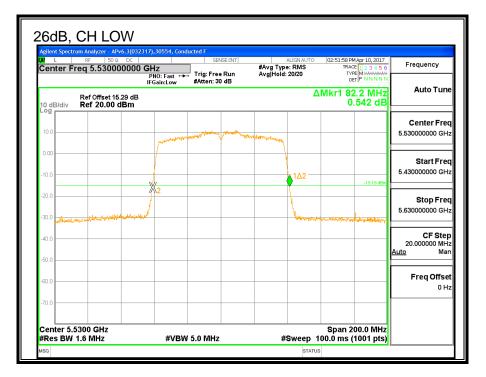
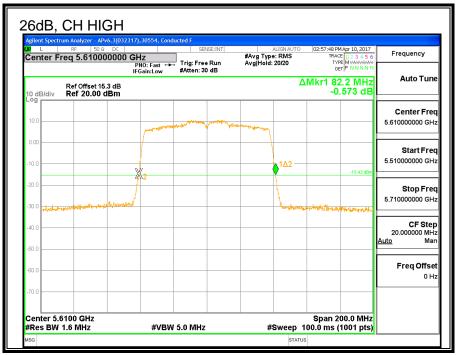
8.25. 11ac HT80 UAT 2 SISO MODE IN THE 5.6GHz BAND8.25.1. 26 dB BANDWIDTH

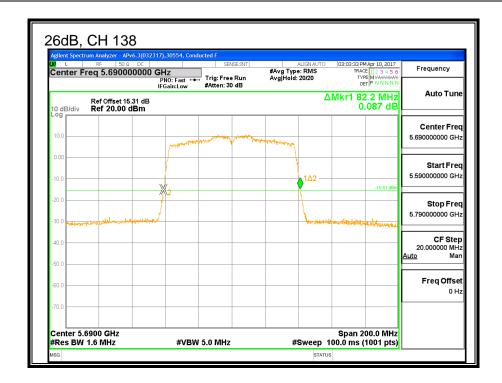
LIMITS

None; for reporting purposes only.

| Channel | Frequency | 26 dB BW UAT 2 (MHz) | |
|---------|-----------|----------------------------|--|
| Low | 5530 | 82.2 | |
| High | 5610 | 82.2 | |
| 138 | 5690 | 82.2 | |





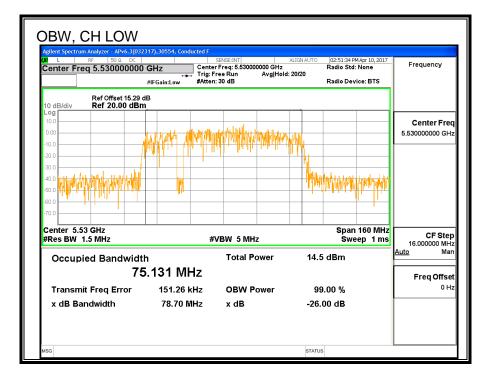


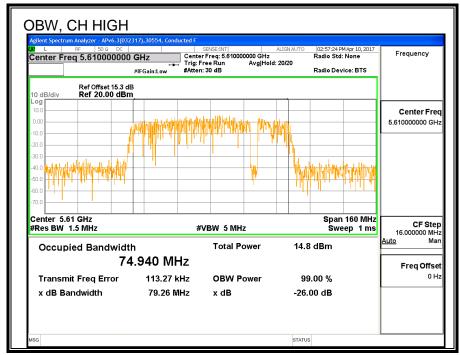
8.25.2. 99% BANDWIDTH

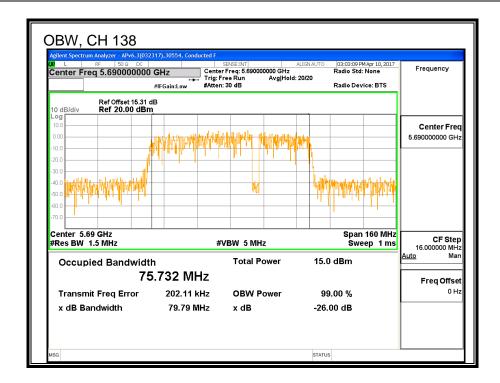
LIMITS

None; for reporting purposes only.

| Channel | Frequency | 99% BW UAT 2 (MHz) | |
|---------|-----------|--------------------------|--|
| Low | 5530 | 75.131 | |
| High | 5610 | 74.940 | |
| 138 | 5690 | 75.732 | |







8.25.3. AVERAGE POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

| Channel | Frequency | Power UAT 2 (dBm) |
|---------|-----------|----------------------|
| Low | 5530 | 14.84 |
| High | 5610 | 18.89 |
| 138 | 5690 | 18.77 |

8.25.4. OUTPUT POWER AND PPSD

LIMITS

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.

RESULTS

Bandwidth, Antenna Gain, and Limits

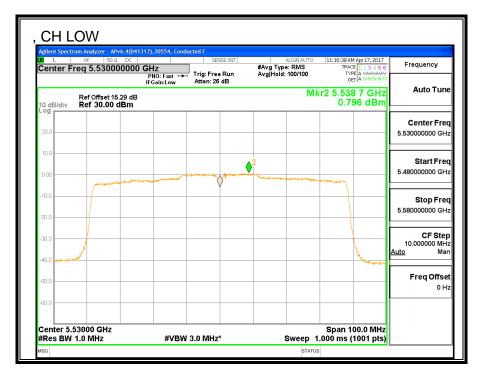
| Channel | Frequency | Min | Min | Directional | Power | PSD |
|---------|-----------|-------|-------|-------------|-------|-------|
| | | 26 dB | 99% | Gain | Limit | Limit |
| | | BW | BW | | | |
| | (MHz) | (MHz) | (MHz) | (dBi) | (dBm) | (dBm) |
| Low | 5530 | 82.20 | 75.13 | -2.25 | 24.00 | 11.00 |
| Mid | 5610 | 82.20 | 74.94 | -2.25 | 24.00 | 11.00 |

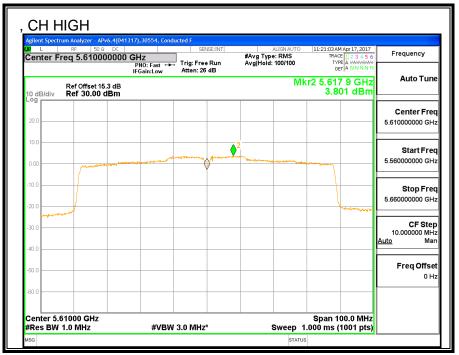
| Duty Cycle CF (dB) 0.20 | Included in Calculations of Corr'd PSD |
|-------------------------|--|
|-------------------------|--|

Output Power Results

| Channel Frequency | | UAT 2 | Total | Power | Power | |
|-------------------|---------------|----------------|-------------------------|----------------|------------------------|--|
| | | Meas | Corr'd | Limit | Margin | |
| | | Power | Power Power | | | |
| | | | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) | |
| Low | (MHz) 5530 | (dBm) 14.84 | (dBm) 14.84 | (dBm) 24.00 | (dB) -9.16 | |

| Channel | Frequency | UAT 2 | Total | PSD | PSD |
|---------|---------------|----------------|-------------------------|----------------|----------------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | (MHz) 5530 | (dBm) 0.796 | (dBm) 0.996 | (dBm) 11.00 | (dB) -10.00 |





8.25.5. 11ac HT80 UAT 2 SISO STRADDLE CHANNEL 138

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

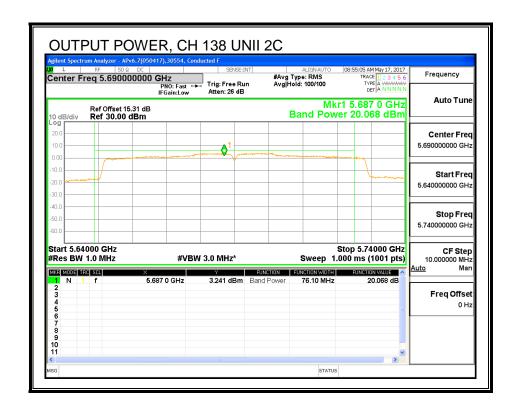
| Channel | Frequency | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------------|-------|-------|
| | | 26 dB | Gain | Gain | Limit | Limit |
| | | BW | for Power | for PSD | | |
| | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| 138 | 5690 | 82.20 | -2.25 | -2.25 | 24.00 | 11.00 |

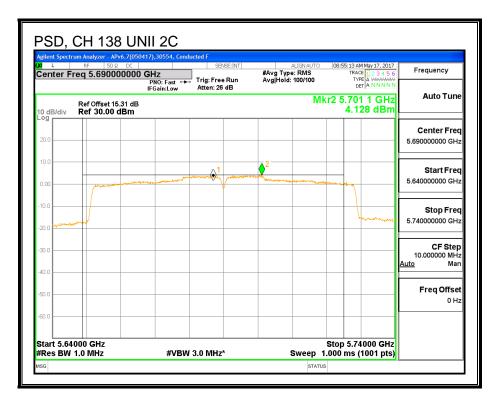
| Duty Cycle CF (dB) 0.20 | Included in Calculations of Corr'd Power & PSD |
|-------------------------|--|
|-------------------------|--|

Output Power Results

| Channel | Frequency | UAT 2 | Total | Power | Power |
|---------|-----------|-------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 138 | 5690 | 20.07 | 20.27 | 24.00 | -3.73 |

| | Channel | Frequency | UAT 2 | Total | PSD | PSD |
|---|---------|-----------|-------|--------|-------|--------|
| ı | | | Meas | Corr'd | Limit | Margin |
| ı | | | PSD | PSD | | |
| ı | | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| ſ | 138 | 5690 | 4.128 | 4.328 | 11.00 | -6.67 |





UNII-3 BAND

Antenna Gain and Limit

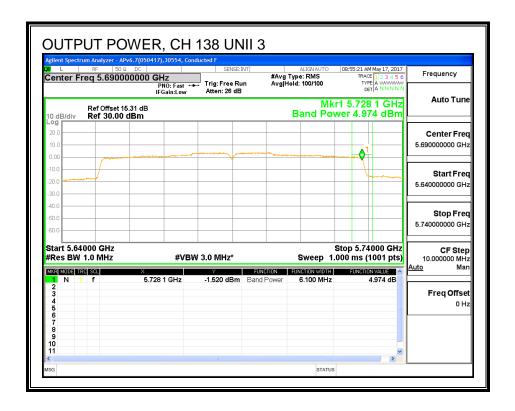
| Channel | Frequency | Min | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------|-------|
| | | 26 dB | Gain | Limit | Limit |
| | | BW | | | |
| | (MHz) | (MHz) | (dBi) | (dBm) | (dBm) |
| 138 | 5690 | 82.20 | -2.41 | 30.00 | 30.00 |

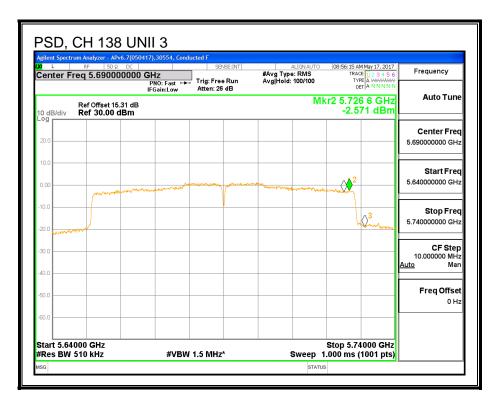
| Duty Cycle CF (dB) 0.20 | Included in Calculations of Corr'd Power & PSD |
|-------------------------|--|
|-------------------------|--|

Output Power Results

| Channel | Frequency | UAT 2 | Total | Power | Power |
|---------|-----------|-------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 138 | 5690 | 4.97 | 5.17 | 30.00 | -24.83 |

| Channel | Frequency | UAT 2 | Total | PSD | PSD | | |
|---------|-----------|--------|--------|-------|--------|--|--|
| | | Meas | Corr'd | Limit | Margin | | |
| | | PSD | PSD | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) | | |
| 138 | 5690 | -2.571 | -2.371 | 30.00 | -32.37 | | |





8.25.6. 6 dB BANDWIDTH

LIMITS

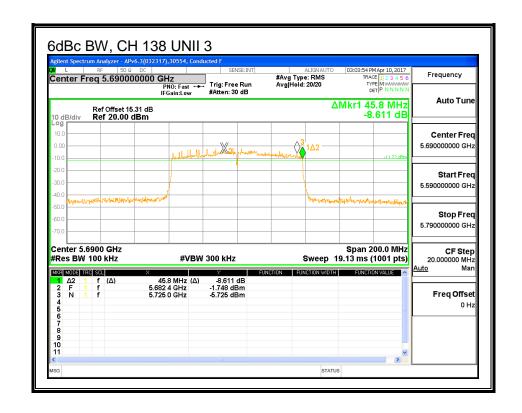
FCC §15.407 (e)

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

RESULTS

| Channel | Frequency | 6 dB Bandwidth |
|---------|-----------|----------------|
| | (MHz) | (MHz) |
| 138 | 5690 | 45.80 |

6 dB BANDWIDTH



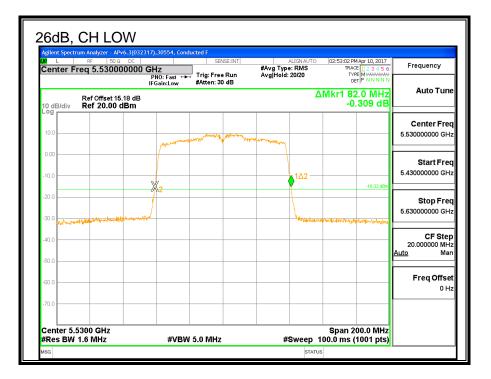
8.26. 11ac HT80 LAT 3 SISO MODE IN THE 5.6GHz BAND

8.26.1. 26 dB BANDWIDTH

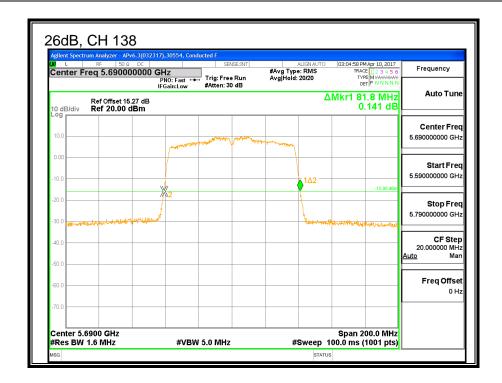
LIMITS

None; for reporting purposes only.

| Channel | Frequency | 26 dB BW LAT 3 (MHz) |
|---------|-----------|----------------------------|
| Low | 5530 | 82.0 |
| High | 5610 | 82.0 |
| 138 | 5690 | 81.8 |





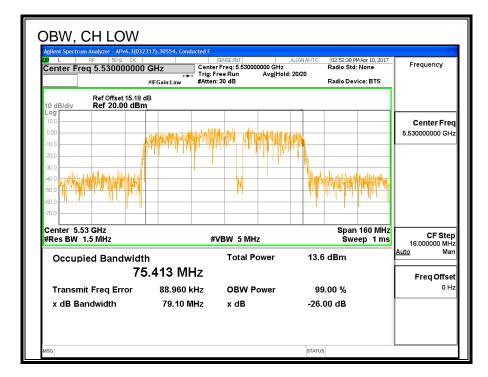


8.26.2. 99% BANDWIDTH

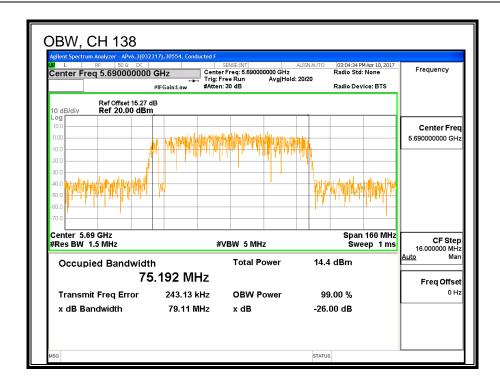
LIMITS

None; for reporting purposes only.

| Channel | Frequency | 99% BW LAT 3 (MHz) |
|---------|-----------|--------------------------|
| Low | 5530 | 75.413 |
| High | 5610 | 74.568 |
| 138 | 5690 | 75.192 |







8.26.3. AVERAGE POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

| Channel | Frequency | Power LAT 3 (dBm) |
|---------|-----------|-------------------|
| Low | 5530 | 14.88 |
| High | 5610 | 18.81 |
| 138 | 5690 | 18.93 |

8.26.4. OUTPUT POWER AND PPSD

LIMITS

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.

RESULTS

Bandwidth, Antenna Gain, and Limits

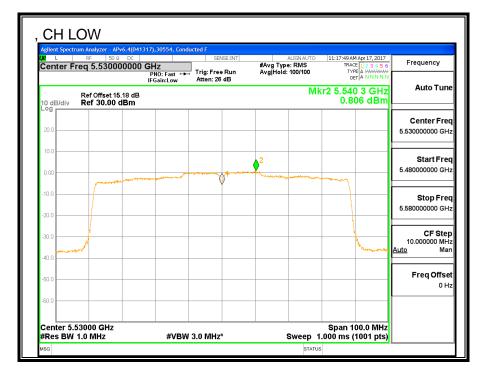
| Channel | Frequency | Min | Min | Directional | Power | PSD |
|---------|-----------|-------|-------|-------------|-------|-------|
| | | 26 dB | 99% | Gain | Limit | Limit |
| | | BW | BW | | | |
| | (MHz) | (MHz) | (MHz) | (dBi) | (dBm) | (dBm) |
| Low | 5530 | 82.00 | 75.41 | -0.41 | 24.00 | 11.00 |
| Mid | 5610 | 82.00 | 75.57 | -0.41 | 24.00 | 11.00 |

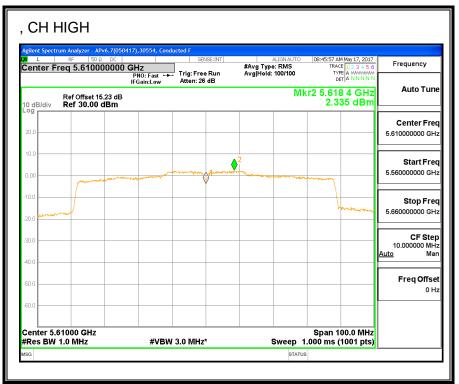
| Duty Cycle CF (dB) | 0.20 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

Output Power Results

| Channel | Frequency | LAT 3 | Total | Power | Power |
|---------|-----------|-------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5530 | 14.88 | 14.88 | 24.00 | -9.12 |
| Mid | 5610 | 18.81 | 18.81 | 24.00 | -5.19 |

| | 1 OF Modulo | | | | | |
|---------|---------------|-------------------------|-------------------------|----------------|-----------------------|--|
| Channel | Frequency | LAT 3 | Total | PSD | PSD | |
| | | Meas | Corr'd | Limit | Margin | |
| | | PSD | PSD | | | |
| | | | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) | |
| Low | (MHz) 5530 | (dBm) 0.806 | (dBm) 1.006 | (dBm) 11.00 | (dB) -9.99 | |





8.26.5. 11ac HT80 LAT 3 SISO STRADDLE CHANNEL 138

UNII-2C BAND

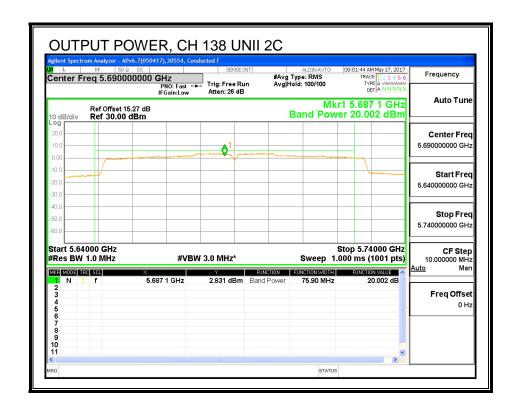
Bandwidth, Antenna Gain, and Limits

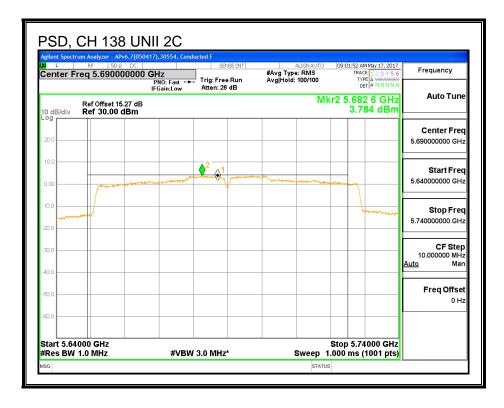
| Channel | Frequency | Min | Directional | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------------|-------|-------|
| | | 26 dB | Gain | Gain | Limit | Limit |
| | | BW | for Power | for PSD | | |
| | (MHz) | (MHz) | (dBi) | (dBi) | (dBm) | (dBm) |
| 138 | 5690 | 81.8 | -0.41 | -0.41 | 24.00 | 11.00 |

Output Power Results

| Channel | Frequency | LAT 3 | Total | Power | Power |
|---------|-----------|-------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 138 | 5690 | 20.00 | 20.20 | 24.00 | -3.80 |

| Channel | Frequency | LAT 3 | Total | PSD | PSD |
|---------|-----------|-------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 138 | 5690 | 3.78 | 3.98 | 11.00 | -7.02 |





UNII-3 BAND

Antenna Gain and Limit

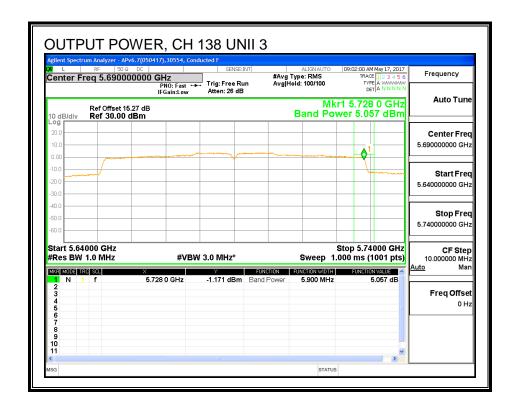
| Channel | Frequency | Min | Directional | Power | PSD |
|---------|-----------|-------|-------------|-------|-------|
| | | 26 dB | Gain | Limit | Limit |
| | | BW | | | |
| | (MHz) | (MHz) | (dBi) | (dBm) | (dBm) |
| 138 | 5690 | 81.80 | -0.15 | 30.00 | 30.00 |

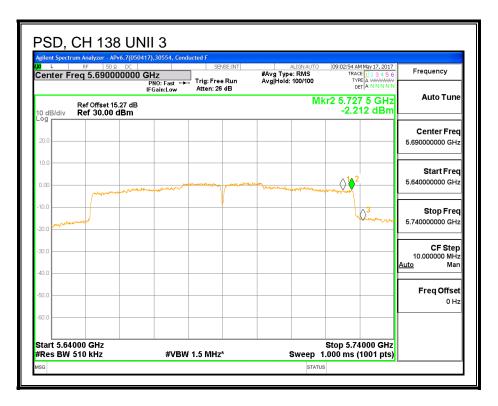
| D | uty Cycle CF (dB) | 0.20 | Included in Calculations of Corr'd Power & PSD |
|---|-------------------|------|--|
|---|-------------------|------|--|

Output Power Results

| Channel | Frequency | LAT 3 | Total | Power | Power |
|---------|-----------|-------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 138 | 5690 | 5.06 | 5.26 | 30.00 | -24.74 |

| Channe | I Frequency | LAT 3 | Total | PSD | PSD |
|--------|-------------|--------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| 138 | 5690 | -2.212 | -2.012 | 30.00 | -32.01 |





8.26.6. 6 dB BANDWIDTH

LIMITS

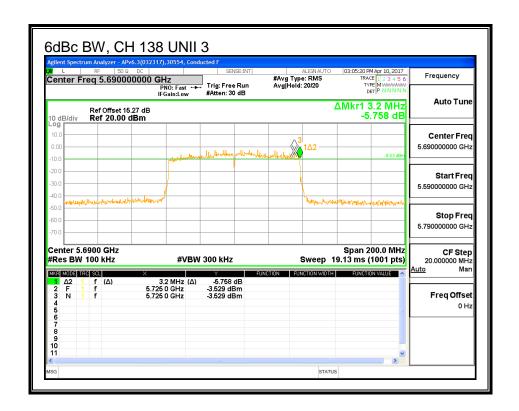
FCC §15.407 (e)

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

RESULTS

| Channel | Frequency | 6 dB Bandwidth |
|---------|-----------|----------------|
| | (MHz) | (MHz) |
| High | 5690 | 3.20 |

6 dB BANDWIDTH



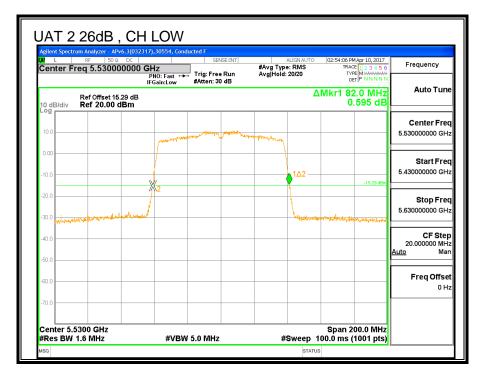
8.27. 11ac HT80 2TX CDD MIMO MODE IN THE 5.6GHz BAND

8.27.1. 26 dB BANDWIDTH

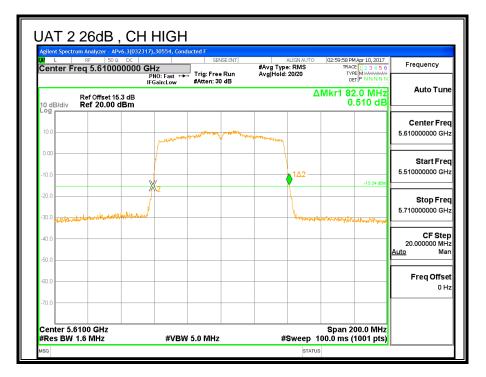
LIMITS

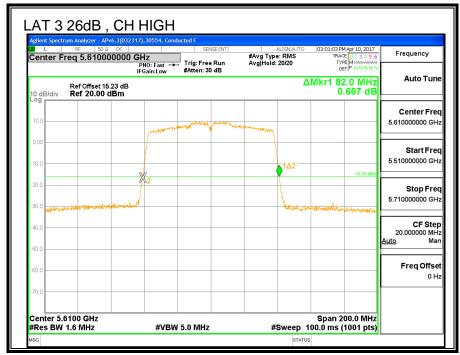
None; for reporting purposes only.

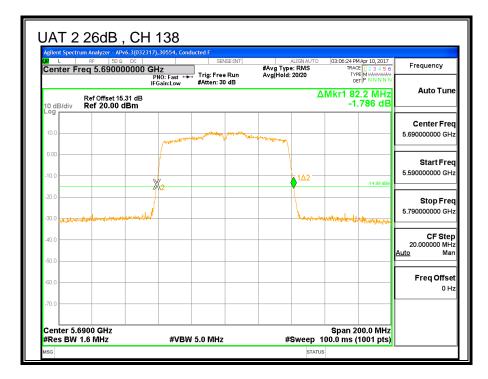
| Channel | Frequency | 26 dB BW UAT 2 (MHz) | 26 dB BW LAT 3 (MHz) |
|---------|-----------|----------------------------|----------------------------|
| Low | 5530 | 82.0 | 82.0 |
| High | 5610 | 82.0 | 82.0 |
| 138 | 5690 | 82.2 | 82.2 |

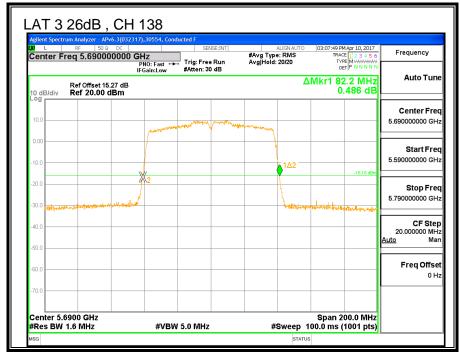










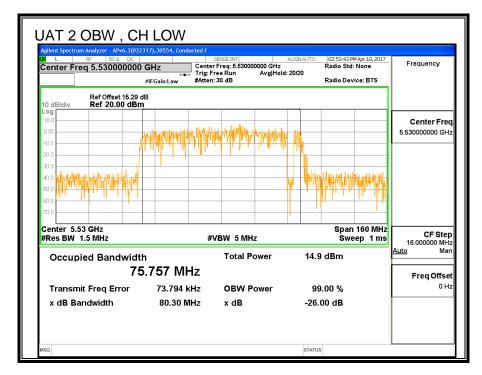


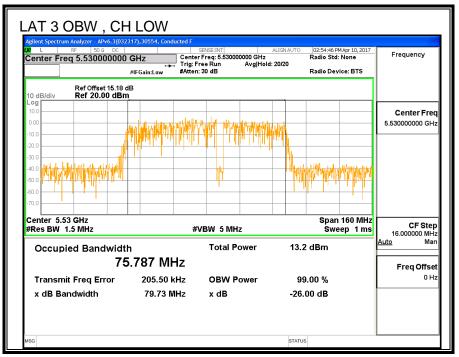
8.27.2. 99% BANDWIDTH

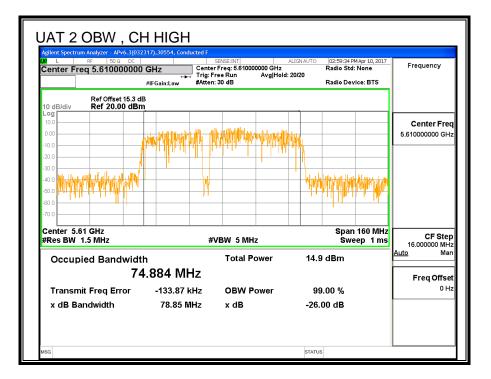
LIMITS

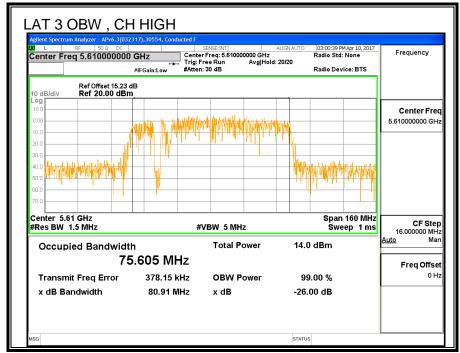
None; for reporting purposes only.

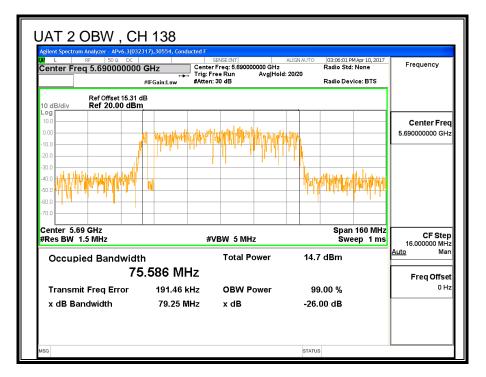
| Channel | Frequency | 99% BW UAT 2 (MHz) | 99% BW LAT 3 (MHz) |
|---------|-----------|--------------------------|--------------------------|
| Low | 5530 | 75.757 | 75.787 |
| High | 5610 | 74.884 | 75.605 |
| 138 | 5690 | 75.586 | 75.567 |

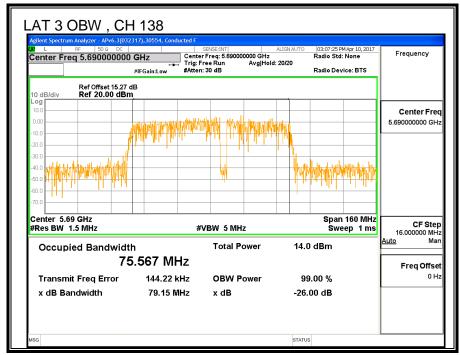












8.27.3. AVERAGE POWER

| ID: | 30554 | Date: | 7/13/2017 | |
|-----|-------|-------|-----------|--|
|-----|-------|-------|-----------|--|

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

| Channel | Frequency | UAT 2 | LAT 3 | Total |
|---------|-----------|-------|-------|-------|
| | | Power | Power | Power |
| | (MHz) | (dBm) | (dBm) | (dBm) |
| Low | 5530 | 14.41 | 14.39 | 17.41 |
| Mid | 5610 | 18.92 | 18.88 | 21.91 |
| High | 5690 | 18.90 | 18.86 | 21.89 |

8.27.4. OUTPUT POWER AND PPSD

LIMITS

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

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

| UAT 2 | LAT 3 | Uncorrelated Chains | |
|---------|---------|---------------------|--|
| Antenna | Antenna | Directional | |
| Gain | Gain | Gain | |
| (dBi) | (dBi) | (dBi) | |
| -2.25 | -0.41 | -1.23 | |

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

| UAT 2 | LAT 3 | Correlated Chains |
|---------|---------|-------------------|
| Antenna | Antenna | Directional |
| Gain | Gain | Gain |
| (dBi) | (dBi) | (dBi) |
| -2.25 | -0.41 | 1.73 |

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 | 5530 | 82 | 75.757 | -1.25 | 1.71 | 24.00 | 11.00 |
| | | | | | | | |

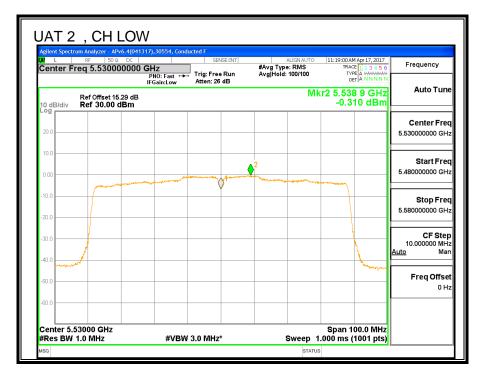
| Duty Cycle CF (dB) | 0.20 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

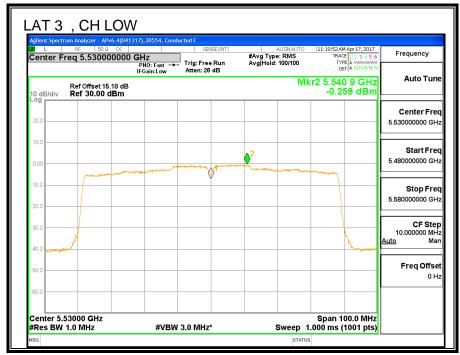
Output Power Results

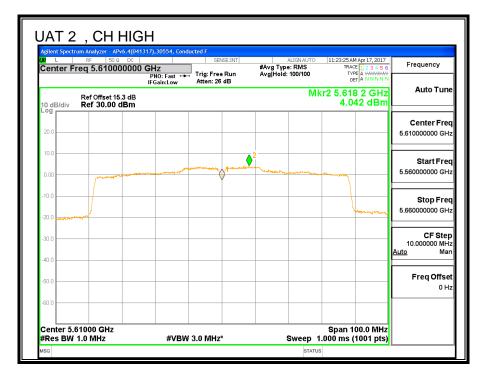
| Channel | Frequency | UAT 2 | LAT 3 | Total | Power | Power |
|---------|-----------|-------|-------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | Power | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5530 | 14.41 | 14.39 | 17.41 | 24.00 | -6.59 |
| High | 5610 | 18.92 | 18.88 | 21.91 | 24.00 | -2.09 |

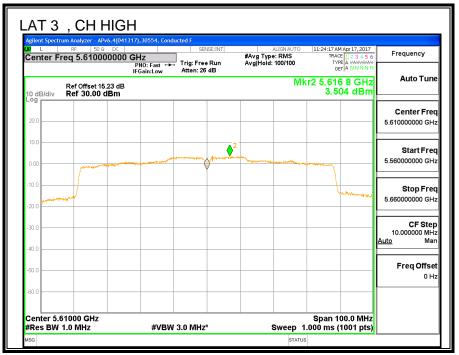
PSD Results

| . 05 | uito | | | | | |
|---------|-----------|-------|-------|--------|-------|--------|
| Channel | Frequency | UAT 2 | LAT 3 | Total | PSD | PSD |
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5530 | -0.31 | -0.26 | 2.93 | 11.00 | -8.07 |
| High | 5610 | 4.04 | 3.50 | 6.99 | 11.00 | -4.01 |









8.27.5. 11ac HT80 2TX CDD MIMO STRADDLE CHANNEL 138

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) |
| 138 | 5690 | 82.20 | -1.23 | 1.73 | 24.00 | 11.00 |

| Duty Cycle CF (dB) 0.20 | Included in Calculations of Corr'd Power & PSD |
|-------------------------|--|
|-------------------------|--|

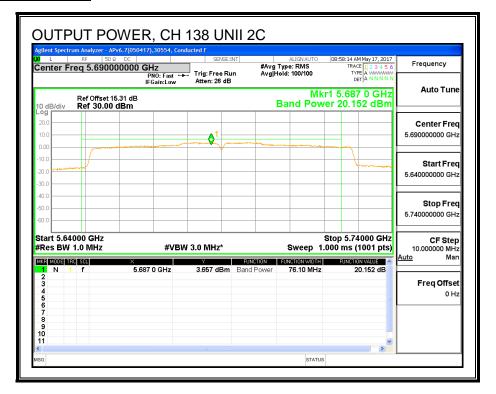
Output Power Results

| Channel | Frequency | UAT 2 | LAT 3 | Total | Power | Power |
|---------|-----------|-------|-------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | Power | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 138 | 5690 | 20.15 | 20.04 | 23.31 | 24.00 | -0.69 |

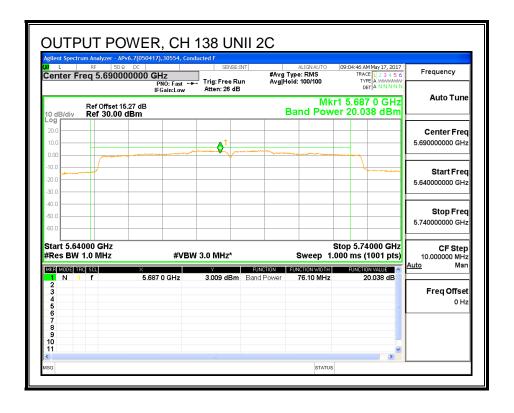
PSD Results

| Channel | Frequency | UAT 2 | LAT 3 | Total | PSD | PSD |
|---------|-----------|-------|-------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 138 | 5690 | 3.99 | 4.06 | 7.23 | 11.00 | -3.77 |

OUTPUT POWER, UAT 2

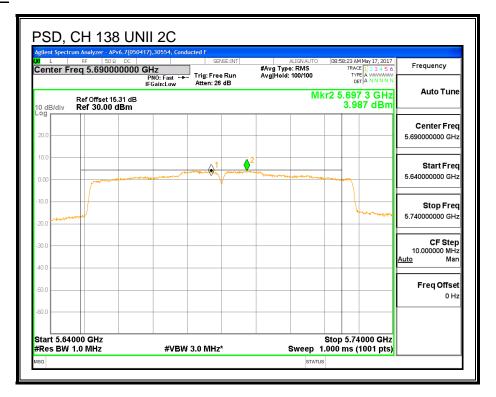


OUTPUT POWER, LAT 3

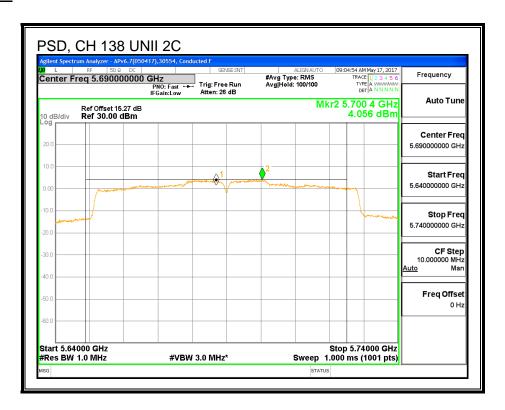


Page 366 of 779

PSD, UAT 2



PSD, LAT 3



DIRECTIONAL ANTENNA GAIN

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

| UAT 2 | LAT 3 | Uncorrelated Chains |
|---------|---------|---------------------|
| Antenna | Antenna | Directional |
| Gain | Gain | Gain |
| (dBi) | (dBi) | (dBi) |
| -1.61 | -0.15 | -0.82 |

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

| UAT 2 | LAT 3 | Correlated Chains |
|---------|---------|-------------------|
| Antenna | Antenna | Directional |
| Gain | Gain | Gain |
| (dBi) | (dBi) | (dBi) |
| -1.61 | -0.15 | 2.16 |

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) |
| 138 | 5690 | 82.20 | -0.82 | 2.16 | 30.00 | 30.00 |

| Duty Cycle CF (dB) | 0.20 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|
|--------------------|------|--|

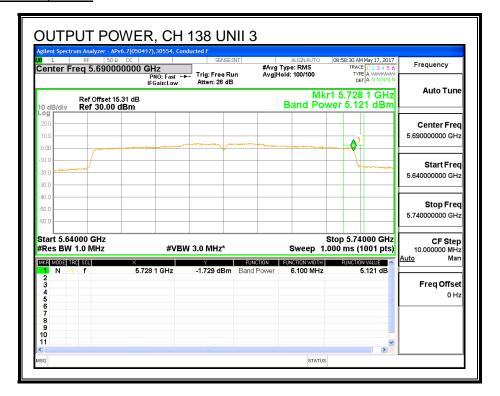
Output Power Results

| Channel | Frequency | UAT 2 | LAT 3 | Total | Power | Power |
|---------|-----------|-------|-------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | Power | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 138 | 5690 | 5.12 | 5.22 | 8.38 | 30.00 | -21.62 |

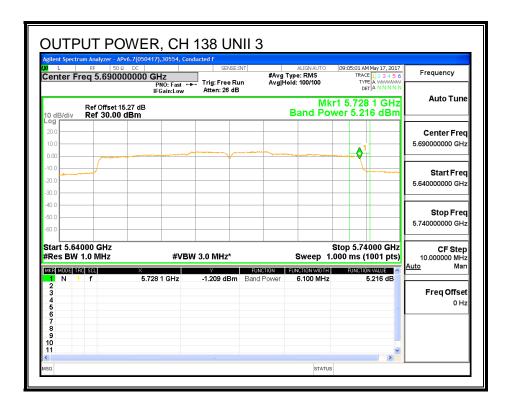
PSD Results

| Channel | Frequency | UAT 2 | LAT 3 | Total | PSD | PSD |
|---------|-----------|--------|--------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| 138 | 5690 | -1.951 | -2.306 | 1.085 | 30.00 | -28.91 |

OUTPUT POWER, UAT 2

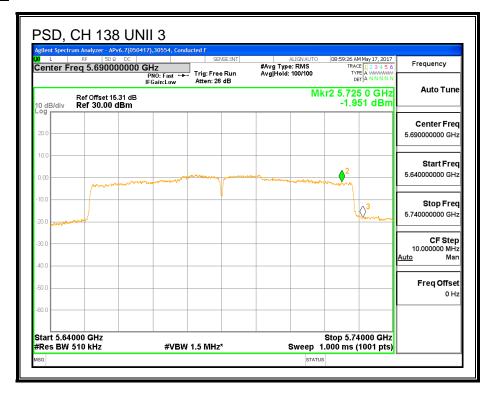


OUTPUT POWER, LAT 3



Page 369 of 779

PSD, UAT 2



PSD, LAT 3



8.27.6. 6 dB BANDWIDTH

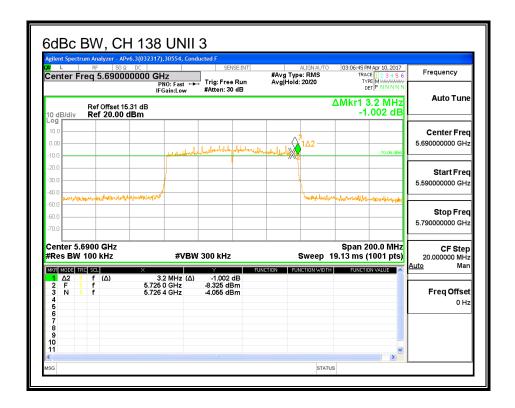
LIMITS

FCC §15.407 (e)

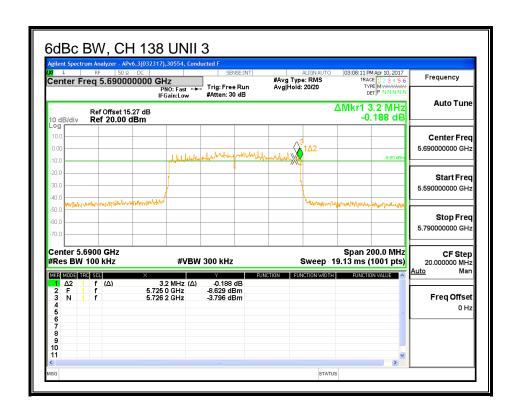
The minimum 6 dB bandwidth shall be at least 500 kHz.

| Channel | Frequency | 6 dB BW | 6 dB BW |
|---------|-----------|---------|---------|
| | | UAT 2 | LAT 3 |
| | (MHz) | (MHz) | (MHz) |
| High | 5690 | 3.20 | 3.20 |

UAT 2



LAT 3



8.28. 11n HT20 UAT 2 SISO MODE IN THE 5.8GHz BAND

8.28.1. 6 dB BANDWIDTH

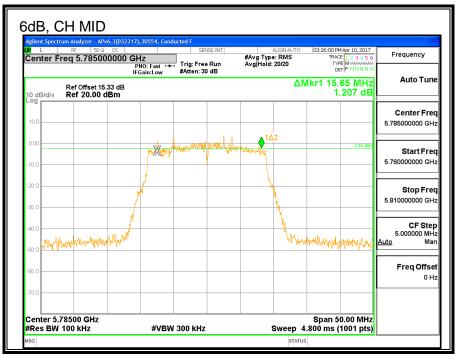
LIMITS

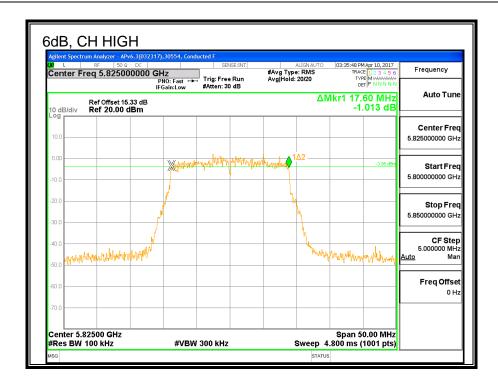
FCC §15.407 (e)

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

| Channel | Frequency | 6 dB BW UAT 2 (MHz) | Minimum Limit (MHz) |
|---------|-----------|---------------------------|------------------------|
| Low | 5745 | 17.35 | 0.5 |
| Mid | 5785 | 15.65 | 0.5 |
| High | 5825 | 17.60 | 0.5 |





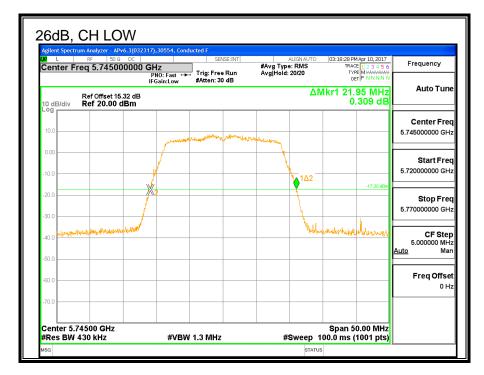


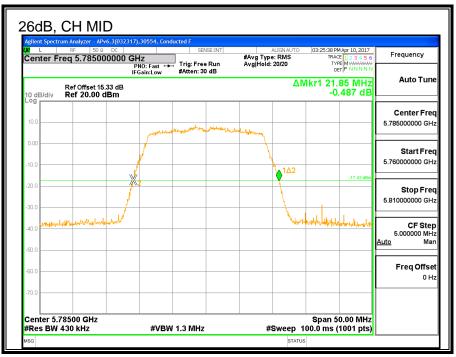
8.28.2. 26 dB BANDWIDTH

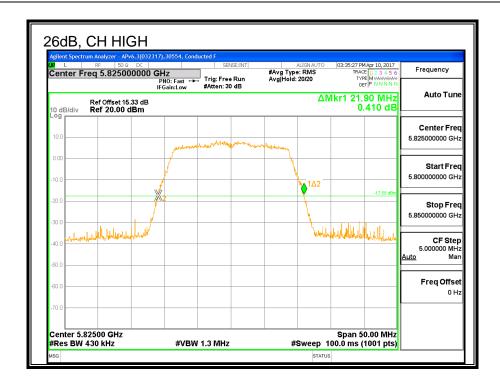
LIMITS

None; for reporting purposes only.

| Channel | Frequency | 26 dB BW UAT 2 (MHz) |
|---------|-----------|----------------------------|
| Low | 5745 | 21.95 |
| Mid | 5785 | 21.85 |
| High | 5825 | 21.90 |





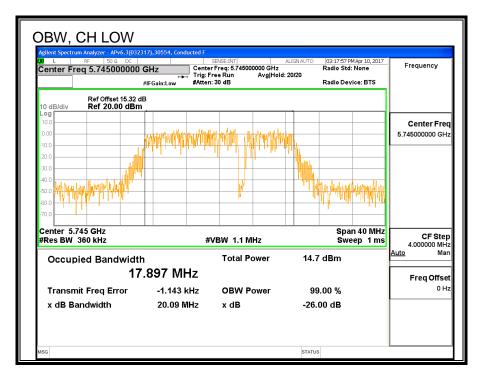


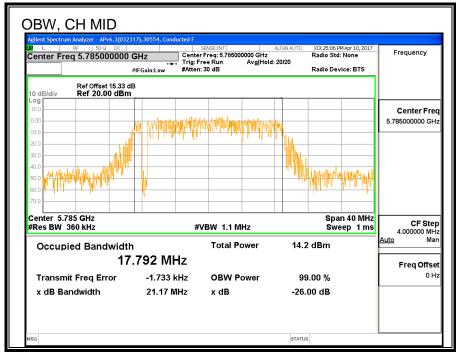
8.28.3. 99% BANDWIDTH

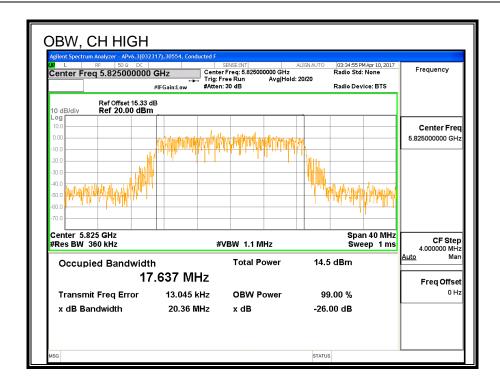
LIMITS

None; for reporting purposes only.

| Channel | Frequency | 99% BW UAT 2 (MHz) |
|---------|-----------|--------------------------|
| Low | 5745 | 17.897 |
| Mid | 5785 | 17.792 |
| High | 5825 | 17.637 |







8.28.4. AVERAGE POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

| Channel | Frequency | Power UAT 2 (dBm) |
|---------|-----------|-------------------|
| Low | 5745 | 20.81 |
| Mid | 5785 | 20.77 |
| High | 5825 | 20.90 |

8.28.5. OUTPUT POWER

| ID: 30554 Date: 7/13/20 |
|---------------------------------------|
|---------------------------------------|

LIMITS

FCC §15.407 (a) (3)

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

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.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limit

| Channel | Frequency | Directional | Power |
|---------|-----------|-------------|-------|
| | | Gain | Limit |
| | | for Power | |
| | (MHz) | (dBi) | (dBm) |
| Low | 5745 | -1.61 | 30.00 |
| Mid | 5785 | -1.61 | 30.00 |
| High | 5825 | -1.61 | 30.00 |

Output Power Results

| Channel | Frequency | UAT 2 | Total | Power | Power |
|---------|-----------|-------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5745 | 20.81 | 20.81 | 30.00 | -9.19 |
| Mid | 5785 | 20.77 | 20.77 | 30.00 | -9.23 |
| High | 5825 | 20.90 | 20.90 | 30.00 | -9.10 |

8.28.6. POWER SPECTRAL DENSITY

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limits

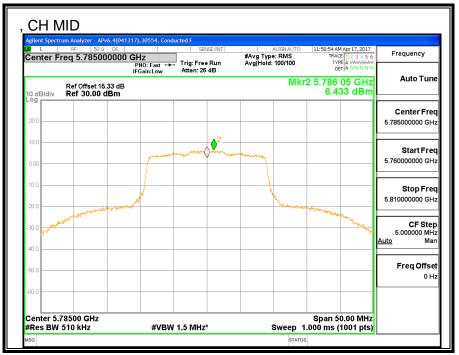
| Channel | Frequency | Directional | PSD |
|---------|-----------|-------------|-------|
| | | Gain | Limit |
| | (MHz) | (dBi) | (dBm) |
| Low | 5745 | -1.61 | 30.00 |
| Mid | 5785 | -1.61 | 30.00 |
| High | 5825 | -1.61 | 30.00 |

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

PSD Results

| Channel | Frequency | UAT 2 | Total | PSD | PSD |
|---------|-----------|-------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5745 | 6.723 | 6.723 | 30.00 | -23.28 |
| Mid | 5785 | 6.433 | 6.433 | 30.00 | -23.57 |
| High | 5825 | 6.512 | 6.512 | 30.00 | -23.49 |







11n HT20 LAT 3 SISO MODE IN THE 5.8GHz BAND 8.29.

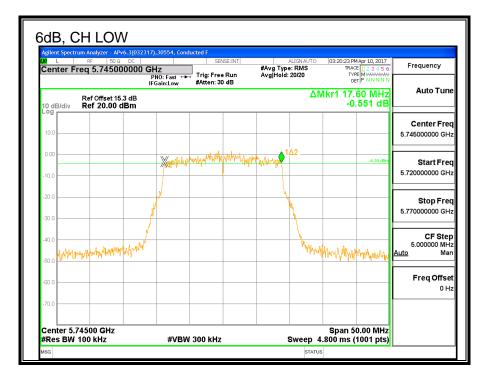
8.29.1. 6 dB BANDWIDTH

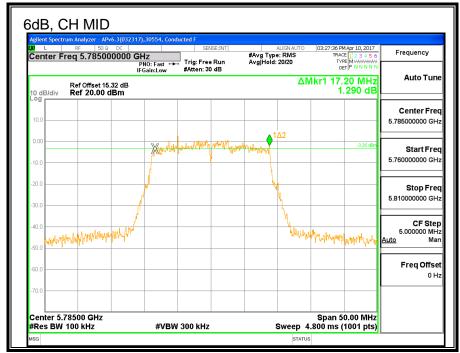
LIMITS

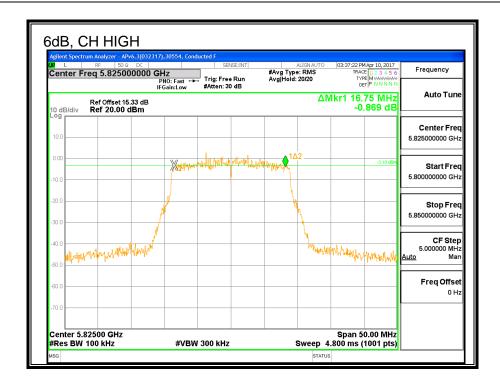
FCC §15.407 (e)

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

| Channel | Frequency | 6 dB BW LAT 3 (MHz) | Minimum Limit (MHz) |
|---------|-----------|---------------------------|------------------------|
| Low | 5745 | 17.60 | 0.5 |
| Mid | 5785 | 17.20 | 0.5 |
| High | 5825 | 16.75 | 0.5 |





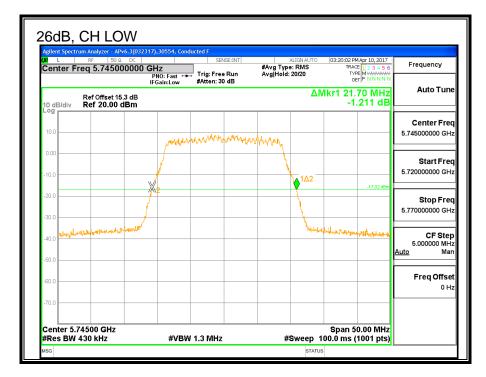


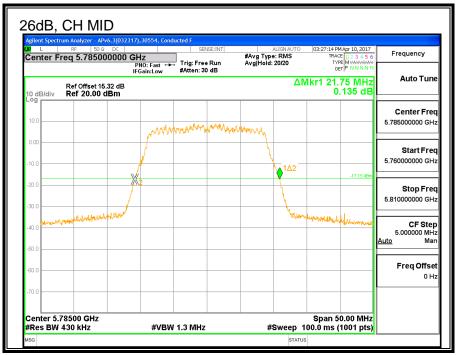
8.29.2. 26 dB BANDWIDTH

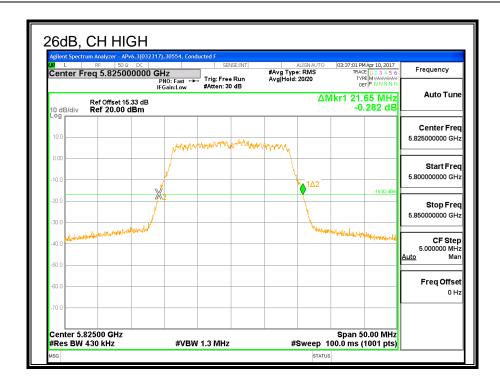
LIMITS

None; for reporting purposes only.

| Channel | Frequency | 26 dB BW LAT 3 (MHz) |
|---------|-----------|----------------------------|
| Low | 5745 | 21.70 |
| Mid | 5785 | 21.75 |
| High | 5825 | 21.65 |





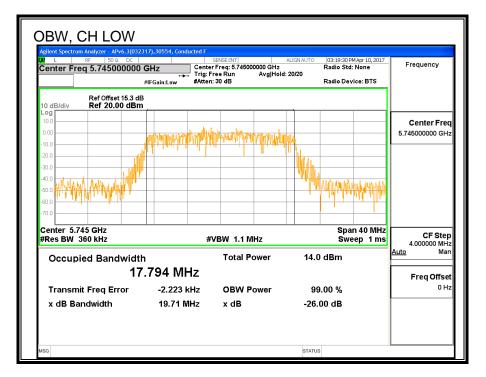


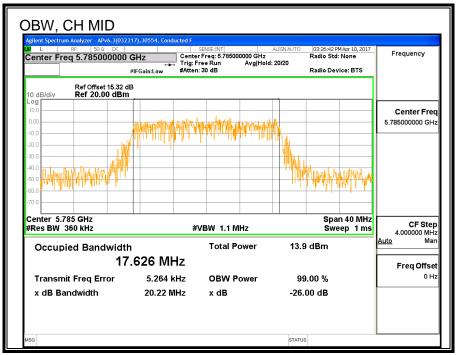
8.29.3. 99% BANDWIDTH

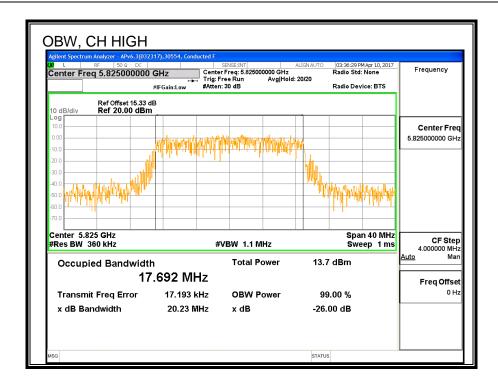
LIMITS

None; for reporting purposes only.

| Channel | Frequency | 99% BW LAT 3 (MHz) |
|---------|-----------|--------------------------|
| Low | 5745 | 17.794 |
| Mid | 5785 | 17.626 |
| High | 5825 | 17.692 |







8.29.4. AVERAGE POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

| Channel | Frequency | Power LAT 3 (dBm) |
|---------|-----------|-------------------|
| Low | 5745 | 20.77 |
| Mid | 5785 | 20.94 |
| High | 5825 | 20.89 |

8.29.5. OUTPUT POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

FCC §15.407 (a) (3)

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

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.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limit

| Channel | Frequency | Directional | Power |
|---------|-----------|-------------|-------|
| | | Gain | Limit |
| | | for Power | |
| | (MHz) | (dBi) | (dBm) |
| Low | 5745 | -0.15 | 30.00 |
| Mid | 5785 | -0.15 | 30.00 |
| High | 5825 | -0.15 | 30.00 |

Output Power Results

| - Catpat : | Output i Ower Results | | | | | |
|------------------------|-----------------------|-------|--------|-------|--------|--|
| Channel | Frequency | LAT 3 | Total | Power | Power | |
| | | Meas | Corr'd | Limit | Margin | |
| | | Power | Power | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) | |
| Low | 5745 | 20.77 | 20.77 | 30.00 | -9.23 | |
| Mid | 5785 | 20.94 | 20.94 | 30.00 | -9.06 | |
| High | 5825 | 20.89 | 20.89 | 30.00 | -9.11 | |

8.29.6. POWER SPECTRAL DENSITY

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

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

RESULTS

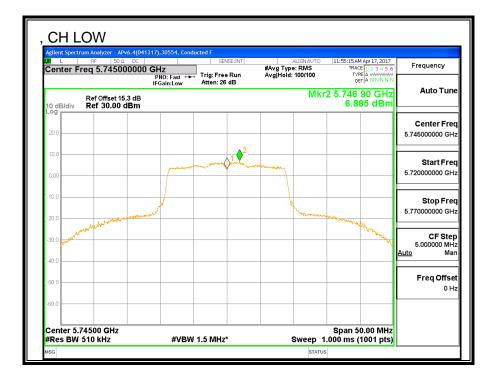
Antenna Gain and Limits

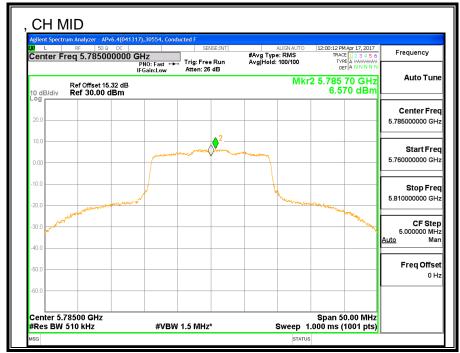
| Channel | Frequency | Directional | PSD |
|---------|-----------|-------------|-------|
| | | Gain | Limit |
| | (MHz) | (dBi) | (dBm) |
| Low | 5745 | -0.15 | 30.00 |
| Mid | 5785 | -0.15 | 30.00 |
| High | 5825 | -0.15 | 30.00 |

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

PSD Results

| Channel | Frequency | LAT 3 | Total | PSD | PSD |
|---------|-----------|-------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5745 | 6.885 | 6.885 | 30.00 | -23.12 |
| Mid | 5785 | 6.570 | 6.570 | 30.00 | -23.43 |
| High | 5825 | 6.570 | 6.570 | 30.00 | -23.43 |







8.30. 11n HT20 2TX CDD MIMO MODE IN THE 5.8GHz BAND

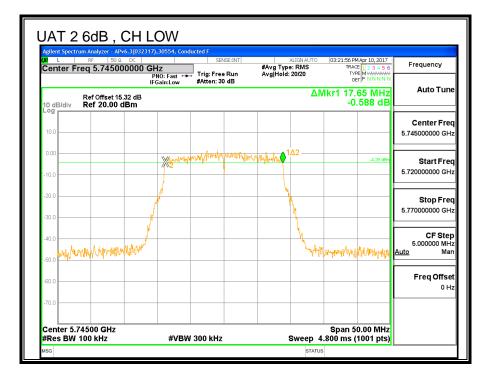
8.30.1. 6 dB BANDWIDTH

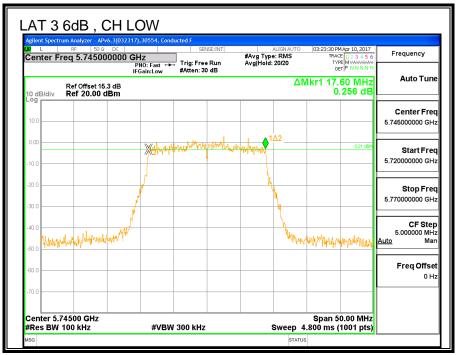
LIMITS

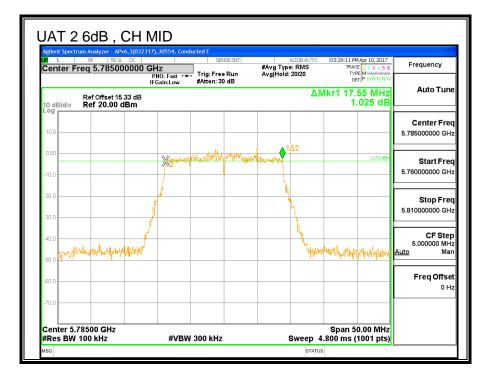
FCC §15.407 (e)

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

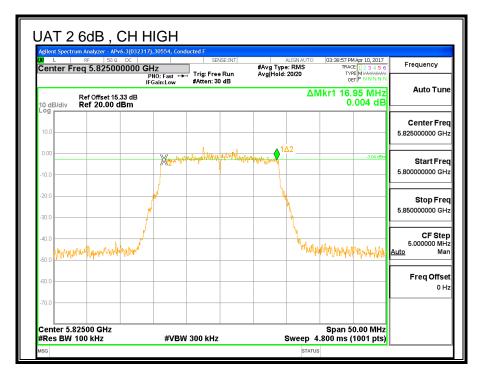
| Channel | Frequency | 6 dB BW UAT 2 (MHz) | 6 dB BW LAT 3 (MHz) | Minimum Limit (MHz) |
|---------|-----------|---------------------------|---------------------------|------------------------|
| Low | 5745 | 17.65 | 17.60 | 0.5 |
| Mid | 5785 | 17.55 | 17.60 | 0.5 |
| High | 5825 | 16.95 | 17.65 | 0.5 |

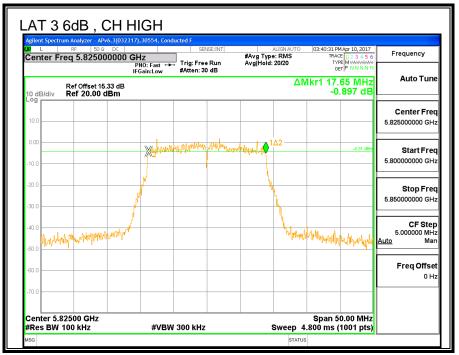










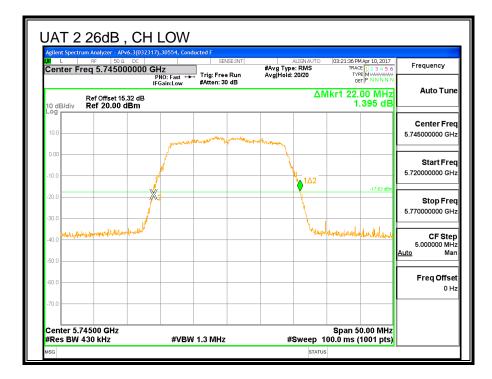


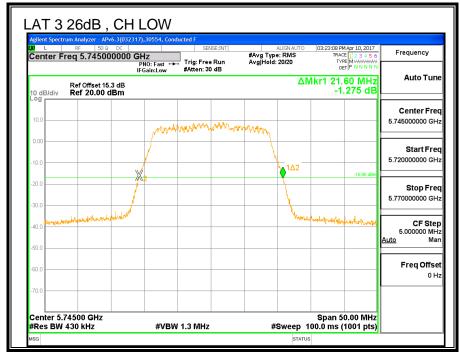
8.30.2. 26 dB BANDWIDTH

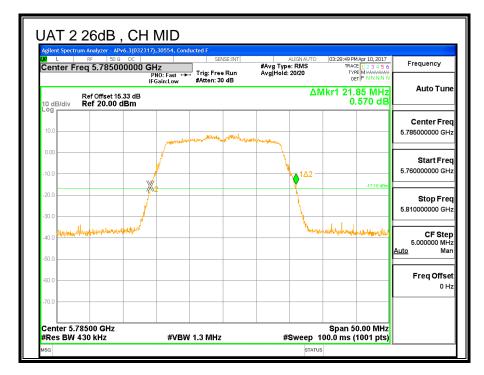
LIMITS

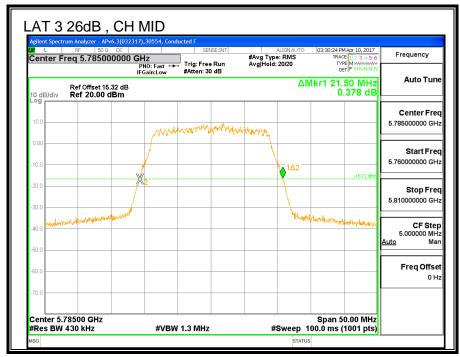
None; for reporting purposes only.

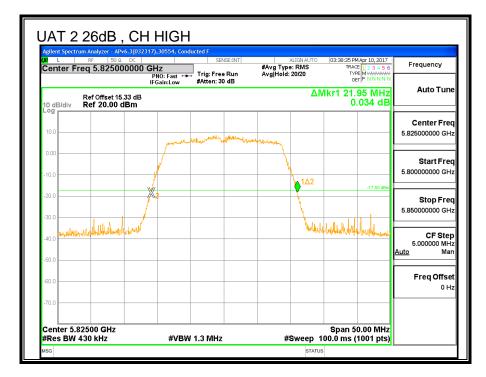
| Channel | Frequency | 26 dB BW UAT 2 (MHz) | 26 dB BW LAT 3 (MHz) |
|---------|-----------|----------------------------|----------------------------|
| Low | 5745 | 22.00 | 21.60 |
| Mid | 5785 | 21.85 | 21.50 |
| High | 5825 | 21.95 | 21.65 |

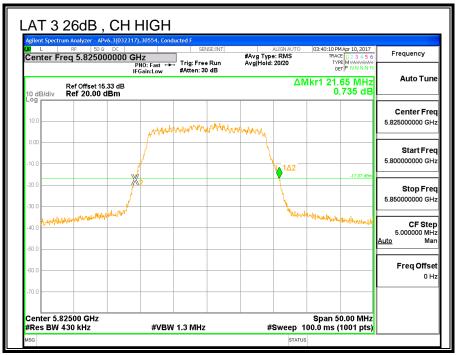










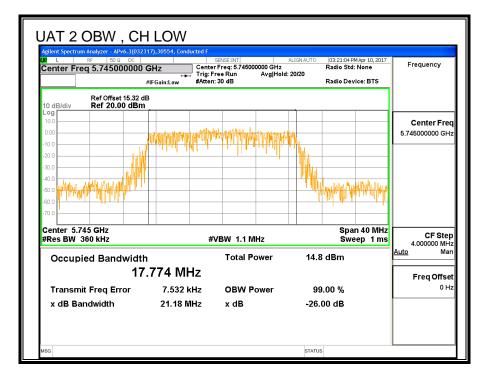


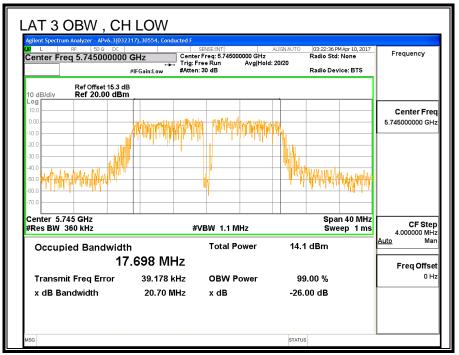
8.30.3. 99% BANDWIDTH

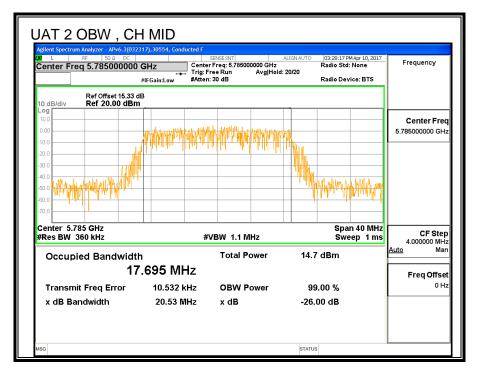
LIMITS

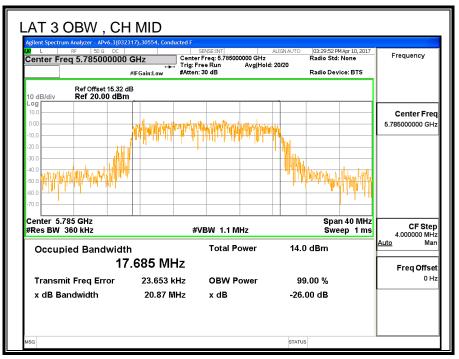
None; for reporting purposes only.

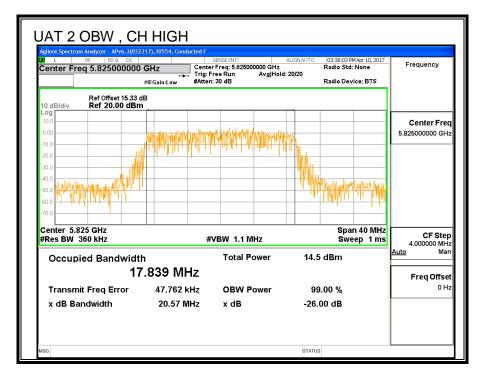
| Channel | Frequency | 99% BW UAT 2 (MHz) | 99% BW LAT 3 (MHz) |
|---------|-----------|--------------------------|--------------------------|
| Low | 5745 | 17.774 | 17.698 |
| Mid | 5785 | 17.695 | 17.685 |
| High | 5825 | 17.839 | 17.803 |

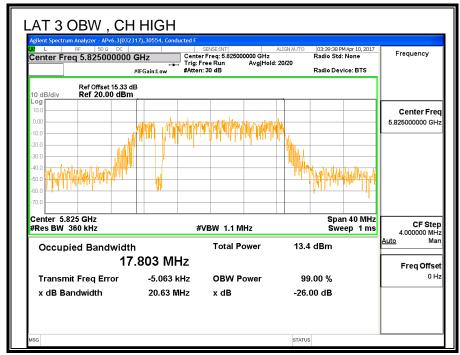












8.30.4. AVERAGE POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

| Channel | Frequency | UAT 2 | LAT 3 | Total |
|---------|-----------|-------|-------|-------|
| | | Power | Power | Power |
| | (MHz) | (dBm) | (dBm) | (dBm) |
| Low | 5745 | 20.83 | 20.94 | 23.90 |
| Mid | 5785 | 20.89 | 20.85 | 23.88 |
| High | 5825 | 20.78 | 20.91 | 23.86 |

8.30.5. OUTPUT POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

FCC §15.407 (a) (3)

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

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.

DIRECTIONAL ANTENNA GAIN

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

| Antenna | Antenna | Directional |
|---------|---------|-------------|
| Gain | Gain | Gain |
| (dBi) | (dBi) | (dBi) |
| -1.61 | -0.15 | -0.82 |

RESULTS

Antenna Gain and Limit

| Channel | Frequency | Directional | Power |
|---------|-----------|-------------|-------|
| | | Gain | Limit |
| | | for Power | |
| | (MHz) | (dBi) | (dBm) |
| Low | 5745 | -0.82 | 30.00 |
| Mid | 5785 | -0.82 | 30.00 |
| High | 5825 | -0.82 | 30.00 |

Output Power Results

| Channel | Frequency | UAT 2 | LAT 3 | Total | Power | Power |
|---------|-----------|-------|-------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | Power | Power | Power | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5745 | 20.83 | 20.94 | 23.90 | 30.00 | -6.10 |
| Mid | 5785 | 20.89 | 20.85 | 23.88 | 30.00 | -6.12 |
| High | 5825 | 20.78 | 20.91 | 23.86 | 30.00 | -6.14 |

8.30.6. POWER SPECTRAL DENSITY

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

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

| UAT 2 | LAT 3 | Correlated Chains |
|---------|---------|--------------------------|
| Antenna | Antenna | Directional |
| Gain | Gain | Gain |
| (dBi) | (dBi) | (dBi) |
| -1.61 | -0.15 | 2.16 |

RESULTS

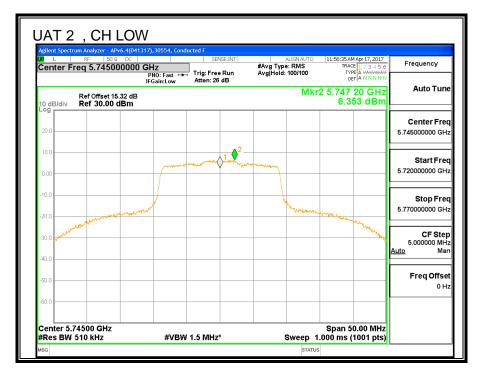
Antenna Gain and Limits

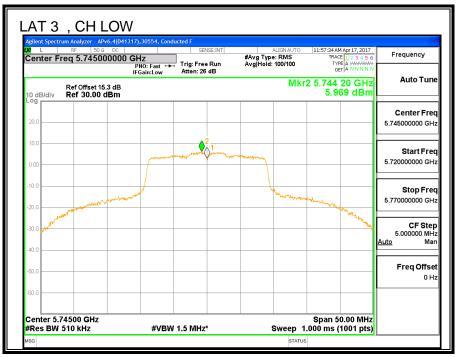
| Channel | Frequency | Directional | PSD |
|---------|-----------|-------------|-------|
| | | Gain | Limit |
| | (MHz) | (dBi) | (dBm) |
| Low | 5745 | 2.16 | 30.00 |
| Mid | 5785 | 2.16 | 30.00 |
| High | 5825 | 2.16 | 30.00 |

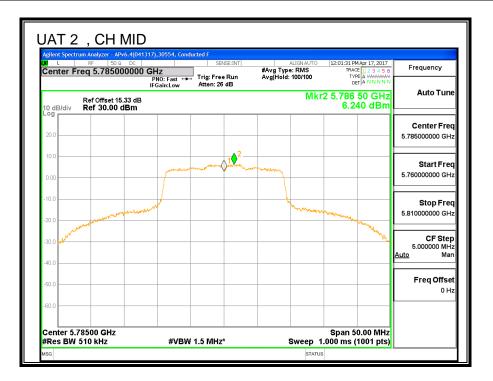
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

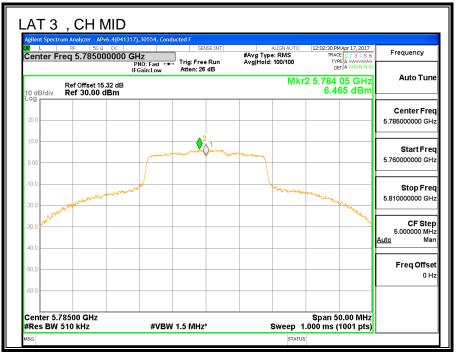
PSD Results

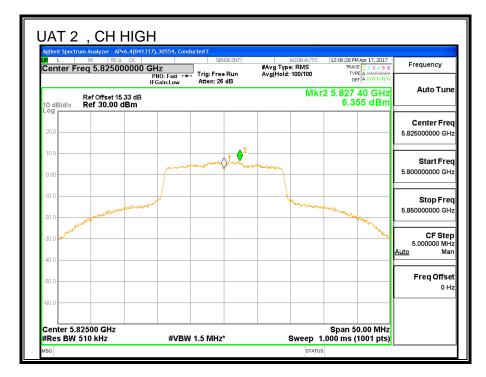
| Channel | Frequency | UAT 2 | LAT 3 | Total | PSD | PSD |
|---------|-----------|-------|-------|--------|-------|--------|
| | | Meas | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5745 | 6.353 | 5.969 | 9.18 | 30.00 | -20.82 |
| Mid | 5785 | 6.240 | 6.465 | 9.36 | 30.00 | -20.64 |
| High | 5825 | 6.355 | 6.148 | 9.26 | 30.00 | -20.74 |

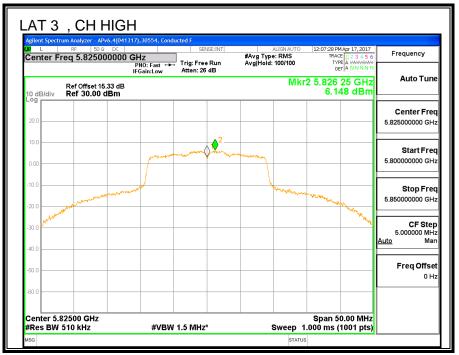












8.31. 11n HT40 UAT 2 SISO MODE IN THE 5.8GHz BAND

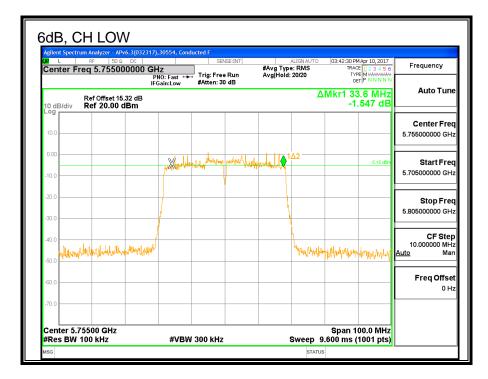
8.31.1. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

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

| Channel | Frequency | 6 dB BW UAT 2 (MHz) | Minimum Limit (MHz) |
|---------|-----------|---------------------------|------------------------|
| Low | 5755 | 33.60 | 0.5 |
| High | 5795 | 35.80 | 0.5 |



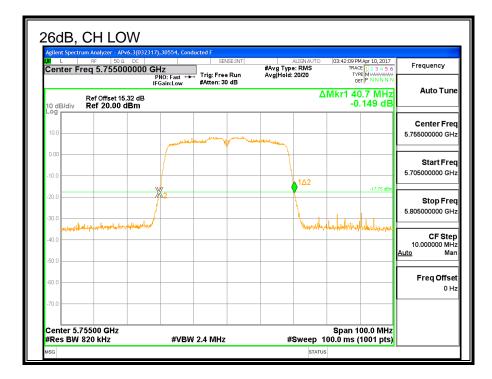


8.31.2. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

| Channel | Frequency | 26 dB BW UAT 2 (MHz) |
|---------|-----------|----------------------------|
| Low | 5755 | 40.7 |
| High | 5795 | 40.7 |



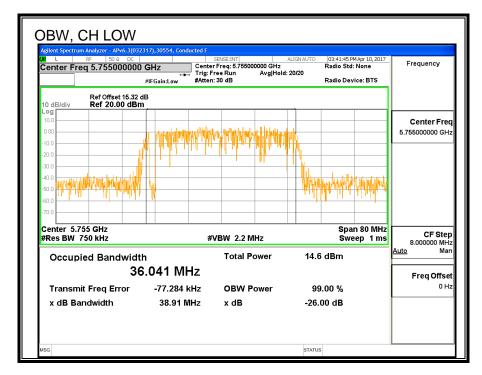


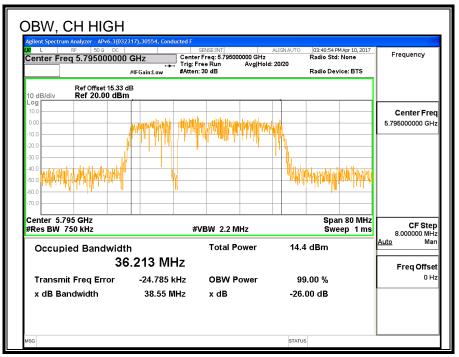
8.31.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

| Channel | Frequency | 99% BW UAT 2 (MHz) |
|---------|-----------|--------------------------|
| Low | 5755 | 36.041 |
| High | 5795 | 36.213 |





8.31.4. AVERAGE POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

| Channel | Frequency | Power UAT 2 (dBm) | |
|---------|-----------|----------------------|--|
| Low | 5755 | 19.28 | |
| High | 5795 | 19.41 | |

8.31.5. OUTPUT POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

FCC §15.407 (a) (3)

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

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.

DIRECTIONAL ANTENNA GAIN

RESULTS

Antenna Gain and Limit

| Channel | Frequency | Directional | Power |
|---------|-----------|-------------|-------|
| | | Gain | Limit |
| | (MHz) | (dBi) | (dBm) |
| Low | 5755 | -1.61 | 30.00 |
| High | 5795 | -1.61 | 30.00 |

Output Power Results

| Channel | Frequency | UAT 2 | Total | Power | Power |
|---------|---------------|----------------|----------------|----------------|----------------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | (MHz) 5755 | (dBm) 19.28 | (dBm) 19.28 | (dBm) 30.00 | (dB) -10.72 |

8.31.6. POWER SPECTRAL DENSITY

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

RESULTS

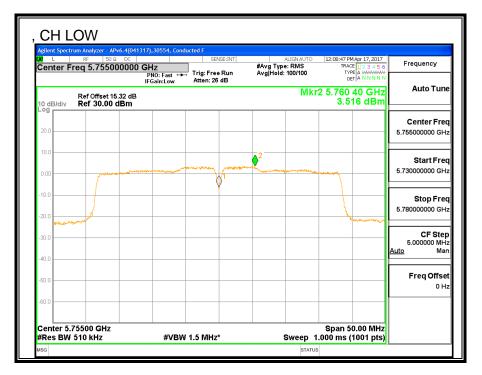
Antenna Gain and Limits

| Channel | Frequency | Directional | PSD |
|---------|-----------|-------------|-------|
| | | Gain | Limit |
| | (MHz) | (dBi) | (dBm) |
| Low | 5755 | -1.61 | 30.00 |
| High | 5795 | -1.61 | 30.00 |

| Duty Cycle CF (dB) | 0.10 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

PSD Results

| Channel | Frequency | UAT 2 | Total | PSD | PSD |
|---------|-----------|-------|--------|-------|--------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | 5755 | 3.516 | 3.616 | 30.00 | -26.38 |
| 2011 | 0,00 | 0.010 | 0.0.0 | 00.00 | _0.00 |





8.32. 11n HT40 LAT 3 SISO MODE IN THE 5.8GHz BAND

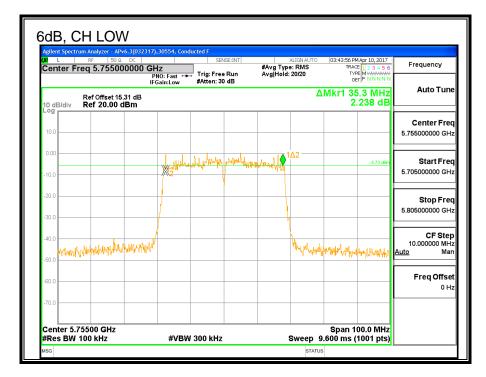
8.32.1. 6 dB BANDWIDTH

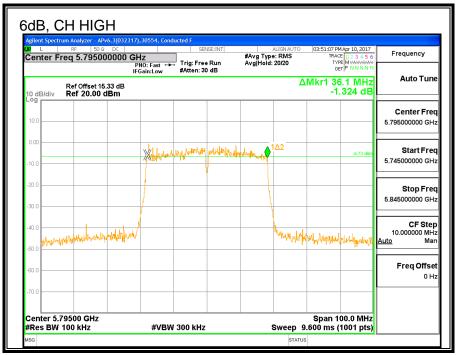
LIMITS

FCC §15.407 (e)

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

| Channel | Frequency | 6 dB BW LAT 3 (MHz) | Minimum Limit (MHz) |
|---------|-----------|---------------------------|------------------------|
| Low | 5755 | 35.30 | 0.5 |
| High | 5795 | 36.10 | 0.5 |



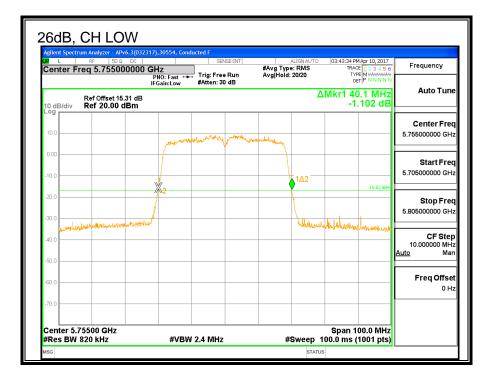


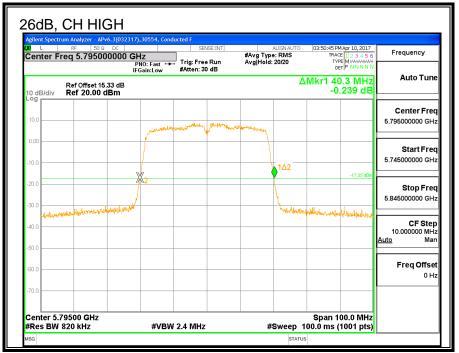
8.32.2. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

| Channel | Frequency | 26 dB BW LAT 3 (MHz) |
|---------|-----------|----------------------------|
| Low | 5755 | 40.1 |
| High | 5795 | 40.3 |



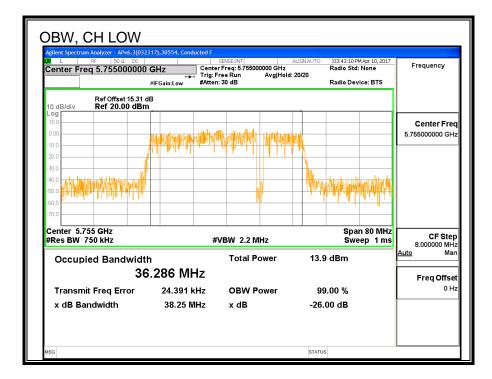


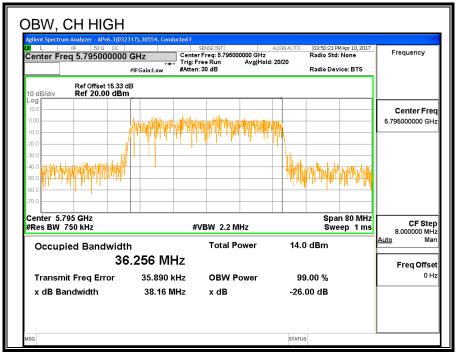
8.32.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

| Channel | Frequency | 99% BW LAT 3 (MHz) |
|---------|-----------|--------------------------|
| Low | 5755 | 36.286 |
| High | 5795 | 36.256 |





8.32.4. AVERAGE POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

| Channel | Frequency | Power LAT 3 (dBm) |
|---------|-----------|----------------------|
| Low | 5755 | 19.47 |
| High | 5795 | 19.33 |

8.32.5. OUTPUT POWER

| ID: | 30554 | Date: | 7/13/2017 |
|-----|-------|-------|-----------|
|-----|-------|-------|-----------|

LIMITS

FCC §15.407 (a) (3)

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

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.

DIRECTIONAL ANTENNA GAIN

RESULTS

Antenna Gain and Limit

| Channel | Frequency | Directional | Power |
|---------|-----------|-------------|-------|
| | | Gain | Limit |
| | (MHz) | (dBi) | (dBm) |
| Low | 5755 | -0.15 | 30.00 |
| High | 5795 | -0.15 | 30.00 |

Output Power Results

| Channel | Frequency | LAT 3 | Total | Power | Power |
|---------|---------------|----------------|----------------|----------------|-------------------------|
| | | Meas | Corr'd | Limit | Margin |
| | | Power | Power | | |
| | | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | (MHz) 5755 | (dBm) 19.47 | (dBm) 19.47 | (dBm) 30.00 | (dB) -10.53 |

8.32.6. POWER SPECTRAL DENSITY

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

RESULTS

Antenna Gain and Limits

| Channel | Frequency | Directional | PSD |
|---------|-----------|-------------|-------|
| | | Gain | Limit |
| | (MHz) | (dBi) | (dBm) |
| Low | 5755 | -0.15 | 30.00 |
| High | 5795 | -0.15 | 30.00 |

| Duty Cycle CF (dB) | 0.10 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

PSD Results

| Channel | Frequency | LAT 3 | Total | PSD | PSD |
|---------|---------------|----------------|----------------|----------------|----------------|
| | | Meas | Corr'd | Limit | Margin |
| | | PSD | PSD | | |
| | | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dB) |
| Low | (MHz) 5755 | (dBm) 3.477 | (dBm) 3.577 | (dBm) 30.00 | (dB) -26.42 |

