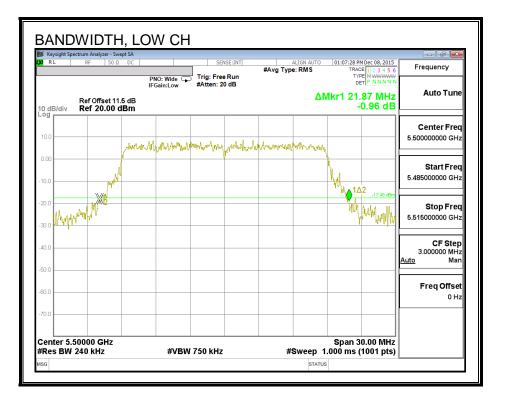
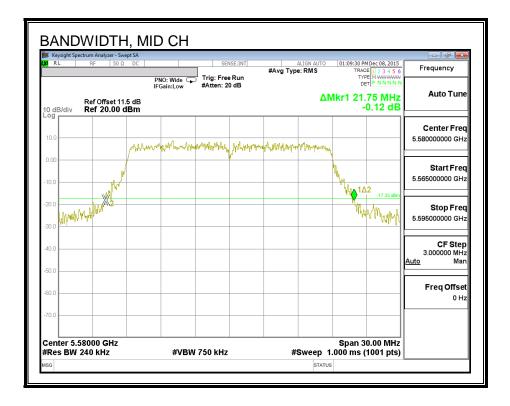
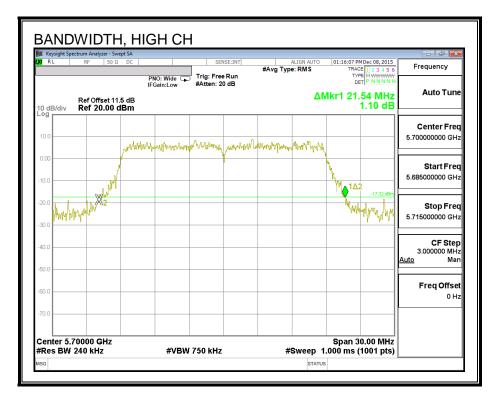
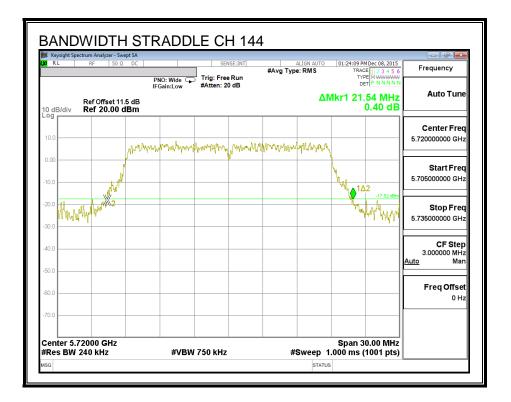
26 dB BANDWIDTH





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8.39.2. 99% BANDWIDTH

<u>LIMITS</u>

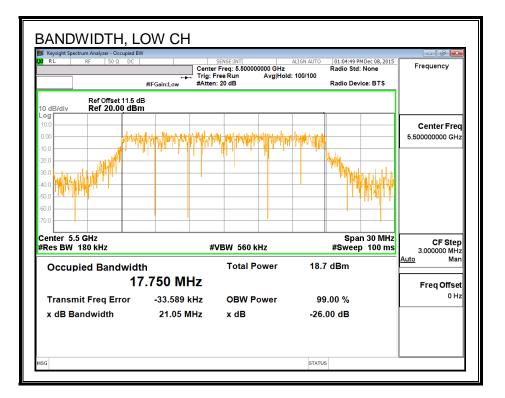
None; for reporting purposes only.

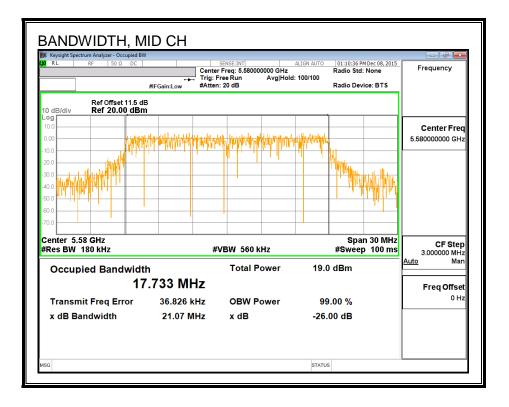
<u>RESULTS</u>

| Channel | Frequency | 99% Bandwidth | |
|---------|-----------|---------------|--|
| | (MHz) | (MHz) | |
| Low | 5500 | 17.750 | |
| Mid | 5580 | 17.733 | |
| High | 5700 | 17.702 | |
| 144 | 5720 | 17.770 | |

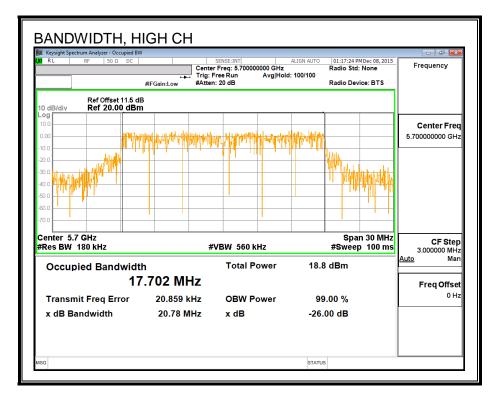
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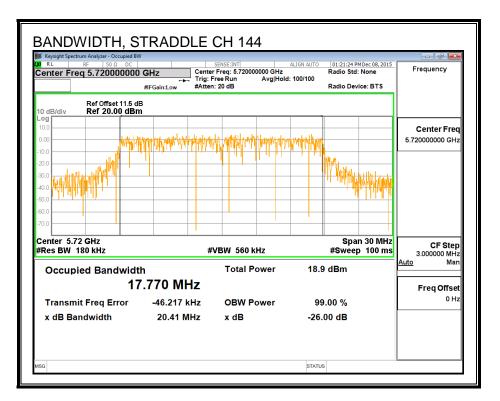
99% BANDWIDTH





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8.39.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

| Channel | Frequency | Power |
|---------|-----------|-------|
| | (MHz) | (dBm) |
| Low | 5500 | 15.98 |
| Mid | 5580 | 15.91 |
| High | 5700 | 15.50 |
| 144 | 5720 | 15.91 |

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8.39.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1– MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

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

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

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RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency | Min | Min | Directional | Power | PSD |
|---------|-----------|-------|--------|-------------|-------|-------|
| | | 26 dB | 99% | Gain | Limit | Limit |
| | | BW | BW | | | |
| | (MHz) | (MHz) | (MHz) | (dBi) | (dBm) | (dBm) |
| Low | 5500 | 21.87 | 17.750 | 4.03 | 23.49 | 11.00 |
| Mid | 5580 | 21.75 | 17.733 | 4.03 | 23.49 | 11.00 |
| High | 5700 | 21.54 | 17.702 | 4.03 | 23.48 | 11.00 |
| | - | - | - | - | | |

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

Output Power Results

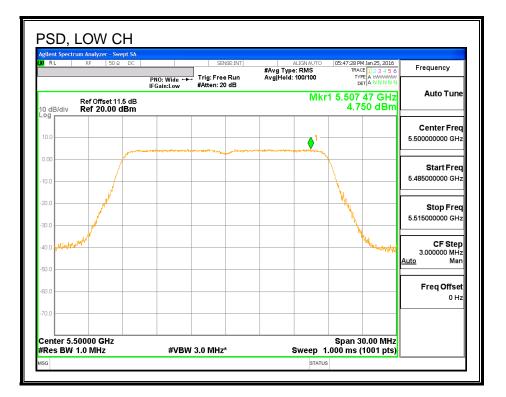
| Channel | Frequency | Antenna A | Total | Power | Power |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5500 | 15.98 | 15.98 | 23.49 | -7.51 |
| Mid | 5580 | 15.91 | 15.91 | 23.49 | -7.58 |
| High | 5700 | 15.50 | 15.50 | 23.48 | -7.98 |

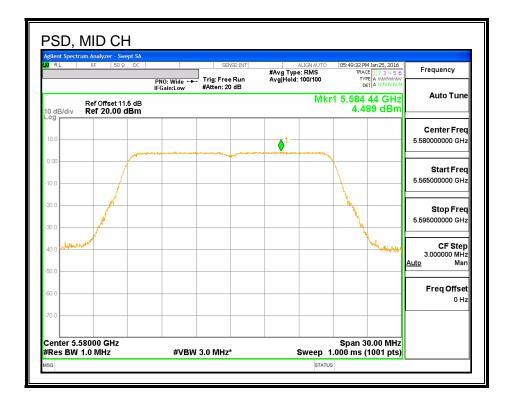
PSD Results

| Channel | Frequency | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5500 | 4.750 | 4.750 | 11.00 | -6.25 |
| Mid | 5580 | 4.489 | 4.489 | 11.00 | -6.51 |
| High | 5700 | 4.167 | 4.167 | 11.00 | -6.83 |

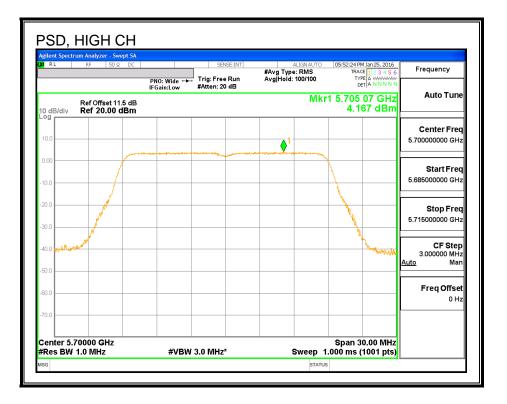
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<u>PSD</u>





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8.40. 802.11ac VHT20 ANTENNA - A STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------------|-------|-------|
| | | 26 dB | Gain | Gain | Limit | Limit |
| | | BW | for Power | for PSD | | |
| | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| 144 | 5720 | 15.77 | 4.03 | 4.03 | 22.98 | 11.00 |

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

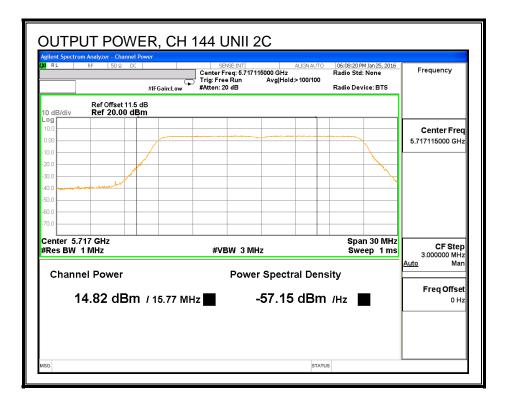
Output Power Results

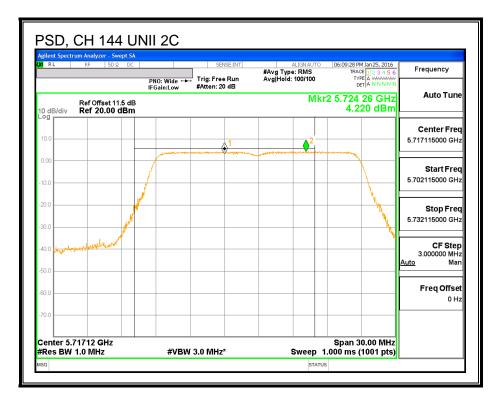
| Channel | Frequency | Antenna A | Total | Power | Power |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 14.82 | 14.82 | 22.98 | -8.16 |

PSD Results

| Channel | Frequency | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 4.220 | 4.220 | 11.00 | -6.78 |

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UNII-3 BAND

Antenna Gain and Limit

| Channel | Frequency | Min | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------|-------|
| | | 26 dB | Gain | Limit | Limit |
| | | BW | | | |
| | (MHz) | (MHz) | (dBi) | (dBm) | (dBm) |
| 144 | 5720 | 5.77 | 4.03 | 30.00 | 30.00 |

Duty Cycle CF (dB) 0.00 Included in Calculations of Corr'd Power & PSD

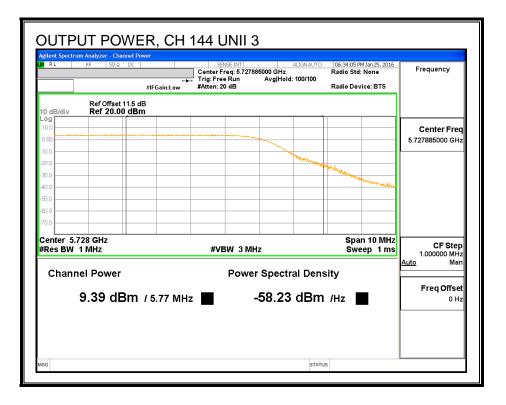
Output Power Results

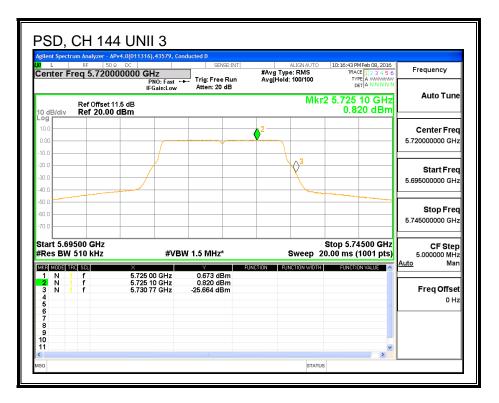
| Channel | Frequency | Antenna A | Total | Power | Power |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 9.39 | 9.39 | 30.00 | -20.61 |

PSD Results

| Channel | Frequency | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 0.820 | 0.820 | 30.00 | -29.18 |

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8.41.1. 6 dB BANDWIDTH

<u>LIMITS</u>

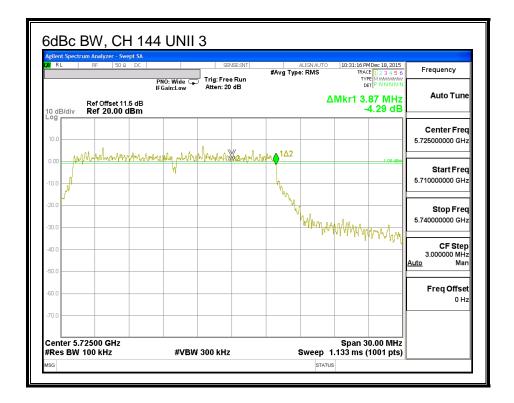
FCC §15.407 (e)

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

<u>RESULTS</u>

| Channel | Frequency | 6 dB Bandwidth | |
|---------|-----------|----------------|--|
| | (MHz) | (MHz) | |
| 144 | 5720 | 3.87 | |

6 dB BANDWIDTH



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8.42. 802.11a 2TX CDD MODE IN THE 5.6 GHz BAND

Note: Covered by 802.11n HT20 2TX CDD MODE IN THE 5.6 GHz BAND

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8.43. 802.11n HT20 2Tx CDD MODE IN THE 5.6 GHz BAND

8.43.1. 26 dB BANDWIDTH

<u>LIMITS</u>

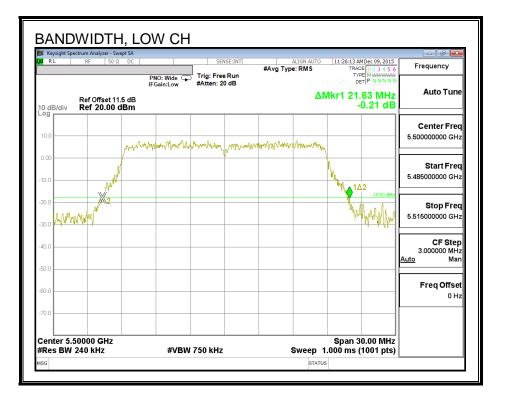
None; for reporting purposes only.

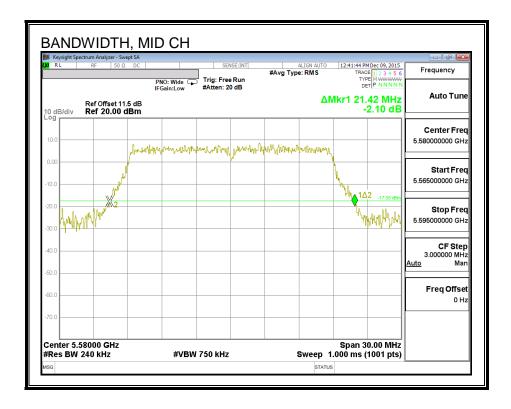
<u>RESULTS</u>

| Channel | Frequency | 26 dB BW | 26 dB BW |
|---------|-----------|-----------|-----------|
| | | Antenna B | Antenna A |
| | (MHz) | (MHz) | (MHz) |
| Low | 5500 | 21.63 | 21.84 |
| Mid | 5580 | 21.42 | 21.69 |
| High | 5700 | 21.42 | 21.81 |
| 144 | 5720 | 21.51 | 21.60 |

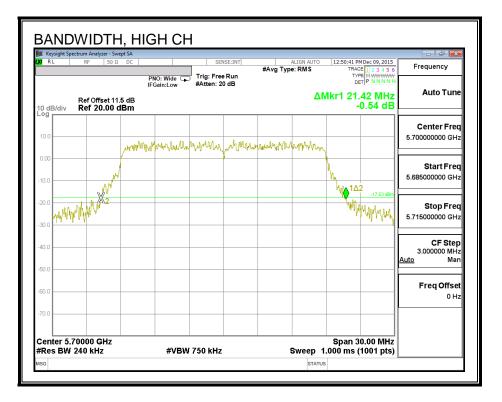
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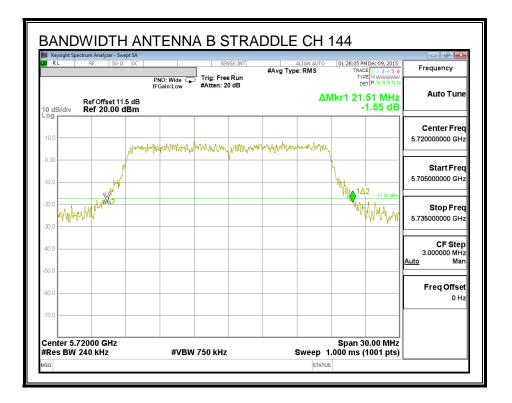
26 dB BANDWIDTH, ANTENNA - B





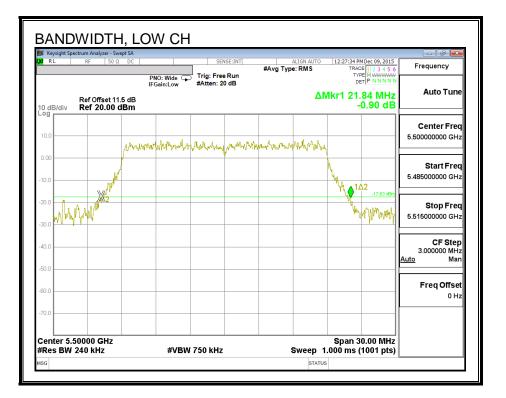
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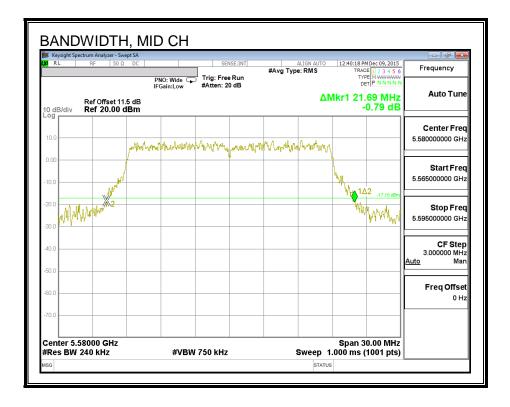




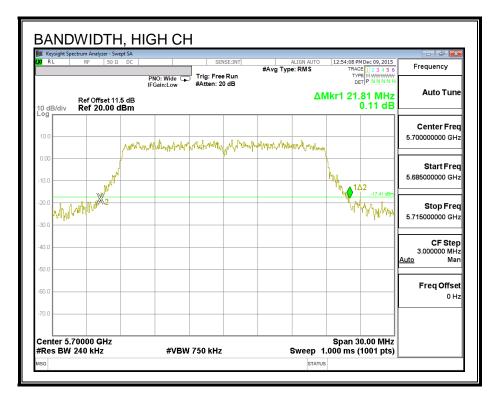
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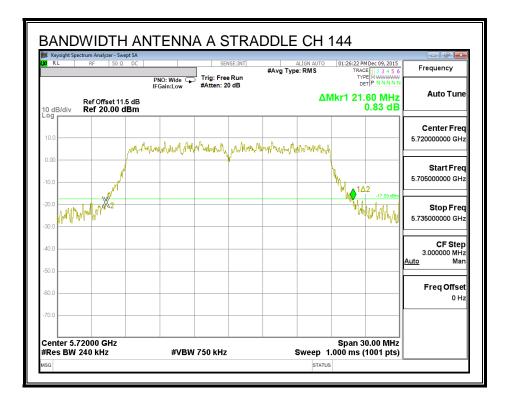
26 dB BANDWIDTH, ANTENNA - A





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8.43.2. 99% BANDWIDTH

<u>LIMITS</u>

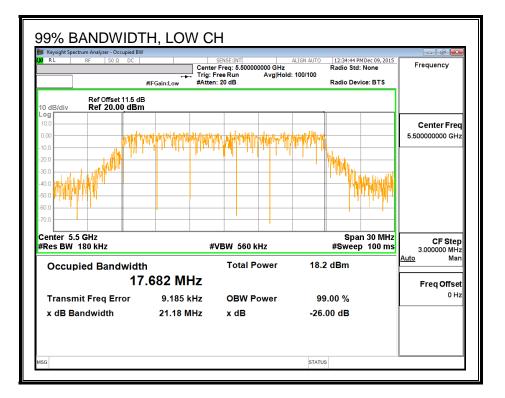
None; for reporting purposes only.

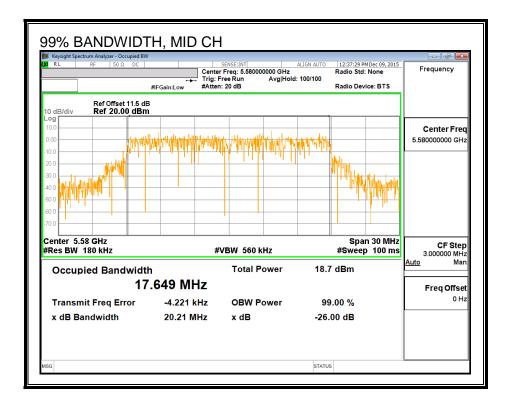
RESULTS

| Channel | Frequency | 99% BW | 99% BW |
|---------|-----------|-----------|-----------|
| | | Antenna B | Antenna A |
| | (MHz) | (MHz) | (MHz) |
| Low | 5500 | 17.682 | 17.680 |
| Mid | 5580 | 17.649 | 17.743 |
| High | 5700 | 17.685 | 17.849 |
| 144 | 5720 | 17.738 | 17.606 |

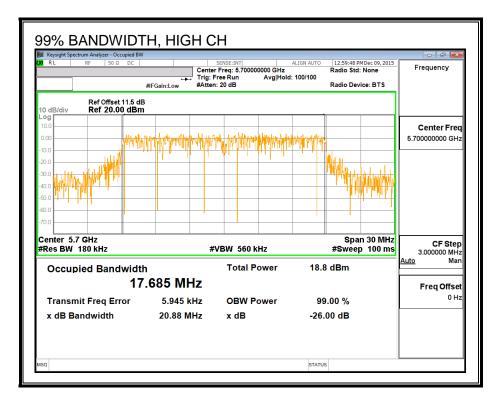
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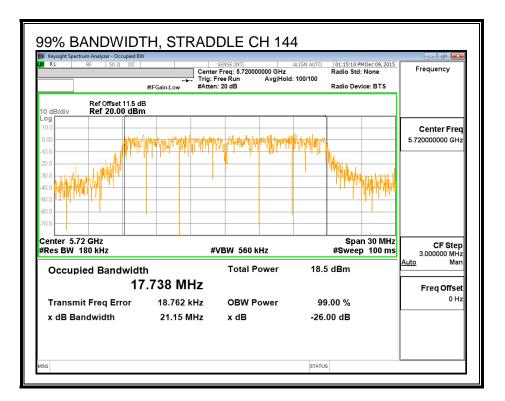
99% BANDWIDTH, ANTENNA - B





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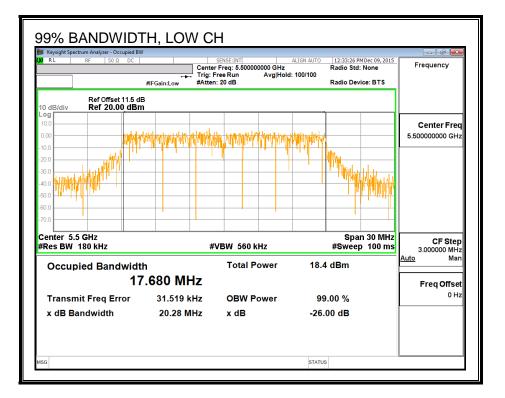


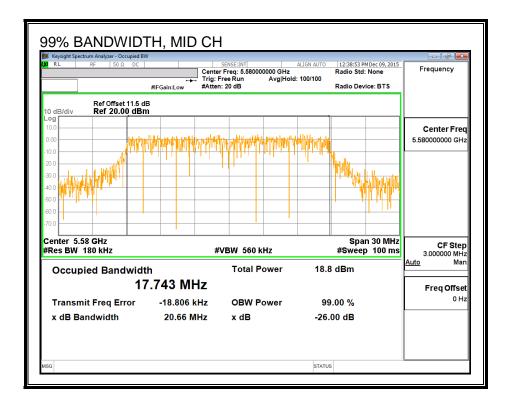


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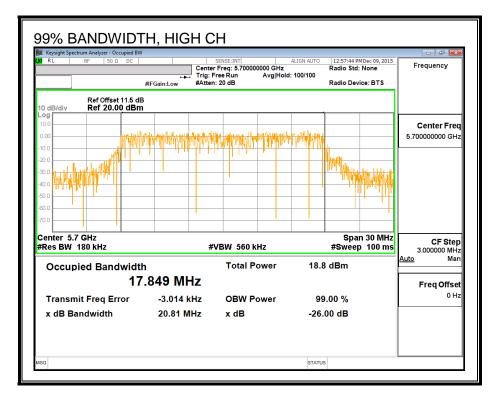
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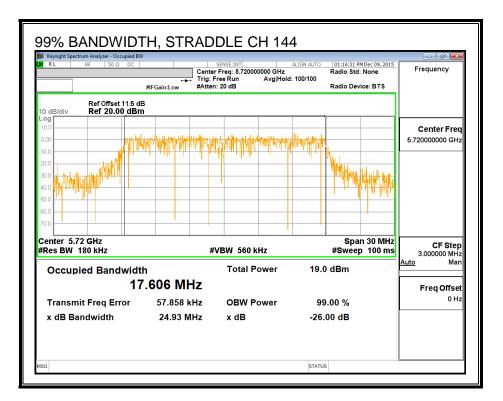
99% BANDWIDTH, ANTENNA - A





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8.43.3. AVERAGE POWER

<u>LIMITS</u>

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

Average Power Results

| Channel | Frequency | Antenna B | Antenna A | Total |
|---------|-----------|-----------|-----------|-------|
| | | Power | Power | Power |
| | (MHz) | (dBm) | (dBm) | (dBm) |
| Low | 5500 | 14.46 | 14.35 | 17.42 |
| Mid | 5580 | 15.39 | 15.41 | 18.41 |
| High | 5700 | 13.49 | 13.40 | 16.46 |
| 144 | 5720 | 15.45 | 15.41 | 18.44 |

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8.43.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1– MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

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

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

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DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B | Antenna A | Uncorrelated Chains |
|-----------|-----------|----------------------------|
| | | Directional |
| Gain | Gain | Gain |
| (dBi) | (dBi) | (dBi) |
| 2.83 | 4.03 | 3.47 |

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B | Antenna A | Correlated Chains |
|-----------|-----------|--------------------------|
| | | Directional |
| Gain | Gain | Gain |
| (dBi) | (dBi) | (dBi) |
| 2.83 | 4.03 | 6.46 |

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RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency | Min | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|--------|-------------|-------------|-------|-------|
| | | 26 dB | 99% | Gain | Gain | Limit | Limit |
| | | BW | BW | for Power | for PSD | | |
| | (MHz) | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| Low | 5500 | 21.84 | 17.682 | 3.47 | 6.46 | 23.48 | 10.54 |
| Mid | 5580 | 21.69 | 17.743 | 3.47 | 6.46 | 23.49 | 10.54 |
| High | 5700 | 21.81 | 17.849 | 3.47 | 6.46 | 23.52 | 10.54 |

Duty Cycle CF (dB) 0.00

Included in Calculations of Corr'd PSD

Output Power Results

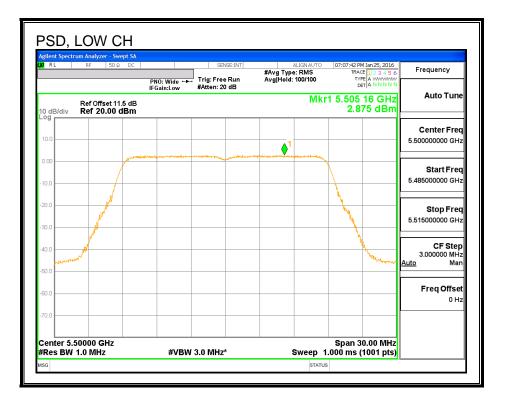
| Channel | Frequency | Antenna B | Antenna A | Total | Power | Power |
|---------|-----------|-----------|-----------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | Power | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5500 | 14.46 | 14.35 | 17.42 | 23.48 | -6.06 |
| Mid | 5580 | 15.39 | 15.41 | 18.41 | 23.49 | -5.08 |
| High | 5700 | 13.49 | 13.40 | 16.46 | 23.52 | -7.06 |

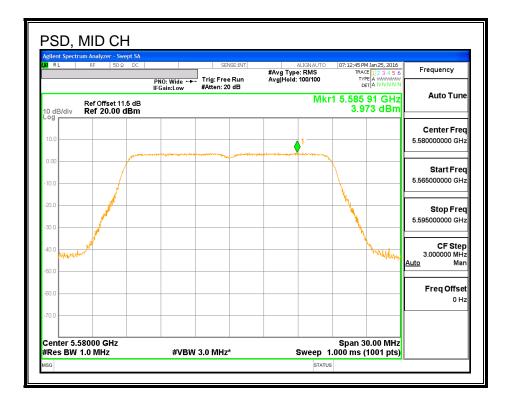
PSD Results

| Channel | Frequency | Antenna B | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|-----------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5500 | 2.875 | 2.806 | 5.851 | 10.54 | -4.69 |
| Mid | 5580 | 3.973 | 4.030 | 7.012 | 10.54 | -3.53 |
| High | 5700 | 2.043 | 1.906 | 4.985 | 10.54 | -5.55 |

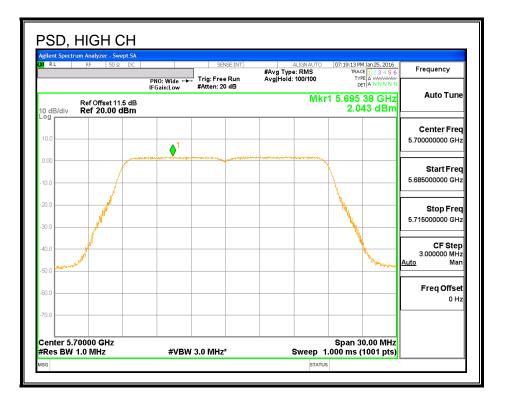
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PSD, ANTENNA - B





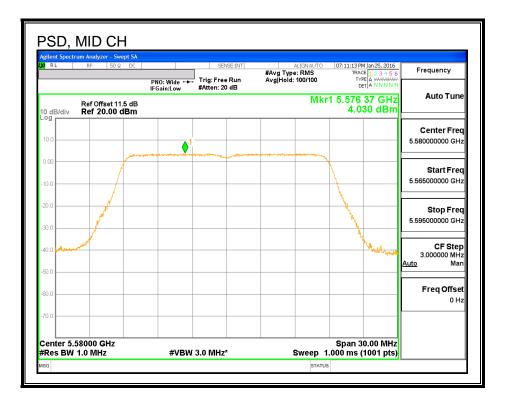
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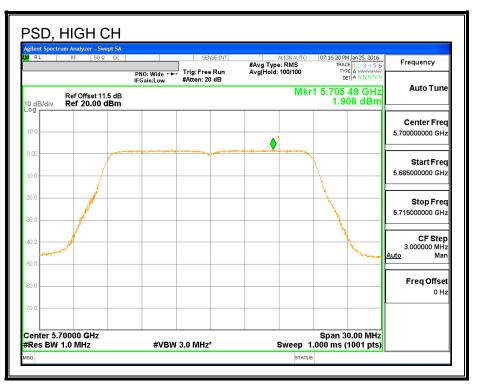


PSD, ANTENNA - A



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8.44. 802.11ac VHT20 2TX CDD STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------------|-------|-------|
| | | 26 dB | Gain | Gain | Limit | Limit |
| | | BW | for Power | for PSD | | |
| | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| 144 | 5720 | 15.80 | 3.47 | 6.46 | 22.99 | 10.54 |

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

Output Power Results

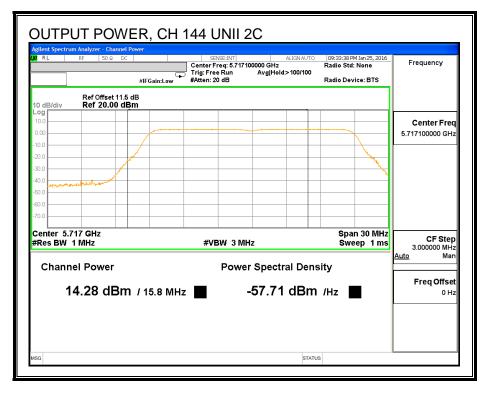
| Channel | Frequency | Antenna B | Antenna A | Total | Power | Power |
|---------|-----------|-----------|-----------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | Power | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 14.30 | 14.13 | 17.23 | 22.99 | -5.76 |

PSD Results

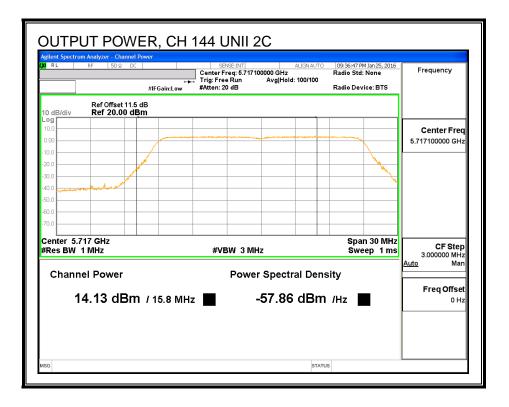
| Channel | Frequency | Antenna B | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|-----------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 3.949 | 3.771 | 6.871 | 10.54 | -3.67 |

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ANTENNA - B

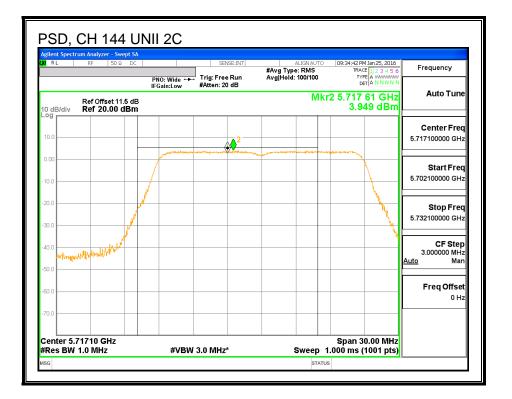


ANTENNA - A

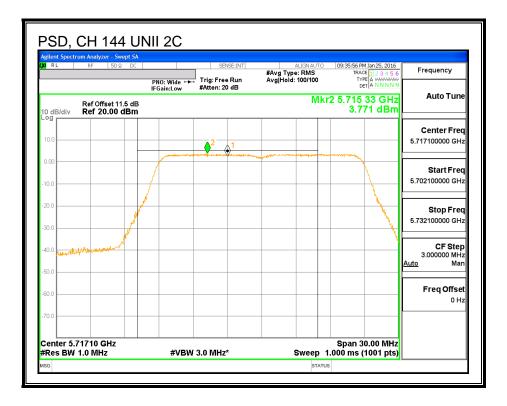


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ANTENNA - B



ANTENNA - A



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UNII-3 BAND

Antenna Gain and Limit

| Channel | Frequency | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------------|-------|-------|
| | | 26 dB | Gain | Gain | Limit | Limit |
| | | BW | For Power | For PSD | | |
| | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| 144 | 5720 | 5.80 | 3.47 | 6.46 | 30.00 | 29.54 |

| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|
| | 0.00 | included in Calculations of Con a Power & PSD |

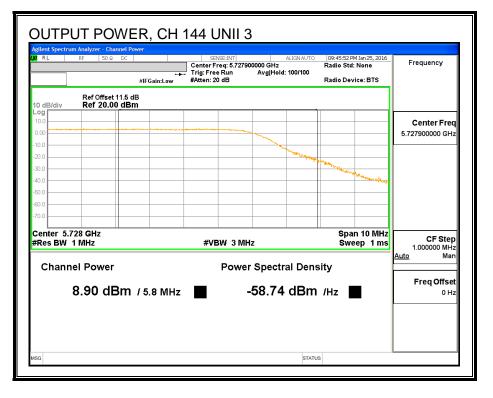
Output Power Results

| Channel | Frequency | Antenna B | Antenna A | Total | Power | Power |
|---------|-----------|-----------|-----------|--------|-------|--------|
| | | Meas Meas | | Corr'd | Limit | Margin |
| | | Power | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 8.90 | 8.66 | 11.79 | 30.00 | -18.21 |

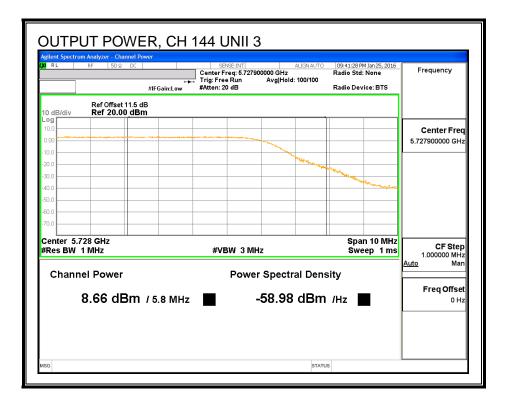
PSD Results

| Channel | Frequency | Antenna B | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|-----------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 0.32 | 0.30 | 3.32 | 29.54 | -26.22 |

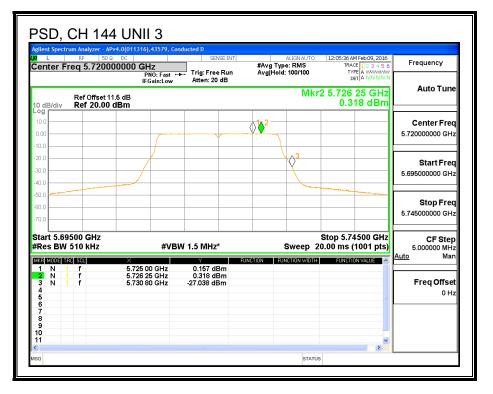
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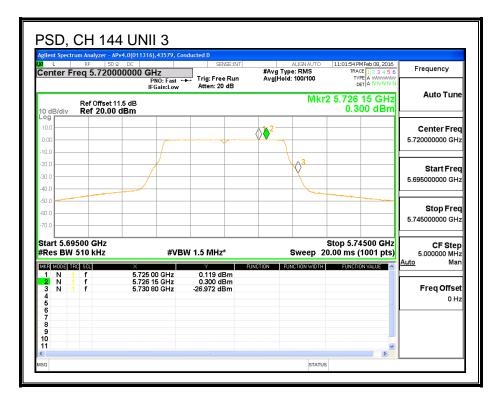
ANTENNA - A



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ANTENNA - A



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8.44.1. 6 dB BANDWIDTH

LIMITS

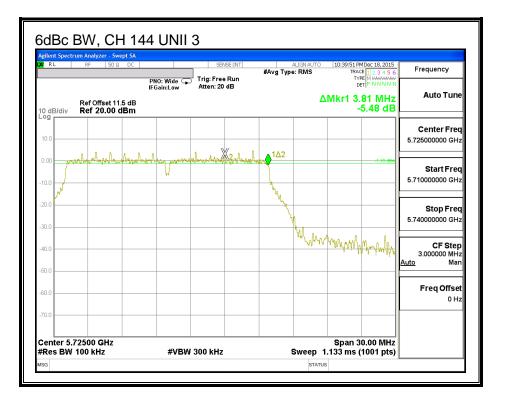
FCC §15.407 (e)

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

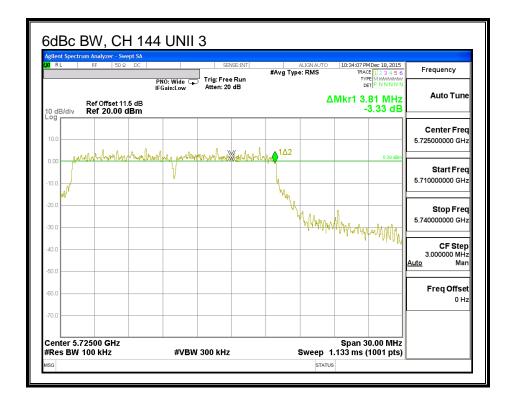
RESULTS

| Channel Frequency | | 6 dB BW | 6 dB BW | |
|-------------------|-------|-----------|-----------|--|
| | | Antenna B | Antenna A | |
| | (MHz) | (MHz) | (MHz) | |
| 144 | 5720 | 3.81 | 3.81 | |

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ANTENNA - A



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8.45. 802.11n HT20 2Tx STBC MODE IN THE 5.6 GHz BAND

8.45.1. 26 dB BANDWIDTH

LIMITS

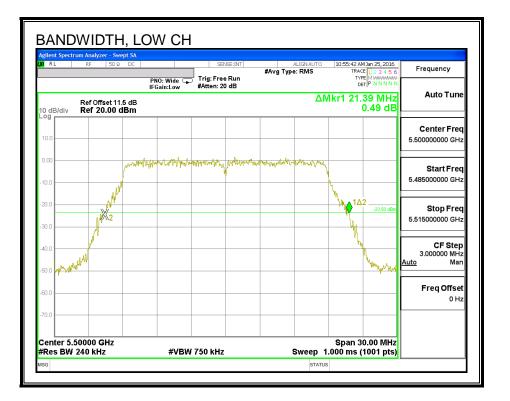
None; for reporting purposes only.

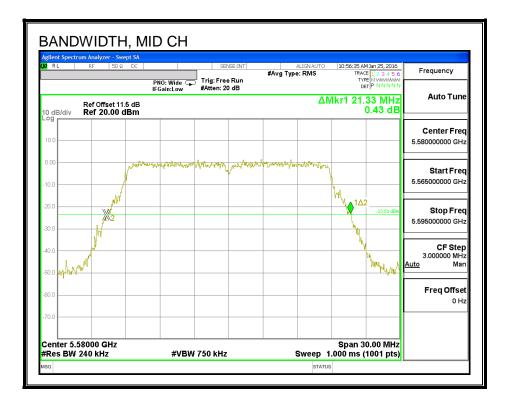
<u>RESULTS</u>

| Channel | Frequency | 26 dB BW | 26 dB BW |
|---------|-----------|-----------|-----------|
| | | Antenna B | Antenna A |
| | (MHz) | (MHz) | (MHz) |
| Low | 5500 | 21.39 | 21.57 |
| Mid | 5580 | 21.33 | 21.57 |
| High | 5700 | 21.51 | 21.30 |
| 144 | 5720 | 21.18 | 21.33 |

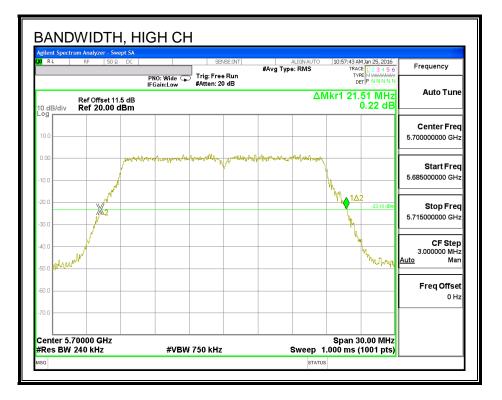
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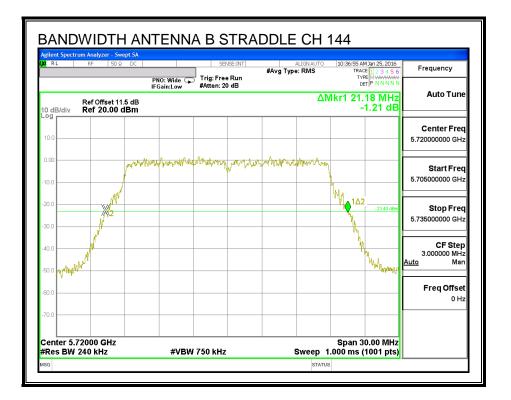
26 dB BANDWIDTH, ANTENNA - B





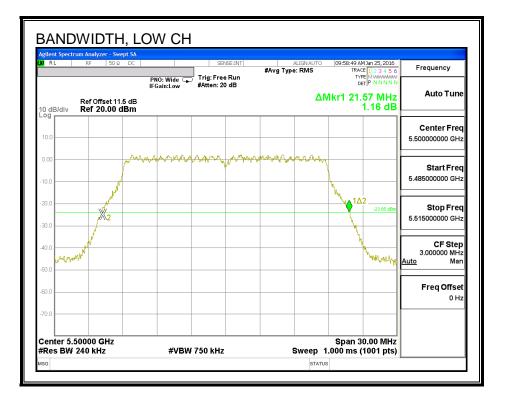
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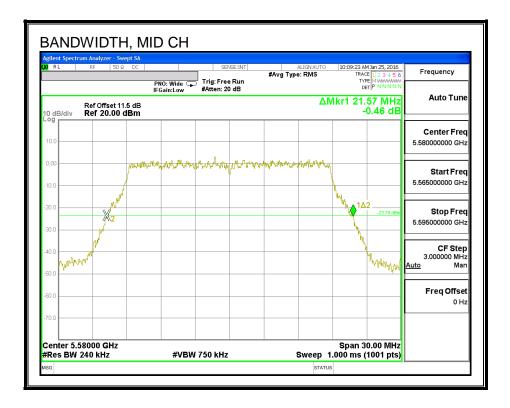




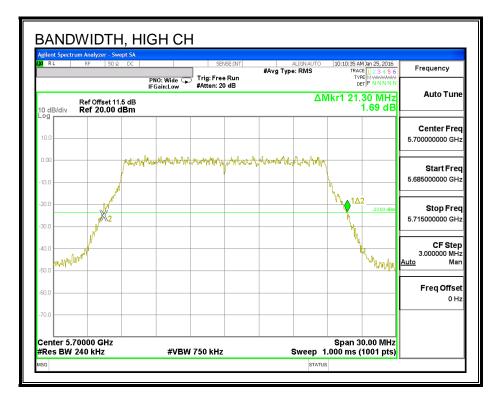
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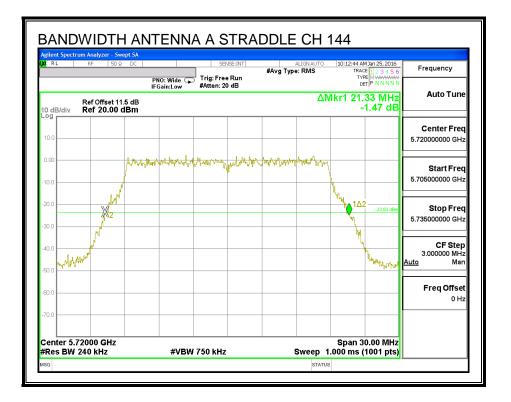
26 dB BANDWIDTH, ANTENNA - A





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8.45.2. 99% BANDWIDTH

<u>LIMITS</u>

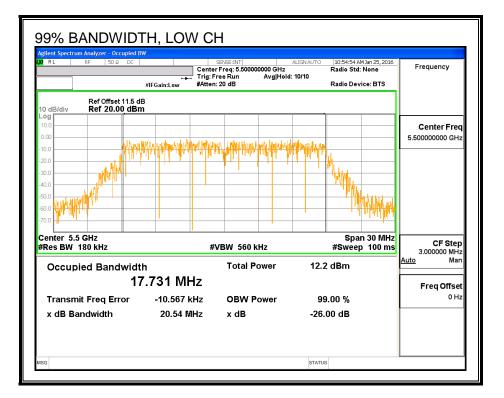
None; for reporting purposes only.

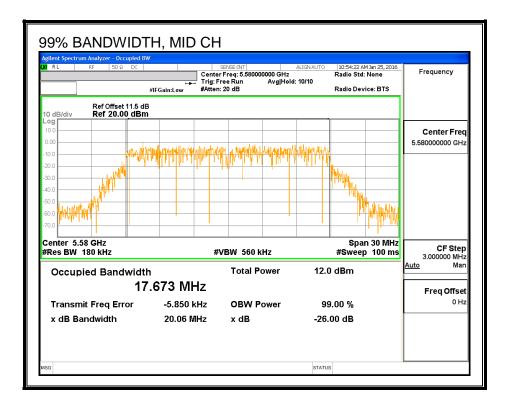
RESULTS

| Channel | Frequency | 99% BW | 99% BW |
|---------|-----------|-----------|-----------|
| | | Antenna B | Antenna A |
| | (MHz) | (MHz) | (MHz) |
| Low | 5500 | 17.731 | 17.668 |
| Mid | 5580 | 17.673 | 17.706 |
| High | 5700 | 17.737 | 17.696 |
| 144 | 5720 | 17.836 | 17.694 |

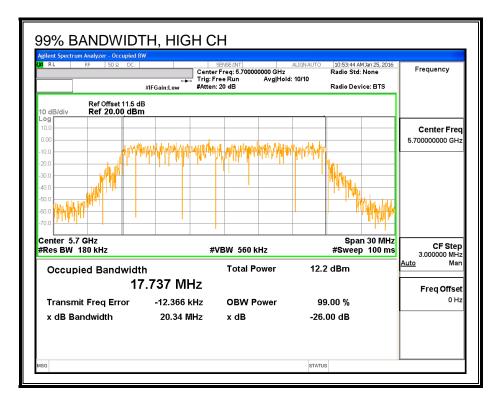
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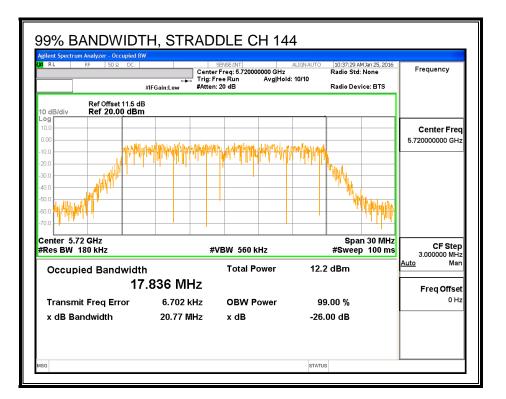
99% BANDWIDTH, ANTENNA - B





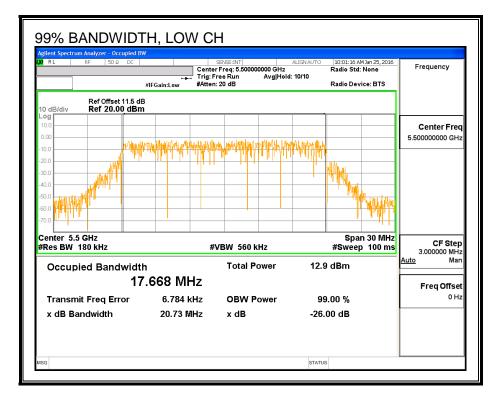
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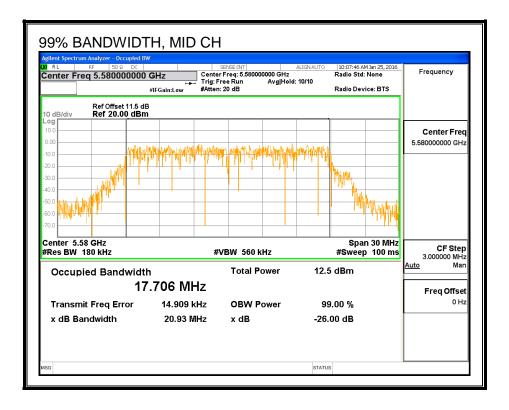




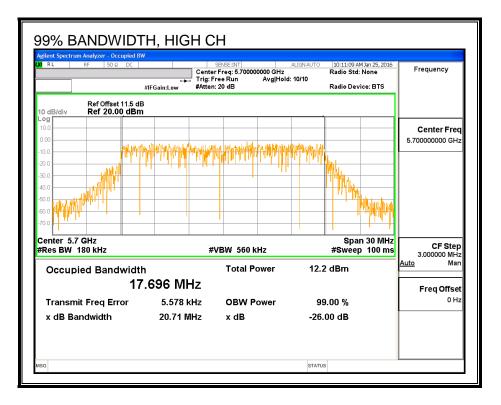
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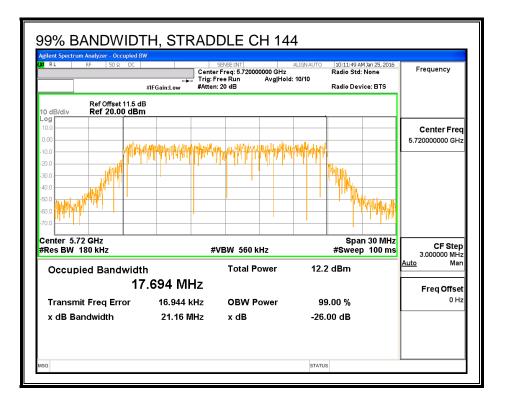
99% BANDWIDTH, ANTENNA - A





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8.45.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

Average Power Results

| Channel | Frequency | Antenna B | Antenna A | Total |
|---------|-----------|-----------|-----------|-------|
| | | Power | Power | Power |
| | (MHz) | (dBm) | (dBm) | (dBm) |
| Low | 5500 | 14.50 | 14.43 | 17.48 |
| Mid | 5580 | 16.45 | 15.99 | 19.24 |
| High | 5700 | 13.50 | 13.43 | 16.48 |
| 144 | 5720 | 16.41 | 16.00 | 19.22 |

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8.45.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1– MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

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

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

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DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B | Antenna A | Uncorrelated Chains |
|-----------|-----------|----------------------------|
| | | Directional |
| Gain | Gain | Gain |
| (dBi) | (dBi) | (dBi) |
| 2.83 | 4.03 | 3.47 |

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RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency | Min | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|--------|-------------|-------------|-------|-------|
| | | 26 dB | 99% | Gain | Gain | Limit | Limit |
| | | BW | BW | for Power | for PSD | | |
| | (MHz) | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| Low | 5500 | 21.57 | 17.731 | 3.47 | 3.47 | 23.49 | 11.00 |
| Mid | 5580 | 21.57 | 17.706 | 3.47 | 3.47 | 23.48 | 11.00 |
| High | 5700 | 21.51 | 17.737 | 3.47 | 3.47 | 23.49 | 11.00 |

Duty Cycle CF (dB) 0.00

Included in Calculations of Corr'd PSD

Output Power Results

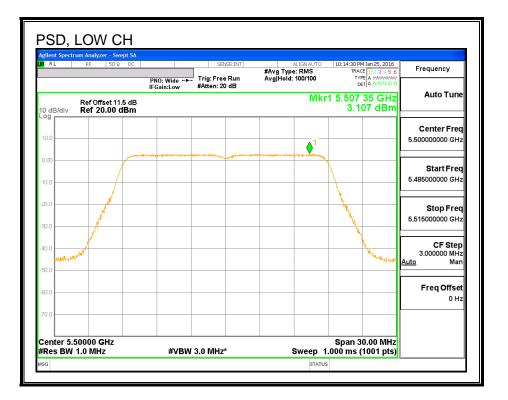
| Channel | Frequency | Antenna B | Antenna A | Total | Power | Power |
|---------|-----------|-----------|-----------|-------------|-------|--------|
| | | Meas | Meas | Meas Corr'd | | Margin |
| | | Power | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5500 | 14.50 | 14.43 | 17.48 | 23.49 | -6.01 |
| Mid | 5580 | 16.45 | 15.99 | 19.24 | 23.48 | -4.24 |
| High | 5700 | 13.50 | 13.43 | 16.48 | 23.49 | -7.01 |

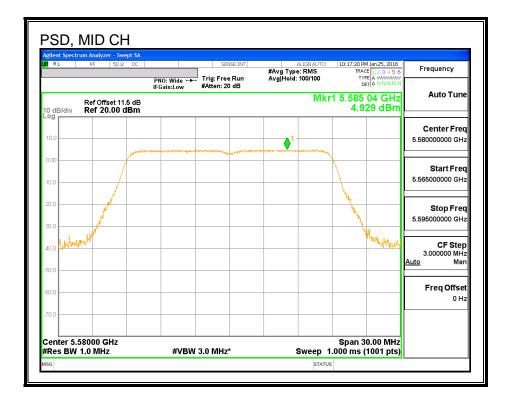
PSD Results

| Channel | Frequency | Antenna B Antenna A | | Total | PSD | PSD |
|---------|-----------|---------------------|-------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5500 | 3.107 | 3.044 | 6.086 | 11.00 | -4.91 |
| Mid | 5580 | 4.929 | 4.584 | 7.770 | 11.00 | -3.23 |
| High | 5700 | 2.160 | 1.894 | 5.039 | 11.00 | -5.96 |

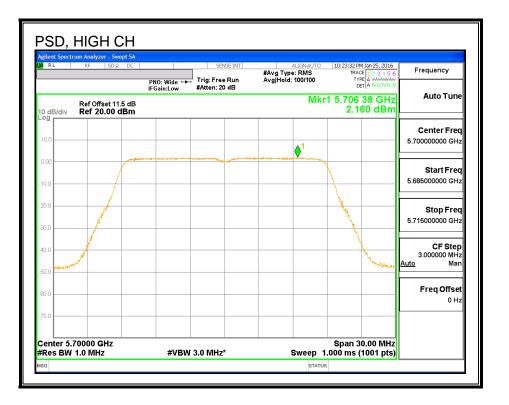
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PSD, ANTENNA - B

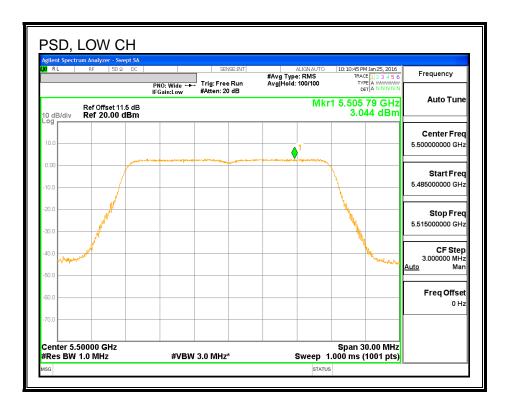




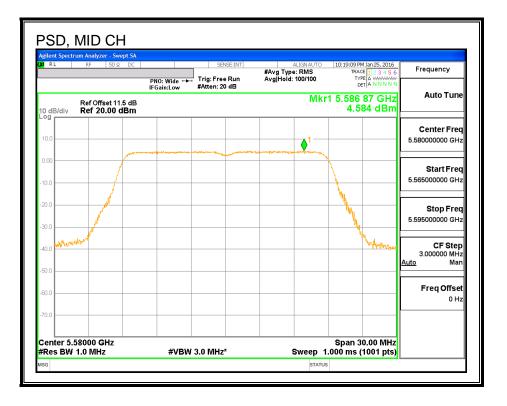
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PSD, ANTENNA - A



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8.46. 802.11ac VHT20 2TX STBC STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------------|-------|-------|
| | | 26 dB | Gain | Gain | Limit | Limit |
| | | BW | for Power | for PSD | | |
| | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| 144 | 5720 | 15.67 | 3.47 | 3.47 | 22.95 | 11.00 |

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

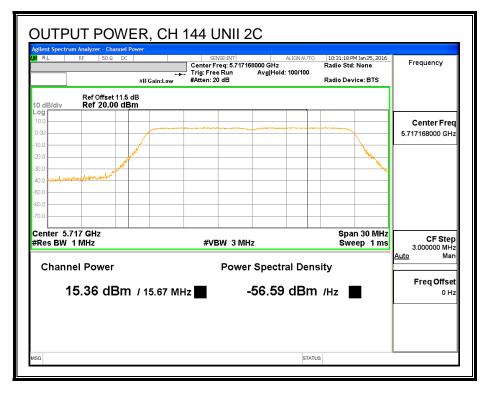
Output Power Results

| Channel | Frequency | Antenna B | Antenna A | Total | Power | Power |
|---------|-----------|-----------|-----------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | Power | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 15.36 | 14.55 | 17.98 | 22.95 | -4.97 |

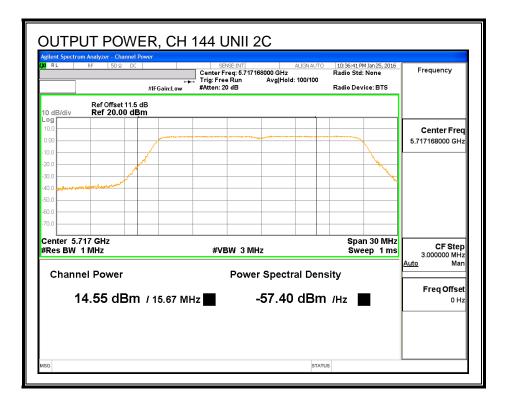
PSD Results

| Channel | Frequency | Antenna B | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|-----------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 4.882 | 4.304 | 7.613 | 11.00 | -3.39 |

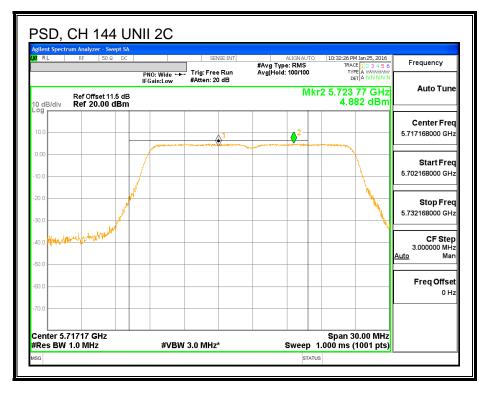
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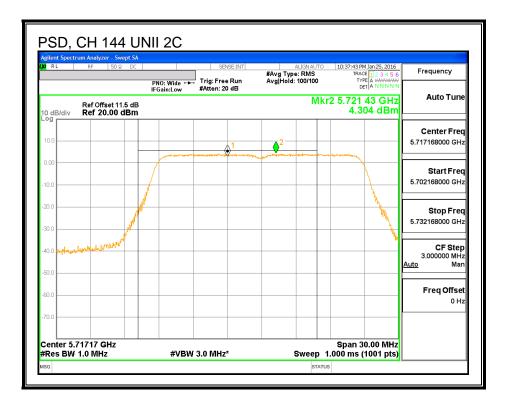
ANTENNA - A



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ANTENNA - A



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UNII-3 BAND

Antenna Gain and Limit

| Channel | Frequency | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------------|-------|-------|
| | | 26 dB | Gain | Gain | Limit | Limit |
| | | BW | For Power | For PSD | | |
| | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| 144 | 5720 | 5.67 | 3.47 | 3.47 | 30.00 | 30.00 |

| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|
| | 0.00 | included in calculations of con a Fower & FSD |

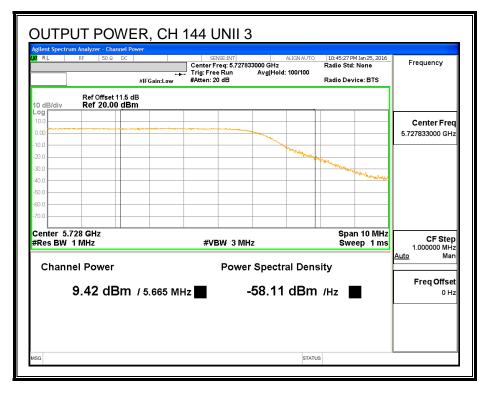
Output Power Results

| Channel | Frequency | Antenna B | Antenna A | Total | Power | Power |
|---------|-----------|-----------|-----------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | Power | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 9.42 | 9.15 | 12.30 | 30.00 | -17.70 |

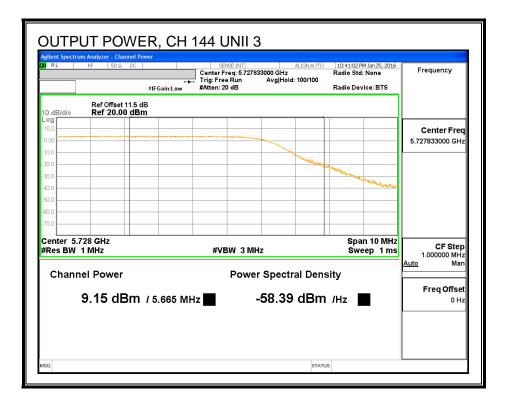
PSD Results

| Channel | Frequency | Antenna B | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|-----------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 144 | 5720 | 1.52 | 1.02 | 4.29 | 30.00 | -25.71 |

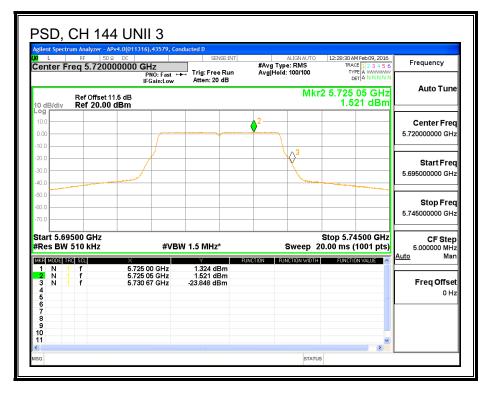
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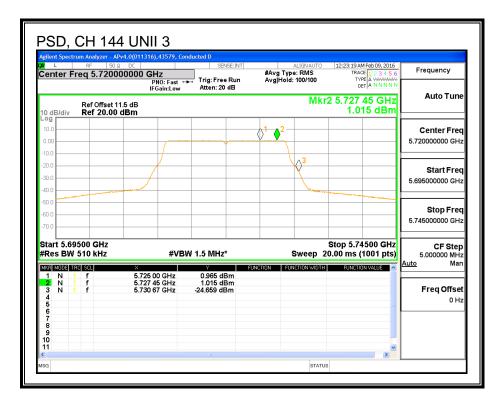
ANTENNA - A



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<u>ANTENNA – A</u>



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8.46.1. 6 dB BANDWIDTH

LIMITS

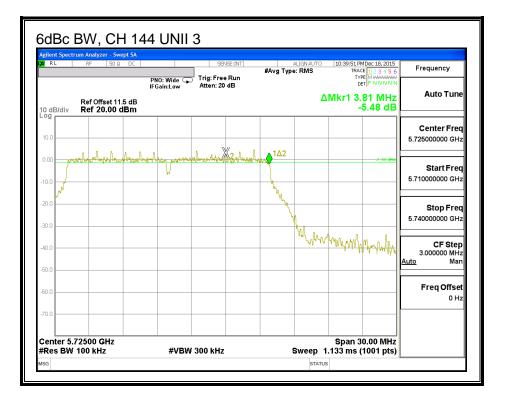
FCC §15.407 (e)

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

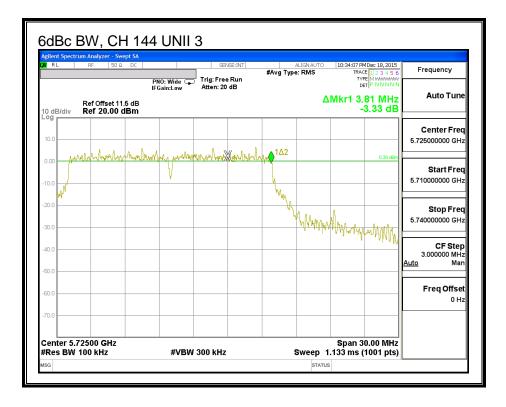
RESULTS

| Channel Frequency | | 6 dB BW | 6 dB BW | |
|-------------------|-------|-----------|-----------|--|
| | | Antenna B | Antenna A | |
| | (MHz) | (MHz) | (MHz) | |
| 144 | 5720 | 3.81 | 3.81 | |

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ANTENNA - A



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8.47. 802.11n HT20 2Tx SDM MODE IN THE 5.6 GHz BAND

Note: Covered by 802.11n HT20 2Tx STBC MODE IN THE 5.6 GHz BAND

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8.48. 802.11ac VHT20 2TX SDM STRADDLE CHANNEL 144 RESULTS

Noted: Covered by 802.11ac VHT20 2TX STBC STRADDLE CHANNEL 144 RESULTS

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8.49. 802.11n HT40 ANTENNA - B MODE IN THE 5.6 GHz BAND

8.49.1. 26 dB BANDWIDTH

LIMITS

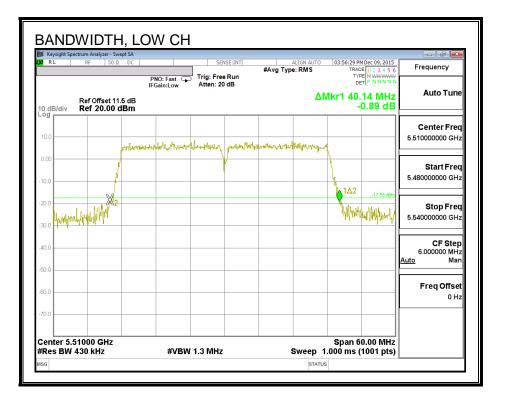
None; for reporting purposes only.

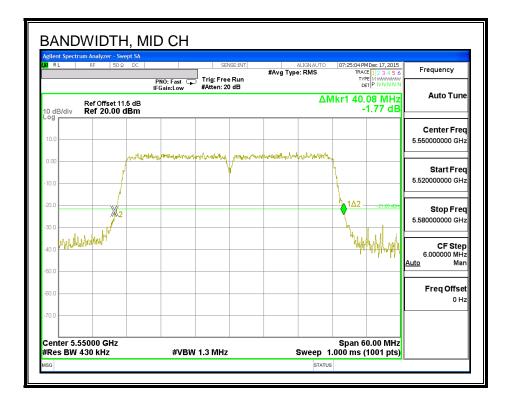
RESULTS

| Channel | Frequency | 26 dB Bandwidth |
|---------|-----------|-----------------|
| | (MHz) | (MHz) |
| Low | 5510 | 40.14 |
| Mid | 5550 | 40.08 |
| High | 5670 | 39.78 |
| 142 | 5710 | 40.38 |

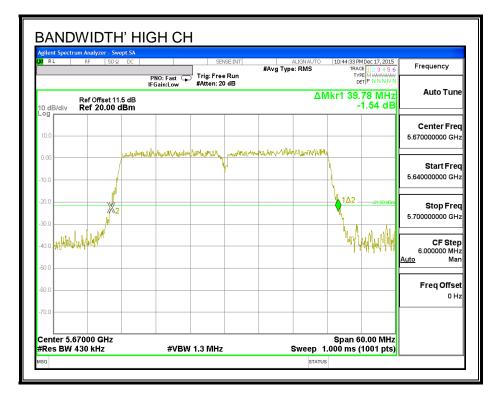
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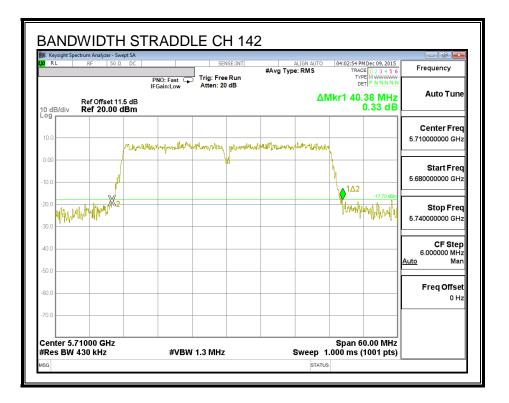
26 dB BANDWIDTH





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8.49.2. 99% BANDWIDTH

<u>LIMITS</u>

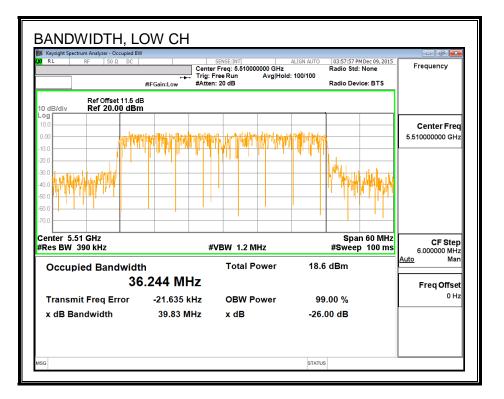
None; for reporting purposes only.

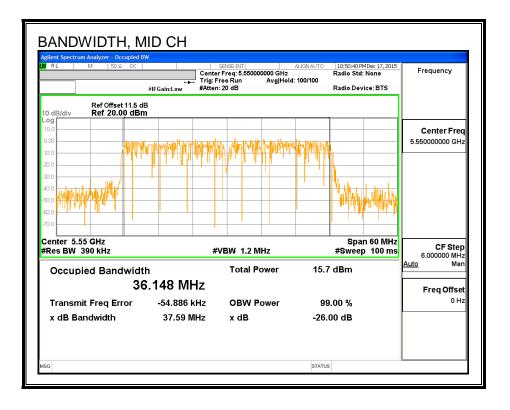
RESULTS

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
| | (MHz) | (MHz) |
| Low | 5510 | 36.244 |
| Mid | 5550 | 36.148 |
| High | 5670 | 36.261 |
| 142 | 5710 | 36.023 |

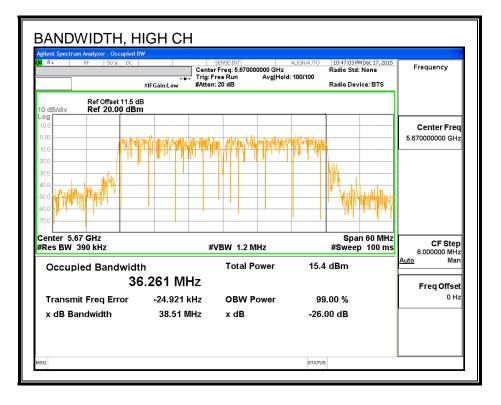
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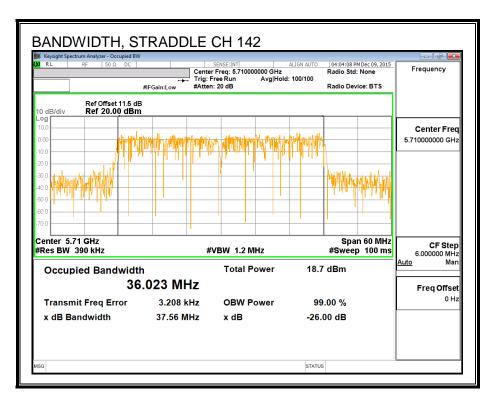
99% BANDWIDTH





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8.49.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

| Channel | Frequency | Power |
|---------|-----------|-------|
| | (MHz) | (dBm) |
| Low | 5510 | 13.97 |
| Mid | 5550 | 16.50 |
| High | 5670 | 15.95 |
| 142 | 5710 | 16.23 |

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8.49.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

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

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

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RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency | Min | Min | Directional | Power | PSD |
|---------|-----------|-------|--------|-------------|-------|-------|
| | | 26 dB | 99% | Gain | Limit | Limit |
| | | BW | BW | | | |
| | (MHz) | (MHz) | (MHz) | (dBi) | (dBm) | (dBm) |
| Low | 5510 | 40.14 | 36.244 | 2.83 | 24.00 | 11.00 |
| Mid | 5550 | 40.08 | 36.148 | 2.83 | 24.00 | 11.00 |
| High | 5670 | 39.78 | 36.261 | 2.83 | 24.00 | 11.00 |

Duty Cycle CF (dB)

Included in Calculations of Corr'd PSD

Output Power Results

| Channel | Frequency | Antenna B | Total | Power | Power |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5510 | 13.97 | 13.97 | 24.00 | -10.03 |
| Mid | 5550 | 16.50 | 16.50 | 24.00 | -7.50 |
| High | 5670 | 15.95 | 15.95 | 24.00 | -8.05 |

0.00

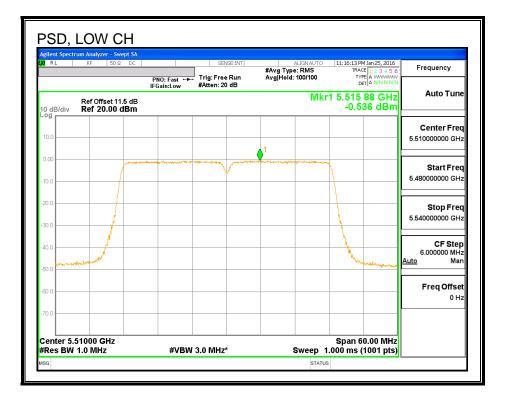
PSD Results

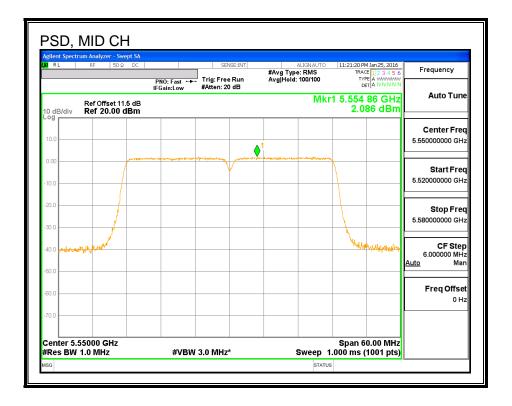
| Channel | Frequency | Antenna B | Total | PSD | PSD |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5510 | -0.536 | -0.536 | 11.00 | -11.54 |
| Mid | 5550 | 2.086 | 2.086 | 11.00 | -8.91 |
| High | 5670 | 1.502 | 1.502 | 11.00 | -9.50 |

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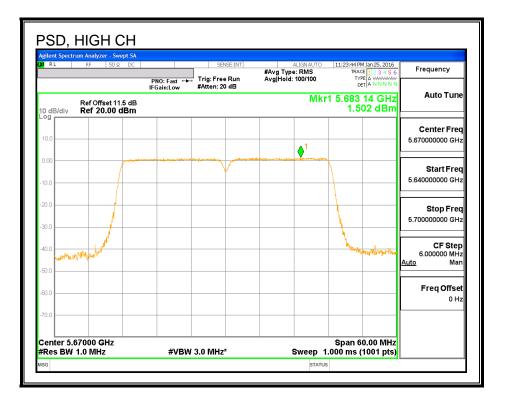
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<u>PSD</u>





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8.50. 802.11ac VHT40 ANTENNA - B STRADDLE CH 142 RESULTS (FCC)

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------------|-------|-------|
| | | 26 dB | Gain | Gain | Limit | Limit |
| | | BW | for Power | for PSD | | |
| | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| 142 | 5710 | 35.19 | 2.83 | 2.83 | 24.00 | 11.00 |

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

Output Power Results

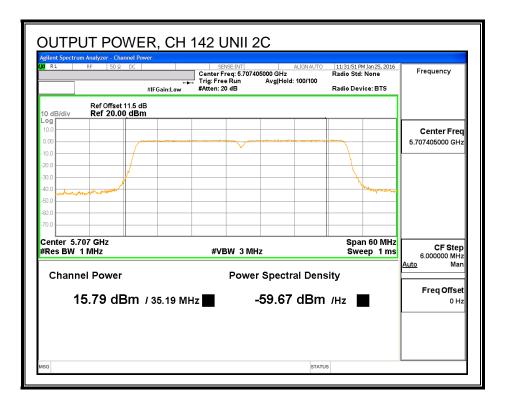
| Channel | Frequency | Antenna B | Total | Power | Power |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 142 | 5710 | 15.79 | 15.79 | 24.00 | -8.21 |

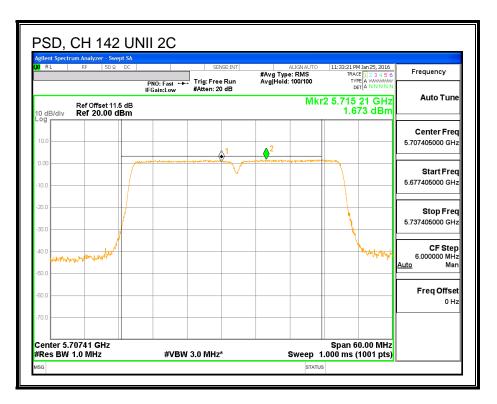
PSD Results

| Channel | Frequency | Antenna B | Total | PSD | PSD |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 142 | 5710 | 1.673 | 1.673 | 11.00 | -9.33 |

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UNII-3 BAND

Antenna Gain and Limit

| Channel | Frequency | Min | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------|-------|
| | | 26 dB | Gain | Limit | Limit |
| | | BW | | | |
| | (MHz) | (MHz) | (dBi) | (dBm) | (dBm) |
| 142 | 5710 | 5.19 | 2.83 | 30.00 | 30.00 |

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

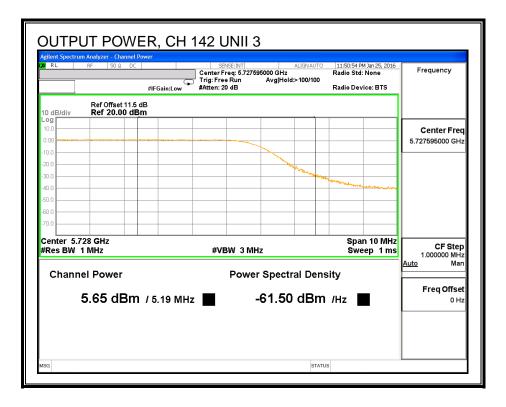
Output Power Results

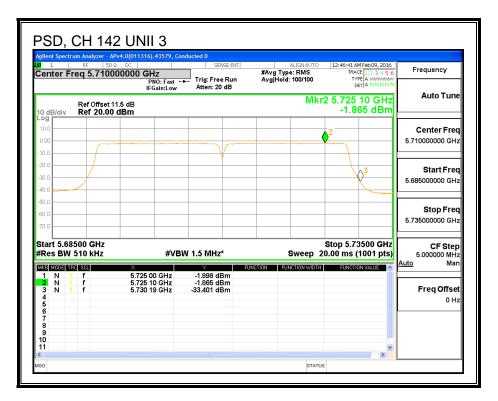
| Channel | Frequency | Antenna B | Total | Power | Power |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 142 | 5710 | 5.65 | 5.65 | 30.00 | -24.35 |

PSD Results

| Channel | Frequency | Antenna B | Total | PSD | PSD |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 142 | 5710 | -1.87 | -1.87 | 30.00 | -31.87 |

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8.50.1. 6 dB BANDWIDTH

<u>LIMITS</u>

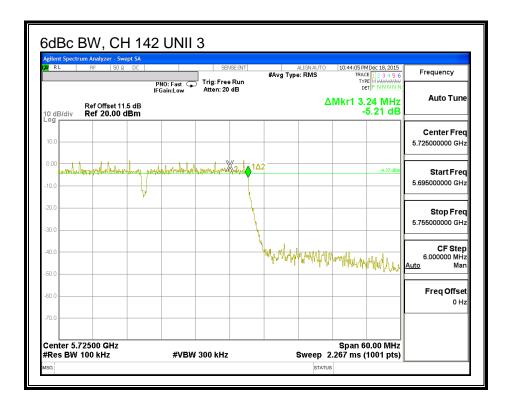
FCC §15.407 (e)

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

RESULTS

| Channel | Frequency | 6 dB Bandwidth |
|---------|-----------|----------------|
| | (MHz) | (MHz) |
| 142 | 5710 | 3.24 |

6 dB BANDWIDTH



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8.51. 802.11n HT40 ANTENNA - A MODE IN THE 5.6 GHz BAND

8.51.1. 26 dB BANDWIDTH

LIMITS

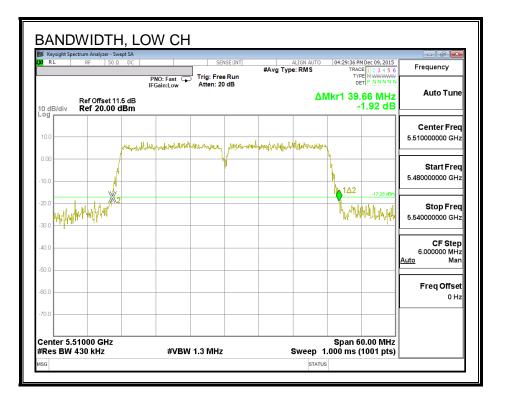
None; for reporting purposes only.

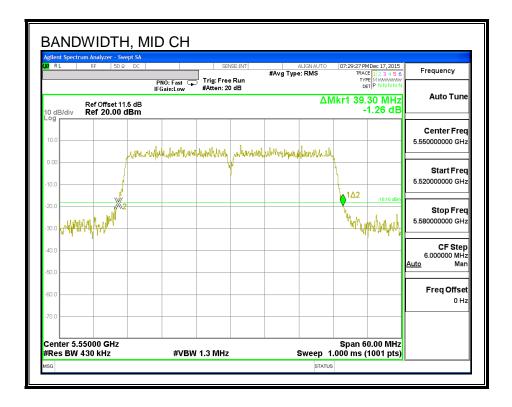
<u>RESULTS</u>

| Channel | Frequency | 26 dB Bandwidth |
|---------|-----------|-----------------|
| | (MHz) | (MHz) |
| Low | 5510 | 39.66 |
| Mid | 5550 | 39.30 |
| High | 5670 | 39.72 |
| 142 | 5710 | 40.26 |

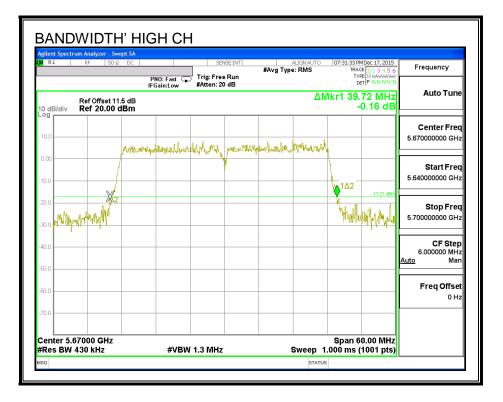
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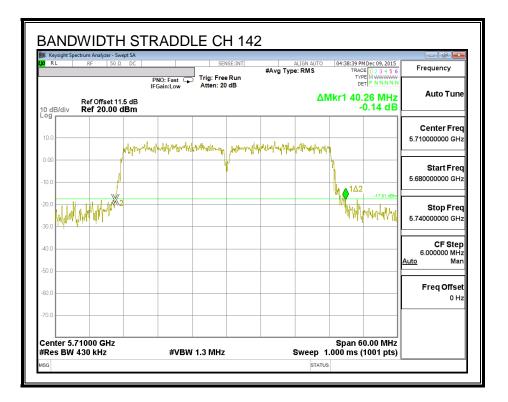
26 dB BANDWIDTH





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8.51.2. 99% BANDWIDTH

<u>LIMITS</u>

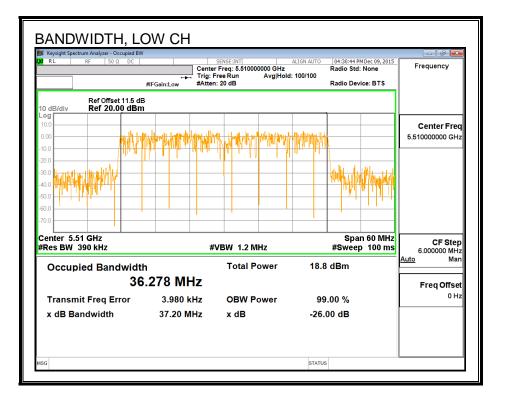
None; for reporting purposes only.

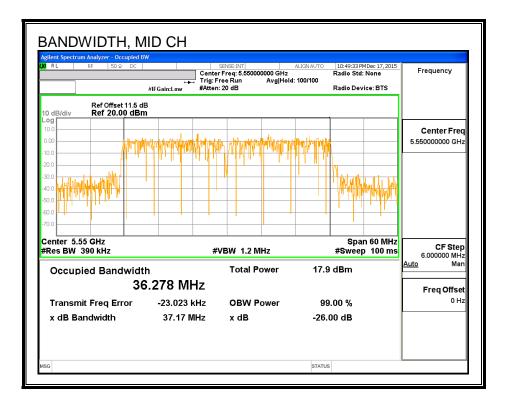
<u>RESULTS</u>

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
| | (MHz) | (MHz) |
| Low | 5510 | 36.278 |
| Mid | 5550 | 36.278 |
| High | 5670 | 36.134 |
| 142 | 5710 | 36.251 |

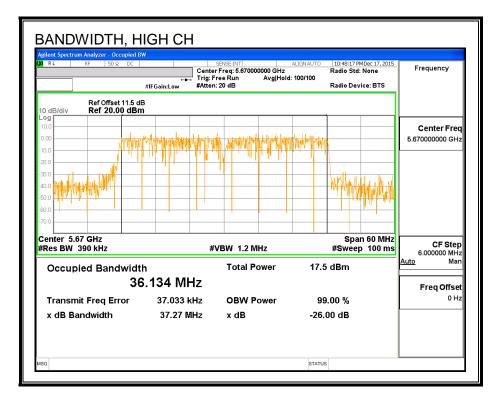
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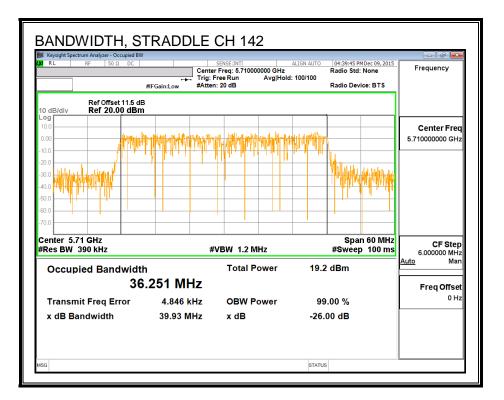
99% BANDWIDTH





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8.51.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

| Channel | Frequency | Power |
|---------|-----------|-------|
| | (MHz) | (dBm) |
| Low | 5510 | 14.00 |
| Mid | 5550 | 15.93 |
| High | 5670 | 15.99 |
| 142 | 5710 | 16.00 |

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8.51.4. OUTPUT POWER AND PSD

<u>LIMITS</u>

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

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

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

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RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency | Min | Min | Directional | Power | PSD |
|---------|-----------|-------|--------|-------------|-------|-------|
| | | 26 dB | 99% | Gain | Limit | Limit |
| | | BW | BW | | | |
| | (MHz) | (MHz) | (MHz) | (dBi) | (dBm) | (dBm) |
| Low | 5510 | 39.66 | 36.278 | 4.03 | 24.00 | 11.00 |
| Mid | 5550 | 39.30 | 36.278 | 4.03 | 24.00 | 11.00 |
| High | 5670 | 39.72 | 36.134 | 4.03 | 24.00 | 11.00 |

Duty Cycle CF (dB)

Included in Calculations of Corr'd PSD

Output Power Results

| Channel | Frequency | Antenna A | Total | Power | Power |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5510 | 14.00 | 14.00 | 24.00 | -10.00 |
| Mid | 5550 | 15.93 | 15.93 | 24.00 | -8.07 |
| High | 5670 | 16.00 | 16.00 | 24.00 | -8.00 |

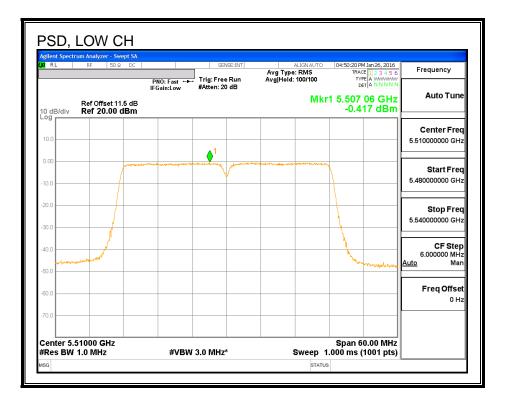
0.00

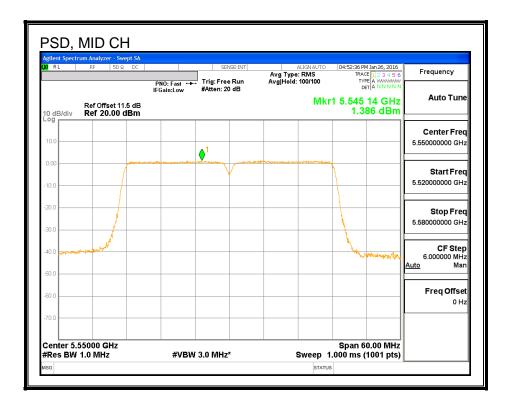
PSD Results

| Channel | Frequency | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5510 | -0.417 | -0.417 | 11.00 | -11.42 |
| Mid | 5550 | 1.386 | 1.386 | 11.00 | -9.61 |
| High | 5670 | 1.524 | 1.524 | 11.00 | -9.48 |

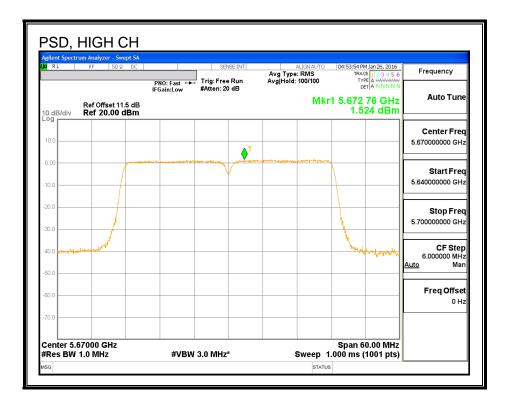
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PSD,





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8.52. 802.11ac VHT40 ANTENNA - A STRADDLE CH 142 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------------|-------|-------|
| | | 26 dB | Gain | Gain | Limit | Limit |
| | | BW | for Power | for PSD | | |
| | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| 142 | 5710 | 35.13 | 4.03 | 4.03 | 24.00 | 11.00 |

| Duty Cycle CE (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.00 | included in Calculations of Con d Power & PSD |

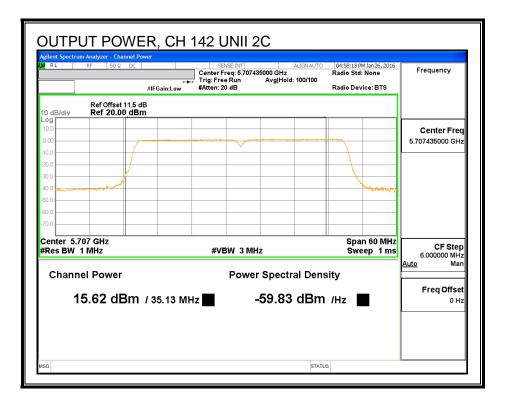
Output Power Results

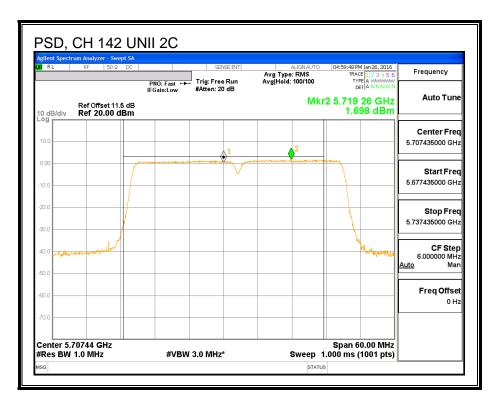
| Channel | Frequency | Antenna A | Total | Power | Power |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 142 | 5710 | 15.62 | 15.62 | 24.00 | -8.38 |

PSD Results

| Channel | Frequency | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 142 | 5710 | 1.698 | 1.698 | 11.00 | -9.30 |

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UNII-3 BAND

Antenna Gain and Limit

| Channel | Frequency | Min | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------|-------|
| | | 26 dB | Gain | Limit | Limit |
| | | BW | | | |
| | (MHz) | (MHz) | (dBi) | (dBm) | (dBm) |
| 142 | 5710 | 5.13 | 4.03 | 30.00 | 30.00 |

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

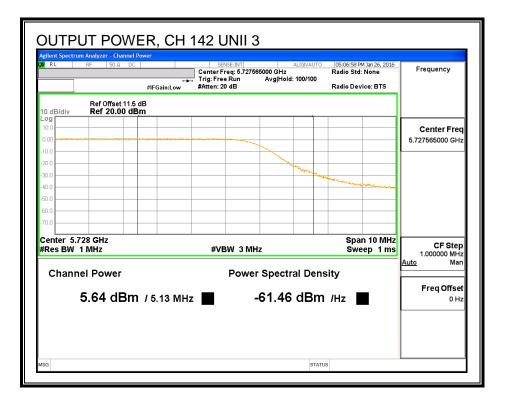
Output Power Results

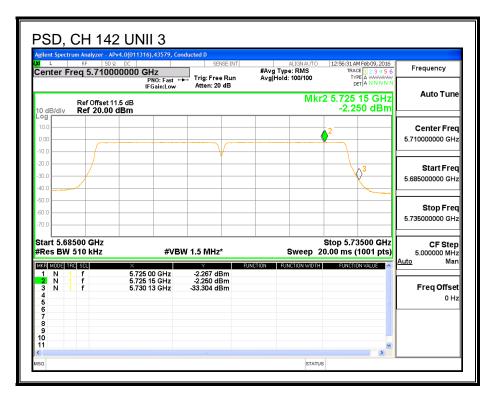
| Channel | Frequency | Antenna A | Total | Power | Power |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 142 | 5710 | 5.64 | 5.64 | 30.00 | -24.36 |

PSD Results

| Channel | Frequency | Antenna A | Total | PSD | PSD |
|---------|-----------|-----------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 142 | 5710 | -2.25 | -2.25 | 30.00 | -32.25 |

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8.52.1. 6 dB BANDWIDTH

LIMITS

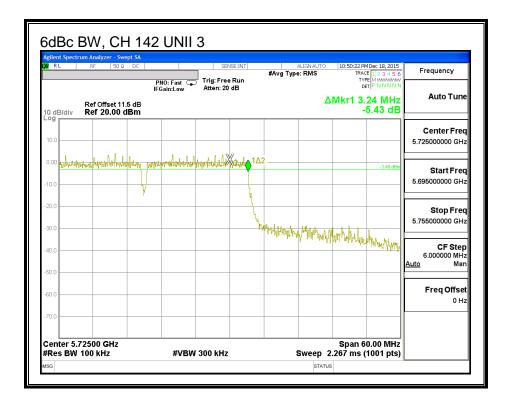
FCC §15.407 (e)

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

RESULTS

| Channel Frequency | | 6 dB Bandwidth | |
|-------------------|-------|----------------|--|
| | (MHz) | (MHz) | |
| 142 | 5710 | 3.24 | |

6 dB BANDWIDTH



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