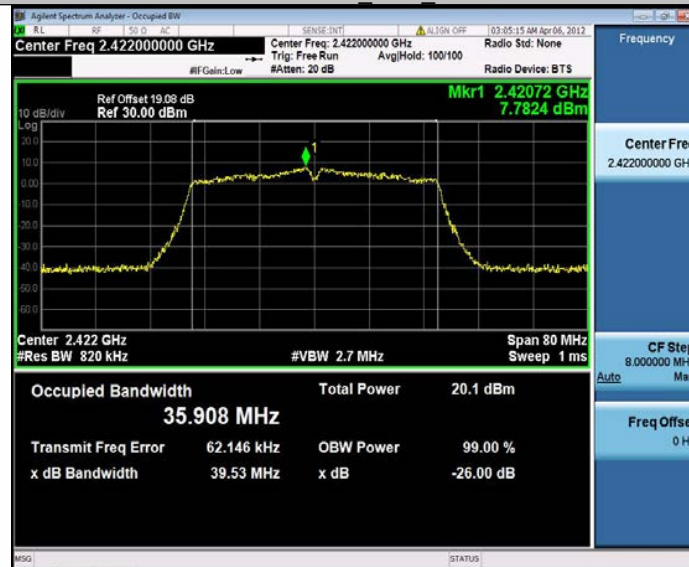


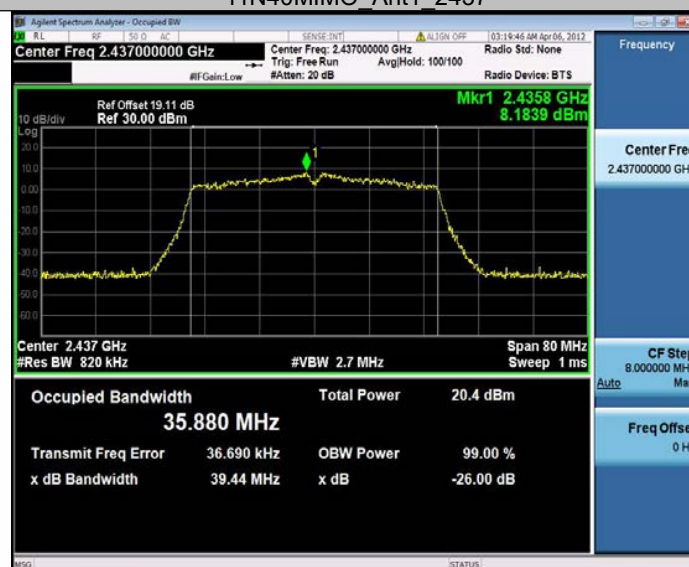
## 11N40MIMO\_Ant1\_2422



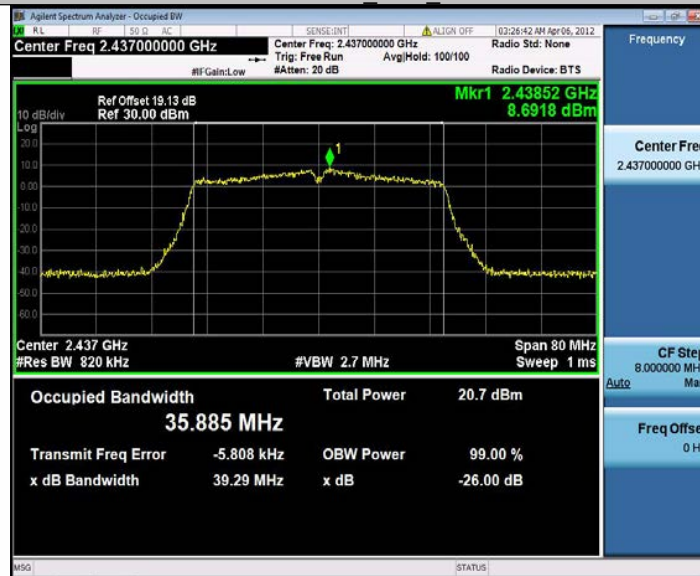
## 11N40MIMO\_Ant2\_2422



## 11N40MIMO\_Ant1\_2437



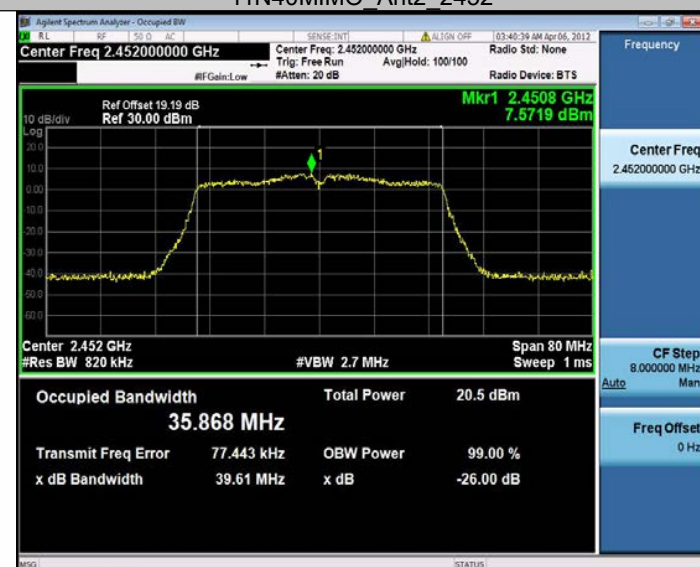
## 11N40MIMO\_Ant2\_2437



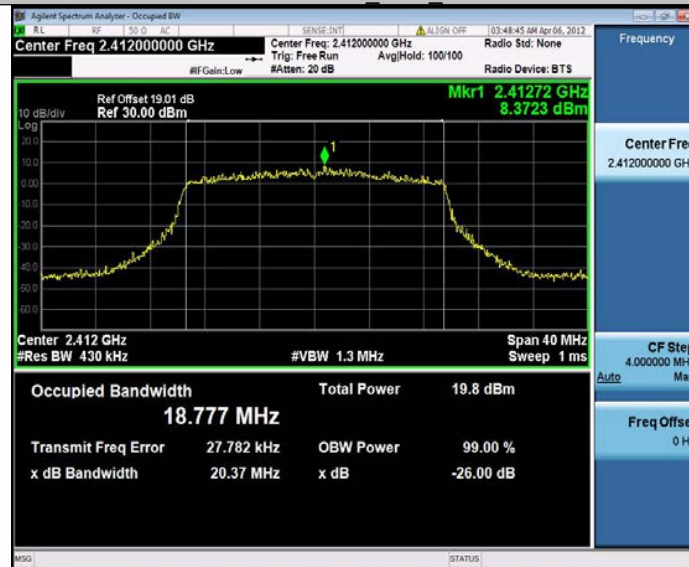
## 11N40MIMO\_Ant1\_2452



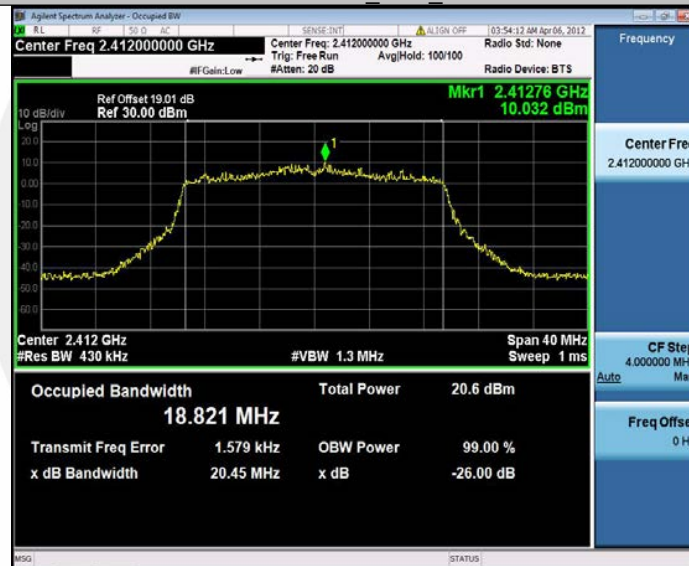
## 11N40MIMO\_Ant2\_2452



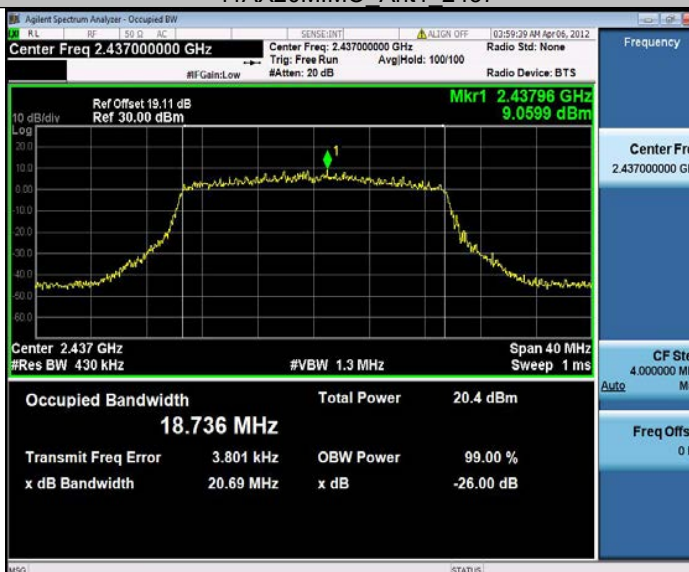
## 11AX20MIMO\_Ant1\_2412



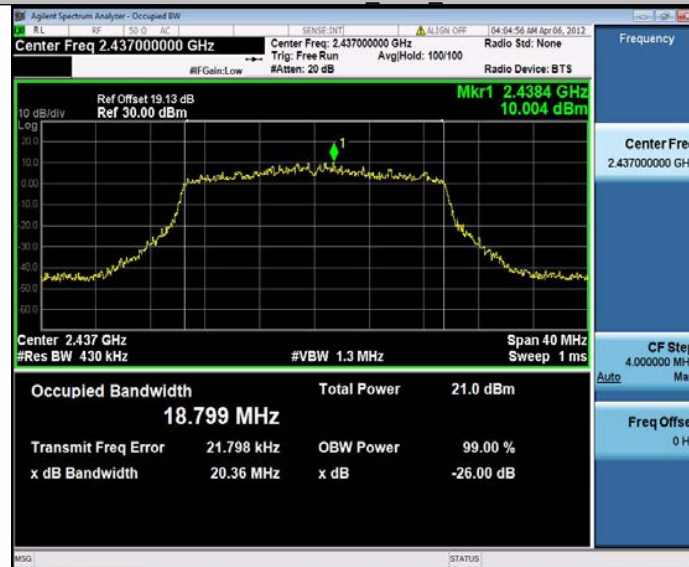
## 11AX20MIMO\_Ant2\_2412



## 11AX20MIMO\_Ant1\_2437



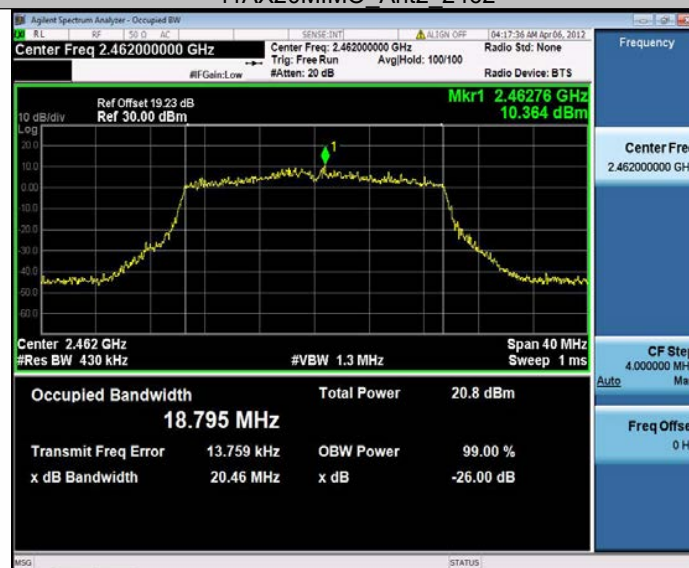
## 11AX20MIMO\_Ant2\_2437



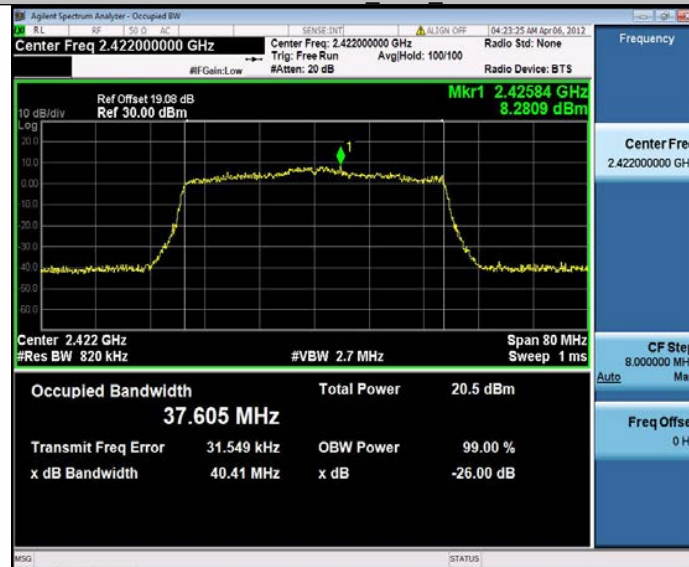
## 11AX20MIMO\_Ant1\_2462



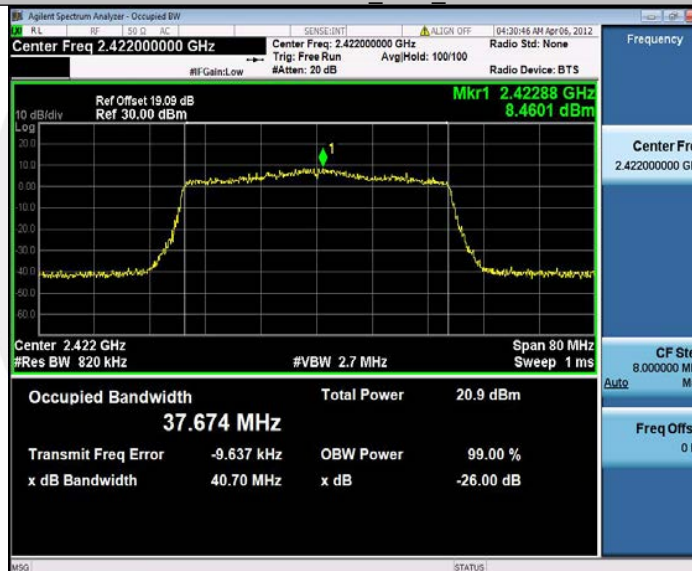
## 11AX20MIMO\_Ant2\_2462



## 11AX40MIMO\_Ant1\_2422



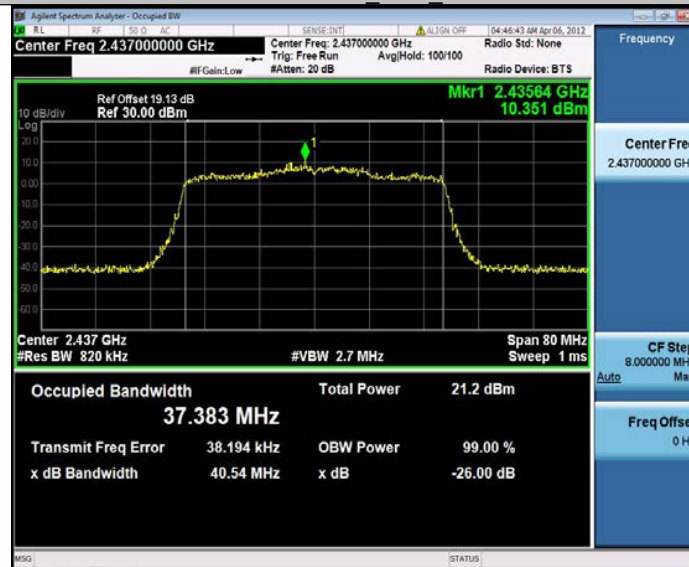
## 11AX40MIMO\_Ant2\_2422



## 11AX40MIMO\_Ant1\_2437



## 11AX40MIMO\_Ant2\_2437



## 11AX40MIMO\_Ant1\_2452



## 11AX40MIMO\_Ant2\_2452



## 8.4 MAXIMUM PEAK CONDUCTED OUTPUT POWER

### 8.4.1 Applicable Standard

According to FCC Part 15.247 (b)(3)  
According to RSS-247 5.4(d)  
According to RSS-Gen 6.12  
According to 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.2.2  
According to ANSI C63.10 Section 11.9.2.2.4

### 8.4.2 Conformance Limit

The maximum conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

### 8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup

### 8.4.4 Test Procedure

- Measure the duty cycle D of the transmitter output signal.
- Set span to at least 1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- Set VBW  $\geq [3 \times \text{RBW}]$ .
- Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use the sample detector mode.
- Do not use sweep triggering. Allow the sweep to "free run."
- Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- Add  $[10 \log (1 / D)]$ , where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add  $[10 \log (1/0.25)] = 6 \text{ dB}$  if the duty cycle is 25%.

#### ■ According to FCC Part 15.247(b)(4):

Conducted output power limit specified in paragraph (b) of this section is 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 below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: If antenna Gain exceeds 6 dBi, then Output power Limit =  $30 - (\text{Gain} - 6)$

### 8.4.5 Test Results

|                    |           |
|--------------------|-----------|
| Temperature:       | 25 °C     |
| Relative Humidity: | 45%       |
| ATM Pressure:      | 1011 mbar |
| Test Engineer:     | XXH       |

Note: N/A

| TestMode   | Antenna | Frequency[MHz] | Conducted Power[dBm] | Conducted Limit[dBm] | Verdict |
|------------|---------|----------------|----------------------|----------------------|---------|
| 11B        | Ant1    | 2412           | 12.71                | ≤30.00               | PASS    |
|            | Ant2    | 2412           | 13.08                | ≤30.00               | PASS    |
|            | Ant1    | 2437           | 13.09                | ≤30.00               | PASS    |
|            | Ant2    | 2437           | 13.57                | ≤30.00               | PASS    |
|            | Ant1    | 2462           | 13.24                | ≤30.00               | PASS    |
|            | Ant2    | 2462           | 13.35                | ≤30.00               | PASS    |
| 11G        | Ant1    | 2412           | 12.78                | ≤30.00               | PASS    |
|            | Ant2    | 2412           | 13.27                | ≤30.00               | PASS    |
|            | Ant1    | 2437           | 13.38                | ≤30.00               | PASS    |
|            | Ant2    | 2437           | 13.71                | ≤30.00               | PASS    |
|            | Ant1    | 2462           | 13.51                | ≤30.00               | PASS    |
|            | Ant2    | 2462           | 13.40                | ≤30.00               | PASS    |
| 11N20MIMO  | Ant1    | 2412           | 12.38                | ≤30.00               | PASS    |
|            | Ant2    | 2412           | 13.13                | ≤30.00               | PASS    |
|            | total   | 2412           | 15.78                | ≤29.08               | PASS    |
|            | Ant1    | 2437           | 13.09                | ≤30.00               | PASS    |
|            | Ant2    | 2437           | 13.41                | ≤30.00               | PASS    |
|            | total   | 2437           | 16.26                | ≤29.08               | PASS    |
|            | Ant1    | 2462           | 13.26                | ≤30.00               | PASS    |
|            | Ant2    | 2462           | 13.19                | ≤30.00               | PASS    |
|            | total   | 2462           | 16.24                | ≤29.08               | PASS    |
| 11N40MIMO  | Ant1    | 2422           | 13.28                | ≤30.00               | PASS    |
|            | Ant2    | 2422           | 13.48                | ≤30.00               | PASS    |
|            | total   | 2422           | 16.39                | ≤29.08               | PASS    |
|            | Ant1    | 2437           | 13.56                | ≤30.00               | PASS    |
|            | Ant2    | 2437           | 13.74                | ≤30.00               | PASS    |
|            | total   | 2437           | 16.66                | ≤29.08               | PASS    |
|            | Ant1    | 2452           | 13.84                | ≤30.00               | PASS    |
|            | Ant2    | 2452           | 13.82                | ≤30.00               | PASS    |
|            | total   | 2452           | 16.84                | ≤29.08               | PASS    |
| 11AX20MIMO | Ant1    | 2412           | 12.52                | ≤30.00               | PASS    |
|            | Ant2    | 2412           | 13.33                | ≤30.00               | PASS    |
|            | total   | 2412           | 15.95                | ≤29.08               | PASS    |
|            | Ant1    | 2437           | 13.07                | ≤30.00               | PASS    |
|            | Ant2    | 2437           | 13.62                | ≤30.00               | PASS    |
|            | total   | 2437           | 16.36                | ≤29.08               | PASS    |
|            | Ant1    | 2462           | 13.46                | ≤30.00               | PASS    |
|            | Ant2    | 2462           | 13.46                | ≤30.00               | PASS    |
|            | total   | 2462           | 16.47                | ≤29.08               | PASS    |
| 11AX40MIMO | Ant1    | 2422           | 13.11                | ≤30.00               | PASS    |
|            | Ant2    | 2422           | 13.45                | ≤30.00               | PASS    |
|            | total   | 2422           | 16.29                | ≤29.08               | PASS    |
|            | Ant1    | 2437           | 13.34                | ≤30.00               | PASS    |
|            | Ant2    | 2437           | 13.68                | ≤30.00               | PASS    |
|            | total   | 2437           | 16.52                | ≤29.08               | PASS    |
|            | Ant1    | 2452           | 13.70                | ≤30.00               | PASS    |
|            | Ant2    | 2452           | 13.52                | ≤30.00               | PASS    |
|            | total   | 2452           | 16.62                | ≤29.08               | PASS    |

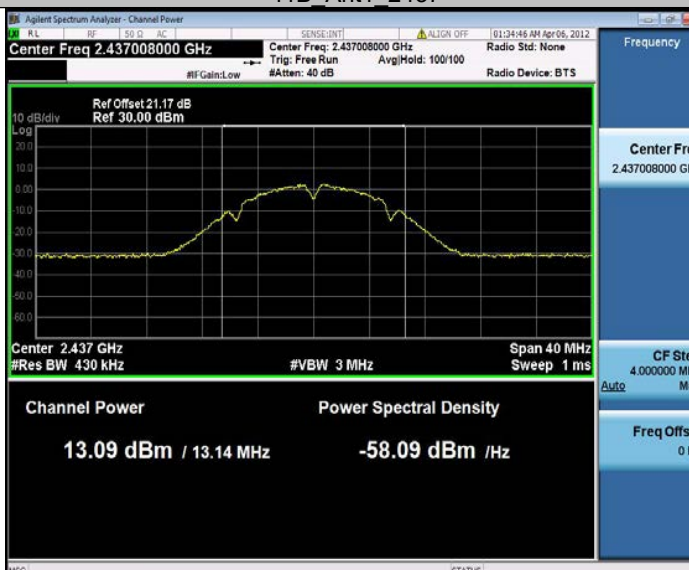
11B\_Ant1\_2412



11B\_Ant2\_2412



11B\_Ant1\_2437



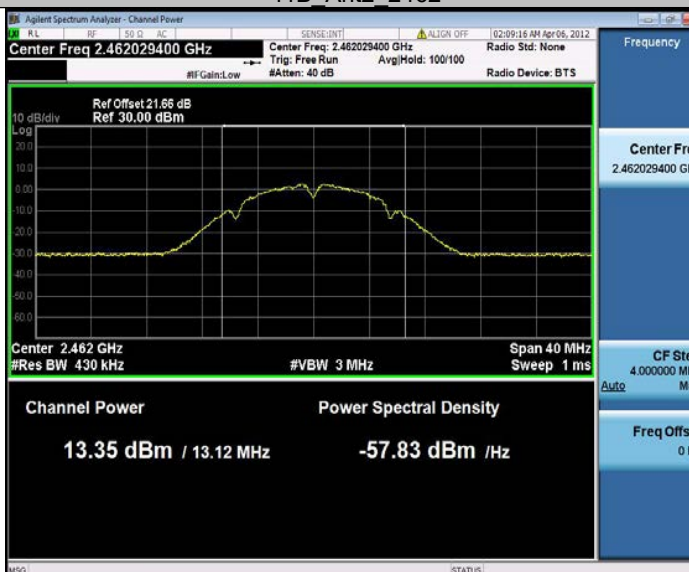
11B\_Ant2\_2437



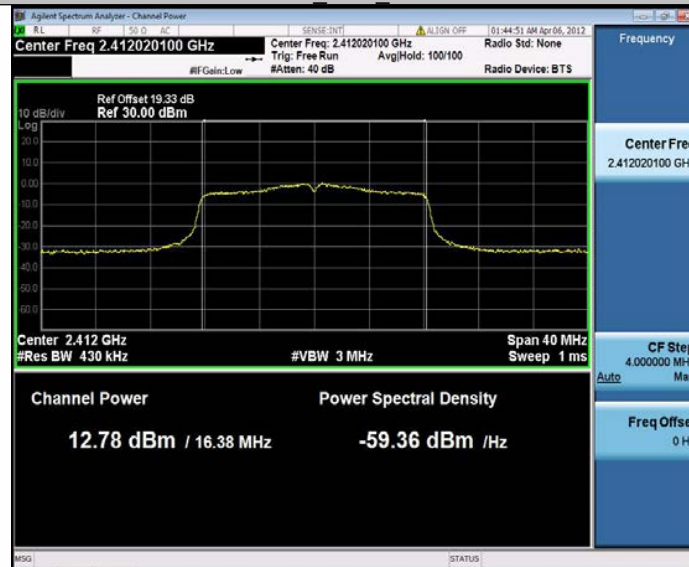
11B\_Ant1\_2462



11B\_Ant2\_2462



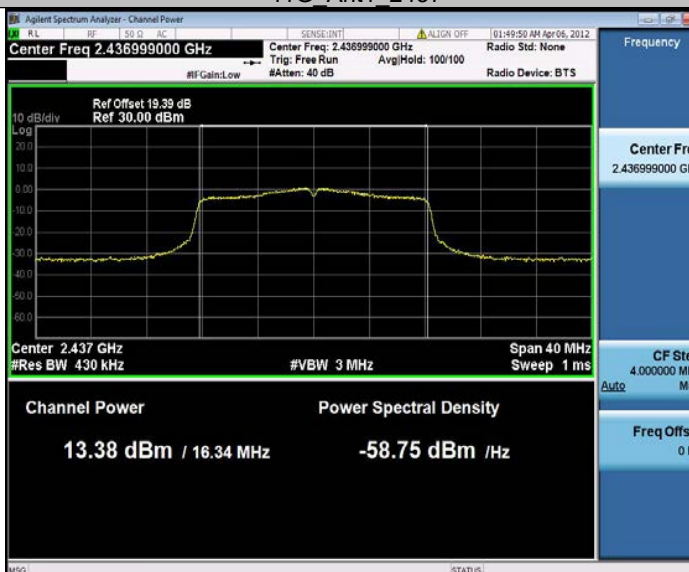
11G\_Ant1\_2412



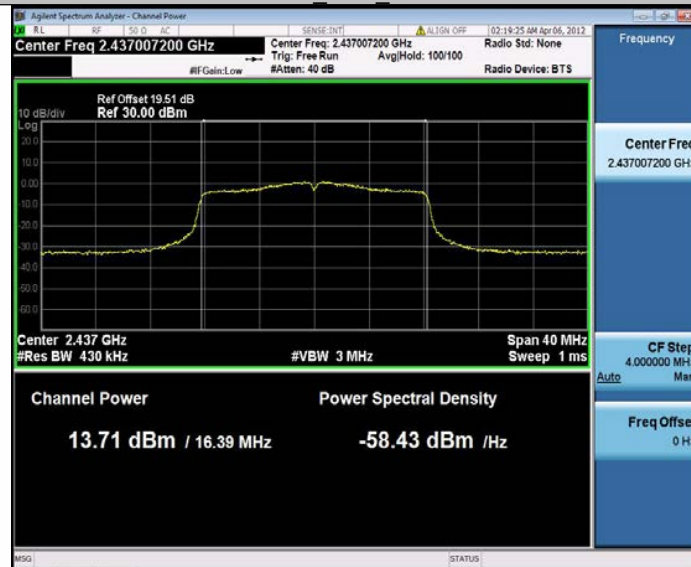
11G\_Ant2\_2412



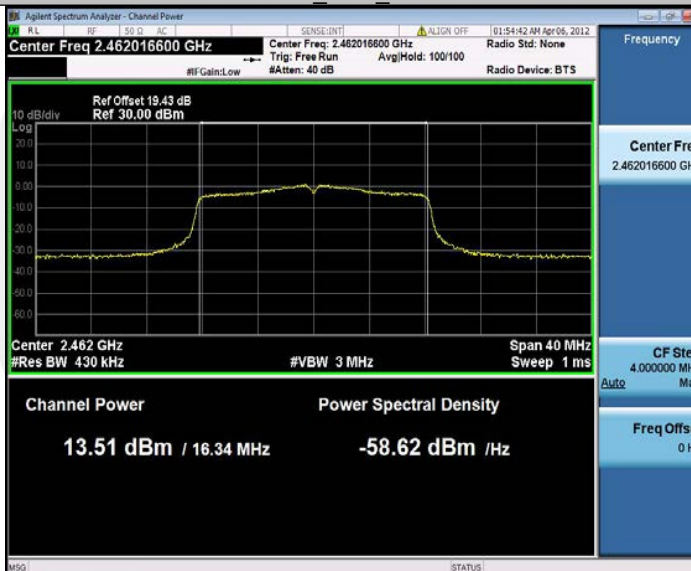
11G\_Ant1\_2437



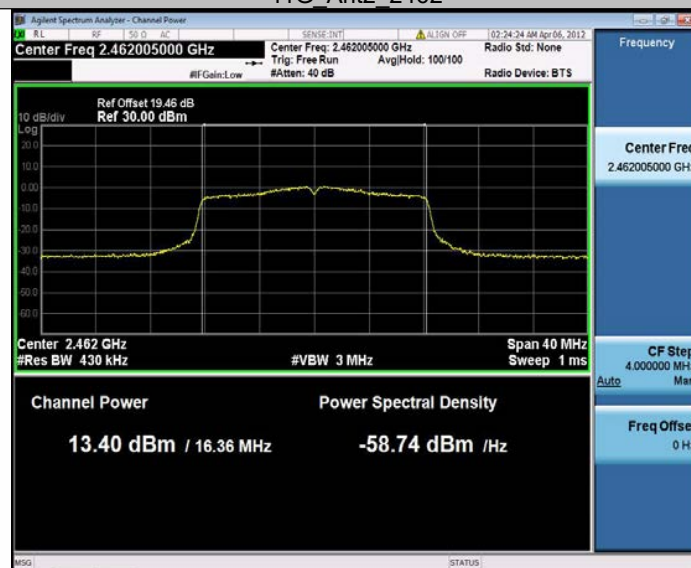
11G Ant2\_2437



11G Ant1\_2462



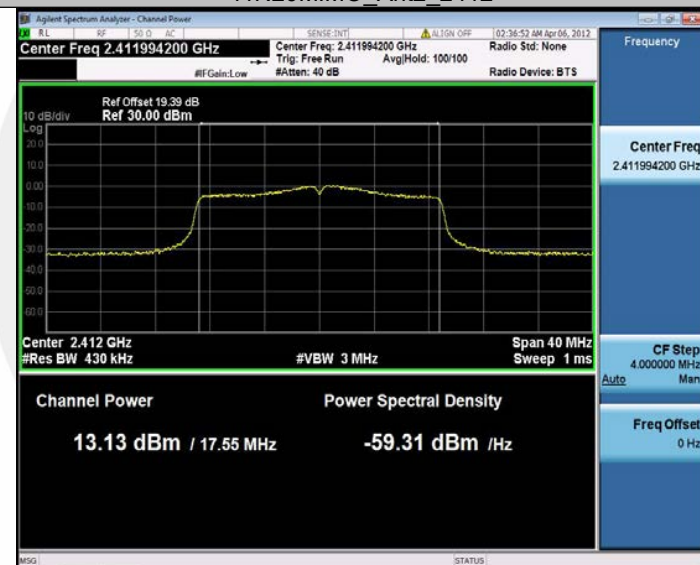
11G Ant2\_2462



11N20MIMO\_Ant1\_2412



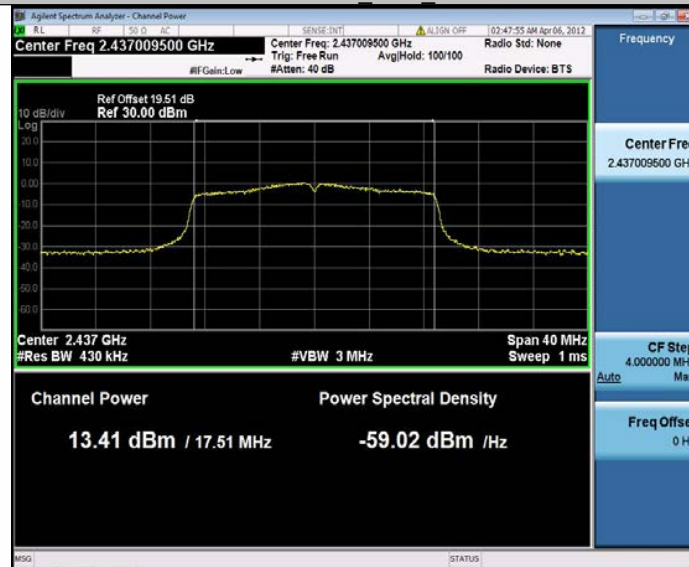
11N20MIMO\_Ant2\_2412



11N20MIMO\_Ant1\_2437



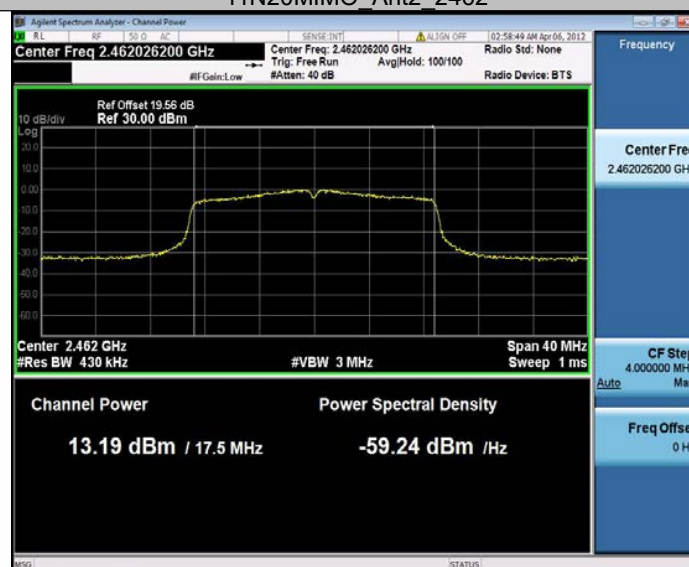
## 11N20MIMO\_Ant2\_2437



## 11N20MIMO\_Ant1\_2462



## 11N20MIMO\_Ant2\_2462



11N40MIMO\_Ant1\_2422



11N40MIMO\_Ant2\_2422



11N40MIMO\_Ant1\_2437



## 11N40MIMO\_Ant2\_2437



## 11N40MIMO\_Ant1\_2452



## 11N40MIMO\_Ant2\_2452



## 11AX20MIMO\_Ant1\_2412



## 11AX20MIMO\_Ant2\_2412



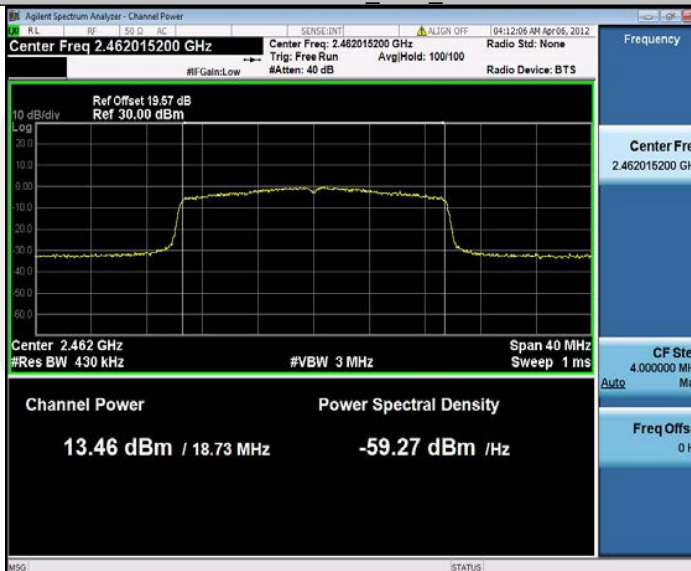
## 11AX20MIMO\_Ant1\_2437



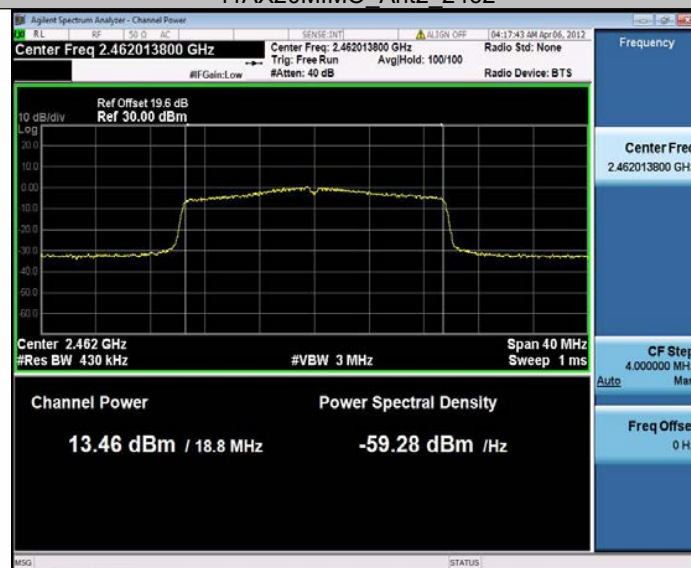
## 11AX20MIMO\_Ant2\_2437



## 11AX20MIMO\_Ant1\_2462



## 11AX20MIMO\_Ant2\_2462



## 11AX40MIMO\_Ant1\_2422



## 11AX40MIMO\_Ant2\_2422



## 11AX40MIMO\_Ant1\_2437



## 11AX40MIMO\_Ant2\_2437



## 11AX40MIMO\_Ant1\_2452



## 11AX40MIMO\_Ant2\_2452



## 8.5 MAXIMUM POWER SPECTRAL DENSITY

### 8.5.1 Applicable Standard

According to FCC Part15.247(e)

According to RSS-247 5.2(b)

According to RSS-Gen 6.12

According to 558074 D01 15.247 Meas Guidance v05r02 Section 8.4

According to ANSI C63.10 Section 11.10.5

### 8.5.2 Conformance Limit

The transmitter 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. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

### 8.5.3 Test Configuration

Test according to clause 7.1 radio frequency test setup

### 8.5.4 Test Procedure

- Measure the duty cycle (D) of the transmitter output signal
- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- Set VBW  $\geq [3 \times \text{RBW}]$ .
- Detector = power averaging (rms) or sample detector (when rms not available).
- Ensure that the number of measurement points in the sweep  $\geq [2 \times \text{span} / \text{RBW}]$ .
- Sweep time = auto couple.
- Do not use sweep triggering; allow sweep to "free run."
- Employ trace averaging (rms) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- Add  $[10 \log (1 / D)]$ , where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
- If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

### 8.5.5 Test Results

|                    |           |
|--------------------|-----------|
| Temperature:       | 25 °C     |
| Relative Humidity: | 45%       |
| ATM Pressure:      | 1011 mbar |
| Test Engineer:     | XXH       |

Note: N/A

| TestMode   | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|------------|---------|----------------|----------------------|-----------------|---------|
| 11B        | Ant1    | 2412           | -14.17               | ≤8.00           | PASS    |
|            | Ant2    | 2412           | -13.72               | ≤8.00           | PASS    |
|            | Ant1    | 2437           | -12.93               | ≤8.00           | PASS    |
|            | Ant2    | 2437           | -12.92               | ≤8.00           | PASS    |
|            | Ant1    | 2462           | -13.65               | ≤8.00           | PASS    |
|            | Ant2    | 2462           | -13.84               | ≤8.00           | PASS    |
| 11G        | Ant1    | 2412           | -17.77               | ≤8.00           | PASS    |
|            | Ant2    | 2412           | -17.21               | ≤8.00           | PASS    |
|            | Ant1    | 2437           | -17.18               | ≤8.00           | PASS    |
|            | Ant2    | 2437           | -16.72               | ≤8.00           | PASS    |
|            | Ant1    | 2462           | -16.78               | ≤8.00           | PASS    |
|            | Ant2    | 2462           | -16.87               | ≤8.00           | PASS    |
| 11N20MIMO  | Ant1    | 2412           | -18.63               | ≤8.00           | PASS    |
|            | Ant2    | 2412           | -17.14               | ≤8.00           | PASS    |
|            | total   | 2412           | -14.81               | ≤7.08           | PASS    |
|            | Ant1    | 2437           | -17.81               | ≤8.00           | PASS    |
|            | Ant2    | 2437           | -17.09               | ≤8.00           | PASS    |
|            | total   | 2437           | -14.42               | ≤7.08           | PASS    |
|            | Ant1    | 2462           | -17.82               | ≤8.00           | PASS    |
|            | Ant2    | 2462           | -17.50               | ≤8.00           | PASS    |
|            | total   | 2462           | -14.65               | ≤7.08           | PASS    |
| 11N40MIMO  | Ant1    | 2422           | -19.29               | ≤8.00           | PASS    |
|            | Ant2    | 2422           | -18.89               | ≤8.00           | PASS    |
|            | total   | 2422           | -16.08               | ≤7.08           | PASS    |
|            | Ant1    | 2437           | -19.38               | ≤8.00           | PASS    |
|            | Ant2    | 2437           | -19.68               | ≤8.00           | PASS    |
|            | total   | 2437           | -16.52               | ≤7.08           | PASS    |
|            | Ant1    | 2452           | -19.85               | ≤8.00           | PASS    |
|            | Ant2    | 2452           | -20.29               | ≤8.00           | PASS    |
|            | total   | 2452           | -17.05               | ≤7.08           | PASS    |
| 11AX20MIMO | Ant1    | 2412           | -20.41               | ≤8.00           | PASS    |
|            | Ant2    | 2412           | -19.12               | ≤8.00           | PASS    |
|            | total   | 2412           | -16.71               | ≤7.08           | PASS    |
|            | Ant1    | 2437           | -19.46               | ≤8.00           | PASS    |
|            | Ant2    | 2437           | -18.93               | ≤8.00           | PASS    |
|            | total   | 2437           | -16.18               | ≤7.08           | PASS    |
|            | Ant1    | 2462           | -19.27               | ≤8.00           | PASS    |
|            | Ant2    | 2462           | -19.34               | ≤8.00           | PASS    |
|            | total   | 2462           | -16.29               | ≤7.08           | PASS    |
| 11AX40MIMO | Ant1    | 2422           | -21.33               | ≤8.00           | PASS    |
|            | Ant2    | 2422           | -21.72               | ≤8.00           | PASS    |
|            | total   | 2422           | -18.51               | ≤7.08           | PASS    |
|            | Ant1    | 2437           | -22.36               | ≤8.00           | PASS    |
|            | Ant2    | 2437           | -22.05               | ≤8.00           | PASS    |
|            | total   | 2437           | -19.19               | ≤7.08           | PASS    |
|            | Ant1    | 2452           | -21.06               | ≤8.00           | PASS    |
|            | Ant2    | 2452           | -21.09               | ≤8.00           | PASS    |
|            | total   | 2452           | -18.06               | ≤7.08           | PASS    |

11B\_Ant1\_2412



11B\_Ant2\_2412



11B\_Ant1\_2437



11B\_Ant2\_2437



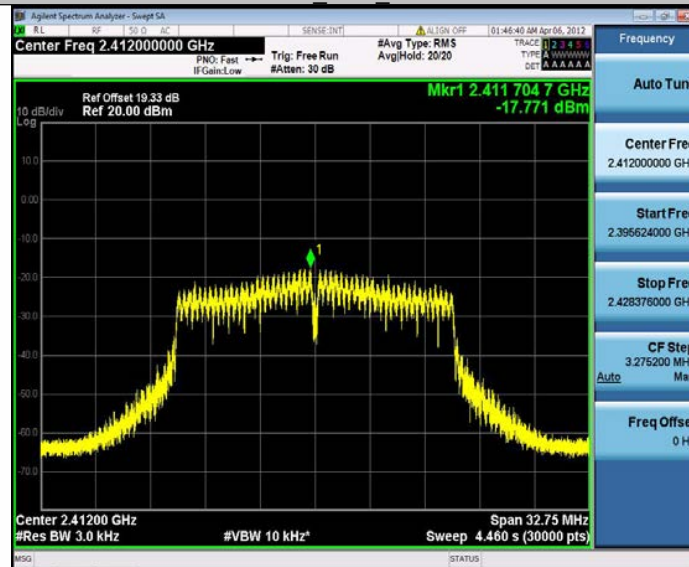
11B\_Ant1\_2462



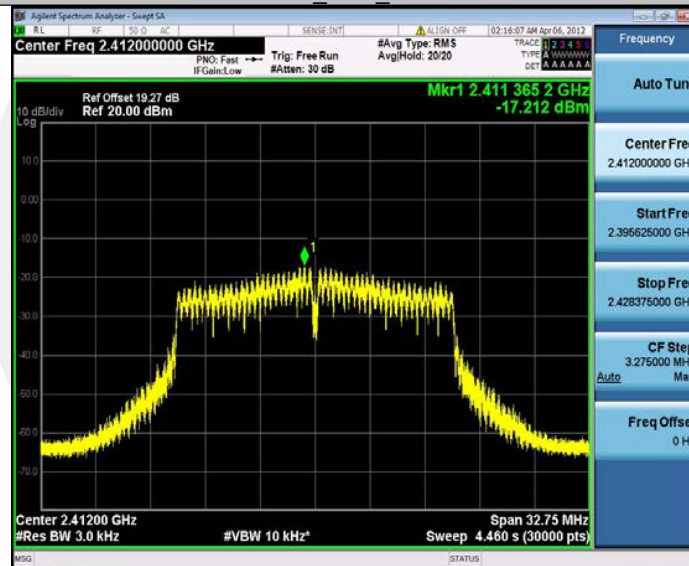
11B\_Ant2\_2462



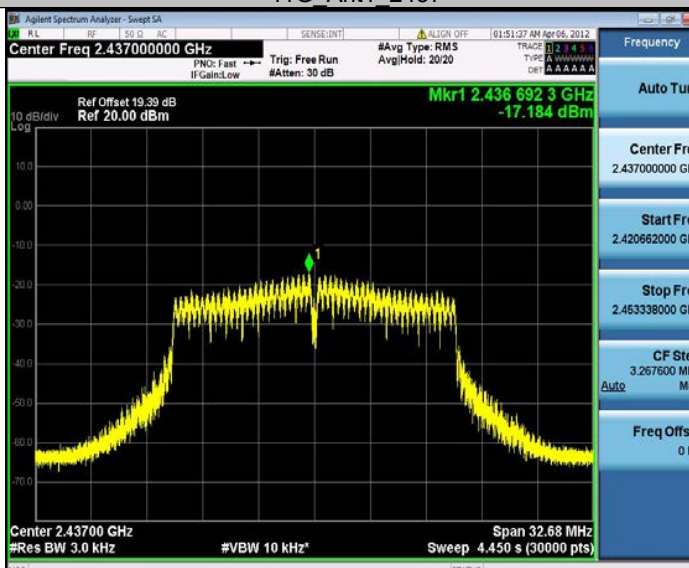
11G\_Ant1\_2412



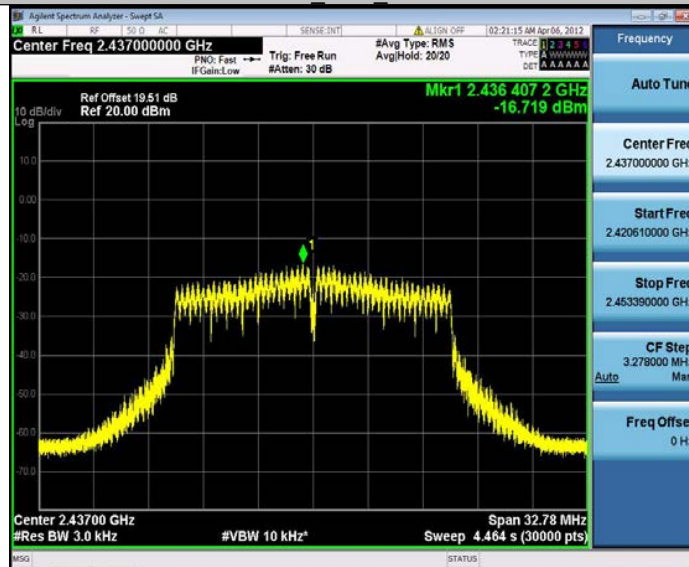
11G\_Ant2\_2412



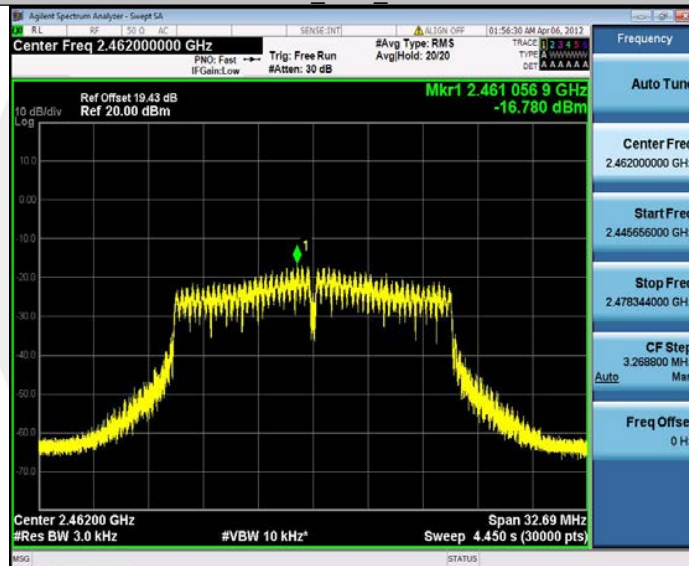
11G\_Ant1\_2437



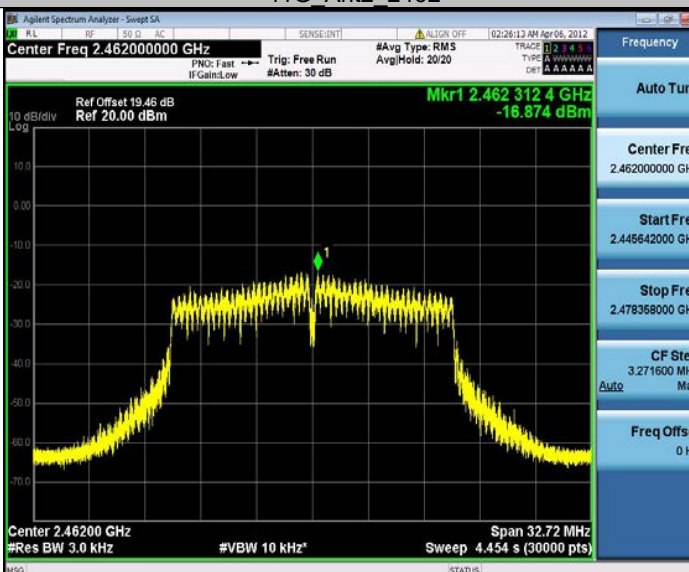
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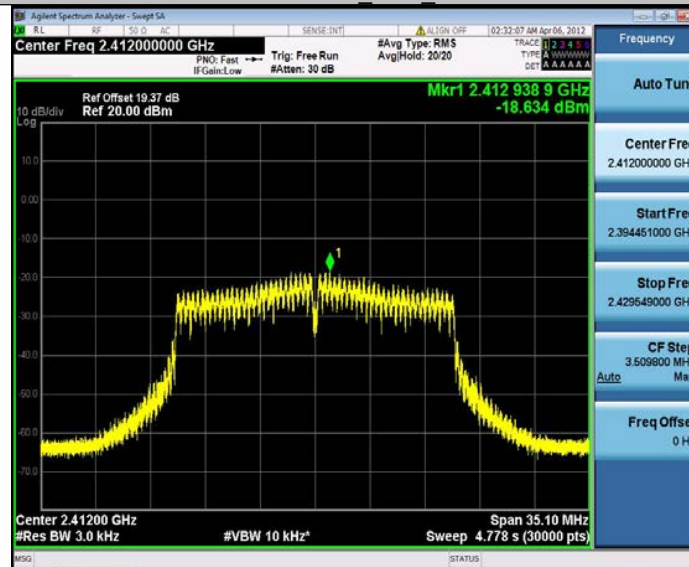
11G\_Ant1\_2462



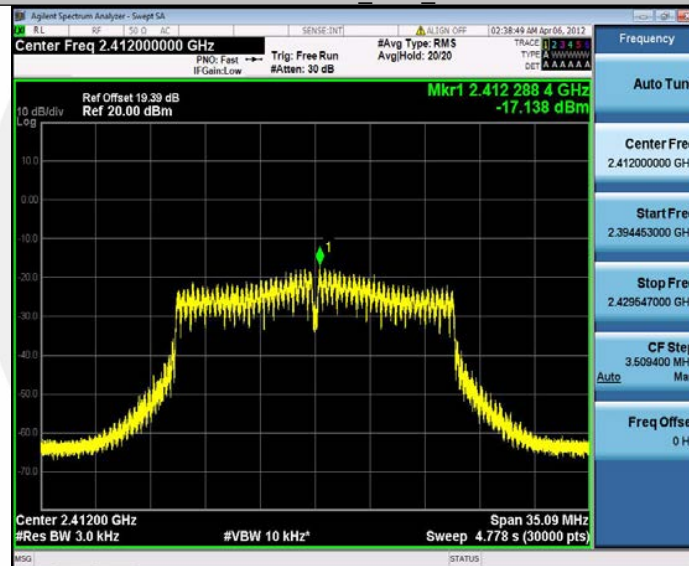
11G\_Ant2\_2462



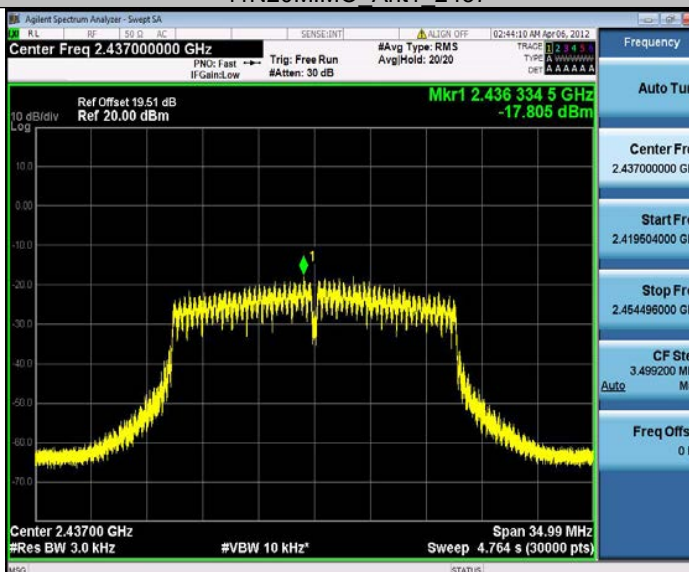
11N20MIMO\_Ant1\_2412



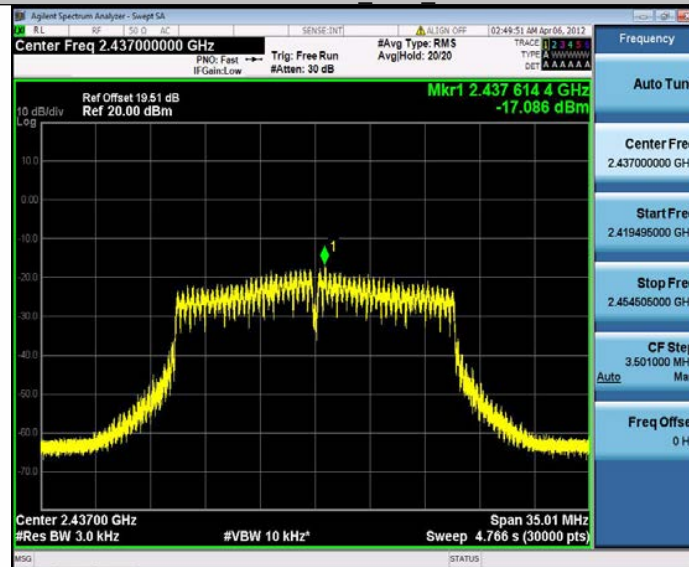
11N20MIMO\_Ant2\_2412



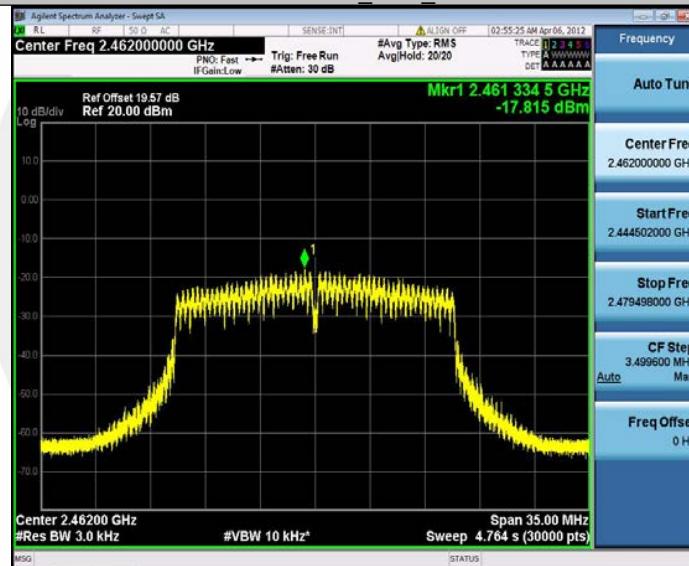
11N20MIMO\_Ant1\_2437



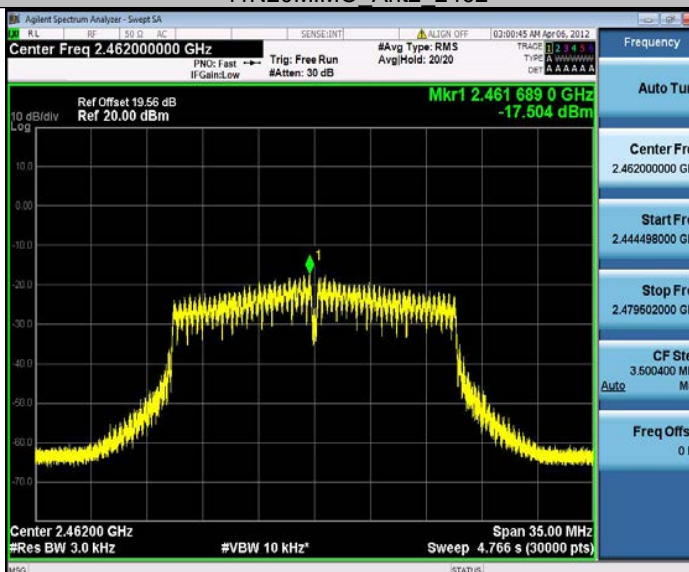
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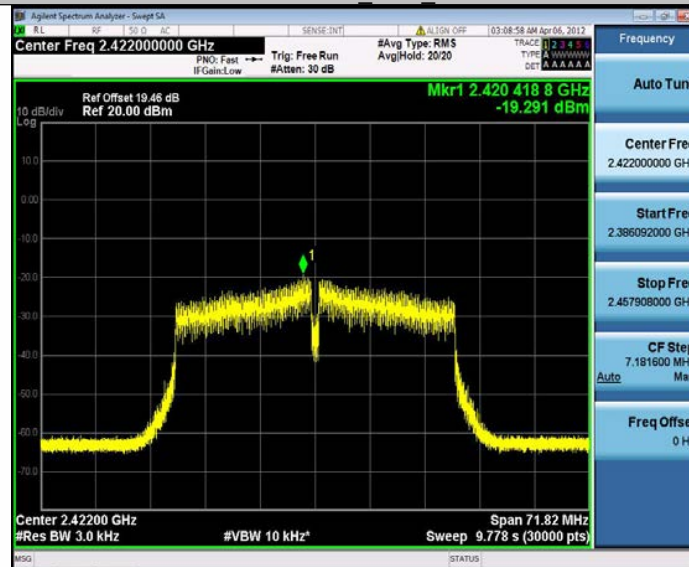
11N20MIMO\_Ant1\_2462



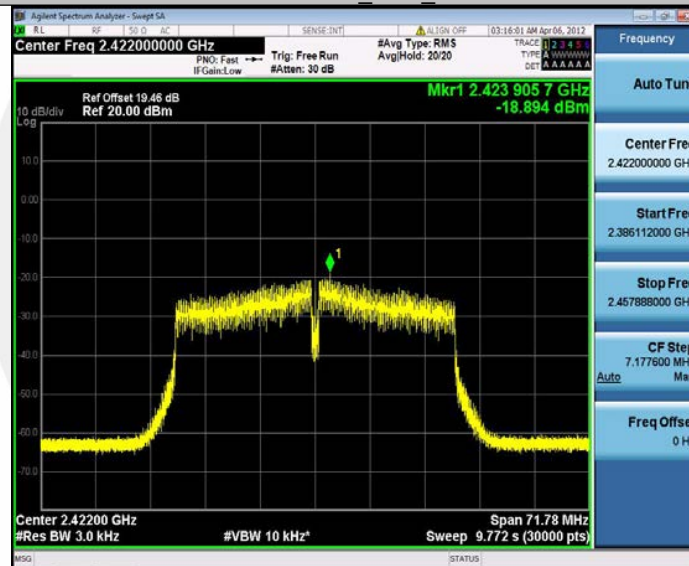
11N20MIMO\_Ant2\_2462



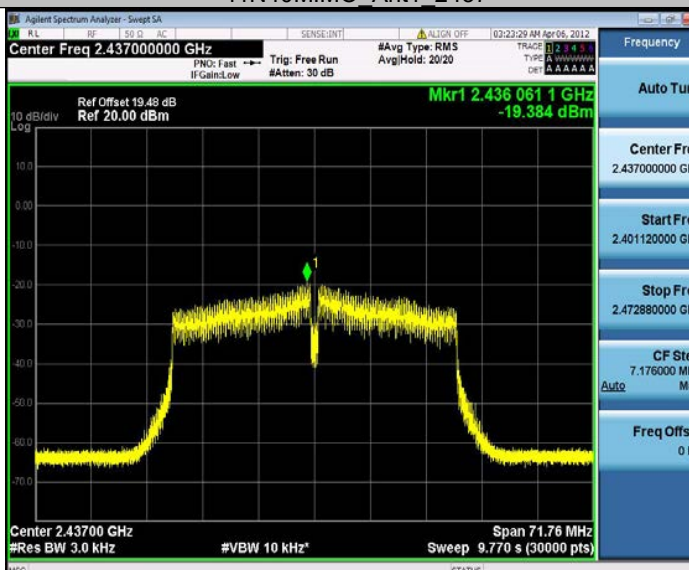
11N40MIMO\_Ant1\_2422



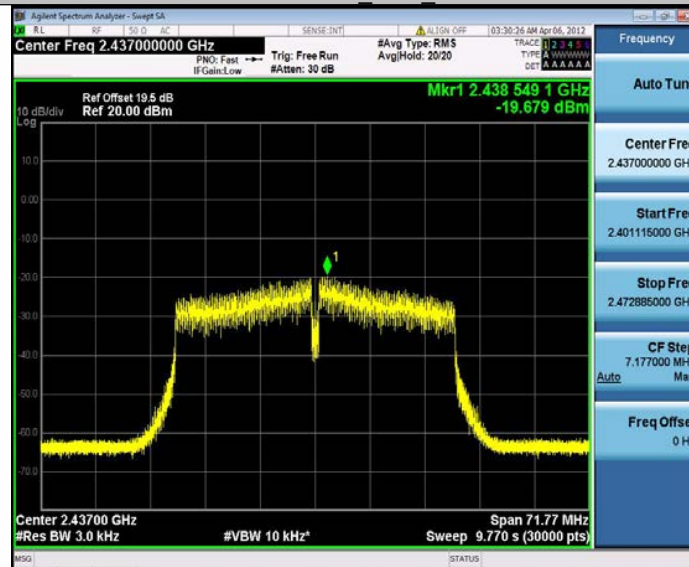
11N40MIMO\_Ant2\_2422



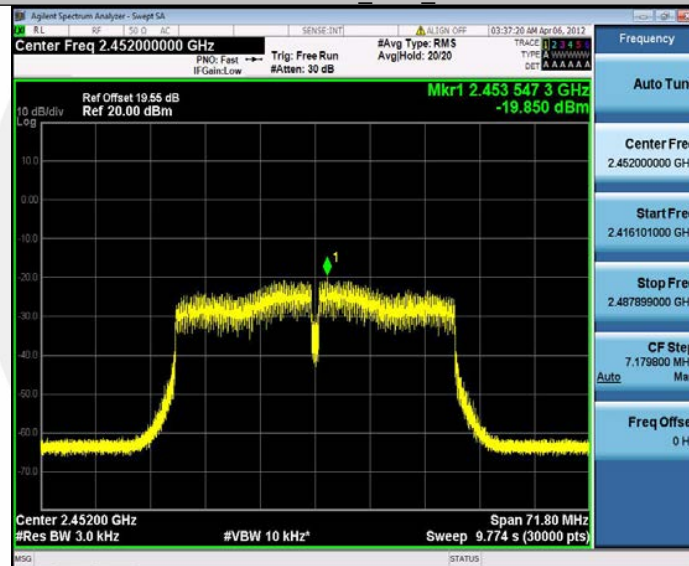
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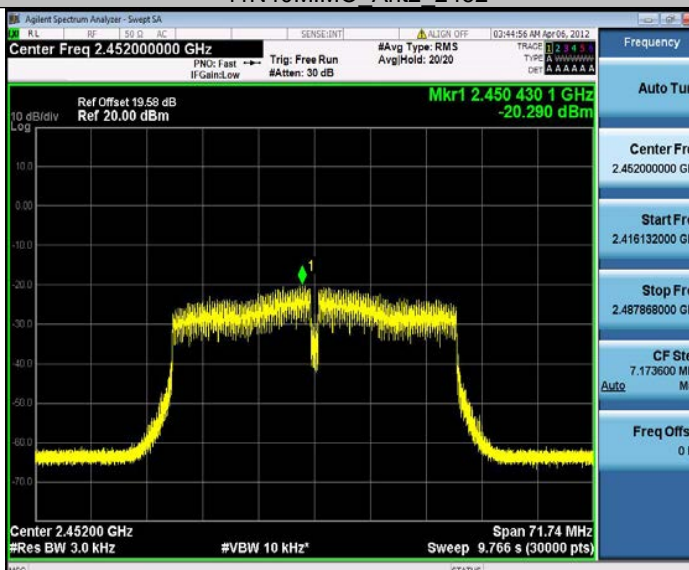
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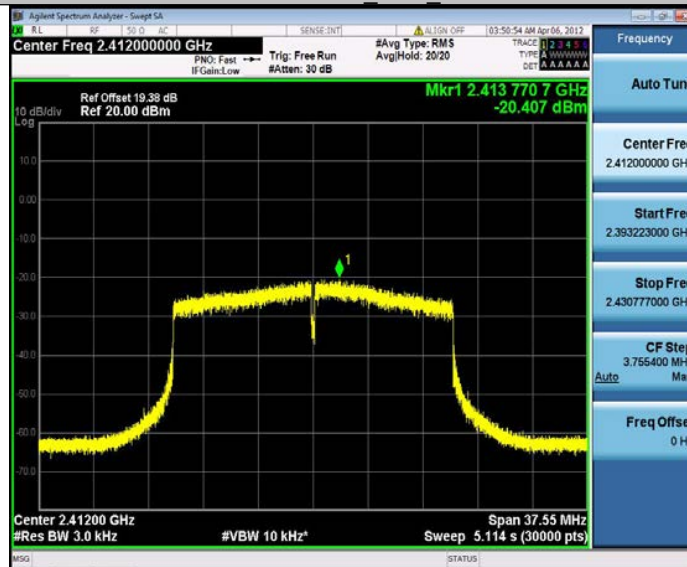
11N40MIMO\_Ant1\_2452



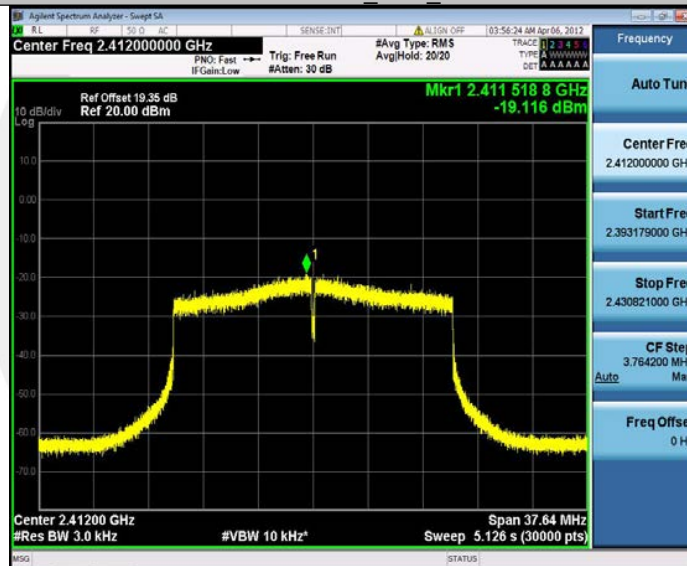
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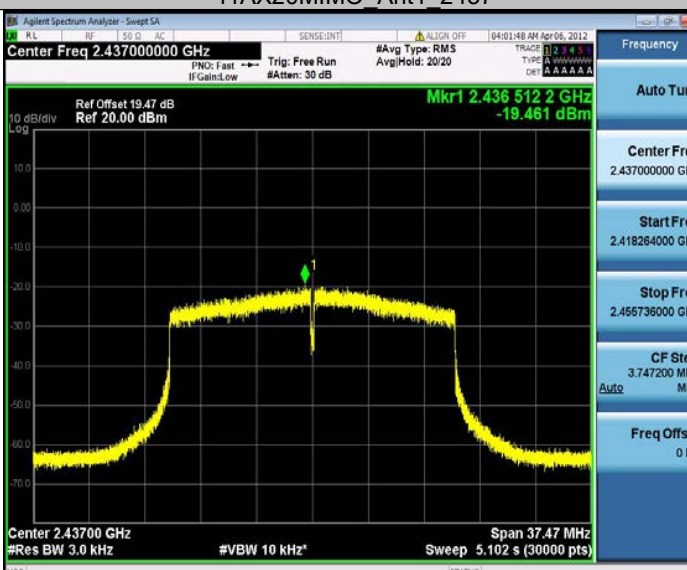
11AX20MIMO\_Ant1\_2412



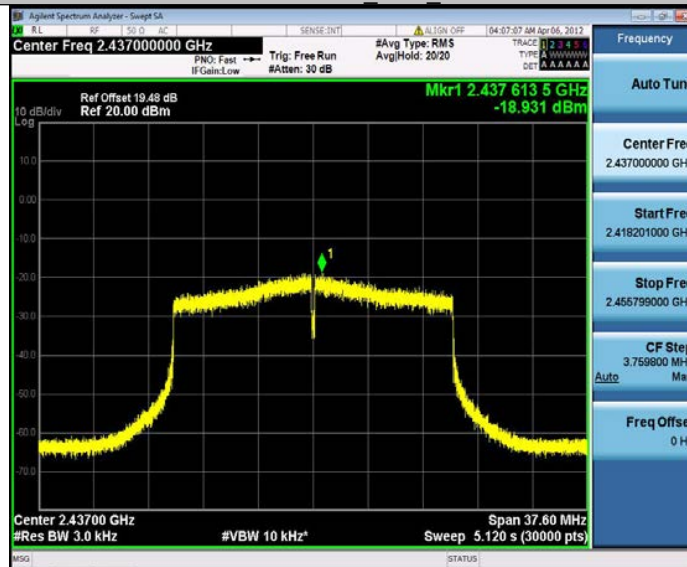
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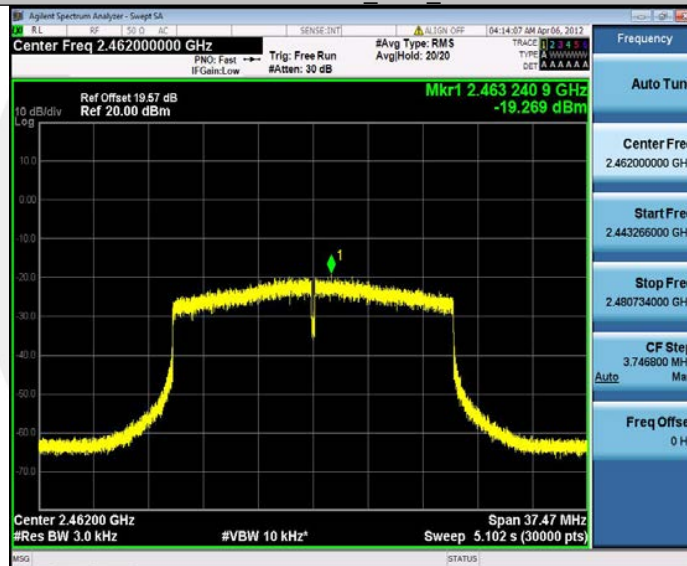
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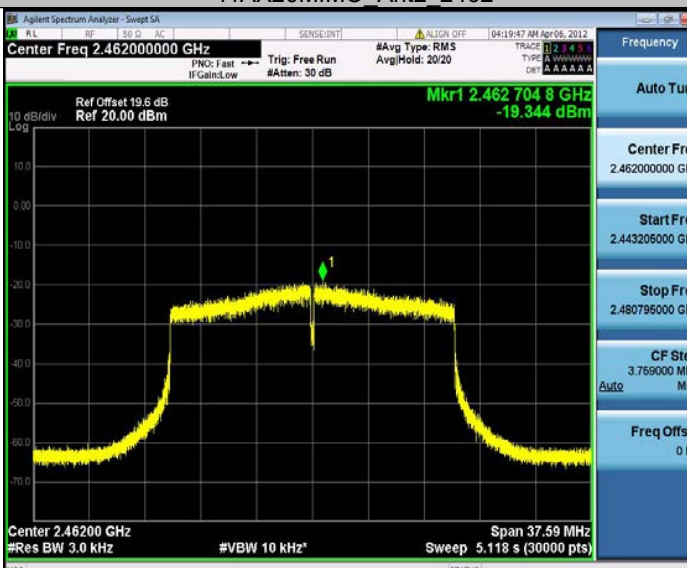
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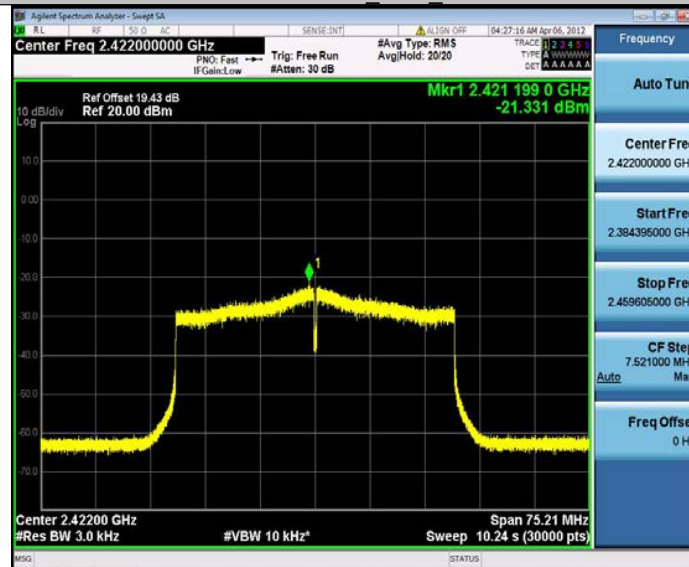
11AX20MIMO\_Ant1\_2462



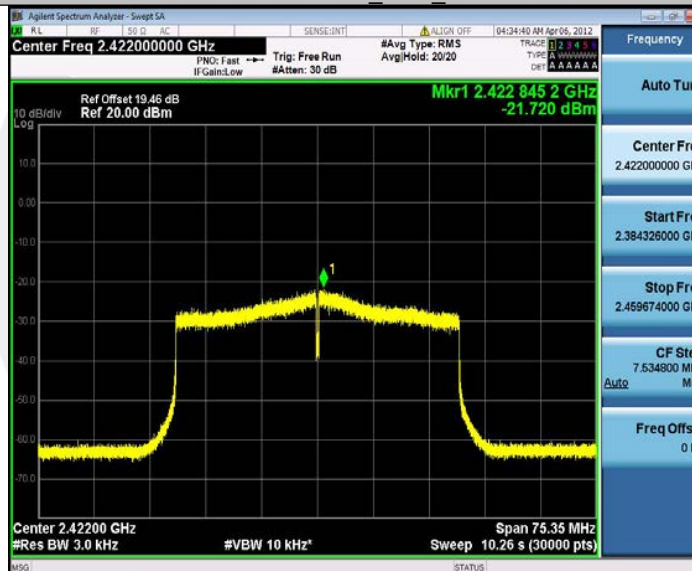
11AX20MIMO\_Ant2\_2462



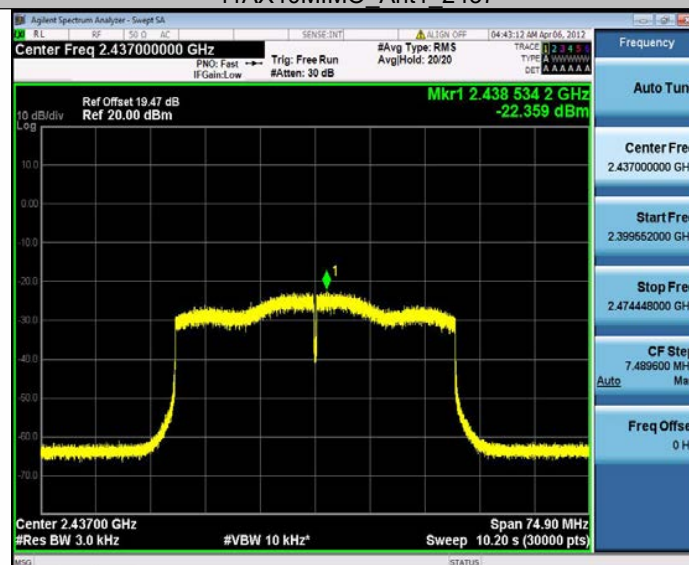
## 11AX40MIMO\_Ant1\_2422



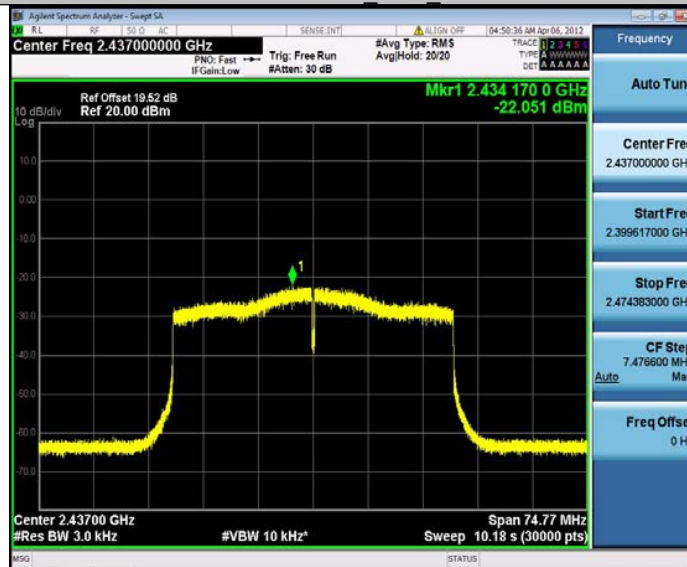
## 11AX40MIMO\_Ant2\_2422



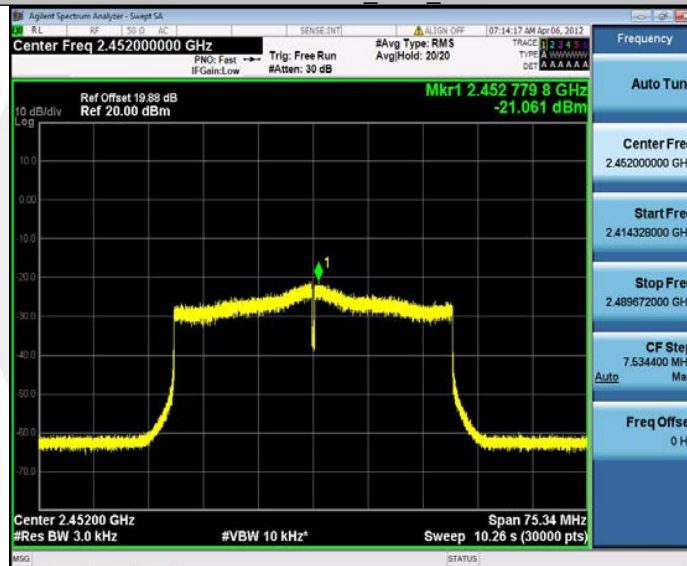
## 11AX40MIMO\_Ant1\_2437



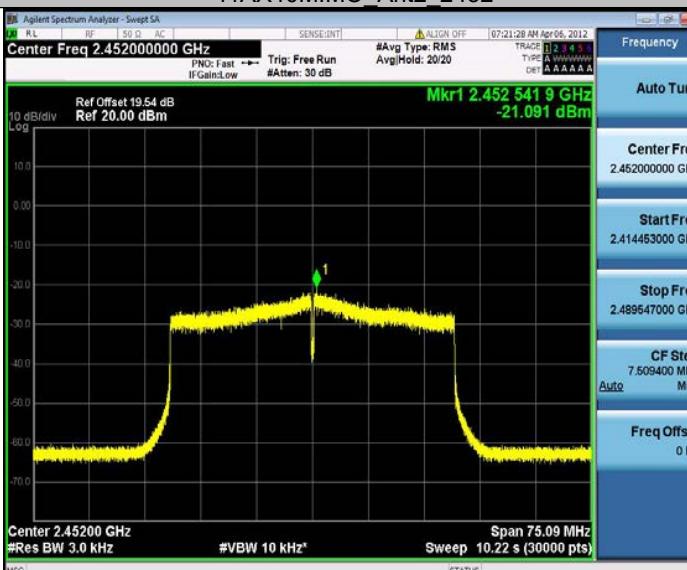
11AX40MIMO\_Ant2\_2437



11AX40MIMO\_Ant1\_2452



11AX40MIMO\_Ant2\_2452



## 8.6 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

### 8.6.1 Applicable Standard

According to FCC Part15.247(d)

According to RSS-247 5.5

According to 558074 D01 15.247 Meas Guidance v05r02 Section 8.5

According to ANSI C63.10 Section 11.11

### 8.6.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

### 8.6.3 Test Configuration

Test according to clause 7.1 radio frequency test setup

### 8.6.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

#### ■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to  $\geq 1.5$  times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW  $\geq 3 \times$  RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

#### ■ Band-edge measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation

Set RBW  $\geq 1\%$  of the span=100kHz Set VBW  $\geq 3 \times$  RBW

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.

#### ■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding

restricted frequency bands) are attenuated by at least the minimum requirements . Report the three highest emissions relative to the limit.

### 8.6.5 Test Results

|                    |           |
|--------------------|-----------|
| Temperature:       | 25 °C     |
| Relative Humidity: | 45%       |
| ATM Pressure:      | 1011 mbar |
| Test Engineer:     | XXH       |

Note: N/A

#### Band-edge measurement

| TestMode   | Antenna | ChName | Frequency [MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|-----------------|---------------|-------------|------------|---------|
| 11B        | Ant1    | Low    | 2412            | 3.74          | -37         | ≤-26.26    | PASS    |
|            | Ant2    | Low    | 2412            | 3.66          | -36.46      | ≤-26.34    | PASS    |
|            | Ant1    | High   | 2462            | 3.71          | -37.56      | ≤-26.3     | PASS    |
|            | Ant2    | High   | 2462            | 5.23          | -36.66      | ≤-24.77    | PASS    |
| 11G        | Ant1    | Low    | 2412            | 2.52          | -34.85      | ≤-27.48    | PASS    |
|            | Ant2    | Low    | 2412            | 4.68          | -34.2       | ≤-25.32    | PASS    |
|            | Ant1    | High   | 2462            | 3.24          | -36.99      | ≤-26.76    | PASS    |
|            | Ant2    | High   | 2462            | 3.71          | -37.58      | ≤-26.29    | PASS    |
| 11N20MIMO  | Ant1    | Low    | 2412            | 2.45          | -33.45      | ≤-27.55    | PASS    |
|            | Ant2    | Low    | 2412            | 3.64          | -33.84      | ≤-26.36    | PASS    |
|            | Ant1    | High   | 2462            | 4.33          | -37.34      | ≤-25.67    | PASS    |
|            | Ant2    | High   | 2462            | 2.02          | -37.54      | ≤-27.98    | PASS    |
| 11N40MIMO  | Ant1    | Low    | 2422            | 0.68          | -36.45      | ≤-29.32    | PASS    |
|            | Ant2    | Low    | 2422            | -1.17         | -36.82      | ≤-31.17    | PASS    |
|            | Ant1    | High   | 2452            | -0.51         | -37.4       | ≤-30.51    | PASS    |
|            | Ant2    | High   | 2452            | 0.74          | -36.59      | ≤-29.26    | PASS    |
| 11AX20MIMO | Ant1    | Low    | 2412            | 2.87          | -34.46      | ≤-27.13    | PASS    |
|            | Ant2    | Low    | 2412            | 2.71          | -33.72      | ≤-27.29    | PASS    |
|            | Ant1    | High   | 2462            | 4.28          | -37.28      | ≤-25.72    | PASS    |
|            | Ant2    | High   | 2462            | 4.11          | -37.05      | ≤-25.89    | PASS    |
| 11AX40MIMO | Ant1    | Low    | 2422            | -0.56         | -36.65      | ≤-30.56    | PASS    |
|            | Ant2    | Low    | 2422            | 0.54          | -37         | ≤-29.46    | PASS    |
|            | Ant1    | High   | 2452            | 0.82          | -36.52      | ≤-29.18    | PASS    |
|            | Ant2    | High   | 2452            | 0.01          | -35.83      | ≤-29.99    | PASS    |

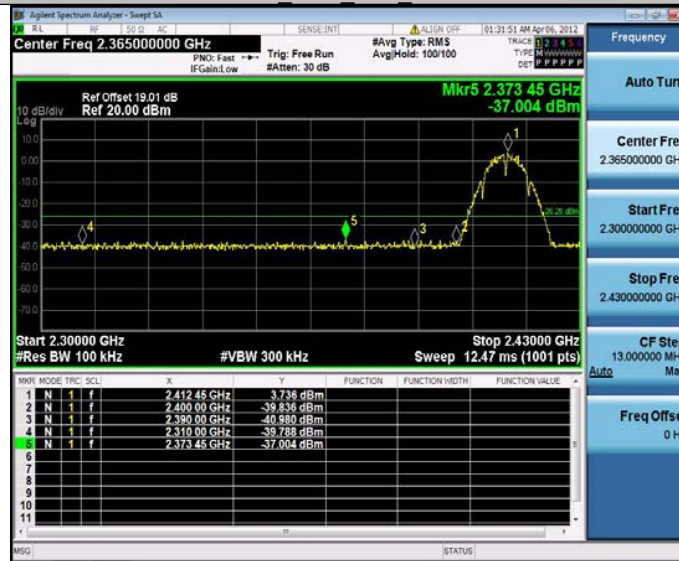
### Emission level measurement

| TestMode  | Antenna | Frequency [MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412            | Reference       | 2.44           | 2.44         | ---         | PASS    |
|           |         |                 | 30~1000         | 2.44           | -68.69       | ≤-27.56     | PASS    |
|           |         |                 | 1000~26500      | 2.44           | -53.1        | ≤-27.56     | PASS    |
|           | Ant2    | 2412            | Reference       | 2.44           | 2.44         | ---         | PASS    |
|           |         |                 | 30~1000         | 2.44           | -69.05       | ≤-27.56     | PASS    |
|           |         |                 | 1000~26500      | 2.44           | -53.35       | ≤-27.56     | PASS    |
|           | Ant1    | 2437            | Reference       | 2.84           | 2.84         | ---         | PASS    |
|           |         |                 | 30~1000         | 2.84           | -69.58       | ≤-27.16     | PASS    |
|           |         |                 | 1000~26500      | 2.84           | -44.19       | ≤-27.16     | PASS    |
|           | Ant2    | 2437            | Reference       | 3.52           | 3.52         | ---         | PASS    |
|           |         |                 | 30~1000         | 3.52           | -69.43       | ≤-26.48     | PASS    |
|           |         |                 | 1000~26500      | 3.52           | -52.47       | ≤-26.48     | PASS    |
|           | Ant1    | 2462            | Reference       | 3.10           | 3.10         | ---         | PASS    |
|           |         |                 | 30~1000         | 3.10           | -68.75       | ≤-26.9      | PASS    |
|           |         |                 | 1000~26500      | 3.10           | -52.71       | ≤-26.9      | PASS    |
|           | Ant2    | 2462            | Reference       | 3.87           | 3.87         | ---         | PASS    |
|           |         |                 | 30~1000         | 3.87           | -56.31       | ≤-26.13     | PASS    |
|           |         |                 | 1000~26500      | 3.87           | -53.21       | ≤-26.13     | PASS    |
| 11G       | Ant1    | 2412            | Reference       | -0.08          | -0.08        | ---         | PASS    |
|           |         |                 | 30~1000         | -0.08          | -68.85       | ≤-30.08     | PASS    |
|           |         |                 | 1000~26500      | -0.08          | -53.25       | ≤-30.08     | PASS    |
|           | Ant2    | 2412            | Reference       | 1.44           | 1.44         | ---         | PASS    |
|           |         |                 | 30~1000         | 1.44           | -68.29       | ≤-28.56     | PASS    |
|           |         |                 | 1000~26500      | 1.44           | -53.24       | ≤-28.56     | PASS    |
|           | Ant1    | 2437            | Reference       | 2.76           | 2.76         | ---         | PASS    |
|           |         |                 | 30~1000         | 2.76           | -69.14       | ≤-27.24     | PASS    |
|           |         |                 | 1000~26500      | 2.76           | -53.44       | ≤-27.24     | PASS    |
|           | Ant2    | 2437            | Reference       | 1.02           | 1.02         | ---         | PASS    |
|           |         |                 | 30~1000         | 1.02           | -69.33       | ≤-28.98     | PASS    |
|           |         |                 | 1000~26500      | 1.02           | -52.54       | ≤-28.98     | PASS    |
|           | Ant1    | 2462            | Reference       | 3.38           | 3.38         | ---         | PASS    |
|           |         |                 | 30~1000         | 3.38           | -67          | ≤-26.62     | PASS    |
|           |         |                 | 1000~26500      | 3.38           | -53.52       | ≤-26.62     | PASS    |
|           | Ant2    | 2462            | Reference       | 1.72           | 1.72         | ---         | PASS    |
|           |         |                 | 30~1000         | 1.72           | -65.13       | ≤-28.28     | PASS    |
|           |         |                 | 1000~26500      | 1.72           | -52.57       | ≤-28.28     | PASS    |
| 11N20MIMO | Ant1    | 2412            | Reference       | -0.91          | -0.91        | ---         | PASS    |
|           |         |                 | 30~1000         | -0.91          | -69.33       | ≤-30.91     | PASS    |
|           |         |                 | 1000~26500      | -0.91          | -52.99       | ≤-30.91     | PASS    |
|           | Ant2    | 2412            | Reference       | 0.46           | 0.46         | ---         | PASS    |
|           |         |                 | 30~1000         | 0.46           | -58.27       | ≤-29.54     | PASS    |
|           |         |                 | 1000~26500      | 0.46           | -53.45       | ≤-29.54     | PASS    |
|           | Ant1    | 2437            | Reference       | 1.62           | 1.62         | ---         | PASS    |
|           |         |                 | 30~1000         | 1.62           | -69.42       | ≤-28.38     | PASS    |
|           |         |                 | 1000~26500      | 1.62           | -53.5        | ≤-28.38     | PASS    |
|           | Ant2    | 2437            | Reference       | 0.09           | 0.09         | ---         | PASS    |
|           |         |                 | 30~1000         | 0.09           | -69.22       | ≤-29.91     | PASS    |
|           |         |                 | 1000~26500      | 0.09           | -53.32       | ≤-29.91     | PASS    |
|           | Ant1    | 2462            | Reference       | 0.26           | 0.26         | ---         | PASS    |
|           |         |                 | 30~1000         | 0.26           | -68.66       | ≤-29.74     | PASS    |
|           |         |                 | 1000~26500      | 0.26           | -53.49       | ≤-29.74     | PASS    |
|           | Ant2    | 2462            | Reference       | 0.20           | 0.20         | ---         | PASS    |
|           |         |                 | 30~1000         | 0.20           | -68.8        | ≤-29.8      | PASS    |

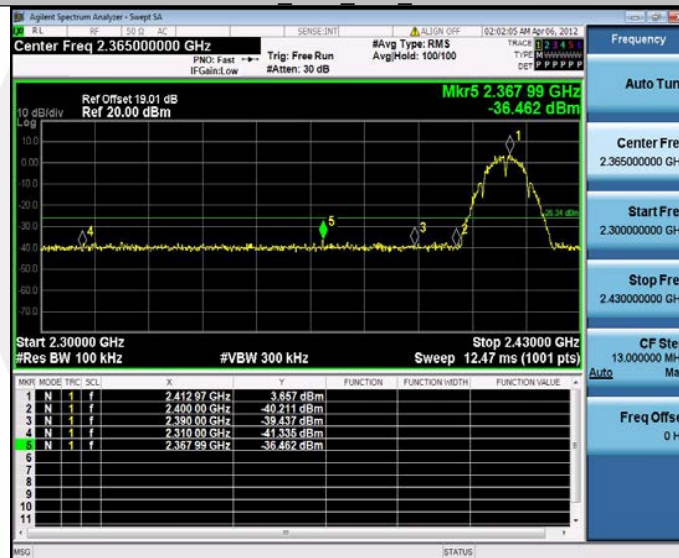
|            |      |      |            |       |        |               |      |
|------------|------|------|------------|-------|--------|---------------|------|
|            |      |      | 1000~26500 | 0.20  | -53.08 | $\leq -29.8$  | PASS |
| 11N40MIMO  | Ant1 | 2422 | Reference  | -2.14 | -2.14  | ---           | PASS |
|            |      |      | 30~1000    | -2.14 | -69.68 | $\leq -32.14$ | PASS |
|            |      |      | 1000~26500 | -2.14 | -52.95 | $\leq -32.14$ | PASS |
|            | Ant2 | 2422 | Reference  | -1.89 | -1.89  | ---           | PASS |
|            |      |      | 30~1000    | -1.89 | -69.15 | $\leq -31.89$ | PASS |
|            |      |      | 1000~26500 | -1.89 | -53.36 | $\leq -31.89$ | PASS |
|            | Ant1 | 2437 | Reference  | -2.35 | -2.35  | ---           | PASS |
|            |      |      | 30~1000    | -2.35 | -68.78 | $\leq -32.35$ | PASS |
|            |      |      | 1000~26500 | -2.35 | -52.99 | $\leq -32.35$ | PASS |
|            | Ant2 | 2437 | Reference  | -2.13 | -2.13  | ---           | PASS |
|            |      |      | 30~1000    | -2.13 | -69.35 | $\leq -32.13$ | PASS |
|            |      |      | 1000~26500 | -2.13 | -53.24 | $\leq -32.13$ | PASS |
|            | Ant1 | 2452 | Reference  | -2.02 | -2.02  | ---           | PASS |
|            |      |      | 30~1000    | -2.02 | -68.89 | $\leq -32.02$ | PASS |
|            |      |      | 1000~26500 | -2.02 | -53.38 | $\leq -32.02$ | PASS |
|            | Ant2 | 2452 | Reference  | -2.48 | -2.48  | ---           | PASS |
|            |      |      | 30~1000    | -2.48 | -69.02 | $\leq -32.48$ | PASS |
|            |      |      | 1000~26500 | -2.48 | -52.36 | $\leq -32.48$ | PASS |
| 11AX20MIMO | Ant1 | 2412 | Reference  | 1.44  | 1.44   | ---           | PASS |
|            |      |      | 30~1000    | 1.44  | -69.68 | $\leq -28.56$ | PASS |
|            |      |      | 1000~26500 | 1.44  | -53.62 | $\leq -28.56$ | PASS |
|            | Ant2 | 2412 | Reference  | 0.66  | 0.66   | ---           | PASS |
|            |      |      | 30~1000    | 0.66  | -69.14 | $\leq -29.34$ | PASS |
|            |      |      | 1000~26500 | 0.66  | -45.38 | $\leq -29.34$ | PASS |
|            | Ant1 | 2437 | Reference  | 0.79  | 0.79   | ---           | PASS |
|            |      |      | 30~1000    | 0.79  | -68.54 | $\leq -29.21$ | PASS |
|            |      |      | 1000~26500 | 0.79  | -53.52 | $\leq -29.21$ | PASS |
|            | Ant2 | 2437 | Reference  | 0.72  | 0.72   | ---           | PASS |
|            |      |      | 30~1000    | 0.72  | -68.96 | $\leq -29.28$ | PASS |
|            |      |      | 1000~26500 | 0.72  | -53.24 | $\leq -29.28$ | PASS |
|            | Ant1 | 2462 | Reference  | -0.10 | -0.10  | ---           | PASS |
|            |      |      | 30~1000    | -0.10 | -68.81 | $\leq -30.1$  | PASS |
|            |      |      | 1000~26500 | -0.10 | -53.24 | $\leq -30.1$  | PASS |
|            | Ant2 | 2462 | Reference  | 1.60  | 1.60   | ---           | PASS |
|            |      |      | 30~1000    | 1.60  | -69.15 | $\leq -28.4$  | PASS |
|            |      |      | 1000~26500 | 1.60  | -52.32 | $\leq -28.4$  | PASS |
| 11AX40MIMO | Ant1 | 2422 | Reference  | -2.04 | -2.04  | ---           | PASS |
|            |      |      | 30~1000    | -2.04 | -68.89 | $\leq -32.04$ | PASS |
|            |      |      | 1000~26500 | -2.04 | -53.32 | $\leq -32.04$ | PASS |
|            | Ant2 | 2422 | Reference  | -1.50 | -1.50  | ---           | PASS |
|            |      |      | 30~1000    | -1.50 | -69.35 | $\leq -31.5$  | PASS |
|            |      |      | 1000~26500 | -1.50 | -52.9  | $\leq -31.5$  | PASS |
|            | Ant1 | 2437 | Reference  | -2.85 | -2.85  | ---           | PASS |
|            |      |      | 30~1000    | -2.85 | -69.17 | $\leq -32.85$ | PASS |
|            |      |      | 1000~26500 | -2.85 | -52.5  | $\leq -32.85$ | PASS |
|            | Ant2 | 2437 | Reference  | -1.24 | -1.24  | ---           | PASS |
|            |      |      | 30~1000    | -1.24 | -68.45 | $\leq -31.24$ | PASS |
|            |      |      | 1000~26500 | -1.24 | -53.4  | $\leq -31.63$ | PASS |
|            | Ant1 | 2452 | Reference  | -1.63 | -1.63  | ---           | PASS |
|            |      |      | 30~1000    | -1.63 | -69.16 | $\leq -31.63$ | PASS |
|            |      |      | 1000~26500 | -1.63 | -53.4  | $\leq -31.63$ | PASS |
|            | Ant2 | 2452 | Reference  | -3.08 | -3.08  | ---           | PASS |
|            |      |      | 30~1000    | -3.08 | -68.9  | $\leq -33.08$ | PASS |
|            |      |      | 1000~26500 | -3.08 | -53.52 | $\leq -33.08$ | PASS |

## Band-edge measurement

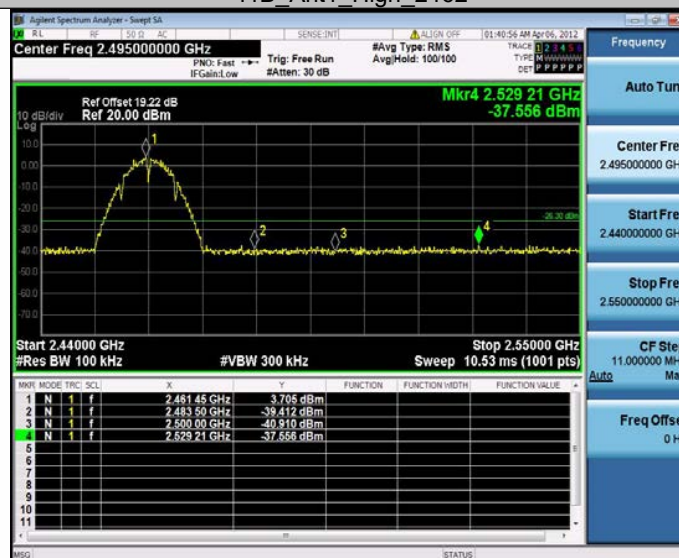
11B\_Ant1\_Low\_2412



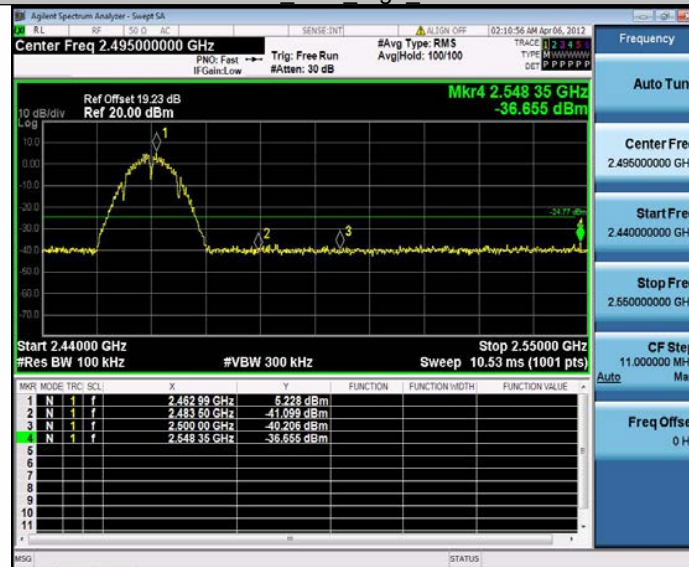
11B\_Ant2\_Low\_2412



11B\_Ant1\_High\_2462



11B\_Ant2\_High\_2462



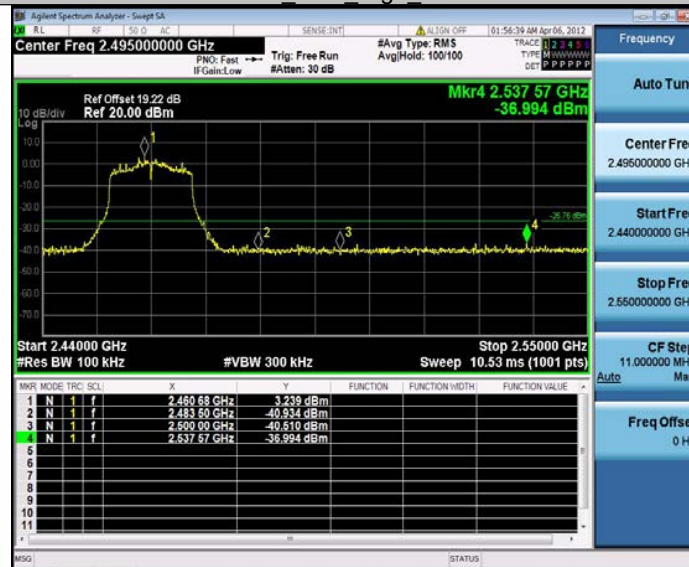
11G\_Ant1\_Low\_2412



11G\_Ant2\_Low\_2412



## 11G\_Ant1\_High\_2462



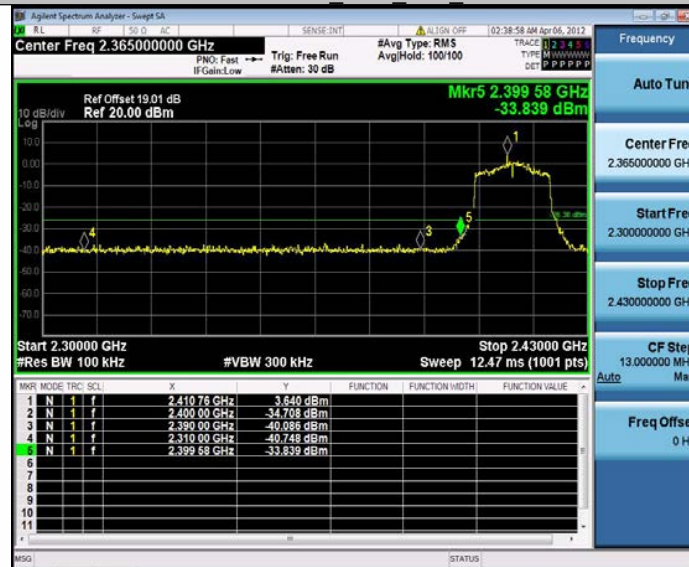
## 11G\_Ant2\_High\_2462



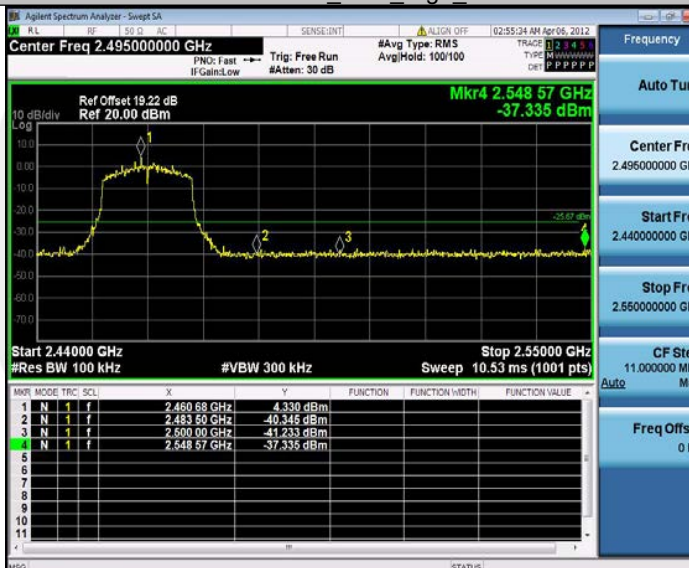
## 11N20MIMO\_Ant1\_Low\_2412



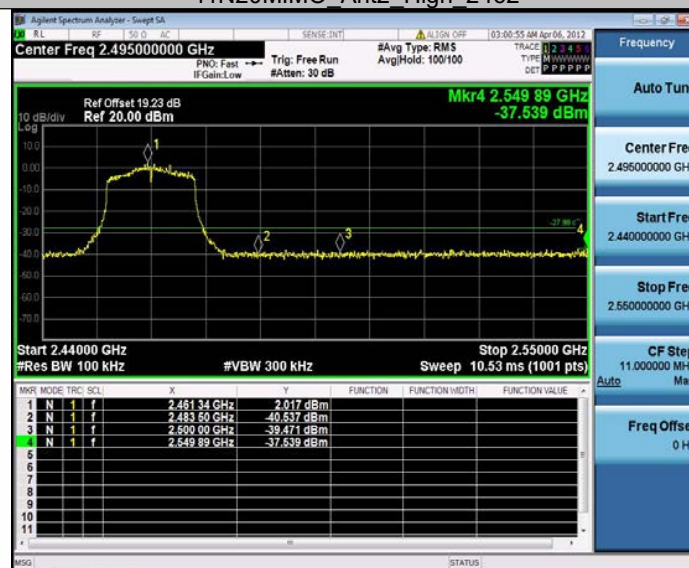
## 11N20MIMO\_Ant2\_Low\_2412



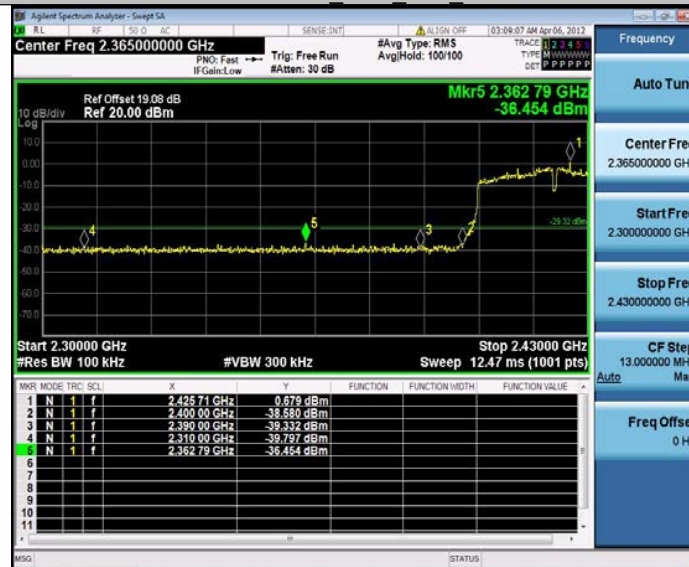
## 11N20MIMO\_Ant1\_High\_2462



## 11N20MIMO\_Ant2\_High\_2462



## 11N40MIMO\_Ant1\_Low\_2422



## 11N40MIMO\_Ant2\_Low\_2422



## 11N40MIMO\_Ant1\_High\_2452

