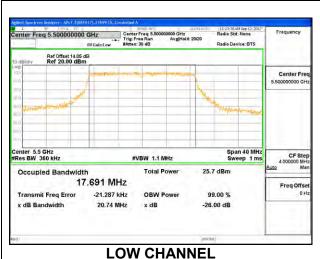
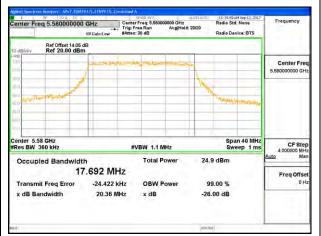
| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5500      | 17.6910       |
| Mid     | 5580      | 17.6920       |
| High    | 5700      | 17.6770       |
| 144     | 5720      | 17.6800       |





Center Freq: 5.3 Trig: Free Run

enter Freq 5.700000000 GHz

enter 5.7 GHz Res BW 360 kHz

Occupied Bandwidth

Transmit Freq Error

17.677 MHz

-28.624 kHz

19.92 MHz

Radio Std: None

Span 40 MHz Sweep 1 ms

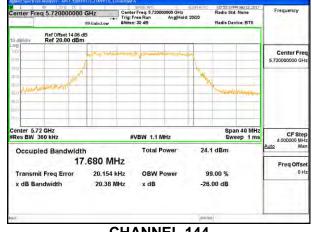
25.3 dBm

99.00 %

-26.00 dB



**MID CHANNEL** 



**HIGH CHANNEL** 

**#VBW 1.1 MHz** 

x dB

**Total Power** 

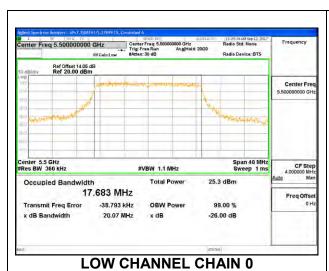
**CHANNEL 144** 

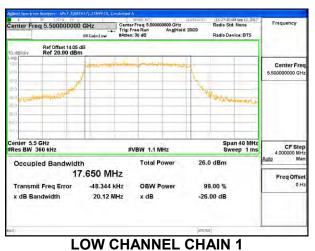
DATE: 10/25/2017

#### 2TX Chain 0 + Chain 1 CDD MODE

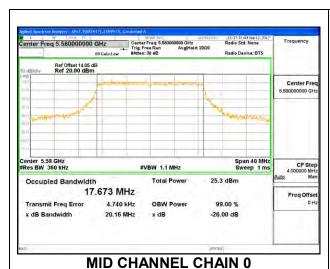
| Channel | Frequency | 99% Bandwidth | 99% Bandwidth |
|---------|-----------|---------------|---------------|
|         |           | Chain 0       | Chain 1       |
|         | (MHz)     | (MHz)         | (MHz)         |
| Low     | 5500      | 17.6830       | 17.6500       |
| Mid     | 5580      | 17.6730       | 17.7100       |
| High    | 5700      | 17.6800       | 17.5920       |
| 144     | 5720      | 17.6800       | 17.7710       |

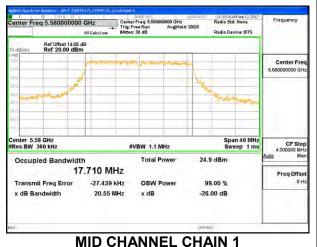
# **LOW CHANNEL**



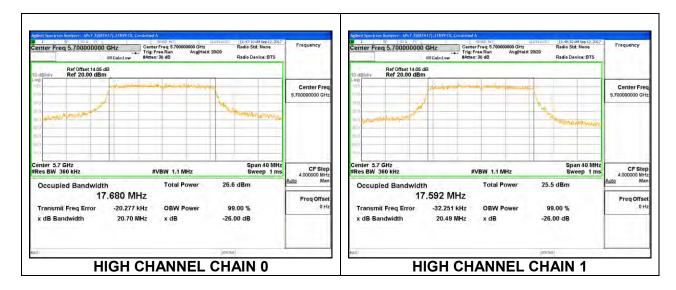


# **MID CHANNEL**





### **HIGH CHANNEL**



### **CHANNEL 144**

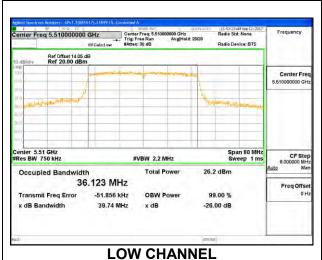


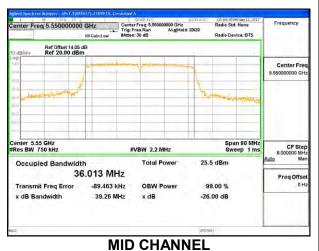
## 8.3.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

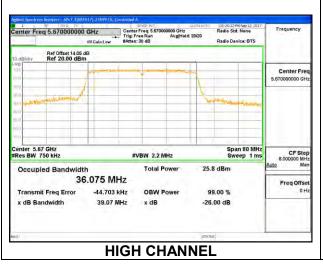
| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5510      | 36.0810       |
| Mid     | 5550      | 36.0910       |
| High    | 5670      | 36.1630       |
| 142     | 5710      | 35.9890       |

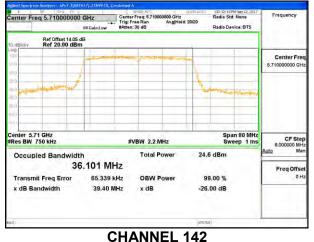


| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5510      | 36.1230       |
| Mid     | 5550      | 36.0130       |
| High    | 5670      | 36.0750       |
| 142     | 5710      | 36.1010       |





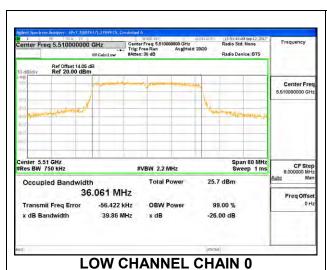


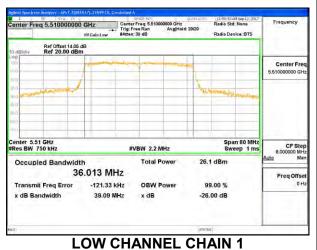


# 2TX Chain 0 + Chain 1 CDD MODE

| Channel | Frequency 99% Bandwidth |         | 99% Bandwidth |
|---------|-------------------------|---------|---------------|
|         |                         | Chain 0 | Chain 1       |
|         | (MHz)                   | (MHz)   | (MHz)         |
| Low     | 5510                    | 36.0610 | 36.0130       |
| Mid     | 5550                    | 36.1260 | 36.0480       |
| High    | 5670                    | 36.1770 | 36.1790       |
| 142     | 5710                    | 36.0340 | 35.9340       |

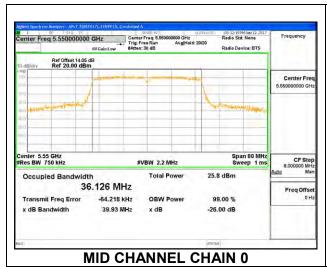
### **LOW CHANNEL**

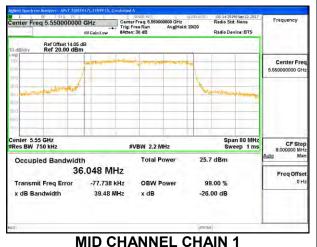




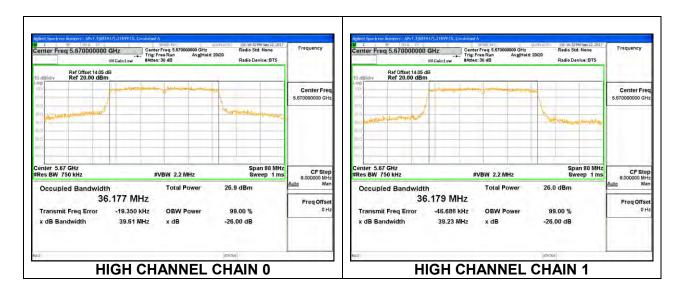
DATE: 10/25/2017

# **MID CHANNEL**





## **HIGH CHANNEL**

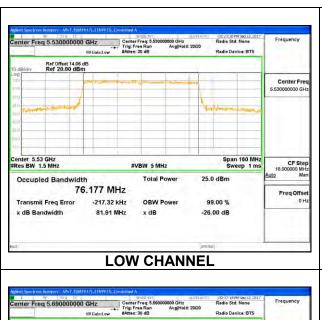


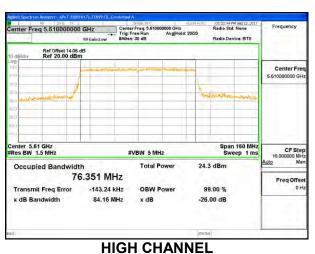
### **CHANNEL 142**



#### 8.3.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5530      | 76.1770       |
| High    | 5610      | 76.3510       |
| 138     | 5690      | 76.1180       |





Center Fre enter 5.69 GHz Res BW 1.5 MHz Span 160 MHz Sweep 1 ms CF Step 16.000000 MH; #VBW 5 MHz Occupied Bandwidth 76.118 MHz Transmit Freg Error -107.84 kHz OBW Power 99.00 % x dB Bandwidth 82.92 MHz x dB -26.00 dB **CHANNEL 138** 

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5530      | 76.1660       |
| High    | 5610      | 76.2580       |
| 138     | 5690      | 76.1450       |



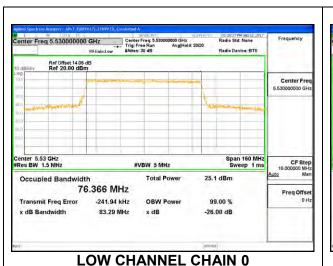
**CHANNEL 138** 

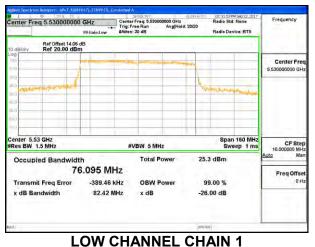
# DATE: 10/25/2017

## 2TX Chain 0 + Chain 1 CDD MODE

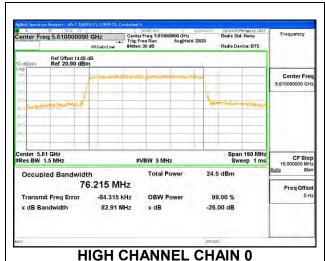
| Channel | Frequency | 99% Bandwidth | 99% Bandwidth |
|---------|-----------|---------------|---------------|
|         |           | Chain 0       | Chain 1       |
|         | (MHz)     | (MHz)         | (MHz)         |
| Low     | 5530      | 76.3660       | 76.0950       |
| High    | 5610      | 76.2150       | 76.0070       |
| 138     | 5690      | 76.1480       | 76.3250       |

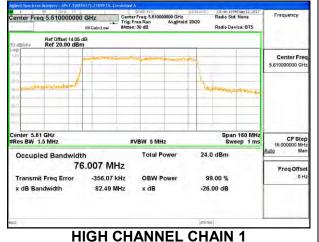
### **LOW CHANNEL**





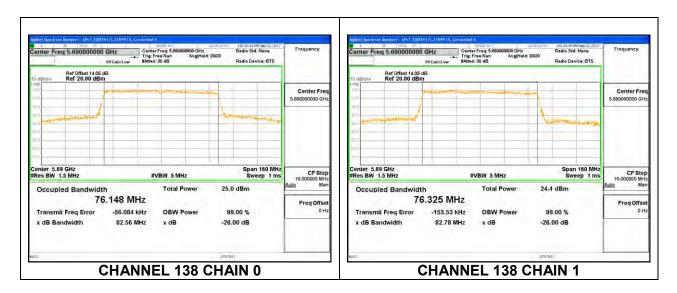
# **HIGH CHANNEL**





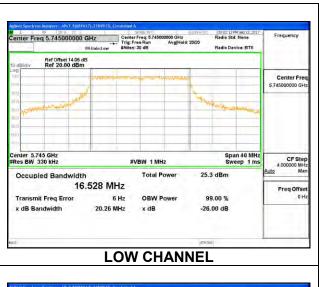
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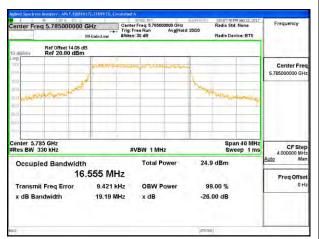
# **CHANNEL 138**

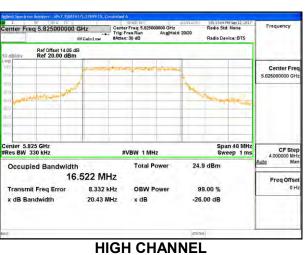


#### 8.3.13. 802.11a MODE IN THE 5.8 GHz BAND

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5745      | 16.5280       |
| Mid     | 5785      | 16.5550       |
| High    | 5825      | 16.5220       |

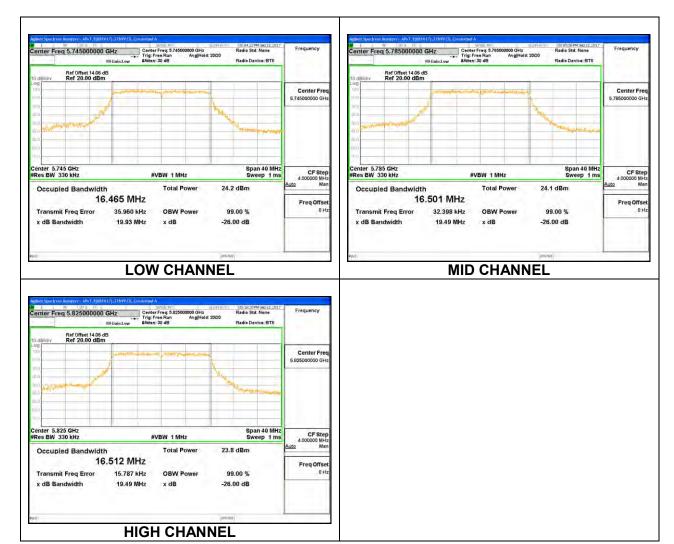






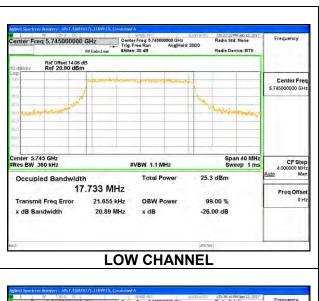
**MID CHANNEL** 

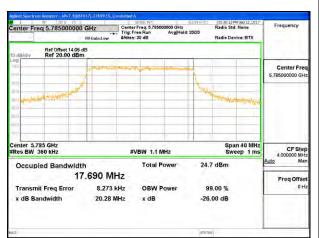
| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5745      | 16.4650       |
| Mid     | 5785      | 16.5010       |
| High    | 5825      | 16.5120       |

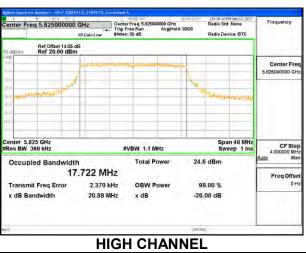


#### 8.3.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5745      | 17.7330       |
| Mid     | 5785      | 17.6900       |
| High    | 5825      | 17.7220       |







**MID CHANNEL** 

| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5745      | 17.6650       |
| Mid     | 5785      | 17.7100       |
| High    | 5825      | 17.6440       |

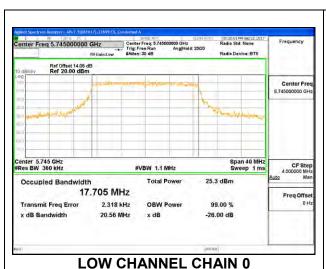


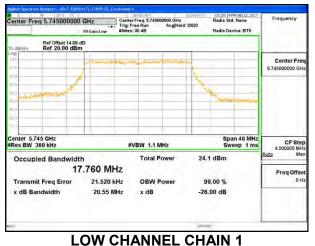
HIGH CHANNEL

## 2TX Chain 0 + Chain 1 CDD MODE

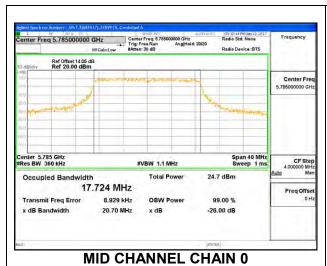
| Channel | Frequency | 99% Bandwidth | 99% Bandwidth |
|---------|-----------|---------------|---------------|
|         | Chain 0   |               | Chain 1       |
|         | (MHz)     | (MHz)         | (MHz)         |
| Low     | 5745      | 17.7050       | 17.7600       |
| Mid     | 5785      | 17.7240       | 17.7180       |
| High    | 5825      | 17.7010       | 17.6570       |

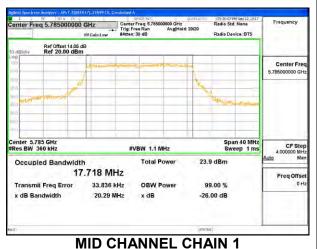
### **LOW CHANNEL**



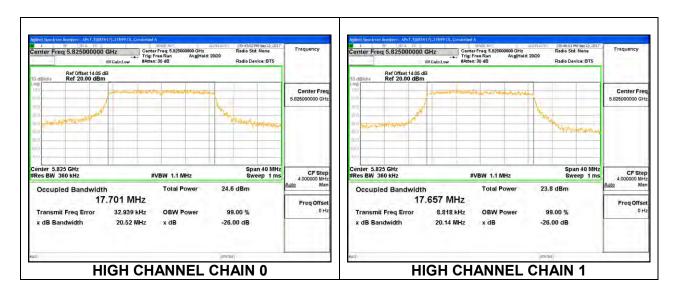


# MID CHANNEL



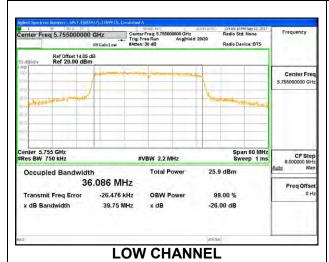


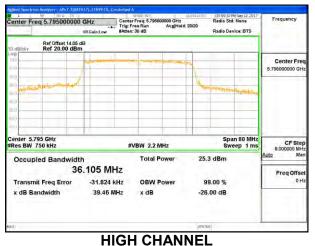
# **HIGH CHANNEL**



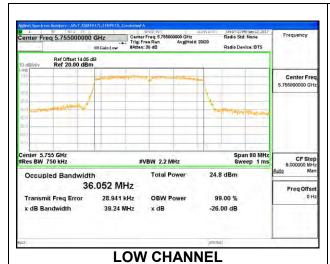
#### 8.3.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

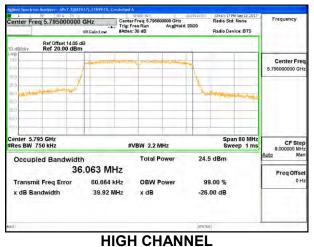
| Channel | Frequency | 99% Bandwidth |
|---------|-----------|---------------|
|         | (MHz)     | (MHz)         |
| Low     | 5755      | 36.0860       |
| High    | 5795      | 36.1050       |





| Channel Frequenc |       | 99% Bandwidth |
|------------------|-------|---------------|
|                  |       |               |
|                  | (MHz) | (MHz)         |
| Low              | 5755  | 36.0520       |
| High             | 5795  | 36.0630       |

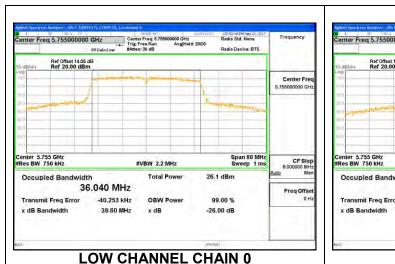


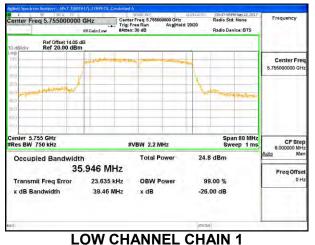


#### 2TX Chain 0 + Chain 1 CDD MODE

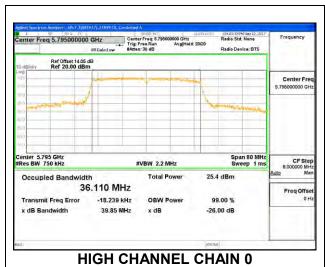
| Channel | Frequency | 99% Bandwidth | 99% Bandwidth |
|---------|-----------|---------------|---------------|
|         |           | Chain 0       | Chain 1       |
|         | (MHz)     | (MHz)         | (MHz)         |
| Low     | 5755      | 36.0400       | 35.9460       |
| High    | 5795      | 36.1100       | 36.0850       |

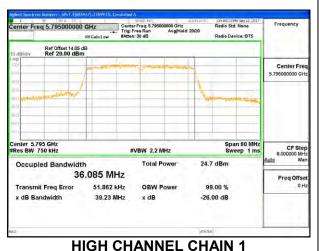
### **LOW CHANNEL**





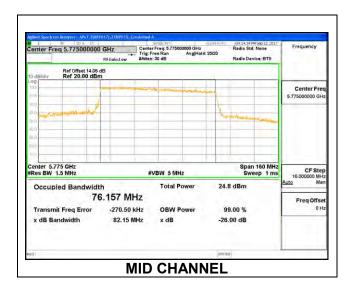
**HIGH CHANNEL** 



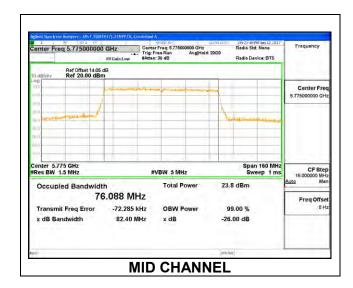


# 8.3.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

| Channel Frequency |          | 99% Bandwidth |  |
|-------------------|----------|---------------|--|
|                   | (MHz)    | (MHz)         |  |
|                   | (171112) | (1411 12)     |  |
| Mid               | 5775     | 76.1570       |  |



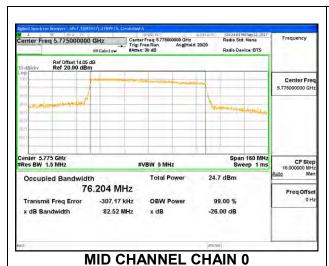
| Channel Frequenc |       | 99% Bandwidth |
|------------------|-------|---------------|
|                  | (MHz) | (MHz)         |
| Mid              | 5775  | 76.0880       |

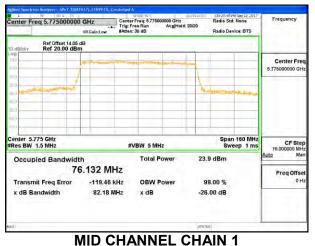


# 2TX Chain 0 + Chain 1 CDD MODE

| Channel | Frequency | 99% Bandwidth | 99% Bandwidth |
|---------|-----------|---------------|---------------|
|         | Chain 0   |               | Chain 1       |
|         | (MHz)     | (MHz)         | (MHz)         |
| Mid     | 5775      | 76.2040       | 76.1320       |

### MID CHANNEL





# 8.4. 6 dB BANDWIDTH

# **LIMITS**

FCC §15.407 (e)

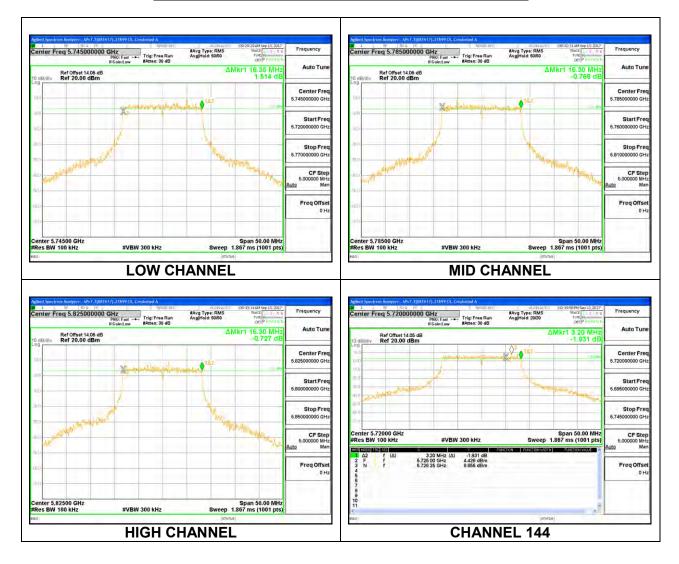
The minimum 6 dB bandwidth shall be at least 500 kHz.

DATE: 10/25/2017

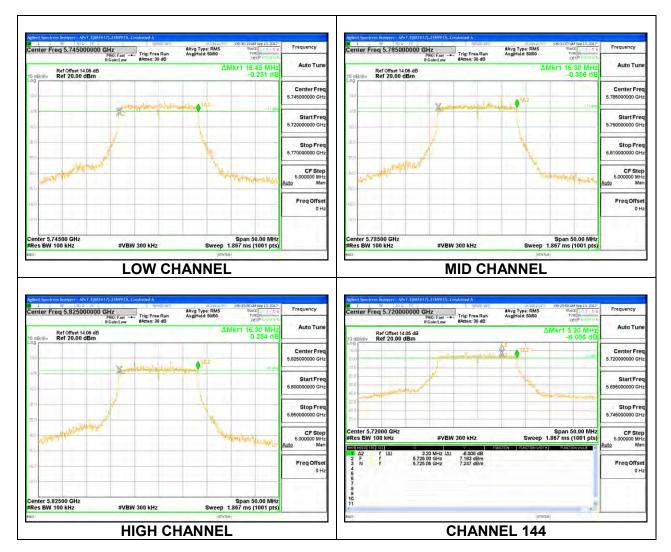
# **RESULTS**

### 8.4.1. 802.11a MODE IN THE 5.8 GHz BAND

| Channel Frequency 6 dB |       | 6 dB Bandwidth | Minimum Limit |
|------------------------|-------|----------------|---------------|
|                        | (MHz) | (MHz)          | (MHz)         |
| Low                    | 5745  | 16.3500        | 0.5           |
| Mid                    | 5785  | 16.3000        | 0.5           |
| High                   | 5825  | 16.3000        | 0.5           |
| 144                    | 5720  | 3.2000         | 0.5           |

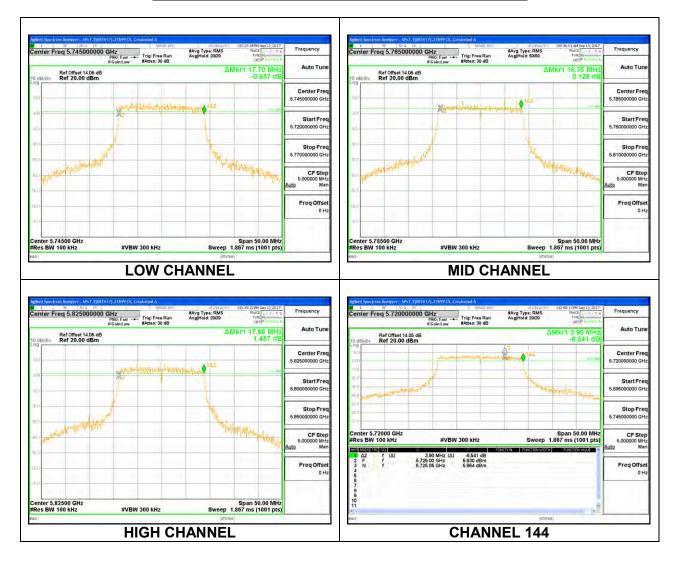


| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Low     | 5745      | 16.4500        | 0.5           |
| Mid     | 5785      | 16.3000        | 0.5           |
| High    | 5825      | 16.3000        | 0.5           |
| 144     | 5720      | 3.2000         | 0.5           |

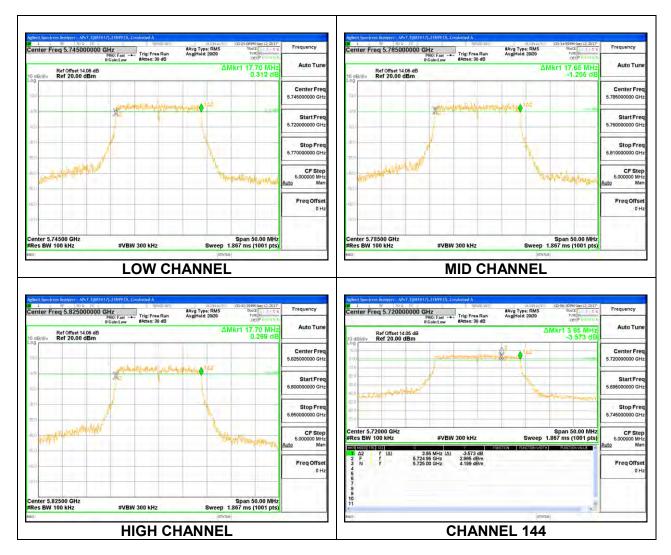


### 8.4.2. 802.11n HT20 MODE IN THE 5.8 GHz BAND

| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Low     | 5745      | 17.7000        | 0.5           |
| Mid     | 5785      | 16.7500        | 0.5           |
| High    | 5825      | 17.6500        | 0.5           |
| 144     | 5720      | 3.9000         | 0.5           |



| Channel | Frequency 6 dB Bandwidt |         | Minimum Limit |
|---------|-------------------------|---------|---------------|
|         | (MHz)                   | (MHz)   | (MHz)         |
| Low     | 5745                    | 17.7000 | 0.5           |
| Mid     | 5785                    | 17.6500 | 0.5           |
| High    | 5825                    | 17.7000 | 0.5           |
| 144     | 5720                    | 3.9500  | 0.5           |

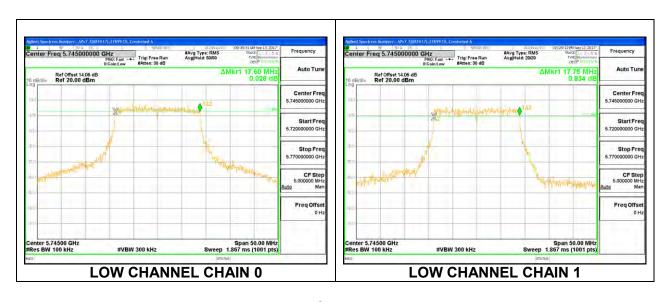


#### 2TX Chain 0 + Chain 1 CDD MODE

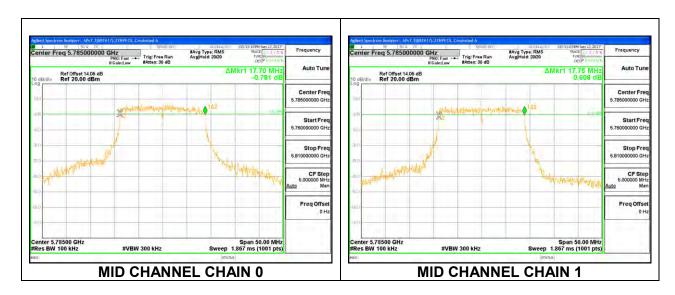
| Channel | Frequency | 6 dB BW | 6 dB BW | Minimum |
|---------|-----------|---------|---------|---------|
|         |           | Chain 0 | Chain 1 | Limit   |
|         | (MHz)     | (MHz)   | (MHz)   | (MHz)   |
| Low     | 5745      | 17.6000 | 17.7500 | 0.5     |
| Mid     | 5785      | 17.7000 | 17.7500 | 0.5     |
| High    | 5825      | 17.6500 | 17.7000 | 0.5     |
| 144     | 5720      | 3.9500  | 3.8500  | 0.5     |

DATE: 10/25/2017

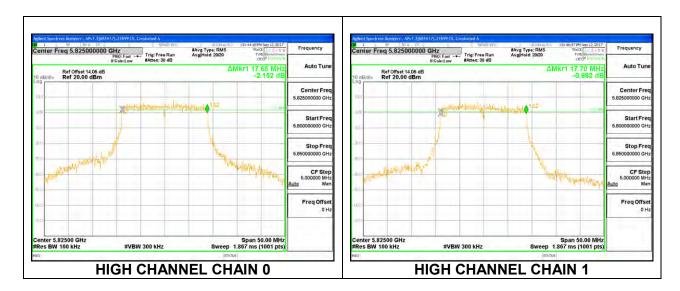
# **LOW CHANNEL**



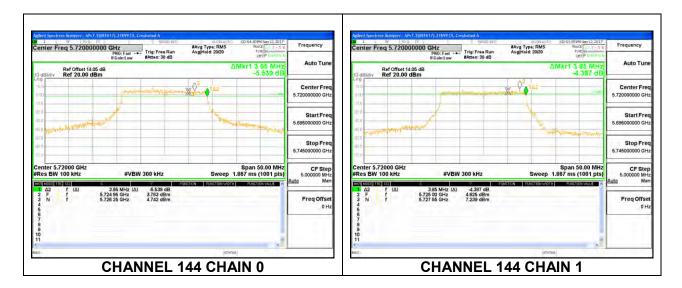
### **MID CHANNEL**



# **HIGH CHANNEL**

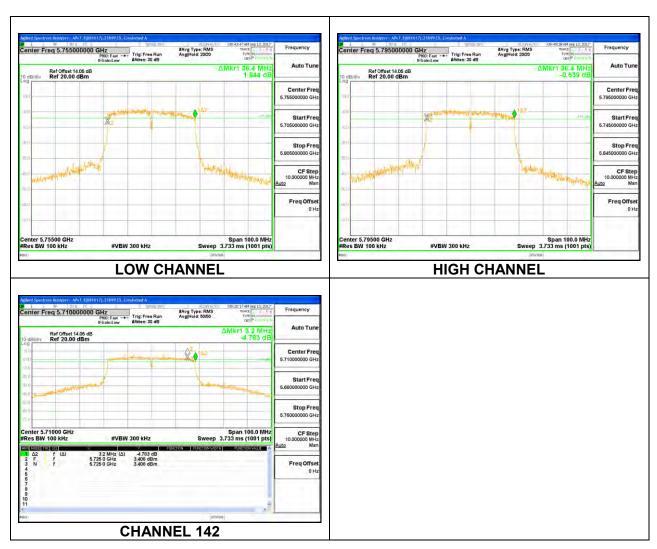


# **CHANNEL 144**

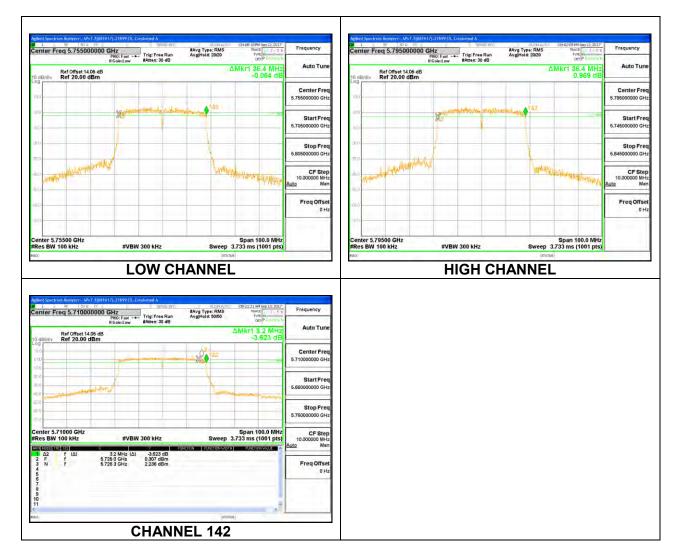


## 8.4.3. 802.11n HT40 MODE IN THE 5.8 GHz BAND

| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Low     | 5755      | 36.4000        | 0.5           |
| High    | 5795      | 36.4000        | 0.5           |
| 142     | 5710      | 3.2000         | 0.5           |



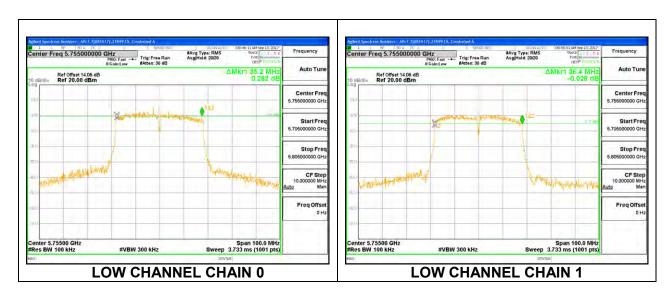
| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Low     | 5755      | 36.4000        | 0.5           |
| High    | 5795      | 36.4000        | 0.5           |
| 142     | 5710      | 3.2000         | 0.5           |



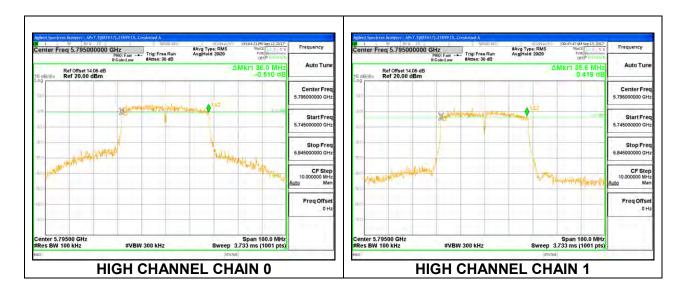
#### 2TX Chain 0 + Chain 1 CDD MODE

| Channel | Frequency | 6 dB BW | 6 dB BW | Minimum |
|---------|-----------|---------|---------|---------|
|         |           | Chain 0 | Chain 1 | Limit   |
|         | (MHz)     | (MHz)   | (MHz)   | (MHz)   |
| Low     | 5755      | 35.2000 | 36.4000 | 0.5     |
| High    | 5795      | 36.0000 | 35.6000 | 0.5     |
| 142     | 5710      | 3.2000  | 3.3000  | 0.5     |

## **LOW CHANNEL**



#### **HIGH CHANNEL**

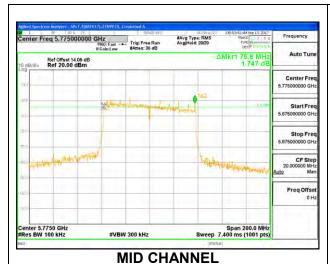


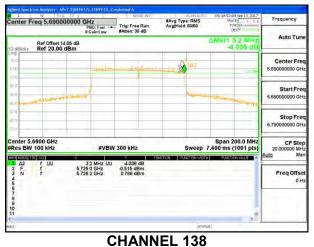
# **CHANNEL 142**



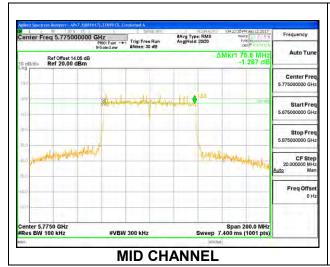
# 8.4.4. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

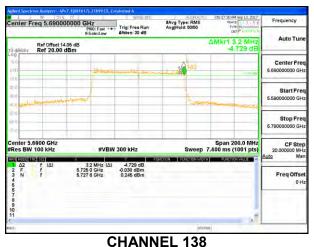
| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Mid     | 5775      | 75.8000        | 0.5           |
| 138     | 5690      | 3.2000         | 0.5           |





| Channel | Frequency | 6 dB Bandwidth | Minimum Limit |
|---------|-----------|----------------|---------------|
|         | (MHz)     | (MHz)          | (MHz)         |
| Mid     | 5775      | 75.6000        | 0.5           |
| 138     | 5690      | 3.2000         | 0.5           |

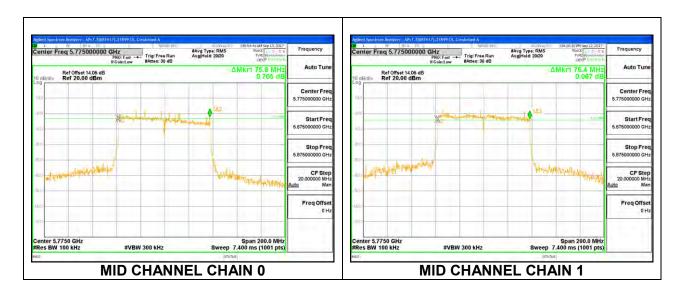




## 2TX Chain 0 + Chain 1 CDD MODE

| Channel | Frequency | 6 dB BW | 6 dB BW | Minimum |
|---------|-----------|---------|---------|---------|
|         |           | Chain 0 | Chain 1 | Limit   |
|         | (MHz)     | (MHz)   | (MHz)   | (MHz)   |
| Mid     | 5775      | 75.8000 | 76.4000 | 0.5     |
| 138     | 5690      | 3.2000  | 3.2000  | 0.5     |

## **MID CHANNEL**



## **CHANNEL 138**



#### 8.5. OUTPUT POWER AND PSD

## **LIMITS**

## FCC §15.407

#### Band 5.15-5.25 GHz

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

DATE: 10/25/2017

## Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands 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 megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

#### 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

## **TEST PROCEDURE**

The measurement method used for output power is KDB 789033 D02 v01r04, Section E.3.b (Method PM-G) and for straddles channels KDB 789033 D02 v01r04, Section E.2.b (Method SA-1) was used.

DATE: 10/25/2017

The measurement method used for power spectral density is KDB 789033 D02 v01r04, Section F

REPORT NO: 11836945-E4V2 DATE: 10/25/2017 FCC ID: A4R-H0B

## **4.9DIRECTIONAL ANTENNA GAIN**

#### For 1 TX:

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

#### For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

|       | Chain 0 | Chain 1 | Uncorrelated Chains | Correlated Chains |
|-------|---------|---------|---------------------|-------------------|
|       | Antenna | Antenna | Directional         | Directional       |
| Band  | Gain    | Gain    | Gain                | Gain              |
| (GHz) | (dBi)   | (dBi)   | (dBi)               | (dBi)             |
| 5.2   | 4.80    | 4.90    | 4.85                | 7.86              |
| 5.3   | 5       | 4.9     | 4.95                | 7.96              |
| 5.6   | 5.5     | 4.2     | 4.90                | 7.88              |
| 5.8   | 5.5     | 4.2     | 4.90                | 7.88              |

## **RESULTS**

## 8.5.1. 802.11a MODE IN THE 5.2 GHz BAND

## 1TX Chain 0

## **Antenna Gain and Limits**

| Channel | Frequency | Directional | Power | PSD        |
|---------|-----------|-------------|-------|------------|
|         |           | Gain        | Limit | Limit      |
|         |           |             |       |            |
|         | (MHz)     | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5180      | 4.80        | 24.00 | 11.00      |
| Mid     | 5200      | 4.80        | 24.00 | 11.00      |
| High    | 5240      | 4.80        | 24.00 | 11.00      |

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

#### **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5180      | 19.17   | 19.17  | 24.00 | -4.83  |
| Mid     | 5200      | 20.78   | 20.78  | 24.00 | -3.22  |
| High    | 5240      | 20.41   | 20.41  | 24.00 | -3.59  |

| Channel | Frequency | Chain 0    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5180      | 10.51      | 10.63      | 11.00      | -0.37  |
| Mid     | 5200      | 10.61      | 10.73      | 11.00      | -0.27  |
| High    | 5240      | 10.24      | 10.36      | 11.00      | -0.64  |



#### **Antenna Gain and Limits**

| Channel | Frequency | Directional | Power | PSD        |
|---------|-----------|-------------|-------|------------|
|         |           | Gain        | Limit | Limit      |
|         | (MHz)     | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5180      | 4.90        | 24.00 | 11.00      |
| Mid     | 5200      | 4.90        | 24.00 | 11.00      |
| High    | 5240      | 4.90        | 24.00 | 11.00      |

| Duty Cycle CF (dB) | 0.14 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

## **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         | quono,    | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5180      | 19.85   | 19.85  | 24.00 | -4.15  |
| Mid     | 5200      | 21.50   | 21.50  | 24.00 | -2.50  |
| High    | 5240      | 20.74   | 20.74  | 24.00 | -3.26  |

#### **PSD Results**

| Channel | Frequency | Chain 0    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5180      | 10.72      | 10.86      | 11.00      | -0.14  |
| Mid     | 5200      | 10.56      | 10.70      | 11.00      | -0.30  |
|         |           |            |            |            |        |



## 8.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

## 1TX Chain 0

#### **Antenna Gain and Limits**

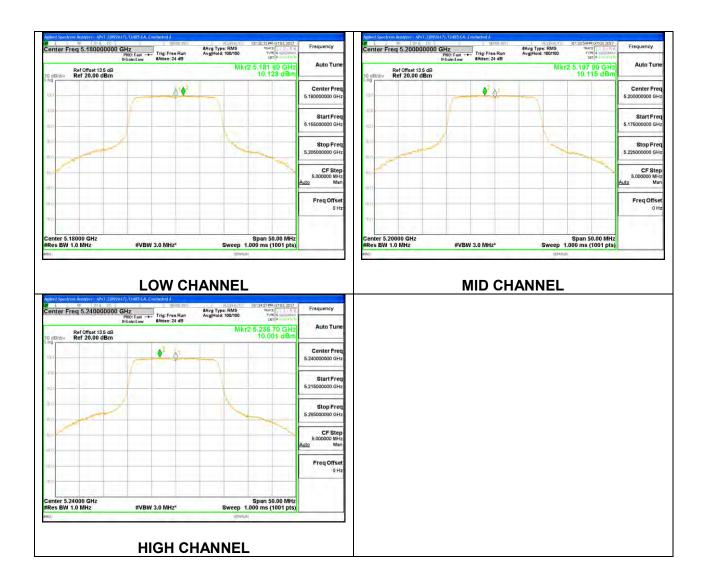
| Channel | Frequency | Directional | Power | PSD        |
|---------|-----------|-------------|-------|------------|
|         |           | Gain        | Limit | Limit      |
|         |           |             |       |            |
|         | (MHz)     | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5180      | 4.80        | 24.00 | 11.00      |
| Mid     | 5200      | 4.80        | 24.00 | 11.00      |
| High    | 5240      | 4.80        | 24.00 | 11.00      |

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

## **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5180      | 19.02   | 19.02  | 24.00 | -4.98  |
| Mid     | 5200      | 20.51   | 20.51  | 24.00 | -3.49  |
| High    | 5240      | 20.25   | 20.25  | 24.00 | -3.75  |

| Channel | Frequency | Chain 0    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5180      | 10.12      | 10.12      | 11.00      | -0.88  |
| Mid     | 5200      | 10.12      | 10.12      | 11.00      | -0.89  |
| High    | 5240      | 10.00      | 10.00      | 11.00      | -1.00  |



#### **Antenna Gain and Limits**

| Channel | Frequency | Directional | Power | PSD        |
|---------|-----------|-------------|-------|------------|
|         |           | Gain        | Limit | Limit      |
|         |           |             |       |            |
|         | (MHz)     | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5180      | 4.90        | 24.00 | 11.00      |
| Mid     | 5200      | 4.90        | 24.00 | 11.00      |
| High    | 5240      | 4.90        | 24.00 | 11.00      |

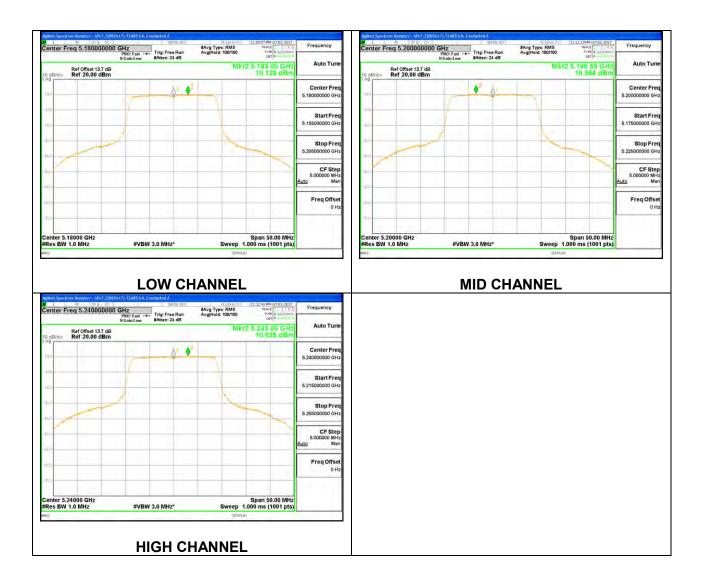
| Duty Cycle CF (dB) 0.00 Included in Calculations of Corr'd PSD |
|--|
|--|

## **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5180      | 19.65   | 19.65  | 24.00 | -4.35  |
| Mid     | 5200      | 21.32   | 21.32  | 24.00 | -2.68  |
| High    | 5240      | 21.54   | 21.54  | 24.00 | -2.46  |

#### **PSD Results**

| Channel | Frequency | Chain 0    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5180      | 10.13      | 10.13      | 11.00      | -0.87  |
| Mid     | 5200      | 10.56      | 10.56      | 11.00      | -0.44  |
| High    | 5240      | 10.64      | 10.64      | 11.00      | -0.37  |



## 2TX Chain 0 + Chain 1 CDD MODE

#### **Antenna Gain and Limits**

| Channel | Frequency | Directional | Directional | Power | PSD        |
|---------|-----------|-------------|-------------|-------|------------|
|         |           | Gain        | Gain        | Limit | Limit      |
|         |           | for Power   | for PSD     |       |            |
|         | (MHz)     | (dBi)       | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5180      | 4.85        | 7.86        | 24.00 | 9.14       |
| Mid     | 5200      | 4.85        | 7.86        | 24.00 | 9.14       |
| High    | 5240      | 4.85        | 7.86        | 24.00 | 9.14       |

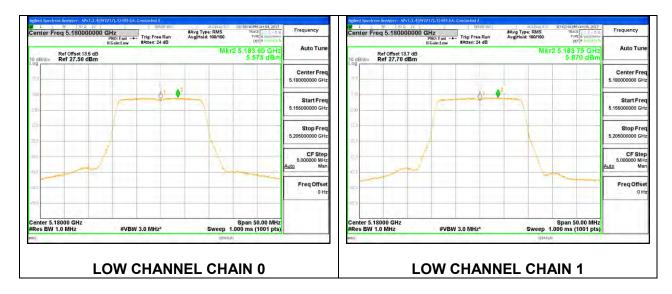
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

#### **Output Power Results**

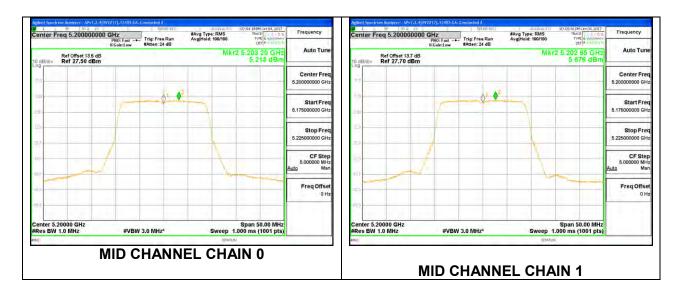
| Channel | Frequency | Chain 0 | Chain 1 | Total  | Power | Power  |  |
|---------|-----------|---------|---------|--------|-------|--------|--|
|         |           | Meas    | Meas    | Corr'd | Limit | Margin |  |
|         |           | Power   | Power   | Power  |       |        |  |
|         | (MHz)     | (dBm)   | (dBm)   | (dBm)  | (dBm) | (dB)   |  |
| Low     | 5180      | 16.17   | 16.37   | 19.28  | 24.00 | -4.72  |  |
| Mid     | 5200      | 15.74   | 16.06   | 18.91  | 24.00 | -5.09  |  |
| High    | 5240      | 15.51   | 16.22   | 18.89  | 24.00 | -5.11  |  |

| Channel | Frequency | Chain 0    | Chain 1    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|------------|--------|
|         |           | Meas       | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5180      | 5.57       | 5.87       | 8.73       | 9.14       | -0.41  |
| Mid     | 5200      | 5.21       | 5.68       | 8.46       | 9.14       | -0.68  |
| High    | 5240      | 4.98       | 5.77       | 8.40       | 9.14       | -0.74  |

#### **LOW CHANNEL**

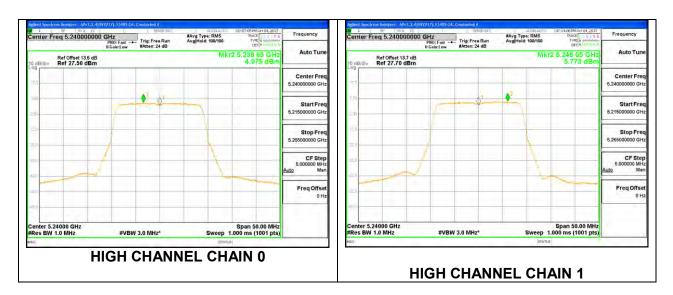


#### MID CHANNEL



## DATE: 10/25/2017

## **HIGH CHANNEL**



## 8.5.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

## 1TX Chain 0

#### **Antenna Gain and Limits**

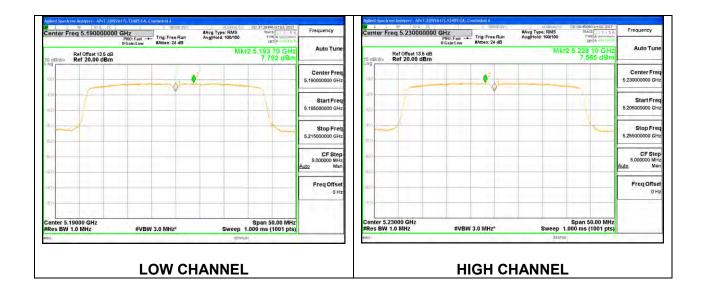
| Channel | Frequency | Directional | Power | PSD        |
|---------|-----------|-------------|-------|------------|
|         |           | Gain        | Limit | Limit      |
|         |           | for Power   |       |            |
|         | (MHz)     | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5190      | 4.80        | 24.00 | 11.00      |
| High    | 5230      | 4.80        | 24.00 | 11.00      |

| Duty Cycle CF (dB) | 0.17 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

#### **Output Power Results**

| Channel | Frequency              | Chain 0               | Total                 | Power          | Power                  |
|---------|------------------------|-----------------------|-----------------------|----------------|------------------------|
|         |                        | Meas                  | Corr'd                | Limit          | Margin                 |
|         |                        | Power                 | Power                 |                |                        |
|         |                        |                       |                       |                |                        |
|         | (MHz)                  | (dBm)                 | (dBm)                 | (dBm)          | (dB)                   |
| Low     | ( <b>MHz</b> )<br>5190 | <b>(dBm)</b><br>16.01 | <b>(dBm)</b><br>16.01 | (dBm)<br>24.00 | ( <b>dB</b> )<br>-7.99 |

| Channel | Frequency              | Chain 0                   | Total              | PSD                 | PSD                    |
|---------|------------------------|---------------------------|--------------------|---------------------|------------------------|
|         |                        | Meas                      | Meas Corr'd        |                     | Margin                 |
|         |                        | PSD                       | PSD                |                     |                        |
|         |                        |                           |                    |                     |                        |
|         | (MHz)                  | (dBm/1MHz)                | (dBm/1MHz)         | (dBm/1MHz)          | (dB)                   |
| Low     | ( <b>MHz</b> )<br>5190 | <b>(dBm/1MHz)</b><br>7.79 | (dBm/1MHz)<br>7.96 | (dBm/1MHz)<br>11.00 | ( <b>dB</b> )<br>-3.04 |



#### **Antenna Gain and Limits**

| Channel | Frequency | Directional | Power | PSD            |
|---------|-----------|-------------|-------|----------------|
|         |           | Gain        | Limit | Limit          |
|         |           | for Power   |       |                |
|         | (8.51.1.) | (15)        | (-ID) | (alD (4 BALL-) |
|         | (MHz)     | (dBi)       | (dBm) | (dBm/1MHz)     |
| Low     | 5190      | 4.90        | 24.00 | 11.00          |

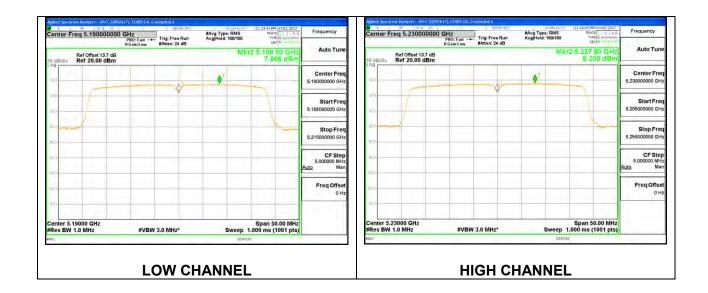
| Duty Cycle CF (dB) | 0.12 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

## **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5190      | 15.58   | 15.58  | 24.00 | -8.42  |
| High    | 5230      | 21.75   | 21.75  | 24.00 | -2.25  |

#### **PSD Results**

| Channel | Frequency     | Chain 0            | Total              | PSD                 | PSD                    |
|---------|---------------|--------------------|--------------------|---------------------|------------------------|
|         |               | Meas               | Corr'd             | Limit               | Margin                 |
|         |               | PSD                | PSD                |                     |                        |
|         |               |                    |                    |                     |                        |
|         | (MHz)         | (dBm/1MHz)         | (dBm/1MHz)         | (dBm/1MHz)          | (dB)                   |
| Low     | (MHz)<br>5190 | (dBm/1MHz)<br>7.97 | (dBm/1MHz)<br>8.09 | (dBm/1MHz)<br>11.00 | ( <b>dB</b> )<br>-2.91 |



## 2TX Chain 0 + Chain 1 CDD MODE

#### **Antenna Gain and Limits**

| Channel | Frequency | Directional | Directional | Power | PSD        |
|---------|-----------|-------------|-------------|-------|------------|
|         |           | Gain        | Gain        | Limit | Limit      |
|         |           | for Power   | for PSD     |       |            |
|         | (MHz)     | (dBi)       | (dBi)       | (dBm) | (dBm/1MHz) |
|         | (         | ()          | ()          | (     | (          |
| Low     | 5190      | 4.85        | 7.86        | 24.00 | 9.14       |

| Duty Cycle CF (dB) | 0.14 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

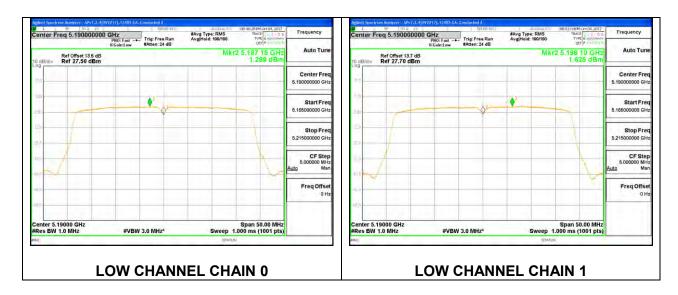
## **Output Power Results**

| Channel | Frequency | Chain 0 | Chain 1 | Total  | Power | Power  |
|---------|-----------|---------|---------|--------|-------|--------|
|         |           | Meas    | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5190      | 14.46   | 14.81   | 17.65  | 24.00 | -6.35  |
| High    | 5230      | 18.26   | 18.73   | 21.51  | 24.00 | -2.49  |

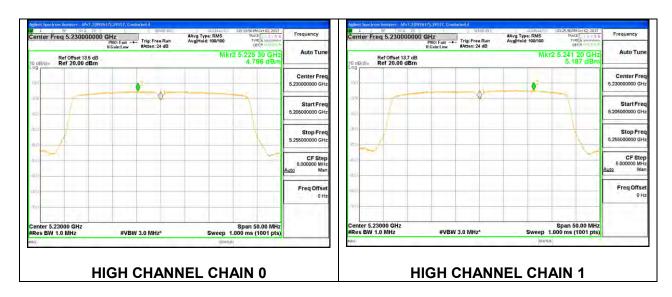
#### **PSD Results**

| Channel | Frequency | Chain 0    | Chain 1          | Total            | PSD              | PSD    |
|---------|-----------|------------|------------------|------------------|------------------|--------|
|         |           | Meas       | Meas             | Corr'd           | Limit            | Margin |
|         |           | PSD        | PSD              | PSD              |                  |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz)       | (dBm/1MHz)       | (dBm/1MHz)       | (dB)   |
|         | (         | (42,       | (abiiii iiiiiiz) | (abiiii iiiiiiz) | (abiiii iiiiiiz) | (42)   |
| Low     | 5190      | 1.29       | 1.63             | 4.61             | 9.14             | -4.53  |

#### **LOW CHANNEL**



## **HIGH CHANNEL**



## 8.5.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

## 1TX Chain 0

#### **Antenna Gain and Limits**

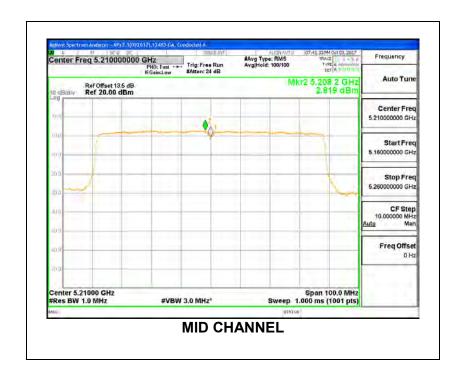
| Channel | Frequency | Directional | Power | PSD        |
|---------|-----------|-------------|-------|------------|
|         |           | Gain        | Limit | Limit      |
|         |           |             |       |            |
|         | (MHz)     | (dBi)       | (dBm) | (dBm/1MHz) |
| Mid     | 5210      | 4.80        | 24.00 | 11.00      |

| Duty Cycle CF (dB) 0.24 | Included in Calculations of Corr'd PSD |
|-------------------------|--|
|-------------------------|--|

## **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Mid     | 5210      | 15.39   | 15.39  | 24.00 | -8.61  |

| Channel | Frequency | Chain 0    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Mid     | 5210      | 2.82       | 3.06       | 11.00      | -7.94  |



#### **Antenna Gain and Limits**

| Channel | Frequency | Directional | Power | PSD        |
|---------|-----------|-------------|-------|------------|
|         |           | Gain        | Limit | Limit      |
|         |           |             |       |            |
|         | (MHz)     | (dBi)       | (dBm) | (dBm/1MHz) |
| Mid     | 5210      | 4.90        | 24.00 | 11.00      |

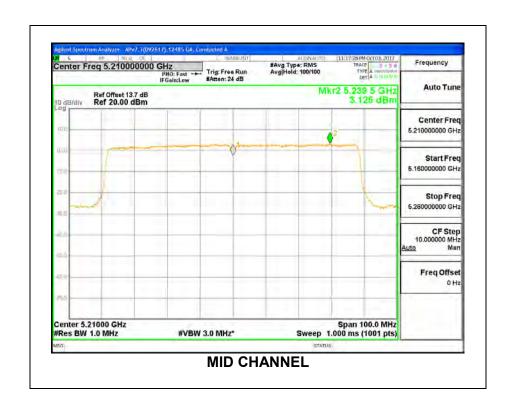
| Duty Cycle CF (dB) | 0.24 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

## **Output Power Results**

| Channel | Frequency | Chain 1 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Mid     | 5210      | 15.60   | 15.60  | 24.00 | -8.40  |

#### **PSD Results**

| Channel | Frequency | Chain 1    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Mid     | 5210      | 3.13       | 3.37       | 11.00      | -7.64  |



## 2TX Chain 0 + Chain 1 CDD MODE

#### **Antenna Gain and Limits**

| Channel | Frequency | Directional       | Directional | Power | PSD        |
|---------|-----------|-------------------|-------------|-------|------------|
|         |           | Gain              | Gain        | Limit | Limit      |
|         |           | for Power for PSD |             |       |            |
|         | (MHz)     | (dBi)             | (dBi)       | (dBm) | (dBm/1MHz) |
| Mid     | 5210      | 4.85              | 7.86        | 24.00 | 9.14       |

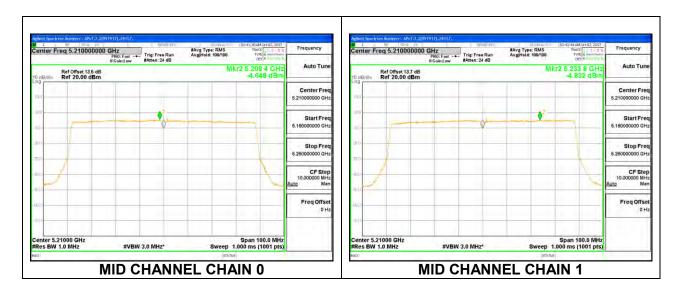
| Duty Cycle CF (dB) | 0.24 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

#### **Output Power Results**

| Channel | Frequency | Chain 0 | Chain 1 | Total  | Power | Power  |
|---------|-----------|---------|---------|--------|-------|--------|
|         |           | Meas    | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Mid     | 5210      | 12.59   | 12.63   | 15.62  | 24.00 | -8.38  |

| Channel | Frequency | Chain 0    | Chain 1    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|------------|--------|
|         |           | Meas       | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Mid     | 5210      | -4.65      | -4.83      | -1.49      | 9.14       | -10.63 |

## **MID CHANNEL**



## 8.5.5. 802.11a MODE IN THE 5.3 GHz BAND

## 1TX Chain 0

## Bandwidth, Antenna Gain, and Limits

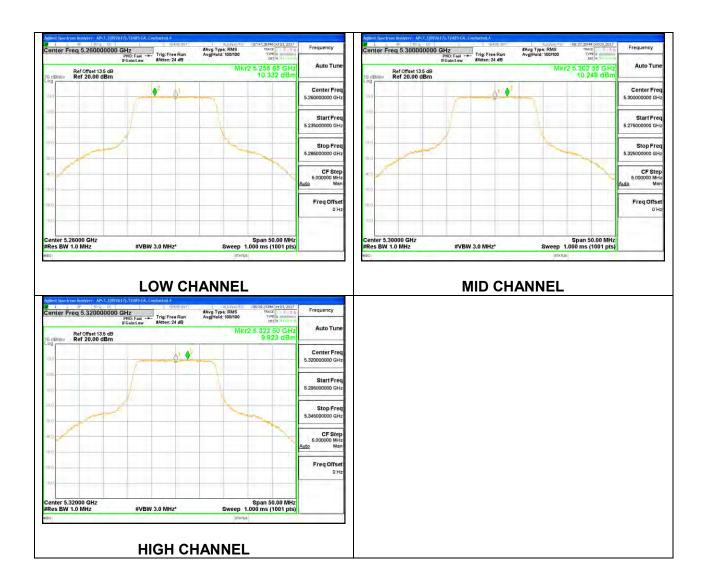
| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5260      | 20.55 | 5.00        | 24.00 | 11.00      |
| Mid     | 5300      | 20.55 | 5.00        | 24.00 | 11.00      |
| High    | 5320      | 20.55 | 5.00        | 24.00 | 11.00      |

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

#### **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5260      | 20.22   | 20.22  | 24.00 | -3.78  |
| Mid     | 5300      | 20.27   | 20.27  | 24.00 | -3.73  |
| High    | 5320      | 20.30   | 20.30  | 24.00 | -3.70  |

| Channel | Frequency | Chain 0    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5260      | 10.332     | 10.45      | 11.00      | -0.55  |
| Mid     | 5300      | 10.248     | 10.37      | 11.00      | -0.63  |
| High    | 5320      | 9.823      | 9.94       | 11.00      | -1.06  |



## Bandwidth, Antenna Gain, and Limits

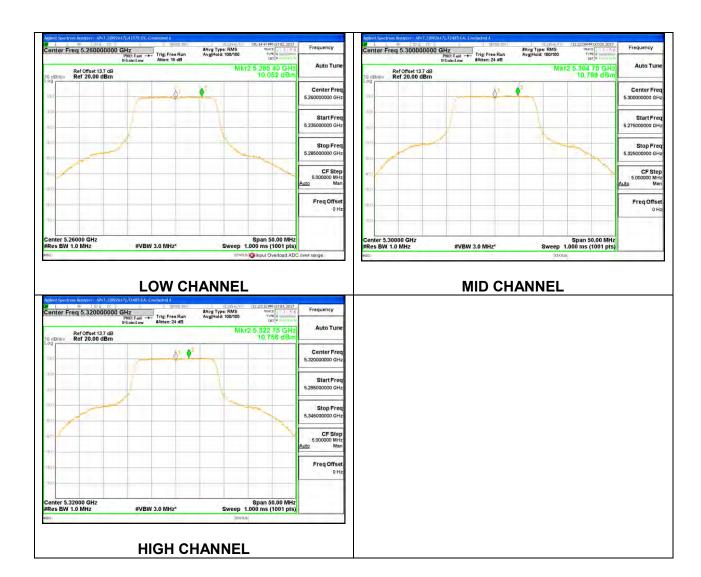
| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5260      | 20.65 | 4.90        | 24.00 | 11.00      |
| Mid     | 5300      | 20.65 | 4.90        | 24.00 | 11.00      |
| High    | 5320      | 20.65 | 4.90        | 24.00 | 11.00      |

| Duty Cycle CF (dB) | 0.14 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

#### **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5260      | 20.96   | 20.96  | 24.00 | -3.04  |
| Mid     | 5300      | 21.34   | 21.34  | 24.00 | -2.66  |
| High    | 5320      | 20.23   | 20.23  | 24.00 | -3.77  |

| Channel | Frequency | Chain 1    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5260      | 10.052     | 10.19      | 11.00      | -0.81  |
| Mid     | 5300      | 10.799     | 10.94      | 11.00      | -0.06  |
| High    | 5320      | 10.756     | 10.90      | 11.00      | -0.10  |



## 8.5.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

## 1TX Chain 0

## Bandwidth, Antenna Gain, and Limits

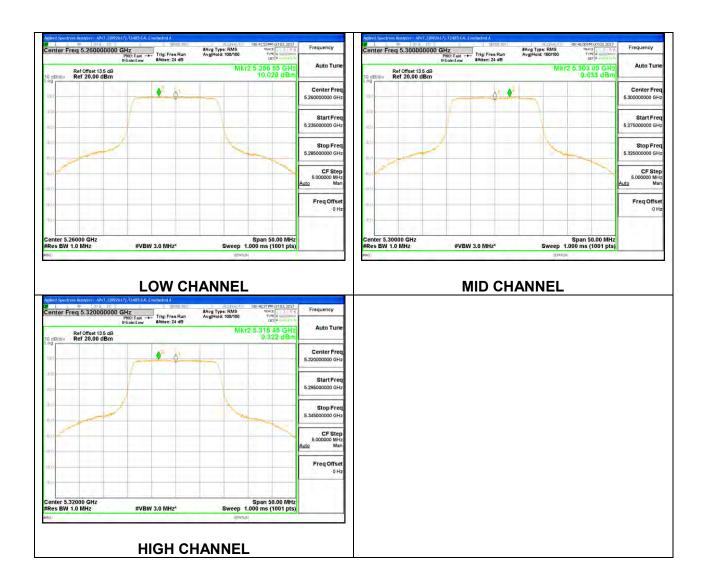
| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5260      | 21.10 | 5.00        | 24.00 | 11.00      |
| Mid     | 5300      | 21.15 | 5.00        | 24.00 | 11.00      |
| High    | 5320      | 21.25 | 5.00        | 24.00 | 11.00      |

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

#### **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5260      | 20.90   | 20.90  | 24.00 | -3.10  |
| Mid     | 5300      | 20.92   | 20.92  | 24.00 | -3.08  |
| High    | 5320      | 20.64   | 20.64  | 24.00 | -3.36  |

| Channel | Frequency | Chain 0    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5260      | 10.03      | 10.03      | 11.00      | -0.97  |
| Mid     | 5300      | 9.63       | 9.63       | 11.00      | -1.37  |
| High    | 5320      | 9.32       | 9.32       | 11.00      | -1.68  |



## Bandwidth, Antenna Gain, and Limits

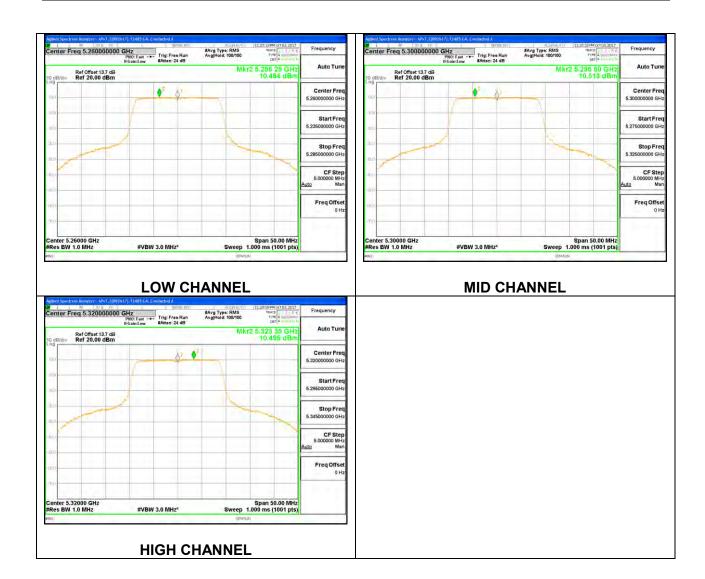
| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5260      | 21.25 | 4.90        | 24.00 | 11.00      |
| Mid     | 5300      | 21.25 | 4.90        | 24.00 | 11.00      |
| High    | 5320      | 21.25 | 4.90        | 24.00 | 11.00      |

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

## **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5260      | 20.92   | 20.92  | 24.00 | -3.08  |
| Mid     | 5300      | 21.83   | 21.83  | 24.00 | -2.17  |
| High    | 5320      | 20.89   | 20.89  | 24.00 | -3.11  |

| Channel | Frequency | Chain 1    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5260      | 10.48      | 10.48      | 11.00      | -0.52  |
| Mid     | 5300      | 10.51      | 10.51      | 11.00      | -0.49  |
| High    | 5320      | 10.50      | 10.50      | 11.00      | -0.51  |



## 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/1MHz) |
| Low     | 5260      | 21.25 | 4.95        | 7.96        | 24.00 | 9.04       |
| Mid     | 5300      | 21.10 | 4.95        | 7.96        | 24.00 | 9.04       |
| High    | 5320      | 21.20 | 4.95        | 7.96        | 24.00 | 9.04       |

DATE: 10/25/2017

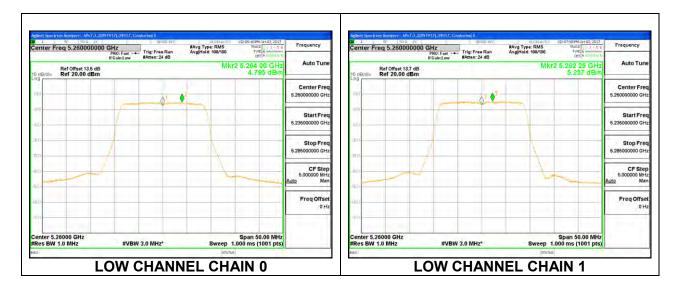
| Duty Cycle CF (dB) 0.00 | Included in Calculations of Corr'd PSD |
|-------------------------|--|
|-------------------------|--|

### **Output Power Results**

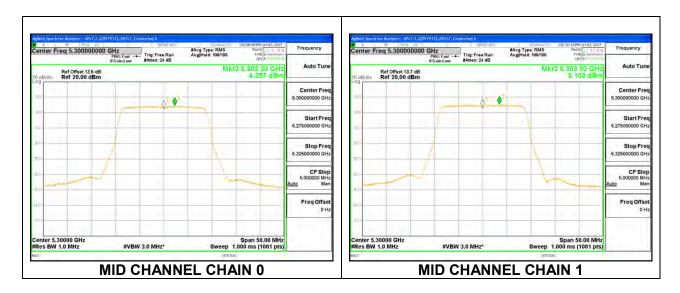
| Channel | Frequency | Chain 0 | Chain 1 | Total  | Power | Power  |
|---------|-----------|---------|---------|--------|-------|--------|
|         |           | Meas    | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5260      | 16.02   | 16.47   | 19.26  | 24.00 | -4.74  |
| Mid     | 5300      | 15.93   | 16.67   | 19.33  | 24.00 | -4.67  |
| High    | 5320      | 15.62   | 16.62   | 19.16  | 24.00 | -4.84  |

| Channel | Frequency | Chain 0    | Chain 1    | Total      | PSD   | PSD    |
|---------|-----------|------------|------------|------------|-------|--------|
|         |           | Meas       | Meas       | Corr'd     | Limit | Margin |
|         |           | PSD        | PSD        | PSD        |       |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dBm) | (dB)   |
| Low     | 5260      | 4.80       | 5.24       | 8.03       | 9.04  | -1.01  |
| Mid     | 5300      | 4.26       | 5.10       | 7.71       | 9.04  | -1.33  |
| High    | 5320      | 4.11       | 5.38       | 7.80       | 9.04  | -1.24  |

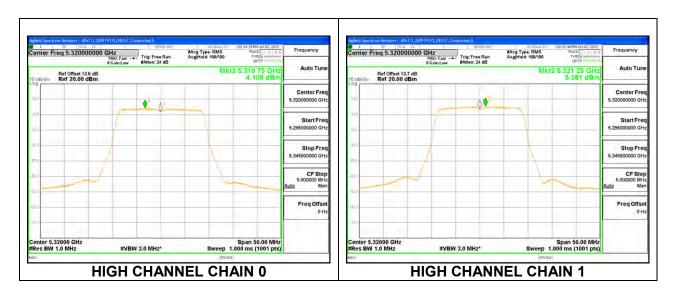
## **LOW CHANNEL**



#### MID CHANNEL



## **HIGH CHANNEL**



## 8.5.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

## 1TX Chain 0

## Bandwidth, Antenna Gain, and Limits

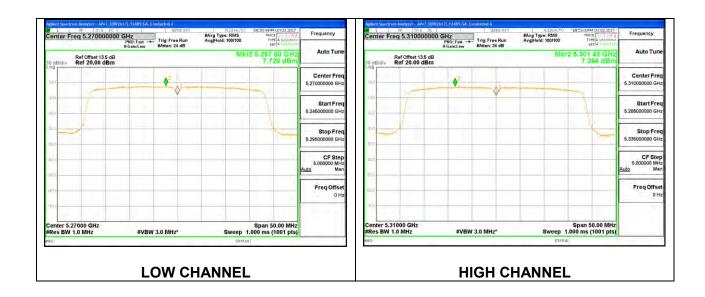
| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
|         | (         | (     | ( )         | ()    | (          |
| Low     | 5270      | 40.70 | 5.00        | 24.00 | 11.00      |

| Duty Cycle CF (dB) | 0.17 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

## **Output Power Results**

| Channel | Frequency     | Chain 0        | Total          | Power          | Power                  |
|---------|---------------|----------------|----------------|----------------|------------------------|
|         |               | Meas           | Corr'd         | Limit          | Margin                 |
|         |               | Power          | Power          |                |                        |
|         |               |                |                |                |                        |
|         | (MHz)         | (dBm)          | (dBm)          | (dBm)          | (dB)                   |
| Low     | (MHz)<br>5270 | (dBm)<br>21.51 | (dBm)<br>21.51 | (dBm)<br>24.00 | ( <b>dB</b> )<br>-2.49 |

| Channel | Frequency     | Chain 0            | Total              | PSD                 | PSD                    |
|---------|---------------|--------------------|--------------------|---------------------|------------------------|
|         |               | Meas               | Corr'd             | Limit               | Margin                 |
|         |               | PSD                | PSD                |                     |                        |
|         |               |                    |                    |                     |                        |
|         | (MHz)         | (dBm/1MHz)         | (dBm/1MHz)         | (dBm/1MHz)          | (dB)                   |
| Low     | (MHz)<br>5270 | (dBm/1MHz)<br>7.73 | (dBm/1MHz)<br>7.90 | (dBm/1MHz)<br>11.00 | ( <b>dB</b> )<br>-3.10 |



## Bandwidth, Antenna Gain, and Limits

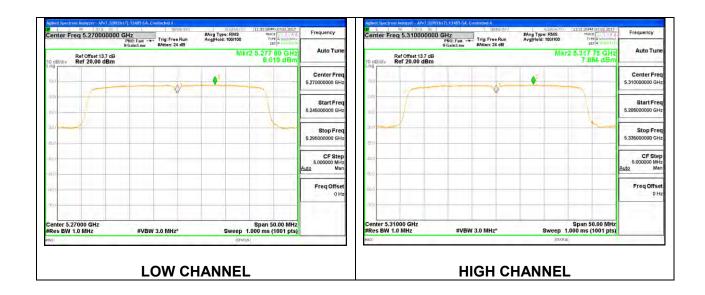
| Channel | Frequency | Min     | Directional | Power   | PSD             |
|---------|-----------|---------|-------------|---------|-----------------|
|         |           | 26 dB   | Gain        | Limit   | Limit           |
|         |           | BW      |             |         |                 |
|         | /B#LI=\   | /N/ILI\ | (AD:)       | (dBm)   | (dBm/1MHz)      |
|         | (MHz)     | (MHz)   | (dBi)       | (abiii) | (ubili/ livinz) |
| Low     | 5270      | 40.80   | 4.90        | 24.00   | 11.00           |

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

#### **Output Power Results**

| Channel | Frequency              | Chain 0        | Total          | Power | Power  |
|---------|------------------------|----------------|----------------|-------|--------|
|         |                        | Meas           | Corr'd         | Limit | Margin |
|         |                        | Power          | Power          |       |        |
|         |                        |                |                | (15.) | ( 10)  |
|         | (MHz)                  | (dBm)          | (dBm)          | (dBm) | (dB)   |
| Low     | ( <b>MHz</b> )<br>5270 | (dBm)<br>22.10 | (dBm)<br>22.10 | 24.00 | -1.90  |

| Channel | Frequency              | Chain 1            | Total              | PSD                 | PSD                    |
|---------|------------------------|--------------------|--------------------|---------------------|------------------------|
|         |                        | Meas               | Corr'd             | Limit               | Margin                 |
|         |                        | PSD                | PSD                |                     |                        |
|         |                        |                    |                    |                     |                        |
|         | (MHz)                  | (dBm/1MHz)         | (dBm/1MHz)         | (dBm/1MHz)          | (dB)                   |
| Low     | ( <b>MHz</b> )<br>5270 | (dBm/1MHz)<br>8.02 | (dBm/1MHz)<br>8.14 | (dBm/1MHz)<br>11.00 | ( <b>dB</b> )<br>-2.86 |



## 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/1MHz)       |
|         | (         | (     | ( )         | (45.)       | (4.2) | (abiii, iiiiiiz) |
| Low     | 5270      | 40.80 | 4.95        | 7.96        | 24.00 | 9.04             |

| Duty Cycle CF (dB) 0.14 | Included in Calculations of Corr'd PSD |  |
|-------------------------|--|--|
|-------------------------|--|--|

#### **Output Power Results**

| Channel | Frequency | Chain 0 | Chain 1 | Total  | Power | Power  |
|---------|-----------|---------|---------|--------|-------|--------|
|         |           | Meas    | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5270      | 16.81   | 17.27   | 20.06  | 24.00 | -3.94  |
| High    | 5310      | 16.72   | 17.46   | 20.12  | 24.00 | -3.88  |

#### **PSD Results**

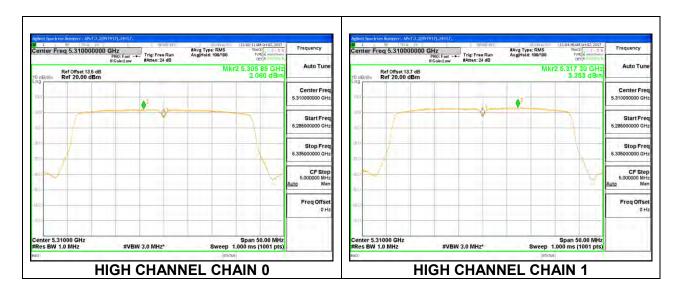
| Channel | Frequency | Chain 0    | Chain 1    | Total      | PSD   | PSD    |
|---------|-----------|------------|------------|------------|-------|--------|
|         |           | Meas       | Meas       | Corr'd     | Limit | Margin |
|         |           | PSD        | PSD        | PSD        |       |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dBm) | (dB)   |
| Low     | 5270      | 2.80       | 3.46       | 6.29       | 9.04  | -2.75  |
| High    | 5310      | 2.06       | 3.25       | 5.85       | 9.04  | -3.19  |

DATE: 10/25/2017

#### **LOW CHANNEL**



#### **HIGH CHANNEL**



## 8.5.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

## 1TX Chain 0

## Bandwidth, Antenna Gain, and Limits

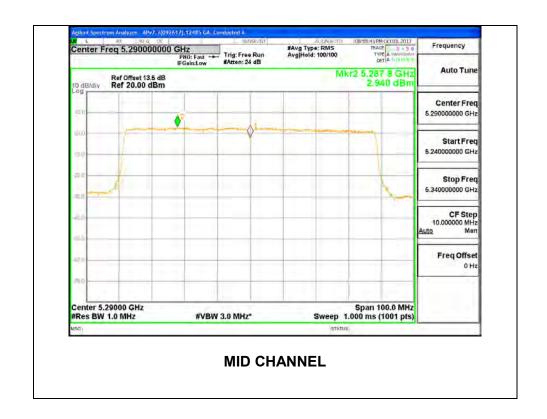
| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
| Mid     | 5290      | 84.4  | 5.00        | 24.00 | 11.00      |

| Duty Cycle CF (dB) | 0.24 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

## **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Mid     | 5290      | 15.95   | 15.95  | 24.00 | -8.05  |

| Ī | Channel | Frequency | Chain 0    | Total      | PSD        | PSD    |
|---|---------|-----------|------------|------------|------------|--------|
|   |         |           | Meas       | Corr'd     | Limit      | Margin |
| ı |         |           | PSD        | PSD        |            |        |
|   |         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| ĺ | Mid     | 5290      | 2.94       | 3.18       | 11.00      | -7.82  |



## Bandwidth, Antenna Gain, and Limits

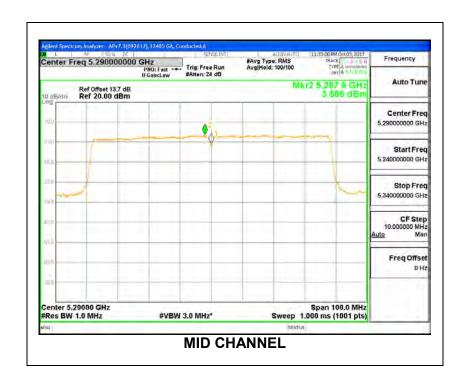
| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
| Mid     | 5290      | 84.6  | 4.90        | 24.00 | 11.00      |

| Duty Cycle CF (dB) | 0.25 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

## **Output Power Results**

| Channel | Frequency | Chain 1 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Mid     | 5290      | 14.47   | 14.47  | 24.00 | -9.53  |

|   | Channel | Frequency | Chain 1    | Total      | PSD        | PSD    |
|---|---------|-----------|------------|------------|------------|--------|
| ı |         |           | Meas       | Corr'd     | Limit      | Margin |
| ı |         |           | PSD        | PSD        |            |        |
| ı |         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| ſ | Mid     | 5290      | 3.59       | 3.84       | 11.00      | -7.16  |



## 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/1MHz) |
| Mid     | 5290      | 84.20 | 4.95        | 7.96        | 24.00 | 9.04       |

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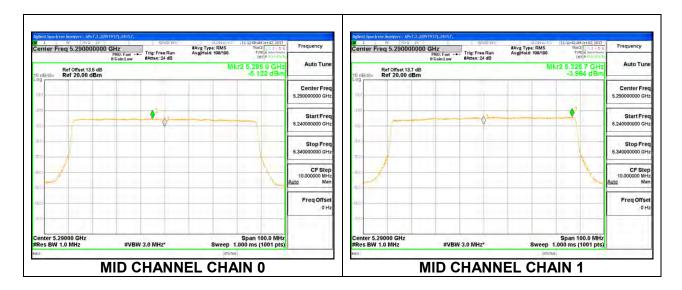
| Duty Cycle CF (dB) | 0.24 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

## **Output Power Results**

| Channel | Frequency | Chain 0 | Chain 1 | Total  | Power | Power  |
|---------|-----------|---------|---------|--------|-------|--------|
|         |           | Meas    | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Mid     | 5290      | 13.02   | 13.53   | 16.29  | 24.00 | -7.71  |

| Channel | Frequency | Chain 0    | Chain 1    | Total      | PSD   | PSD    |  |  |
|---------|-----------|------------|------------|------------|-------|--------|--|--|
|         |           | Meas       | Meas       | Corr'd     | Limit | Margin |  |  |
|         |           | PSD        | PSD        | PSD        |       |        |  |  |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dBm) | (dB)   |  |  |
| Mid     | 5290      | -5.12      | -3.96      | -1.25      | 9.04  | -10.29 |  |  |

## **MID CHANNEL**



## 8.5.9. 802.11a MODE IN THE 5.6 GHz BAND

## 1TX Chain 0

## Bandwidth, Antenna Gain, and Limits

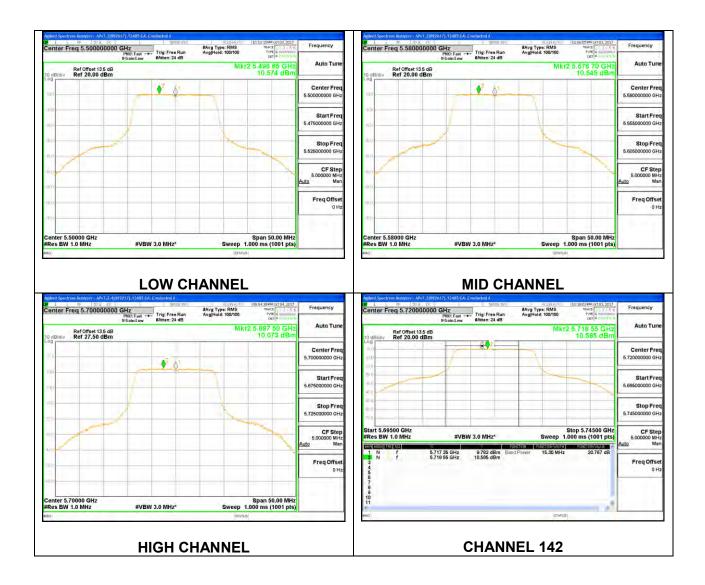
| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5500      | 20.6  | 5.50        | 24.00 | 11.00      |
| Mid     | 5580      | 20.7  | 5.50        | 24.00 | 11.00      |
| High    | 5700      | 20.65 | 5.50        | 24.00 | 11.00      |
| 144     | 5720      | 15.30 | 5.50        | 22.85 | 11.00      |

| Duty Cycle CF (dB) 0.12 Included in Calculations of C |
|---|
|---|

#### **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5500      | 20.77   | 20.77  | 24.00 | -3.23  |
| Mid     | 5580      | 21.16   | 21.16  | 24.00 | -2.84  |
| High    | 5700      | 20.61   | 20.61  | 24.00 | -3.39  |
| 144     | 5720      | 20.77   | 20.89  | 22.85 | -1.96  |

| Channel | Frequency | Chain 0    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5500      | 10.57      | 10.69      | 11.00      | -0.31  |
| Mid     | 5580      | 10.55      | 10.67      | 11.00      | -0.34  |
| High    | 5700      | 10.07      | 10.19      | 11.00      | -0.81  |
| 144     | 5720      | 10.59      | 10.71      | 11.00      | -0.30  |



## Bandwidth, Antenna Gain, and Limits

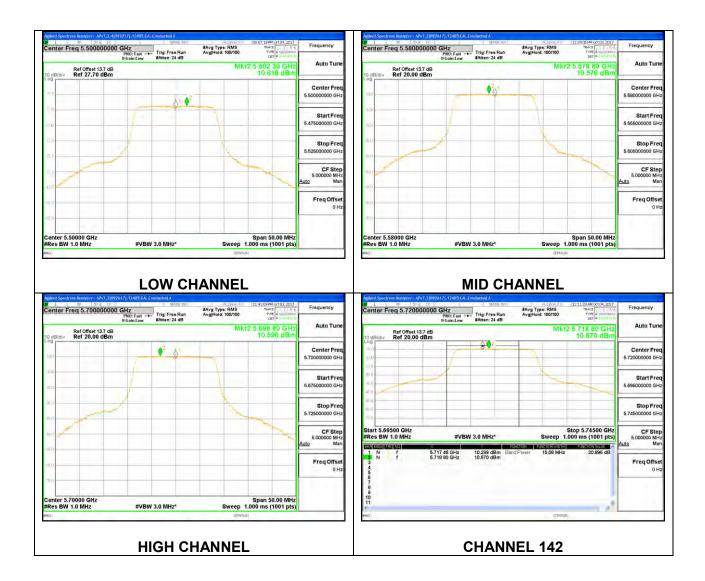
| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5500      | 20.7  | 4.2         | 24.00 | 11.00      |
| Mid     | 5580      | 20.6  | 4.2         | 24.00 | 11.00      |
| High    | 5700      | 20.45 | 4.2         | 24.00 | 11.00      |
| 144     | 5720      | 15.08 | 4.20        | 22.78 | 11.00      |

| Duty Cycle CF (dB) | 0.14 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|
|--------------------|------|--|

## **Output Power Results**

| Channel | Frequency | Chain 1 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5500      | 20.77   | 20.77  | 24.00 | -3.23  |
| Mid     | 5580      | 21.15   | 21.15  | 24.00 | -2.85  |
| High    | 5700      | 20.92   | 20.92  | 24.00 | -3.08  |
| 144     | 5720      | 20.90   | 21.04  | 22.78 | -1.75  |

| . 02 11000 | . O I No cuito |            |            |            |        |  |  |  |
|------------|----------------|------------|------------|------------|--------|--|--|--|
| Channel    | Frequency      | Chain 1    | Total      | PSD        | PSD    |  |  |  |
|            |                | Meas       | Corr'd     | Limit      | Margin |  |  |  |
|            |                | PSD        | PSD        |            |        |  |  |  |
|            | (MHz)          | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |  |  |  |
| Low        | 5500           | 10.62      | 10.76      | 11.00      | -0.24  |  |  |  |
| Mid        | 5580           | 10.58      | 10.72      | 11.00      | -0.28  |  |  |  |
| High       | 5700           | 10.59      | 10.73      | 11.00      | -0.27  |  |  |  |
| 144        | 5720           | 10.67      | 10.81      | 11.00      | -0.19  |  |  |  |



## 8.5.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

## 1TX Chain 0

## Bandwidth, Antenna Gain, and Limits

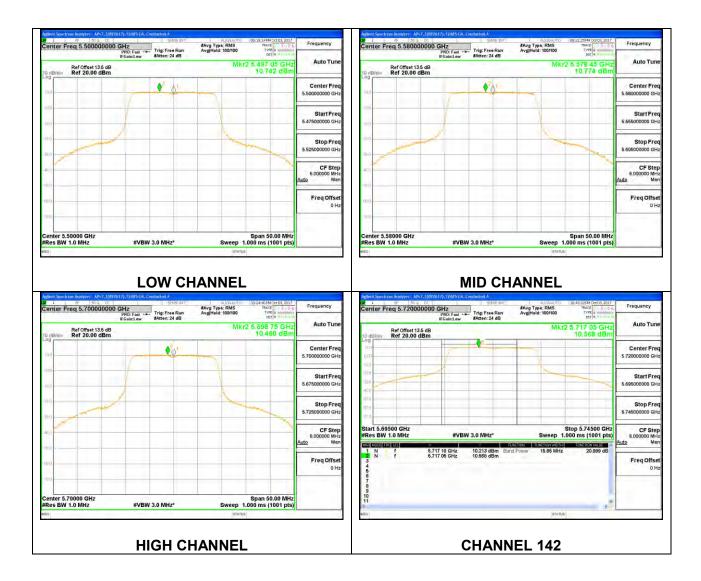
| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5500      | 21    | 5.5         | 24.00 | 11.00      |
| Mid     | 5580      | 21.05 | 5.5         | 24.00 | 11.00      |
| High    | 5700      | 21.55 | 5.5         | 24.00 | 11.00      |
| 144     | 5720      | 15.65 | 5.50        | 22.95 | 11.00      |

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

#### **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5500      | 21.12   | 21.12  | 24.00 | -2.88  |
| Mid     | 5580      | 21.64   | 21.64  | 24.00 | -2.36  |
| High    | 5700      | 20.74   | 20.74  | 24.00 | -3.26  |
| 144     | 5720      | 21.00   | 21.00  | 22.95 | -1.95  |

| Channel | Frequency | Chain 0    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5500      | 10.74      | 10.74      | 11.00      | -0.26  |
| Mid     | 5580      | 10.77      | 10.77      | 11.00      | -0.23  |
| High    | 5700      | 10.46      | 10.46      | 11.00      | -0.54  |
| 144     | 5720      | 10.57      | 10.57      | 11.00      | -0.43  |



## Bandwidth, Antenna Gain, and Limits

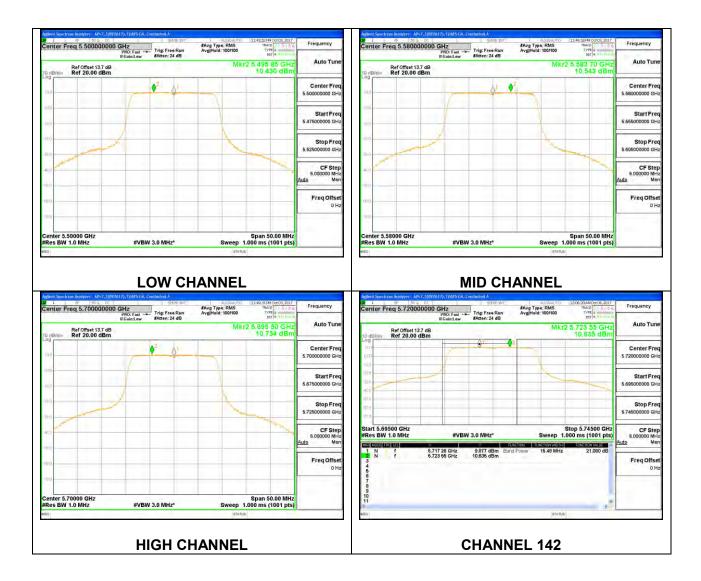
| Channel | Frequency | Min   | Directional | Power | PSD        |  |
|---------|-----------|-------|-------------|-------|------------|--|
|         |           | 26 dB | Gain        | Limit | Limit      |  |
|         |           | BW    |             |       |            |  |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |  |
| Low     | 5500      | 21.15 | 4.2         | 24.00 | 11.00      |  |
| Mid     | 5580      | 21.15 | 4.2         | 24.00 | 11.00      |  |
| High    | 5700      | 21.1  | 4.2         | 24.00 | 11.00      |  |
| 144     | 5720      | 20.95 | 4.2         | 24.00 | 11.00      |  |

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

### **Output Power Results**

| Channel | Frequency | Chain 1 | Total  | Power | Power  |  |  |  |
|---------|-----------|---------|--------|-------|--------|--|--|--|
|         |           | Meas    | Corr'd | Limit | Margin |  |  |  |
|         |           | Power   | Power  |       |        |  |  |  |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |  |  |  |
| Low     | 5500      | 21.03   | 21.03  | 24.00 | -2.97  |  |  |  |
| Mid     | 5580      | 21.56   | 21.56  | 24.00 | -2.44  |  |  |  |
| High    | 5700      | 21.24   | 21.24  | 24.00 | -2.76  |  |  |  |
| 144     | 5720      | 21.08   | 21.08  | 24.00 | -2.92  |  |  |  |

| Channel | Frequency | Chain 1    | Total      | PSD        | PSD    |
|---------|-----------|------------|------------|------------|--------|
|         |           | Meas       | Corr'd     | Limit      | Margin |
|         |           | PSD        | PSD        |            |        |
|         | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low     | 5500      | 10.43      | 10.43      | 11.00      | -0.57  |
| Mid     | 5580      | 10.54      | 10.54      | 11.00      | -0.46  |
| High    | 5700      | 10.73      | 10.73      | 11.00      | -0.27  |
| 144     | 5720      | 10.64      | 10.64      | 11.00      | -0.37  |



## 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/1MHz) |
| Low     | 5500      | 20.75 | 4.90        | 7.88        | 24.00 | 9.12       |
| Mid     | 5580      | 20.90 | 4.90        | 7.88        | 24.00 | 9.12       |
| High    | 5700      | 20.75 | 4.90        | 7.88        | 24.00 | 9.12       |
| 144     | 5720      | 15.55 | 4.90        | 7.88        | 22.92 | 9.12       |

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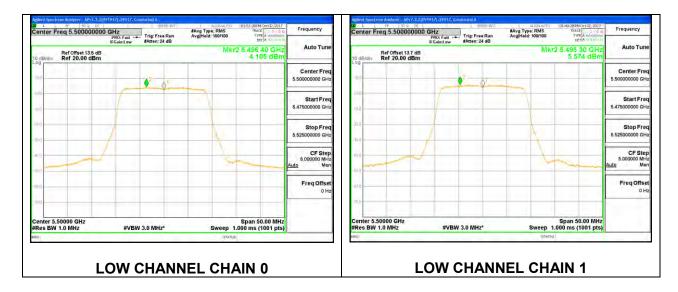
| Duty Cycle CF (dB) 0.00 | Included in Calculations of Corr'd PSD |
|-------------------------|--|
|-------------------------|--|

## **Output Power Results**

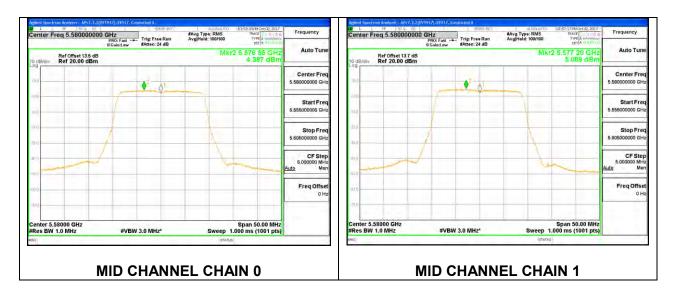
| Channel | Frequency | Chain 0 | Chain 1 | Total  | Power | Power  |  |  |  |  |
|---------|-----------|---------|---------|--------|-------|--------|--|--|--|--|
|         |           | Meas    | Meas    | Corr'd | Limit | Margin |  |  |  |  |
|         |           | Power   | Power   | Power  |       |        |  |  |  |  |
|         | (MHz)     | (dBm)   | (dBm)   | (dBm)  | (dBm) | (dB)   |  |  |  |  |
| Low     | 5500      | 15.42   | 16.16   | 18.82  | 24.00 | -5.18  |  |  |  |  |
| Mid     | 5580      | 15.90   | 16.17   | 19.05  | 24.00 | -4.95  |  |  |  |  |
| High    | 5700      | 16.37   | 15.70   | 19.06  | 24.00 | -4.94  |  |  |  |  |
| 144     | 5720      | 15.18   | 14.63   | 17.92  | 22.92 | -4.99  |  |  |  |  |
|         |           |         |         |        |       |        |  |  |  |  |

| 1 OD Rest | r ob iteatita |            |            |            |       |        |  |  |  |
|-----------|---------------|------------|------------|------------|-------|--------|--|--|--|
| Channel   | Frequency     | Chain 0    | Chain 1    | Total      | PSD   | PSD    |  |  |  |
|           |               | Meas       | Meas       | Corr'd     | Limit | Margin |  |  |  |
|           |               | PSD        | PSD        | PSD        |       |        |  |  |  |
|           | (MHz)         | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dBm) | (dB)   |  |  |  |
| Low       | 5500          | 4.11       | 5.57       | 7.91       | 9.12  | -1.21  |  |  |  |
| Mid       | 5580          | 4.39       | 5.09       | 7.76       | 9.12  | -1.36  |  |  |  |
| High      | 5700          | 5.40       | 4.80       | 8.12       | 9.12  | -1.00  |  |  |  |
| 144       | 5720          | 5.00       | 4.32       | 7.69       | 9.12  | -1.43  |  |  |  |

#### **LOW CHANNEL**

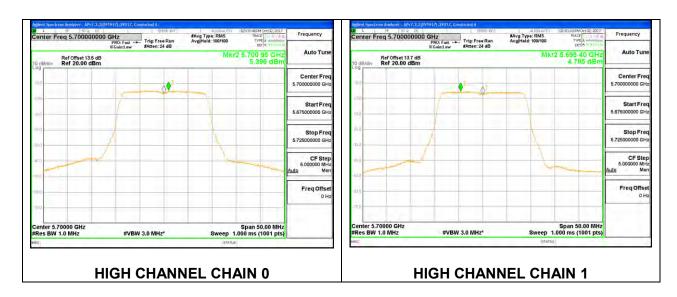


## **MID CHANNEL**

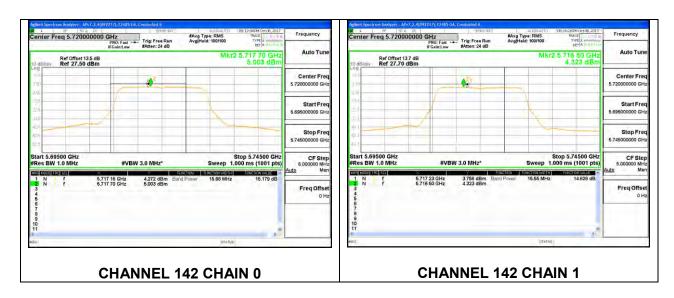


# HIGH CHANNEL

DATE: 10/25/2017



## **CHANNEL 142**



## 8.5.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

## 1TX Chain 0

## Bandwidth, Antenna Gain, and Limits

| Channel | Frequency | Min   | Directional | Power | PSD        |
|---------|-----------|-------|-------------|-------|------------|
|         |           | 26 dB | Gain        | Limit | Limit      |
|         |           | BW    |             |       |            |
|         | (MHz)     | (MHz) | (dBi)       | (dBm) | (dBm/1MHz) |
| Low     | 5510      | 40.50 | 5.5         | 24.00 | 11.00      |
| Mid     | 5550      | 40.40 | 5.5         | 24.00 | 11.00      |
| High    | 5670      | 40.70 | 5.5         | 24.00 | 11.00      |
| 142     | 5710      | 35.30 | 5.5         | 24.00 | 11.00      |

| Duty Cycle CF (dB) 0.17 Inclu | luded in Calculations of Corr'd PSD |
|-------------------------------|-------------------------------------|
|-------------------------------|-------------------------------------|

#### **Output Power Results**

| Channel | Frequency | Chain 0 | Total  | Power | Power  |
|---------|-----------|---------|--------|-------|--------|
|         |           | Meas    | Corr'd | Limit | Margin |
|         |           | Power   | Power  |       |        |
|         | (MHz)     | (dBm)   | (dBm)  | (dBm) | (dB)   |
| Low     | 5510      | 17.75   | 17.75  | 24.00 | -6.25  |
| Mid     | 5550      | 22.17   | 22.17  | 24.00 | -1.83  |
| High    | 5670      | 23.17   | 23.17  | 24.00 | -0.83  |
| 142     | 5710      | 23.53   | 23.70  | 24.00 | -0.30  |

| 1 OD TROCKES |           |            |            |            |        |
|--------------|-----------|------------|------------|------------|--------|
| Channel      | Frequency | Chain 0    | Total      | PSD        | PSD    |
|              |           | Meas       | Corr'd     | Limit      | Margin |
|              |           | PSD        | PSD        |            |        |
|              | (MHz)     | (dBm/1MHz) | (dBm/1MHz) | (dBm/1MHz) | (dB)   |
| Low          | 5510      | 8.42       | 8.59       | 11.00      | -2.41  |
| Mid          | 5550      | 8.33       | 8.50       | 11.00      | -2.50  |
| High         | 5670      | 9.71       | 9.88       | 11.00      | -1.12  |
| 142          | 5710      | 9.86       | 10.03      | 11.00      | -0.97  |

