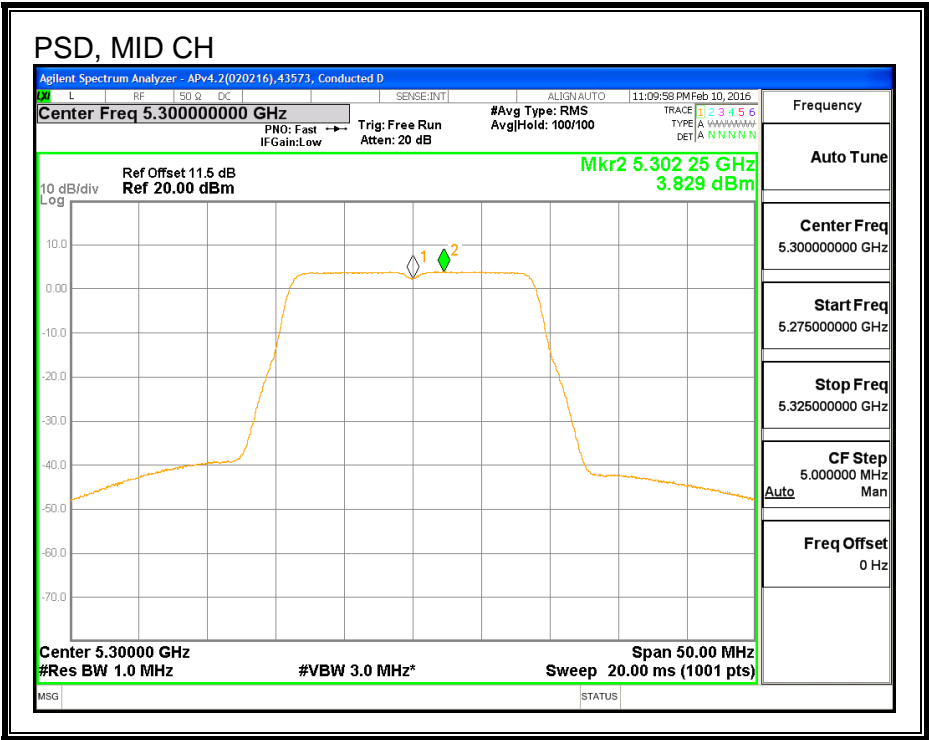
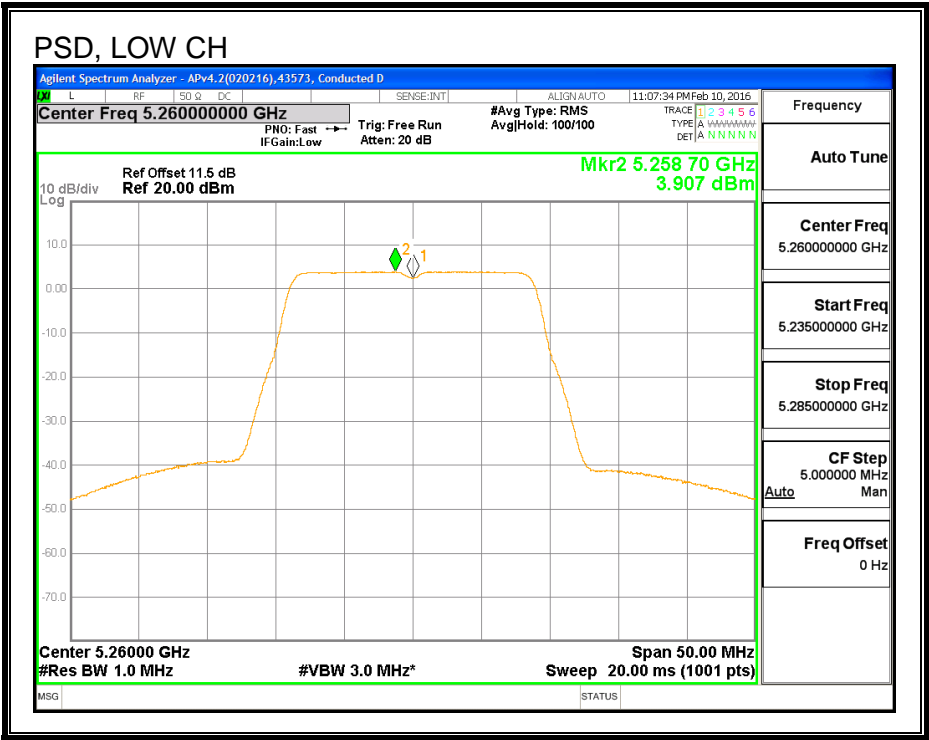
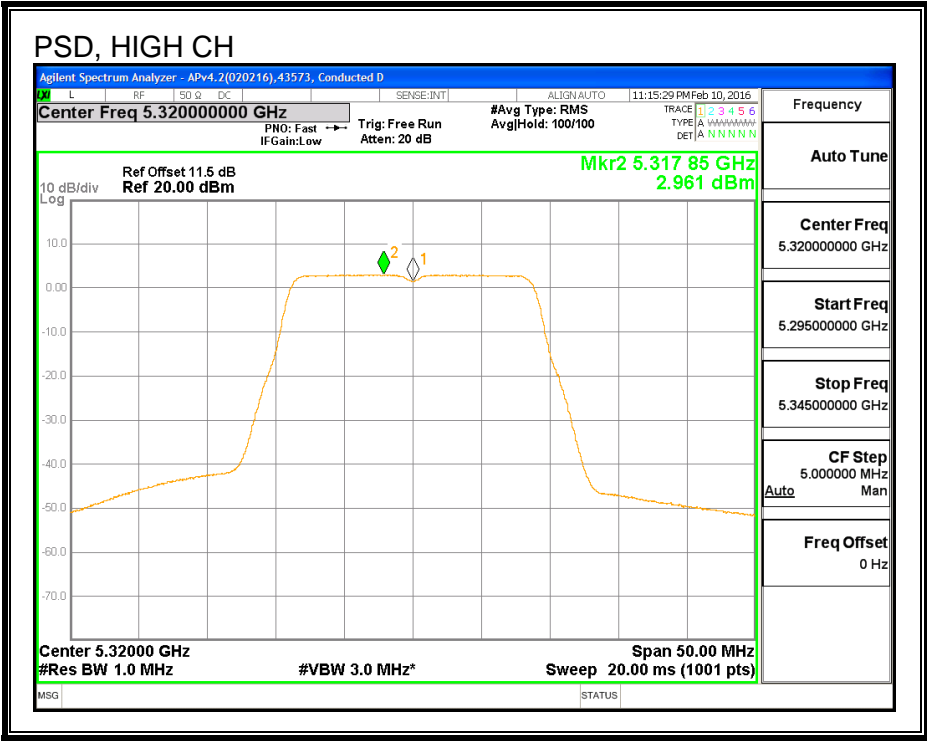
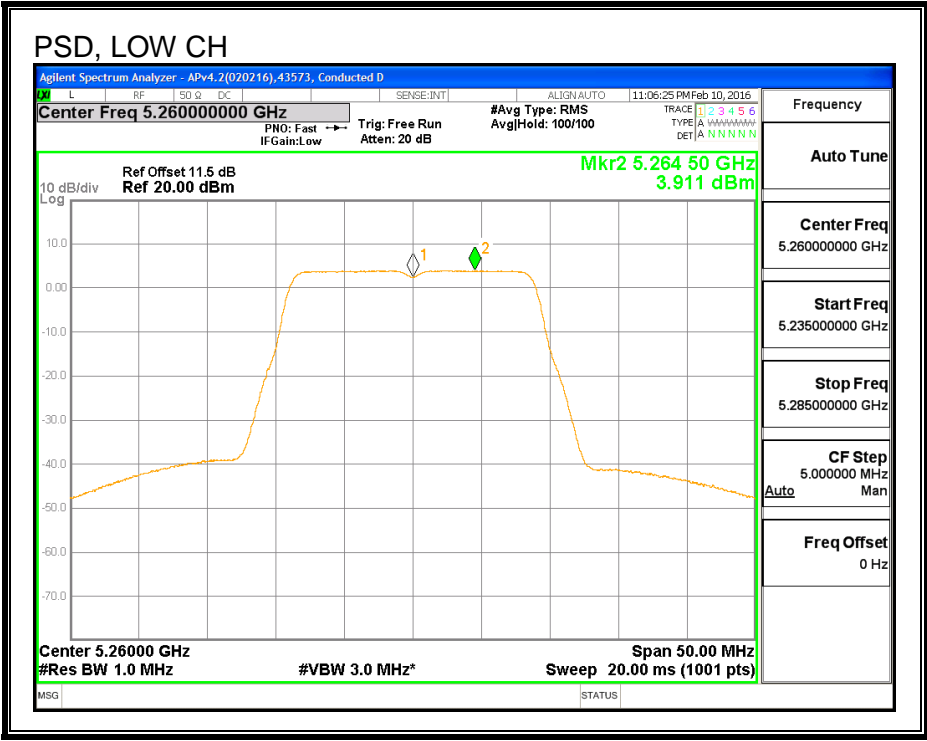


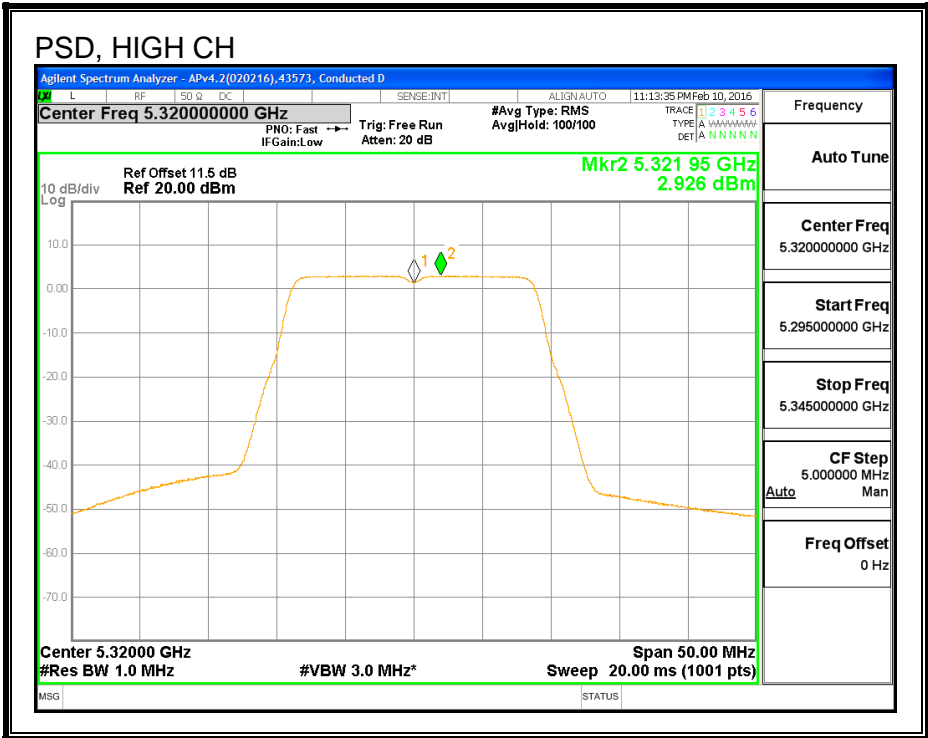
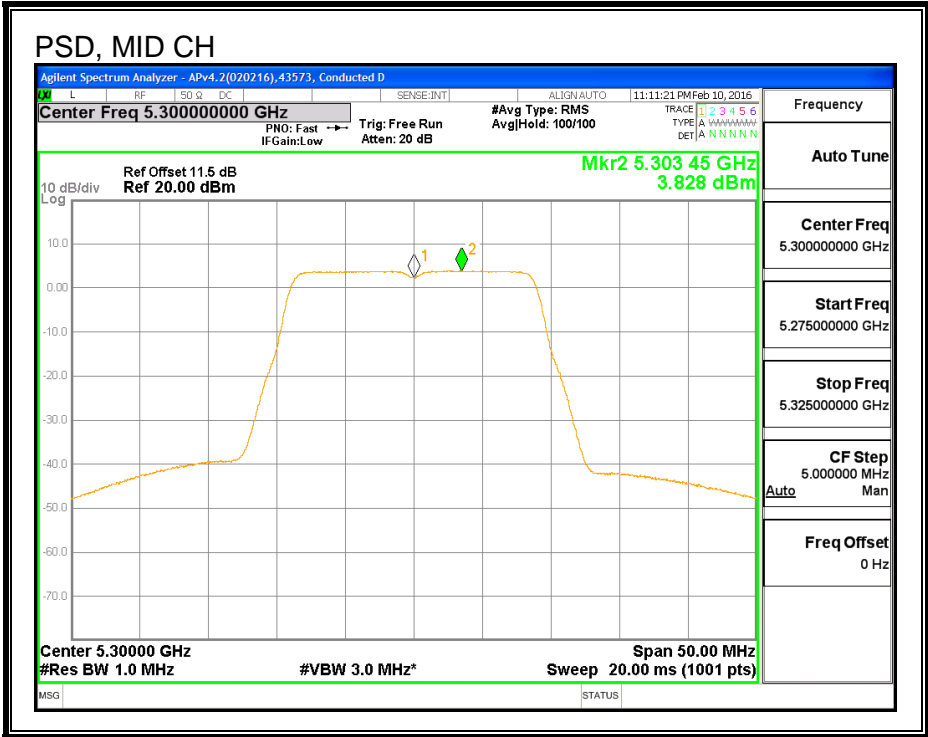
PSD, CHAIN 0





PSD, CHAIN 1





8.19. 802.11n HT20 2Tx STBC MODE IN THE 5.3 GHz BAND

8.19.1. 26 dB BANDWIDTH

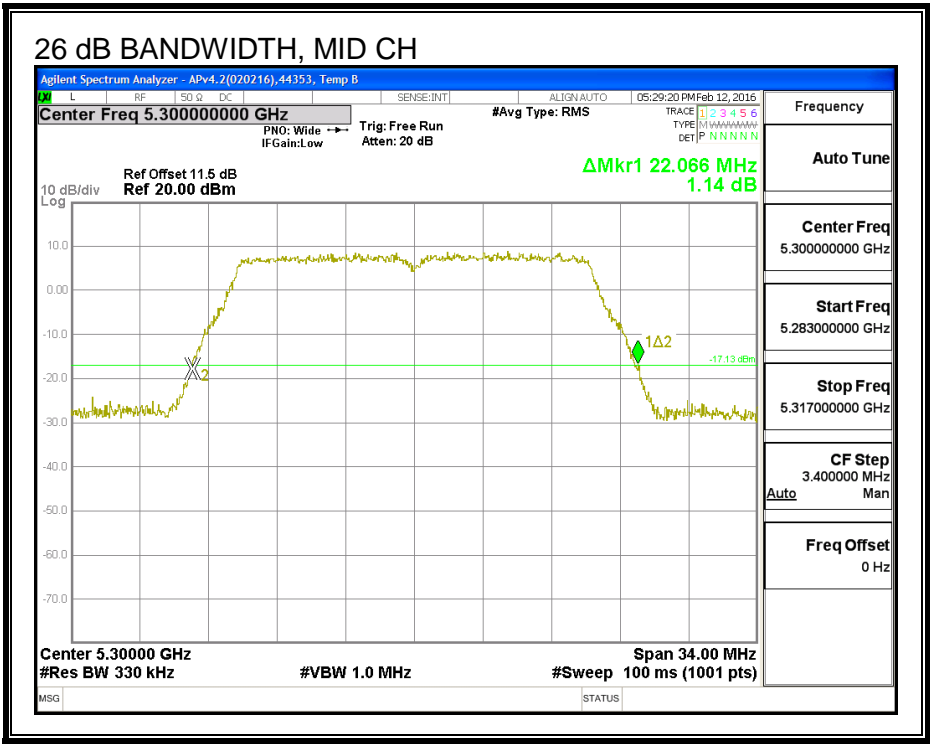
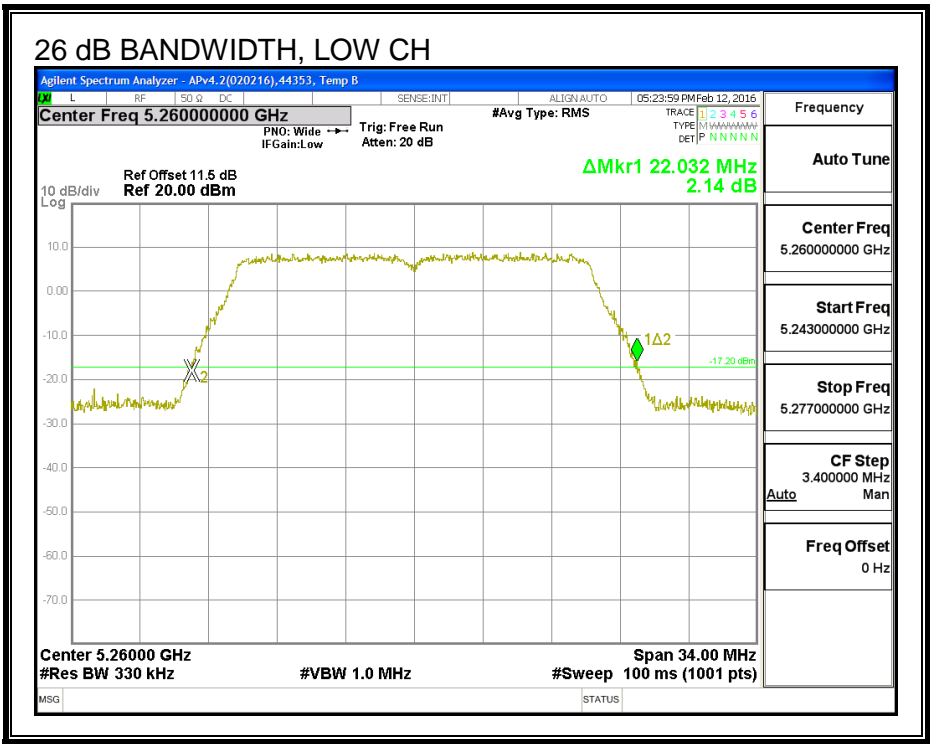
LIMITS

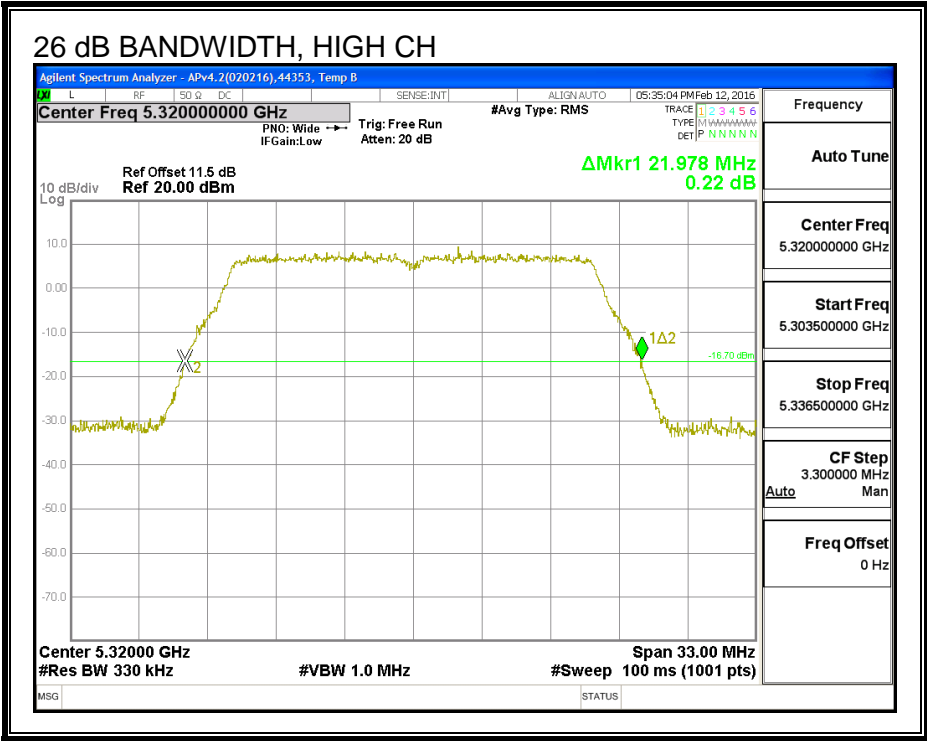
None; for reporting purposes only.

RESULTS

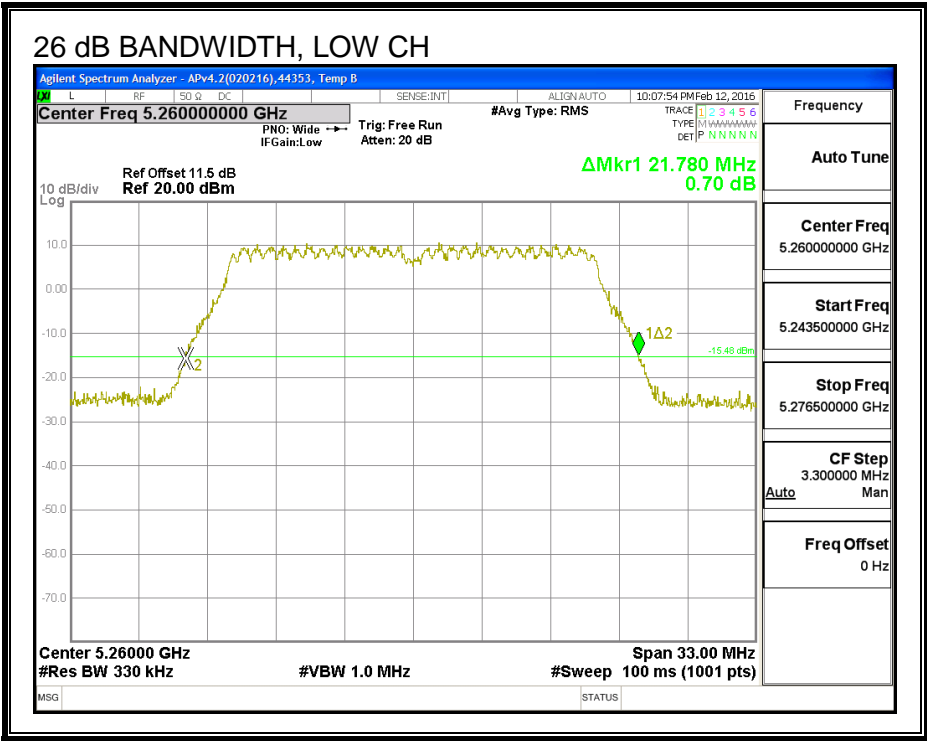
| Channel | Frequency (MHz) | 26 dB BW Chain 0 (MHz) | 26 dB BW Chain 1 (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Low | 5260 | 22.03 | 21.78 |
| Mid | 5300 | 22.07 | 21.95 |
| High | 5320 | 21.98 | 21.88 |

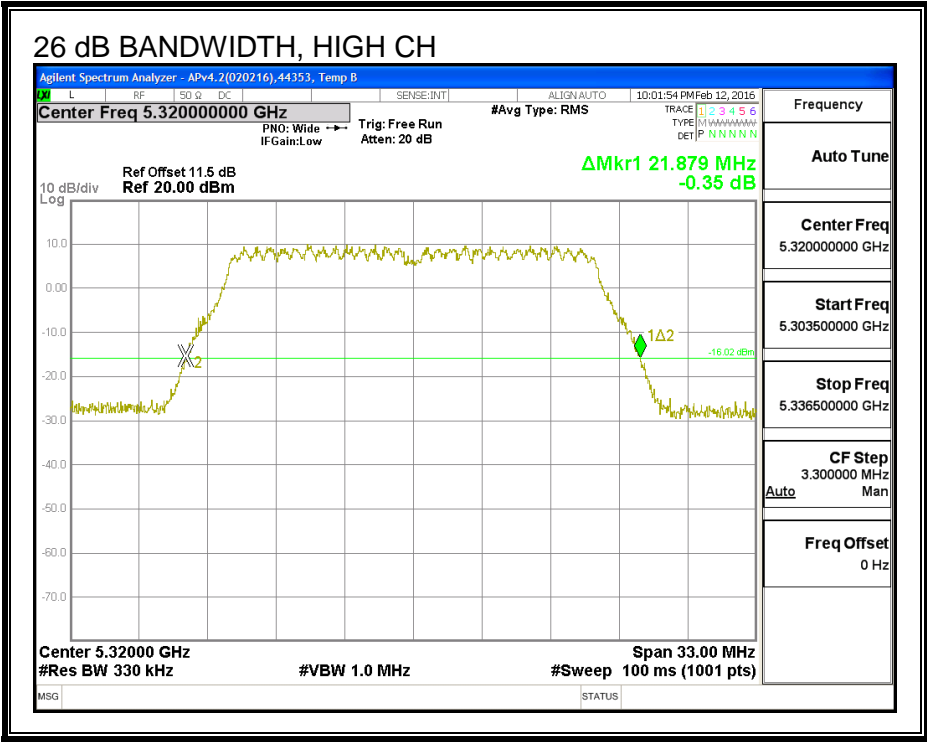
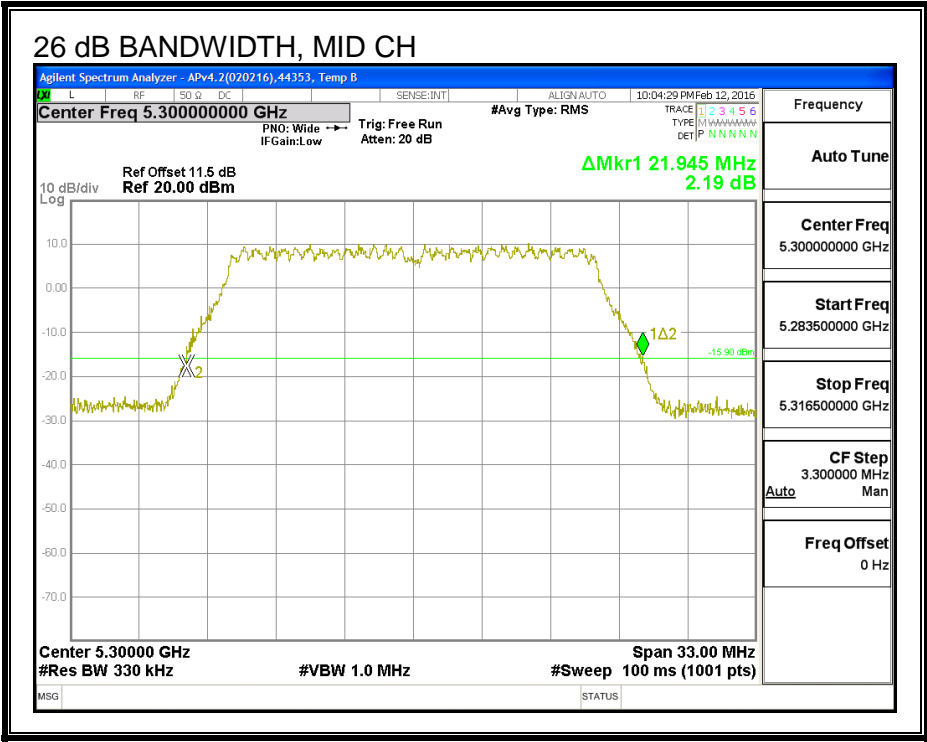
26 DB BANDWIDTH, CHAIN 0





26 DB BANDWIDTH, CHAIN 1





8.19.2. 99% BANDWIDTH

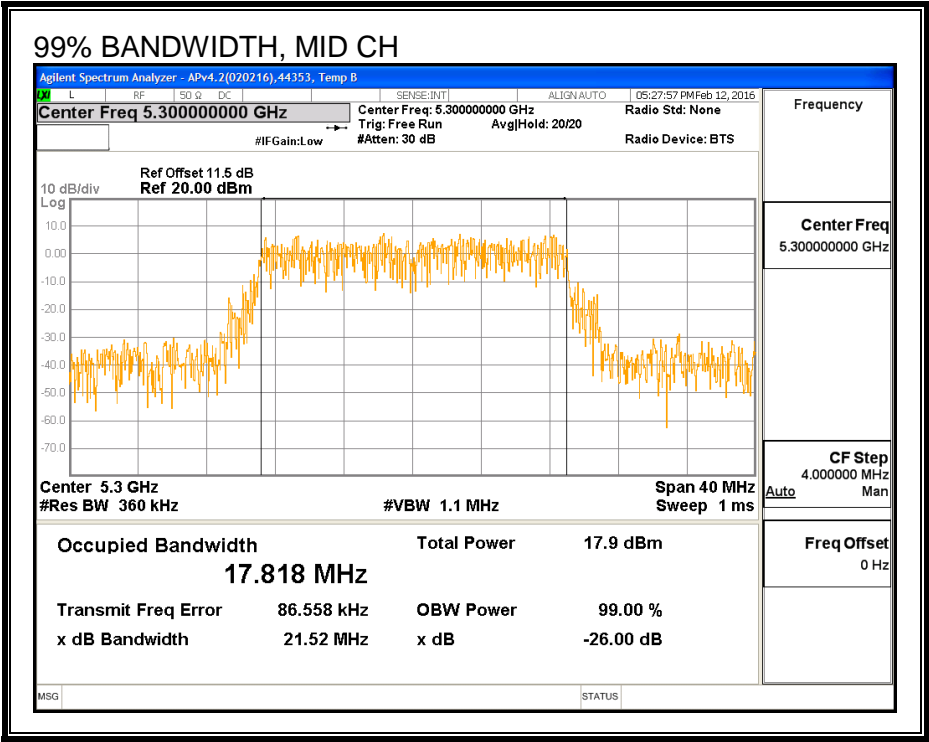
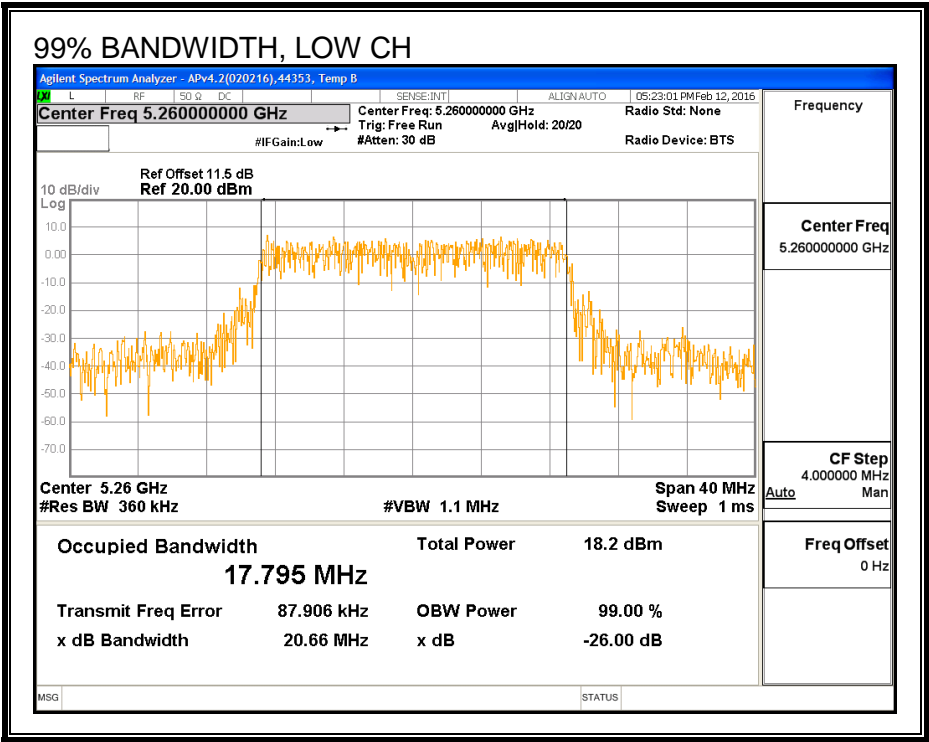
LIMITS

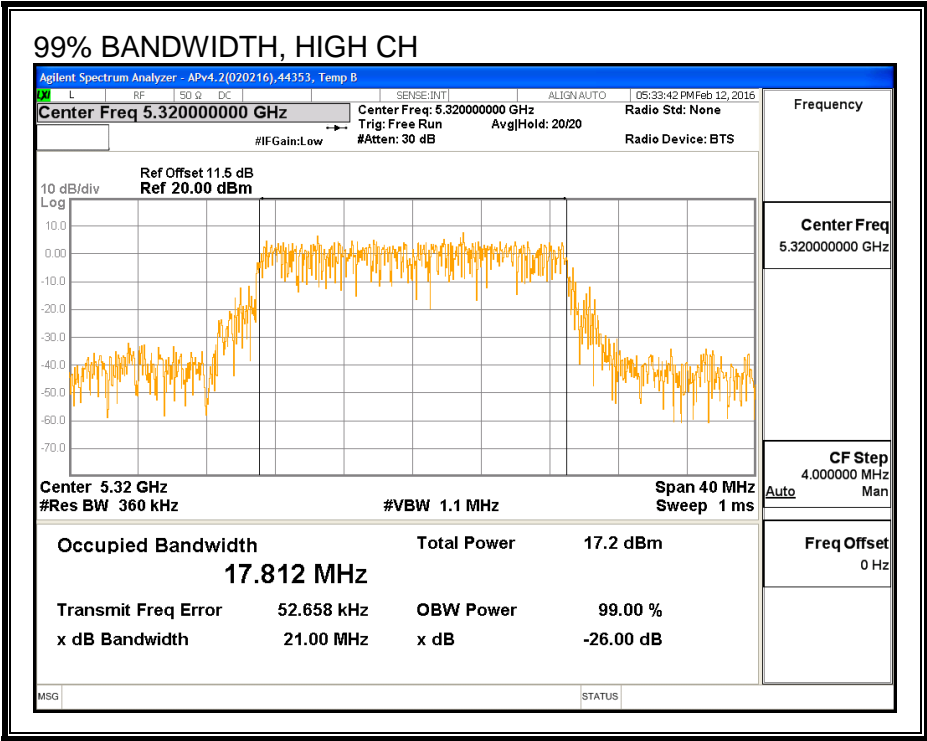
None; for reporting purposes only.

RESULTS

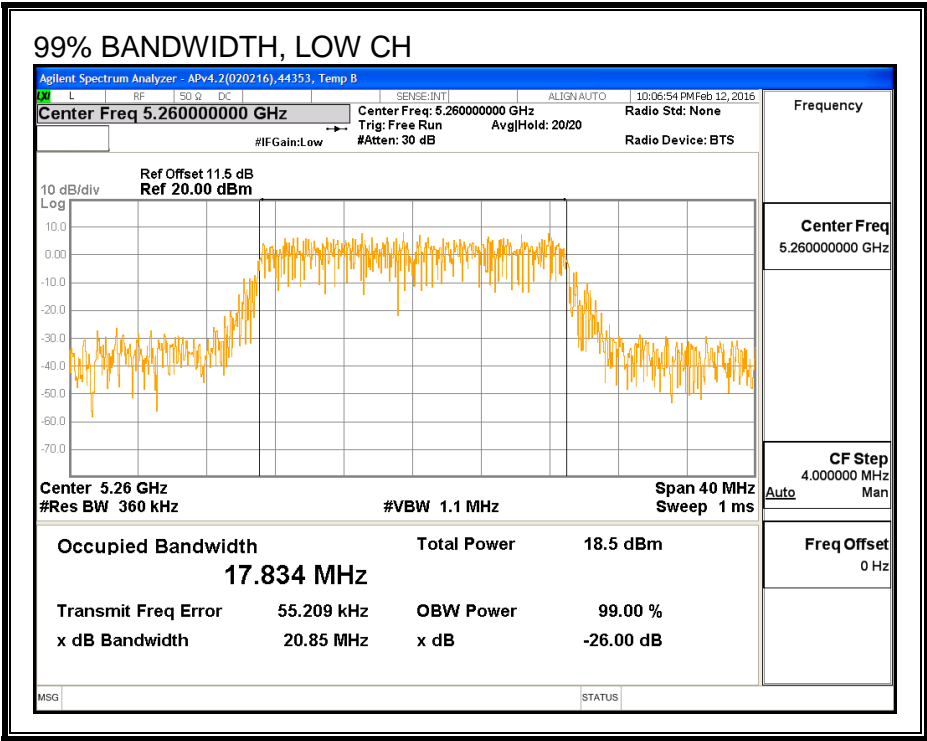
| Channel | Frequency (MHz) | 99% BW Chain 0 (MHz) | 99% BW Chain 1 (MHz) |
|---------|--------------------|----------------------------|----------------------------|
| Low | 5260 | 17.795 | 17.834 |
| Mid | 5300 | 17.818 | 17.856 |
| High | 5320 | 17.812 | 17.823 |

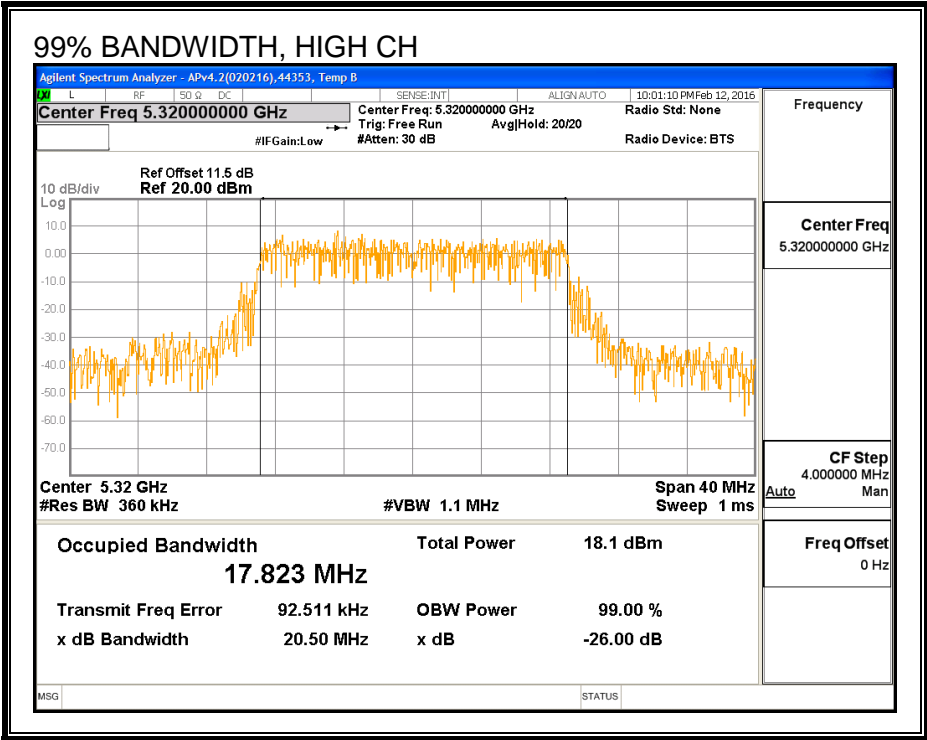
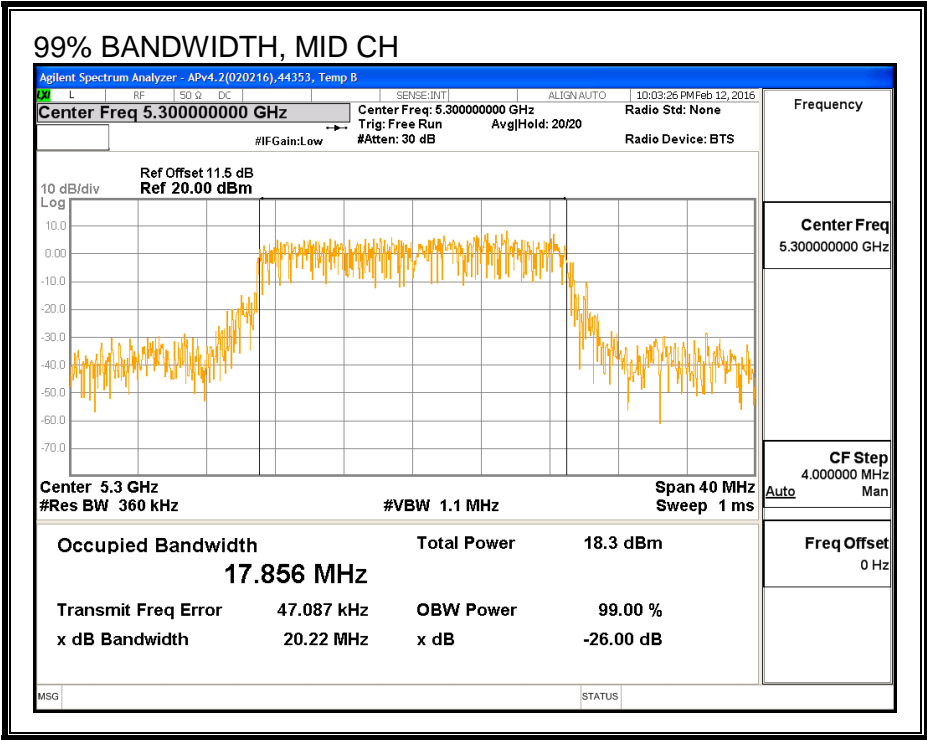
99% BANDWIDTH, CHAIN 0





99% BANDWIDTH, CHAIN 1





8.19.3. 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 (MHz) | Chain 0 Power (dBm) | Chain 1 Power (dBm) | Total Power (dBm) |
|---------|--------------------|---------------------------|---------------------------|-------------------------|
| Low | 5260 | 16.98 | 16.96 | 19.98 |
| Mid | 5300 | 16.82 | 16.97 | 19.90 |
| High | 5320 | 14.95 | 14.97 | 17.97 |

8.19.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

DIRECTIONAL ANTENNA GAIN

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

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.05 | 3.33 | 3.19 |

RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|---|---|-------------------------|-----------------------|
| Low | 5260 | 21.78 | 17.795 | 3.19 | 3.19 | 23.50 | 11.00 |
| Mid | 5300 | 21.95 | 17.818 | 3.19 | 3.19 | 23.51 | 11.00 |
| High | 5320 | 21.88 | 17.812 | 3.19 | 3.19 | 23.51 | 11.00 |

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

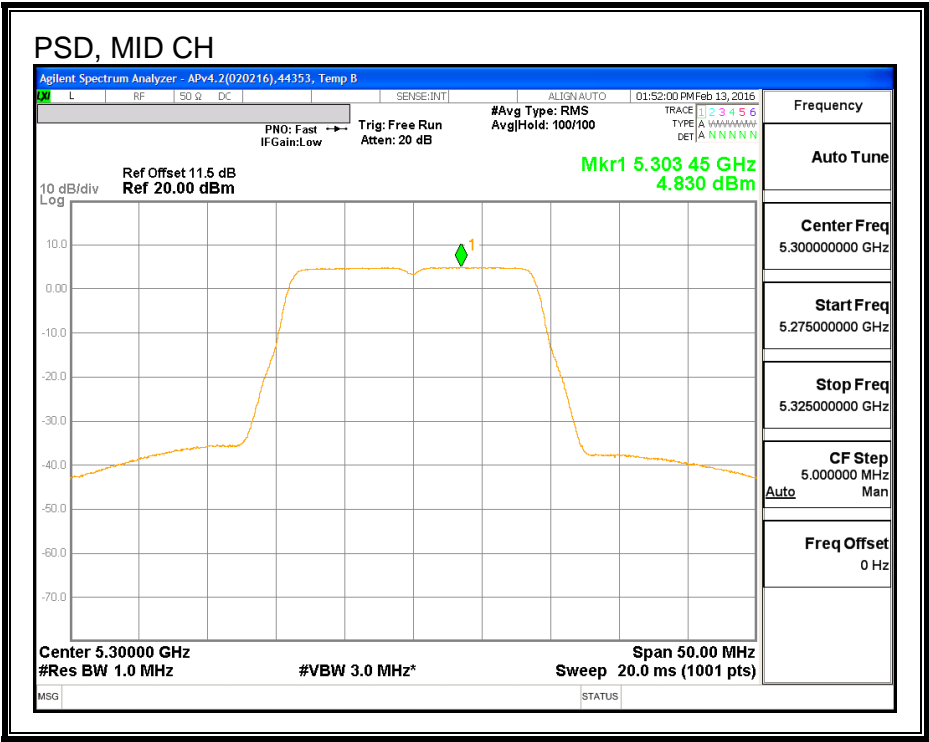
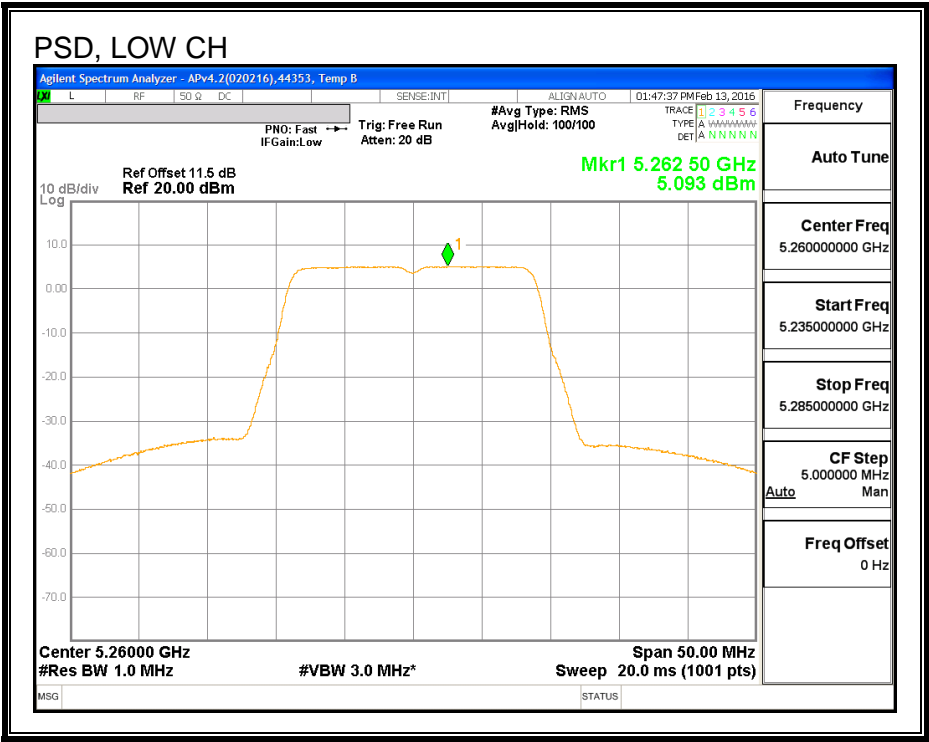
Output Power Results

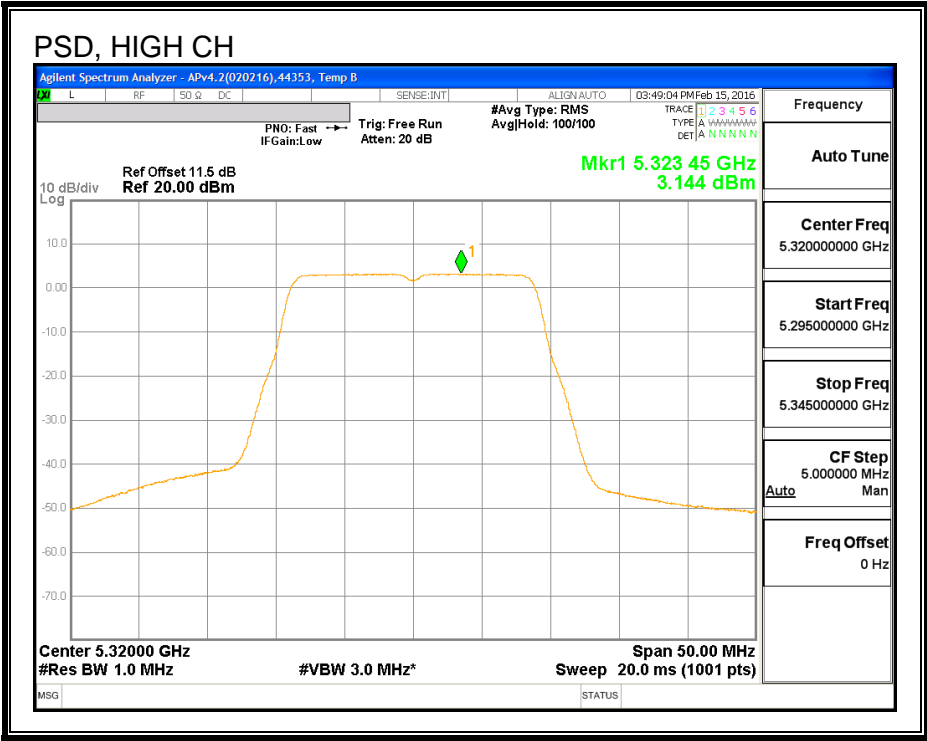
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5260 | 16.98 | 16.96 | 19.98 | 23.50 | -3.52 |
| Mid | 5300 | 16.82 | 16.97 | 19.90 | 23.51 | -3.60 |
| High | 5320 | 14.95 | 14.97 | 17.97 | 23.51 | -5.54 |

PSD Results

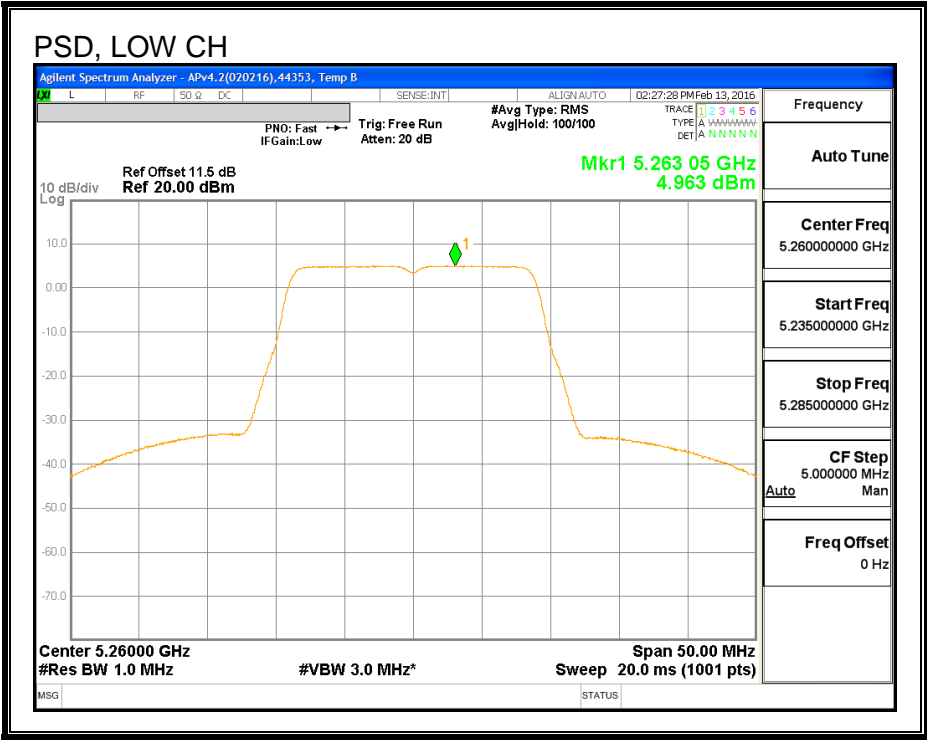
| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5260 | 5.09 | 4.96 | 8.04 | 11.00 | -2.96 |
| Mid | 5300 | 4.83 | 4.97 | 7.91 | 11.00 | -3.09 |
| High | 5320 | 3.14 | 3.25 | 6.21 | 11.00 | -4.79 |

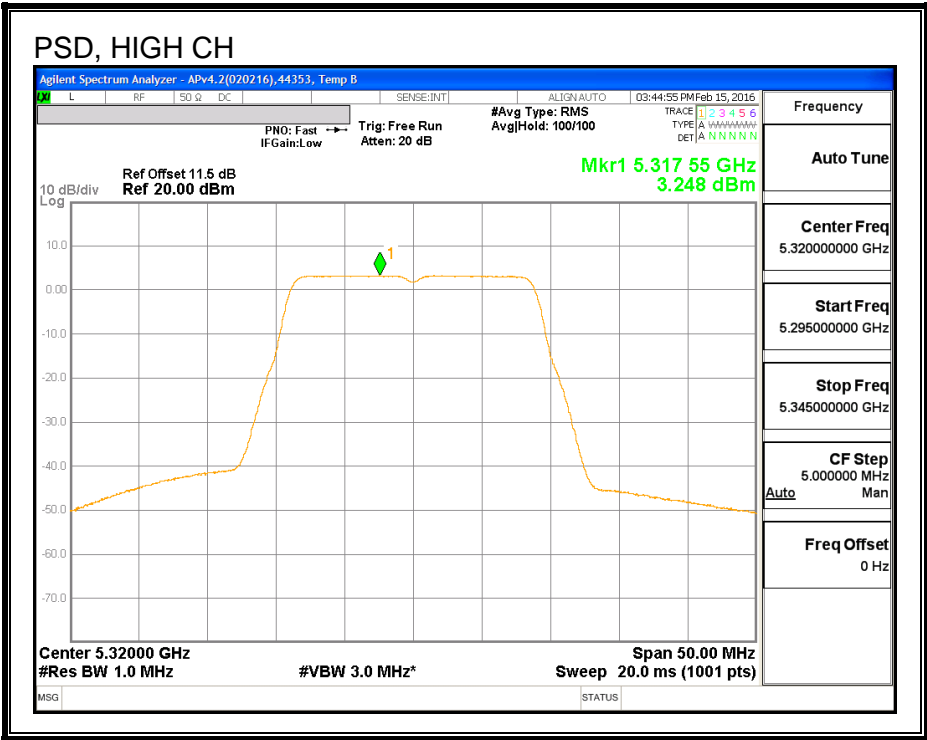
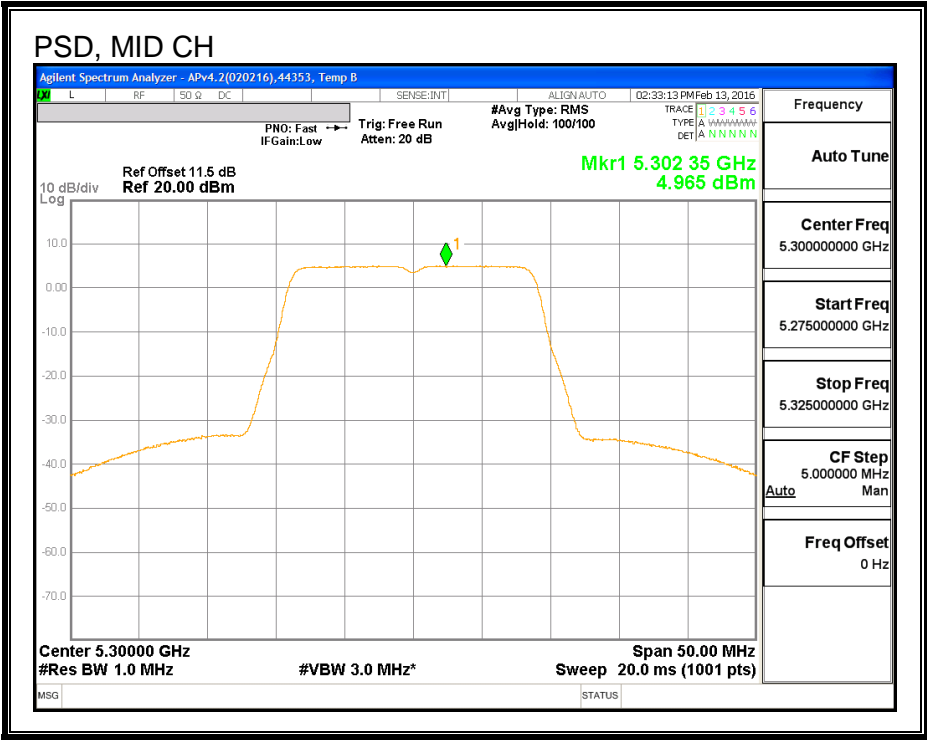
PSD, CHAIN 0





PSD, CHAIN 1





8.20. 802.11an VHT20 2Tx BEAM FORMING MODE IN THE 5.3 GHz BAND

8.20.1. 26 dB BANDWIDTH

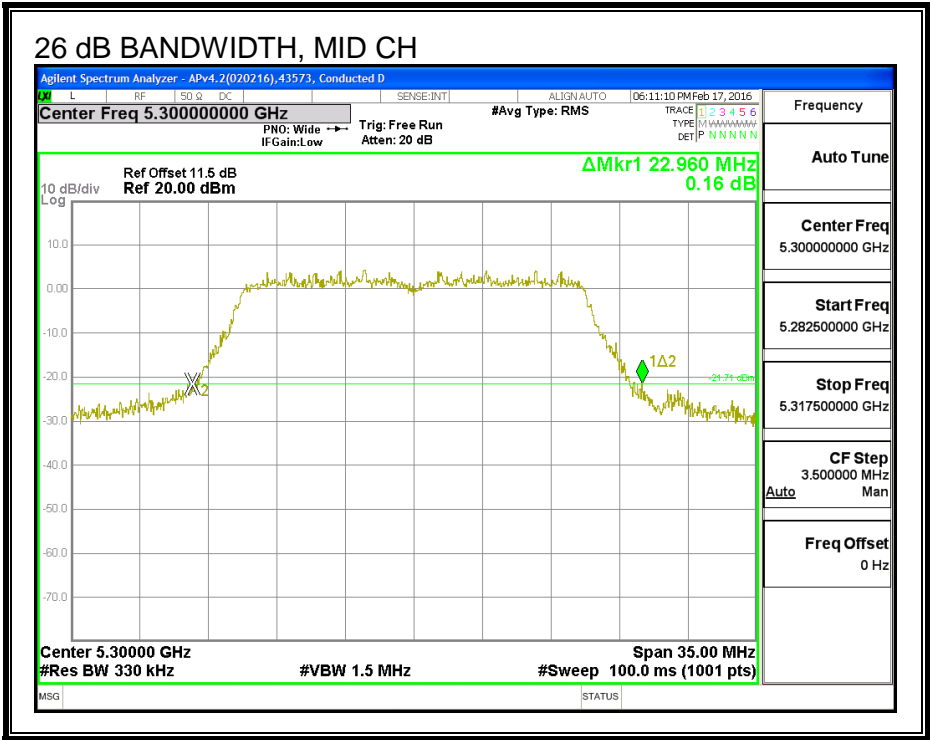
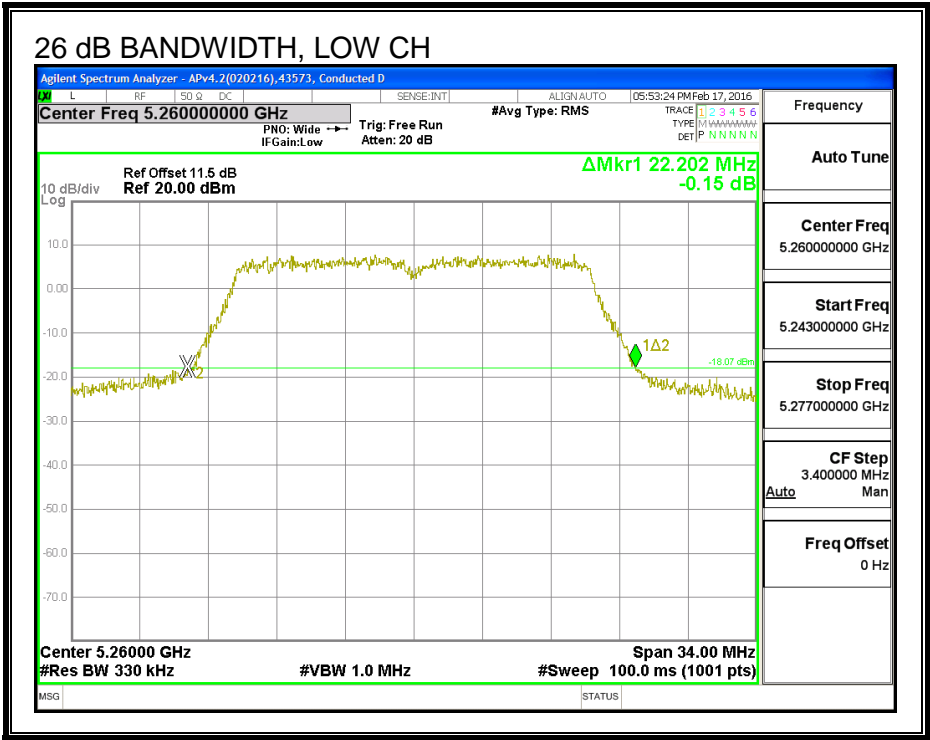
LIMITS

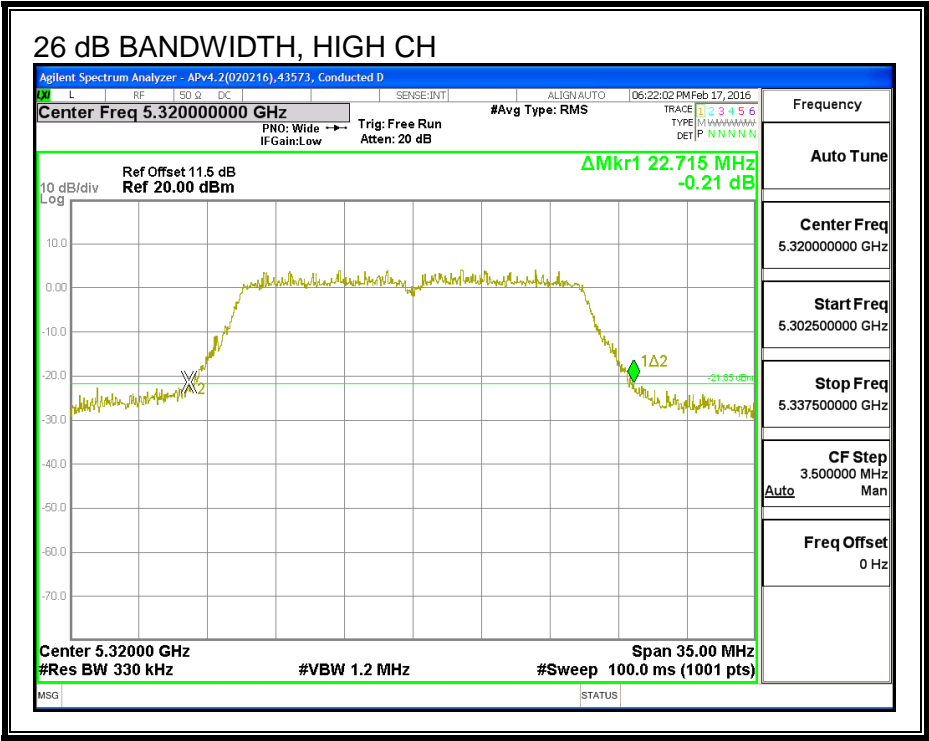
None; for reporting purposes only.

RESULTS

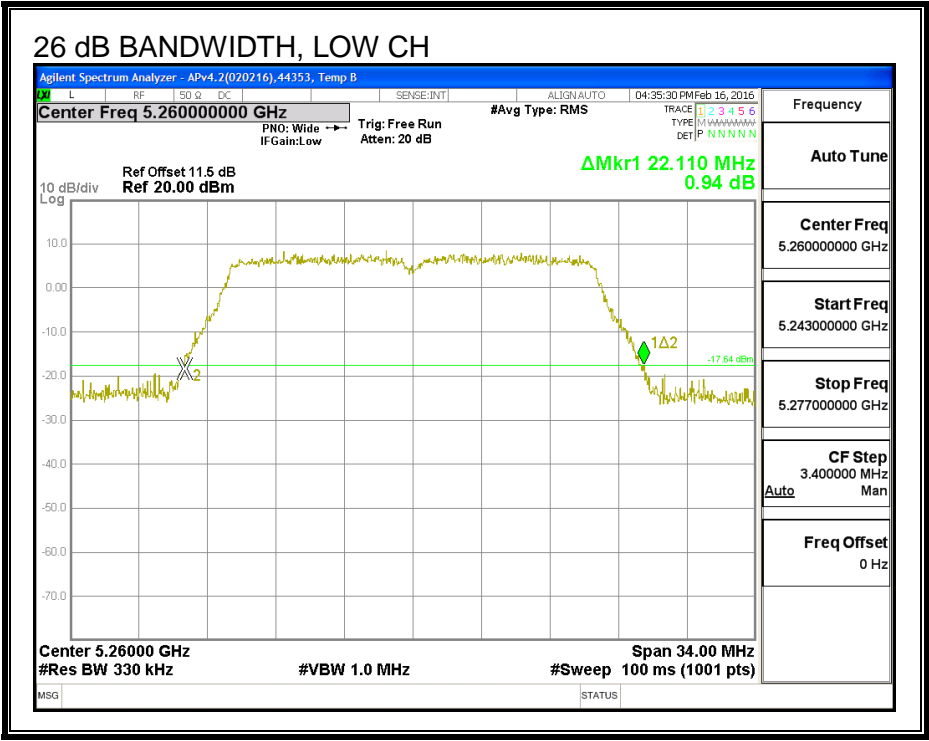
| Channel | Frequency (MHz) | 26 dB BW Chain 0 (MHz) | 26 dB BW Chain 1 (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Low | 5260 | 22.02 | 22.11 |
| Mid | 5300 | 22.96 | 21.98 |
| High | 5320 | 22.72 | 21.98 |

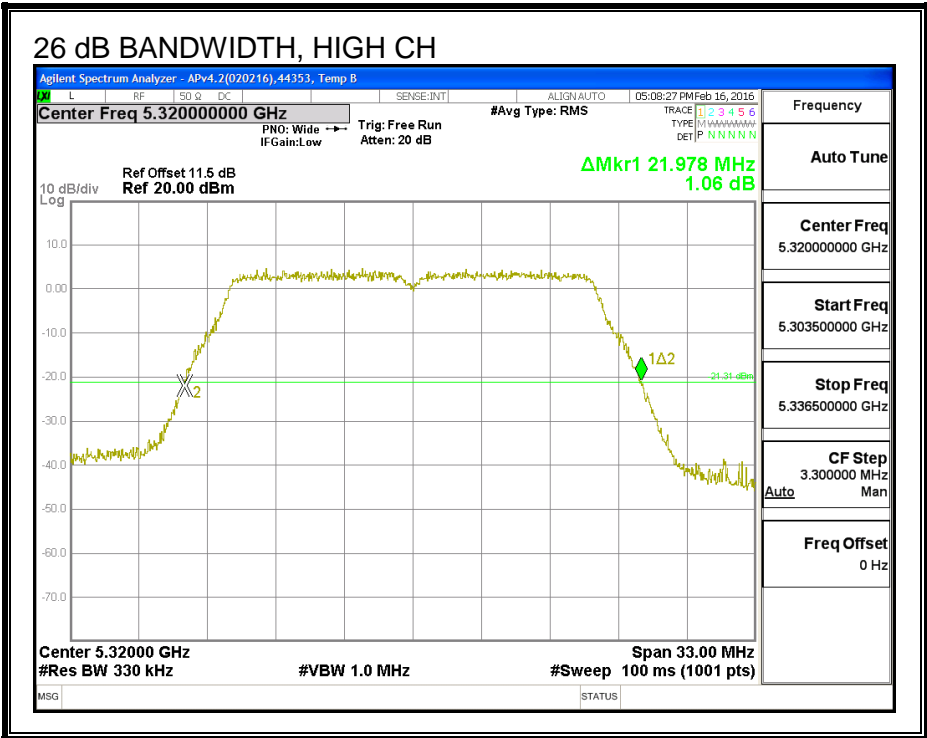
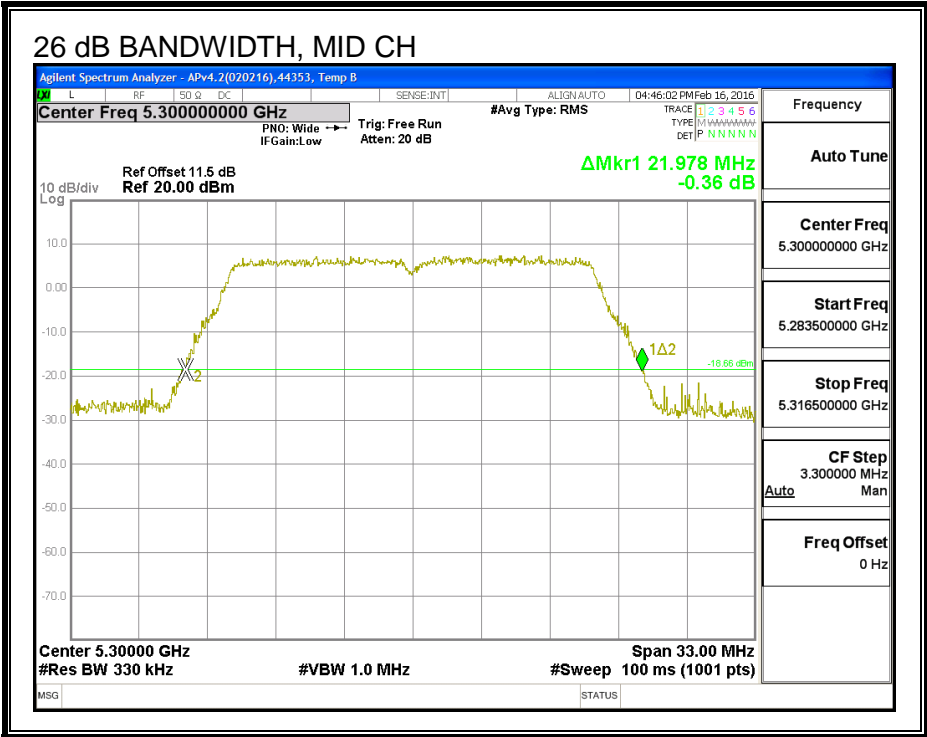
26 DB BANDWIDTH, CHAIN 0





26 DB BANDWIDTH, CHAIN 1





8.20.2. 99% BANDWIDTH

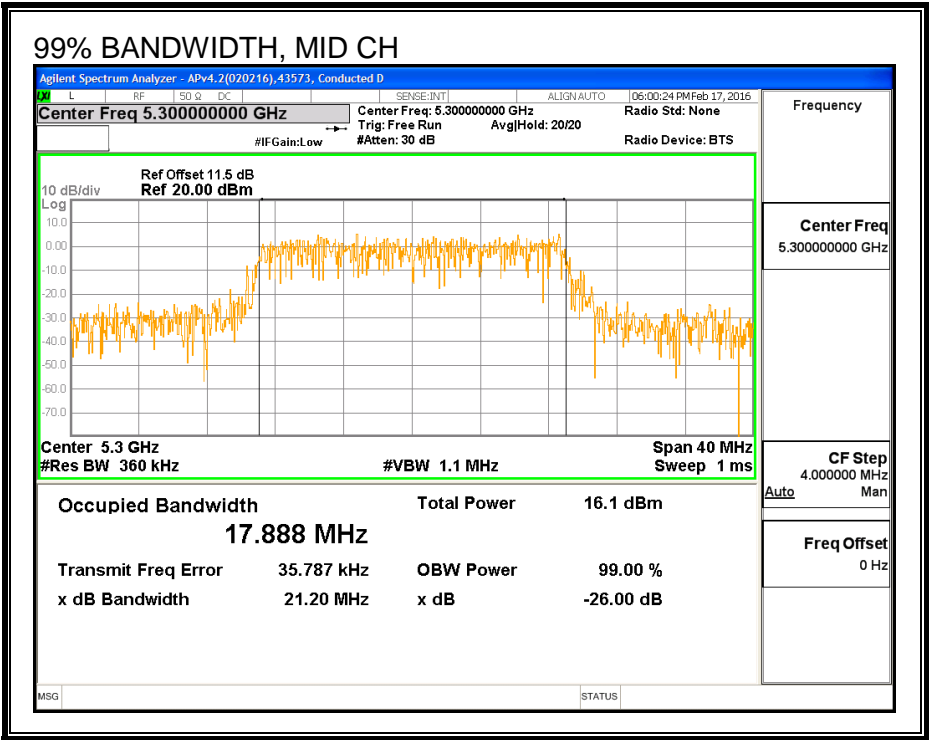
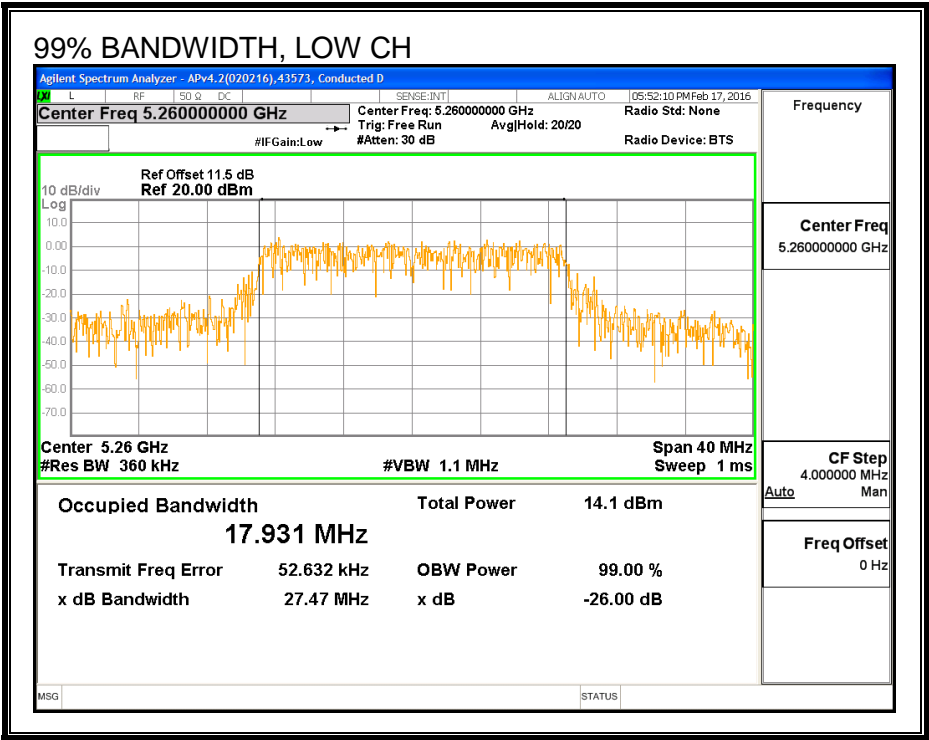
LIMITS

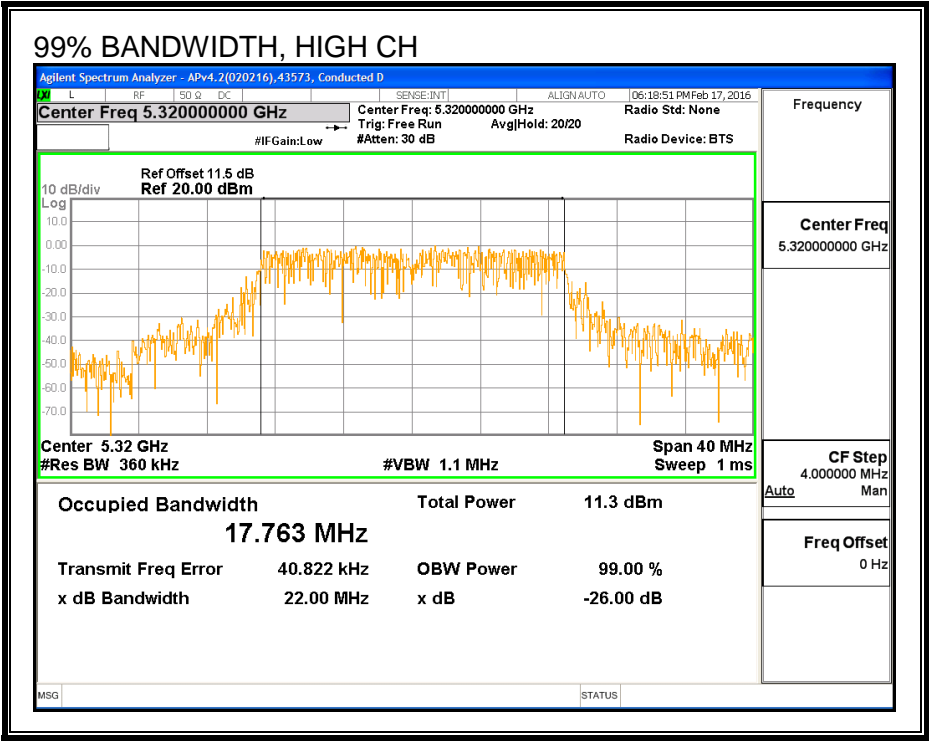
None; for reporting purposes only.

RESULTS

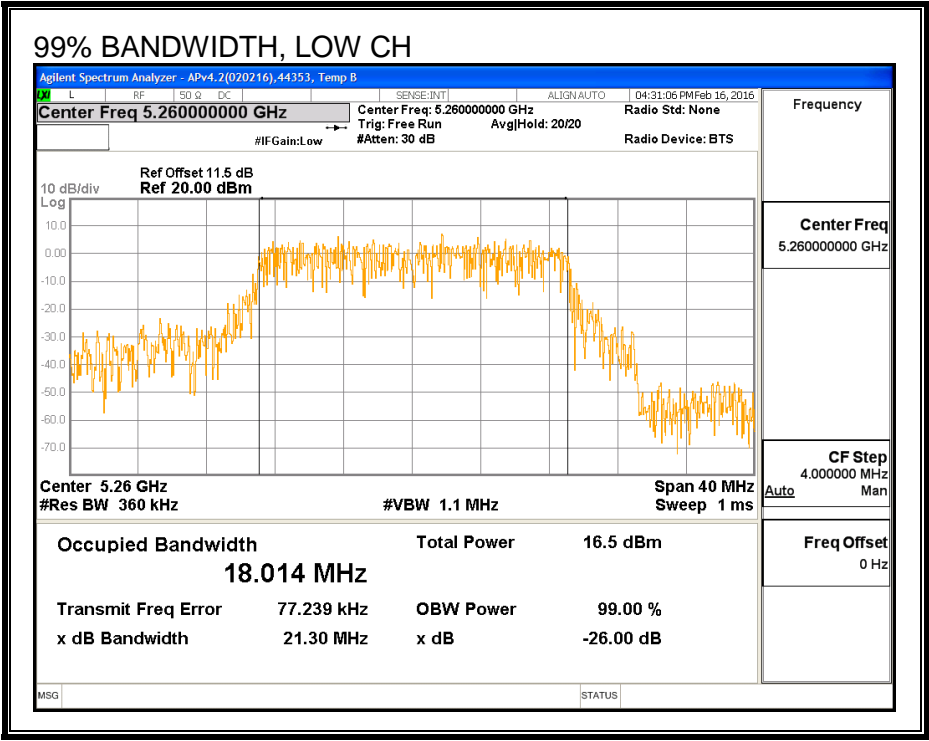
| Channel | Frequency (MHz) | 99% BW Chain 0 (MHz) | 99% BW Chain 1 (MHz) |
|---------|--------------------|----------------------------|----------------------------|
| Low | 5260 | 17.931 | 18.014 |
| Mid | 5300 | 17.888 | 17.758 |
| High | 5320 | 17.763 | 17.883 |

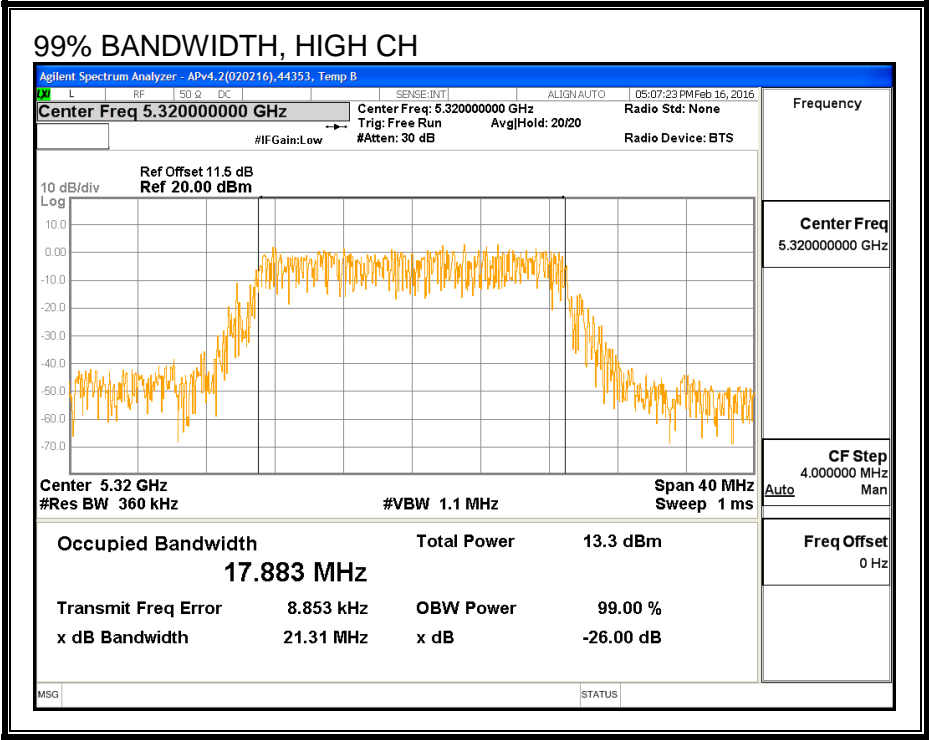
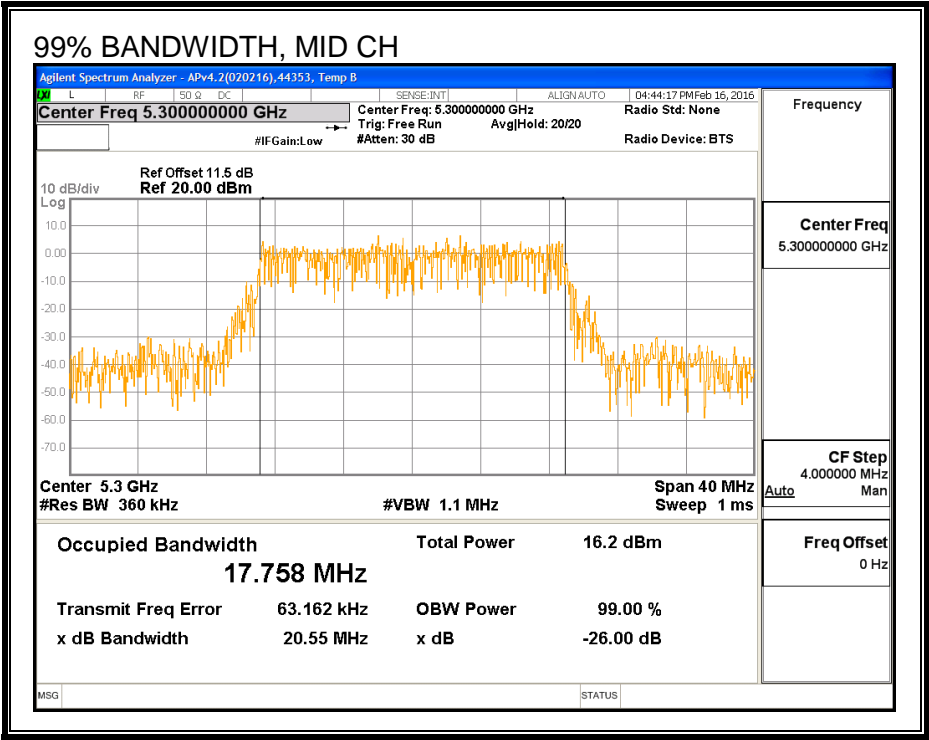
99% BANDWIDTH, CHAIN 0





99% BANDWIDTH, CHAIN 1





8.20.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

| Channel | Frequency (MHz) | Chain 0 Power (dBm) | Chain 1 Power (dBm) | Total Power (dBm) |
|---------|--------------------|---------------------------|---------------------------|-------------------------|
| Low | 5260 | 15.91 | 15.94 | 18.94 |
| Mid | 5300 | 15.88 | 15.90 | 18.90 |
| High | 5320 | 13.90 | 13.97 | 16.95 |

8.20.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

DIRECTIONAL ANTENNA GAIN

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

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.05 | 3.33 | 6.20 |

RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|---|---|-------------------------|-----------------------|
| Low | 5260 | 22.11 | 18.014 | 6.20 | 6.20 | 23.36 | 10.80 |
| Mid | 5300 | 22.96 | 17.888 | 6.20 | 6.20 | 23.33 | 10.80 |
| High | 5320 | 22.72 | 17.883 | 6.20 | 6.20 | 23.32 | 10.80 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.12 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

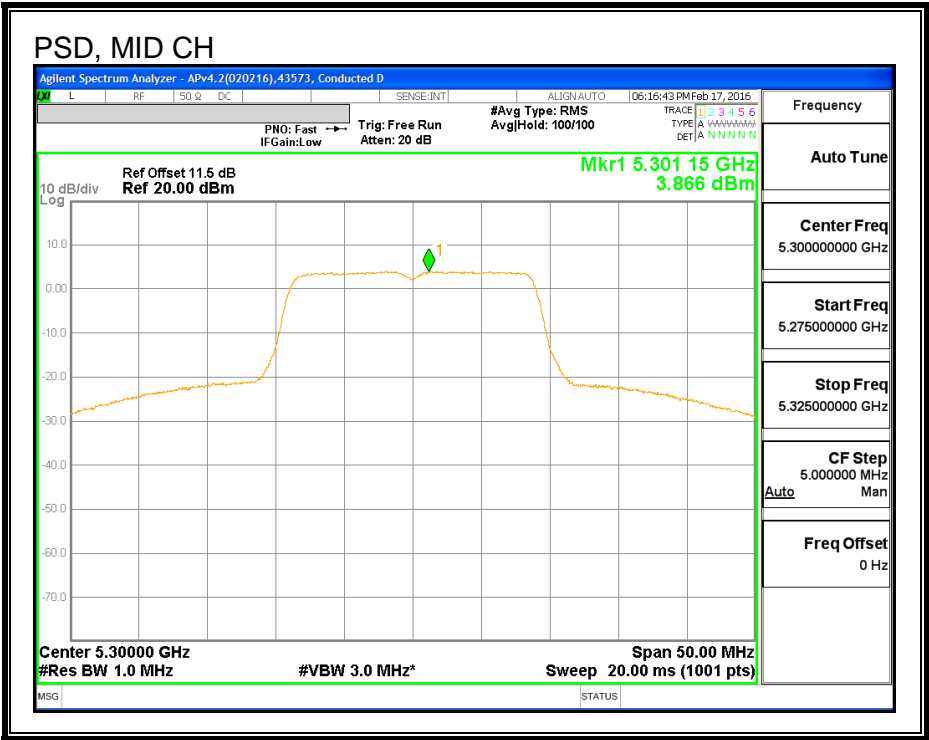
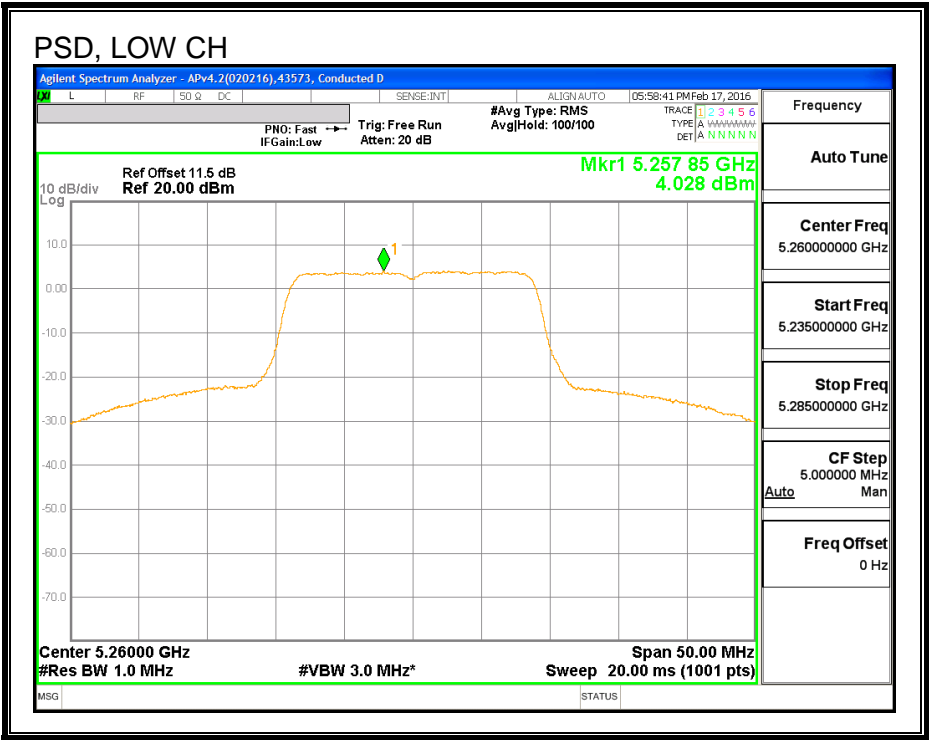
Output Power Results

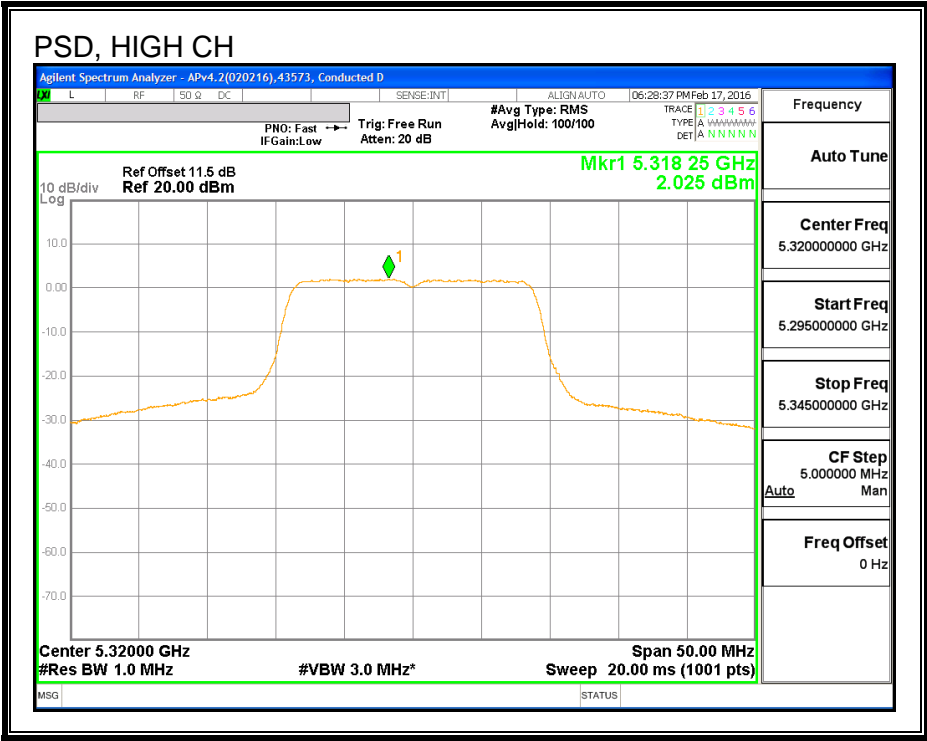
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5260 | 15.91 | 15.94 | 18.94 | 23.36 | -4.42 |
| Mid | 5300 | 15.88 | 15.90 | 18.90 | 23.33 | -4.43 |
| High | 5320 | 13.90 | 13.97 | 16.95 | 23.32 | -6.38 |

PSD Results

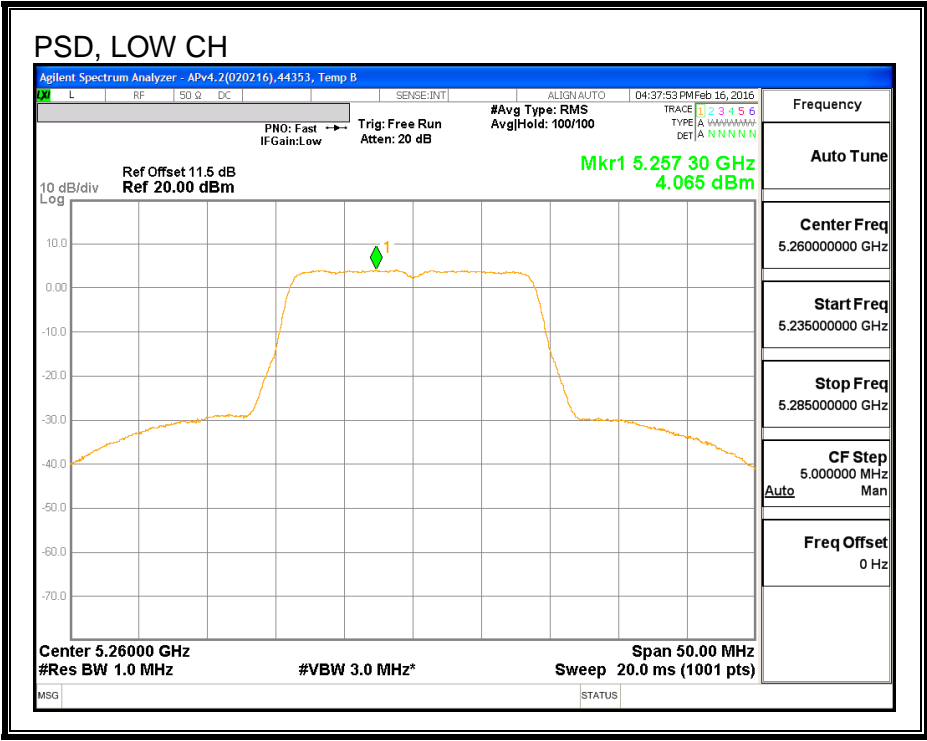
| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5260 | 4.03 | 4.07 | 7.18 | 10.80 | -3.62 |
| Mid | 5300 | 3.87 | 3.91 | 7.02 | 10.80 | -3.78 |
| High | 5320 | 2.03 | 2.20 | 5.24 | 10.80 | -5.56 |

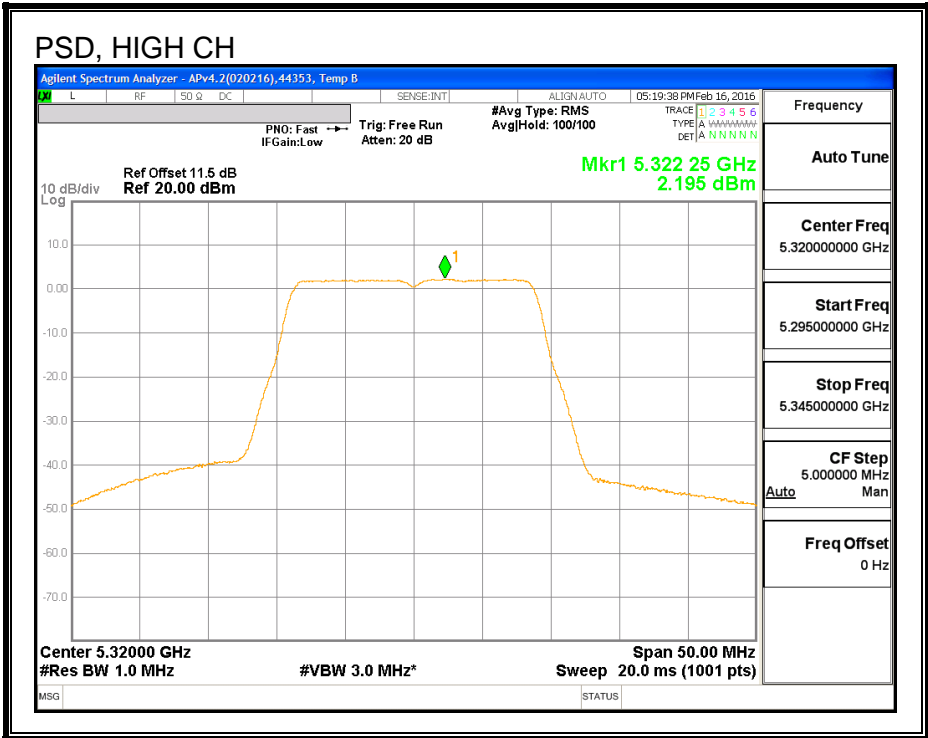
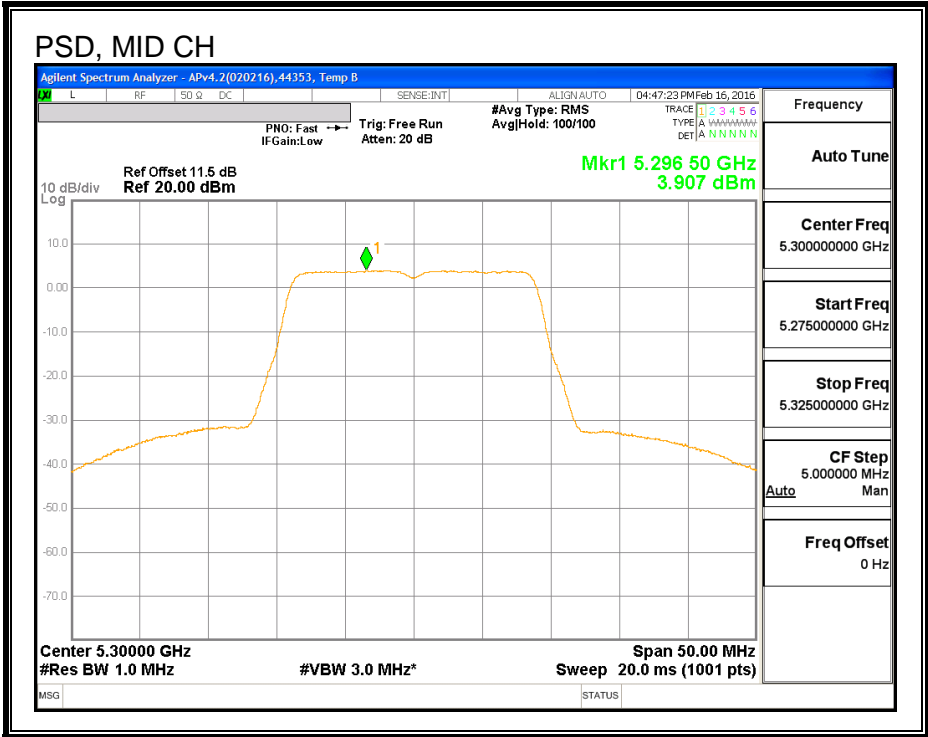
PSD, CHAIN 0





PSD, CHAIN 1





8.21. 802.11n HT40 CHAIN 0 MODE IN THE 5.3 GHz BAND

8.21.1. 26 dB BANDWIDTH

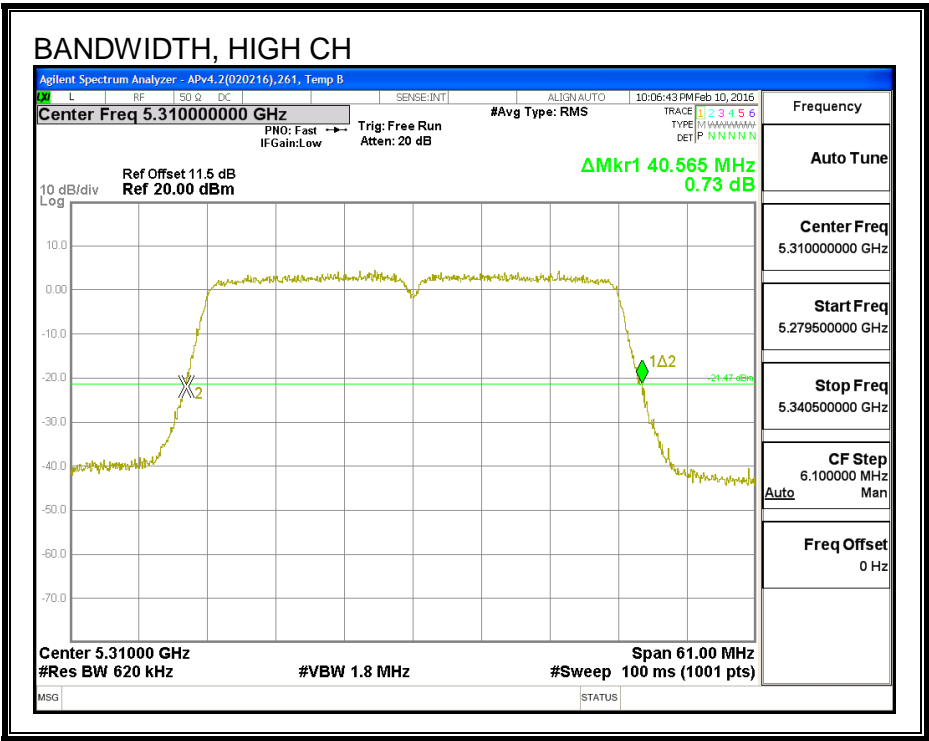
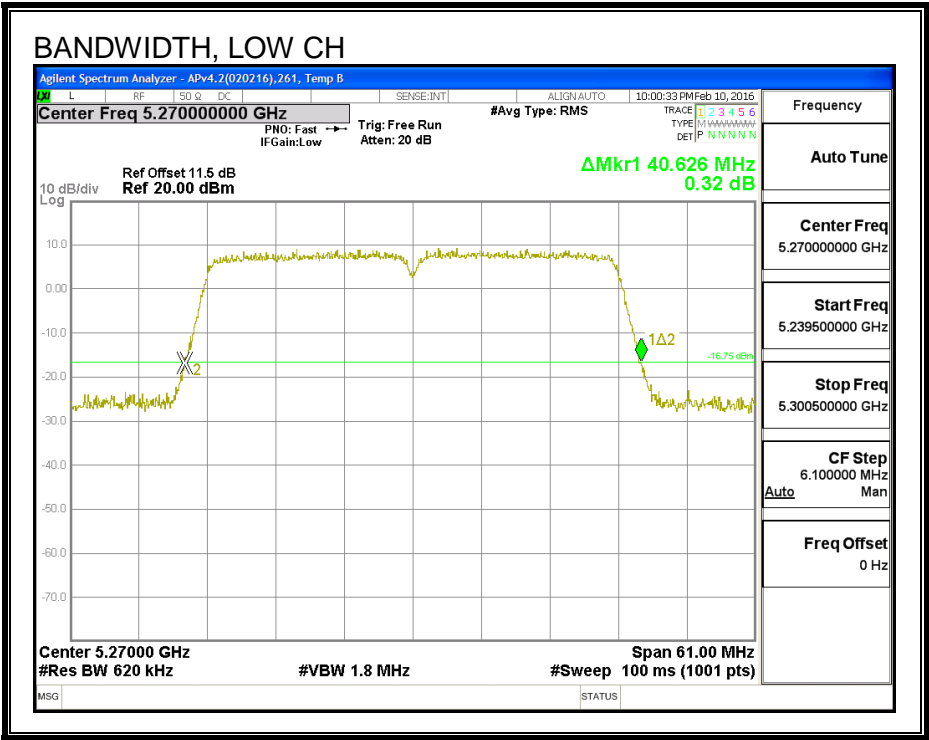
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---------|--------------------|--------------------------|
| Low | 5270 | 40.63 |
| High | 5310 | 40.57 |

26 dB BANDWIDTH



8.21.2. 99% BANDWIDTH

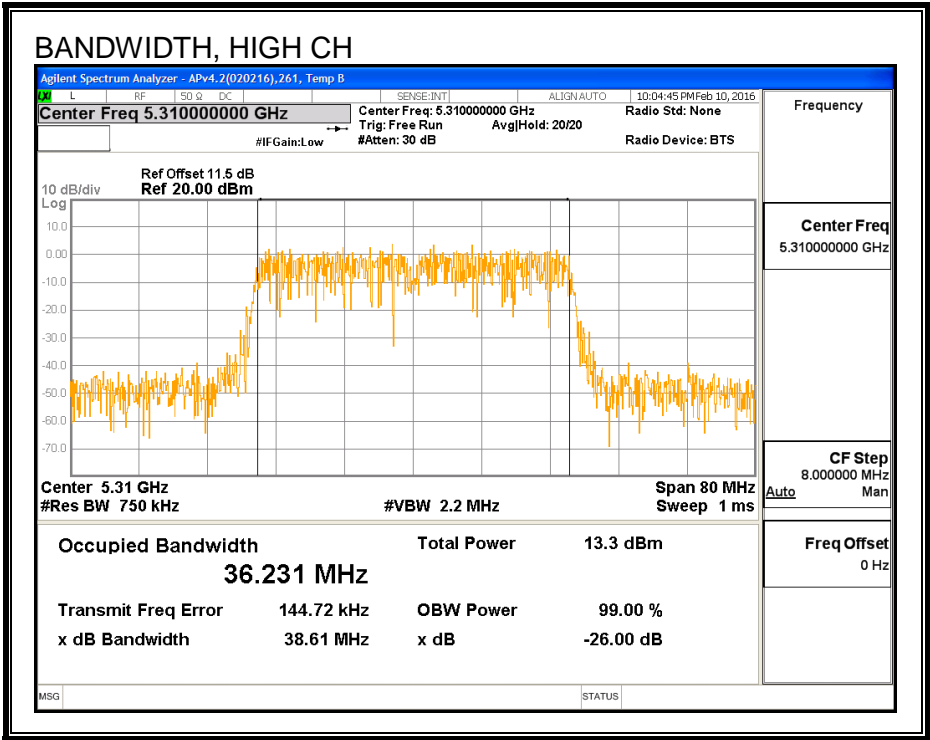
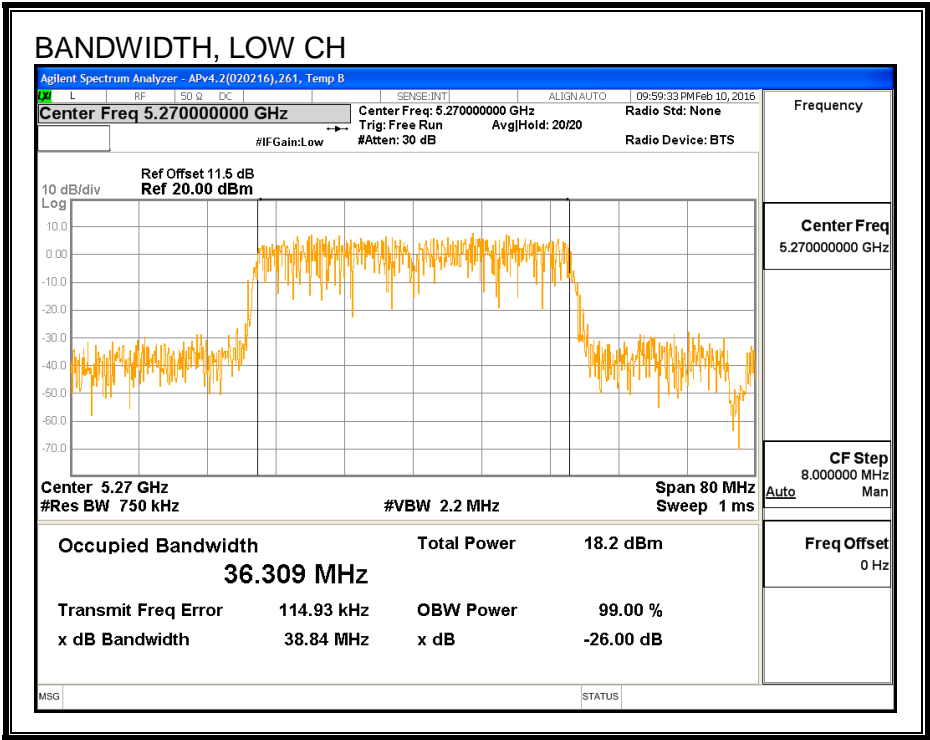
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|--------------------|------------------------|
| Low | 5270 | 36.309 |
| High | 5310 | 36.231 |

99% BANDWIDTH



8.21.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

| Channel | Frequency (MHz) | Power (dBm) |
|---------|--------------------|----------------|
| Low | 5270 | 17.72 |
| High | 5310 | 12.92 |

8.21.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

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 (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|------------------------------|-------------------------|-----------------------|
| Low | 5270 | 40.63 | 36.309 | 3.05 | 24.00 | 11.00 |
| High | 5310 | 40.57 | 36.231 | 3.05 | 24.00 | 11.00 |

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

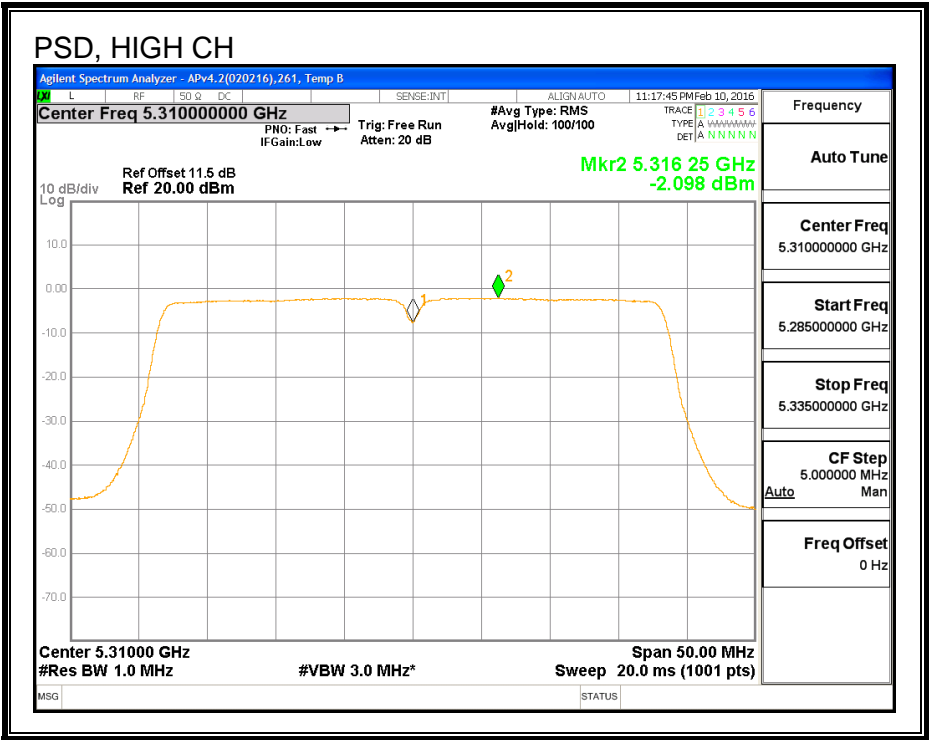
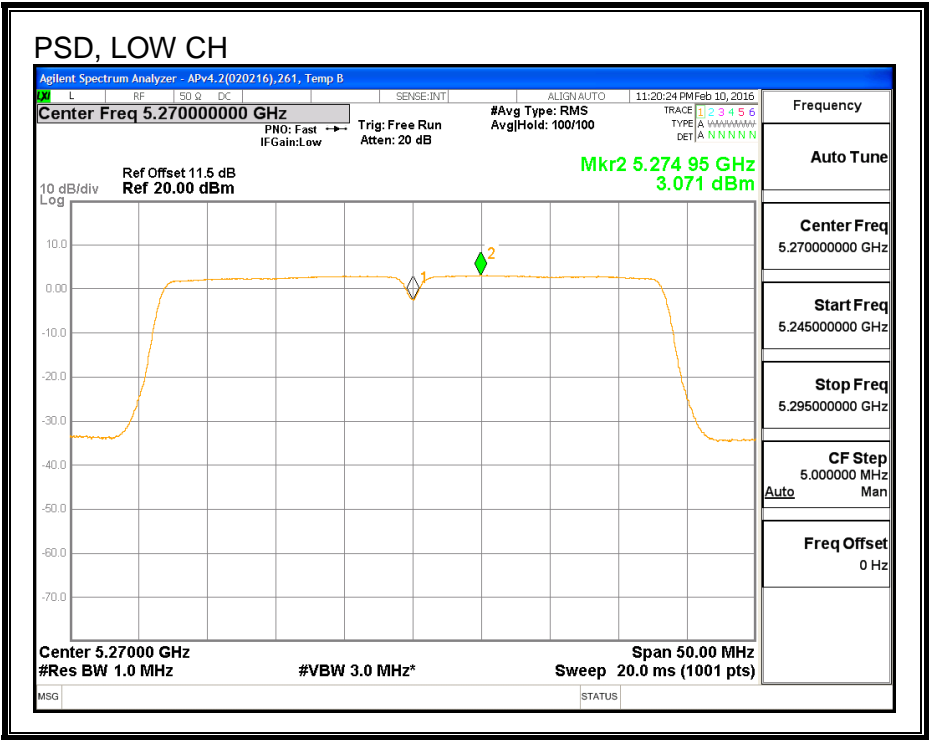
Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5270 | 17.72 | 17.72 | 24.00 | -6.28 |
| High | 5310 | 12.92 | 12.92 | 24.00 | -11.08 |

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5270 | 3.07 | 3.07 | 11.00 | -7.93 |
| High | 5310 | -2.10 | -2.10 | 11.00 | -13.10 |

PSD



8.22. 802.11n HT40 CHAIN 1 MODE IN THE 5.3 GHz BAND

8.22.1. 26 dB BANDWIDTH

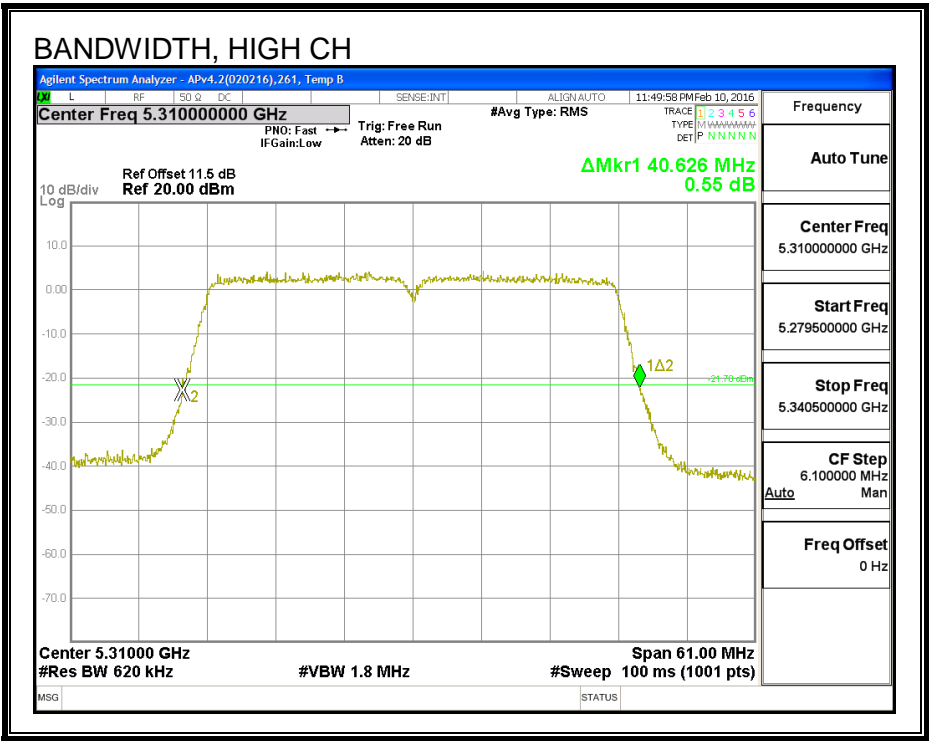
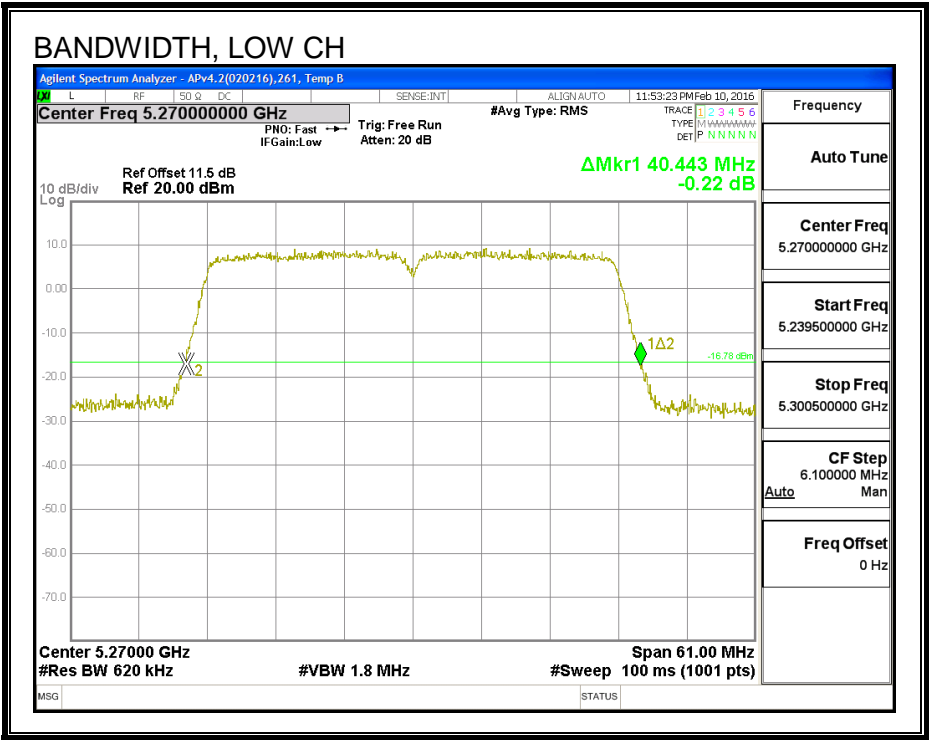
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---------|--------------------|--------------------------|
| Low | 5270 | 40.44 |
| High | 5310 | 40.63 |

26 dB BANDWIDTH



8.22.2. 99% BANDWIDTH

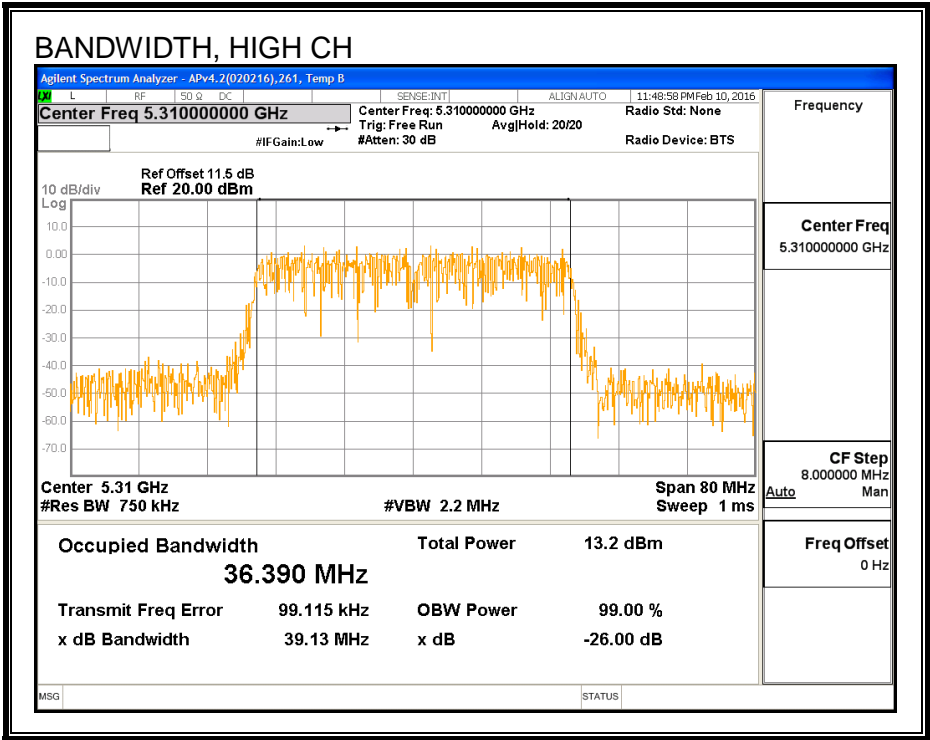
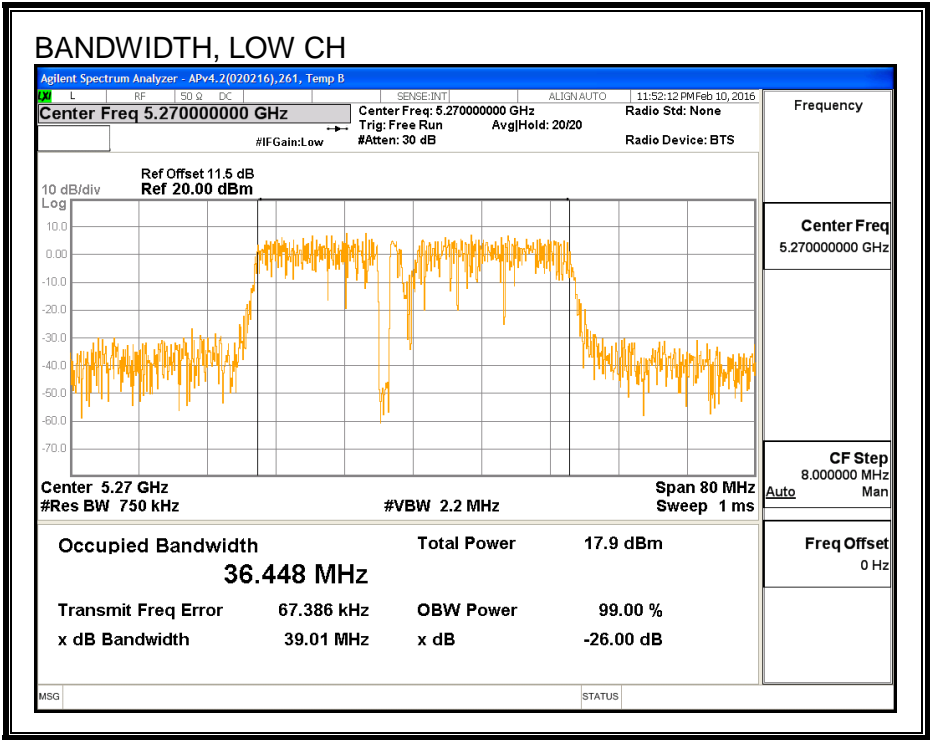
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|--------------------|------------------------|
| Low | 5270 | 36.448 |
| High | 5310 | 36.390 |

99% BANDWIDTH



8.22.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

| Channel | Frequency (MHz) | Power (dBm) |
|---------|--------------------|----------------|
| Low | 5270 | 17.69 |
| High | 5310 | 12.95 |

8.22.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

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 (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|------------------------------|-------------------------|-----------------------|
| Low | 5270 | 40.44 | 36.448 | 3.33 | 24.00 | 11.00 |
| High | 5310 | 40.63 | 36.390 | 3.33 | 24.00 | 11.00 |

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

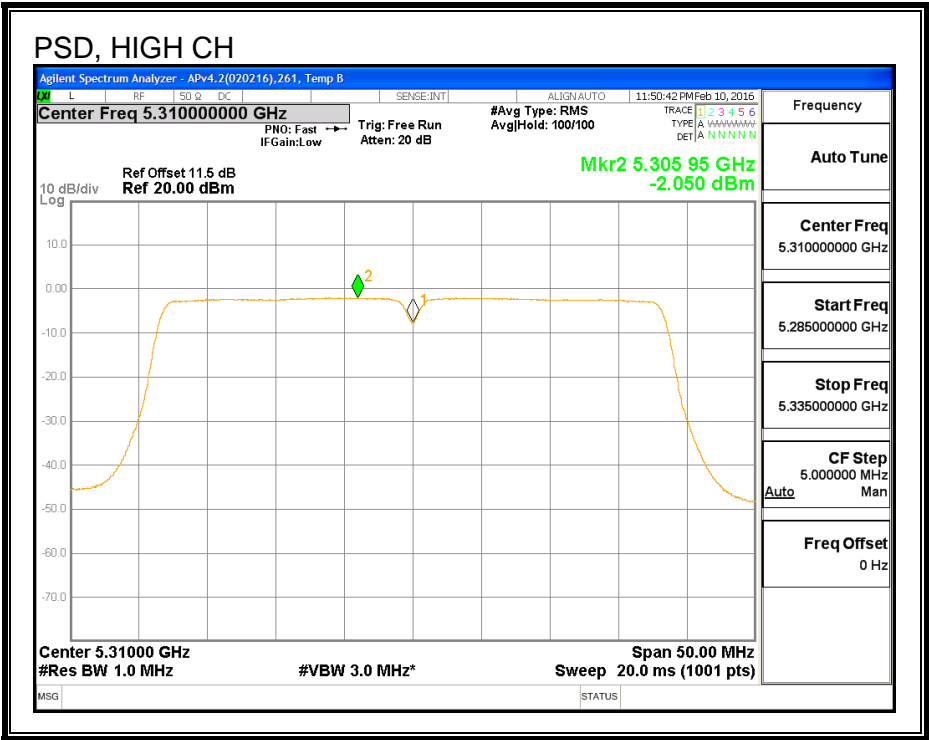
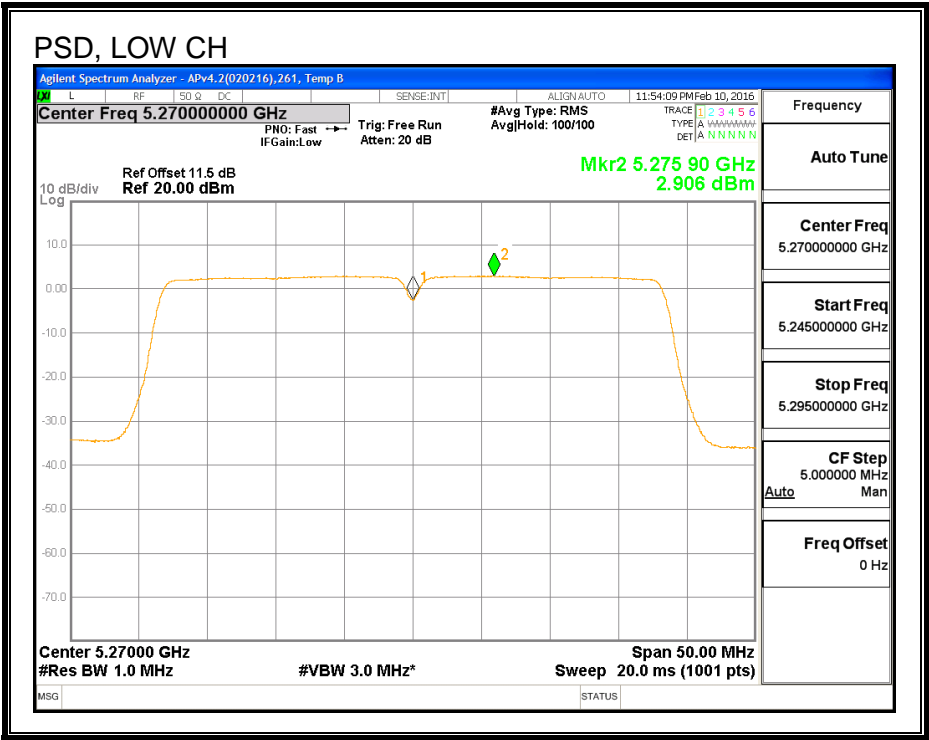
Output Power Results

| Channel | Frequency (MHz) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5270 | 17.69 | 17.69 | 24.00 | -6.31 |
| High | 5310 | 12.95 | 12.95 | 24.00 | -11.05 |

PSD Results

| Channel | Frequency (MHz) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5270 | 2.91 | 2.91 | 11.00 | -8.09 |
| High | 5310 | -2.05 | -2.05 | 11.00 | -13.05 |

PSD



8.23. 802.11n HT40 2Tx CDD MODE IN THE 5.3 GHz BAND

8.23.1. 26 dB BANDWIDTH

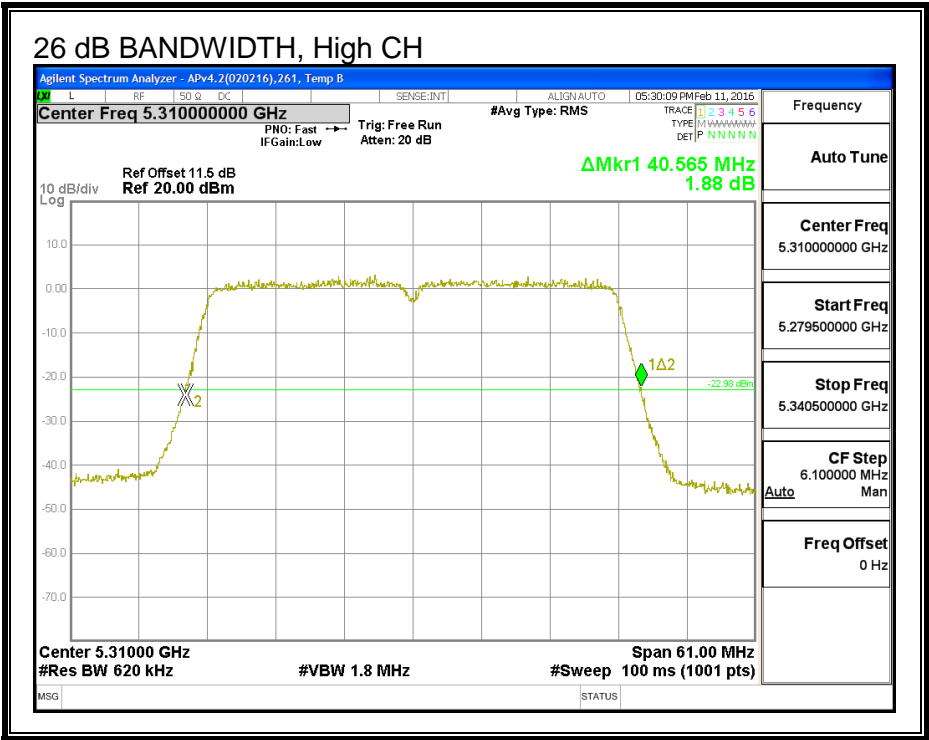
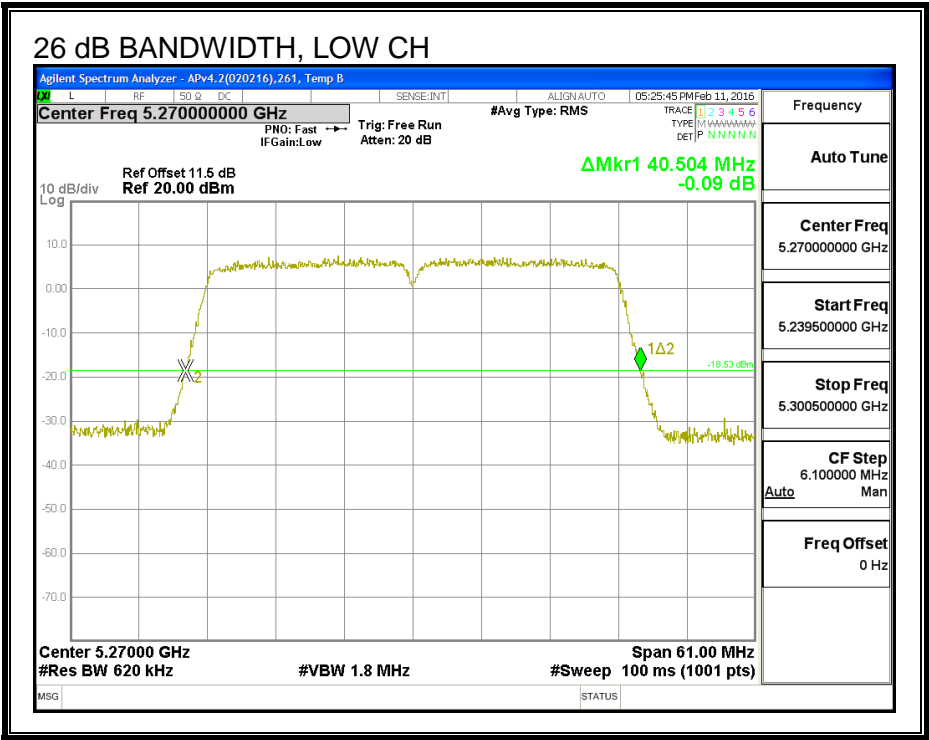
LIMITS

None; for reporting purposes only.

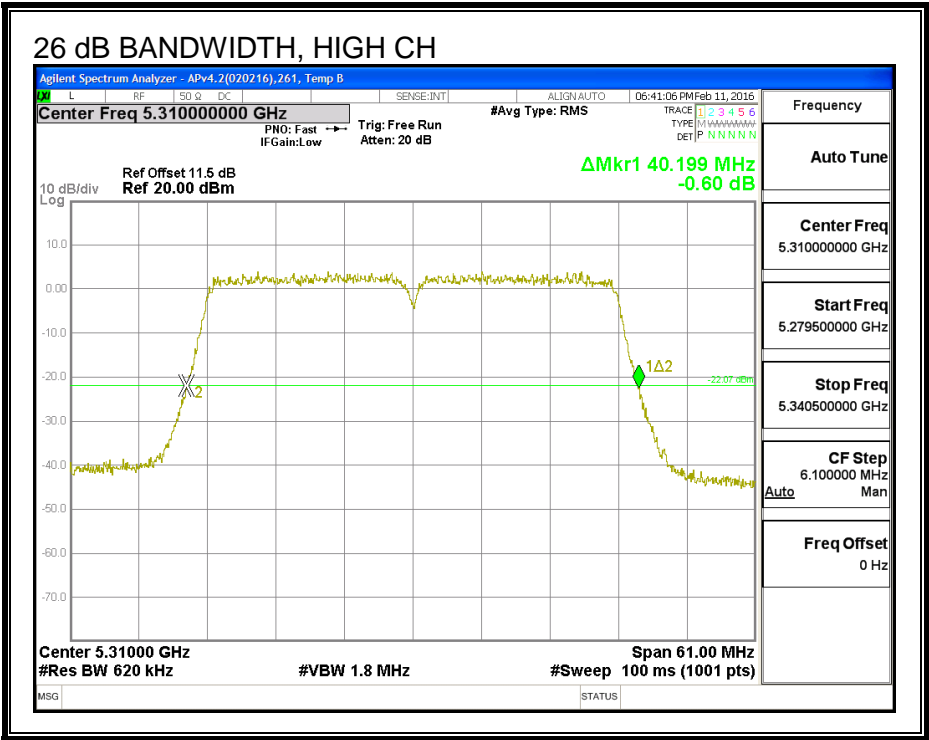
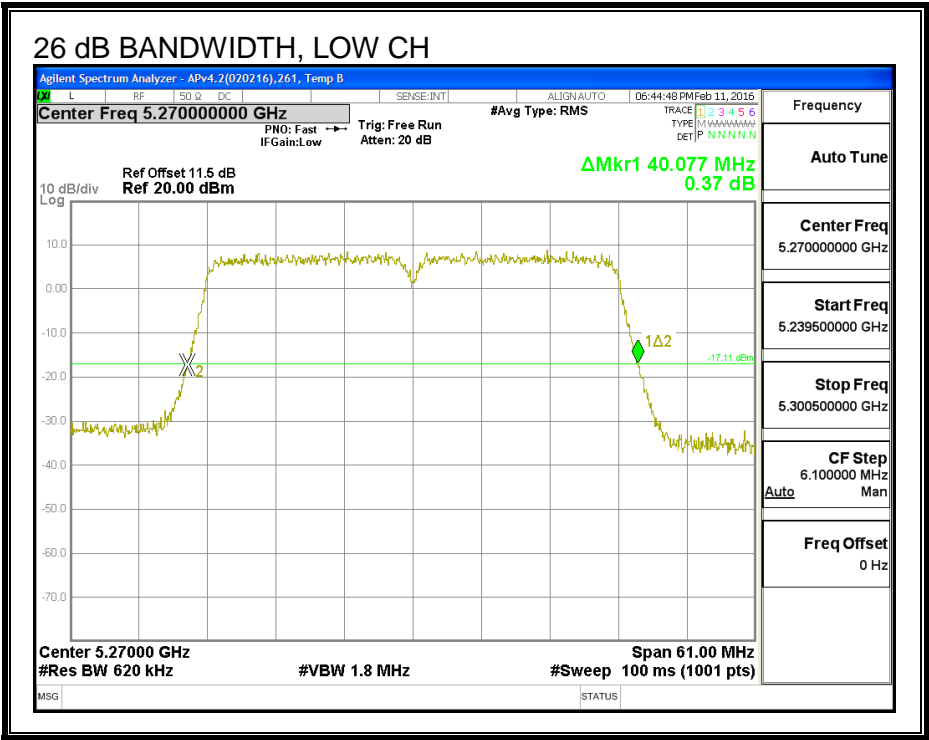
RESULTS

| Channel | Frequency (MHz) | 26 dB BW Chain 0 (MHz) | 26 dB BW Chain 1 (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Low | 5270 | 40.50 | 40.08 |
| High | 5310 | 40.57 | 40.20 |

26 DB BANDWIDTH, CHAIN 0



26 DB BANDWIDTH, CHAIN 1



8.23.2. 99% BANDWIDTH

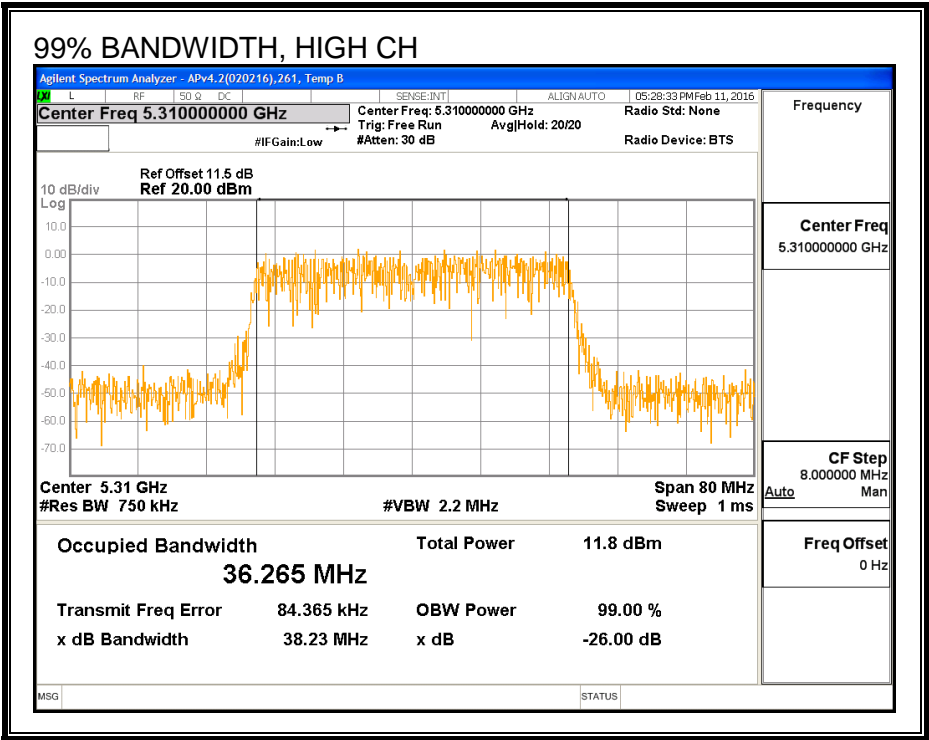
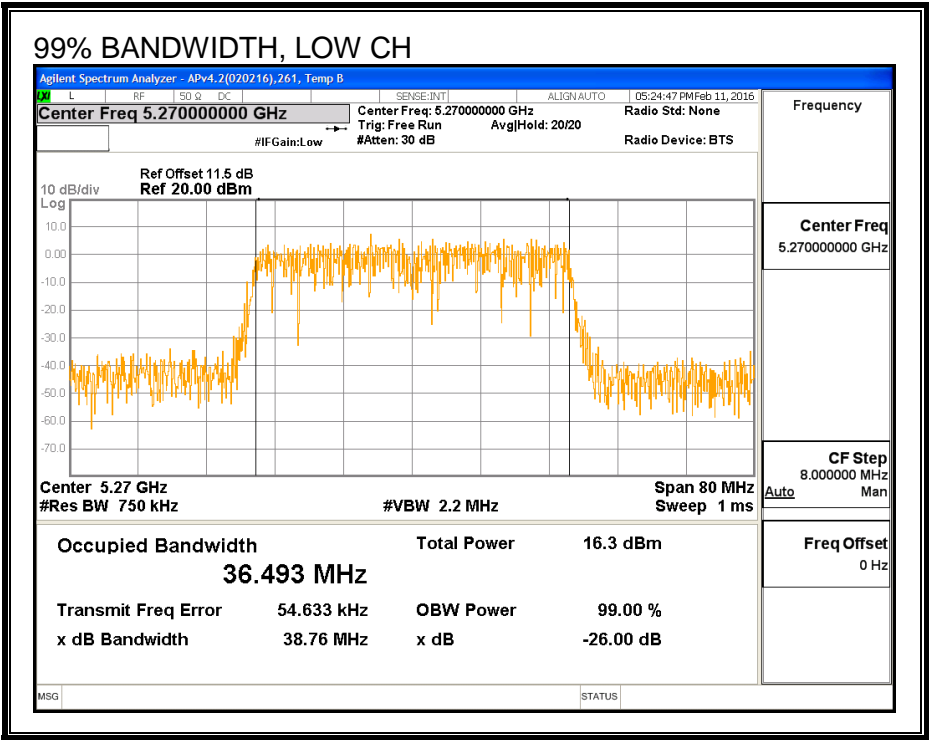
LIMITS

None; for reporting purposes only.

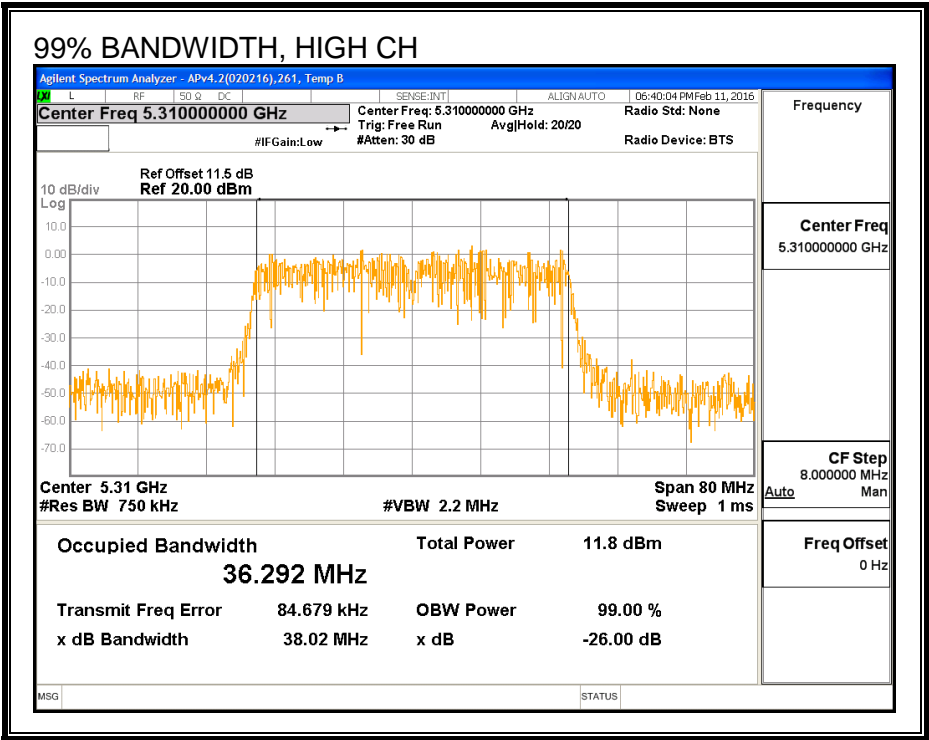
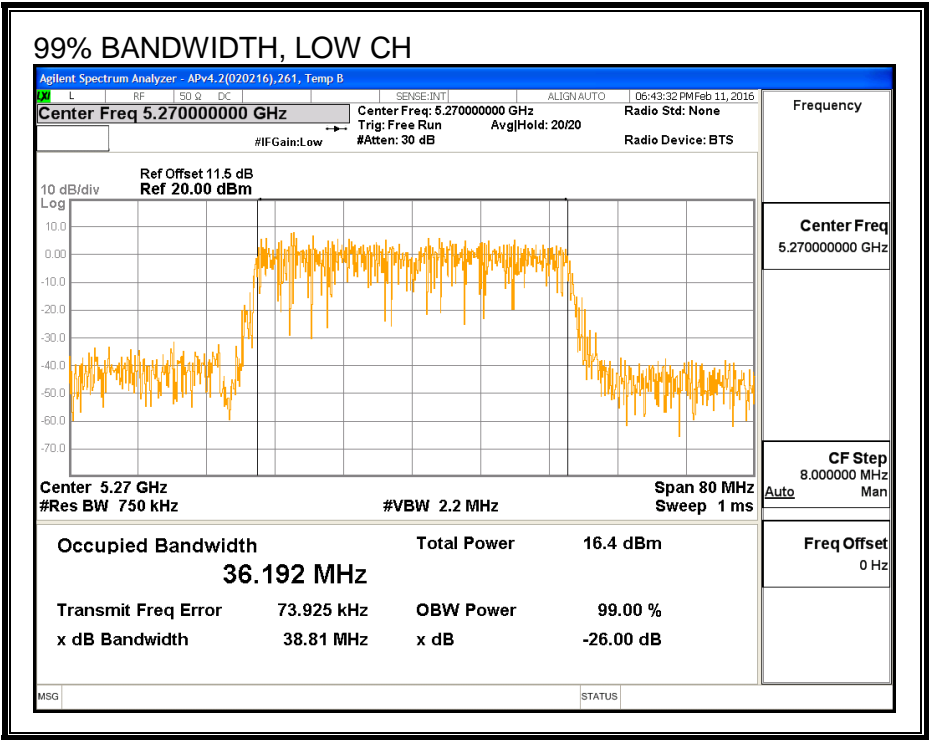
RESULTS

| Channel | Frequency (MHz) | 99% BW Chain 0 (MHz) | 99% BW Chain 1 (MHz) |
|---------|--------------------|----------------------------|----------------------------|
| Low | 5270 | 36.493 | 36.192 |
| High | 5310 | 36.265 | 36.292 |

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



8.23.3. 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 (MHz) | Chain 0 Power (dBm) | Chain 1 Power (dBm) | Total Power (dBm) |
|---------|--------------------|---------------------------|---------------------------|-------------------------|
| Low | 5270 | 15.90 | 15.82 | 18.87 |
| High | 5310 | 11.43 | 11.37 | 14.41 |

8.23.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

DIRECTIONAL ANTENNA GAIN

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

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.05 | 3.33 | 3.19 |

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

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.05 | 3.33 | 6.20 |

RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|---|---|-------------------------|-----------------------|
| Low | 5270 | 40.50 | 36.493 | 3.19 | 6.20 | 24.00 | 10.80 |
| High | 5310 | 40.57 | 36.292 | 3.19 | 6.20 | 24.00 | 10.80 |

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

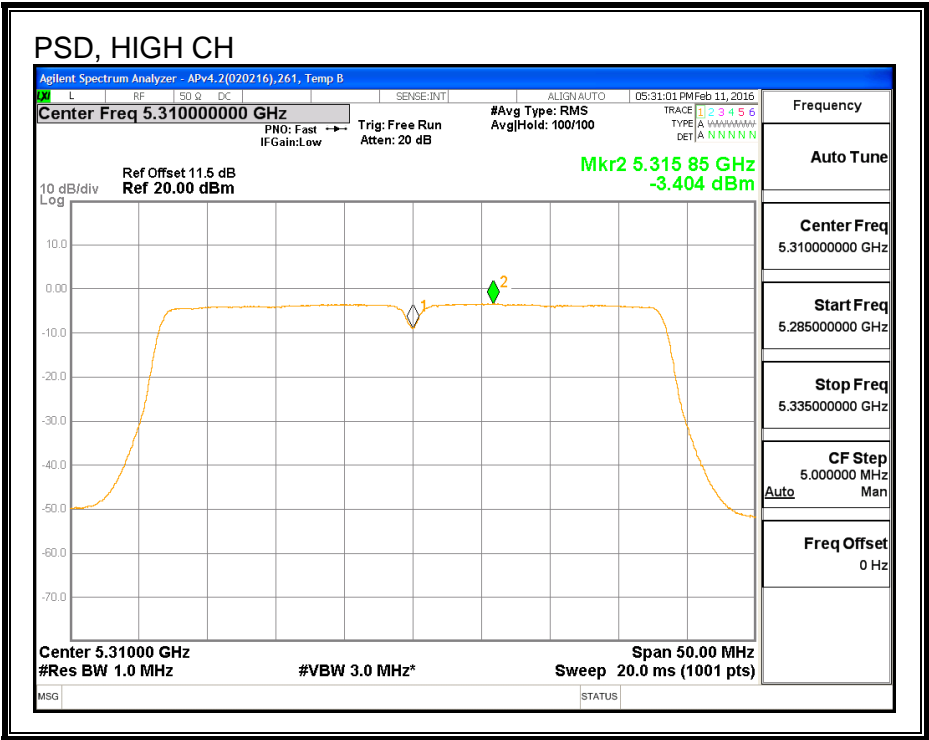
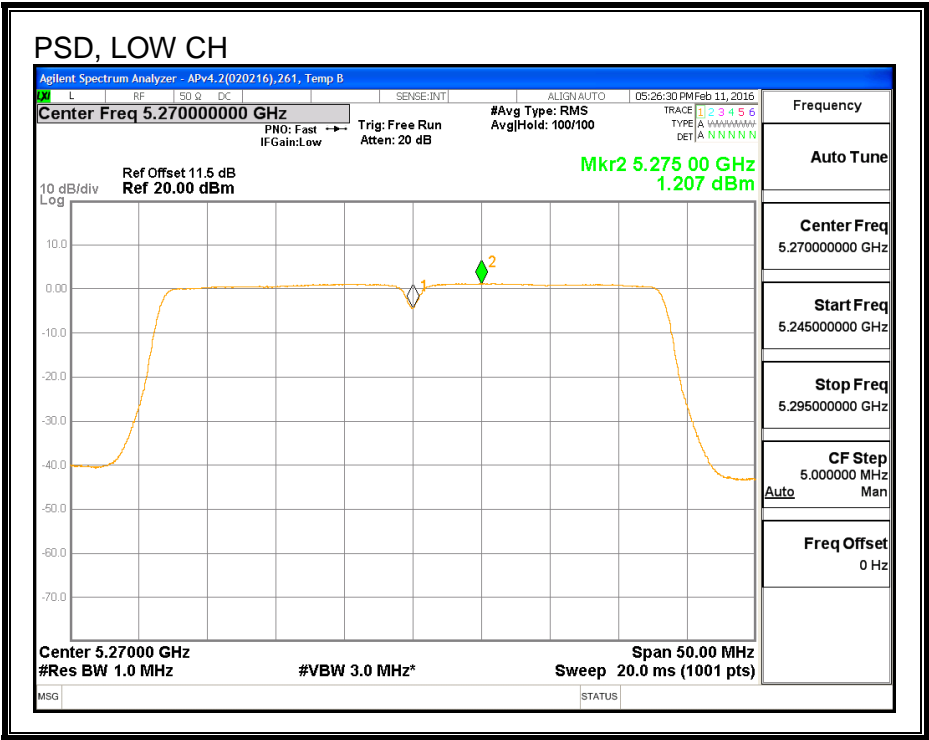
Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5270 | 15.90 | 15.82 | 18.87 | 24.00 | -5.13 |
| High | 5310 | 11.43 | 11.37 | 14.41 | 24.00 | -9.59 |

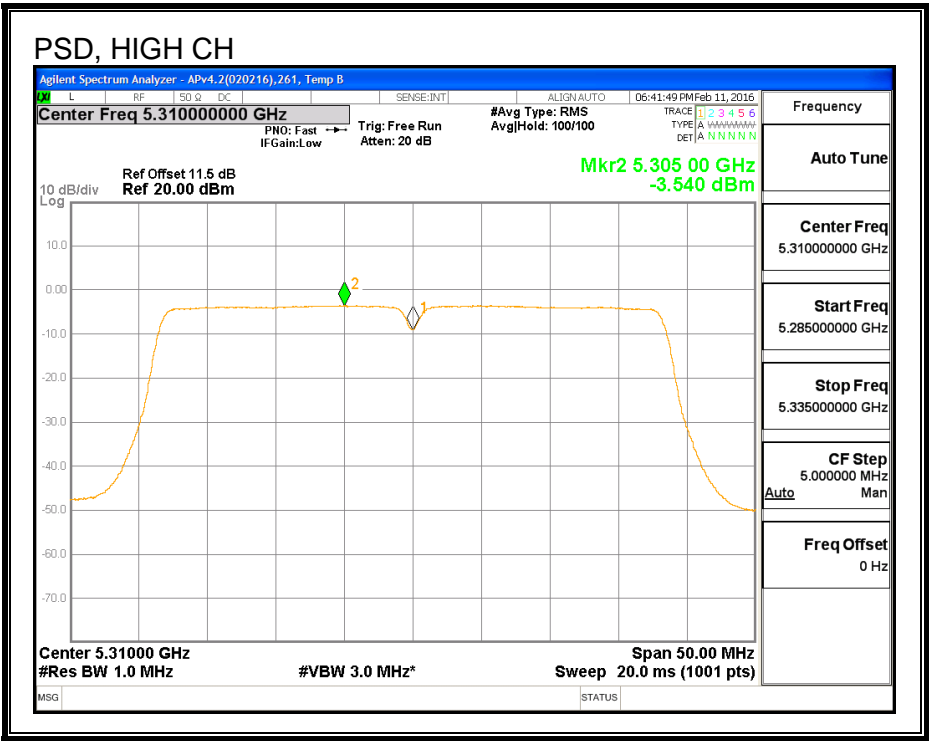
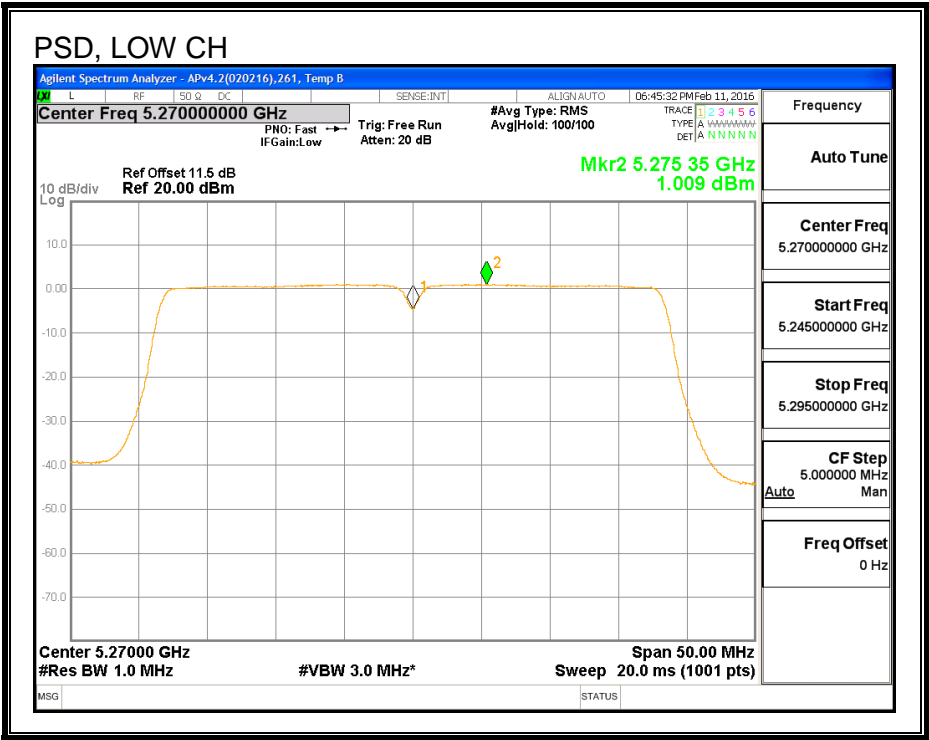
PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5270 | 1.21 | 1.01 | 4.12 | 10.80 | -6.68 |
| High | 5310 | -3.40 | -3.54 | -0.46 | 10.80 | -11.26 |

PSD, CHAIN 0



PSD, CHAIN 1



8.24. 802.11n HT40 2Tx STBC MODE IN THE 5.3 GHz BAND

8.24.1. 26 dB BANDWIDTH

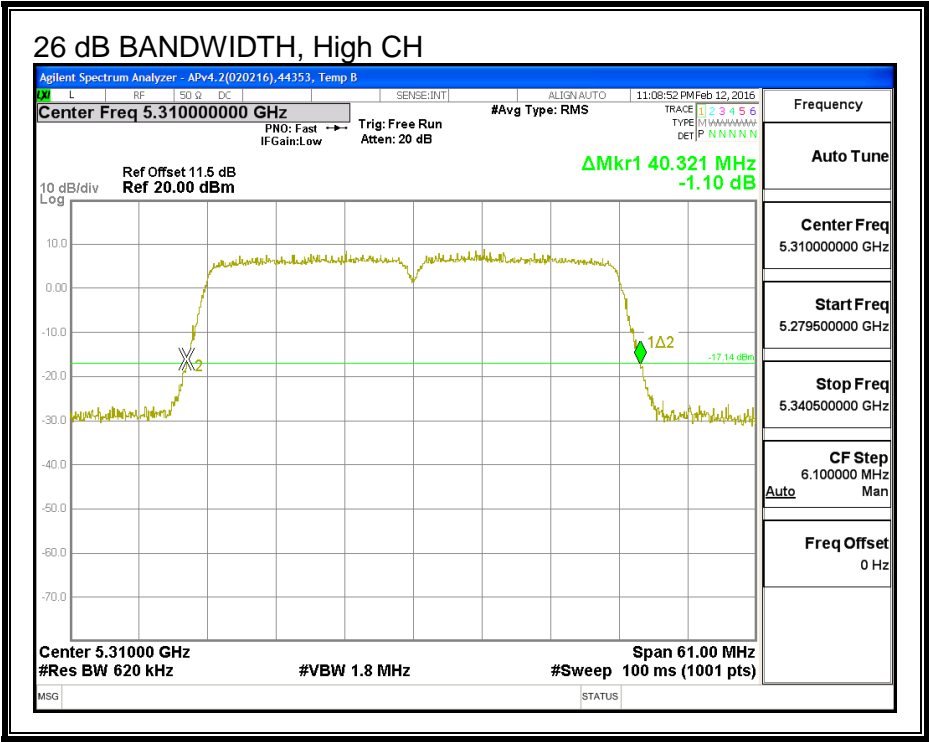
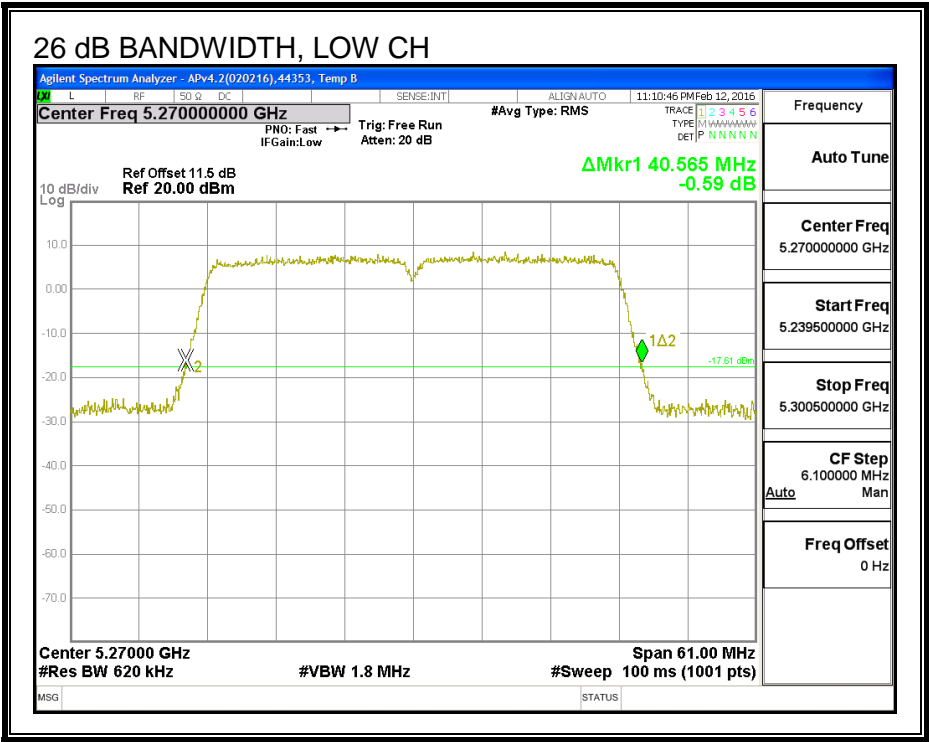
LIMITS

None; for reporting purposes only.

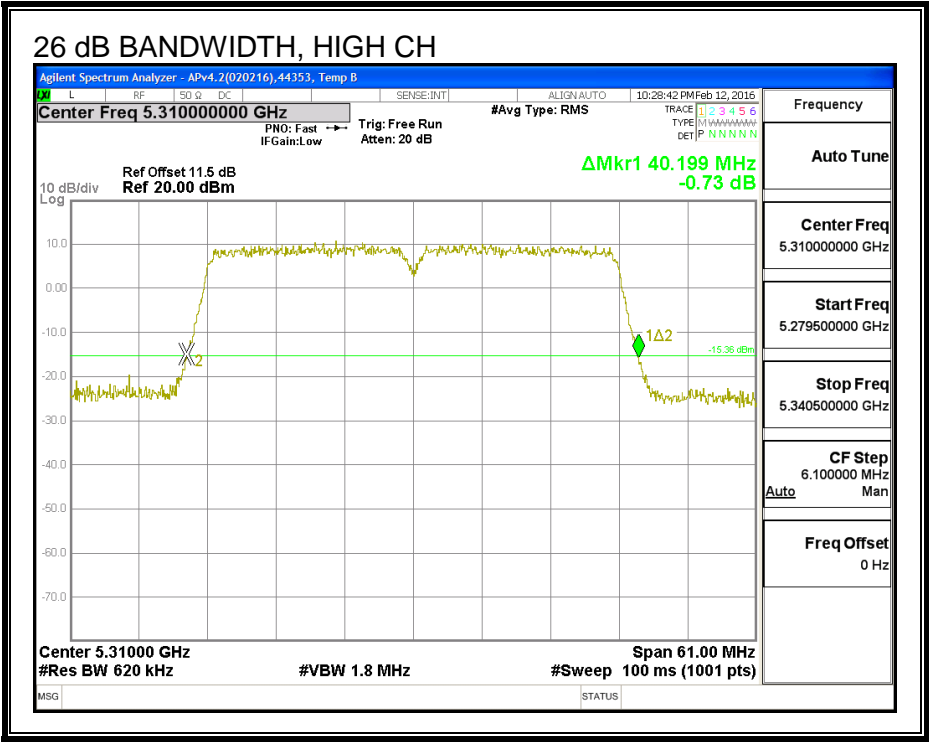
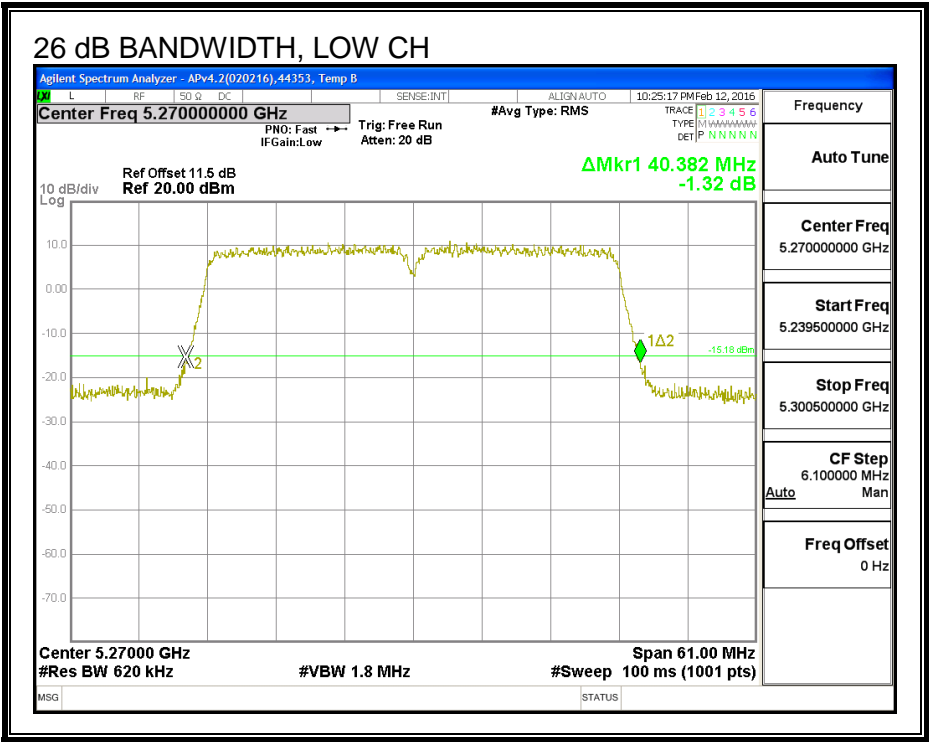
RESULTS

| Channel | Frequency (MHz) | 26 dB BW Chain 0 (MHz) | 26 dB BW Chain 1 (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Low | 5270 | 40.57 | 40.38 |
| High | 5310 | 40.32 | 40.20 |

26 DB BANDWIDTH, CHAIN 0



26 DB BANDWIDTH, CHAIN 1



8.24.2. 99% BANDWIDTH

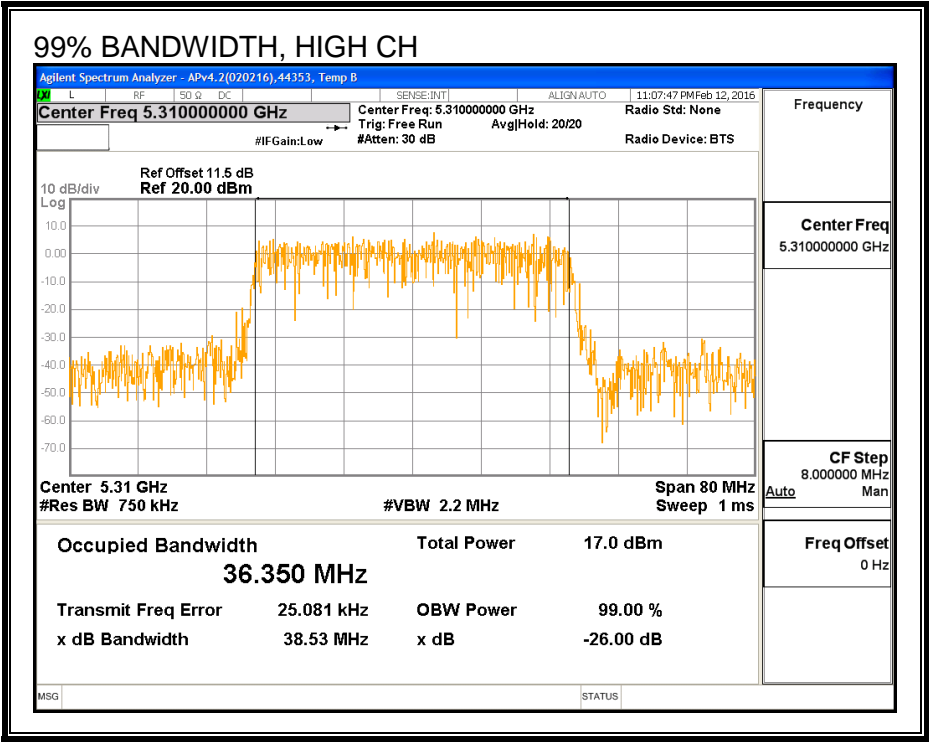
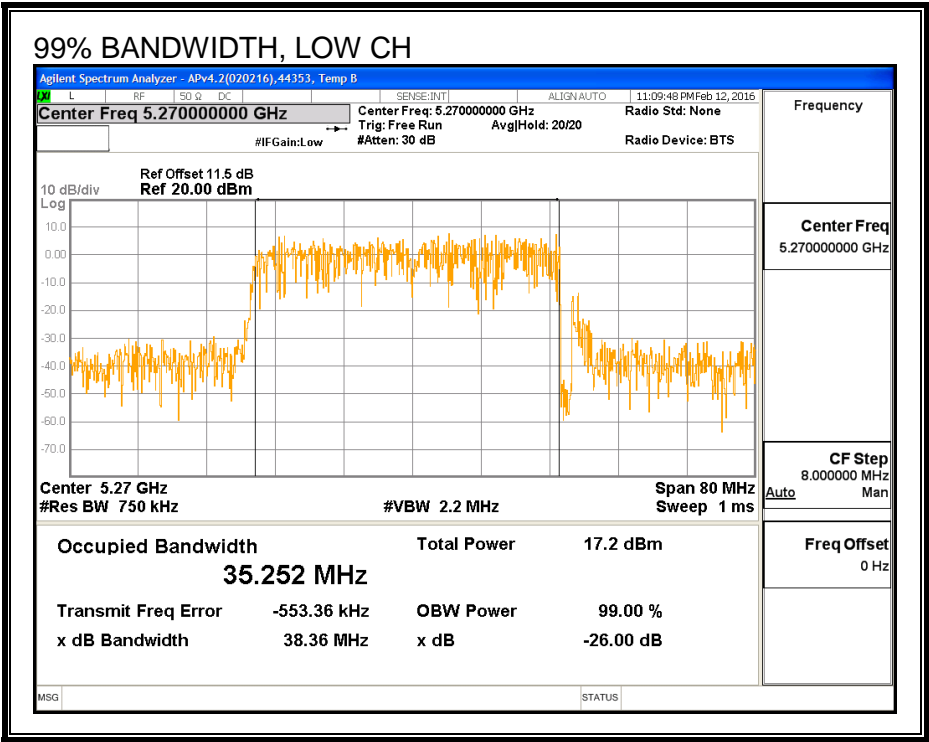
LIMITS

None; for reporting purposes only.

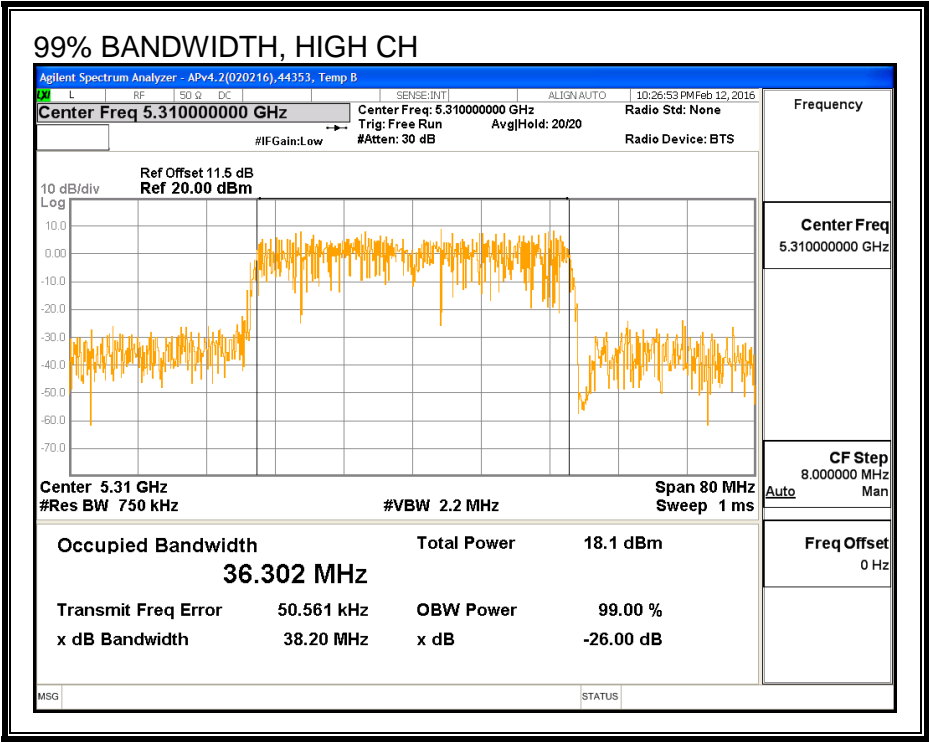
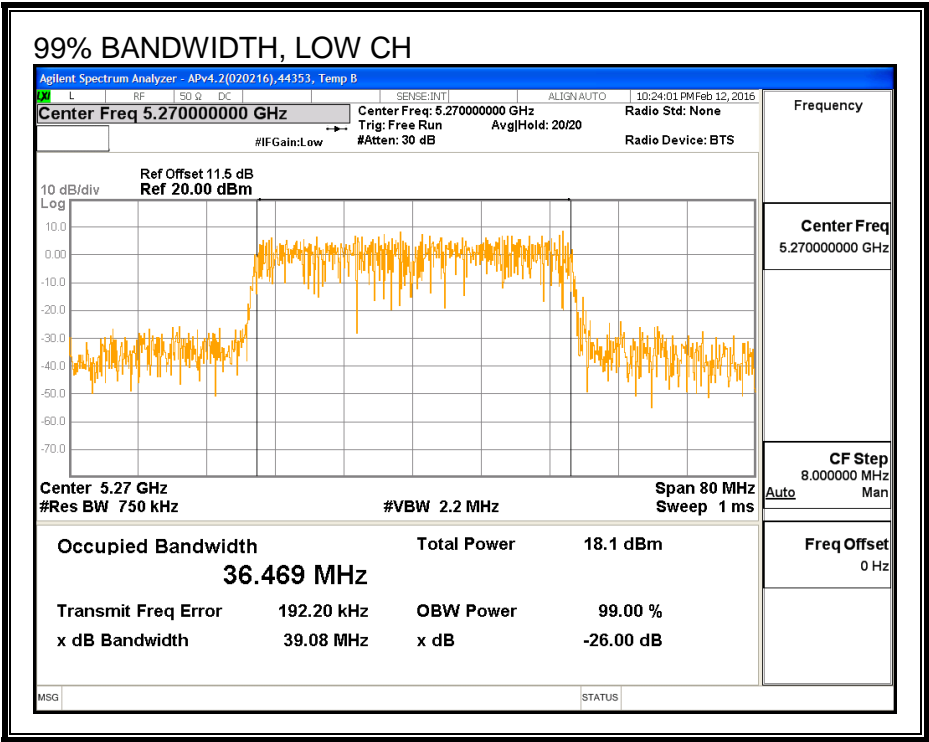
RESULTS

| Channel | Frequency (MHz) | 99% BW Chain 0 (MHz) | 99% BW Chain 1 (MHz) |
|---------|--------------------|----------------------------|----------------------------|
| Low | 5270 | 35.252 | 36.469 |
| High | 5310 | 36.350 | 36.302 |

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



8.24.3. 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 (MHz) | Chain 0 Power (dBm) | Chain 1 Power (dBm) | Total Power (dBm) |
|---------|--------------------|---------------------------|---------------------------|-------------------------|
| Low | 5270 | 16.82 | 16.98 | 19.91 |
| High | 5310 | 11.95 | 12.00 | 14.99 |

8.24.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

DIRECTIONAL ANTENNA GAIN

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

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.05 | 3.33 | 3.19 |

RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|---|---|-------------------------|-----------------------|
| Low | 5270 | 40.38 | 35.252 | 3.19 | 3.19 | 24.00 | 11.00 |
| High | 5310 | 40.20 | 36.302 | 3.19 | 3.19 | 24.00 | 11.00 |

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

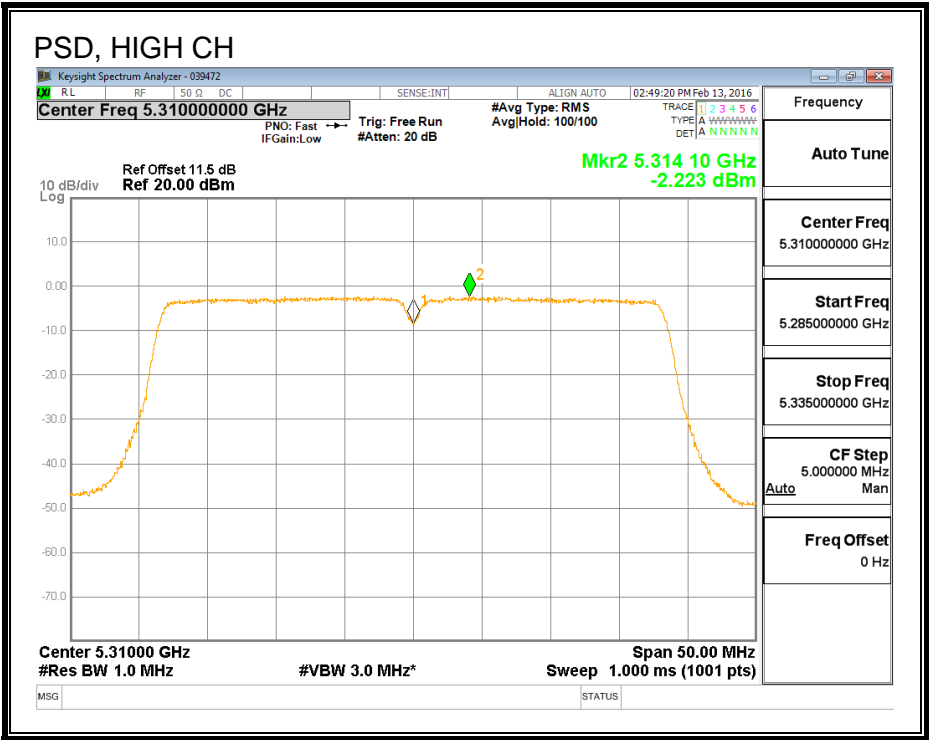
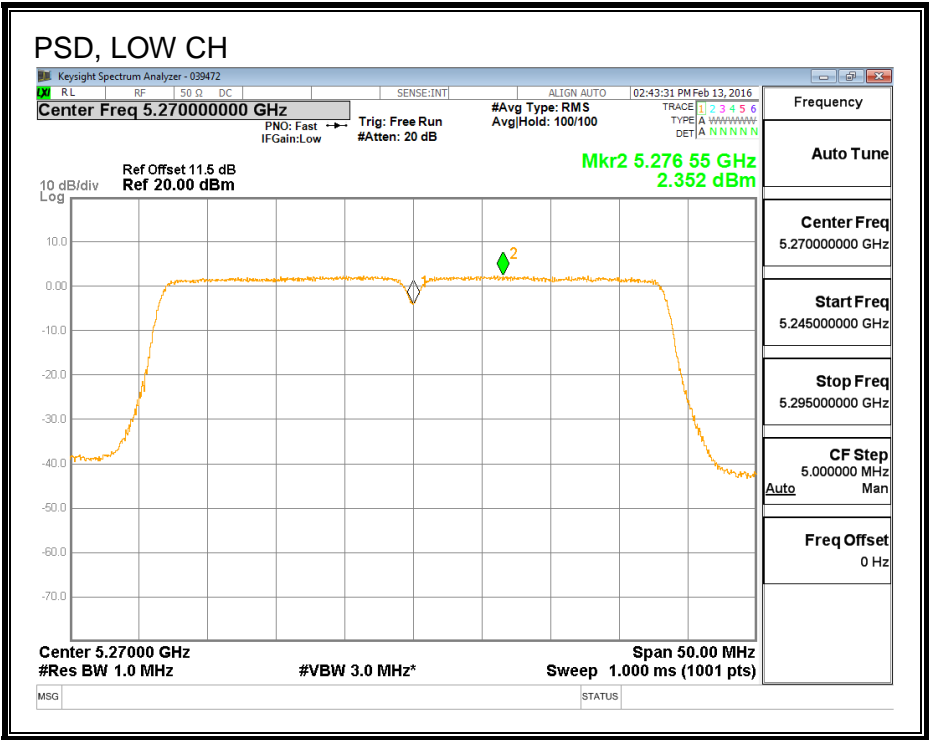
Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5270 | 16.82 | 16.98 | 19.91 | 24.00 | -4.09 |
| High | 5310 | 11.95 | 12.00 | 14.99 | 24.00 | -9.01 |

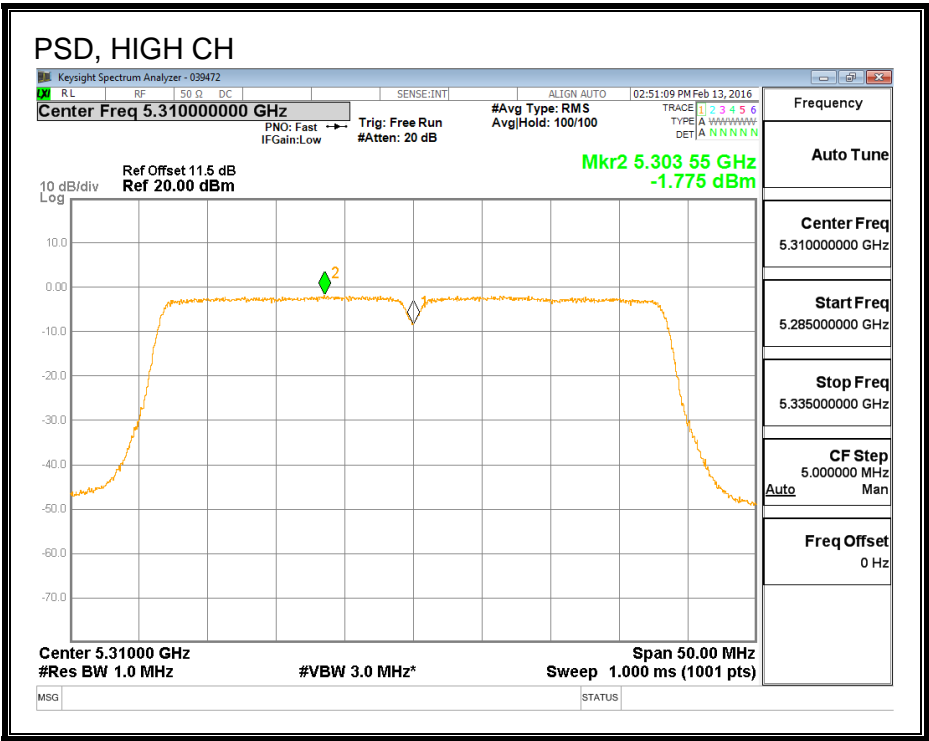
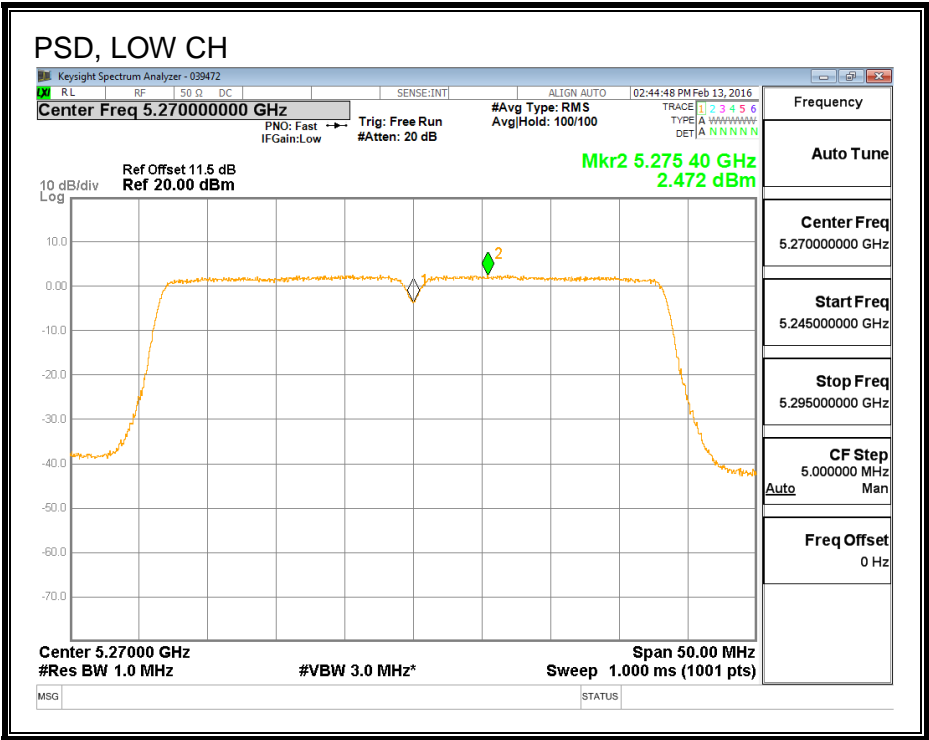
PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5270 | 2.35 | 2.47 | 5.42 | 11.00 | -5.58 |
| High | 5310 | -2.22 | -1.78 | 1.02 | 11.00 | -9.98 |

PSD, CHAIN 0



PSD, CHAIN 1



8.25. 802.11an VHT40 2Tx BEAM FORMING MODE IN THE 5.3 GHz BAND

8.25.1. 26 dB BANDWIDTH

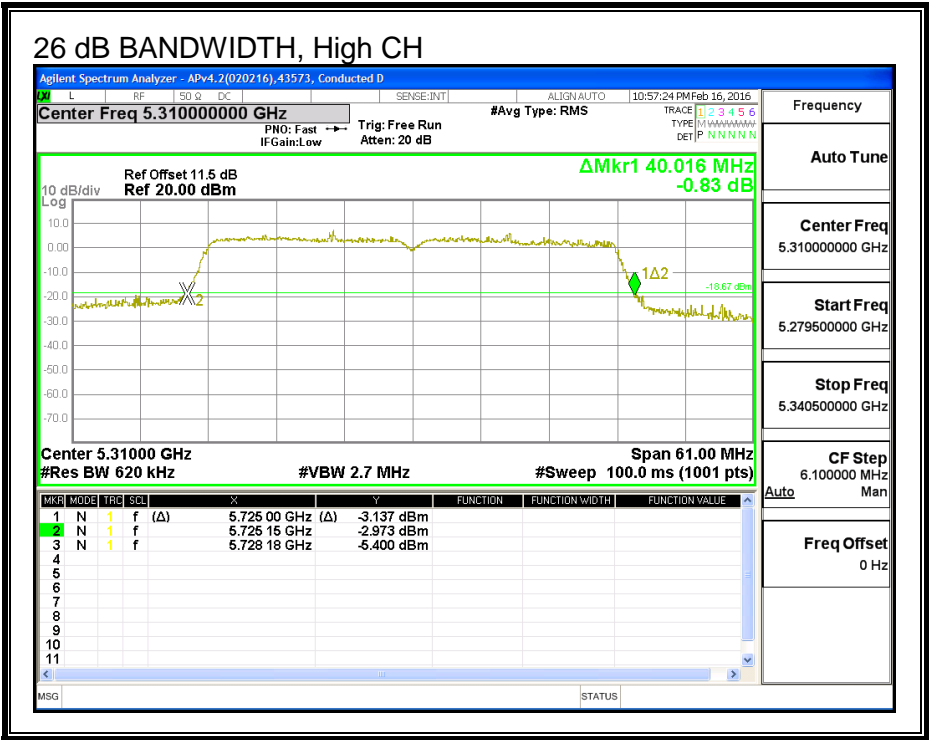
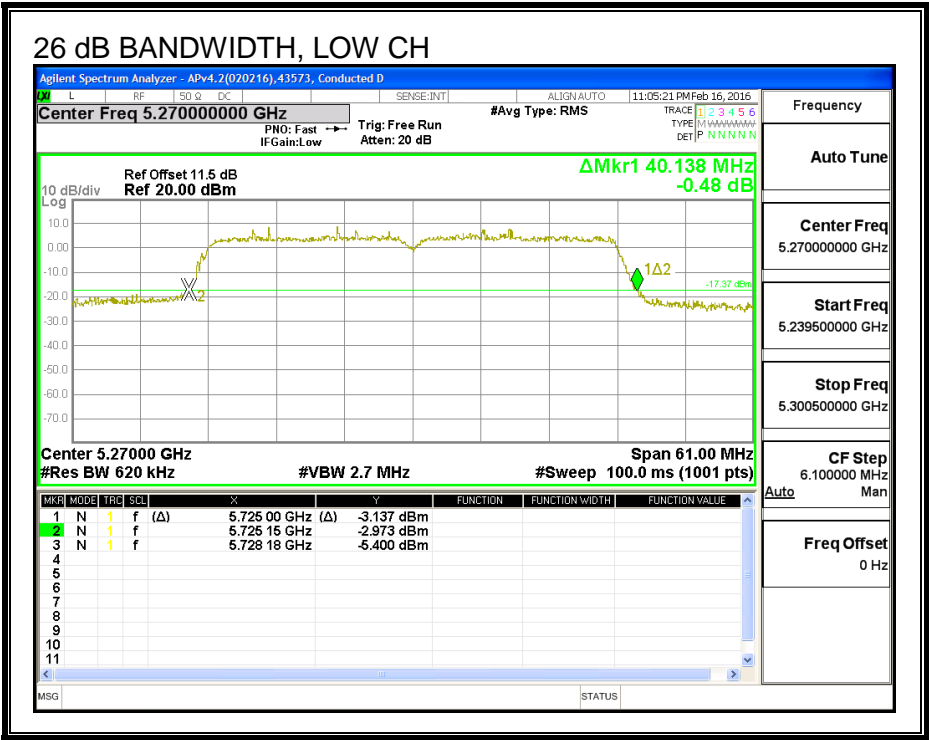
LIMITS

None; for reporting purposes only.

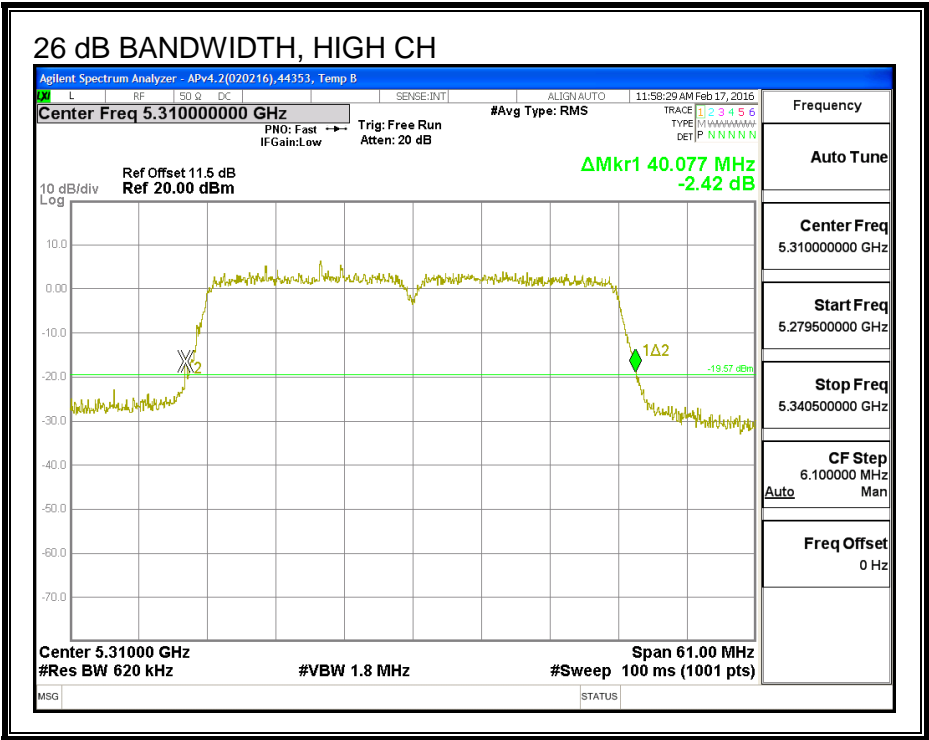
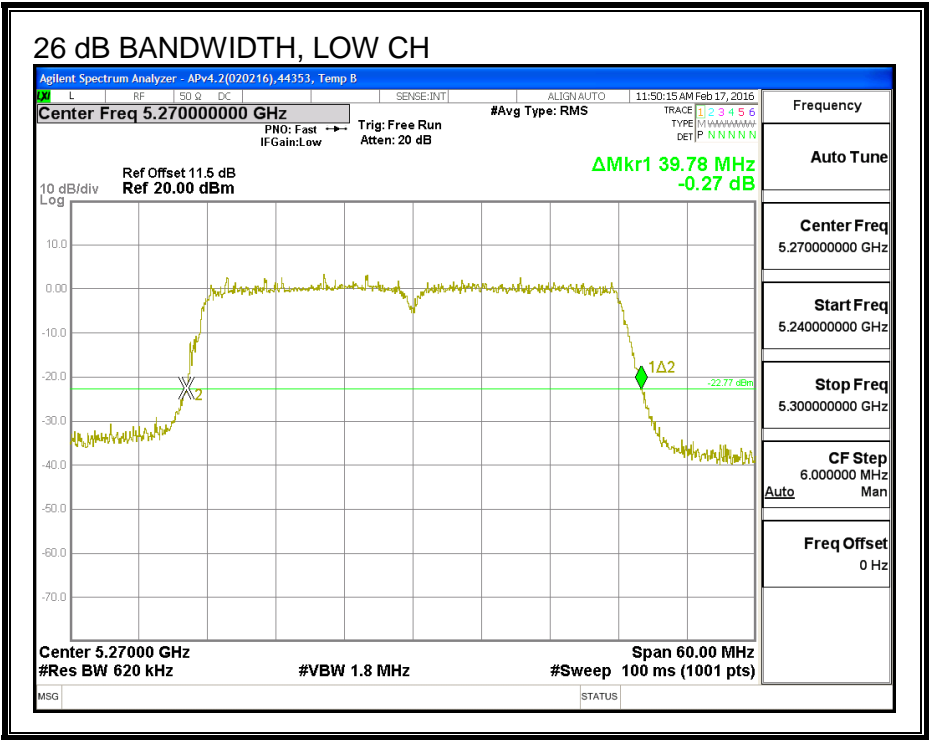
RESULTS

| Channel | Frequency (MHz) | 26 dB BW Chain 0 (MHz) | 26 dB BW Chain 1 (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Low | 5270 | 40.14 | 39.78 |
| High | 5310 | 40.02 | 40.08 |

26 DB BANDWIDTH, CHAIN 0



26 DB BANDWIDTH, CHAIN 1



8.25.2. 99% BANDWIDTH

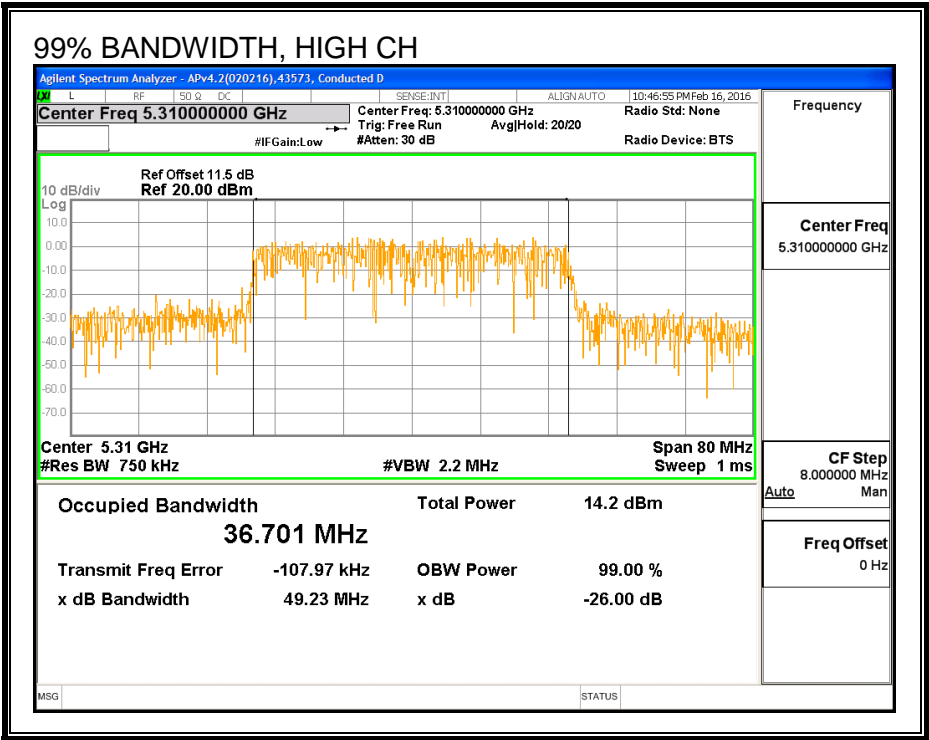
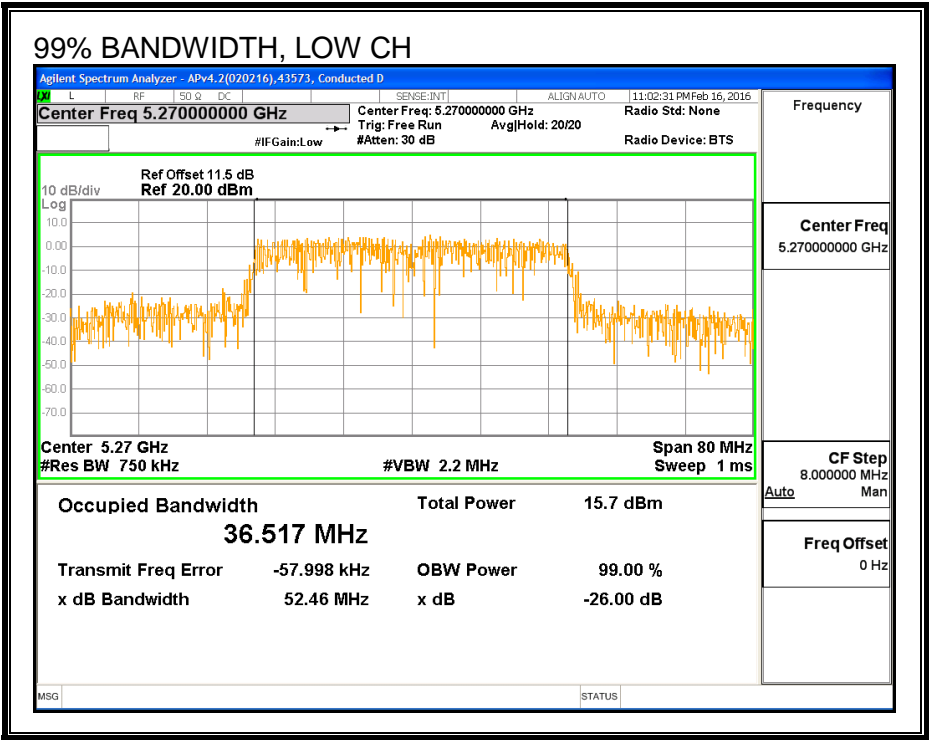
LIMITS

None; for reporting purposes only.

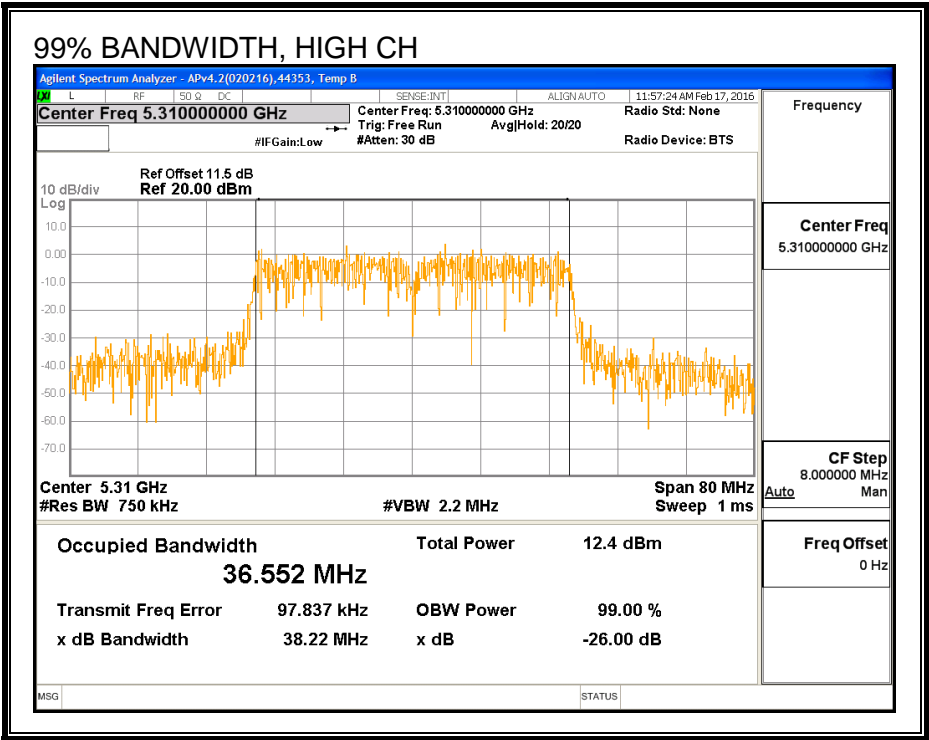
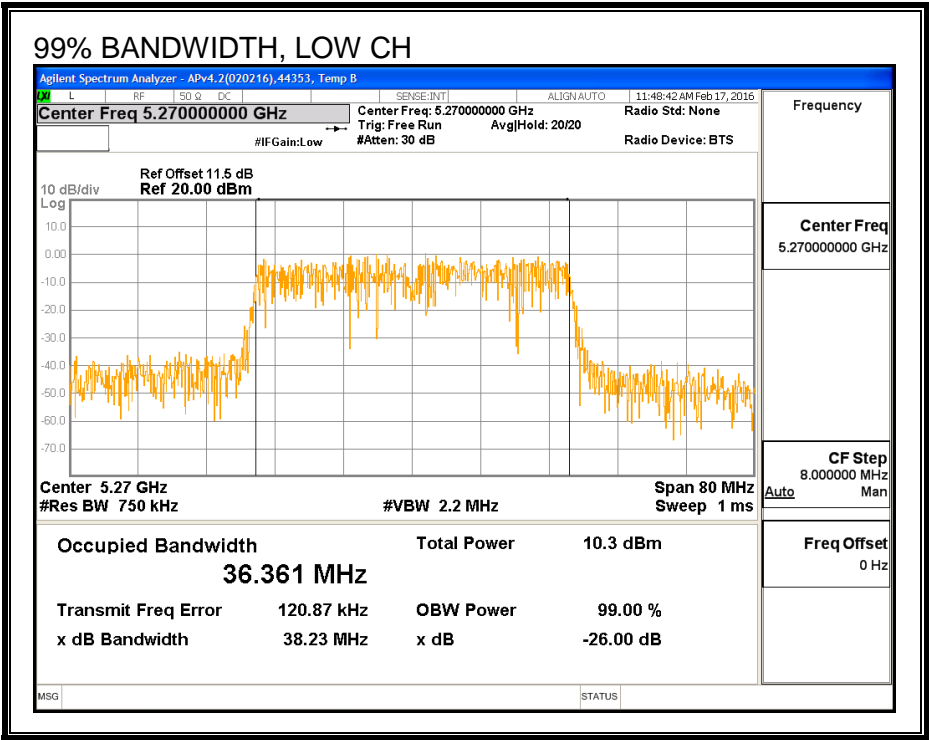
RESULTS

| Channel | Frequency (MHz) | 99% BW Chain 0 (MHz) | 99% BW Chain 1 (MHz) |
|---------|--------------------|----------------------------|----------------------------|
| Low | 5270 | 36.517 | 36.361 |
| High | 5310 | 36.701 | 36.552 |

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



8.25.3. 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 (MHz) | Chain 0 Power (dBm) | Chain 1 Power (dBm) | Total Power (dBm) |
|---------|--------------------|---------------------------|---------------------------|-------------------------|
| Low | 5270 | 15.85 | 15.90 | 18.89 |
| High | 5310 | 12.42 | 12.33 | 15.39 |

8.25.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

DIRECTIONAL ANTENNA GAIN

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

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.05 | 3.33 | 6.20 |

RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|---|---|-------------------------|-----------------------|
| Low | 5270 | 40.14 | 36.517 | 6.20 | 6.20 | 24.00 | 10.80 |
| High | 5310 | 40.02 | 36.701 | 6.20 | 6.20 | 24.00 | 10.80 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.09 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

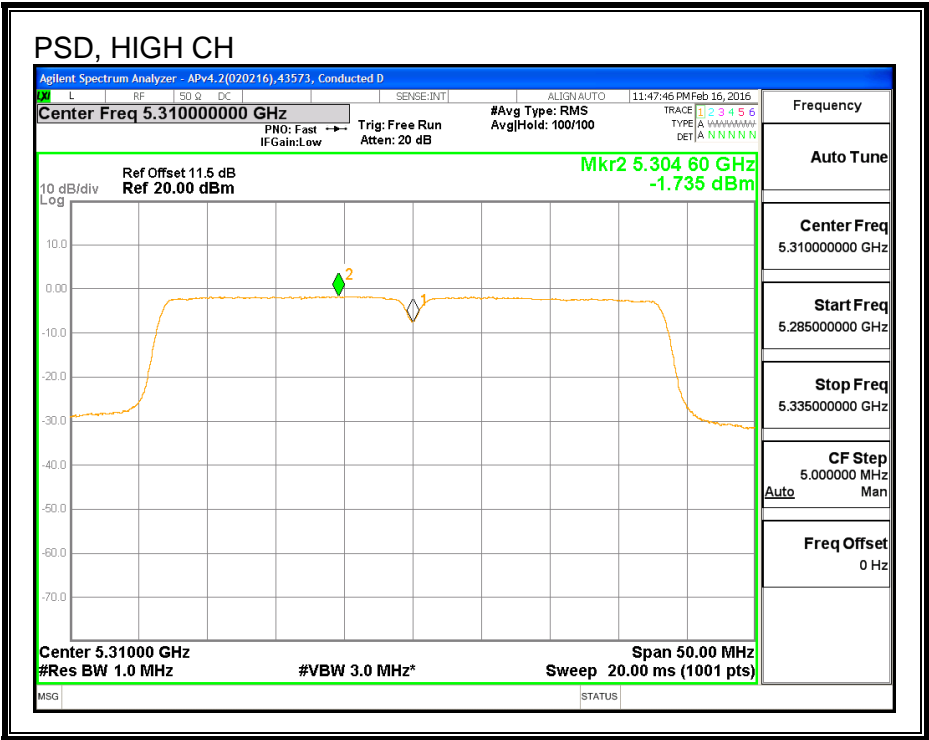
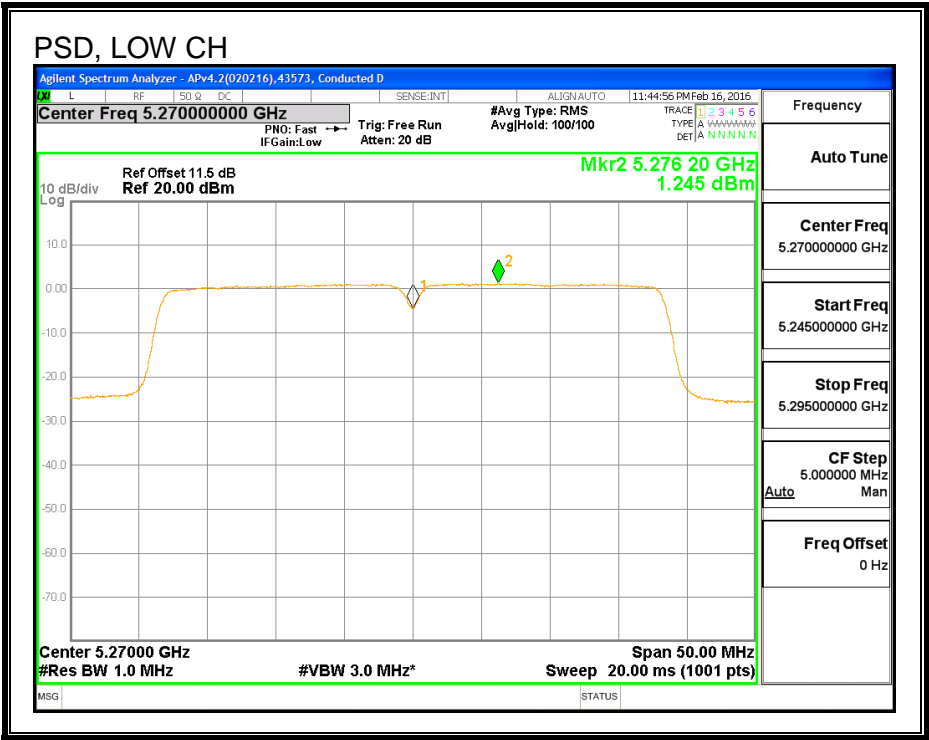
Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5270 | 15.85 | 15.90 | 18.89 | 24.00 | -5.11 |
| High | 5310 | 12.42 | 12.33 | 15.39 | 24.00 | -8.61 |

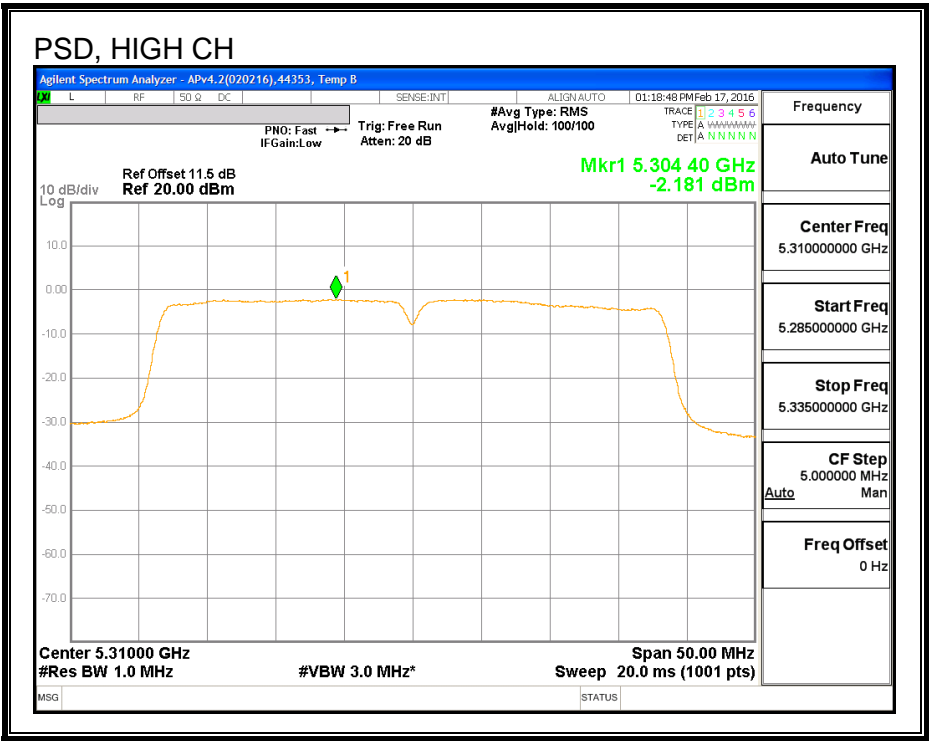
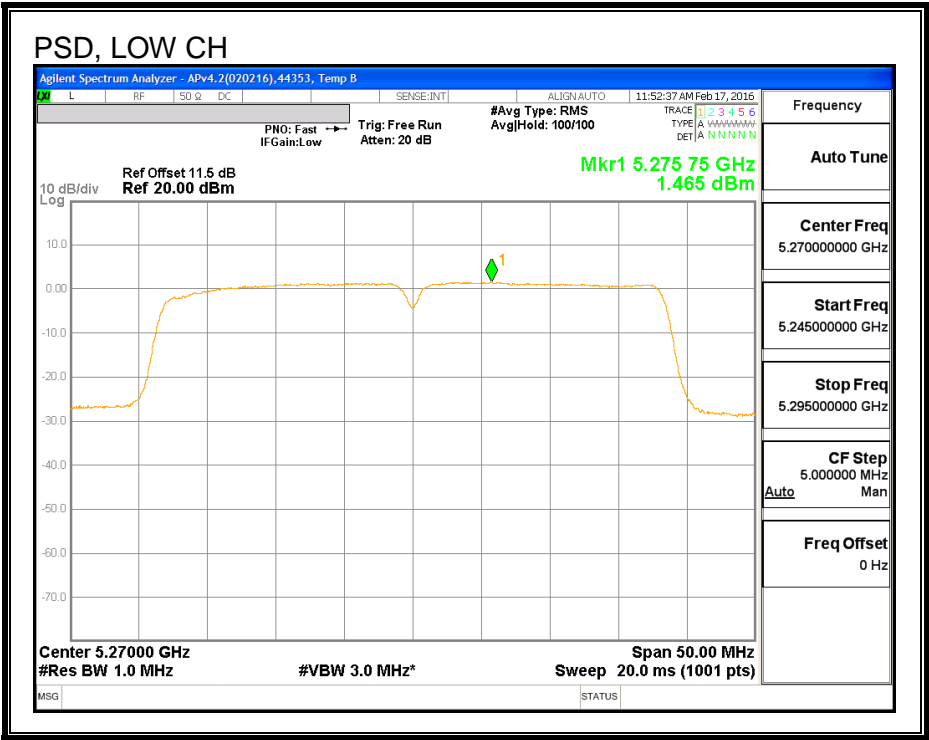
PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5270 | 1.25 | 1.47 | 4.46 | 10.80 | -6.34 |
| High | 5310 | -1.74 | -2.18 | 1.15 | 10.80 | -9.65 |

PSD, CHAIN 0



PSD, CHAIN 1



8.26. 802.11ac VHT80 CHAIN 0 MODE IN THE 5.3 GHz BAND

8.26.1. 26 dB BANDWIDTH

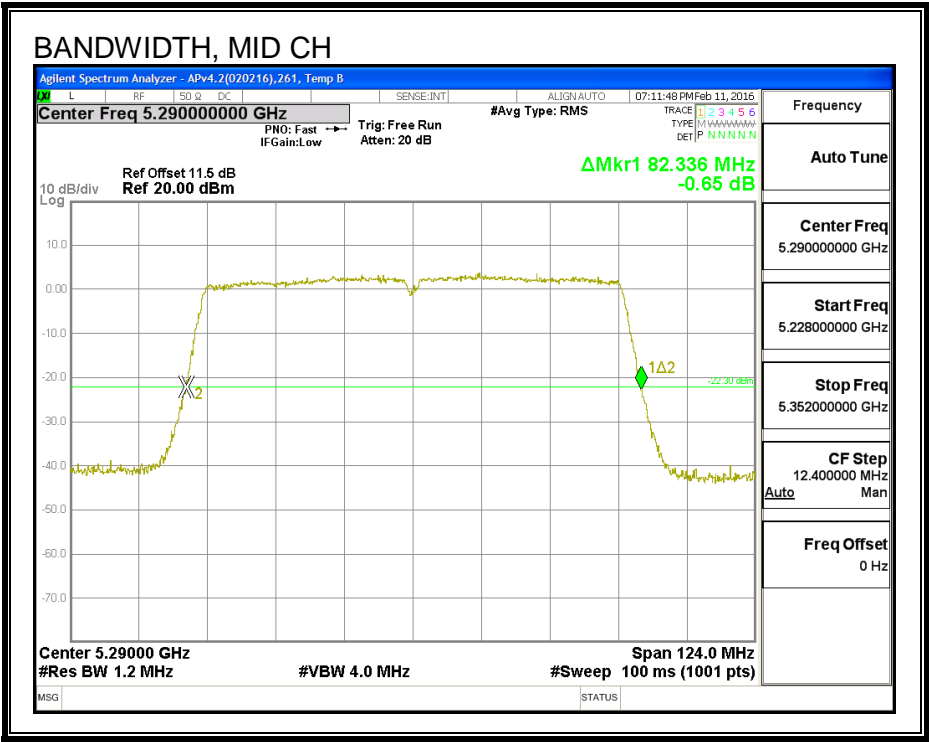
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---------|--------------------|--------------------------|
| Mid | 5290 | 82.34 |

26 dB BANDWIDTH



8.26.2. 99% BANDWIDTH

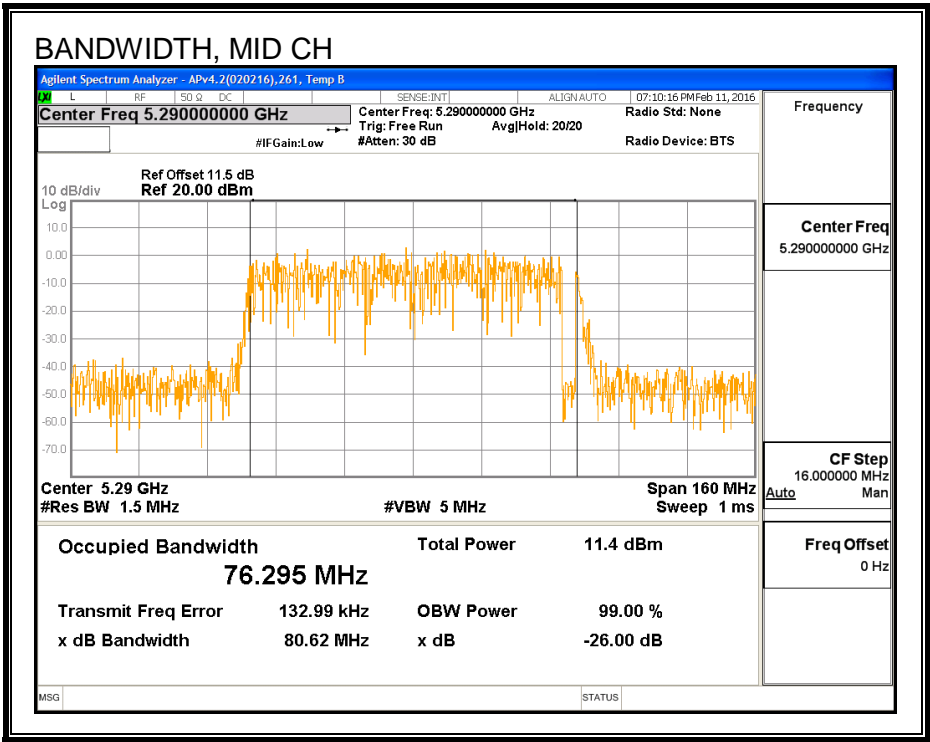
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|--------------------|------------------------|
| Mid | 5290 | 76.295 |

99% BANDWIDTH



8.26.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

| Channel | Frequency (MHz) | Power (dBm) |
|---------|--------------------|----------------|
| Mid | 5290 | 10.96 |

8.26.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

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 (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|------------------------------|-------------------------|-----------------------|
| Mid | 5290 | 82.34 | 76.295 | 3.05 | 24.00 | 11.00 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.16 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

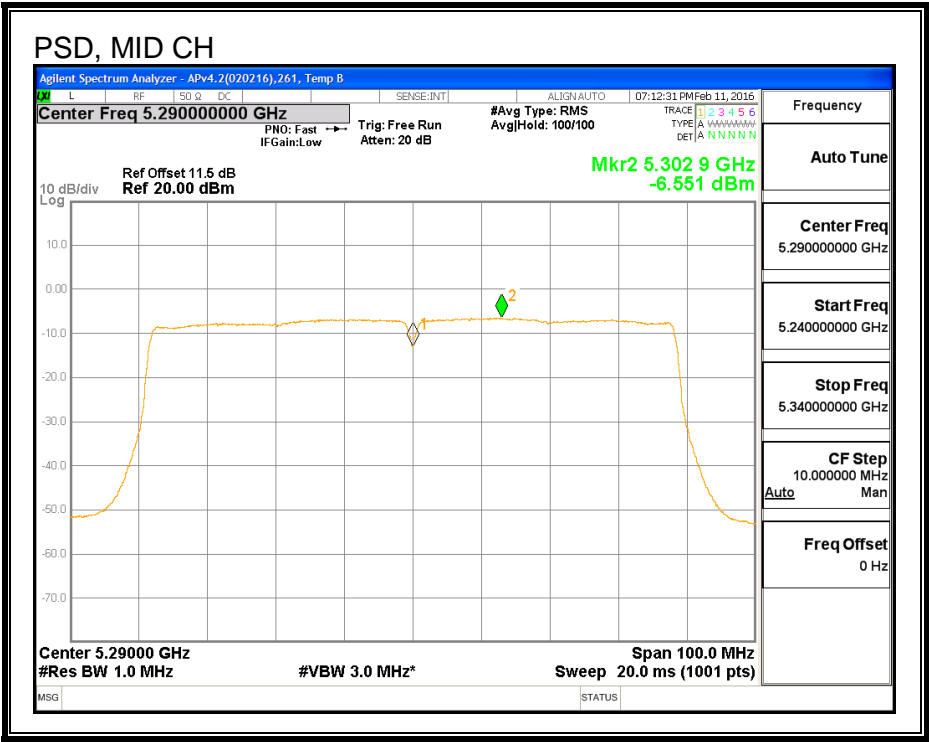
Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid | 5290 | 10.96 | 10.96 | 24.00 | -13.04 |

PPSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Mid | 5290 | -6.55 | -6.39 | 11.00 | -17.39 |

PSD



8.27. 802.11ac VHT80 CHAIN 1 MODE IN THE 5.3 GHz BAND

8.27.1. 26 dB BANDWIDTH

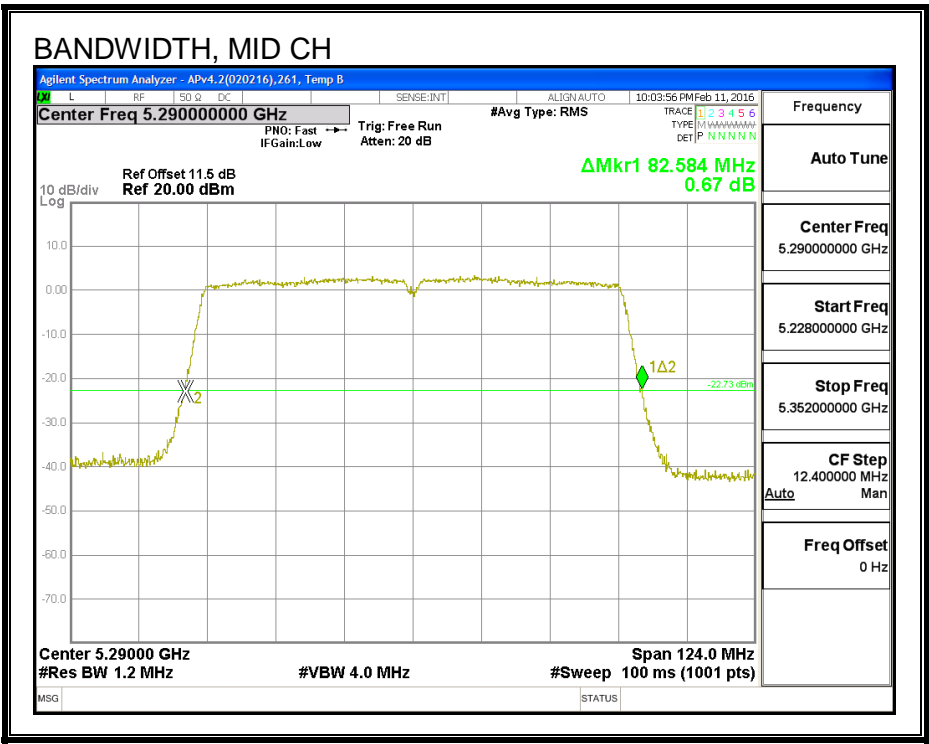
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---------|--------------------|--------------------------|
| Mid | 5290 | 82.58 |

26 dB BANDWIDTH



8.27.2. 99% BANDWIDTH

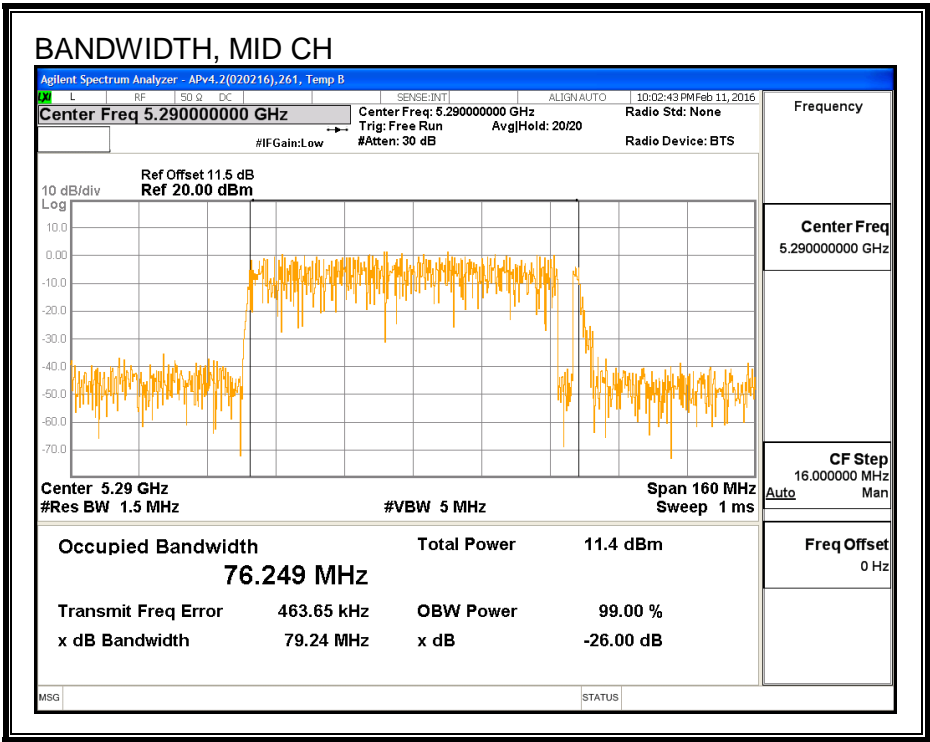
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|--------------------|------------------------|
| Mid | 5290 | 76.249 |

99% BANDWIDTH



8.27.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

| Channel | Frequency (MHz) | Power (dBm) |
|---------|--------------------|----------------|
| Mid | 5290 | 10.94 |

8.27.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

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 (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|------------------------------|-------------------------|-----------------------|
| Mid | 5290 | 82.58 | 76.249 | 3.33 | 24.00 | 11.00 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.16 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

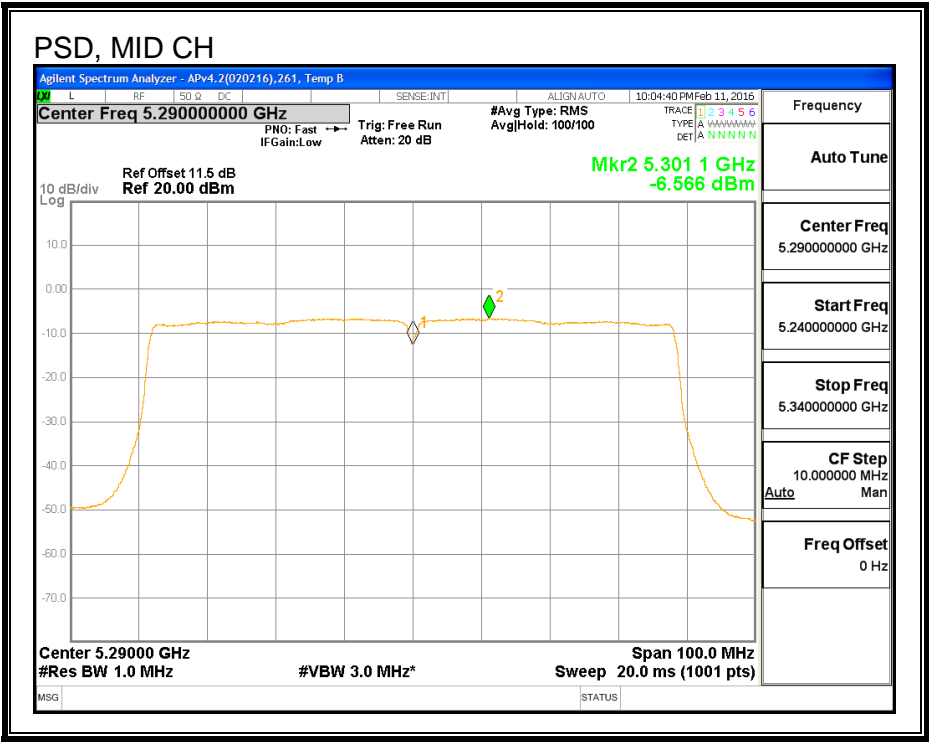
Output Power Results

| Channel | Frequency (MHz) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid | 5290 | 10.94 | 10.94 | 24.00 | -13.06 |

PPSD Results

| Channel | Frequency (MHz) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Mid | 5290 | -6.57 | -6.41 | 11.00 | -17.41 |

PSD



8.28. 802.11ac VHT80 2Tx CDD MODE IN THE 5.3 GHz BAND

8.28.1. 26 dB BANDWIDTH

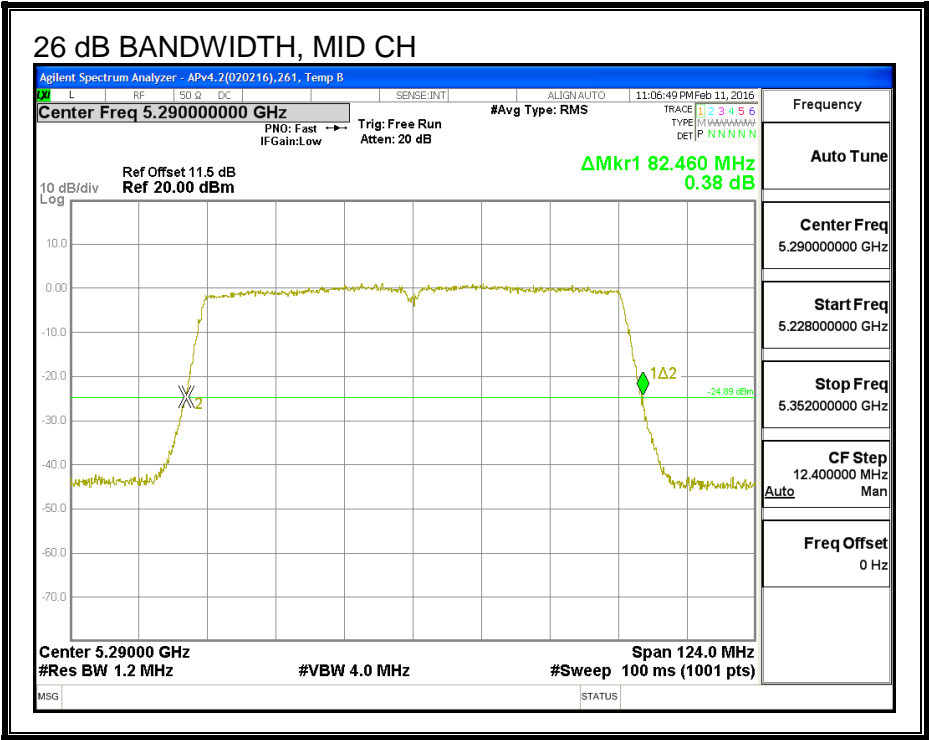
LIMITS

None; for reporting purposes only.

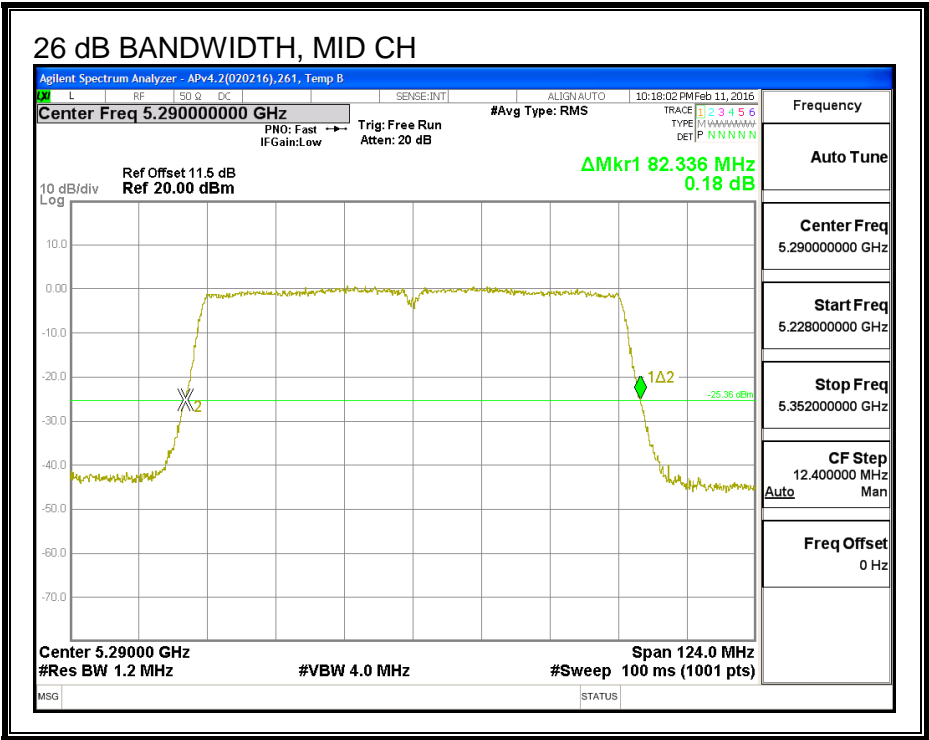
RESULTS

| Channel | Frequency (MHz) | 26 dB BW Chain 0 (MHz) | 26 dB BW Chain 1 (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Mid | 5290 | 82.46 | 82.34 |

26 DB BANDWIDTH, CHAIN 0



26 DB BANDWIDTH, CHAIN 1



8.28.2. 99% BANDWIDTH

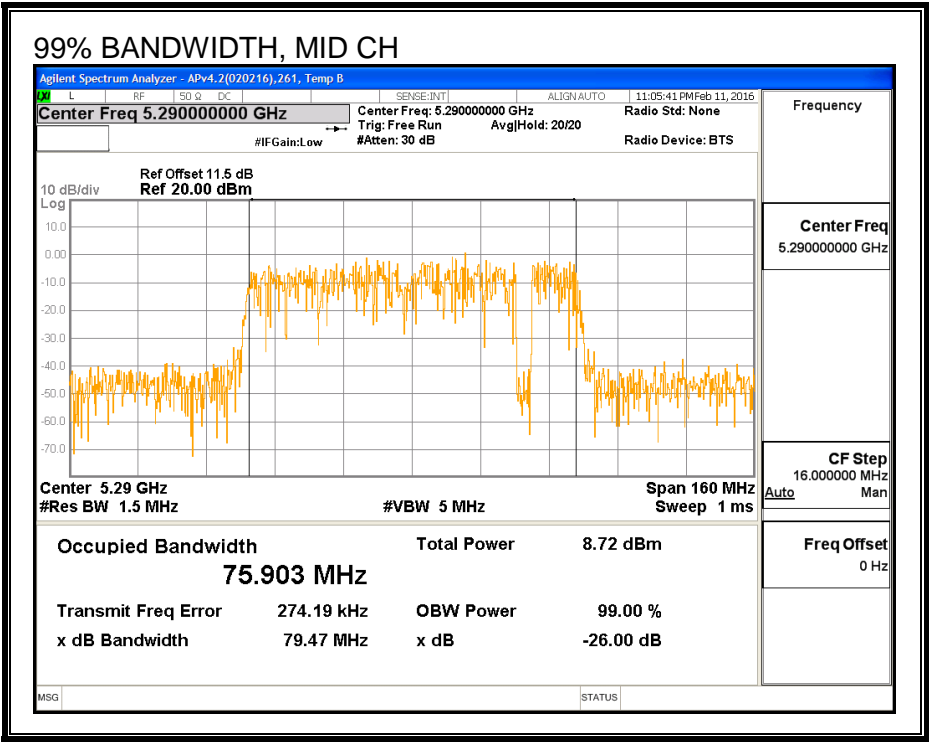
LIMITS

None; for reporting purposes only.

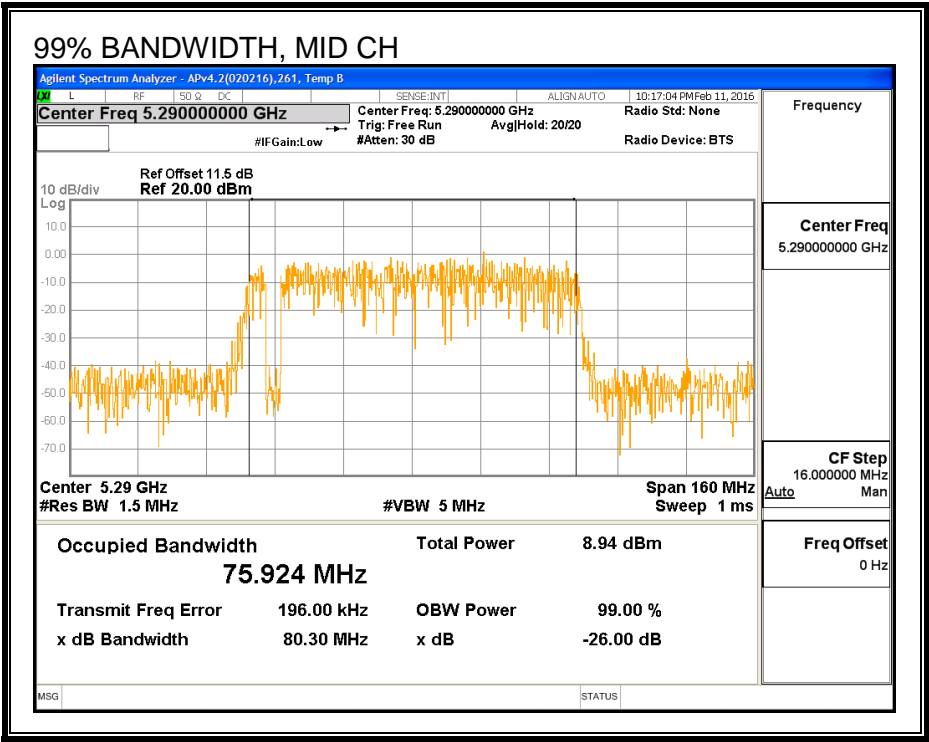
RESULTS

| Channel | Frequency (MHz) | 99% BW Chain 0 (MHz) | 99% BW Chain 1 (MHz) |
|---------|--------------------|----------------------------|----------------------------|
| Mid | 5290 | 75.903 | 75.924 |

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



8.28.3. 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 (MHz) | Chain 0 Power (dBm) | Chain 1 Power (dBm) | Total Power (dBm) |
|---------|--------------------|---------------------------|---------------------------|-------------------------|
| Mid | 5290 | 8.46 | 8.39 | 11.44 |

8.28.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

DIRECTIONAL ANTENNA GAIN

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

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.05 | 3.33 | 3.19 |

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

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.05 | 3.33 | 6.20 |

RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|---|---|-------------------------|-----------------------|
| Mid | 5290 | 82.46 | 75.92 | 3.19 | 6.20 | 24.00 | 10.80 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.21 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

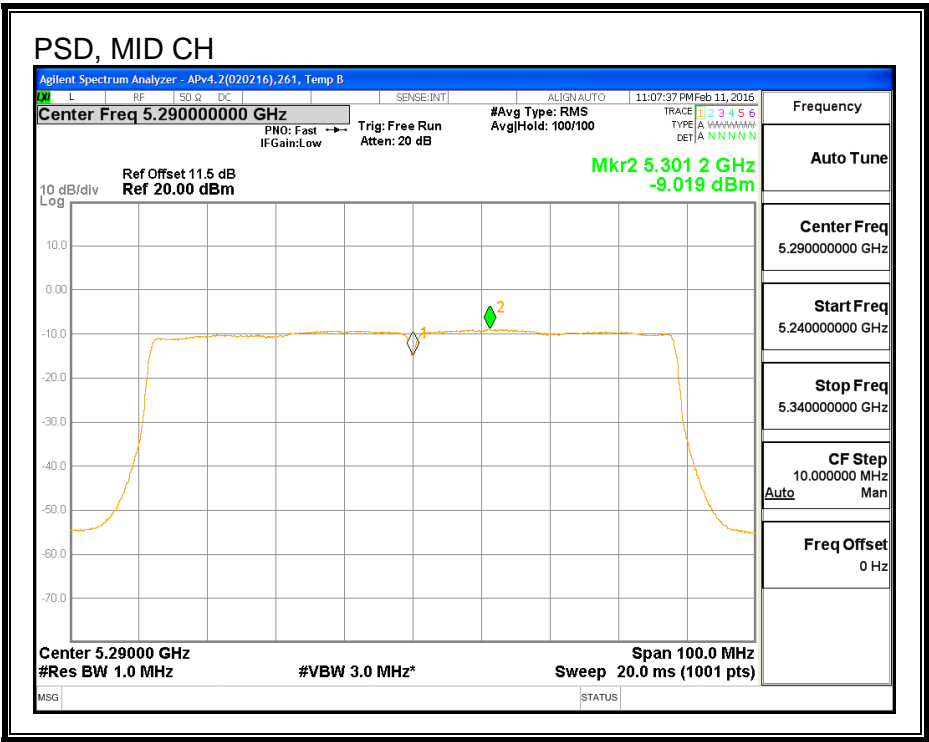
Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid | 5290 | 8.46 | 8.39 | 11.44 | 24.00 | -12.56 |

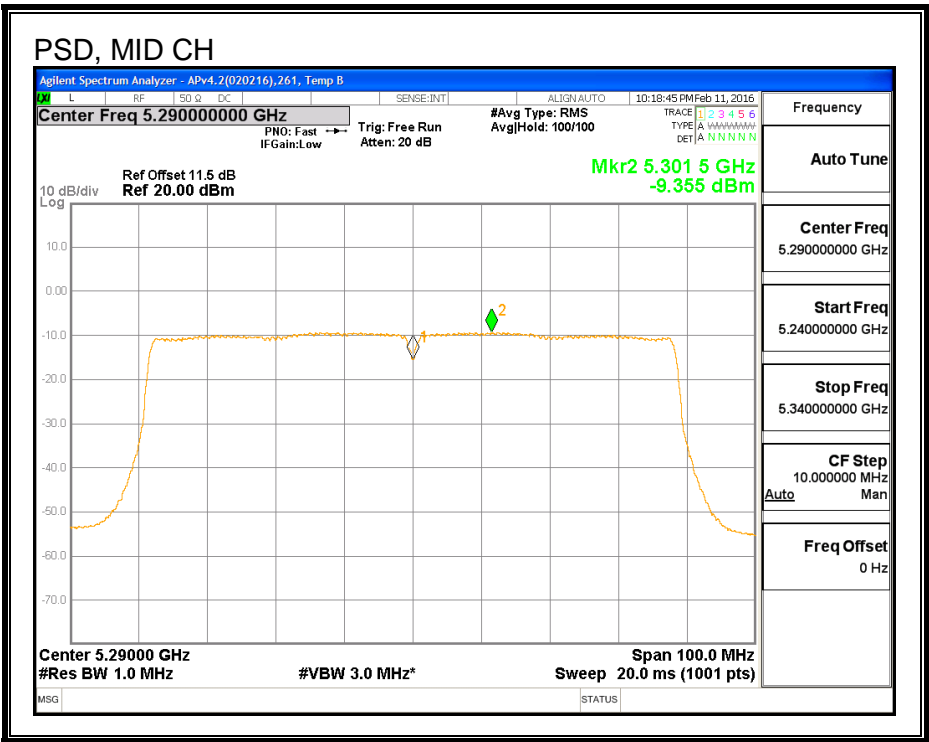
PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Mid | 5290 | -9.02 | -9.36 | -5.96 | 10.80 | -16.76 |

PSD, CHAIN 0



PSD, CHAIN 1



8.29. 802.11ac VHT80 2Tx STBC MODE IN THE 5.3 GHz BAND

8.29.1. 26 dB BANDWIDTH

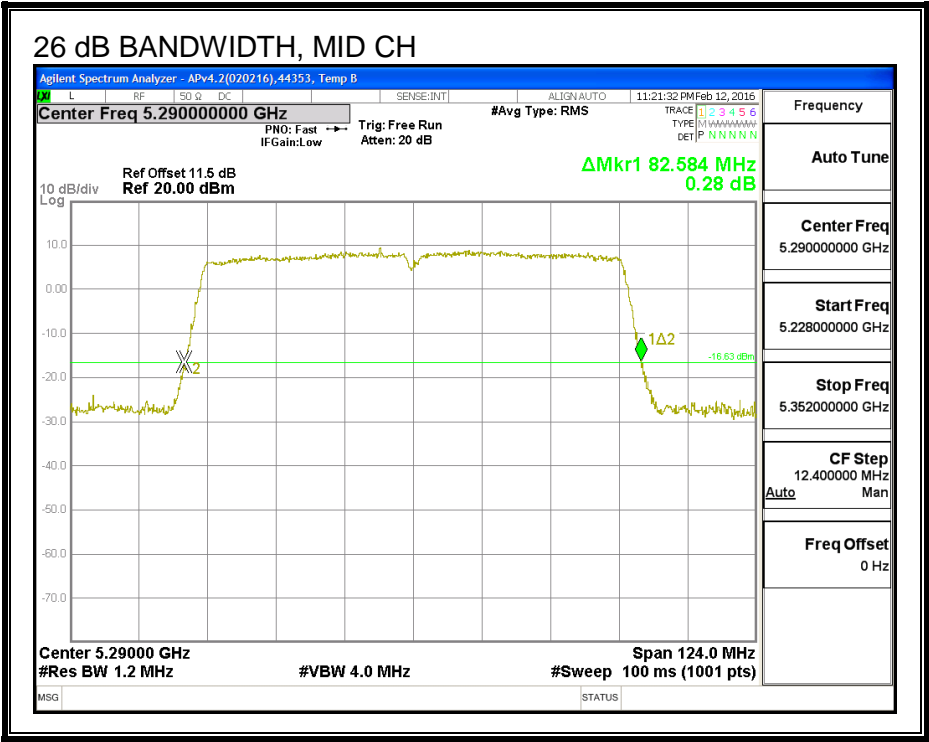
LIMITS

None; for reporting purposes only.

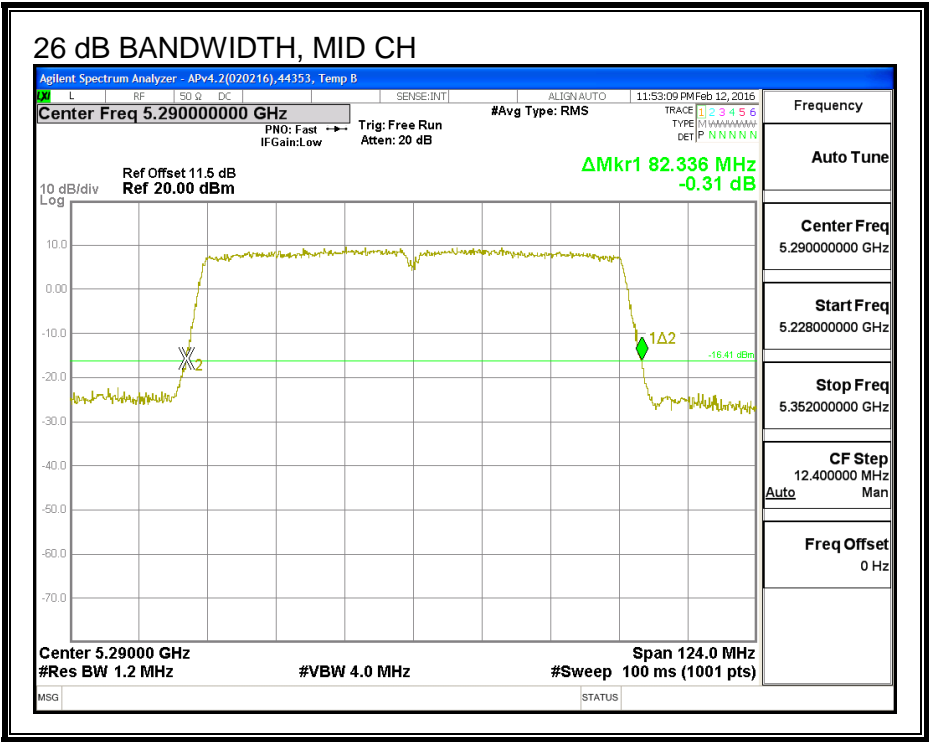
RESULTS

| Channel | Frequency (MHz) | 26 dB BW Chain 0 (MHz) | 26 dB BW Chain 1 (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Mid | 5290 | 82.58 | 82.34 |

26 DB BANDWIDTH, CHAIN 0



26 DB BANDWIDTH, CHAIN 1



8.29.2. 99% BANDWIDTH

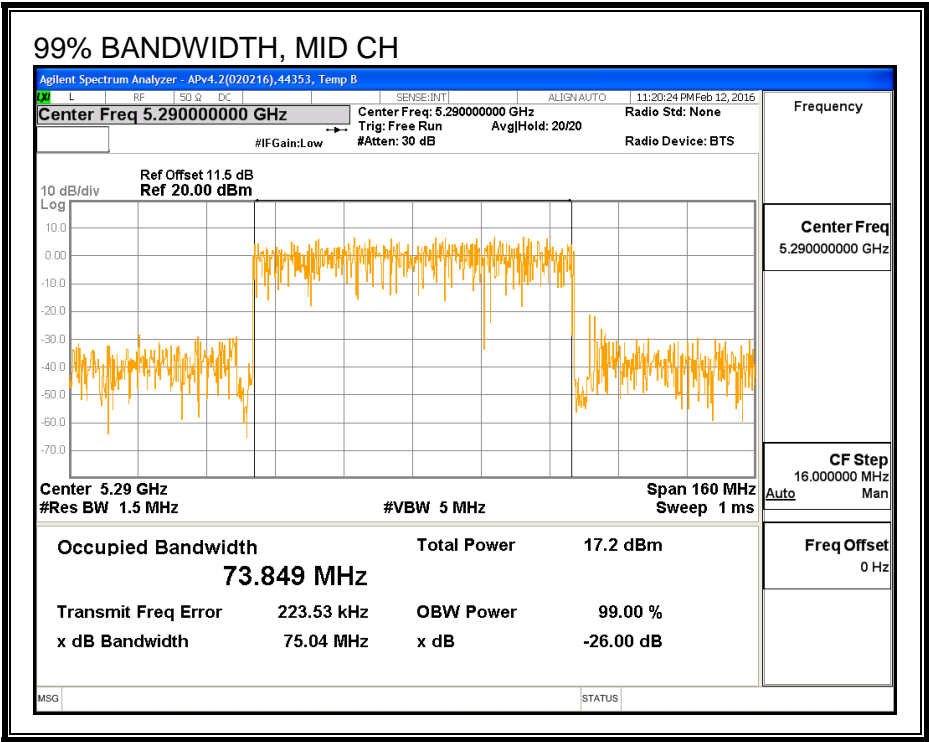
LIMITS

None; for reporting purposes only.

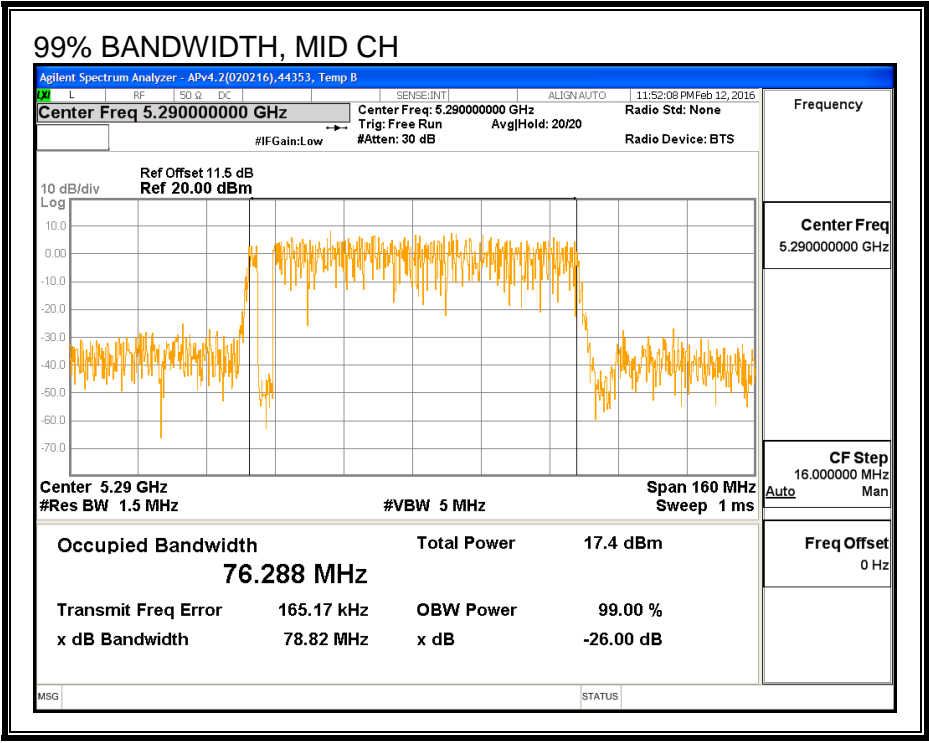
RESULTS

| Channel | Frequency (MHz) | 99% BW Chain 0 (MHz) | 99% BW Chain 1 (MHz) |
|---------|--------------------|----------------------------|----------------------------|
| Mid | 5290 | 73.849 | 76.288 |

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



8.29.3. 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 (MHz) | Chain 0 Power (dBm) | Chain 1 Power (dBm) | Total Power (dBm) |
|---------|--------------------|---------------------------|---------------------------|-------------------------|
| Mid | 5290 | 9.47 | 9.45 | 12.47 |

8.29.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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.

DIRECTIONAL ANTENNA GAIN

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

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.05 | 3.33 | 3.19 |

RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---------------------------|---|---|-------------------------|-----------------------|
| Mid | 5290 | 82.58 | 76.29 | 3.19 | 3.19 | 24.00 | 11.00 |

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

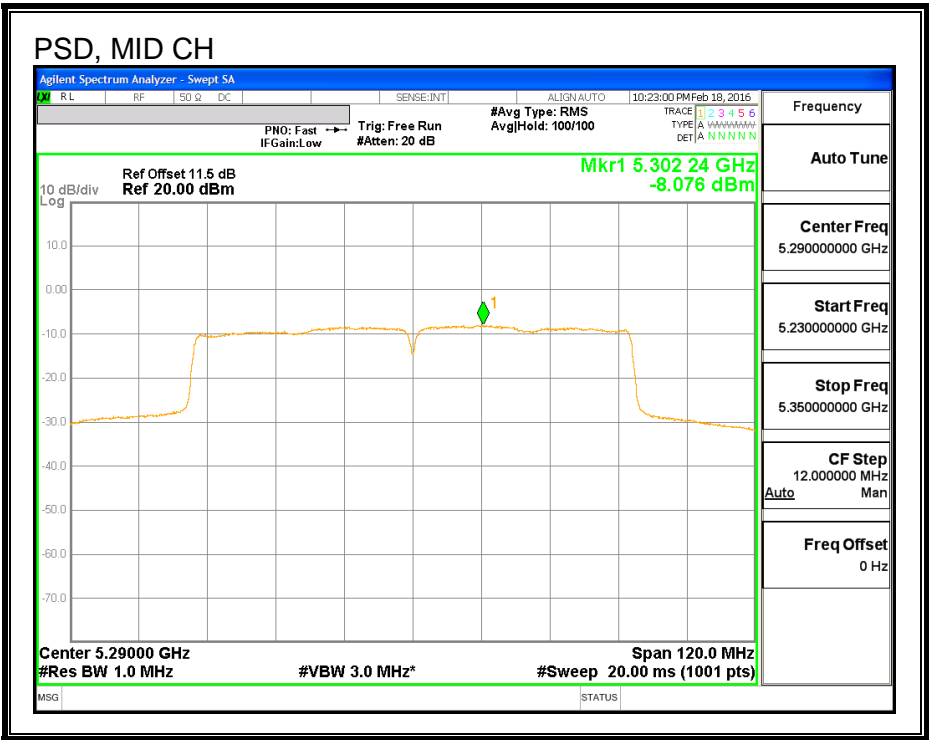
Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid | 5290 | 9.47 | 9.45 | 12.47 | 24.00 | -11.53 |

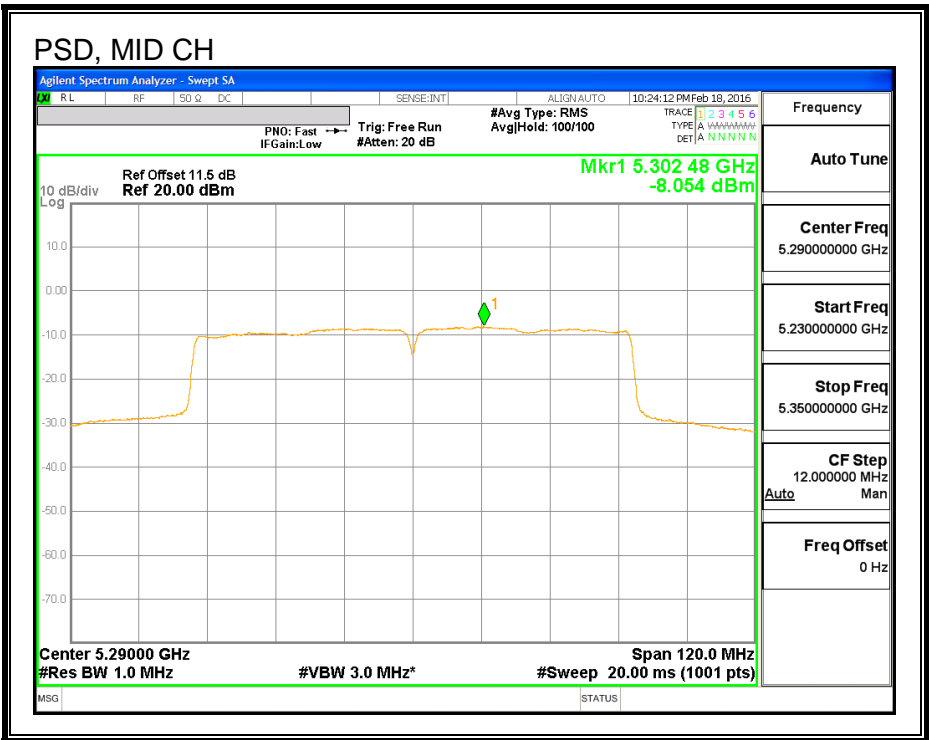
PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Mid | 5290 | -8.08 | -8.05 | -4.83 | 11.00 | -15.83 |

PSD, CHAIN 0



PSD, CHAIN 1



8.30. 802.11ac VHT80 2Tx BEAM FORMING MODE IN THE 5.3 GHz BAND

8.30.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB BW Chain 0 (MHz) | 26 dB BW Chain 1 (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Mid | 5290 | 81.25 | 81.25 |