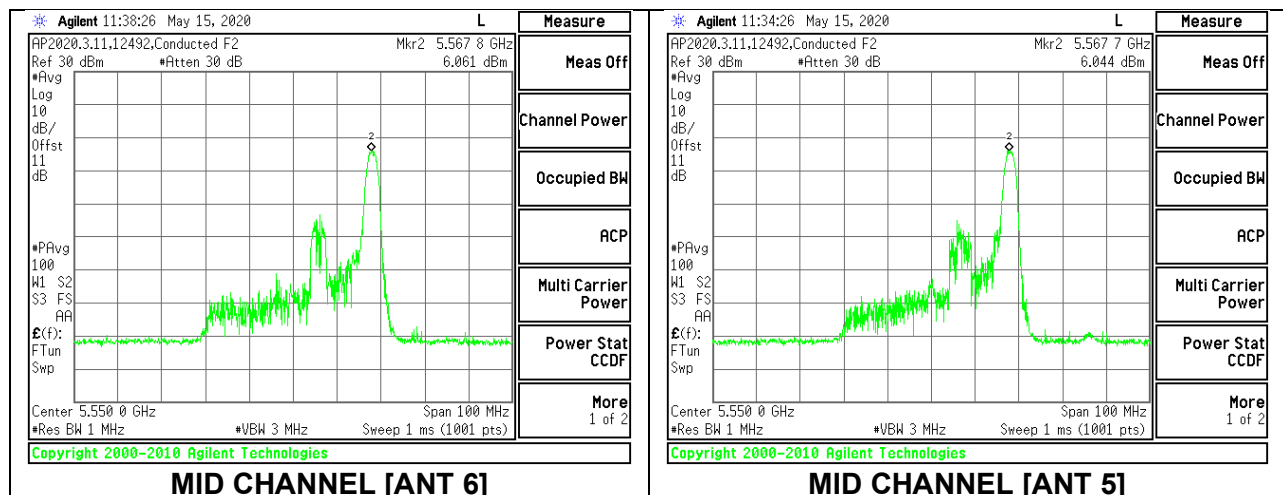
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 8.66                                | 8.71                                | 11.70                             | 23.87                   | -12.17                  |
| Mid     | 5550               | 8.64                                | 8.63                                | 11.65                             | 23.86                   | -12.21                  |
| High    | 5670               | 8.69                                | 8.60                                | 11.66                             | 23.86                   | -12.21                  |
| 142     | 5710               | 8.68                                | 8.67                                | 11.69                             | 23.90                   | -12.21                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 6.129                                  | 6.347                                  | 9.250                                | 11.00                      | -1.750                |
| Mid     | 5550               | 6.061                                  | 6.044                                  | 9.063                                | 11.00                      | -1.937                |
| High    | 5670               | 6.271                                  | 5.996                                  | 9.146                                | 11.00                      | -1.854                |
| 142     | 5710               | 5.766                                  | 5.723                                  | 8.755                                | 11.00                      | -2.245                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5510               | 39.79                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| Mid     | 5550               | 39.55                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| High    | 5670               | 39.65                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| 142     | 5710               | 39.80                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

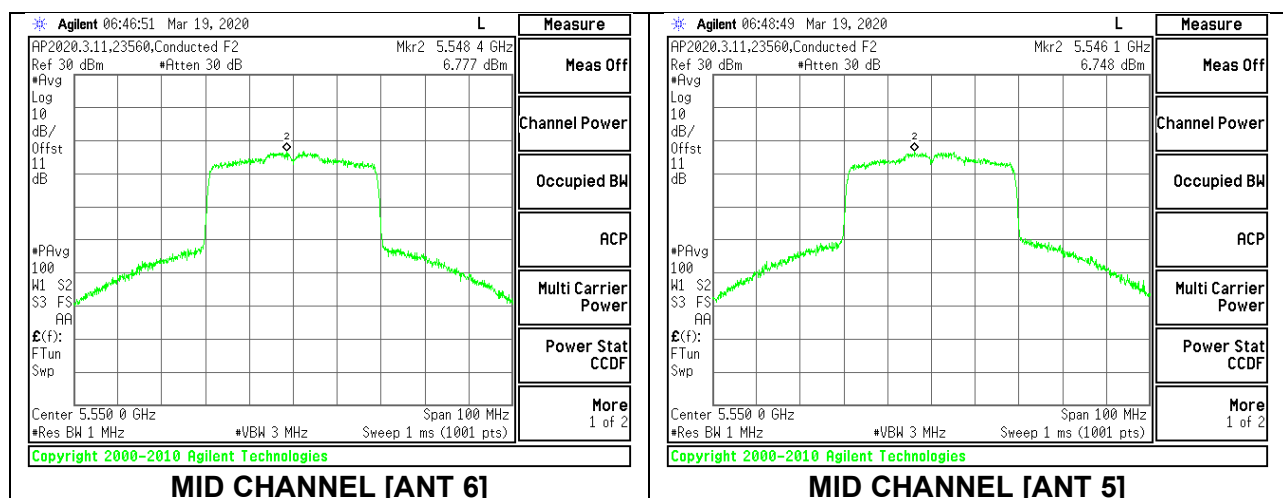
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 15.24                               | 15.22                               | 18.24                             | 24.00                   | -5.76                   |
| Mid     | 5550               | 16.51                               | 19.70                               | 21.40                             | 24.00                   | -2.60                   |
| High    | 5670               | 16.44                               | 18.17                               | 20.40                             | 24.00                   | -3.60                   |
| 142     | 5710               | 16.47                               | 19.63                               | 21.34                             | 24.00                   | -2.66                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5510               | 0.515                                  | 0.212                                  | 3.376                                | 11.00                      | -7.624                |
| Mid     | 5550               | 6.777                                  | 6.748                                  | 9.773                                | 11.00                      | -1.227                |
| High    | 5670               | 3.602                                  | 3.789                                  | 6.707                                | 11.00                      | -4.293                |
| 142     | 5710               | 6.351                                  | 6.281                                  | 9.326                                | 11.00                      | -1.674                |

NOTE: Antenna 6 5550/5670/5710 PSD tested at higher power



### 9.4.18. 802.11ax HE80 MODE IN THE 5.6 GHz BAND

#### 1TX ANT 6 MODE (FCC): 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 19.64                       | 0.60                         | 23.93                   | 11.00                      |
| High    | 5610               | 19.83                       | 0.60                         | 23.97                   | 11.00                      |
| 138     | 5690               | 19.37                       | 0.60                         | 23.87                   | 11.00                      |

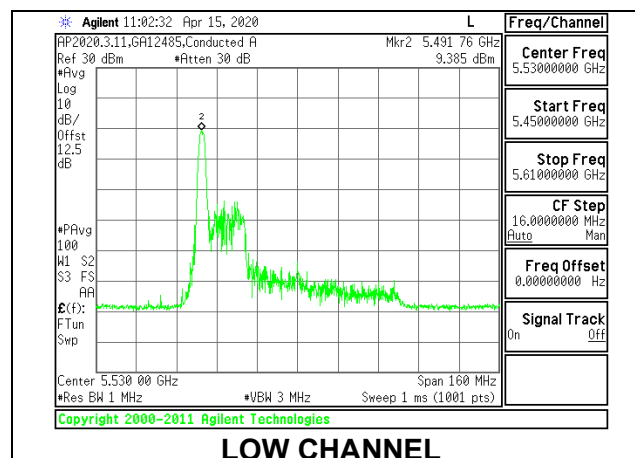
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 11.68                               | 11.68                             | 23.93                   | -12.25                  |
| High    | 5610               | 11.62                               | 11.62                             | 23.97                   | -12.35                  |
| 138     | 5690               | 11.60                               | 11.60                             | 23.87                   | -12.27                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 9.385                                  | 9.385                                | 11.00                      | -1.615                |
| High    | 5610               | 8.605                                  | 8.605                                | 11.00                      | -2.395                |
| 138     | 5690               | 8.560                                  | 8.560                                | 11.00                      | -2.440                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 40.85                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5610               | 40.99                       | 0.60                         | 24.00                   | 11.00                      |
| 138     | 5690               | 39.97                       | 0.60                         | 24.00                   | 11.00                      |

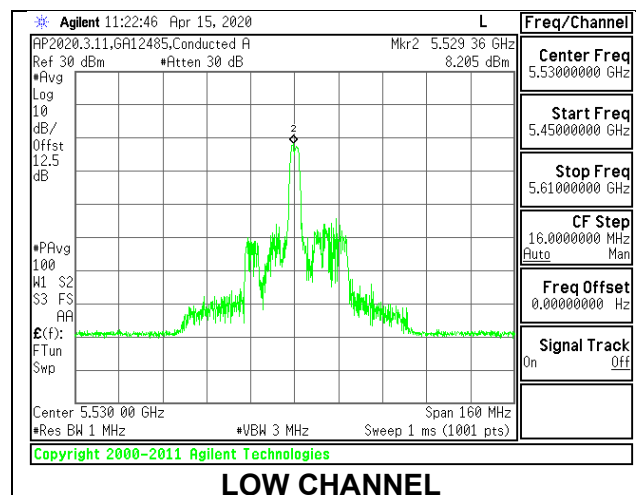
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| High    | 5610               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| 138     | 5690               | 11.63                               | 11.63                             | 24.00                   | -12.37                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 8.205                                  | 8.205                                | 11.00                      | -2.795                |
| High    | 5610               | 8.289                                  | 8.289                                | 11.00                      | -2.711                |
| 138     | 5690               | 7.898                                  | 7.898                                | 11.00                      | -3.102                |



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 20.27                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5610               | 20.31                       | 0.60                         | 24.00                   | 11.00                      |
| 138     | 5690               | 20.16                       | 0.60                         | 24.00                   | 11.00                      |

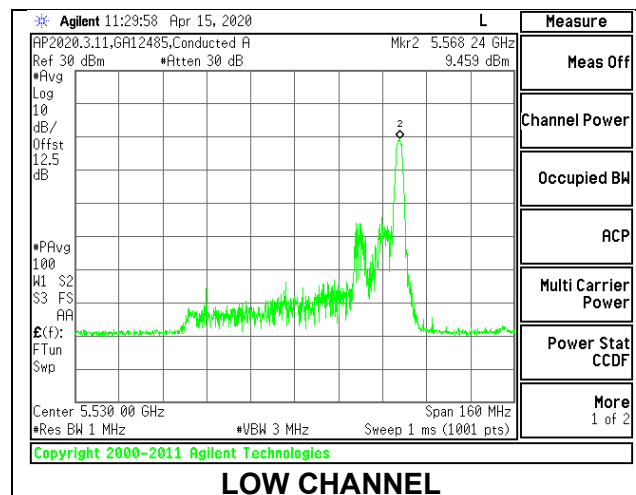
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 11.72                               | 11.72                             | 24.00                   | -12.28                  |
| High    | 5610               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| 138     | 5690               | 11.65                               | 11.65                             | 24.00                   | -12.35                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 9.459                                  | 9.459                                | 11.00                      | -1.541                |
| High    | 5610               | 9.308                                  | 9.308                                | 11.00                      | -1.692                |
| 138     | 5690               | 9.257                                  | 9.257                                | 11.00                      | -1.743                |



**1TX ANT 6 MODE (FCC): 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 80.78                       | 0.60                         | 24.00                   | 11.00                      |
| High    | 5610               | 80.95                       | 0.60                         | 24.00                   | 11.00                      |
| 138     | 5690               | 80.52                       | 0.60                         | 24.00                   | 11.00                      |

|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

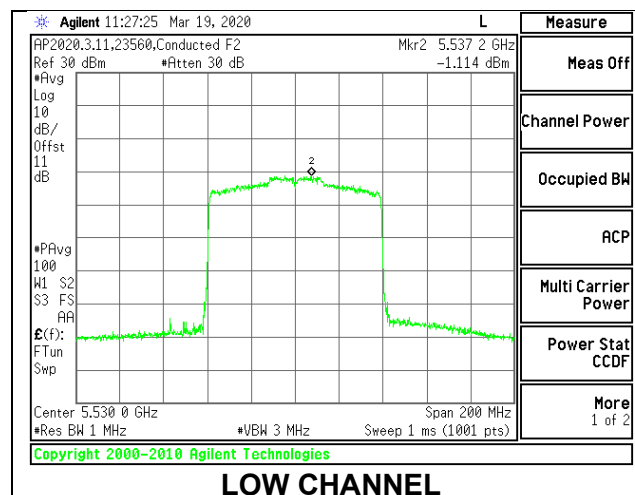
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 14.72                               | 14.72                             | 24.00                   | -9.28                   |
| High    | 5610               | 16.49                               | 16.49                             | 24.00                   | -7.51                   |
| 138     | 5690               | 16.47                               | 16.47                             | 24.00                   | -7.53                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | -1.114                                 | -1.114                               | 11.00                      | -12.114               |
| High    | 5610               | 5.579                                  | 5.579                                | 11.00                      | -5.421                |
| 138     | 5690               | 4.962                                  | 4.962                                | 11.00                      | -6.038                |

NOTE: 5610/5690 PSD tested at higher power



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 19.66                       | -0.20                        | 23.94                   | 11.00                      |
| High    | 5610               | 19.51                       | -0.20                        | 23.90                   | 11.00                      |
| 138     | 5690               | 19.37                       | -0.20                        | 23.87                   | 11.00                      |

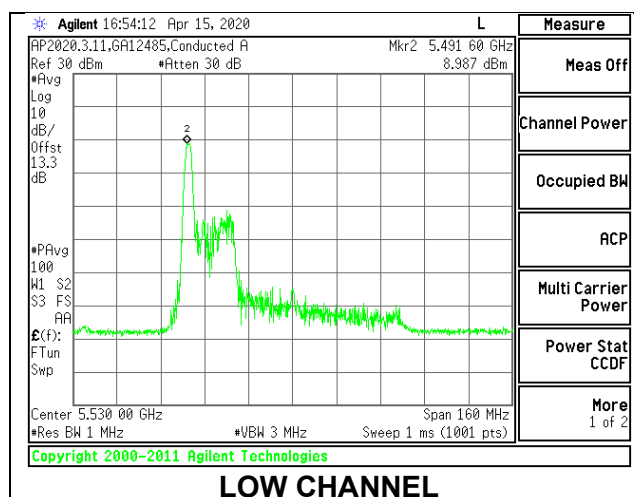
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 11.71                               | 11.71                             | 23.94                   | -12.23                  |
| High    | 5610               | 11.69                               | 11.69                             | 23.90                   | -12.21                  |
| 138     | 5690               | 11.67                               | 11.67                             | 23.87                   | -12.20                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 8.987                                  | 8.987                                | 11.00                      | -2.013                |
| High    | 5610               | 8.866                                  | 8.866                                | 11.00                      | -2.134                |
| 138     | 5690               | 8.247                                  | 8.247                                | 11.00                      | -2.753                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 40.35                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5610               | 40.03                       | -0.20                        | 24.00                   | 11.00                      |
| 138     | 5690               | 40.03                       | -0.20                        | 24.00                   | 11.00                      |

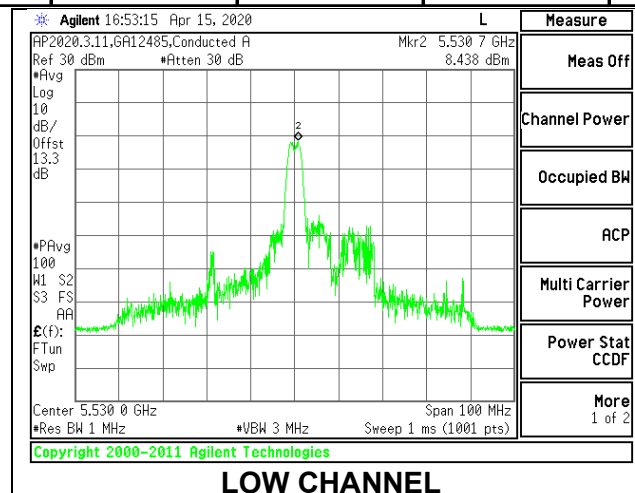
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 11.70                               | 11.70                             | 24.00                   | -12.30                  |
| High    | 5610               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |
| 138     | 5690               | 11.62                               | 11.62                             | 24.00                   | -12.38                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 8.438                                  | 8.438                                | 11.00                      | -2.562                |
| High    | 5610               | 8.257                                  | 8.257                                | 11.00                      | -2.743                |
| 138     | 5690               | 7.663                                  | 7.663                                | 11.00                      | -3.337                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 20.44                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5610               | 20.04                       | -0.20                        | 24.00                   | 11.00                      |
| 138     | 5690               | 20.72                       | -0.20                        | 24.00                   | 11.00                      |

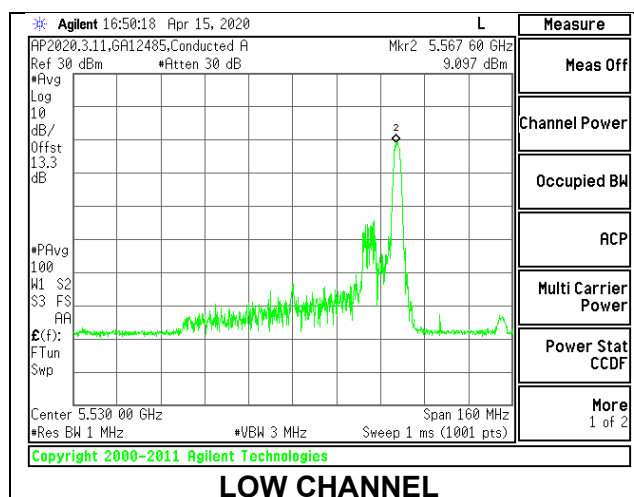
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 11.66                               | 11.66                             | 24.00                   | -12.34                  |
| High    | 5610               | 11.61                               | 11.61                             | 24.00                   | -12.39                  |
| 138     | 5690               | 11.68                               | 11.68                             | 24.00                   | -12.32                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 9.097                                  | 9.097                                | 11.00                      | -1.903                |
| High    | 5610               | 9.039                                  | 9.039                                | 11.00                      | -1.961                |
| 138     | 5690               | 9.103                                  | 9.103                                | 11.00                      | -1.897                |



**1TX ANT 5 MODE (FCC): 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 80.75                       | -0.20                        | 24.00                   | 11.00                      |
| High    | 5610               | 80.66                       | -0.20                        | 24.00                   | 11.00                      |
| 138     | 5690               | 80.71                       | -0.20                        | 24.00                   | 11.00                      |

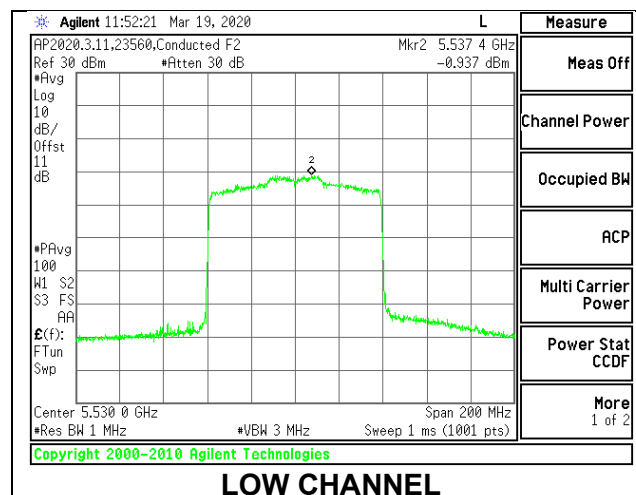
|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations Corr'd PSD |
|--------------------|------|-------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 14.73                               | 14.73                             | 24.00                   | -9.27                   |
| High    | 5610               | 21.23                               | 21.23                             | 24.00                   | -2.77                   |
| 138     | 5690               | 21.17                               | 21.17                             | 24.00                   | -2.83                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | -0.937                                 | -0.937                               | 11.00                      | -11.937               |
| High    | 5610               | 5.282                                  | 5.282                                | 11.00                      | -5.718                |
| 138     | 5690               | 4.782                                  | 4.782                                | 11.00                      | -6.218                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 19.48                       | 0.22                                      | 3.22                                    | 23.90                   | 11.00                      |
| High    | 5610               | 19.64                       | 0.22                                      | 3.22                                    | 23.93                   | 11.00                      |
| 138     | 5690               | 19.38                       | 0.22                                      | 3.22                                    | 23.87                   | 11.00                      |

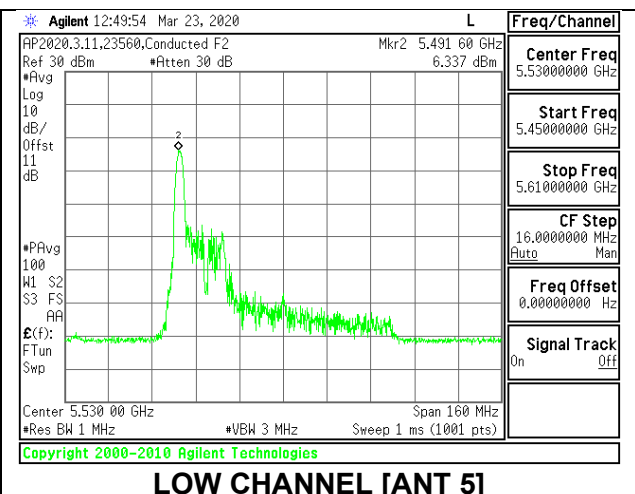
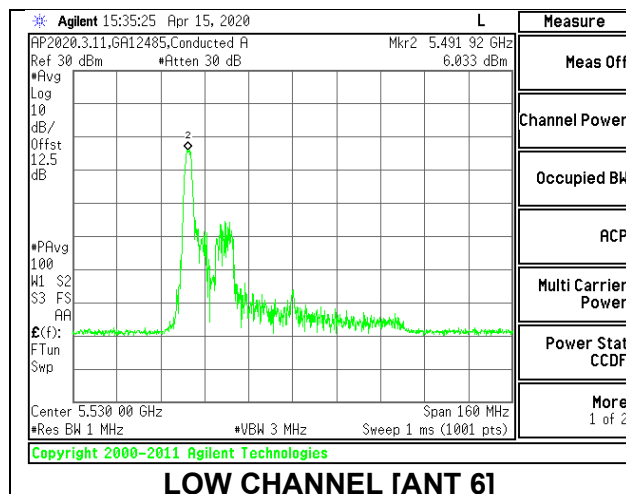
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 8.67                                | 8.71                                | 11.70                             | 23.90                   | -12.20                  |
| High    | 5610               | 8.70                                | 8.68                                | 11.70                             | 23.93                   | -12.23                  |
| 138     | 5690               | 8.61                                | 8.63                                | 11.63                             | 23.87                   | -12.24                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 6.033                                  | 6.337                                  | 9.198                                | 11.00                      | -1.802                |
| High    | 5610               | 6.294                                  | 6.169                                  | 9.242                                | 11.00                      | -1.758                |
| 138     | 5690               | 5.619                                  | 5.758                                  | 8.699                                | 11.00                      | -2.301                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 38.75                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| High    | 5610               | 38.73                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| 138     | 5690               | 38.58                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |

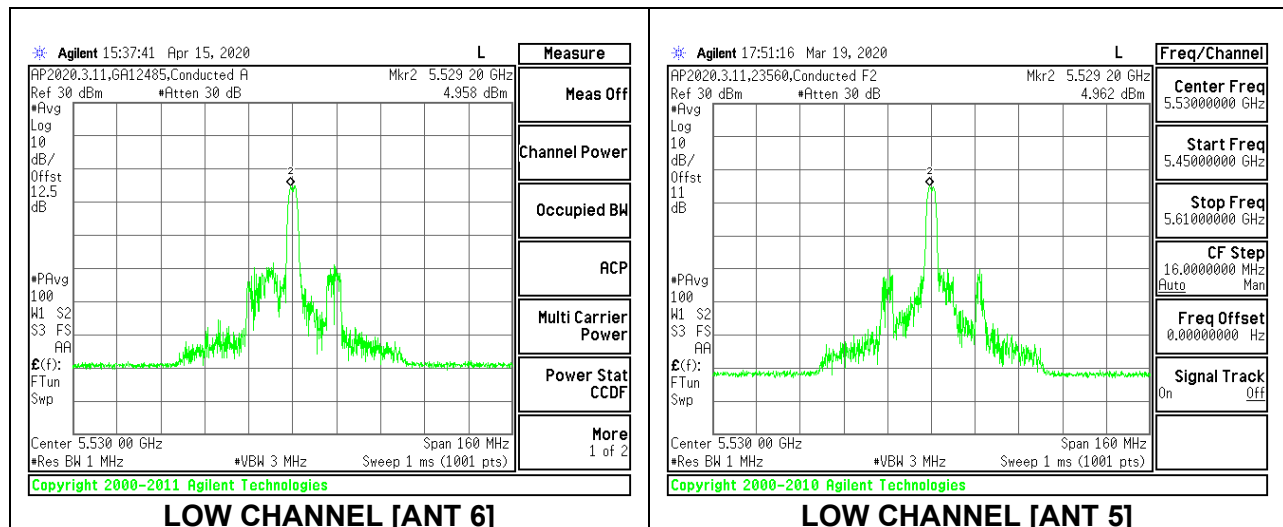
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 8.69                                | 8.61                                | 11.66                             | 24.00                   | -12.34                  |
| High    | 5610               | 8.68                                | 8.58                                | 11.64                             | 24.00                   | -12.36                  |
| 138     | 5690               | 8.63                                | 8.65                                | 11.65                             | 24.00                   | -12.35                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 4.958                                  | 4.962                                  | 7.970                                | 11.00                      | -3.030                |
| High    | 5610               | 5.206                                  | 4.942                                  | 8.086                                | 11.00                      | -2.914                |
| 138     | 5690               | 4.461                                  | 4.513                                  | 7.497                                | 11.00                      | -3.503                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 19.64                       | 0.22                                      | 3.22                                    | 23.93                   | 11.00                      |
| High    | 5610               | 19.50                       | 0.22                                      | 3.22                                    | 23.90                   | 11.00                      |
| 138     | 5690               | 19.31                       | 0.22                                      | 3.22                                    | 23.86                   | 11.00                      |

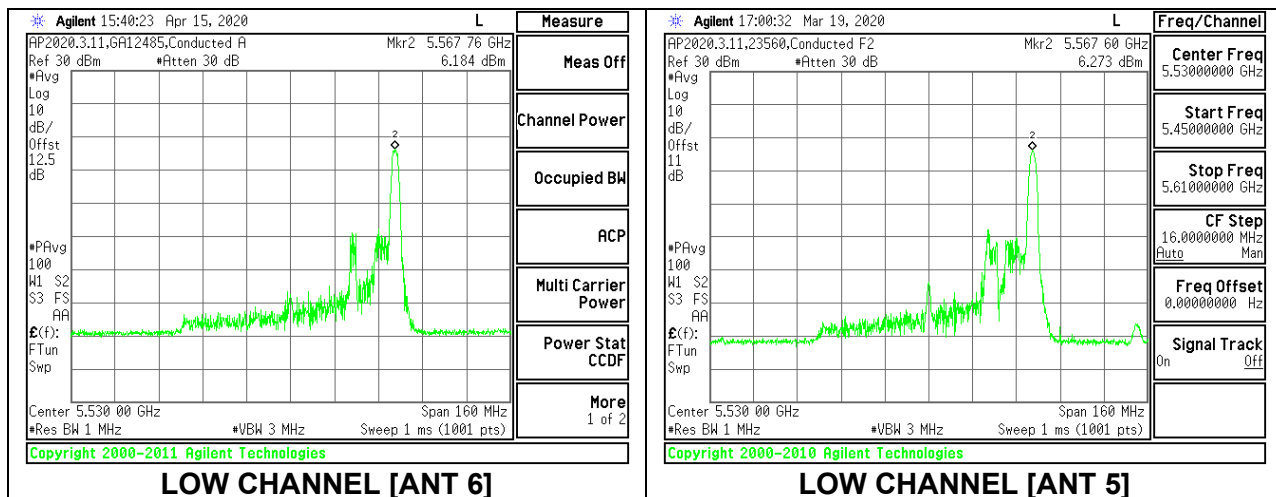
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 8.69                                | 8.64                                | 11.68                             | 23.93                   | -12.26                  |
| High    | 5610               | 8.65                                | 8.62                                | 11.65                             | 23.90                   | -12.26                  |
| 138     | 5690               | 8.70                                | 8.62                                | 11.67                             | 23.86                   | -12.19                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | 6.184                                  | 6.273                                  | 9.239                                | 11.00                      | -1.761                |
| High    | 5610               | 6.041                                  | 6.220                                  | 9.142                                | 11.00                      | -1.858                |
| 138     | 5690               | 6.512                                  | 6.217                                  | 9.377                                | 11.00                      | -1.623                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 44353      |
| Test Date:     | 08/05/2020 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/1MHz) |
|---------|--------------------|-----------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------------------|
| Low     | 5530               | 80.29                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| High    | 5610               | 80.41                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |
| 138     | 5690               | 80.22                       | 0.22                                      | 3.22                                    | 24.00                   | 11.00                      |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

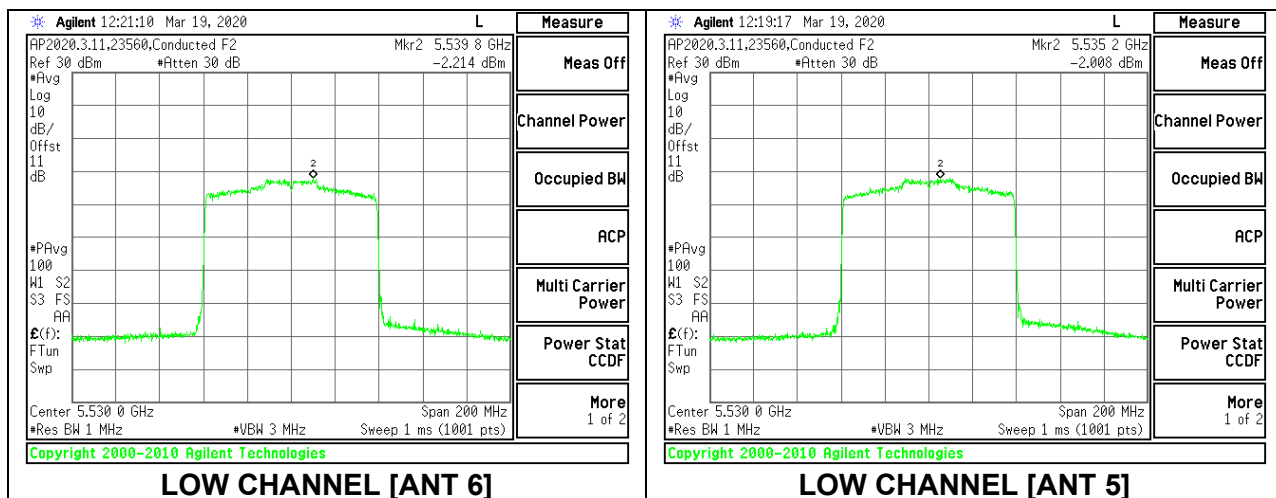
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 13.74                               | 13.72                               | 16.74                             | 24.00                   | -7.26                   |
| High    | 5610               | 16.48                               | 19.67                               | 21.37                             | 24.00                   | -2.63                   |
| 138     | 5690               | 16.43                               | 19.70                               | 21.38                             | 24.00                   | -2.62                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/1MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/1MHz) | PSD<br>Limit<br>(dBm/1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------|-----------------------|
| Low     | 5530               | -2.214                                 | -2.008                                 | 0.901                                | 11.00                      | -10.099               |
| High    | 5610               | 3.899                                  | 3.739                                  | 6.830                                | 11.00                      | -4.170                |
| 138     | 5690               | 3.639                                  | 3.554                                  | 6.607                                | 11.00                      | -4.393                |

NOTE: 5610/5690 PSD tested at higher power



## 9.4.19. 802.11n HT20 MODE IN THE 5.8 GHz BAND

### 1TX ANT 6 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

#### Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -0.60                        | 30.00                   | 30.00                        |
| Mid     | 5785               | -0.60                        | 30.00                   | 30.00                        |
| High    | 5825               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

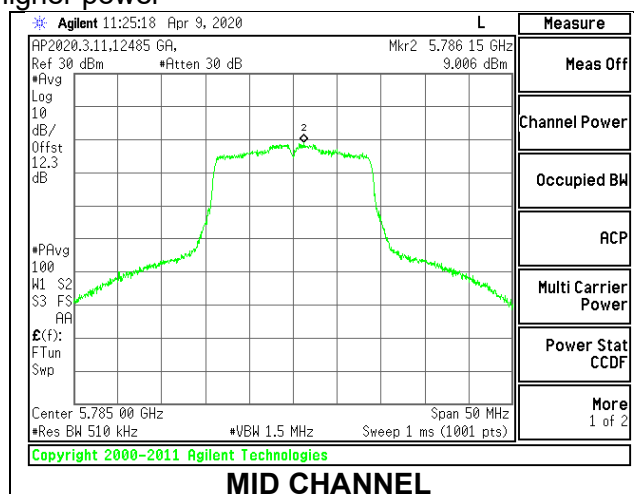
#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.70                               | 17.70                             | 30.00                   | -12.30                  |
| Mid     | 5785               | 17.65                               | 17.65                             | 30.00                   | -12.35                  |
| High    | 5825               | 17.72                               | 17.72                             | 30.00                   | -12.28                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 8.677                                    | 8.677                                  | 30.00                        | -21.32                |
| Mid     | 5785               | 9.006                                    | 9.006                                  | 30.00                        | -20.99                |
| High    | 5825               | 8.946                                    | 8.946                                  | 30.00                        | -21.05                |

NOTE: PSD tested at higher power



# 1TX ANT 5 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

## Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -1.70                        | 30.00                   | 30.00                        |
| Mid     | 5785               | -1.70                        | 30.00                   | 30.00                        |
| High    | 5825               | -1.70                        | 30.00                   | 30.00                        |

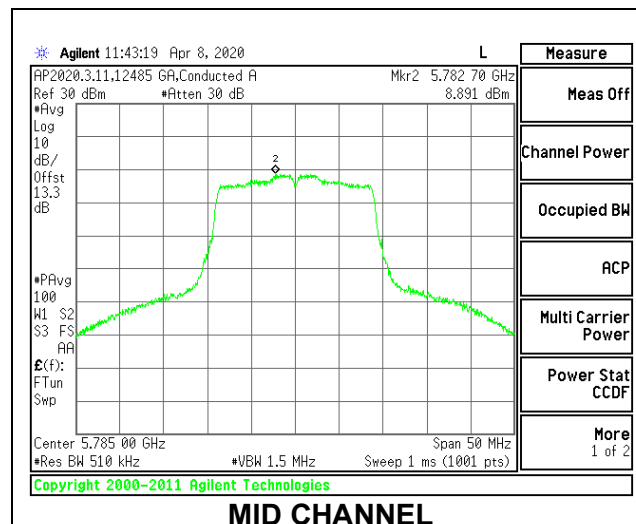
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

## Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 21.17                               | 21.17                             | 30.00                   | -8.83                   |
| Mid     | 5785               | 21.15                               | 21.15                             | 30.00                   | -8.85                   |
| High    | 5825               | 21.11                               | 21.11                             | 30.00                   | -8.89                   |

## PSD Results

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 8.907                                    | 8.907                                  | 30.00                        | -21.09                |
| Mid     | 5785               | 8.891                                    | 8.891                                  | 30.00                        | -21.11                |
| High    | 5825               | 8.809                                    | 8.809                                  | 30.00                        | -21.19                |



## 2TX ANT 6 + ANT 5 CDD MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

### Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Low     | 5745               | 1.00                                      | 1.00                                    | 30.00                   | 30.00                        |
| Mid     | 5785               | 1.00                                      | 1.00                                    | 30.00                   | 30.00                        |
| High    | 5825               | 1.00                                      | 1.00                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

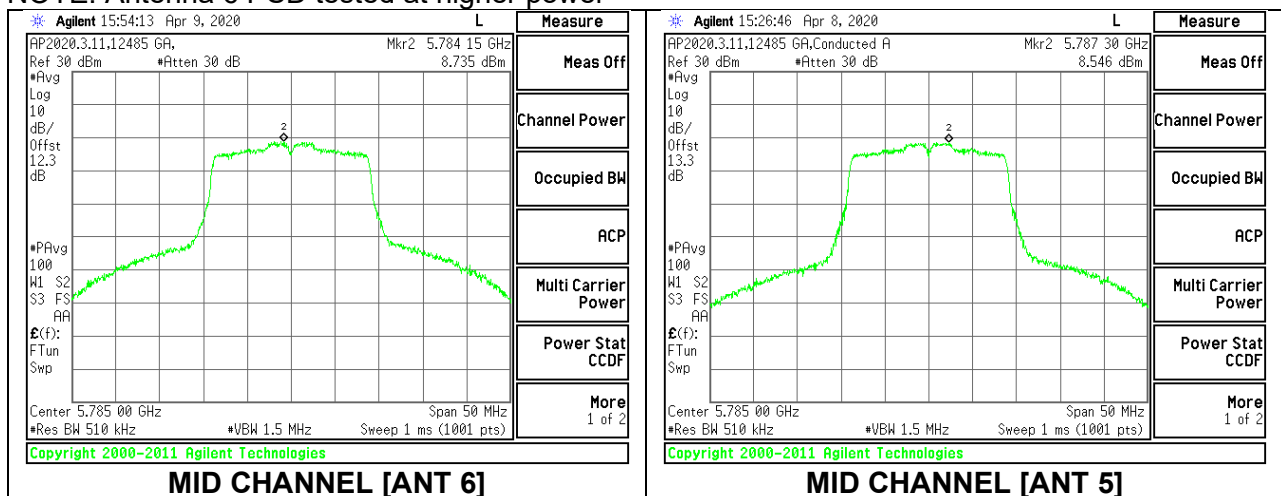
### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.70                               | 21.16                               | 22.78                             | 30.00                   | -7.22                   |
| Mid     | 5785               | 17.65                               | 21.11                               | 22.73                             | 30.00                   | -7.27                   |
| High    | 5825               | 17.71                               | 21.24                               | 22.83                             | 30.00                   | -7.17                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 8.558                                    | 8.634                                    | 11.606                                 | 30.00                        | -18.394               |
| Mid     | 5785               | 8.735                                    | 8.546                                    | 11.652                                 | 30.00                        | -18.348               |
| High    | 5825               | 8.798                                    | 8.906                                    | 11.863                                 | 30.00                        | -18.137               |

NOTE: Antenna 6 PSD tested at higher power



## 9.4.20. 802.11n HT40 MODE IN THE 5.8 GHz BAND

### 1TX ANT 6 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

#### Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -0.60                        | 30.00                   | 30.00                        |
| High    | 5795               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.14 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

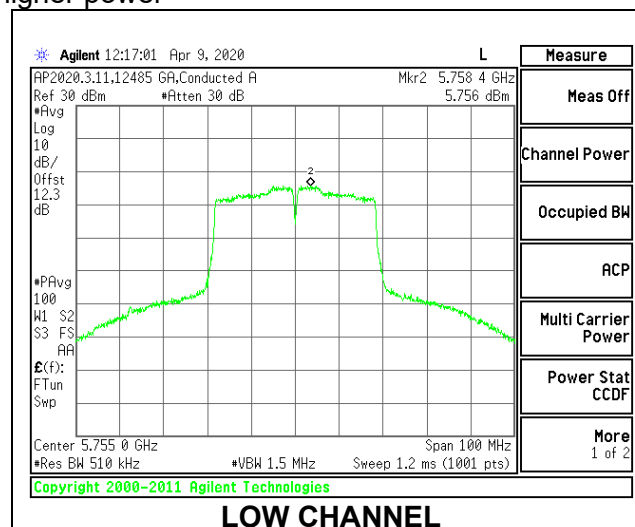
#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 17.69                               | 17.69                             | 30.00                   | -12.31                  |
| High    | 5795               | 17.70                               | 17.70                             | 30.00                   | -12.30                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 5.756                                    | 5.896                                  | 30.00                        | -24.10                |
| High    | 5795               | 5.661                                    | 5.801                                  | 30.00                        | -24.20                |

NOTE: PSD tested at higher power



# 1TX ANT 5 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

## Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -1.70                        | 30.00                   | 30.00                        |
| High    | 5795               | -1.70                        | 30.00                   | 30.00                        |

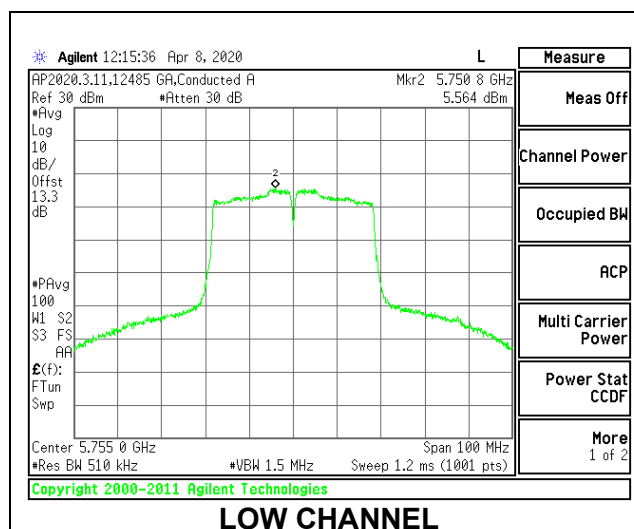
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.14 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

## Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 20.77                               | 20.77                             | 30.00                   | -9.23                   |
| High    | 5795               | 20.66                               | 20.66                             | 30.00                   | -9.34                   |

## PSD Results

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 5.564                                    | 5.704                                  | 30.00                        | -24.30                |
| High    | 5795               | 5.553                                    | 5.693                                  | 30.00                        | -24.31                |



## 2TX ANT 6 + ANT 5 CDD MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

### Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| High    | 5795               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.17 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

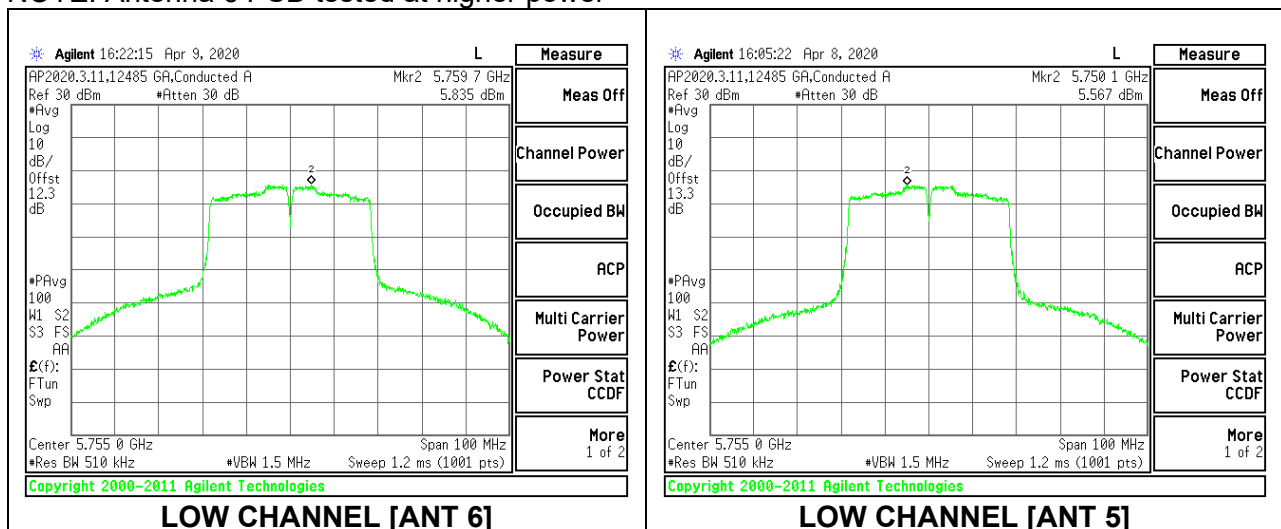
### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 17.72                               | 20.65                               | 22.44                             | 30.00                   | -7.56                   |
| High    | 5795               | 17.74                               | 20.71                               | 22.48                             | 30.00                   | -7.52                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 5.835                                    | 5.567                                    | 8.883                                  | 30.00                        | -21.117               |
| High    | 5795               | 5.622                                    | 5.975                                    | 8.982                                  | 30.00                        | -21.018               |

NOTE: Antenna 6 PSD tested at higher power



## 9.4.21. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

### 1TX ANT 6 MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

#### Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.22 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

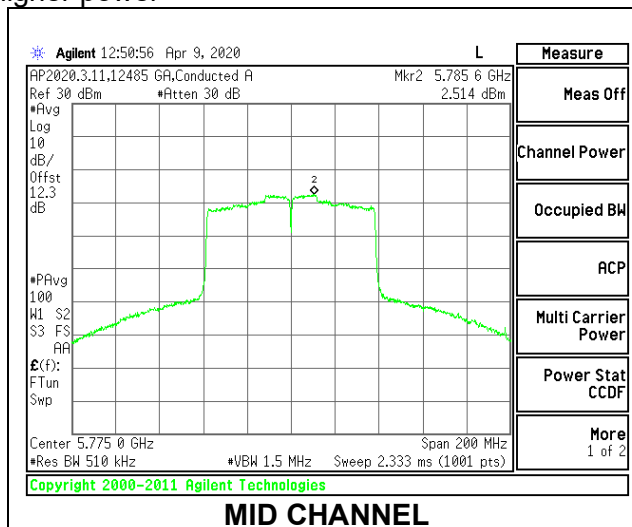
#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 17.67                               | 17.67                             | 30.00                   | -12.33                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 2.514                                    | 2.734                                  | 30.00                        | -27.27                |

NOTE: PSD tested at higher power



# **1TX ANT 5 MODE (FCC)**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

## **Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -1.70                        | 30.00                   | 30.00                        |

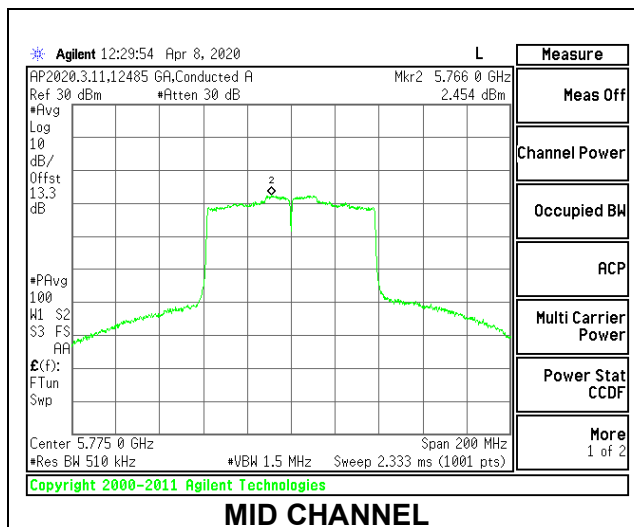
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.22 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

## **Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 20.14                               | 20.14                             | 30.00                   | -9.86                   |

## **PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 2.454                                    | 2.674                                  | 30.00                        | -27.33                |



## 2TX ANT 6 + ANT 5 CDD MODE (FCC)

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

### Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

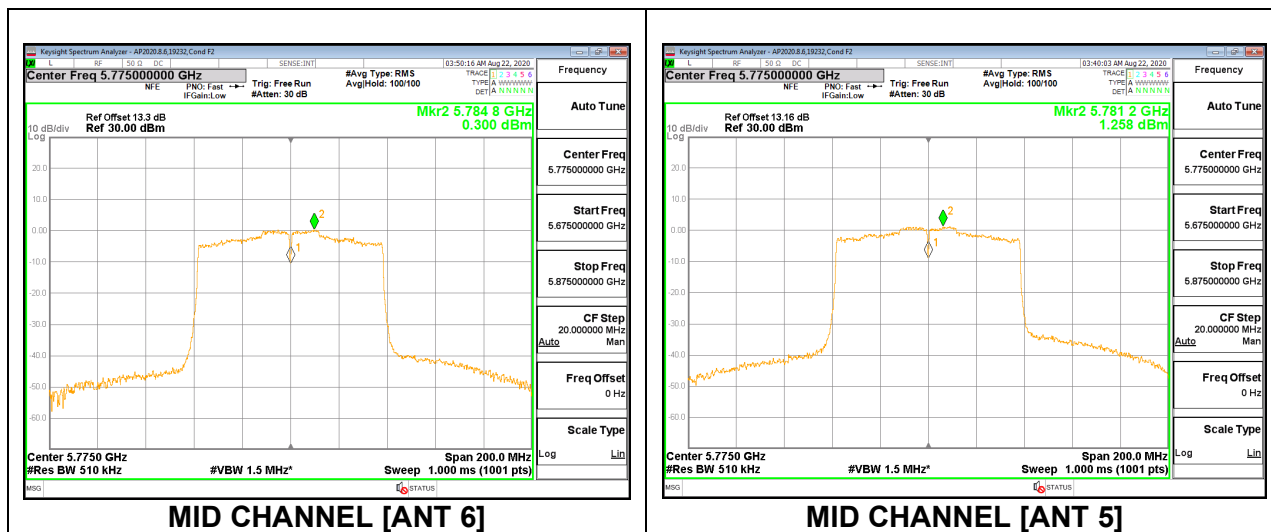
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.33 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 17.73                               | 19.69                               | 21.83                             | 30.00                   | -8.17                   |

### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 0.300                                    | 1.258                                    | 4.146                                  | 30.00                        | -25.854               |



## 9.4.22. 802.11ax HE20 MODE IN THE 5.8 GHz BAND

### 1TX ANT 6 MODE (FCC): 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

#### Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -0.60                        | 30.00                   | 30.00                        |
| Mid     | 5785               | -0.60                        | 30.00                   | 30.00                        |
| High    | 5825               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

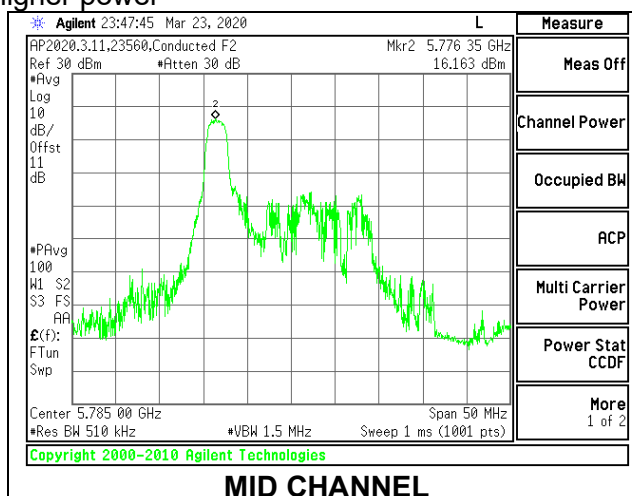
#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.71                               | 17.71                             | 30.00                   | -12.29                  |
| Mid     | 5785               | 17.72                               | 17.72                             | 30.00                   | -12.28                  |
| High    | 5825               | 17.68                               | 17.68                             | 30.00                   | -12.32                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 16.242                                   | 16.242                                 | 30.00                        | -13.76                |
| Mid     | 5785               | 16.163                                   | 16.163                                 | 30.00                        | -13.84                |
| High    | 5825               | 16.110                                   | 16.110                                 | 30.00                        | -13.89                |

NOTE: PSD tested at higher power



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -0.60                        | 30.00                   | 30.00                        |
| Mid     | 5785               | -0.60                        | 30.00                   | 30.00                        |
| High    | 5825               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

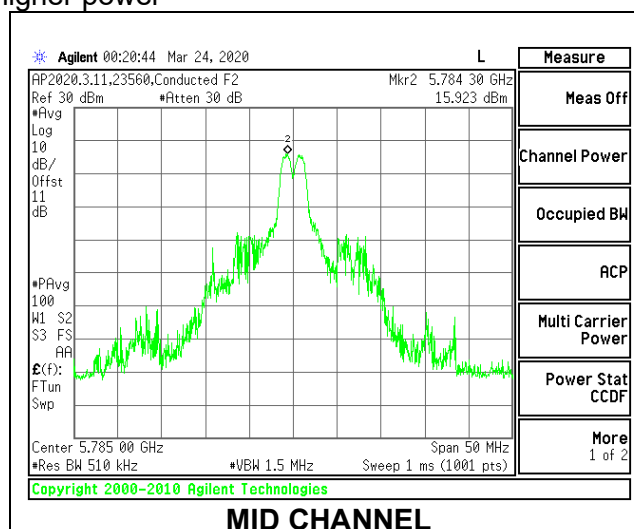
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.65                               | 17.65                             | 30.00                   | -12.35                  |
| Mid     | 5785               | 17.67                               | 17.67                             | 30.00                   | -12.33                  |
| High    | 5825               | 17.70                               | 17.70                             | 30.00                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 15.715                                   | 15.715                                 | 30.00                        | -14.29                |
| Mid     | 5785               | 15.923                                   | 15.923                                 | 30.00                        | -14.08                |
| High    | 5825               | 15.980                                   | 15.980                                 | 30.00                        | -14.02                |

NOTE: PSD tested at higher power



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -0.60                        | 30.00                   | 30.00                        |
| Mid     | 5785               | -0.60                        | 30.00                   | 30.00                        |
| High    | 5825               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

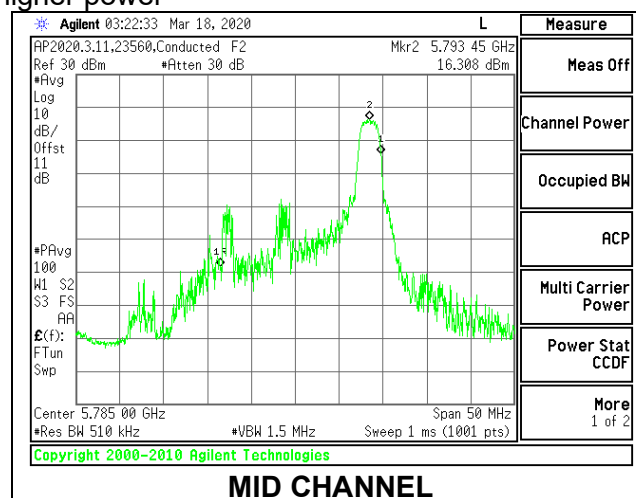
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.69                               | 17.69                             | 30.00                   | -12.31                  |
| Mid     | 5785               | 17.70                               | 17.70                             | 30.00                   | -12.30                  |
| High    | 5825               | 17.71                               | 17.71                             | 30.00                   | -12.29                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 15.940                                   | 15.940                                 | 30.00                        | -14.06                |
| Mid     | 5785               | 16.308                                   | 16.308                                 | 30.00                        | -13.69                |
| High    | 5825               | 16.564                                   | 16.564                                 | 30.00                        | -13.44                |

NOTE: PSD tested at higher power



**1TX ANT 6 MODE (FCC): 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -0.60                        | 30.00                   | 30.00                        |
| Mid     | 5785               | -0.60                        | 30.00                   | 30.00                        |
| High    | 5825               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

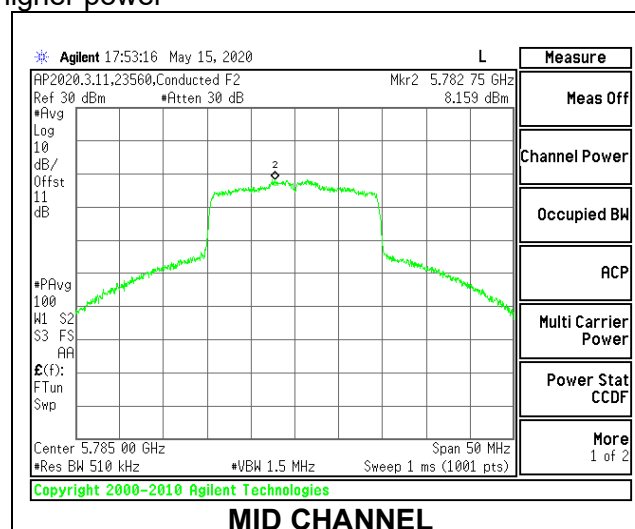
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.74                               | 17.74                             | 30.00                   | -12.26                  |
| Mid     | 5785               | 17.66                               | 17.66                             | 30.00                   | -12.34                  |
| High    | 5825               | 17.70                               | 17.70                             | 30.00                   | -12.30                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 8.173                                    | 8.173                                  | 30.00                        | -21.83                |
| Mid     | 5785               | 8.159                                    | 8.159                                  | 30.00                        | -21.84                |
| High    | 5825               | 8.287                                    | 8.287                                  | 30.00                        | -21.71                |

NOTE: PSD tested at higher power



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -1.70                        | 30.00                   | 30.00                        |
| Mid     | 5785               | -1.70                        | 30.00                   | 30.00                        |
| High    | 5825               | -1.70                        | 30.00                   | 30.00                        |

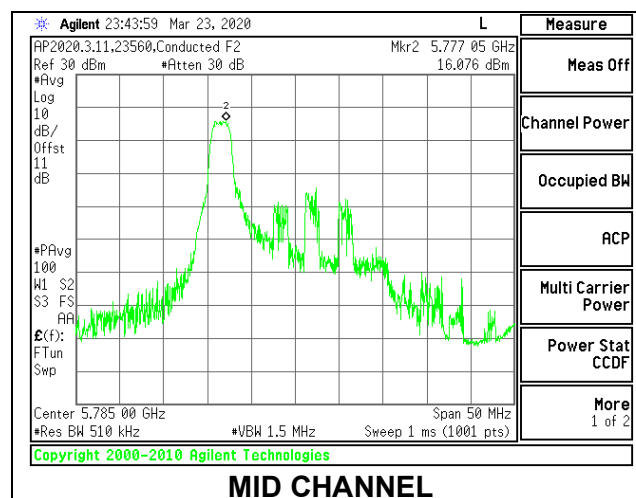
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 21.20                               | 21.20                             | 30.00                   | -8.80                   |
| Mid     | 5785               | 21.19                               | 21.19                             | 30.00                   | -8.81                   |
| High    | 5825               | 21.25                               | 21.25                             | 30.00                   | -8.75                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 16.146                                   | 16.146                                 | 30.00                        | -13.85                |
| Mid     | 5785               | 16.076                                   | 16.076                                 | 30.00                        | -13.92                |
| High    | 5825               | 16.347                                   | 16.347                                 | 30.00                        | -13.65                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -1.70                        | 30.00                   | 30.00                        |
| Mid     | 5785               | -1.70                        | 30.00                   | 30.00                        |
| High    | 5825               | -1.70                        | 30.00                   | 30.00                        |

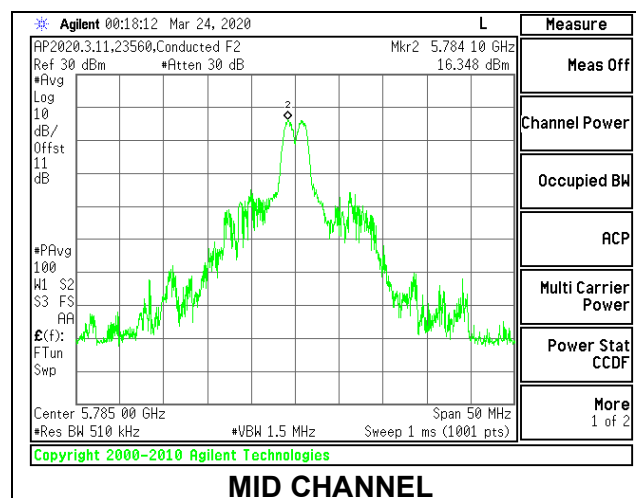
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 21.15                               | 21.15                             | 30.00                   | -8.85                   |
| Mid     | 5785               | 21.19                               | 21.19                             | 30.00                   | -8.81                   |
| High    | 5825               | 21.20                               | 21.20                             | 30.00                   | -8.80                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 16.018                                   | 16.018                                 | 30.00                        | -13.98                |
| Mid     | 5785               | 16.348                                   | 16.348                                 | 30.00                        | -13.65                |
| High    | 5825               | 15.689                                   | 15.689                                 | 30.00                        | -14.31                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -1.70                        | 30.00                   | 30.00                        |
| Mid     | 5785               | -1.70                        | 30.00                   | 30.00                        |
| High    | 5825               | -1.70                        | 30.00                   | 30.00                        |

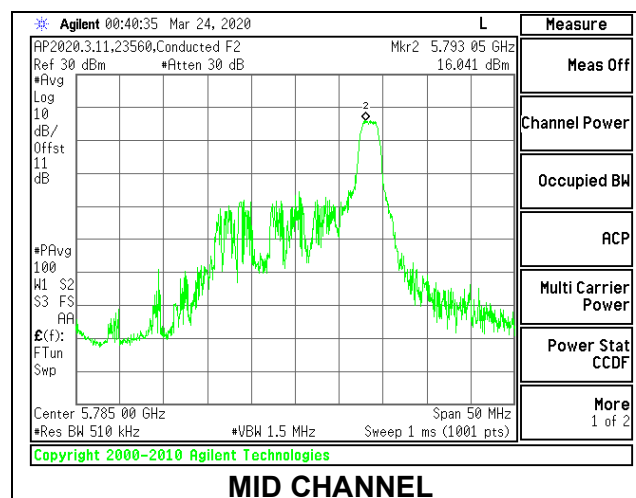
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 21.15                               | 21.15                             | 30.00                   | -8.85                   |
| Mid     | 5785               | 21.22                               | 21.22                             | 30.00                   | -8.78                   |
| High    | 5825               | 21.24                               | 21.24                             | 30.00                   | -8.76                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 16.107                                   | 16.107                                 | 30.00                        | -13.89                |
| Mid     | 5785               | 16.041                                   | 16.041                                 | 30.00                        | -13.96                |
| High    | 5825               | 15.574                                   | 15.574                                 | 30.00                        | -14.43                |



**1TX ANT 5 MODE (FCC): 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -1.70                        | 30.00                   | 30.00                        |
| Mid     | 5785               | -1.70                        | 30.00                   | 30.00                        |
| High    | 5825               | -1.70                        | 30.00                   | 30.00                        |

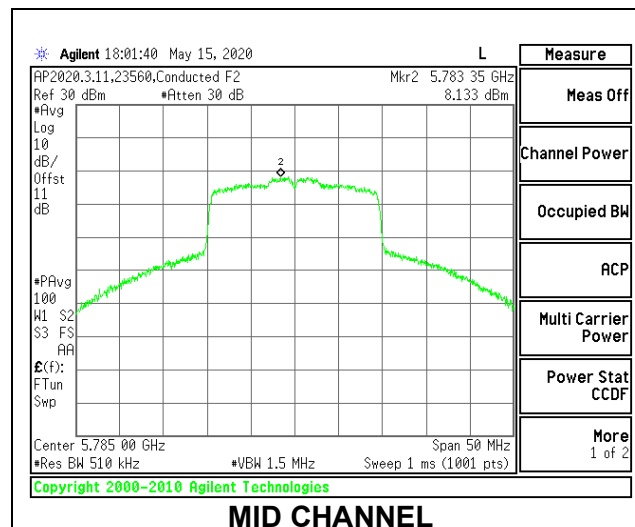
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 21.19                               | 21.19                             | 30.00                   | -8.81                   |
| Mid     | 5785               | 21.24                               | 21.24                             | 30.00                   | -8.76                   |
| High    | 5825               | 21.21                               | 21.21                             | 30.00                   | -8.79                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 8.226                                    | 8.226                                  | 30.00                        | -21.77                |
| Mid     | 5785               | 8.133                                    | 8.133                                  | 30.00                        | -21.87                |
| High    | 5825               | 8.299                                    | 8.299                                  | 30.00                        | -21.70                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| Mid     | 5785               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| High    | 5825               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

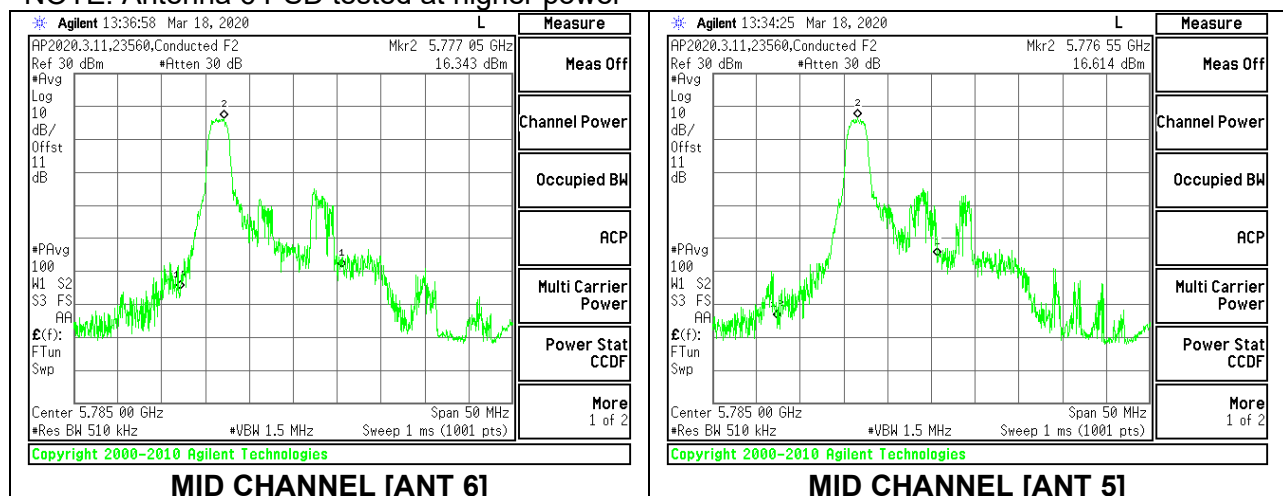
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.65                               | 21.22                               | 22.80                             | 30.00                   | -7.20                   |
| Mid     | 5785               | 17.68                               | 21.24                               | 22.83                             | 30.00                   | -7.17                   |
| High    | 5825               | 17.64                               | 21.16                               | 22.76                             | 30.00                   | -7.24                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 16.235                                   | 16.371                                   | 19.314                                 | 30.00                        | -10.686               |
| Mid     | 5785               | 16.343                                   | 16.614                                   | 19.491                                 | 30.00                        | -10.509               |
| High    | 5825               | 16.146                                   | 16.188                                   | 19.177                                 | 30.00                        | -10.823               |

NOTE: Antenna 6 PSD tested at higher power



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 4**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| Mid     | 5785               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| High    | 5825               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

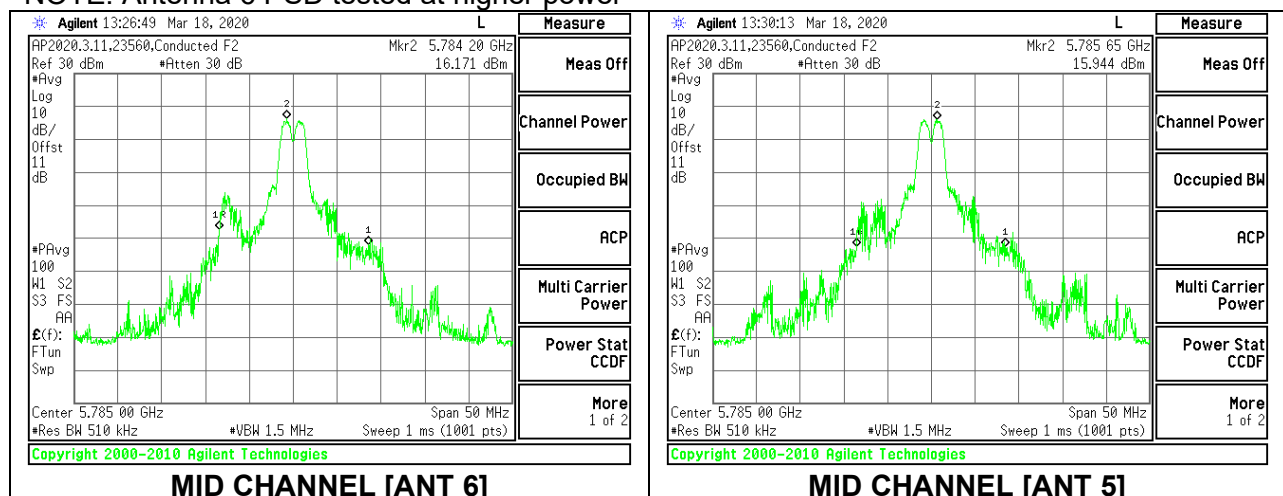
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.75                               | 21.10                               | 22.75                             | 30.00                   | -7.25                   |
| Mid     | 5785               | 17.70                               | 21.17                               | 22.78                             | 30.00                   | -7.22                   |
| High    | 5825               | 17.72                               | 21.16                               | 22.78                             | 30.00                   | -7.22                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 15.902                                   | 15.691                                   | 18.808                                 | 30.00                        | -11.192               |
| Mid     | 5785               | 16.171                                   | 15.944                                   | 19.069                                 | 30.00                        | -10.931               |
| High    | 5825               | 15.785                                   | 15.901                                   | 18.854                                 | 30.00                        | -11.146               |

NOTE: Antenna 6 PSD tested at higher power



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| Mid     | 5785               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| High    | 5825               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

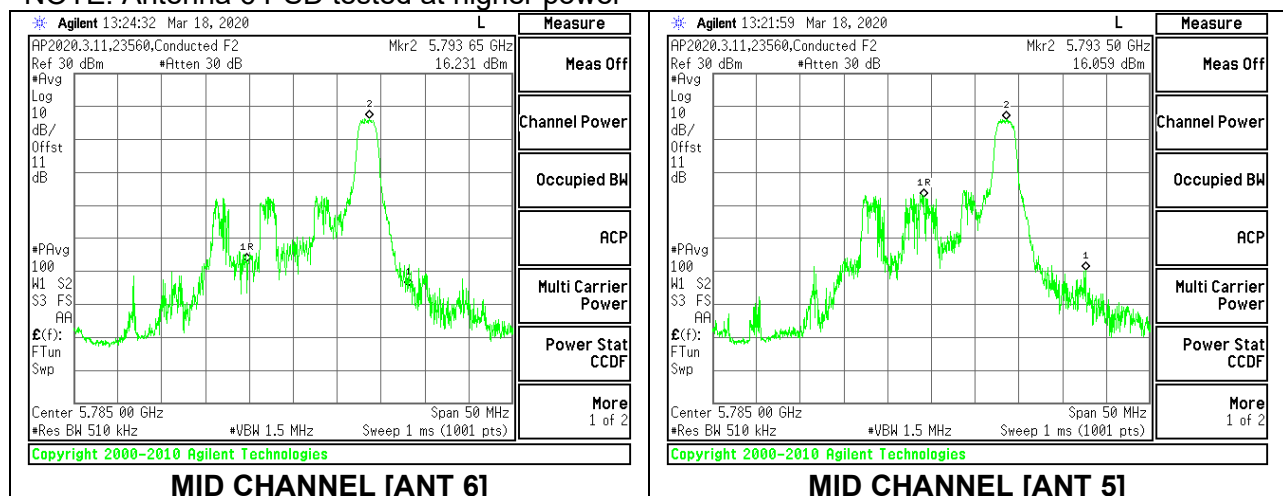
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.72                               | 21.19                               | 22.80                             | 30.00                   | -7.20                   |
| Mid     | 5785               | 17.74                               | 21.10                               | 22.75                             | 30.00                   | -7.25                   |
| High    | 5825               | 17.70                               | 21.17                               | 22.78                             | 30.00                   | -7.22                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 16.557                                   | 16.460                                   | 19.519                                 | 30.00                        | -10.481               |
| Mid     | 5785               | 16.231                                   | 16.059                                   | 19.156                                 | 30.00                        | -10.844               |
| High    | 5825               | 16.467                                   | 16.398                                   | 19.443                                 | 30.00                        | -10.557               |

NOTE: Antenna 6 PSD tested at higher power



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 242 Tones, RU Index 61**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Low     | 5745               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| Mid     | 5785               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| High    | 5825               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

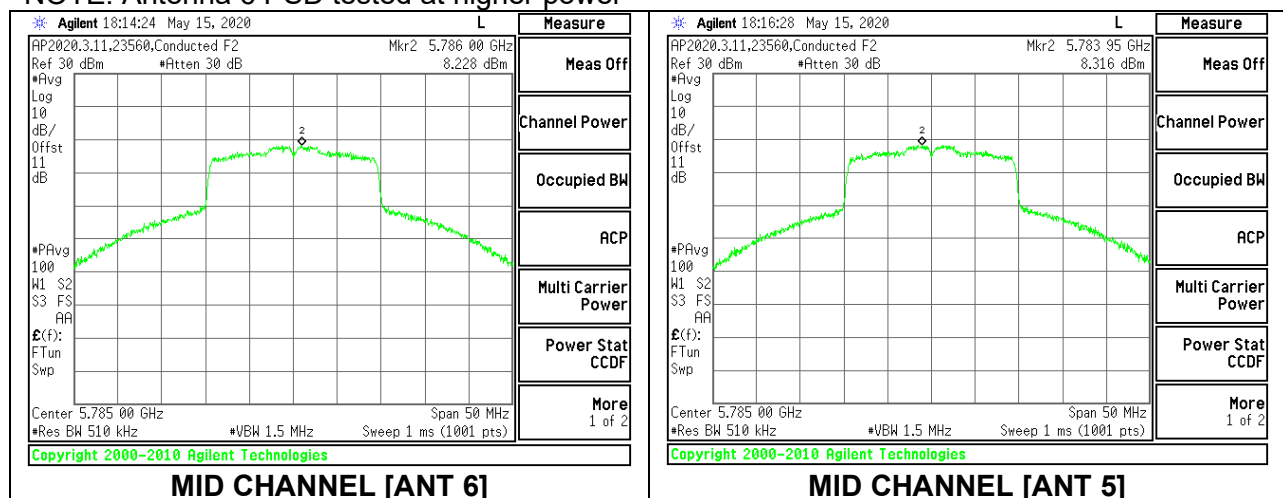
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.70                               | 21.15                               | 22.77                             | 30.00                   | -7.23                   |
| Mid     | 5785               | 17.73                               | 21.19                               | 22.81                             | 30.00                   | -7.19                   |
| High    | 5825               | 17.75                               | 21.21                               | 22.83                             | 30.00                   | -7.17                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5745               | 8.201                                    | 8.282                                    | 11.252                                 | 30.00                        | -18.748               |
| Mid     | 5785               | 8.228                                    | 8.316                                    | 11.283                                 | 30.00                        | -18.717               |
| High    | 5825               | 8.295                                    | 8.369                                    | 11.342                                 | 30.00                        | -18.658               |

NOTE: Antenna 6 PSD tested at higher power



### 9.4.23. 802.11ax HE40 MODE IN THE 5.8 GHz BAND

#### 1TX ANT 6 MODE (FCC): 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

#### Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -0.60                        | 30.00                   | 30.00                        |
| High    | 5795               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

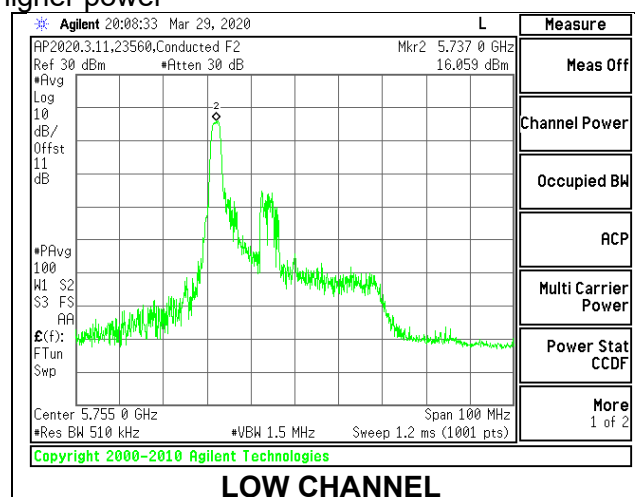
#### Output Power Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 17.72                               | 17.72                             | 30.00                   | -12.28                  |
| High    | 5795               | 17.69                               | 17.69                             | 30.00                   | -12.31                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 16.059                                   | 16.059                                 | 30.00                        | -13.94                |
| High    | 5795               | 16.278                                   | 16.278                                 | 30.00                        | -13.72                |

NOTE: PSD tested at higher power



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -0.60                        | 30.00                   | 30.00                        |
| High    | 5795               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

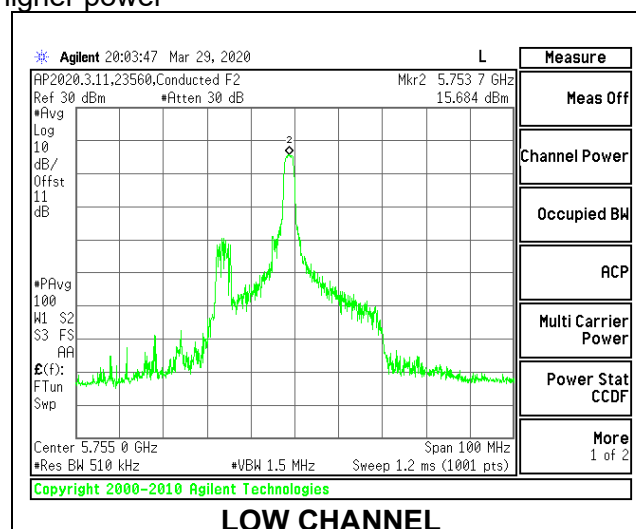
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 17.69                               | 17.69                             | 30.00                   | -12.31                  |
| High    | 5795               | 17.77                               | 17.77                             | 30.00                   | -12.23                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 15.684                                   | 15.684                                 | 30.00                        | -14.32                |
| High    | 5795               | 16.061                                   | 16.061                                 | 30.00                        | -13.94                |

NOTE: PSD tested at higher power



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 17**

|                       |            |
|-----------------------|------------|
| <b>Test Engineer:</b> | 12485 GA   |
| <b>Test Date:</b>     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -0.60                        | 30.00                   | 30.00                        |
| High    | 5795               | -0.60                        | 30.00                   | 30.00                        |

|                           |      |                                               |
|---------------------------|------|-----------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|-----------------------------------------------|

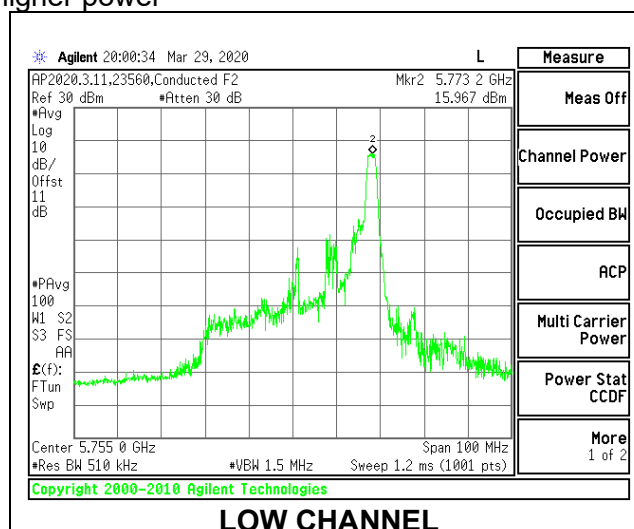
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 17.65                               | 17.65                             | 30.00                   | -12.35                  |
| High    | 5795               | 17.69                               | 17.69                             | 30.00                   | -12.31                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 15.967                                   | 15.967                                 | 30.00                        | -14.03                |
| High    | 5795               | 16.031                                   | 16.031                                 | 30.00                        | -13.97                |

NOTE: PSD tested at higher power



**1TX ANT 6 MODE (FCC): 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -0.60                        | 30.00                   | 30.00                        |
| High    | 5795               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

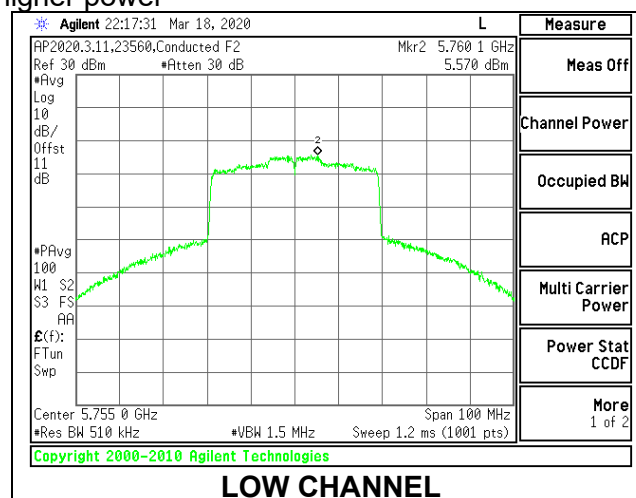
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 17.74                               | 17.74                             | 30.00                   | -12.26                  |
| High    | 5795               | 17.69                               | 17.69                             | 30.00                   | -12.31                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 5.570                                    | 5.570                                  | 30.00                        | -24.43                |
| High    | 5795               | 5.420                                    | 5.420                                  | 30.00                        | -24.58                |

NOTE: PSD tested at higher power



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -1.70                        | 30.00                   | 30.00                        |
| High    | 5795               | -1.70                        | 30.00                   | 30.00                        |

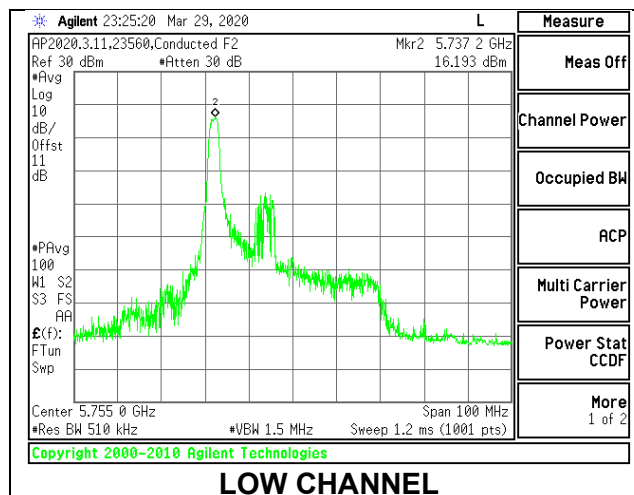
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 20.75                               | 20.75                             | 30.00                   | -9.25                   |
| High    | 5795               | 20.68                               | 20.68                             | 30.00                   | -9.32                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 16.193                                   | 16.193                                 | 30.00                        | -13.81                |
| High    | 5795               | 16.200                                   | 16.200                                 | 30.00                        | -13.80                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -1.70                        | 30.00                   | 30.00                        |
| High    | 5795               | -1.70                        | 30.00                   | 30.00                        |

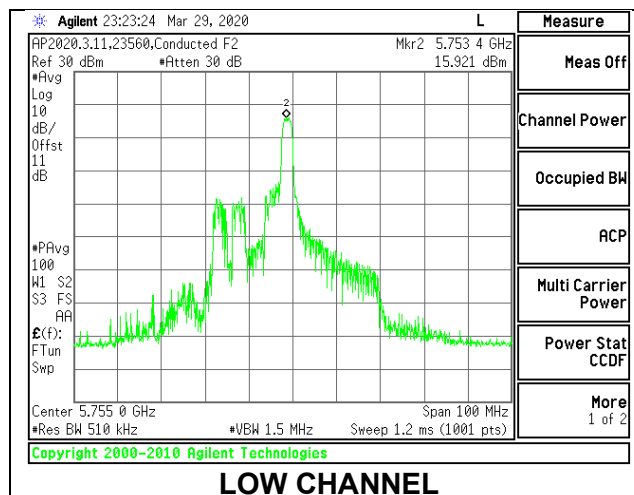
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 20.68                               | 20.68                             | 30.00                   | -9.32                   |
| High    | 5795               | 20.74                               | 20.74                             | 30.00                   | -9.26                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 15.921                                   | 15.921                                 | 30.00                        | -14.08                |
| High    | 5795               | 16.312                                   | 16.312                                 | 30.00                        | -13.69                |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -1.70                        | 30.00                   | 30.00                        |
| High    | 5795               | -1.70                        | 30.00                   | 30.00                        |

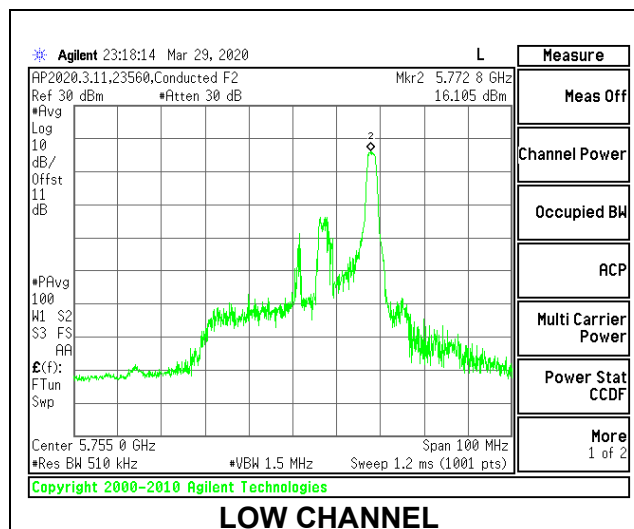
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 20.72                               | 20.72                             | 30.00                   | -9.28                   |
| High    | 5795               | 20.75                               | 20.75                             | 30.00                   | -9.25                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 16.105                                   | 16.105                                 | 30.00                        | -13.90                |
| High    | 5795               | 16.182                                   | 16.182                                 | 30.00                        | -13.82                |



**1TX ANT 5 MODE (FCC): 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -1.70                        | 30.00                   | 30.00                        |
| High    | 5795               | -1.70                        | 30.00                   | 30.00                        |

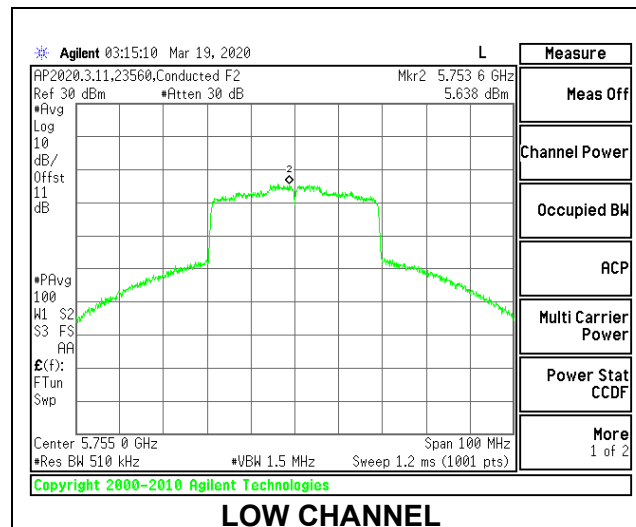
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 20.66                               | 20.66                             | 30.00                   | -9.34                   |
| High    | 5795               | 20.69                               | 20.69                             | 30.00                   | -9.31                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 5.638                                    | 5.638                                  | 30.00                        | -24.36                |
| High    | 5795               | 5.560                                    | 5.560                                  | 30.00                        | -24.44                |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -1.12                                     | 1.88                                    | 1.00                    | 30.00                        |
| High    | 5795               | -1.12                                     | 1.88                                    | 1.00                    | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

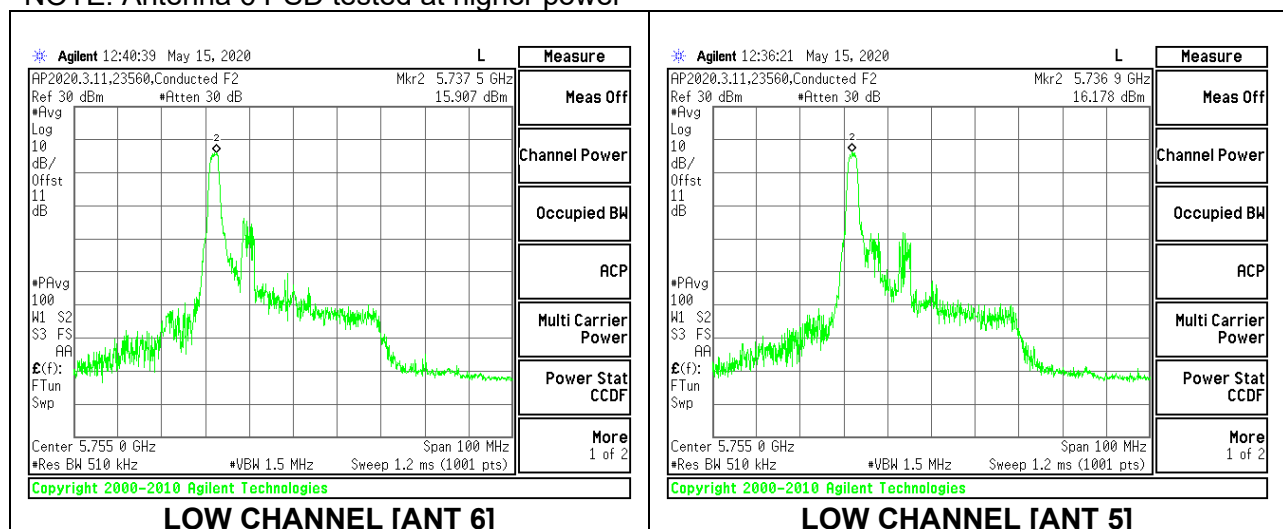
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 17.64                               | 20.61                               | 22.38                             | 1.00                    | 21.38                   |
| High    | 5795               | 17.71                               | 20.68                               | 22.45                             | 1.00                    | 21.45                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 15.907                                   | 16.178                                   | 19.055                                 | 30.00                        | -10.945               |
| High    | 5795               | 16.109                                   | 16.225                                   | 19.178                                 | 30.00                        | -10.822               |

NOTE: Antenna 6 PSD tested at higher power



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 8**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| High    | 5795               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

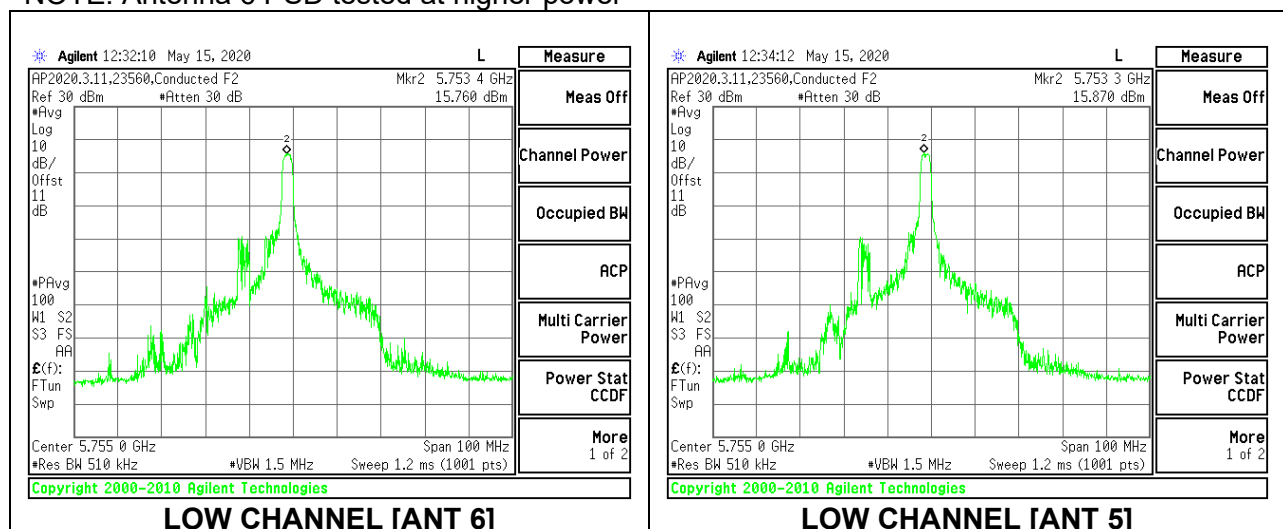
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 17.73                               | 20.74                               | 22.50                             | 30.00                   | -7.50                   |
| High    | 5795               | 17.68                               | 20.71                               | 22.46                             | 30.00                   | -7.54                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 15.760                                   | 15.870                                   | 18.826                                 | 30.00                        | -11.174               |
| High    | 5795               | 17.034                                   | 16.134                                   | 19.618                                 | 30.00                        | -10.382               |

NOTE: Antenna 6 PSD tested at higher power



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 17**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| High    | 5795               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

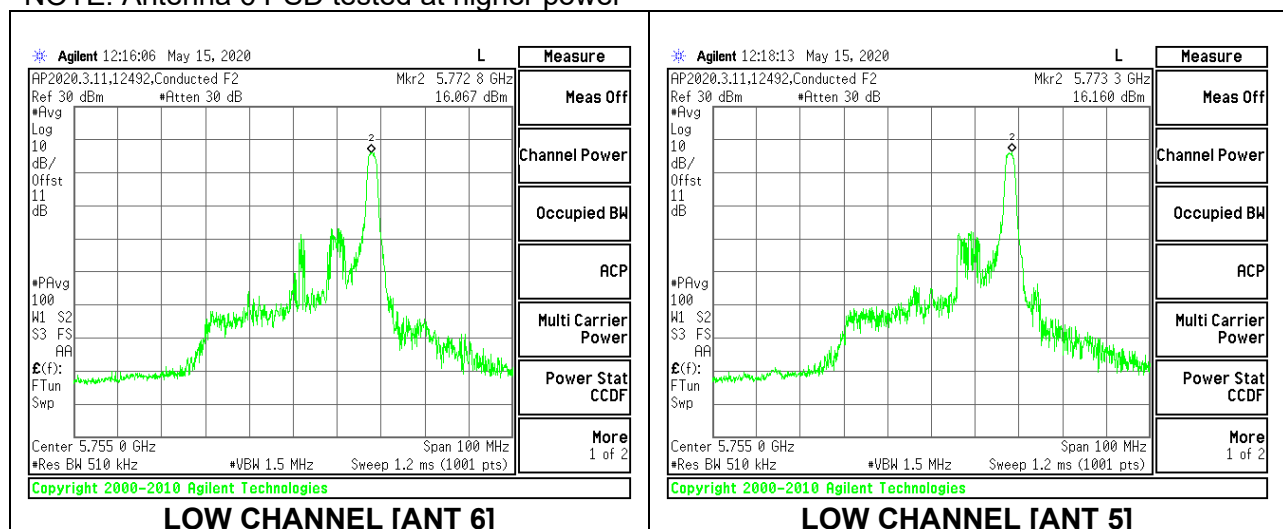
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 17.74                               | 20.73                               | 22.50                             | 30.00                   | -7.50                   |
| High    | 5795               | 17.68                               | 20.71                               | 22.46                             | 30.00                   | -7.54                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 16.067                                   | 16.160                                   | 19.124                                 | 30.00                        | -10.876               |
| High    | 5795               | 16.001                                   | 16.078                                   | 19.050                                 | 30.00                        | -10.950               |

NOTE: Antenna 6 PSD tested at higher power



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 484 Tones, RU Index 65**

|                |            |
|----------------|------------|
| Test Engineer: | 12485 GA   |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Low     | 5755               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |
| High    | 5795               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

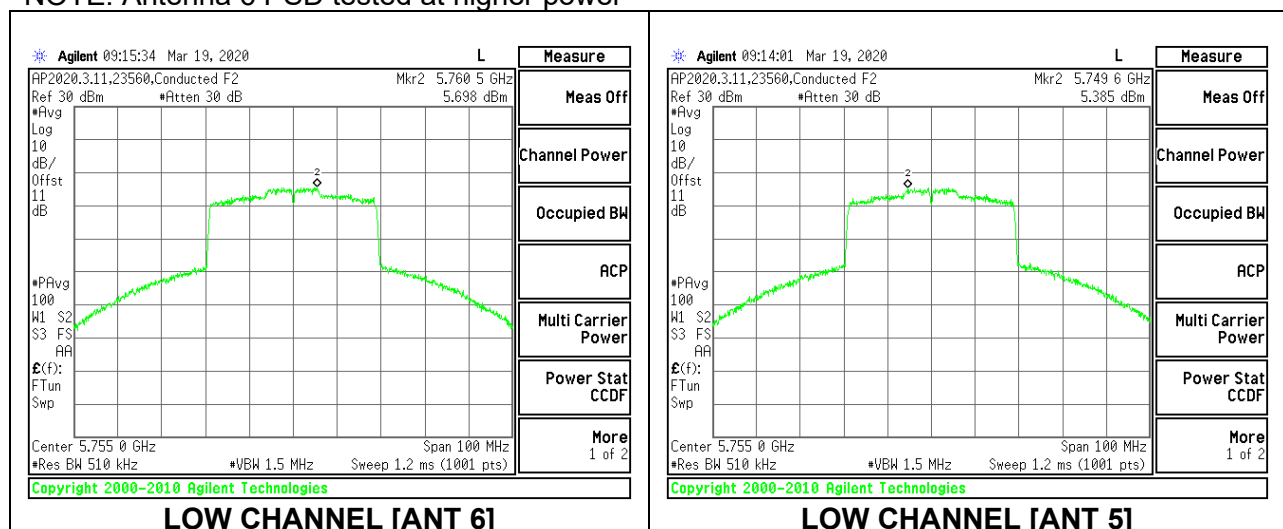
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 17.68                               | 20.68                               | 22.44                             | 30.00                   | -7.56                   |
| High    | 5795               | 17.72                               | 20.71                               | 22.48                             | 30.00                   | -7.52                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Low     | 5755               | 5.698                                    | 5.385                                    | 8.555                                  | 30.00                        | -21.445               |
| High    | 5795               | 5.200                                    | 5.304                                    | 8.263                                  | 30.00                        | -21.737               |

NOTE: Antenna 6 PSD tested at higher power



## 9.4.24. 802.11ax HE80 MODE IN THE 5.8 GHz BAND

### 1TX ANT 6 MODE (FCC): 26 Tones, RU Index 0

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

#### Antenna Gain and Limit

| Channel | Frequency | Directional Gain | Power Limit | PSD Limit    |
|---------|-----------|------------------|-------------|--------------|
|         | (MHz)     | (dBi)            | (dBm)       | (dBm/500KHz) |
| Mid     | 5775      | -0.60            | 30.00       | 30.00        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

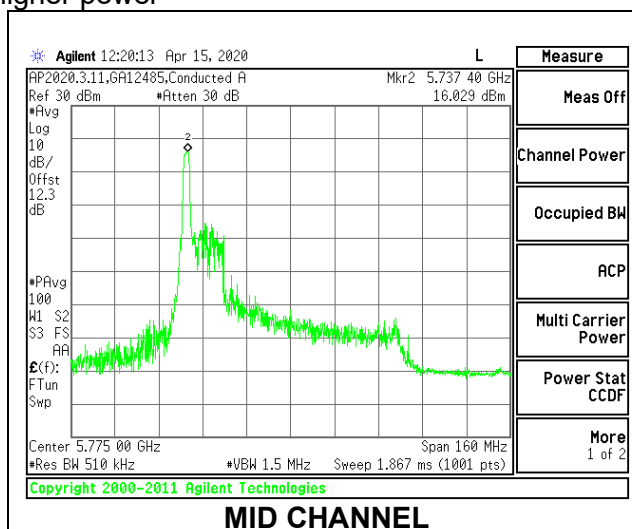
#### Output Power Results

| Channel | Frequency | Antenna 6 Meas Power | Total Corr'd Power | Power Limit | Power Margin |
|---------|-----------|----------------------|--------------------|-------------|--------------|
|         | (MHz)     | (dBm)                | (dBm)              | (dBm)       | (dB)         |
| Mid     | 5775      | 17.74                | 17.74              | 30.00       | -12.26       |

#### PSD Results

| Channel | Frequency | Antenna 6 Meas PSD | Total Corr'd PSD | PSD Limit    | PSD Margin |
|---------|-----------|--------------------|------------------|--------------|------------|
|         | (MHz)     | (dBm/500KHz)       | (dBm/500KHz)     | (dBm/500KHz) | (dB)       |
| Mid     | 5775      | 16.029             | 16.029           | 30.00        | -13.971    |

NOTE: PSD tested at higher power



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -0.60                        | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

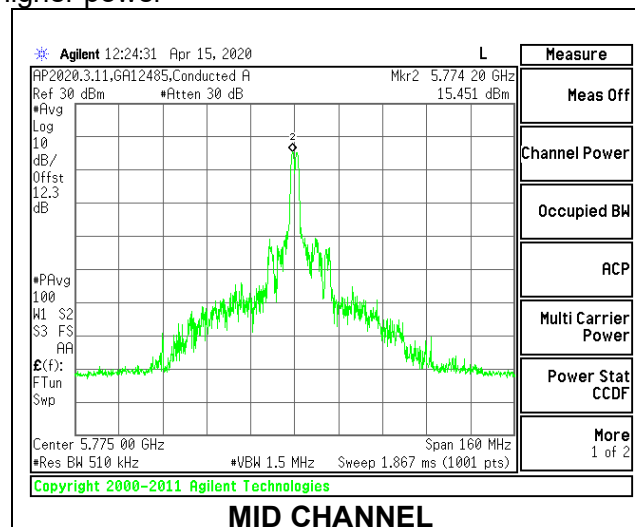
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 17.76                               | 17.76                             | 30.00                   | -12.24                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 15.451                                   | 15.451                                 | 30.00                        | -14.549               |

NOTE: PSD tested at higher power



**1TX ANT 6 MODE (FCC): 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency | Directional Gain | Power Limit | PSD Limit    |
|---------|-----------|------------------|-------------|--------------|
|         | (MHz)     | (dBi)            | (dBm)       | (dBm/500KHz) |
| Mid     | 5775      | -0.60            | 30.00       | 30.00        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

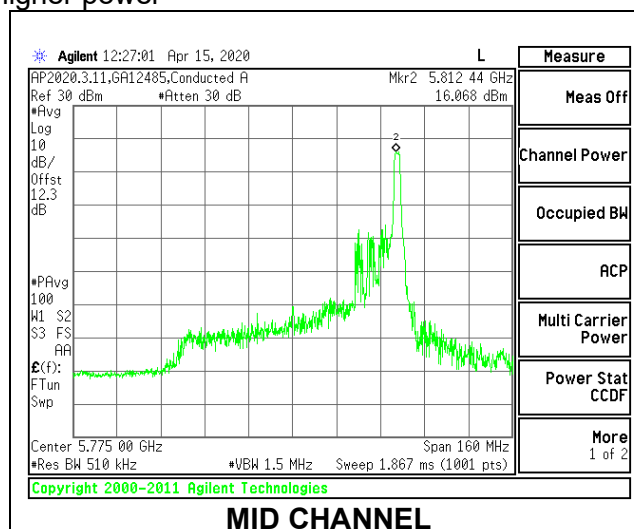
**Output Power Results**

| Channel | Frequency | Antenna 6 Meas Power | Total Corr'd Power | Power Limit | Power Margin |
|---------|-----------|----------------------|--------------------|-------------|--------------|
|         | (MHz)     | (dBm)                | (dBm)              | (dBm)       | (dB)         |
| Mid     | 5775      | 17.72                | 17.72              | 30.00       | -12.28       |

**PSD Results**

| Channel | Frequency | Antenna 6 Meas PSD | Total Corr'd PSD | PSD Limit    | PSD Margin |
|---------|-----------|--------------------|------------------|--------------|------------|
|         | (MHz)     | (dBm/500KHz)       | (dBm/500KHz)     | (dBm/500KHz) | (dB)       |
| Mid     | 5775      | 16.068             | 16.068           | 30.00        | -13.932    |

NOTE: PSD tested at higher power



**1TX ANT 6 MODE (FCC): 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency | Directional Gain | Power Limit | PSD Limit    |
|---------|-----------|------------------|-------------|--------------|
|         | (MHz)     | (dBi)            | (dBm)       | (dBm/500KHz) |
| Mid     | 5775      | -0.60            | 30.00       | 30.00        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

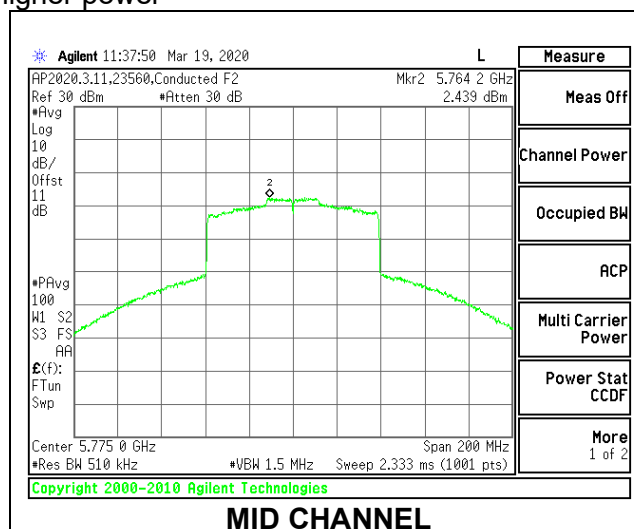
**Output Power Results**

| Channel | Frequency | Antenna 6 Meas Power | Total Corr'd Power | Power Limit | Power Margin |
|---------|-----------|----------------------|--------------------|-------------|--------------|
|         | (MHz)     | (dBm)                | (dBm)              | (dBm)       | (dB)         |
| Mid     | 5775      | 17.75                | 17.75              | 30.00       | -12.25       |

**PSD Results**

| Channel | Frequency | Antenna 6 Meas PSD | Total Corr'd PSD | PSD Limit    | PSD Margin |
|---------|-----------|--------------------|------------------|--------------|------------|
|         | (MHz)     | (dBm/500KHz)       | (dBm/500KHz)     | (dBm/500KHz) | (dB)       |
| Mid     | 5775      | 2.439              | 2.439            | 30.00        | -27.561    |

NOTE: PSD tested at higher power



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency | Directional Gain | Power Limit | PSD Limit    |
|---------|-----------|------------------|-------------|--------------|
|         | (MHz)     | (dBi)            | (dBm)       | (dBm/500KHz) |
| Mid     | 5775      | -1.70            | 30.00       | 30.00        |

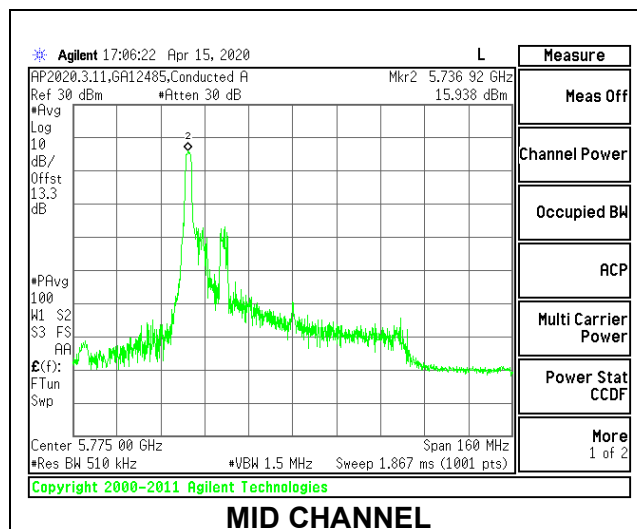
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency | Antenna 5 Meas Power | Total Corr'd Power | Power Limit | Power Margin |
|---------|-----------|----------------------|--------------------|-------------|--------------|
|         | (MHz)     | (dBm)                | (dBm)              | (dBm)       | (dB)         |
| Mid     | 5775      | 21.23                | 21.23              | 30.00       | -8.77        |

**PSD Results**

| Channel | Frequency | Antenna 5 Meas PSD | Total Corr'd PSD | PSD Limit    | PSD Margin |
|---------|-----------|--------------------|------------------|--------------|------------|
|         | (MHz)     | (dBm/500KHz)       | (dBm/500KHz)     | (dBm/500KHz) | (dB)       |
| Mid     | 5775      | 15.938             | 15.938           | 30.00        | -14.062    |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -1.70                        | 30.00                   | 30.00                        |

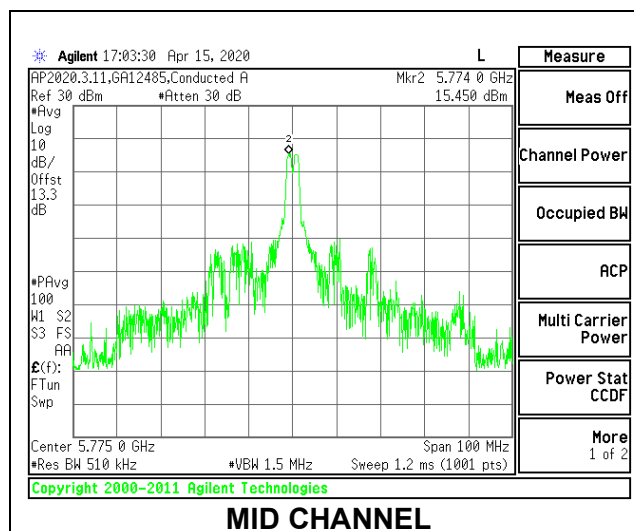
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 21.19                               | 21.19                             | 30.00                   | -8.81                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 15.450                                   | 15.450                                 | 30.00                        | -14.550               |



**1TX ANT 5 MODE (FCC): 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -1.70                        | 30.00                   | 30.00                        |

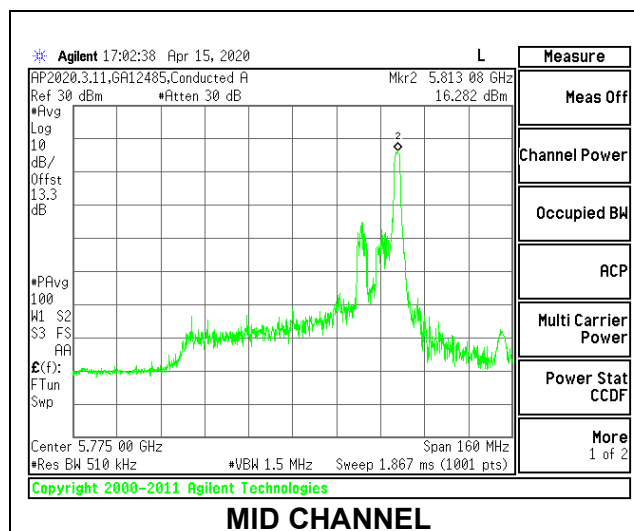
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 21.22                               | 21.22                             | 30.00                   | -8.78                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 16.282                                   | 16.282                                 | 30.00                        | -13.718               |



**1TX ANT 5 MODE (FCC): 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -1.70                        | 30.00                   | 30.00                        |

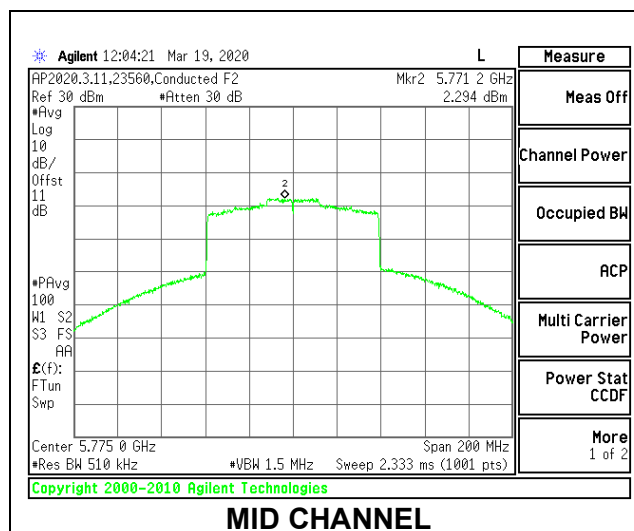
|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 20.21                               | 20.21                             | 30.00                   | -9.79                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 2.294                                    | 2.294                                  | 30.00                        | -27.706               |



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 0**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

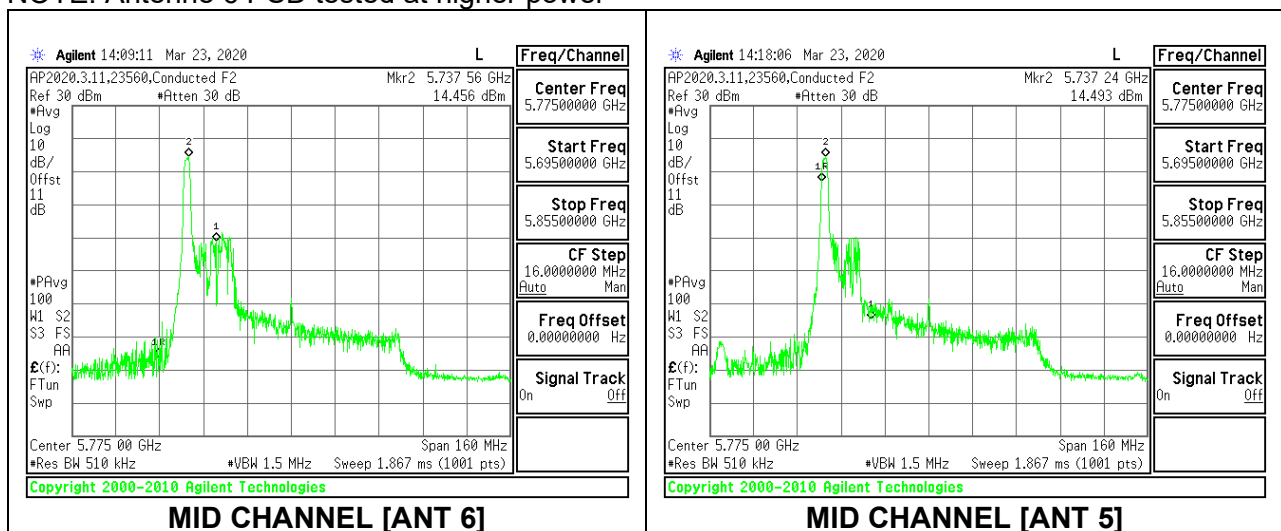
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 17.65                               | 19.66                               | 21.78                             | 30.00                   | -8.22                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 14.456                                   | 14.493                                   | 17.485                                 | 30.00                        | -12.515               |

NOTE: Antenne 6 PSD tested at higher power



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 18**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

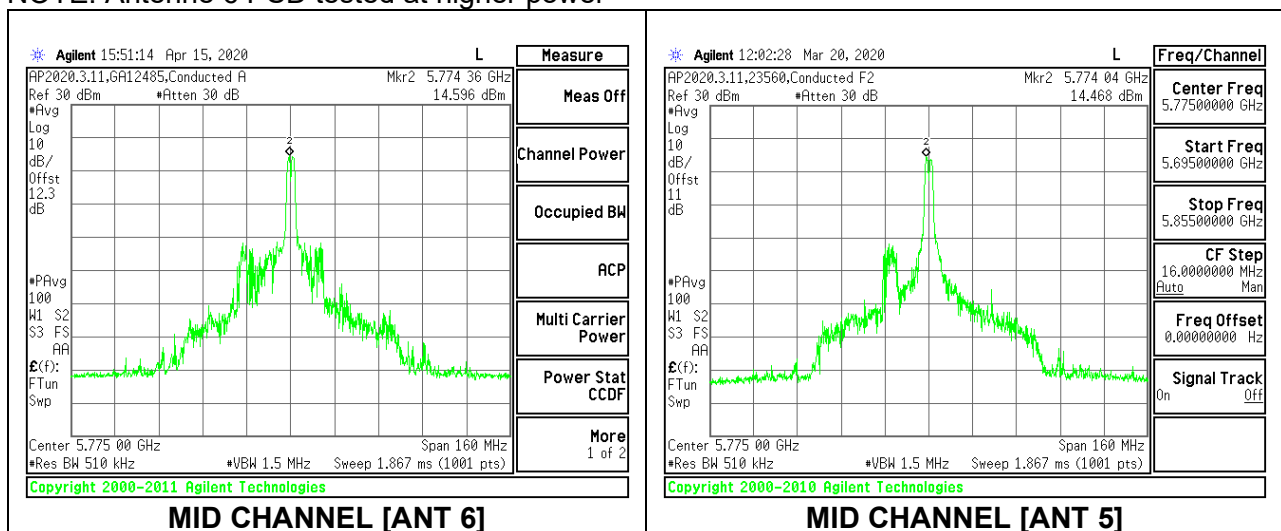
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 17.68                               | 19.64                               | 21.78                             | 30.00                   | -8.22                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 14.596                                   | 14.468                                   | 17.543                                 | 30.00                        | -12.457               |

NOTE: Antenne 6 PSD tested at higher power



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 26 Tones, RU Index 36**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

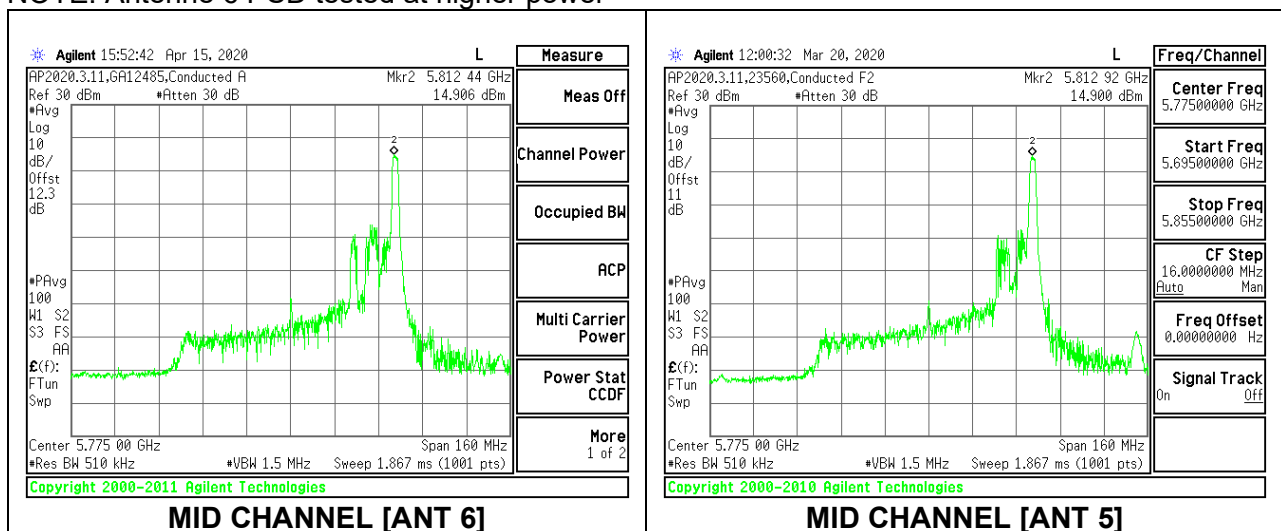
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 17.67                               | 19.65                               | 21.78                             | 30.00                   | -8.22                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 14.906                                   | 14.900                                   | 17.913                                 | 30.00                        | -12.087               |

NOTE: Antenne 6 PSD tested at higher power



**2TX ANT 6 + ANT 5 OFDMA MODE (FCC): 996 Tones, RU Index 67**

|                |            |
|----------------|------------|
| Test Engineer: | 23560      |
| Test Date:     | 08/05/2020 |

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>For Power<br>(dBi) | Directional<br>Gain<br>For PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/500KHz) |
|---------|--------------------|-------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Mid     | 5775               | -1.12                                     | 1.88                                    | 30.00                   | 30.00                        |

|                    |      |                                        |
|--------------------|------|----------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|----------------------------------------|

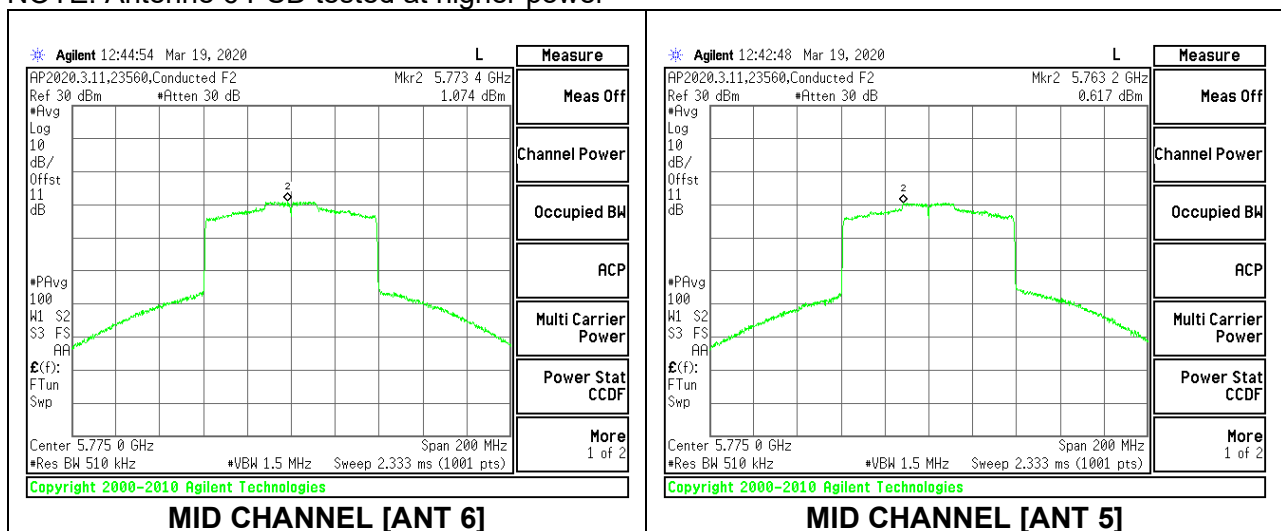
**Output Power Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>Power<br>(dBm) | Antenna 5<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 17.70                               | 19.74                               | 21.85                             | 30.00                   | -8.15                   |

**PSD Results**

| Channel | Frequency<br>(MHz) | Antenna 6<br>Meas<br>PSD<br>(dBm/500KHz) | Antenna 5<br>Meas<br>PSD<br>(dBm/500KHz) | Total<br>Corr'd<br>PSD<br>(dBm/500KHz) | PSD<br>Limit<br>(dBm/500KHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|------------------------------------------|------------------------------------------|----------------------------------------|------------------------------|-----------------------|
| Mid     | 5775               | 1.074                                    | 0.617                                    | 3.862                                  | 30.00                        | -26.138               |

NOTE: Antenne 6 PSD tested at higher power



## **10. SETUP PHOTOS**

Please refer to 13259315-EP1V1 for setup photos

## **END OF TEST REPORT**