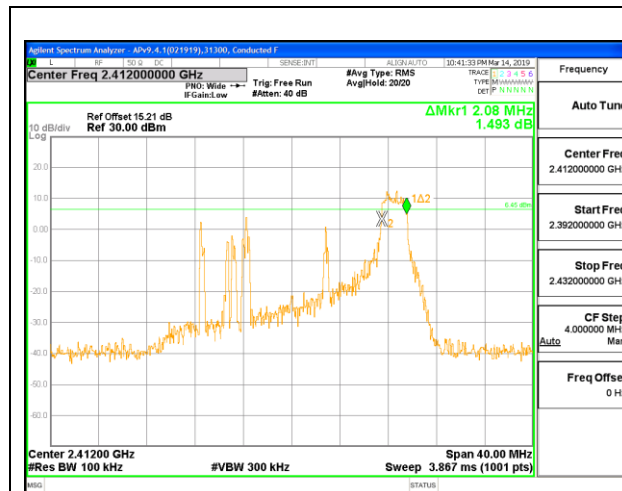
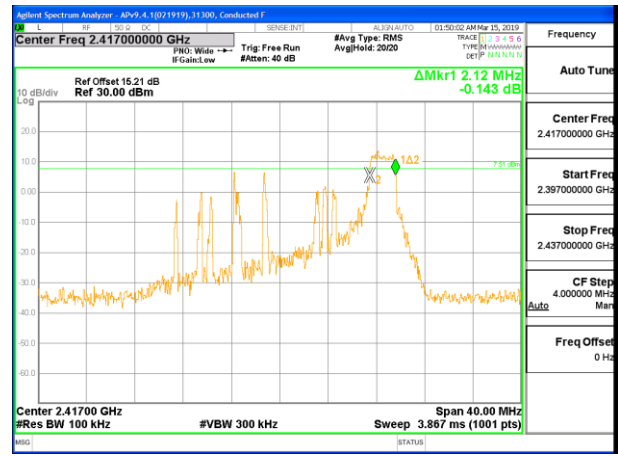
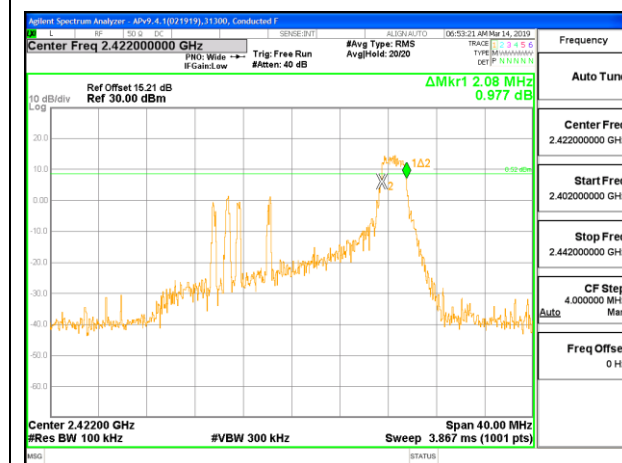




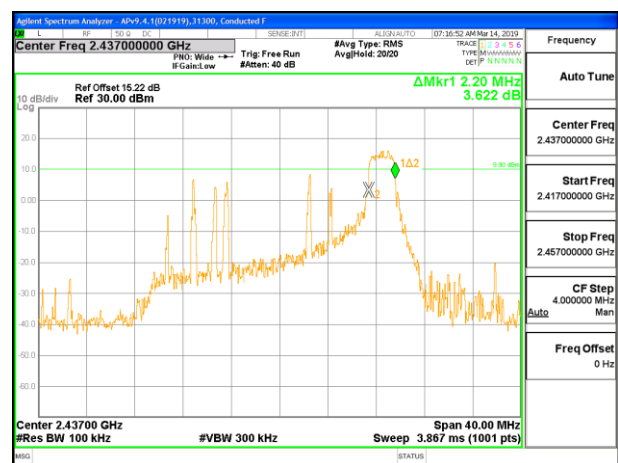
LOW CHANNEL 1



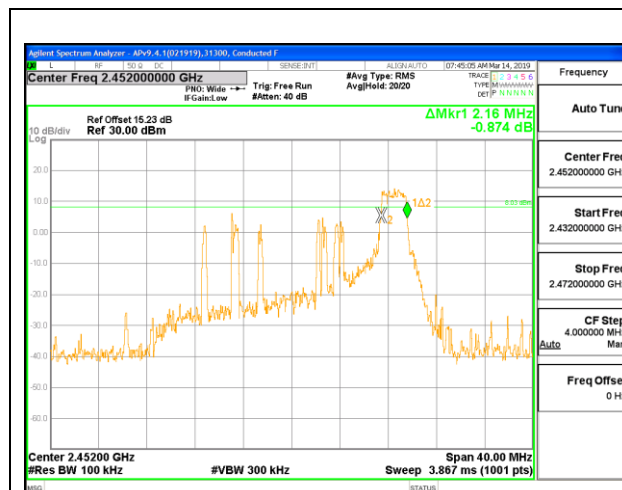
LOW CHANNEL 2



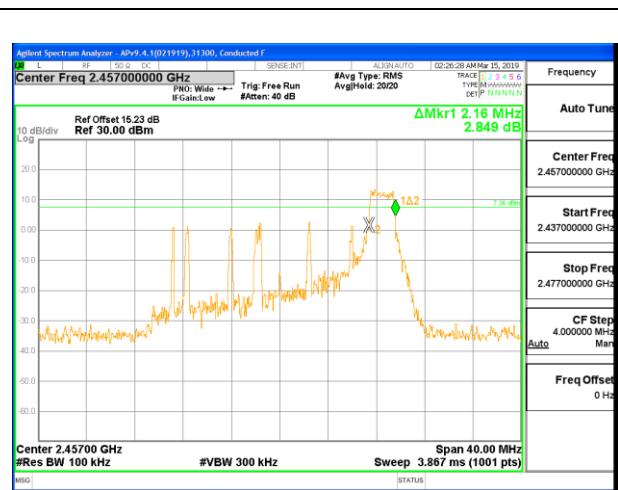
LOW CHANNEL 3



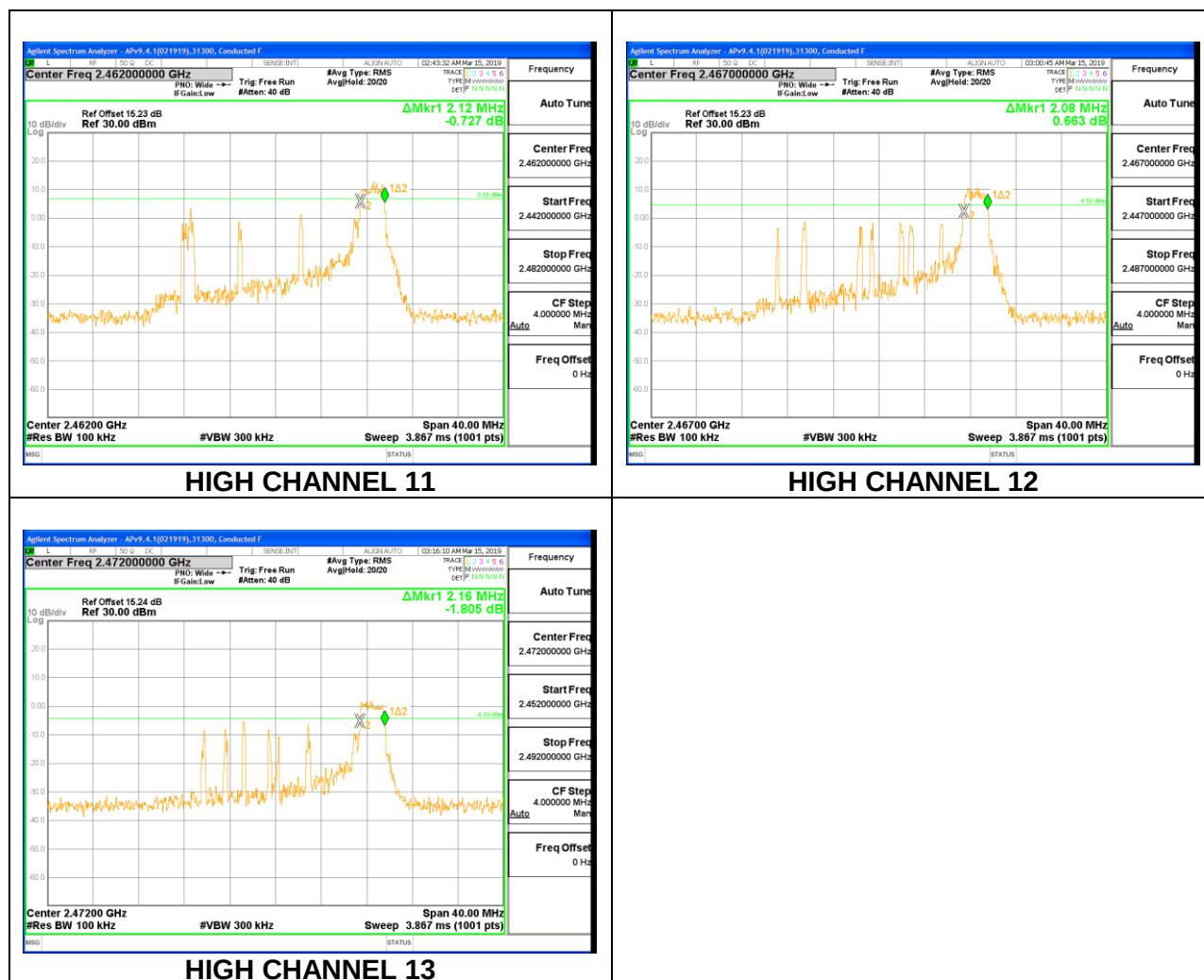
MID CHANNEL 6



HIGH CHANNEL 9

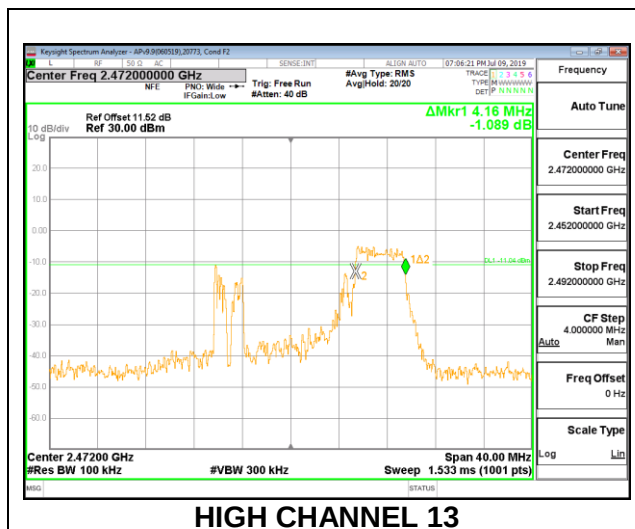


HIGH CHANNEL 10



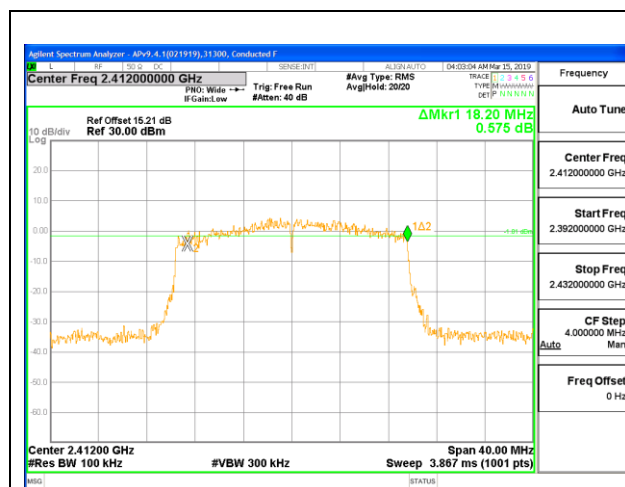
**Antenna 5, LEGACY SISO MODE: 52-Tones, RU index 40**

| Channel | Frequency | 6dB Bandwidth | Minimum Limit |
|---------|-----------|---------------|---------------|
|         | (MHz)     | (MHz)         | (MHz)         |
| High 13 | 2472      | 4.16          | 0.5           |

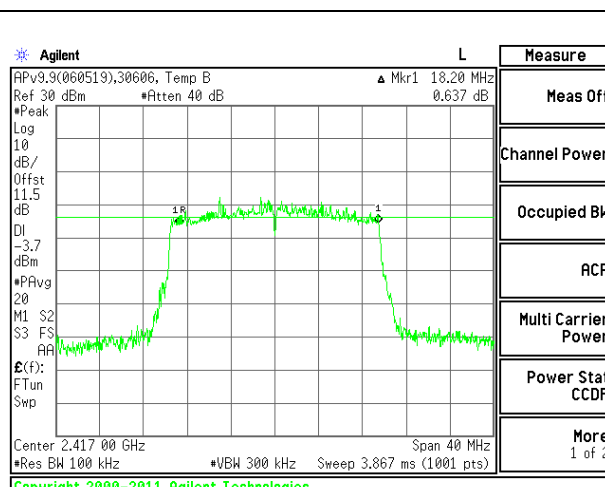


**Antenna 5, LEGACY SISO MODE: 242-Tones, RU index 61**

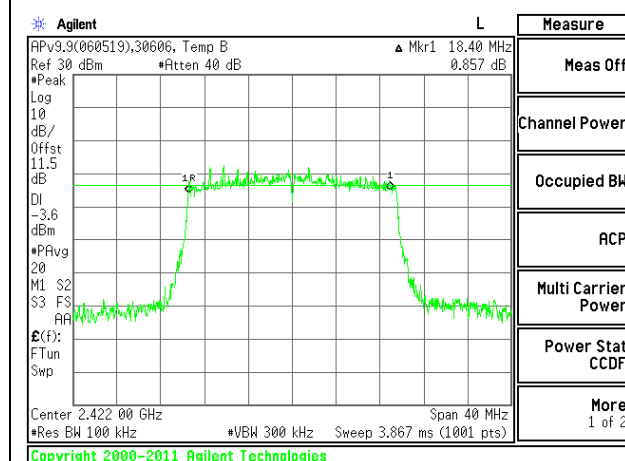
| Channel | Frequency | 6dB Bandwidth | Minimum Limit |
|---------|-----------|---------------|---------------|
|         | (MHz)     | (MHz)         | (MHz)         |
| Low 1   | 2412      | 18.20         | 0.5           |
| Low 2   | 2417      | 18.20         | 0.5           |
| Low 3   | 2422      | 18.40         | 0.5           |
| Mid 6   | 2437      | 18.84         | 0.5           |
| High 9  | 2452      | 18.12         | 0.5           |
| High 10 | 2457      | 18.36         | 0.5           |
| High 11 | 2462      | 18.72         | 0.5           |
| High 12 | 2467      | 18.44         | 0.5           |
| High 13 | 2472      | 18.04         | 0.5           |



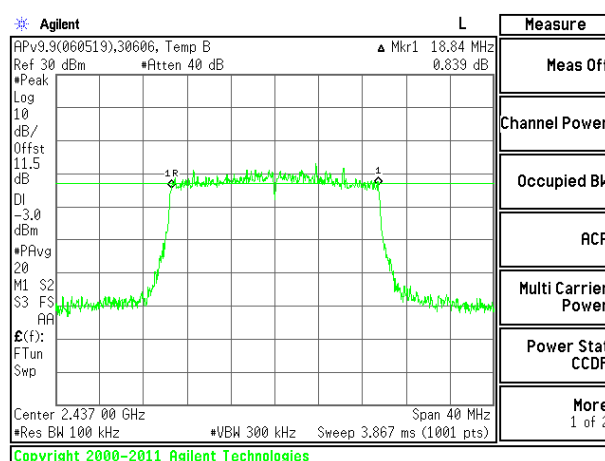
LOW CHANNEL 1



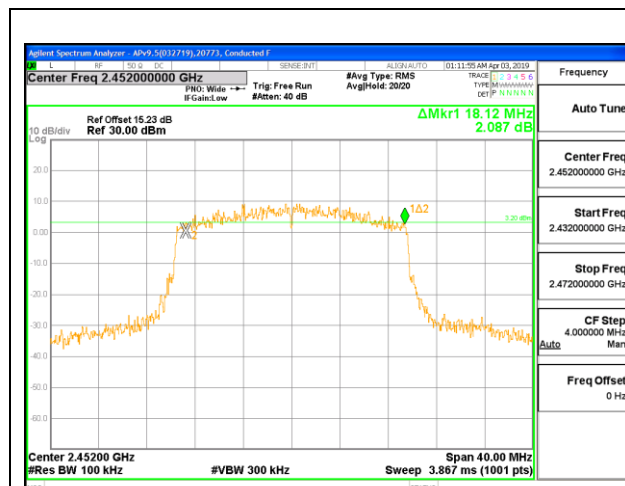
LOW CHANNEL 2



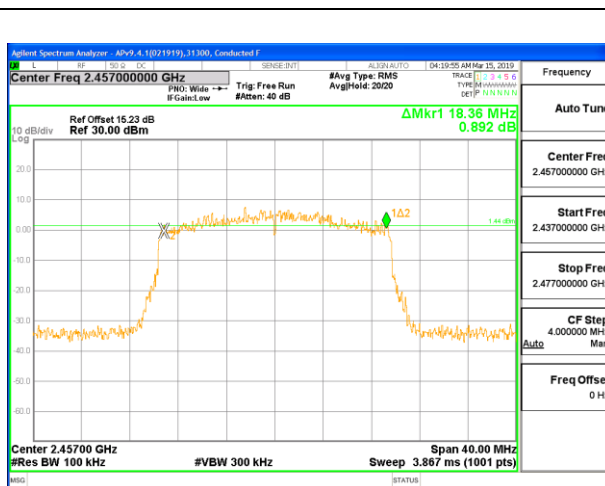
LOW CHANNEL 3



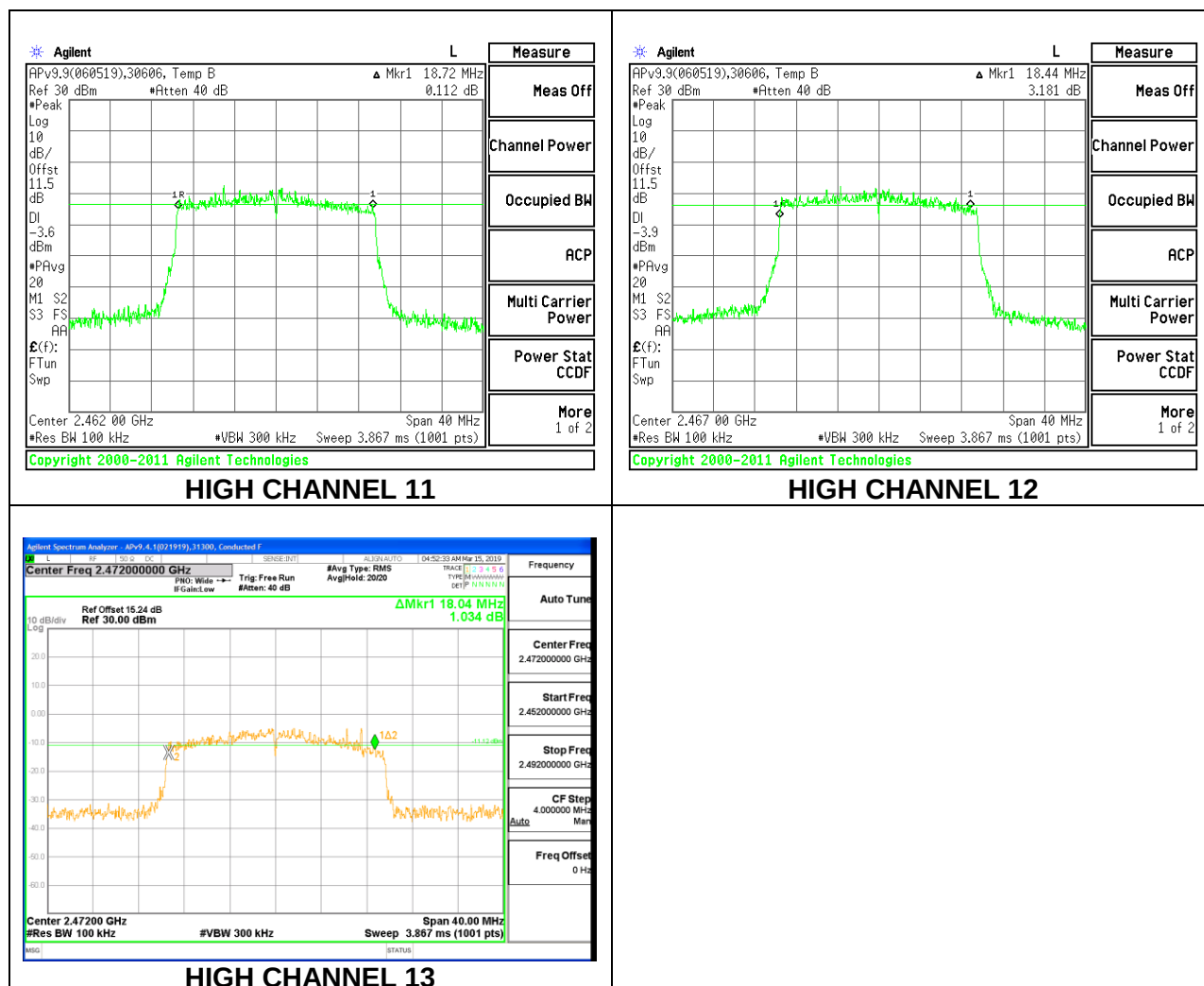
MID CHANNEL 6



HIGH CHANNEL 9



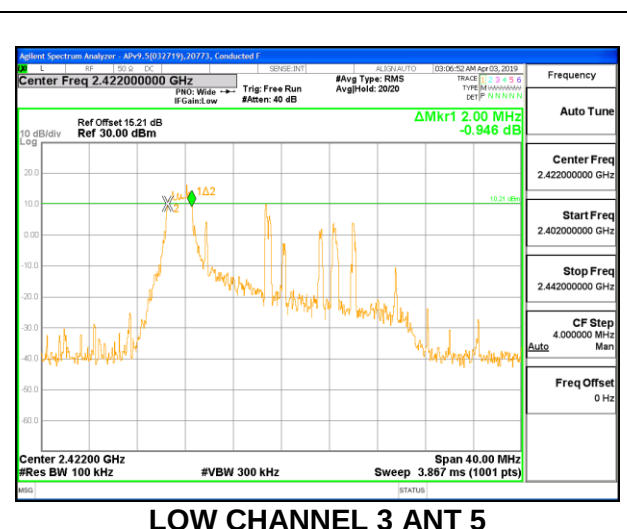
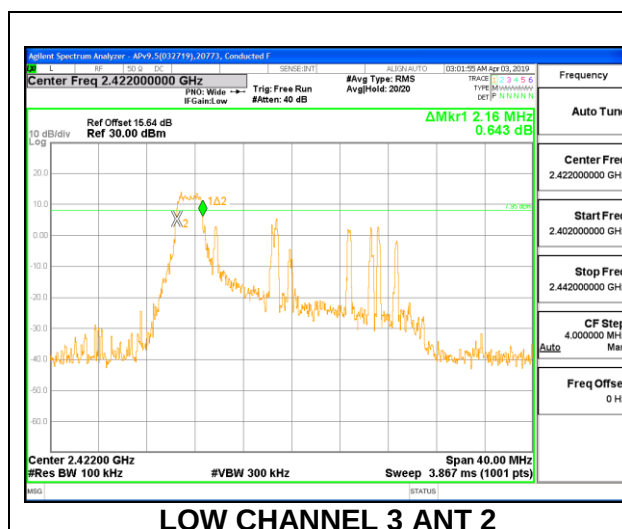
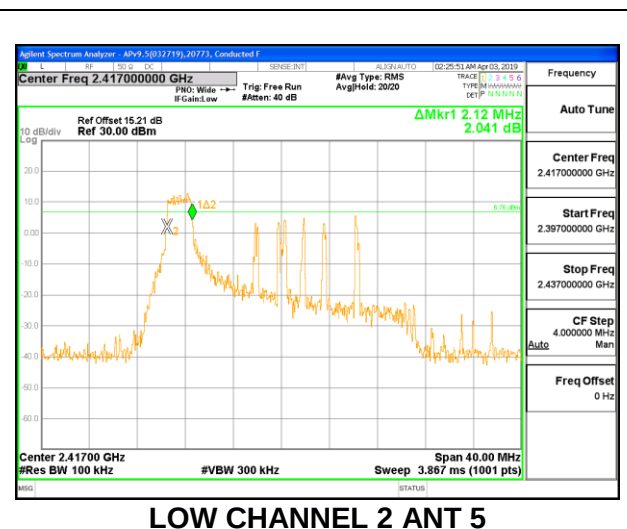
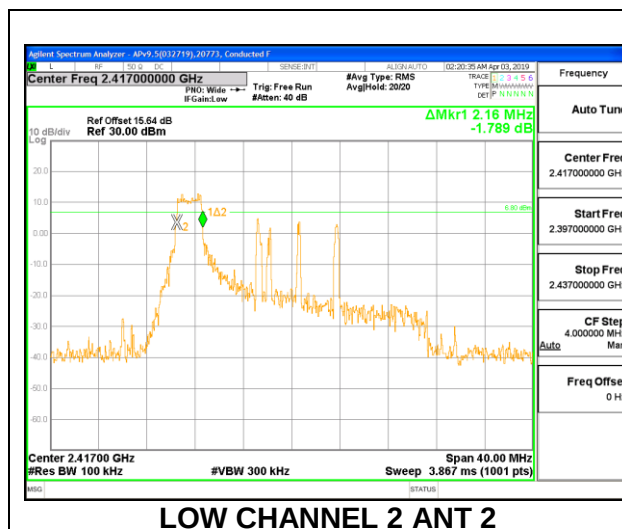
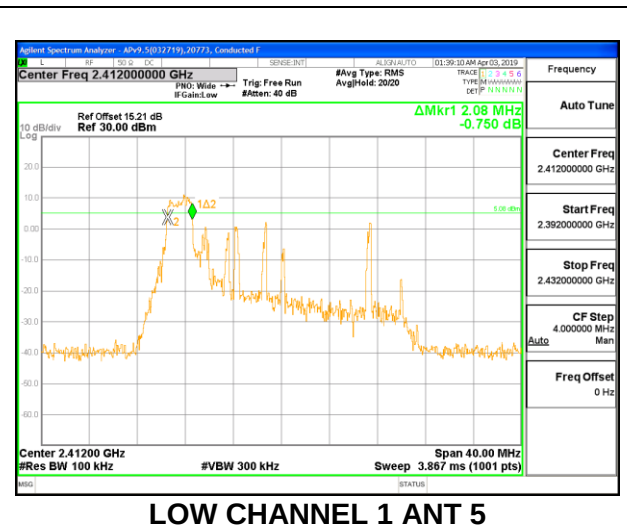
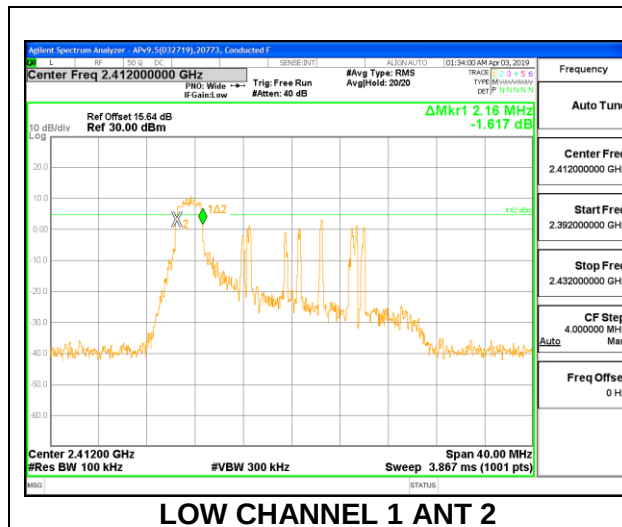
HIGH CHANNEL 10



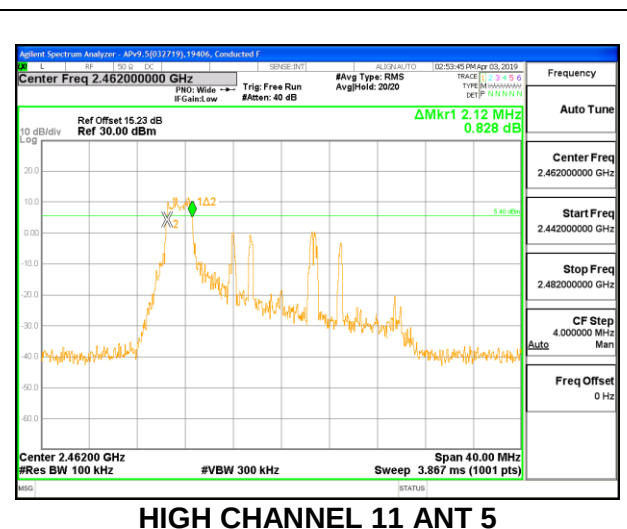
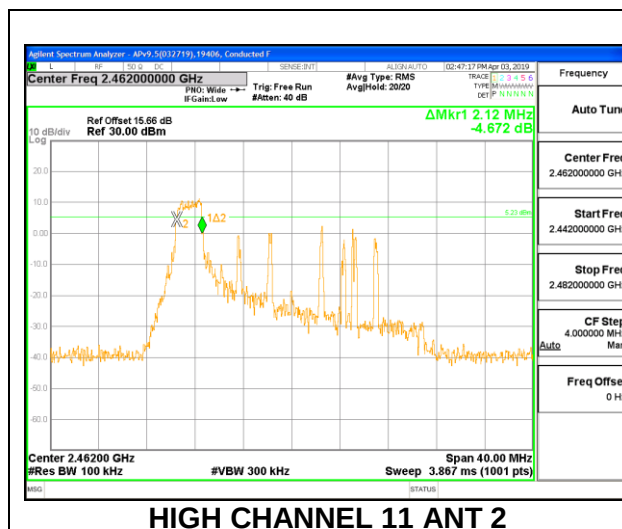
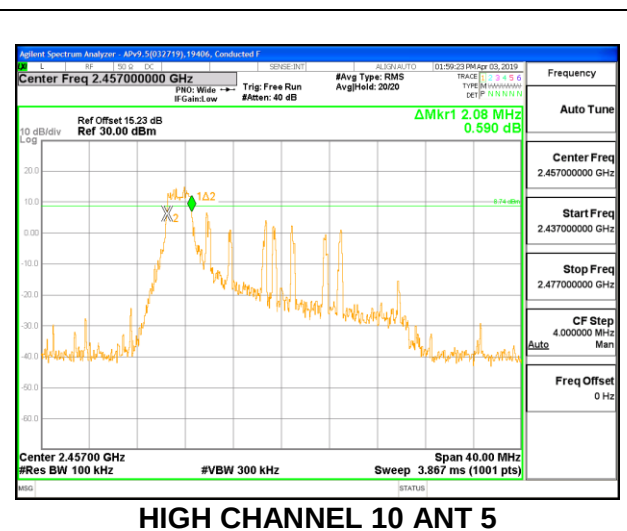
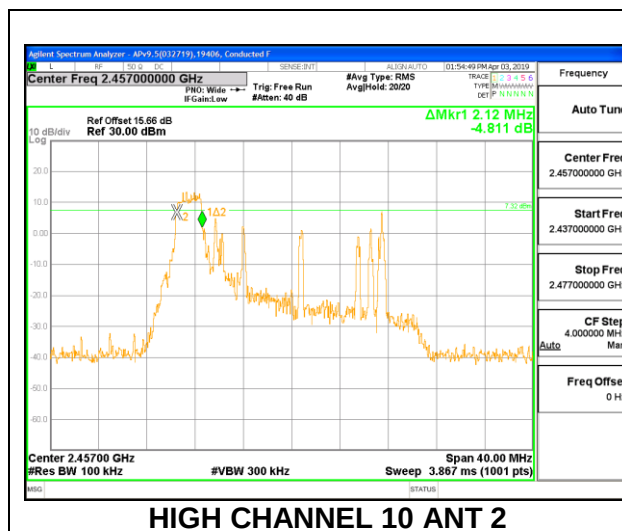
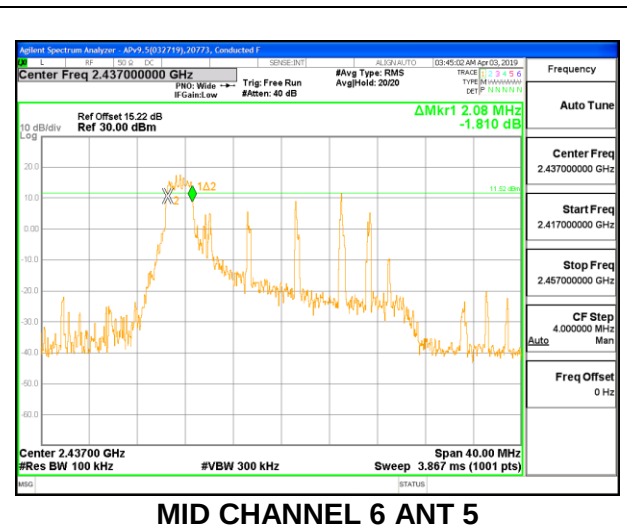
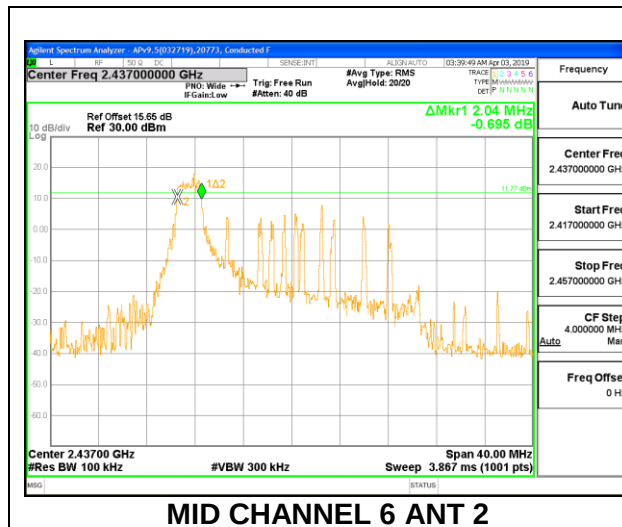
### 8.3.5. 802.11ax HE20 OFDMA MODE 2TX

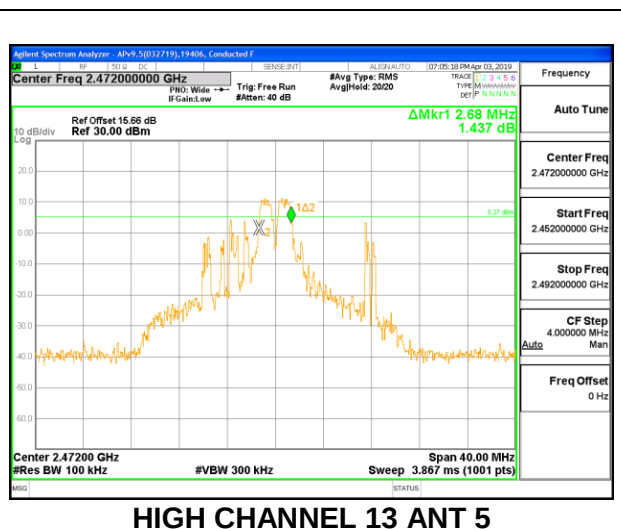
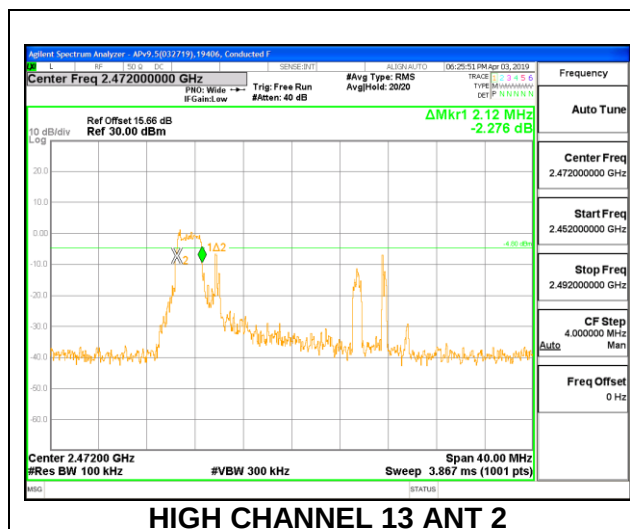
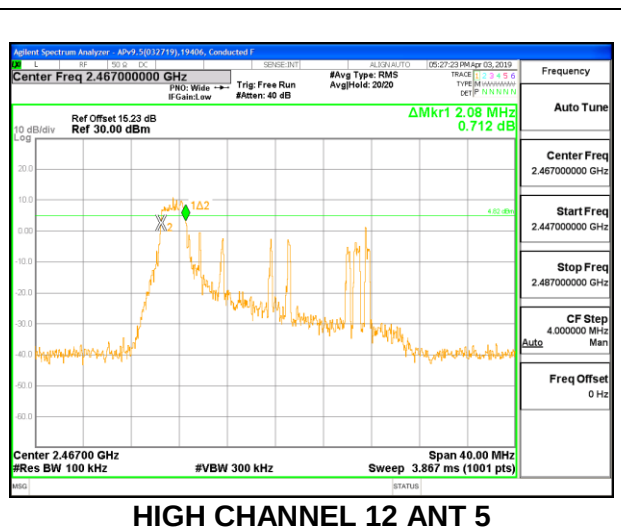
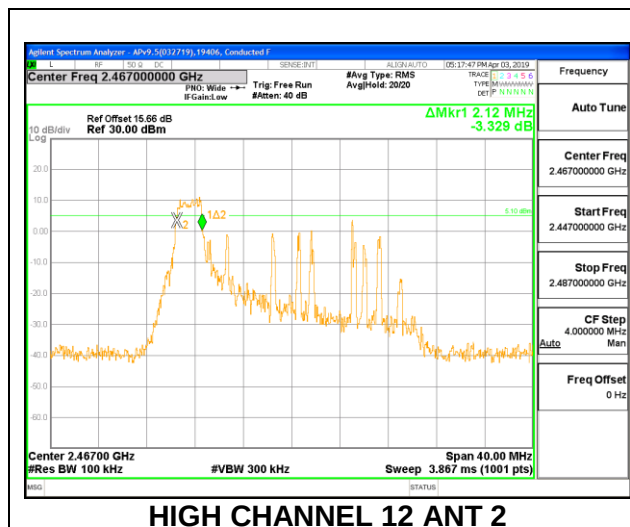
#### Antenna 2 + Antenna 5 2TX MODE: 26-Tones, RU Index 0

| Channel | Frequency<br>(MHz) | 6dB Bandwidth<br>Ant 2<br>(MHz) | 6dB Bandwidth<br>Ant 5<br>(MHz) | Minimum Limit<br>(MHz) |
|---------|--------------------|---------------------------------|---------------------------------|------------------------|
| Low 1   | 2412               | 2.16                            | 2.08                            | 0.5                    |
| Low 2   | 2417               | 2.16                            | 2.12                            | 0.5                    |
| Low 3   | 2422               | 2.16                            | 2.00                            | 0.5                    |
| Mid 6   | 2437               | 2.04                            | 2.08                            | 0.5                    |
| High 10 | 2457               | 2.12                            | 2.08                            | 0.5                    |
| High 11 | 2462               | 2.12                            | 2.12                            | 0.5                    |
| High 12 | 2467               | 2.12                            | 2.08                            | 0.5                    |
| High 13 | 2472               | 2.12                            | 2.68                            | 0.5                    |



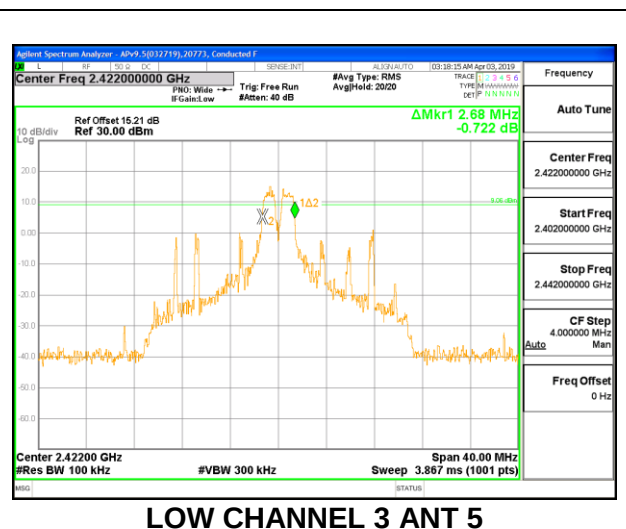
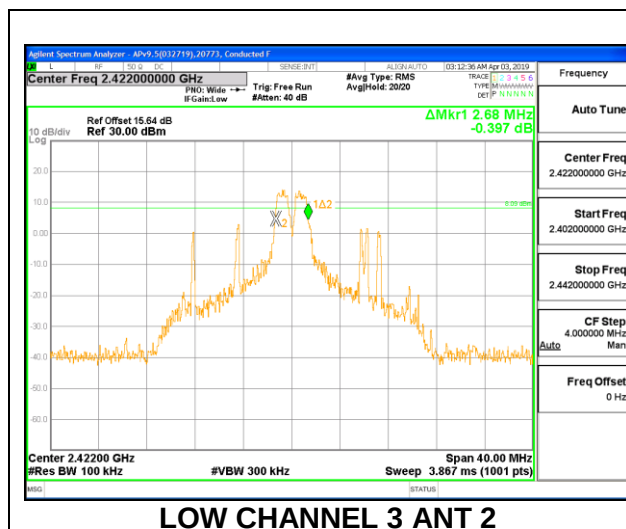
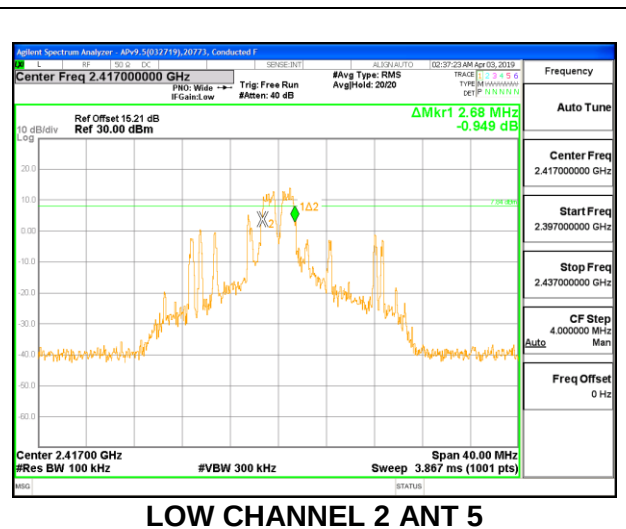
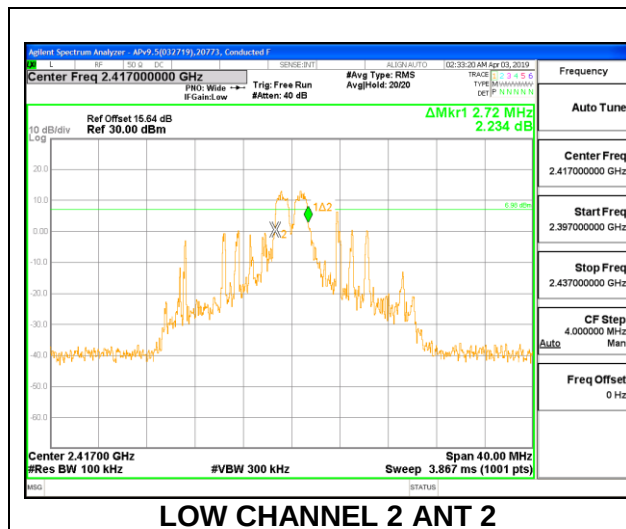
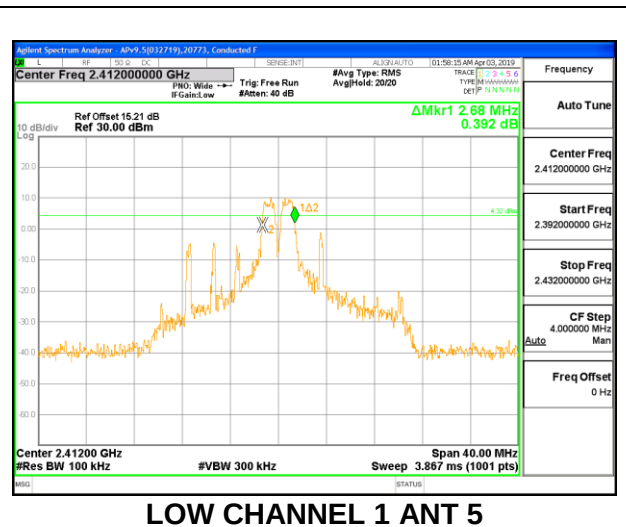
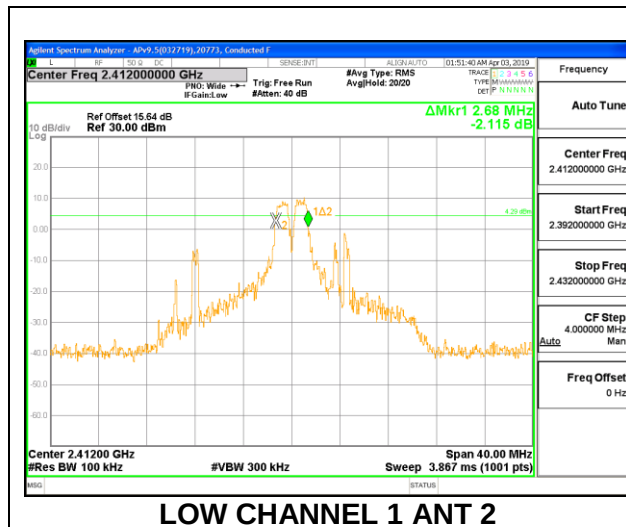


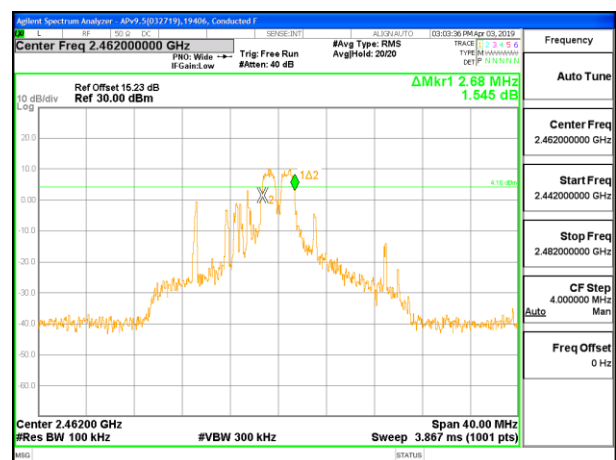
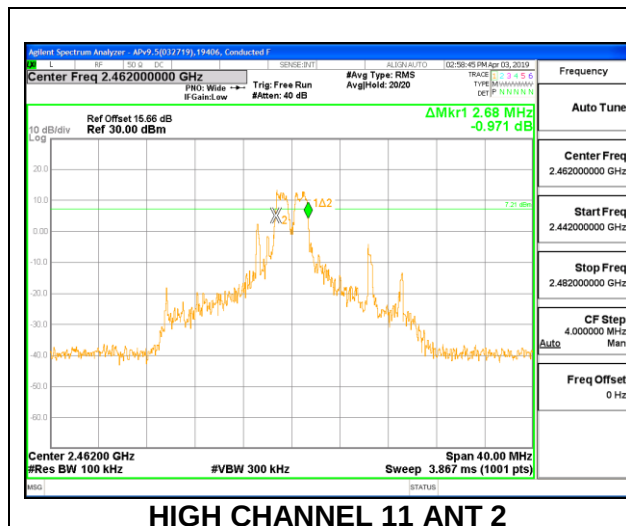
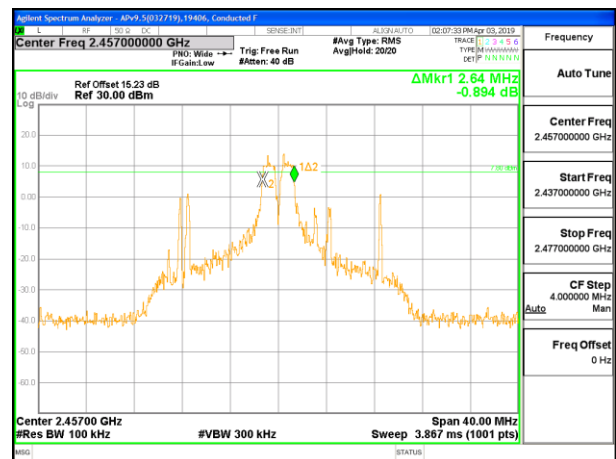
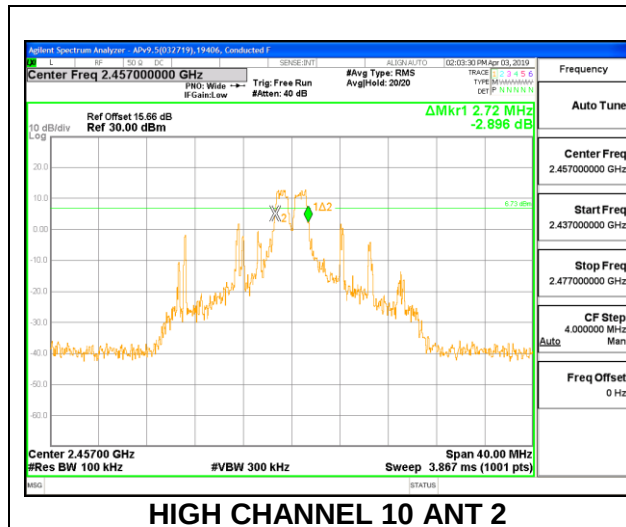
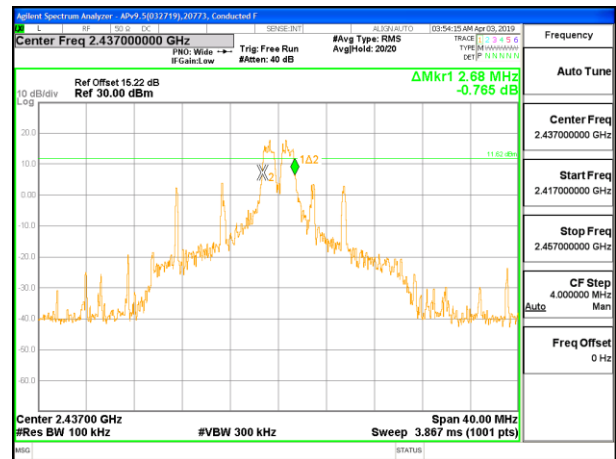
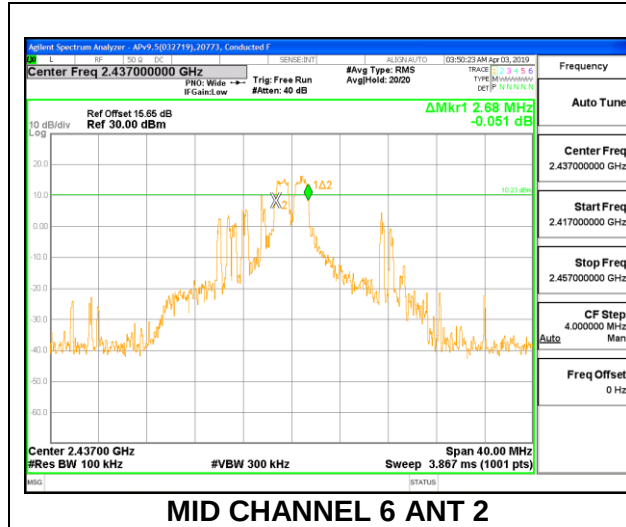


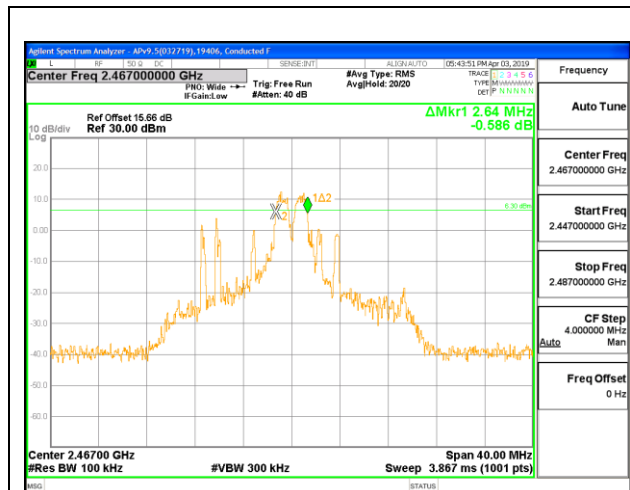


**Antenna 2 + Antenna 5 2TX MODE: 26-Tones, RU Index 4**

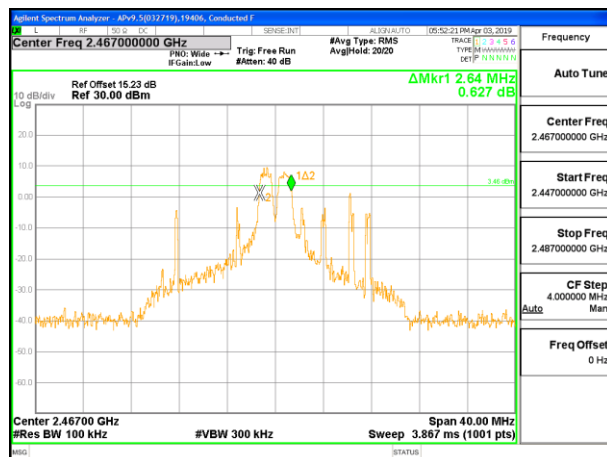
| Channel | Frequency<br>(MHz) | 6dB Bandwidth<br>ANT 2<br>(MHz) | 6dB Bandwidth<br>ANT 5<br>(MHz) | Minimum Limit<br>(MHz) |
|---------|--------------------|---------------------------------|---------------------------------|------------------------|
| Low 1   | 2412               | 2.68                            | 2.68                            | 0.5                    |
| Low 2   | 2417               | 2.72                            | 2.68                            | 0.5                    |
| Low 3   | 2422               | 2.68                            | 2.68                            | 0.5                    |
| Mid 6   | 2437               | 2.68                            | 2.68                            | 0.5                    |
| High 10 | 2457               | 2.72                            | 2.64                            | 0.5                    |
| High 11 | 2462               | 2.68                            | 2.68                            | 0.5                    |
| High 12 | 2467               | 2.64                            | 2.64                            | 0.5                    |
| High 13 | 2472               | 2.68                            | 2.64                            | 0.5                    |



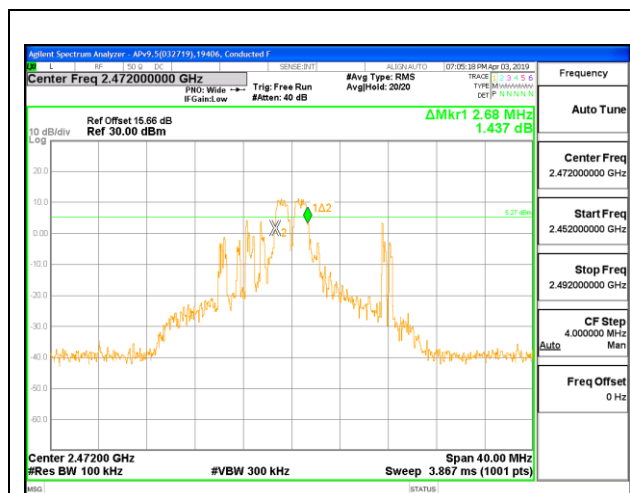




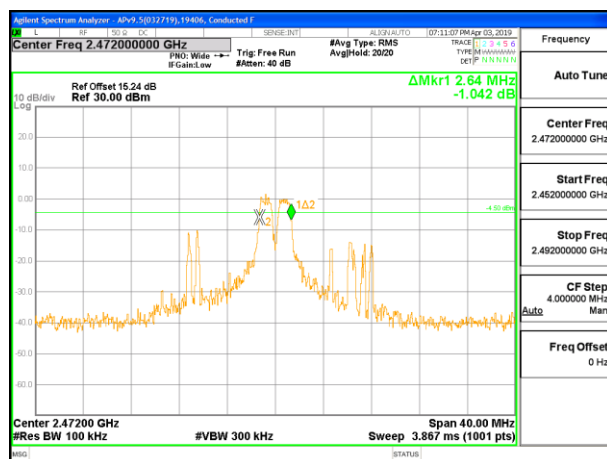
HIGH CHANNEL 12 ANT 2



HIGH CHANNEL 12 ANT 5



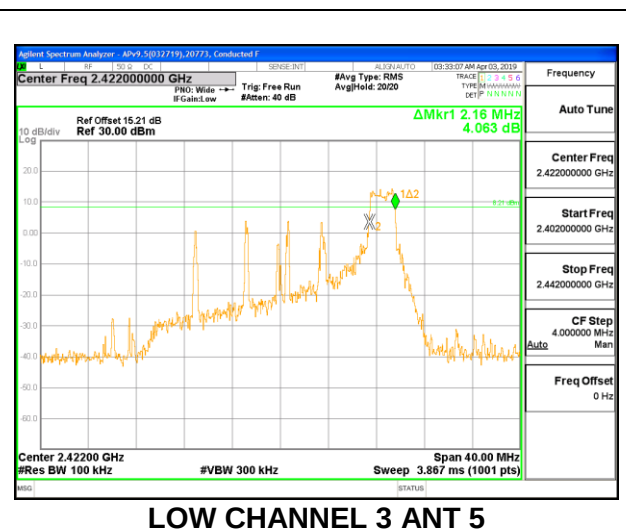
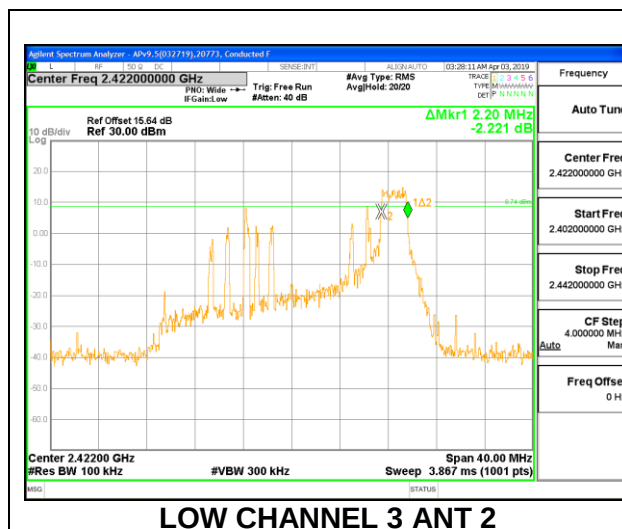
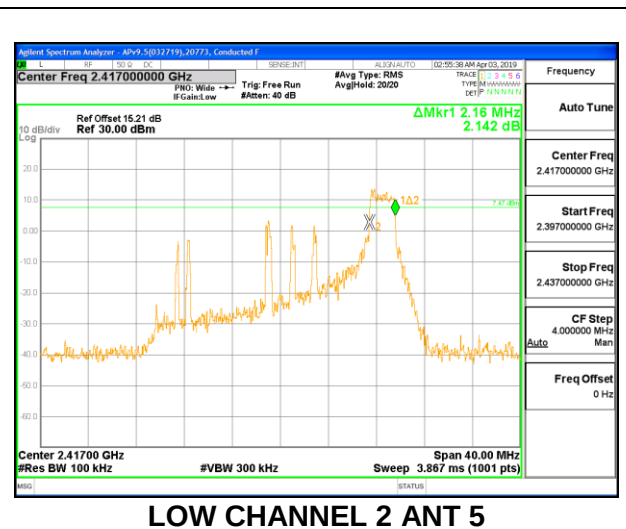
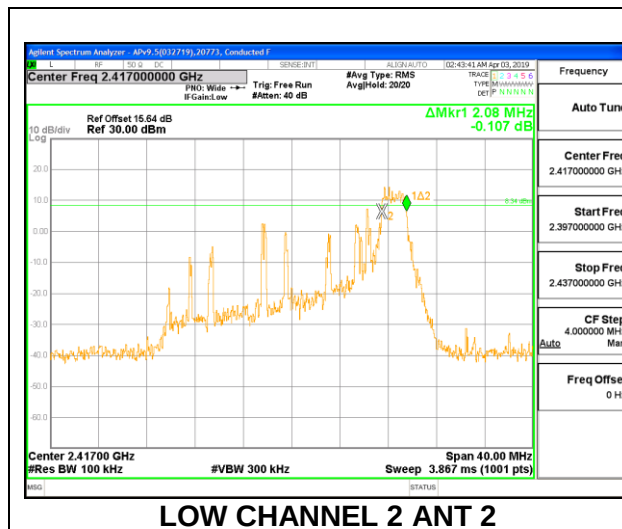
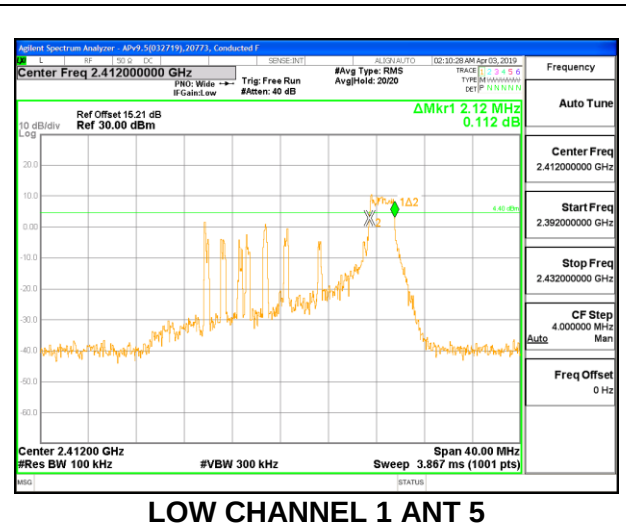
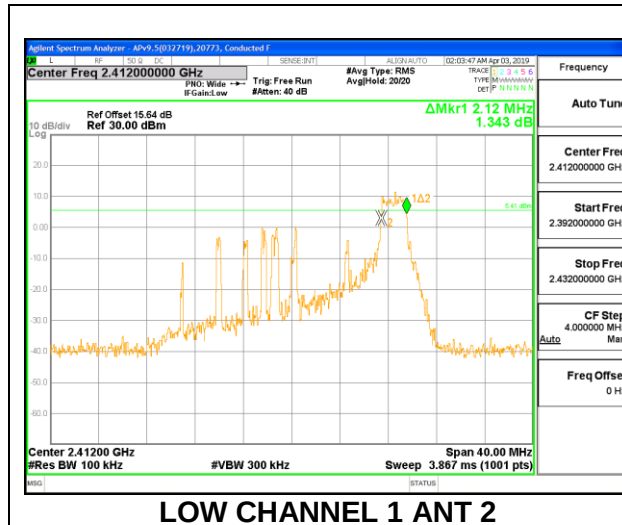
HIGH CHANNEL 13 ANT 2



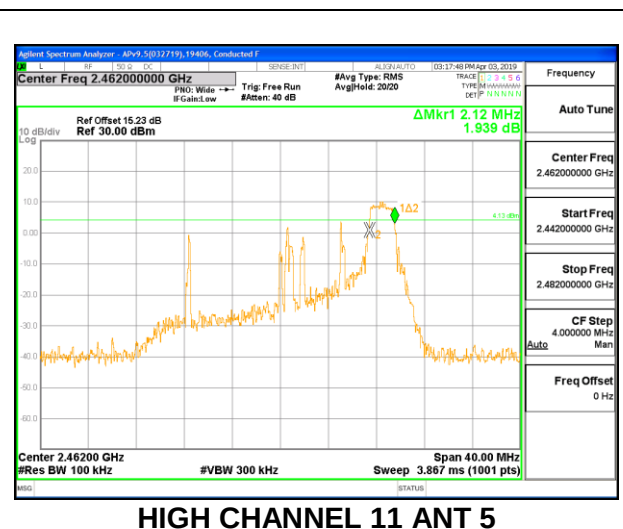
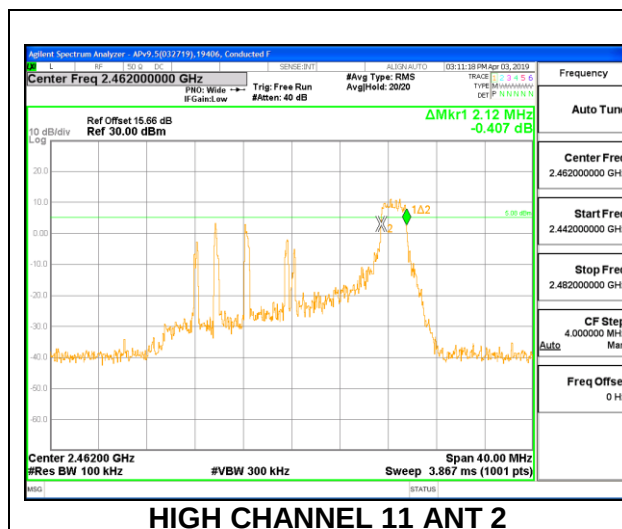
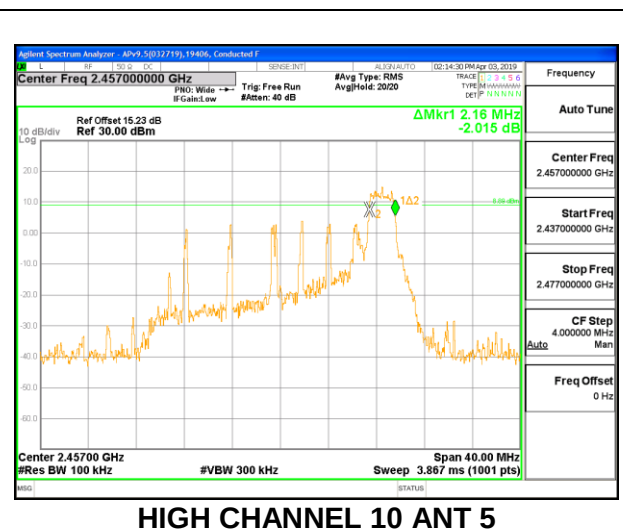
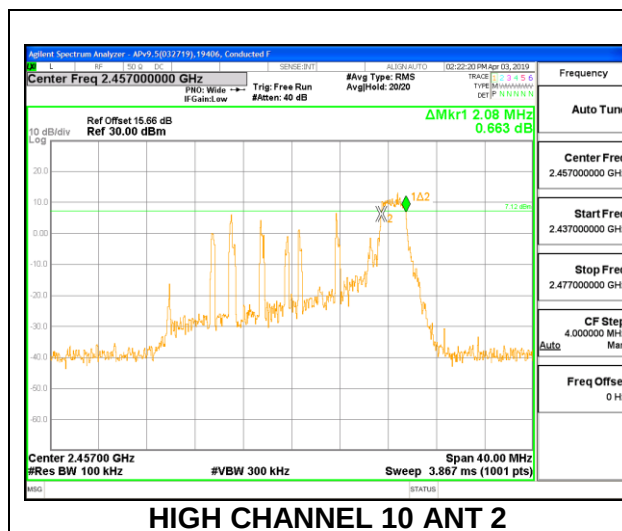
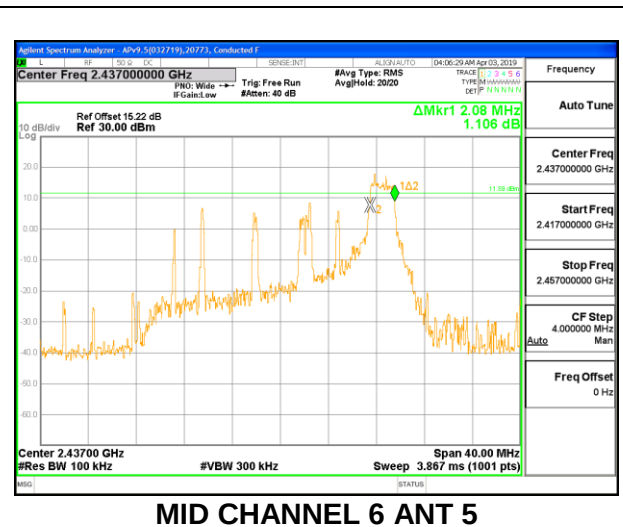
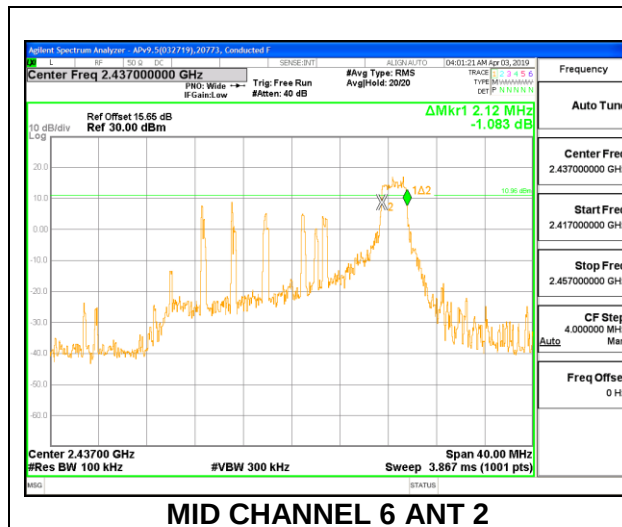
HIGH CHANNEL 13 ANT 5

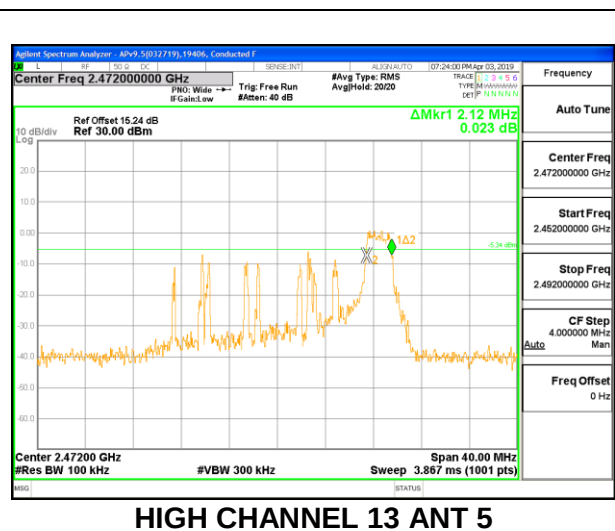
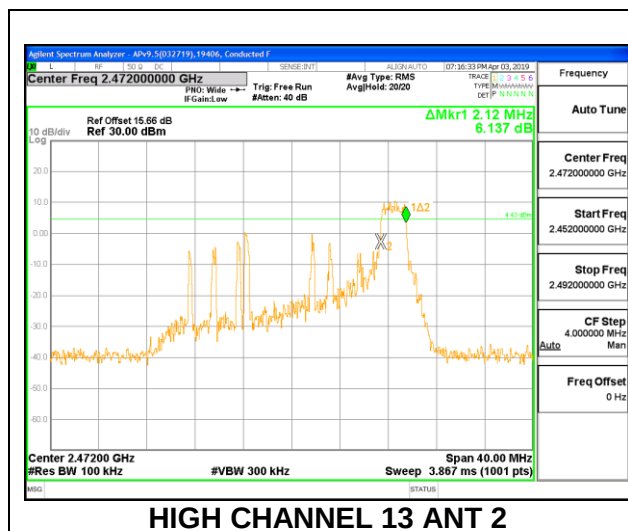
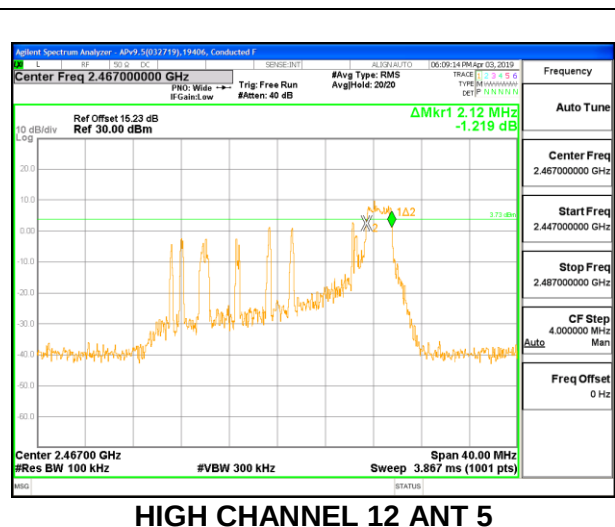
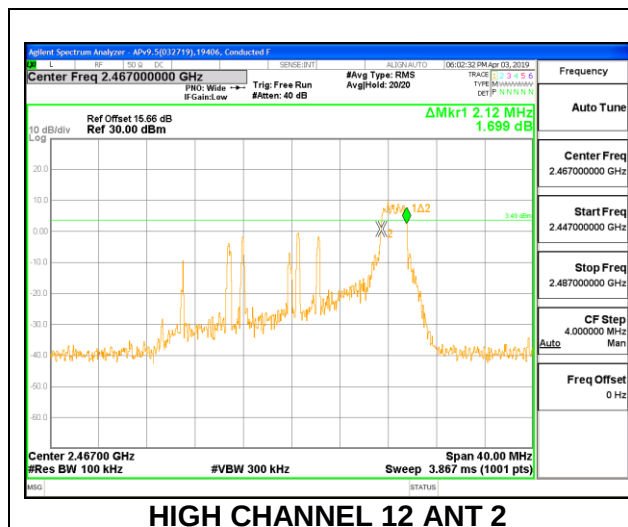
**Antenna 2 + Antenna 5 2TX MODE: 26-Tones, RU Index 8**

| Channel | Frequency<br>(MHz) | 6dB Bandwidth<br>ANT 2<br>(MHz) | 6dB Bandwidth<br>ANT 5<br>(MHz) | Minimum Limit<br>(MHz) |
|---------|--------------------|---------------------------------|---------------------------------|------------------------|
| Low 1   | 2412               | 2.12                            | 2.12                            | 0.5                    |
| Low 2   | 2417               | 2.08                            | 2.16                            | 0.5                    |
| Low 3   | 2422               | 2.20                            | 2.16                            | 0.5                    |
| Mid 6   | 2437               | 2.12                            | 2.08                            | 0.5                    |
| High 10 | 2457               | 2.08                            | 2.16                            | 0.5                    |
| High 11 | 2462               | 2.12                            | 2.12                            | 0.5                    |
| High 12 | 2467               | 2.12                            | 2.12                            | 0.5                    |
| High 13 | 2472               | 2.12                            | 2.12                            | 0.5                    |



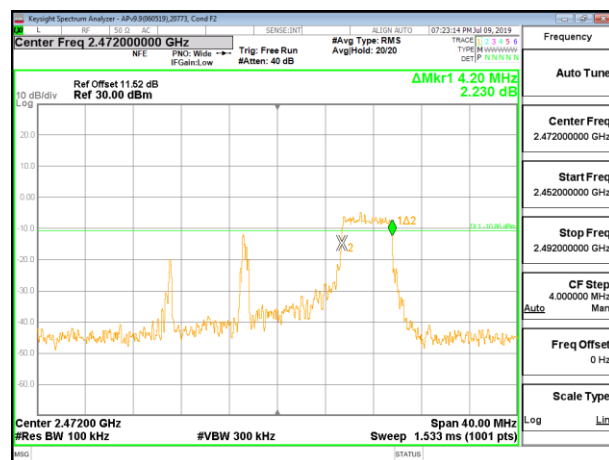
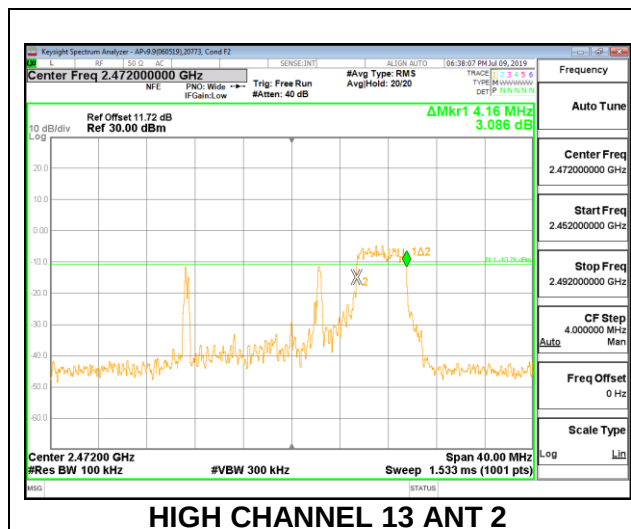






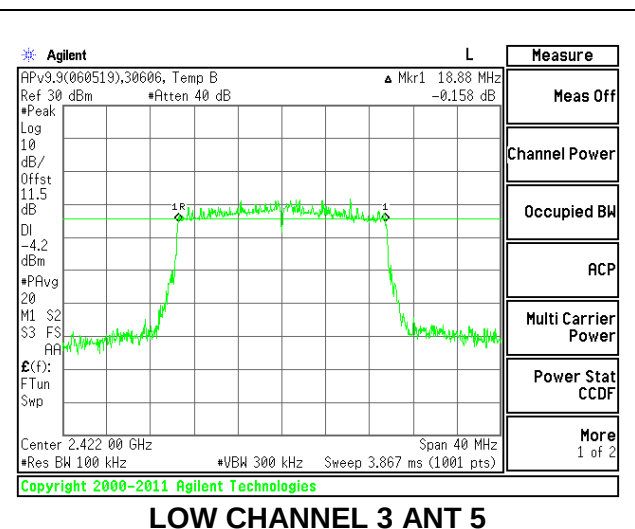
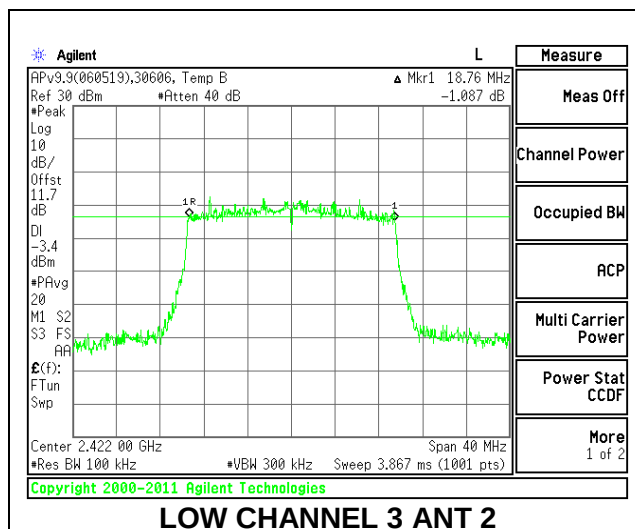
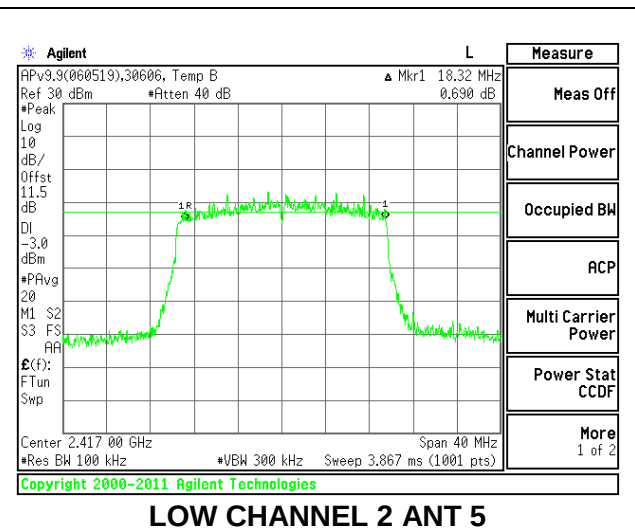
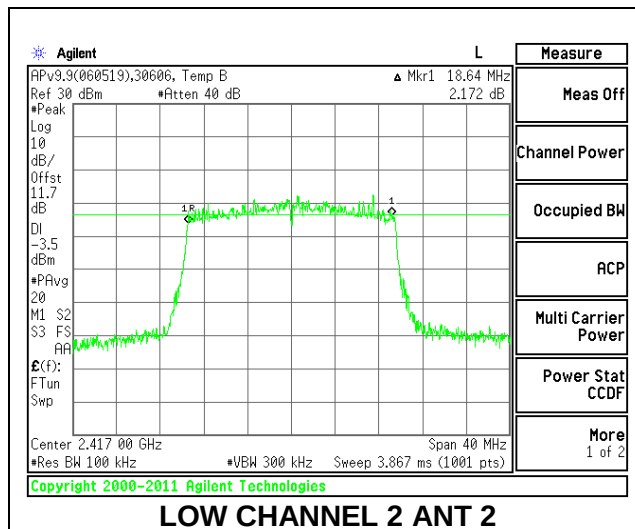
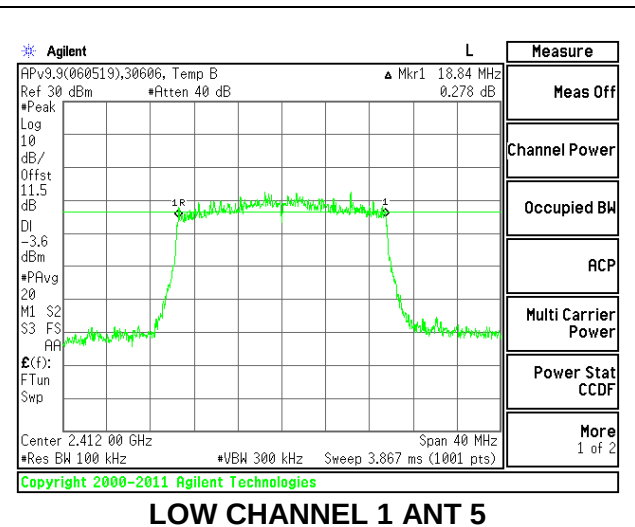
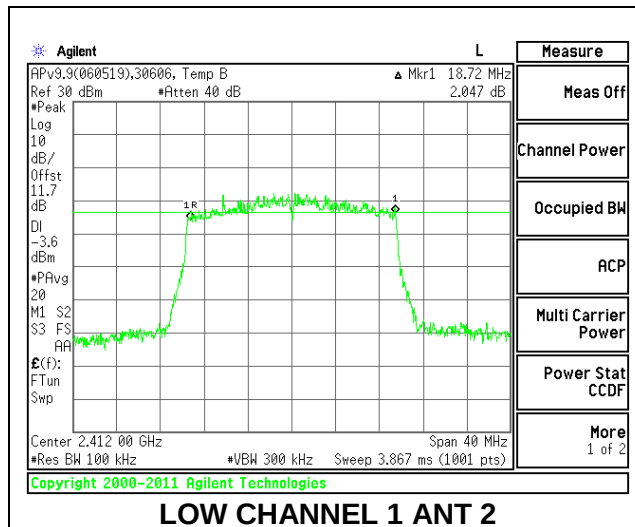
**Antenna 2 + Antenna 5 2TX MODE: 52-Tones, RU Index 40**

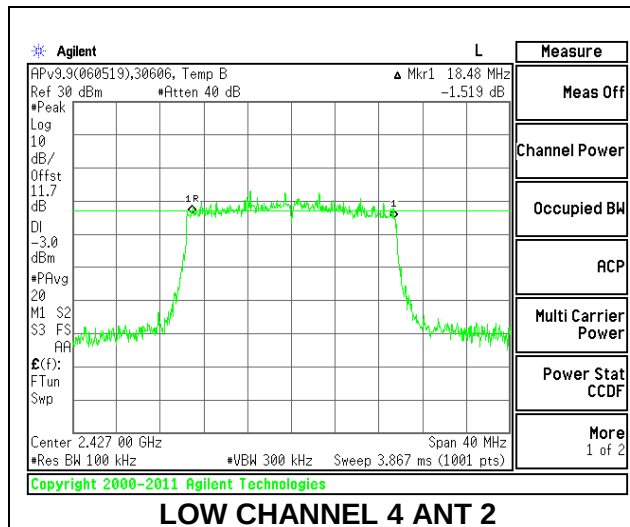
| Channel | Frequency<br>(MHz) | 6 dB Bandwidth<br>ANT 2<br>(MHz) | 6 dB Bandwidth<br>ANT 5<br>(MHz) | Minimum Limit<br>(MHz) |
|---------|--------------------|----------------------------------|----------------------------------|------------------------|
| High 13 | 2472               | 4.16                             | 4.20                             | 0.5                    |



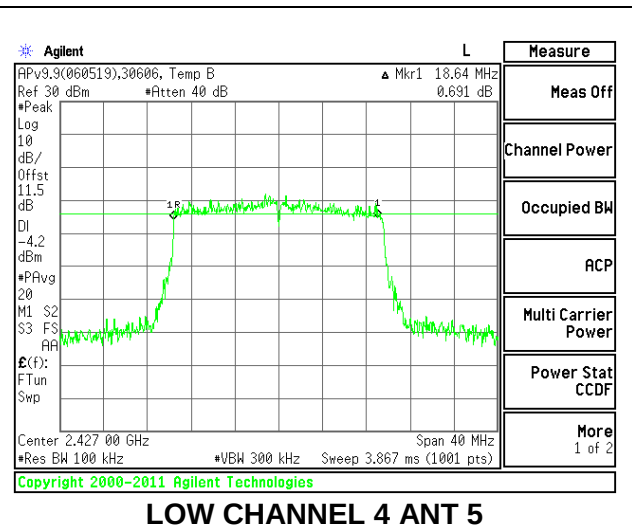
**Antenna 2 + Antenna 5 2TX MODE: 242-Tones, RU Index 61**

| Channel | Frequency<br>(MHz) | 6 dB Bandwidth<br>ANT 2<br>(MHz) | 6 dB Bandwidth<br>ANT 5<br>(MHz) | Minimum Limit<br>(MHz) |
|---------|--------------------|----------------------------------|----------------------------------|------------------------|
| Low 1   | 2412               | 18.72                            | 18.84                            | 0.5                    |
| Low 2   | 2417               | 18.64                            | 18.32                            | 0.5                    |
| Low 3   | 2422               | 18.76                            | 18.88                            | 0.5                    |
| Low 4   | 2427               | 18.48                            | 18.64                            | 0.5                    |
| Mid 6   | 2437               | 18.24                            | 18.60                            | 0.5                    |
| High 10 | 2457               | 18.76                            | 18.40                            | 0.5                    |
| High 11 | 2462               | 18.32                            | 18.56                            | 0.5                    |
| High 12 | 2467               | 18.84                            | 18.68                            | 0.5                    |
| High 13 | 2472               | 18.88                            | 18.60                            | 0.5                    |

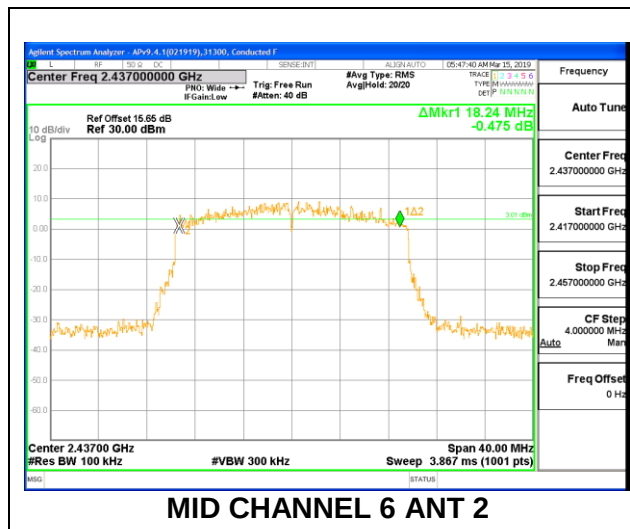




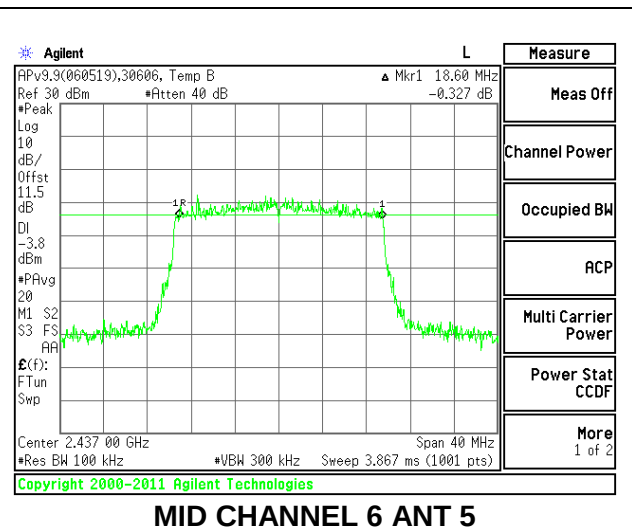
LOW CHANNEL 4 ANT 2



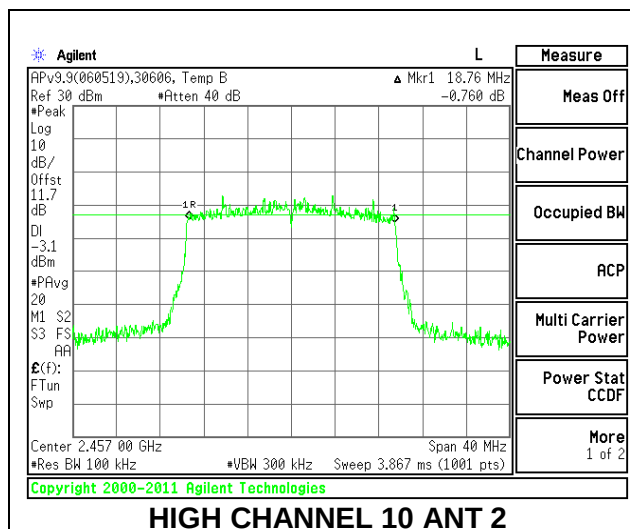
LOW CHANNEL 4 ANT 5



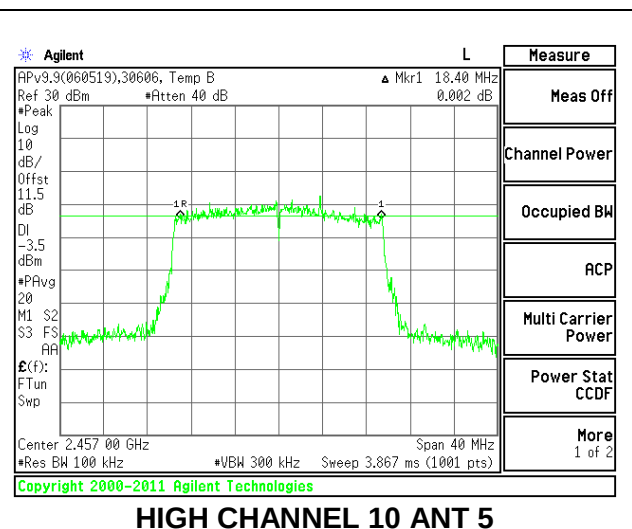
MID CHANNEL 6 ANT 2



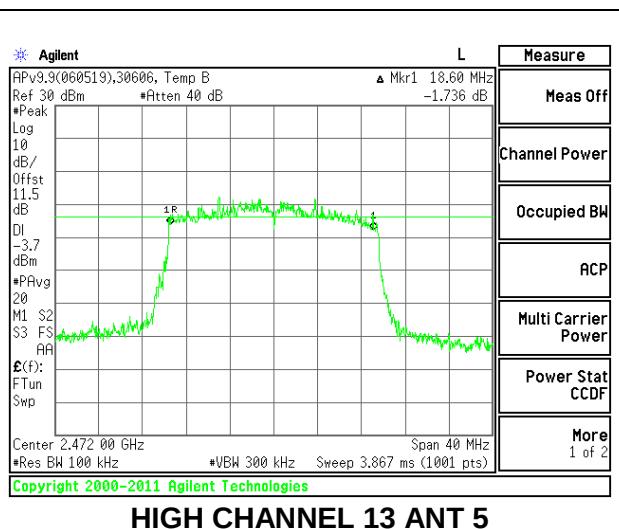
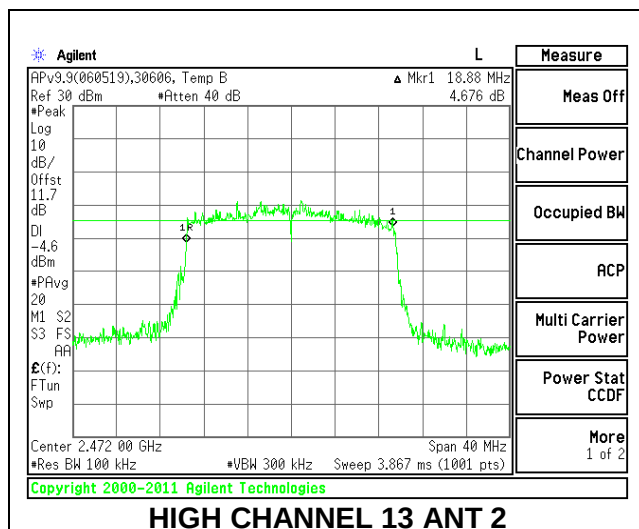
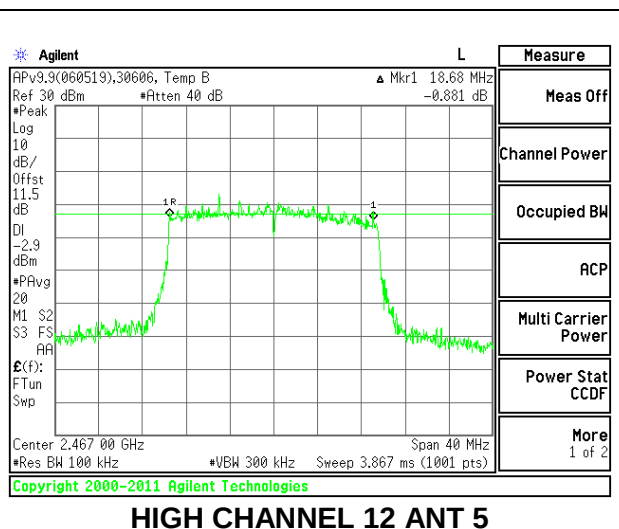
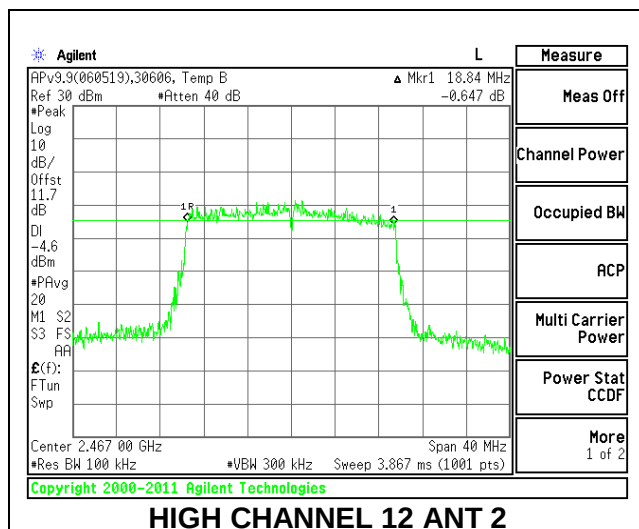
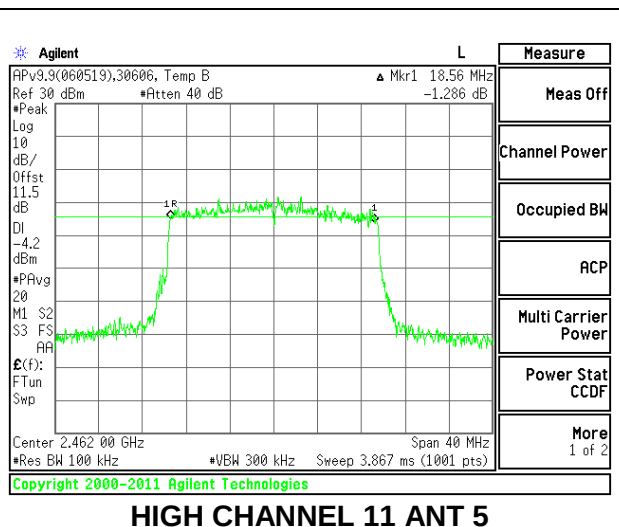
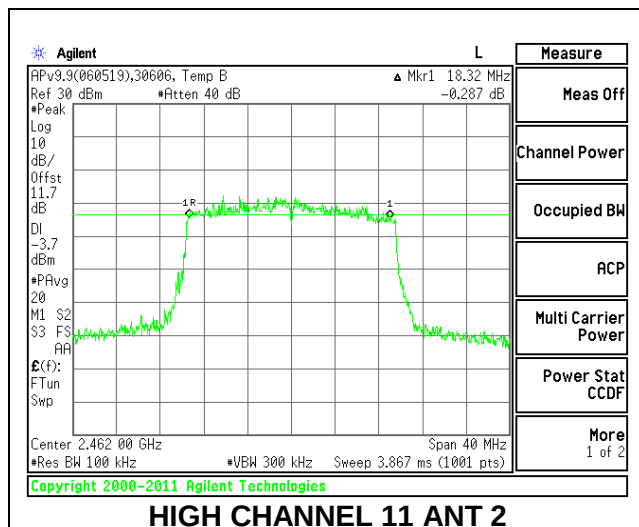
MID CHANNEL 6 ANT 5



HIGH CHANNEL 10 ANT 2



HIGH CHANNEL 10 ANT 5



## 8.4. OUTPUT POWER

### LIMITS

FCC §15.247 (b) (3)

RSS-247 5.4 (d)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the power meter to allow for a gated average reading of power.

### 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:

| Band<br>(GHz) | ANT 2<br>Antenna<br>Gain<br>(dBi) | ANT 5<br>Antenna<br>Gain<br>(dBi) | Uncorrelated Chains<br>Directional<br>Gain<br>(dBi) | Correlated Chains<br>Directional<br>Gain<br>(dBi) |
|---------------|-----------------------------------|-----------------------------------|-----------------------------------------------------|---------------------------------------------------|
| 2.4           | -4.50                             | -2.60                             | -3.45                                               | -0.49                                             |

### RESULTS



### 8.4.1. 802.11b MODE

#### 1TX Antenna 2 MODE

##### Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

##### Results

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 20.32                  | 20.32                             | 30.00                   | -9.68          |
| Mid 6   | 2437               | 21.31                  | 21.31                             | 30.00                   | -8.69          |
| High 11 | 2462               | 21.49                  | 21.49                             | 30.00                   | -8.51          |
| High 12 | 2467               | 20.35                  | 20.35                             | 30.00                   | -9.65          |
| High 13 | 2472               | 18.88                  | 18.88                             | 30.00                   | -11.12         |

# **1TX Antenna 5 MODE**

## **Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

## **Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 20.36                  | 20.36                             | 30.00                   | -9.64          |
| Mid 6   | 2437               | 21.39                  | 21.39                             | 30.00                   | -8.61          |
| High 11 | 2462               | 21.44                  | 21.44                             | 30.00                   | -8.56          |
| High 12 | 2467               | 20.46                  | 20.46                             | 30.00                   | -9.54          |
| High 13 | 2472               | 18.92                  | 18.92                             | 30.00                   | -11.08         |

## 8.4.2. 802.11n HT20 MODE

### 1TX Antenna 2 MODE

#### Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

#### Results

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 17.32                  | 17.32                             | 30.00                   | -12.68         |
| Low 2   | 2417               | 19.43                  | 19.43                             | 30.00                   | -10.57         |
| Low 3   | 2422               | 21.44                  | 21.44                             | 30.00                   | -8.56          |
| Mid 6   | 2437               | 21.36                  | 21.36                             | 30.00                   | -8.64          |
| High 9  | 2452               | 21.41                  | 21.41                             | 30.00                   | -8.59          |
| High 10 | 2457               | 19.39                  | 19.39                             | 30.00                   | -10.61         |
| High 11 | 2462               | 17.47                  | 17.47                             | 30.00                   | -12.53         |
| High 12 | 2467               | 15.31                  | 15.31                             | 30.00                   | -14.69         |
| High 13 | 2472               | 7.92                   | 7.92                              | 30.00                   | -22.08         |

**1TX Antenna 5 MODE****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 17.47                  | 17.47                             | 30.00                   | -12.53         |
| Low 2   | 2417               | 19.49                  | 19.49                             | 30.00                   | -10.51         |
| Low 3   | 2422               | 21.39                  | 21.39                             | 30.00                   | -8.61          |
| Mid 6   | 2437               | 21.34                  | 21.34                             | 30.00                   | -8.66          |
| High 9  | 2452               | 21.47                  | 21.47                             | 30.00                   | -8.53          |
| High 10 | 2457               | 19.43                  | 19.43                             | 30.00                   | -10.57         |
| High 11 | 2462               | 17.48                  | 17.48                             | 30.00                   | -12.52         |
| High 12 | 2467               | 15.41                  | 15.41                             | 30.00                   | -14.59         |
| High 13 | 2472               | 7.95                   | 7.95                              | 30.00                   | -22.05         |

### 8.4.3. 2TX Antenna 2 + Antenna 5 CDD MODE

#### Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 10 | 2457               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 12 | 2467               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 13 | 2472               | -3.45                        | 30.00                               | 36                             | 30.00                 |

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

#### Results

| Channel | Frequency<br>(MHz) | Antenna 2<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) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 16.39                               | 16.44                               | 19.43                             | 30.00                   | -10.57         |
| Low 2   | 2417               | 18.42                               | 18.49                               | 21.47                             | 30.00                   | -8.53          |
| Mid 6   | 2437               | 21.41                               | 21.48                               | 24.46                             | 30.00                   | -5.54          |
| High 10 | 2457               | 18.36                               | 18.40                               | 21.39                             | 30.00                   | -8.61          |
| High 11 | 2462               | 16.40                               | 16.47                               | 19.45                             | 30.00                   | -10.55         |
| High 12 | 2467               | 14.44                               | 14.41                               | 17.44                             | 30.00                   | -12.56         |
| High 13 | 2472               | 6.78                                | 6.80                                | 9.80                              | 30.00                   | -20.20         |

#### 8.4.4. 802.11ax HE20 MODE

##### 1TX Antenna 2 MODE: 26-Tones, RU Index 0

###### Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

###### Results

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.98                  | 15.98                             | 30.00                   | -14.02         |
| Low 2   | 2417               | 17.83                  | 17.83                             | 30.00                   | -12.17         |
| Low 3   | 2422               | 21.35                  | 21.35                             | 30.00                   | -8.65          |
| Mid 6   | 2437               | 21.44                  | 21.44                             | 30.00                   | -8.56          |
| High 9  | 2452               | 21.38                  | 21.38                             | 30.00                   | -8.62          |
| High 10 | 2457               | 17.91                  | 17.91                             | 30.00                   | -12.09         |
| High 11 | 2462               | 15.92                  | 15.92                             | 30.00                   | -14.08         |
| High 12 | 2467               | 13.93                  | 13.93                             | 30.00                   | -16.07         |
| High 13 | 2472               | -0.21                  | -0.21                             | 30.00                   | -30.21         |

**1TX Antenna 2 MODE: 26-Tones, RU Index 4**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.93                  | 15.93                             | 30.00                   | -14.07         |
| Low 2   | 2417               | 17.87                  | 17.87                             | 30.00                   | -12.13         |
| Low 3   | 2422               | 21.47                  | 21.47                             | 30.00                   | -8.53          |
| Mid 6   | 2437               | 21.39                  | 21.39                             | 30.00                   | -8.61          |
| High 9  | 2452               | 21.42                  | 21.42                             | 30.00                   | -8.58          |
| High 10 | 2457               | 17.87                  | 17.87                             | 30.00                   | -12.13         |
| High 11 | 2462               | 15.91                  | 15.91                             | 30.00                   | -14.09         |
| High 12 | 2467               | 13.90                  | 13.90                             | 30.00                   | -16.10         |
| High 13 | 2472               | -0.09                  | -0.09                             | 30.00                   | -30.09         |

**1TX Antenna 2 MODE: 26-Tones, RU Index 8****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.93                  | 15.93                             | 30.00                   | -14.07         |
| Low 2   | 2417               | 17.82                  | 17.82                             | 30.00                   | -12.18         |
| Low 3   | 2422               | 21.43                  | 21.43                             | 30.00                   | -8.57          |
| Mid 6   | 2437               | 21.38                  | 21.38                             | 30.00                   | -8.62          |
| High 9  | 2452               | 21.47                  | 21.47                             | 30.00                   | -8.53          |
| High 10 | 2457               | 17.91                  | 17.91                             | 30.00                   | -12.09         |
| High 11 | 2462               | 15.87                  | 15.87                             | 30.00                   | -14.13         |
| High 12 | 2467               | 13.78                  | 13.78                             | 30.00                   | -16.22         |
| High 13 | 2472               | -0.14                  | -0.14                             | 30.00                   | -30.14         |



**1TX Antenna 2 MODE: 52-Tones RU Index 40****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| High 13 | 2472               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| High 13 | 2472               | 3.70                   | 3.70                              | 30.00                   | -26.30         |

**1TX Antenna 2 MODE: 242-Tones, RU Index 61****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -4.50                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.89                  | 15.89                             | 30.00                   | -14.11         |
| Low 2   | 2417               | 17.91                  | 17.91                             | 30.00                   | -12.09         |
| Low 3   | 2422               | 21.45                  | 21.45                             | 30.00                   | -8.55          |
| Mid 6   | 2437               | 21.36                  | 21.36                             | 30.00                   | -8.64          |
| High 9  | 2452               | 21.30                  | 21.30                             | 30.00                   | -8.70          |
| High 10 | 2457               | 17.76                  | 17.76                             | 30.00                   | -12.24         |
| High 11 | 2462               | 15.87                  | 15.87                             | 30.00                   | -14.13         |
| High 12 | 2467               | 13.83                  | 13.83                             | 30.00                   | -16.17         |
| High 13 | 2472               | 6.39                   | 6.39                              | 30.00                   | -23.61         |

**1TX Antenna 5 MODE: 26-Tones, RU Index 0****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.92                  | 15.92                             | 30.00                   | -14.08         |
| Low 2   | 2417               | 17.90                  | 17.90                             | 30.00                   | -12.10         |
| Low 3   | 2422               | 21.41                  | 21.41                             | 30.00                   | -8.59          |
| Mid 6   | 2437               | 21.24                  | 21.24                             | 30.00                   | -8.76          |
| High 9  | 2452               | 21.26                  | 21.26                             | 30.00                   | -8.74          |
| High 10 | 2457               | 17.74                  | 17.74                             | 30.00                   | -12.26         |
| High 11 | 2462               | 15.89                  | 15.89                             | 30.00                   | -14.11         |
| High 12 | 2467               | 13.83                  | 13.83                             | 30.00                   | -16.17         |
| High 13 | 2472               | -0.05                  | -0.05                             | 30.00                   | -30.05         |

**1TX Antenna 5 MODE: 26-Tones, RU Index 4****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.89                  | 15.89                             | 30.00                   | -14.11         |
| Low 2   | 2417               | 17.87                  | 17.87                             | 30.00                   | -12.13         |
| Low 3   | 2422               | 21.47                  | 21.47                             | 30.00                   | -8.53          |
| Mid 6   | 2437               | 21.24                  | 21.24                             | 30.00                   | -8.76          |
| High 9  | 2452               | 21.36                  | 21.36                             | 30.00                   | -8.64          |
| High 10 | 2457               | 17.74                  | 17.74                             | 30.00                   | -12.26         |
| High 11 | 2462               | 15.89                  | 15.89                             | 30.00                   | -14.11         |
| High 12 | 2467               | 13.83                  | 13.83                             | 30.00                   | -16.17         |
| High 13 | 2472               | -0.21                  | -0.21                             | 30.00                   | -30.21         |

**1TX Antenna 5 MODE: 26-Tones, RU Index 8****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.93                  | 15.93                             | 30.00                   | -14.07         |
| Low 2   | 2417               | 17.85                  | 17.85                             | 30.00                   | -12.15         |
| Low 3   | 2422               | 21.42                  | 21.42                             | 30.00                   | -8.58          |
| Mid 6   | 2437               | 21.31                  | 21.31                             | 30.00                   | -8.69          |
| High 9  | 2452               | 21.35                  | 21.35                             | 30.00                   | -8.65          |
| High 10 | 2457               | 17.80                  | 17.80                             | 30.00                   | -12.20         |
| High 11 | 2462               | 15.93                  | 15.93                             | 30.00                   | -14.07         |
| High 12 | 2467               | 13.86                  | 13.86                             | 30.00                   | -16.14         |
| High 13 | 2472               | -0.20                  | -0.20                             | 30.00                   | -30.20         |

**1TX Antenna 5 MODE: 52-Tones RU Index 40****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| High 13 | 2472               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| High 13 | 2472               | 3.79                   | 3.79                              | 30.00                   | -26.21         |

**1TX Antenna 5 MODE: 242-Tones, RU Index 61****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -2.60                        | 30.00                          | 30                              | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.91                  | 15.91                             | 30.00                   | -14.09         |
| Low 2   | 2417               | 17.91                  | 17.91                             | 30.00                   | -12.09         |
| Low 3   | 2422               | 21.44                  | 21.44                             | 30.00                   | -8.56          |
| Mid 6   | 2437               | 21.32                  | 21.32                             | 30.00                   | -8.68          |
| High 9  | 2452               | 21.40                  | 21.40                             | 30.00                   | -8.60          |
| High 10 | 2457               | 17.71                  | 17.71                             | 30.00                   | -12.29         |
| High 11 | 2462               | 15.91                  | 15.91                             | 30.00                   | -14.09         |
| High 12 | 2467               | 13.84                  | 13.84                             | 30.00                   | -16.16         |
| High 13 | 2472               | 6.45                   | 6.45                              | 30.00                   | -23.55         |

### 8.4.5. 802.11ax HE20 OFDMA MODE 2TX

#### 2TX Antenna 2 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 0

##### Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 10 | 2457               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 12 | 2467               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 13 | 2472               | -3.45                        | 30.00                               | 36                             | 30.00                 |

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

##### Results

| Channel | Frequency<br>(MHz) | Antenna 2<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) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 14.77                               | 14.86                               | 17.83                             | 30.00                   | -12.17         |
| Low 2   | 2417               | 16.99                               | 16.70                               | 19.86                             | 30.00                   | -10.14         |
| Low 3   | 2422               | 18.99                               | 18.93                               | 21.97                             | 30.00                   | -8.03          |
| Mid 6   | 2437               | 19.86                               | 19.88                               | 22.88                             | 30.00                   | -7.12          |
| High 10 | 2457               | 16.97                               | 16.90                               | 19.95                             | 30.00                   | -10.05         |
| High 11 | 2462               | 14.91                               | 14.98                               | 17.96                             | 30.00                   | -12.04         |
| High 12 | 2467               | 12.79                               | 12.84                               | 15.83                             | 30.00                   | -14.17         |
| High 13 | 2472               | -0.02                               | -0.10                               | 2.95                              | 30.00                   | -27.05         |



**2TX Antenna 2 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 4****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 10 | 2457               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 12 | 2467               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 13 | 2472               | -3.45                        | 30.00                               | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Antenna 2<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) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 14.83                               | 14.78                               | 17.82                             | 30.00                   | -12.18         |
| Low 2   | 2417               | 16.81                               | 16.71                               | 19.77                             | 30.00                   | -10.23         |
| Low 3   | 2422               | 18.87                               | 18.95                               | 21.92                             | 30.00                   | -8.08          |
| Mid 6   | 2437               | 19.87                               | 19.81                               | 22.85                             | 30.00                   | -7.15          |
| High 10 | 2457               | 16.82                               | 16.97                               | 19.91                             | 30.00                   | -10.09         |
| High 11 | 2462               | 14.89                               | 14.91                               | 17.91                             | 30.00                   | -12.09         |
| High 12 | 2467               | 12.83                               | 12.97                               | 15.91                             | 30.00                   | -14.09         |
| High 13 | 2472               | -0.03                               | -0.12                               | 2.94                              | 30.00                   | -27.06         |

**2TX Antenna 2 + Antenna 5 OFDMA MODE: 26-Tones, RU Index 8****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 10 | 2457               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 12 | 2467               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 13 | 2472               | -3.45                        | 30.00                               | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Antenna 2<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) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 14.84                               | 14.77                               | 17.82                             | 30.00                   | -12.18         |
| Low 2   | 2417               | 16.78                               | 16.71                               | 19.76                             | 30.00                   | -10.24         |
| Low 3   | 2422               | 18.80                               | 18.92                               | 21.87                             | 30.00                   | -8.13          |
| Mid 6   | 2437               | 19.88                               | 19.79                               | 22.85                             | 30.00                   | -7.15          |
| High 10 | 2457               | 16.76                               | 16.96                               | 19.87                             | 30.00                   | -10.13         |
| High 11 | 2462               | 14.89                               | 14.96                               | 17.94                             | 30.00                   | -12.06         |
| High 12 | 2467               | 12.85                               | 12.85                               | 15.86                             | 30.00                   | -14.14         |
| High 13 | 2472               | -0.14                               | -0.01                               | 2.94                              | 30.00                   | -27.06         |

**2TX Antenna 2 + Antenna 5 OFDMA MODE: 52-Tones RU Index 40****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| High 13 | 2472               | -3.45                        | 30.00                               | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Antenna 2<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) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|----------------|
| High 13 | 2472               | 3.94                                | 3.87                                | 6.92                              | 30.00                   | -23.08         |

**2TX Antenna 2 + Antenna 5 OFDMA MODE: 242-Tones, RU Index 61****Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Low 4   | 2427               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 10 | 2457               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 12 | 2467               | -3.45                        | 30.00                               | 36                             | 30.00                 |
| High 13 | 2472               | -3.45                        | 30.00                               | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Antenna 2<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) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 14.85                               | 14.83                               | 17.85                             | 30.00                   | -12.15         |
| Low 2   | 2417               | 16.78                               | 16.95                               | 19.88                             | 30.00                   | -10.12         |
| Low 3   | 2422               | 18.62                               | 18.97                               | 21.81                             | 30.00                   | -8.19          |
| Low 4   | 2427               | 21.36                               | 21.43                               | 24.41                             | 30.00                   | -5.59          |
| Mid 6   | 2437               | 21.40                               | 21.37                               | 24.40                             | 30.00                   | -5.60          |
| High 10 | 2457               | 16.72                               | 16.71                               | 19.73                             | 30.00                   | -10.27         |
| High 11 | 2462               | 14.86                               | 14.85                               | 17.87                             | 30.00                   | -12.13         |
| High 12 | 2467               | 12.70                               | 12.85                               | 15.79                             | 30.00                   | -14.21         |
| High 13 | 2472               | 6.41                                | 6.42                                | 9.43                              | 30.00                   | -20.57         |

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## **8.5. POWER SPECTRAL DENSITY**

### **LIMITS**

FCC §15.247 (e)

RSS-247 (5.2) (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### **RESULTS**

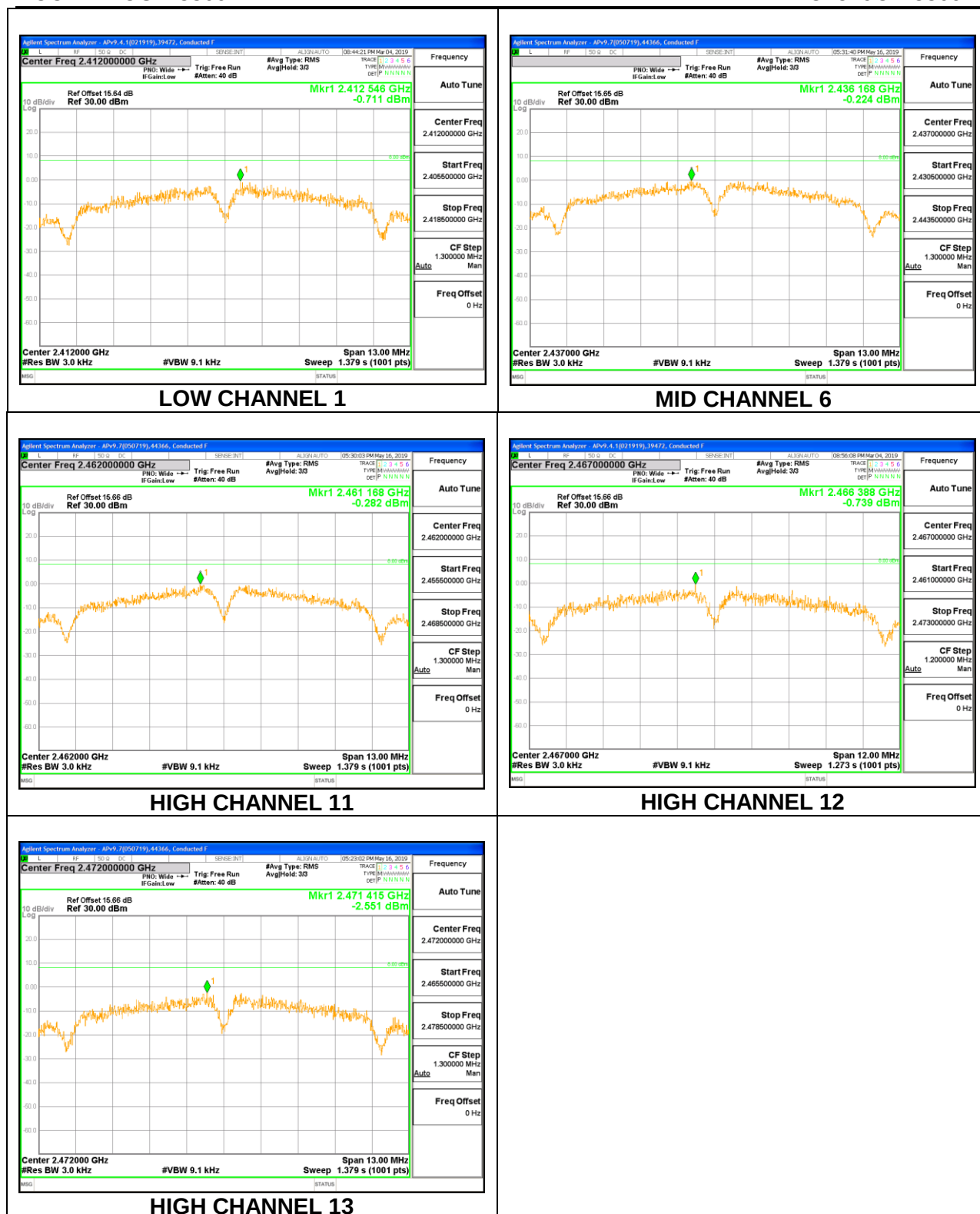
### 8.5.1. 802.11b MODE

#### 1TX Antenna 2 MODE

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

#### PSD Results

| Channel | Frequency<br>(MHz) | ANT 2<br>Meas<br>(dBm/<br>3kHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>3kHz) | Limit<br>(dBm/<br>3kHz) | Margin<br>(dB) |
|---------|--------------------|---------------------------------|------------------------------------------|-------------------------|----------------|
| Low 1   | 2412               | -0.71                           | -0.71                                    | 8.0                     | -8.7           |
| Mid 6   | 2437               | -0.22                           | -0.22                                    | 8.0                     | -8.2           |
| High 11 | 2462               | -0.28                           | -0.28                                    | 8.0                     | -8.3           |
| High 12 | 2467               | -0.74                           | -0.74                                    | 8.0                     | -8.7           |
| High 13 | 2472               | -2.55                           | -2.55                                    | 8.0                     | -10.6          |



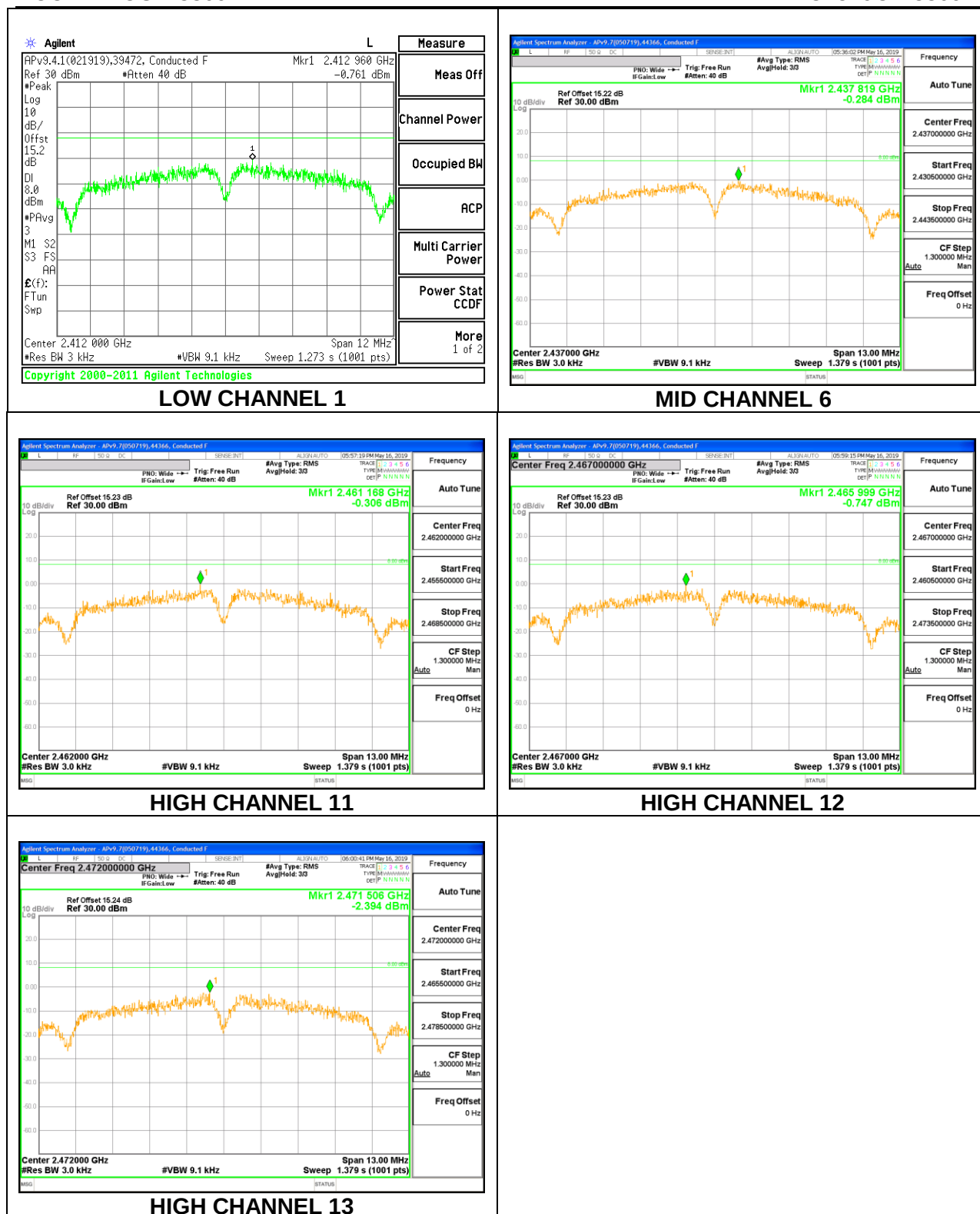
**1TX Antenna 5 MODE**

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

**PSD Results**

| <b>Channel</b> | <b>Frequency<br/>(MHz)</b> | <b>ANT 5<br/>Meas<br/>(dBm/<br/>3kHz)</b> | <b>Total<br/>Corr'd<br/>PSD<br/>(dBm/<br/>3kHz)</b> | <b>Limit<br/>(dBm/<br/>3kHz)</b> | <b>Margin<br/>(dB)</b> |
|----------------|----------------------------|-------------------------------------------|-----------------------------------------------------|----------------------------------|------------------------|
| Low 1          | 2412                       | -0.76                                     | -0.76                                               | 8.0                              | -8.8                   |
| Mid 6          | 2437                       | -0.28                                     | -0.28                                               | 8.0                              | -8.3                   |
| High 11        | 2462                       | -0.31                                     | -0.31                                               | 8.0                              | -8.3                   |
| High 12        | 2467                       | -0.75                                     | -0.75                                               | 8.0                              | -8.7                   |
| High 13        | 2472                       | -2.39                                     | -2.39                                               | 8.0                              | -10.4                  |





## 8.5.2. 802.11n HT20 MODE

### 1TX Antenna 2 MODE

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

#### PSD Results

| Channel | Frequency<br>(MHz) | ANT 2<br>Meas<br>(dBm/<br>3kHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>3kHz) | Limit<br>(dBm/<br>3kHz) | Margin<br>(dB) |
|---------|--------------------|---------------------------------|------------------------------------------|-------------------------|----------------|
| Low 1   | 2412               | -6.47                           | -6.47                                    | 8.0                     | -14.5          |
| Low 2   | 2417               | -0.38                           | -0.38                                    | 8.0                     | -8.4           |
| Low 3   | 2422               | -2.54                           | -2.54                                    | 8.0                     | -10.5          |
| Mid 6   | 2437               | -2.66                           | -2.66                                    | 8.0                     | -10.7          |
| High 9  | 2452               | -3.09                           | -3.09                                    | 8.0                     | -11.1          |
| High 10 | 2457               | -3.79                           | -3.79                                    | 8.0                     | -11.8          |
| High 11 | 2462               | -6.46                           | -6.46                                    | 8.0                     | -14.5          |
| High 12 | 2467               | -7.40                           | -7.40                                    | 8.0                     | -15.4          |
| High 13 | 2472               | -16.93                          | -16.93                                   | 8.0                     | -24.9          |

