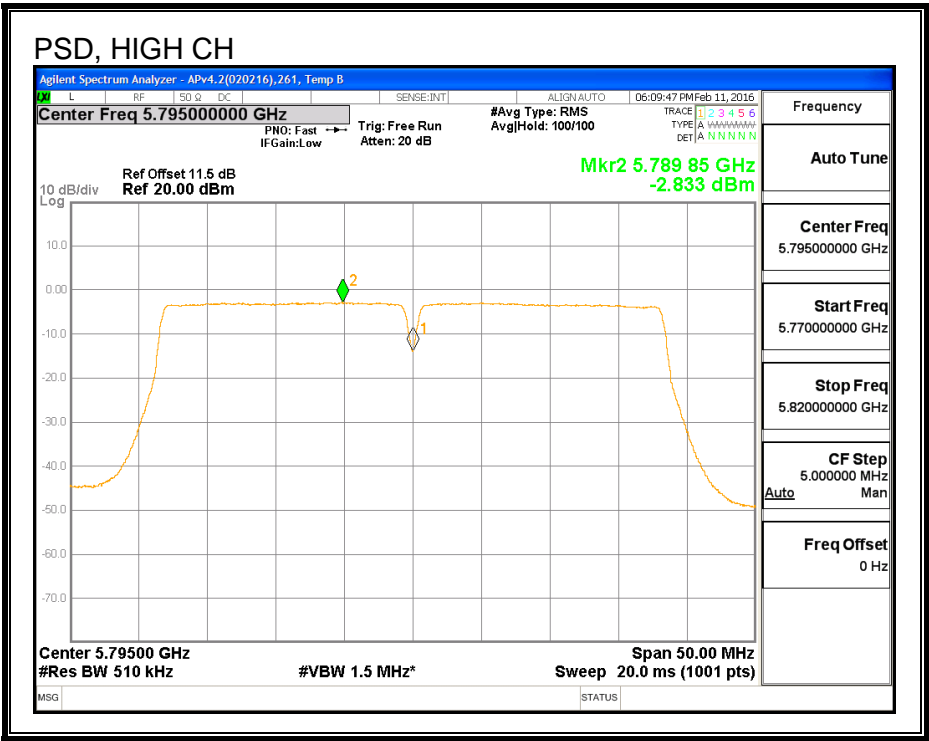
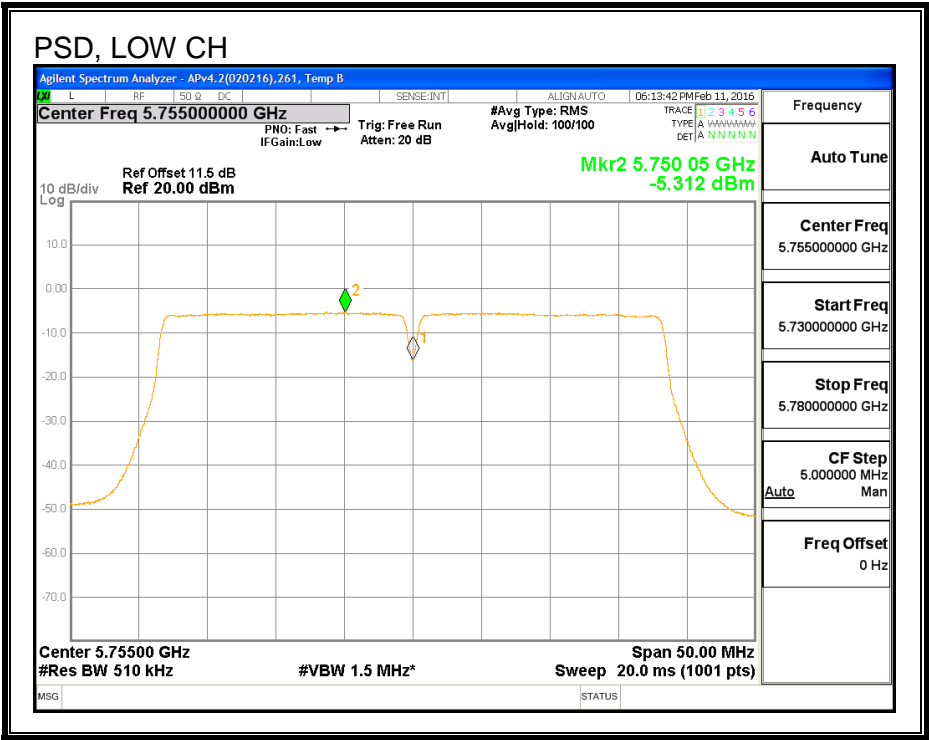


PSD, CHAIN 1



## **8.64. 802.11n HT40 2Tx STBC MODE IN THE 5.8 GHz BAND**

### **8.64.1. 6 dB BANDWIDTH**

#### **LIMITS**

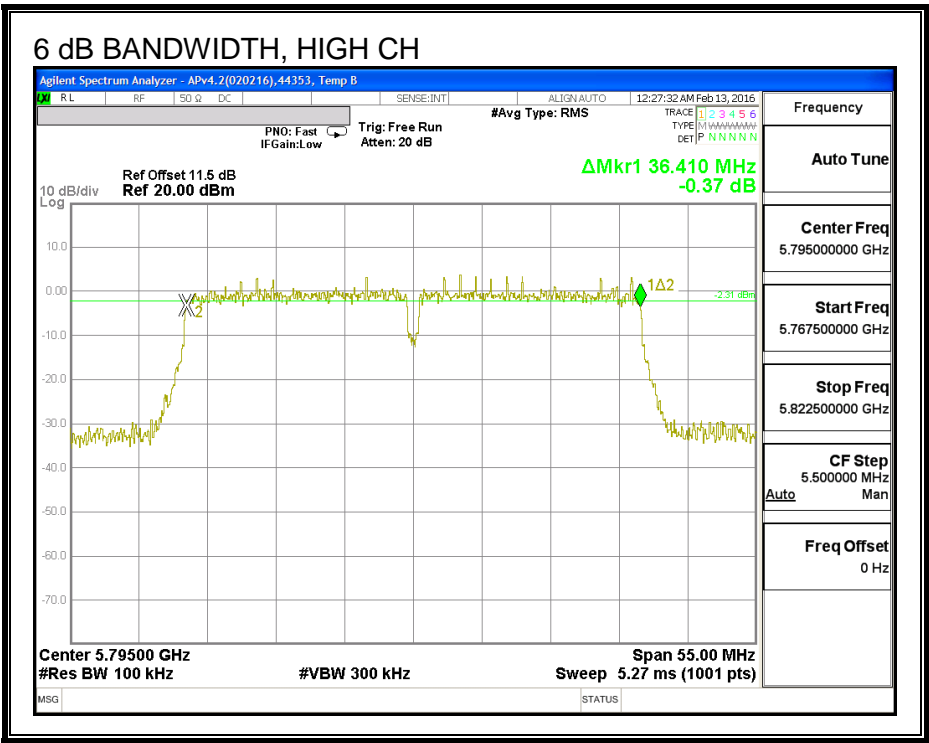
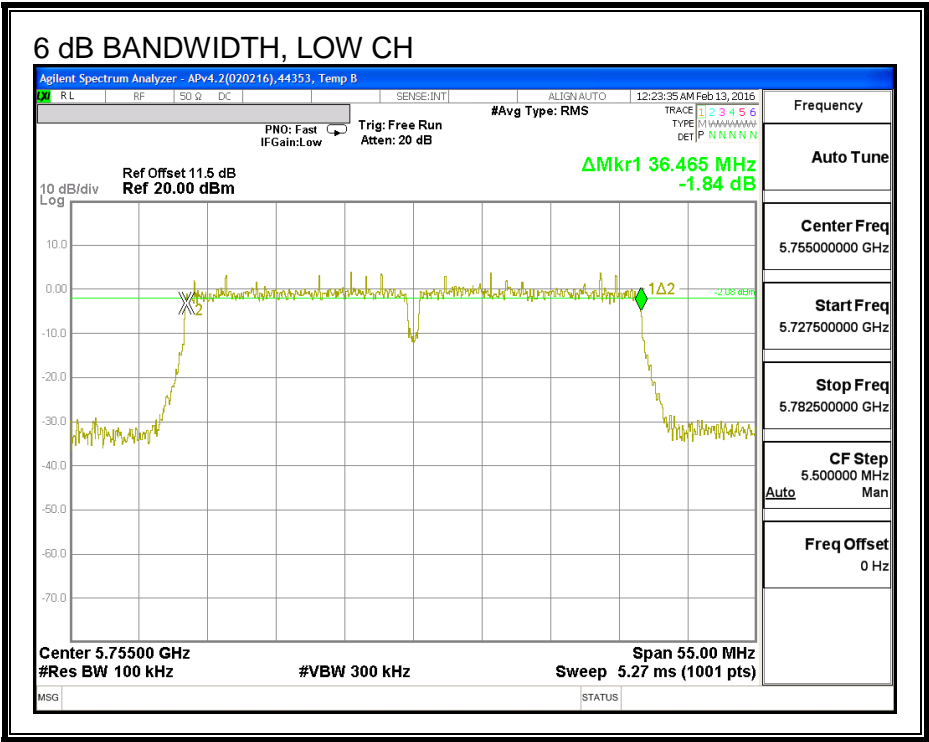
FCC §15.407 (e)

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

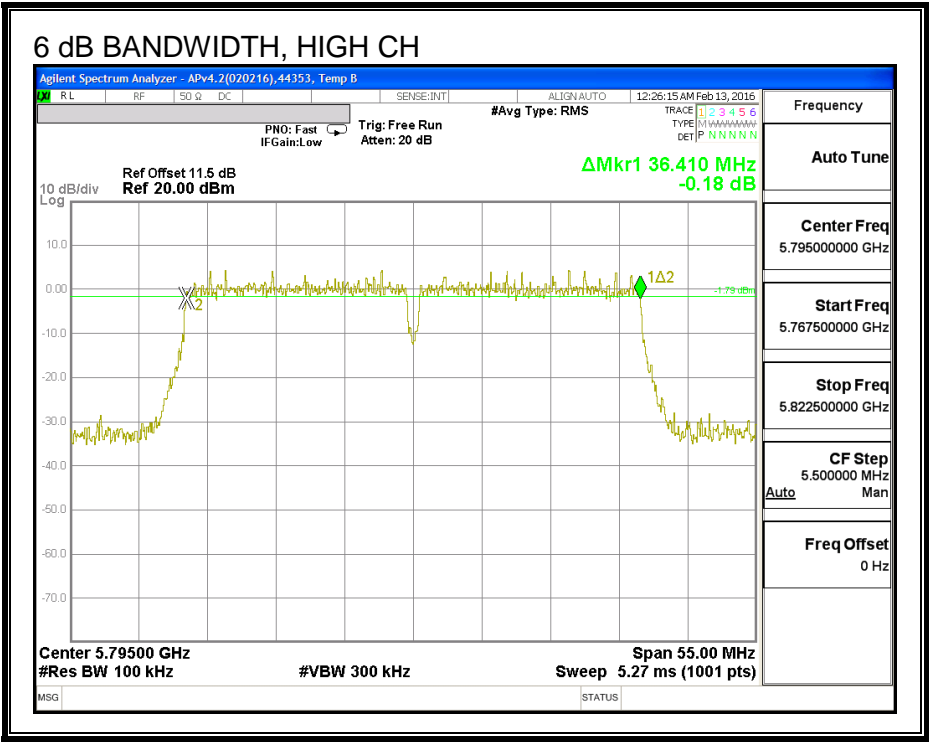
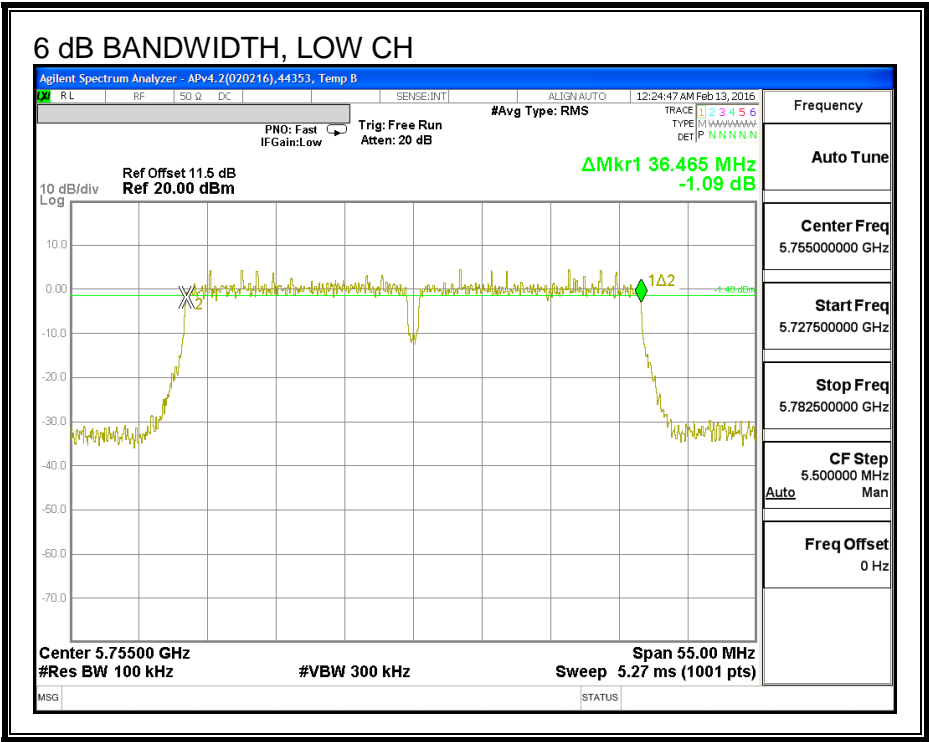
#### **RESULTS**

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	5755	36.47	36.47	0.5
High	5795	36.41	36.41	0.5

6 dB BANDWIDTH, CHAIN 0



6 dB BANDWIDTH, CHAIN 1



### 8.64.2. 26 dB BANDWIDTH

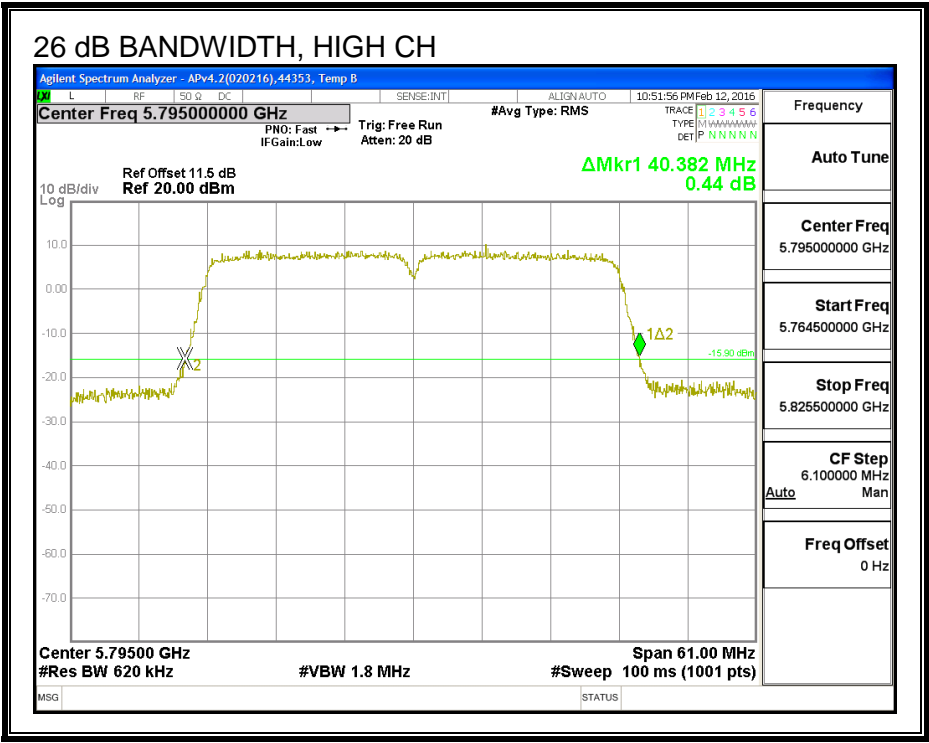
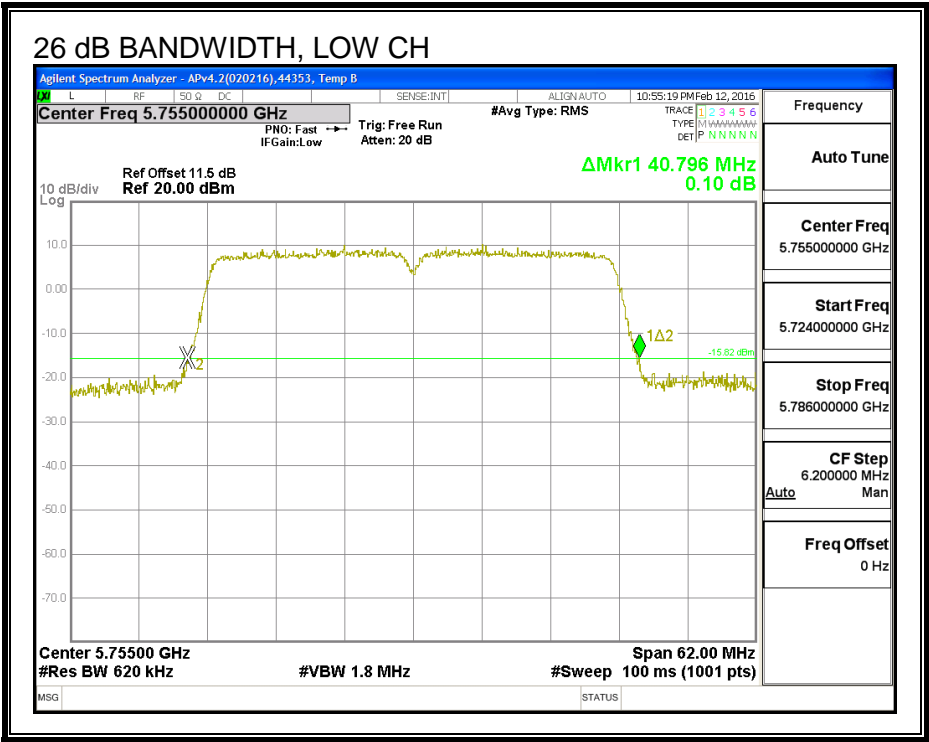
#### LIMITS

None, for reporting purposes only.

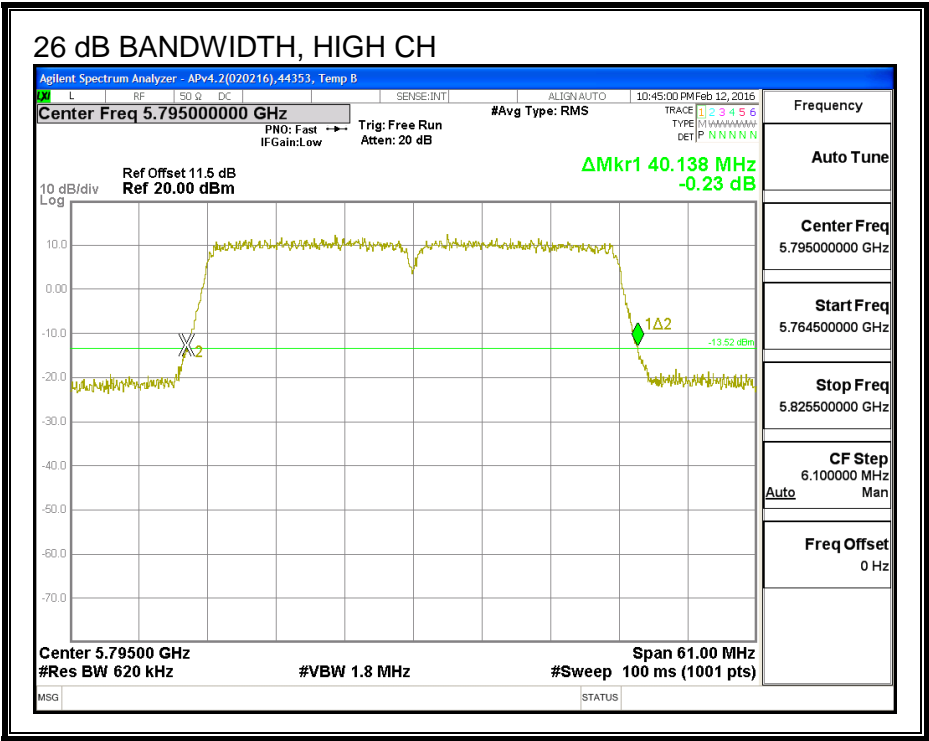
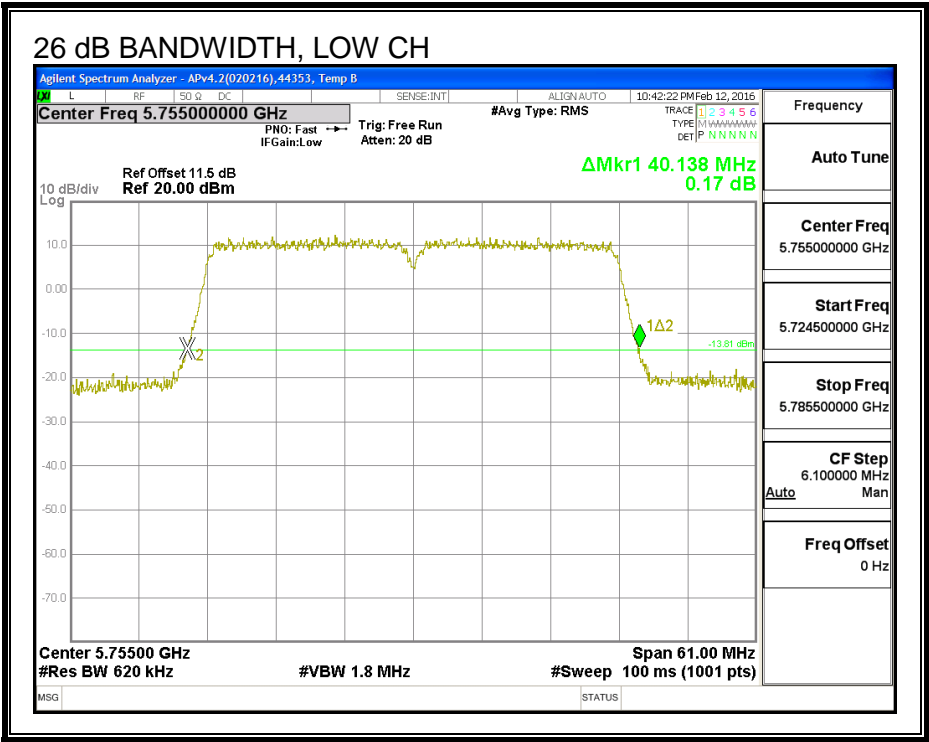
#### RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5755	40.80	40.14
High	5795	40.38	40.14

26 dB BANDWIDTH, CHAIN 0



26 dB BANDWIDTH, CHAIN 1



### 8.64.3. 99% BANDWIDTH

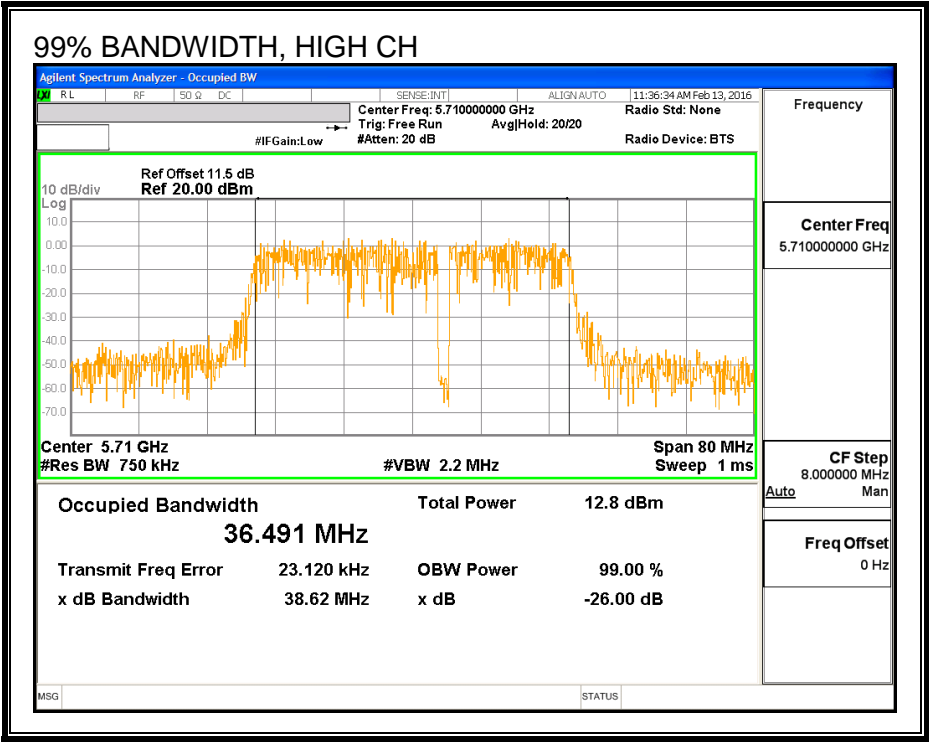
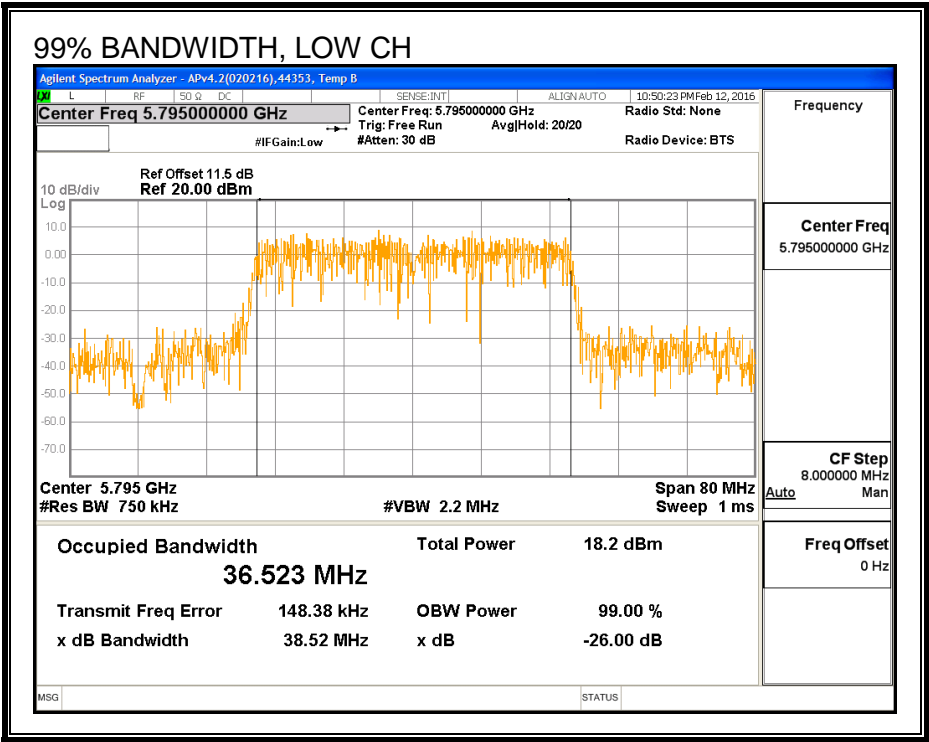
#### LIMITS

None; for reporting purposes only.

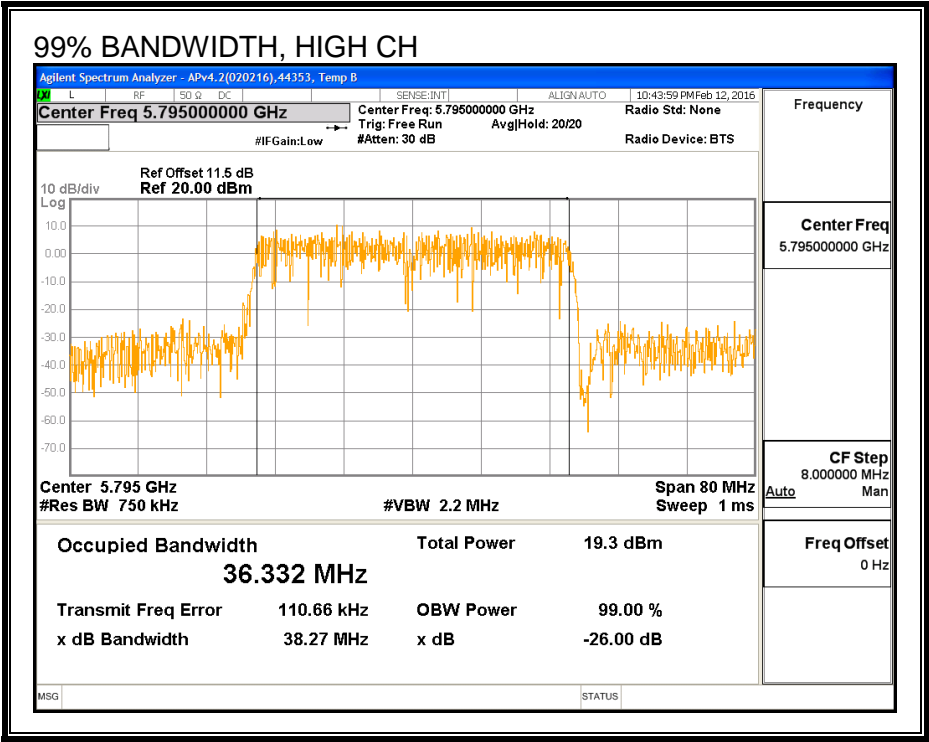
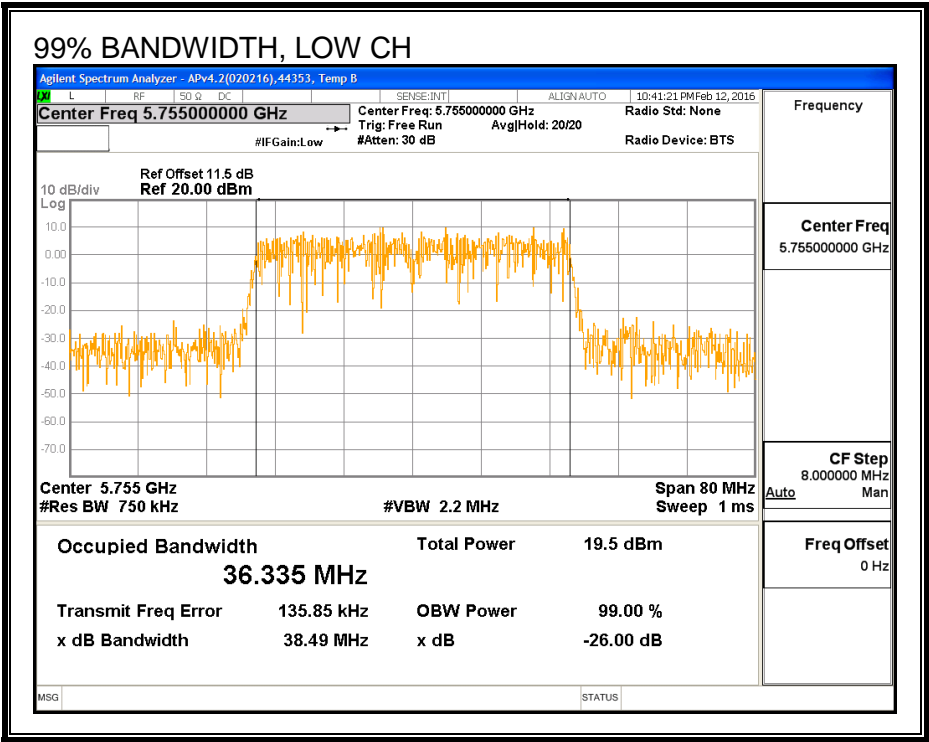
#### RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5755	36.523	36.335
High	5795	36.491	36.332

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



#### 8.64.4. 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	5755	12.48	12.45	15.48
High	5795	15.88	15.93	18.92

## 8.64.5. OUTPUT POWER

### LIMITS

FCC §15.407 (a) (3)

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

### TEST PROCEDURE

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

### DIRECTIONAL ANTENNA GAIN

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

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
4.78	5.26	5.03

## **RESULTS**

### **Antenna Gain and Limit**

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5755	5.03	30.00
High	5795	5.03	30.00

### **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	5755	12.48	12.45	15.48	30.00	-14.52
High	5795	15.88	15.93	18.92	30.00	-11.08

### 8.64.6. PSD

#### LIMITS

FCC §15.407 (a) (3)

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

#### DIRECTIONAL ANTENNA GAIN

The TX chains are 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)
4.78	5.26	5.03

## RESULTS

### Antenna Gain and Limit

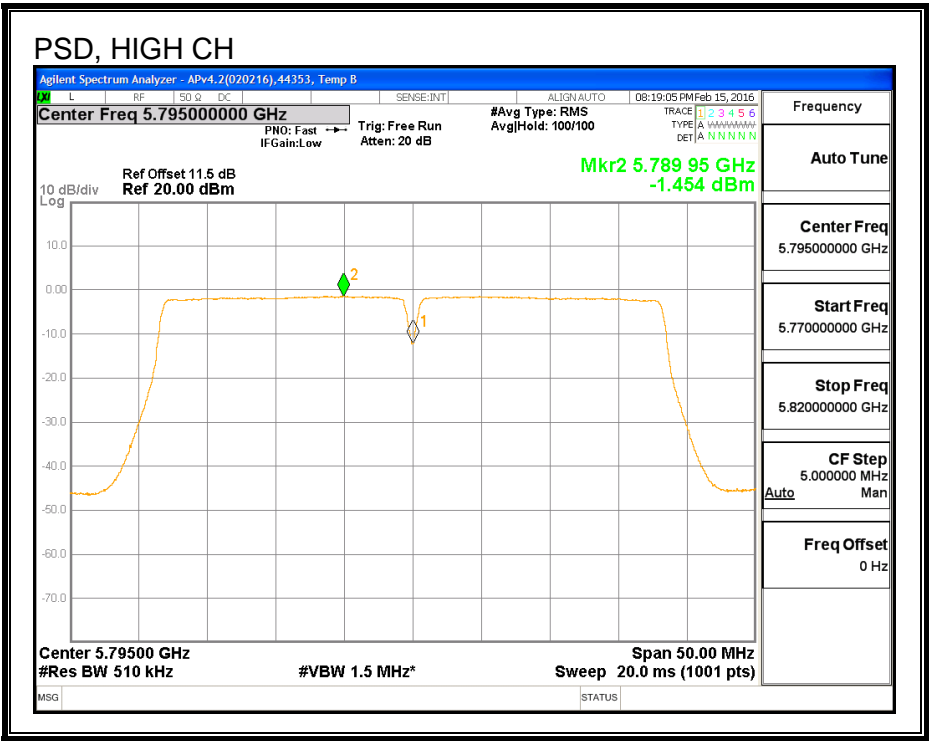
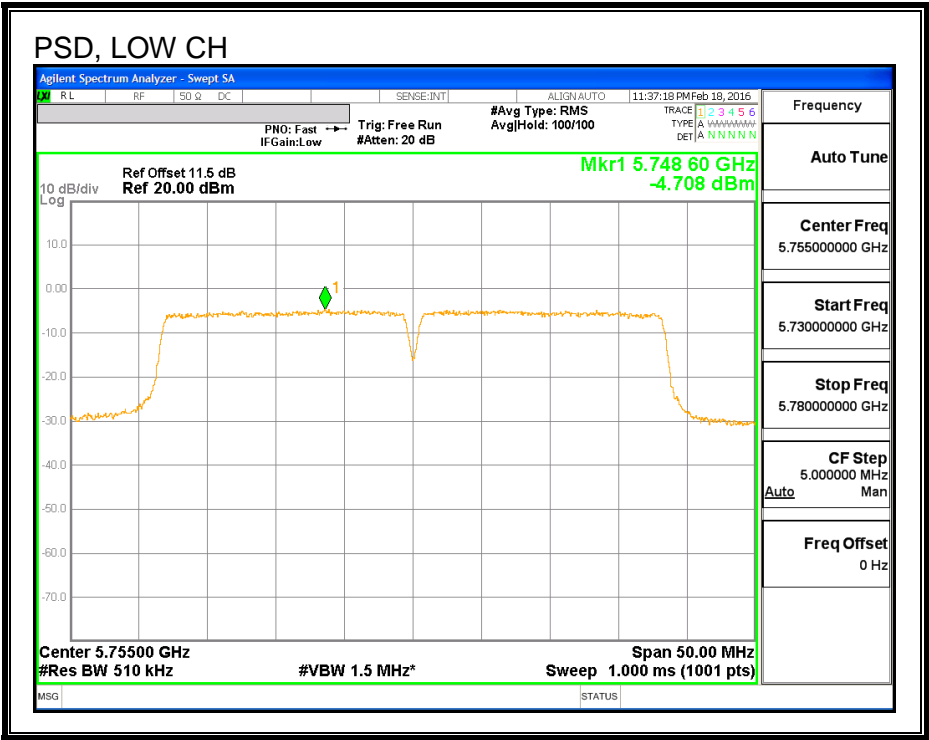
Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Low	5755	5.03	30.00
High	5795	5.03	30.00

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

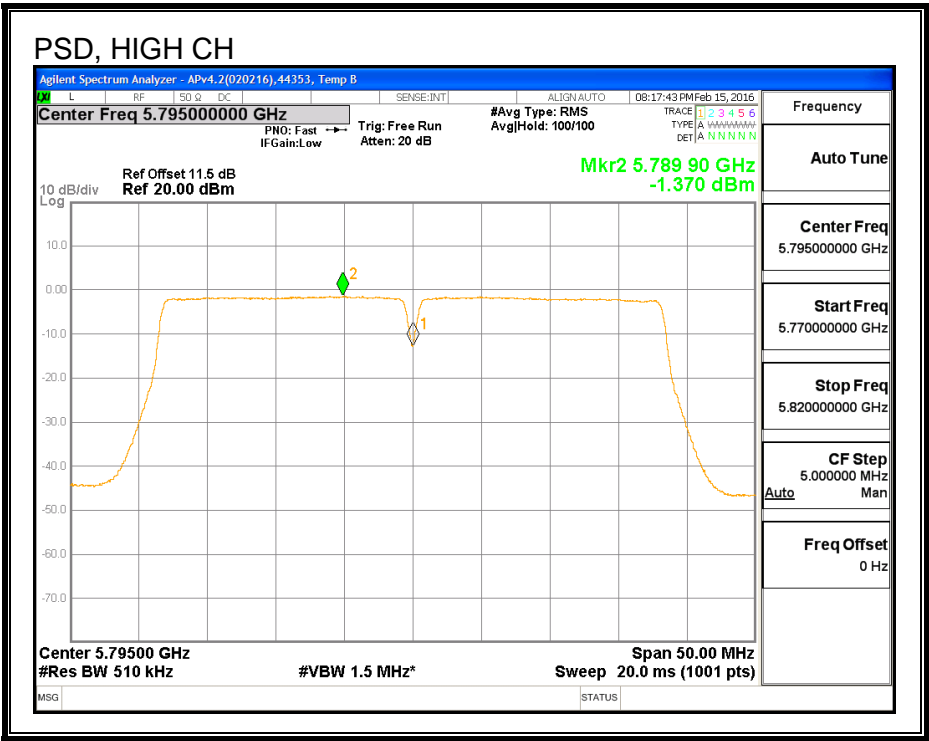
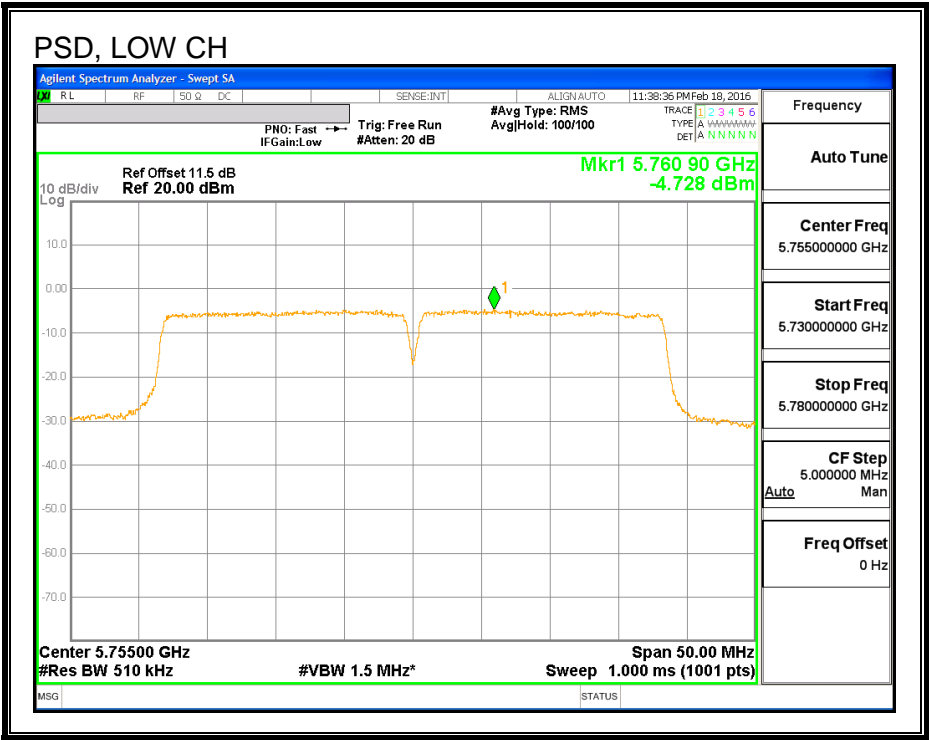
### PSD Results

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	5755	-4.71	-4.73	-1.71	30.00	-31.71
High	5795	-1.45	-1.37	1.60	30.00	-28.40

PSD, CHAIN 0



PSD, CHAIN 1



## **8.65. 802.11ac VHT40 2Tx BEAM FORMING MODE IN THE 5.8 GHz BAND**

### **8.65.1. 6 dB BANDWIDTH**

#### **LIMITS**

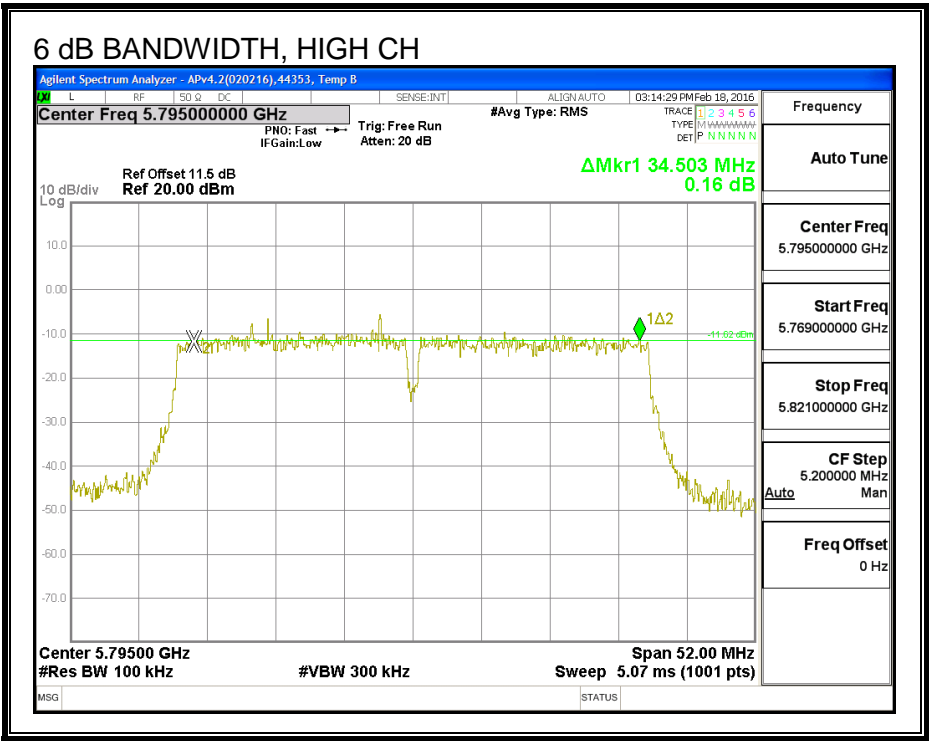
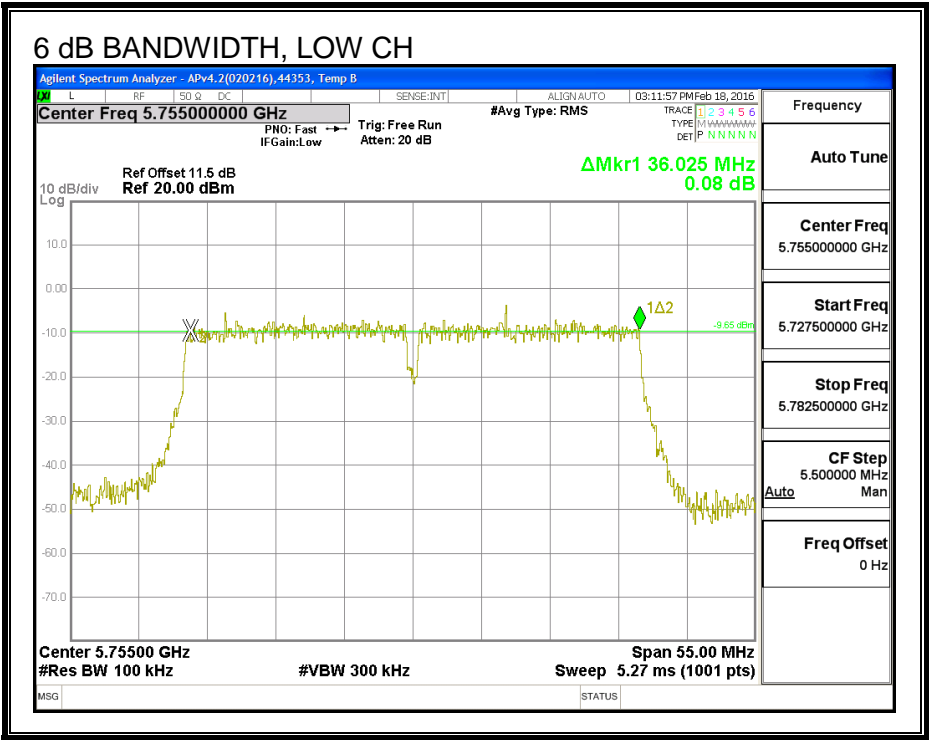
FCC §15.407 (e)

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

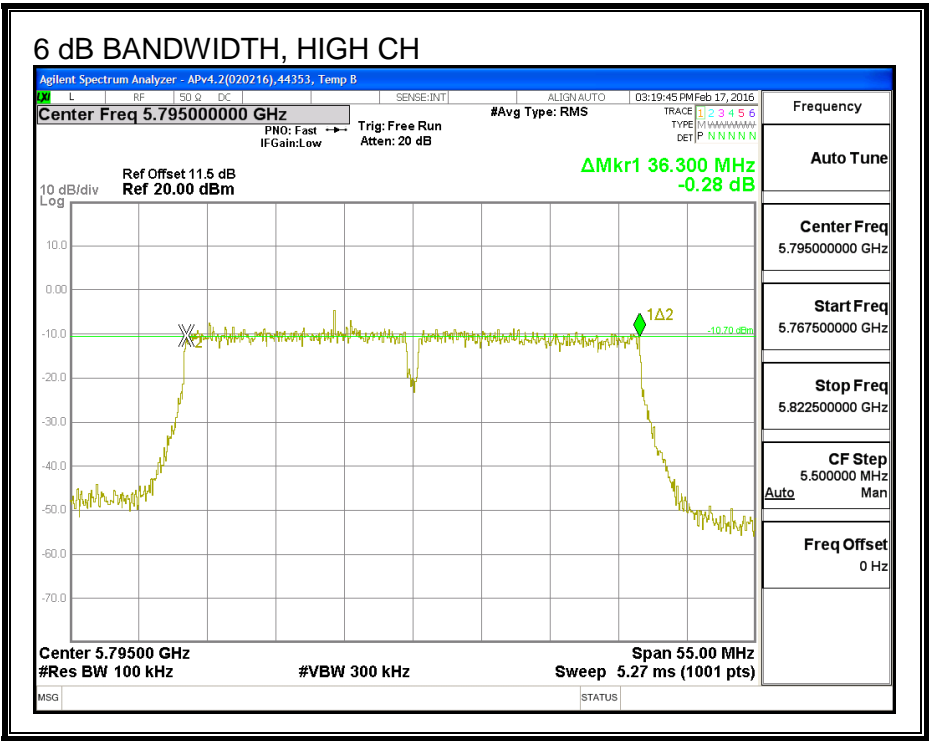
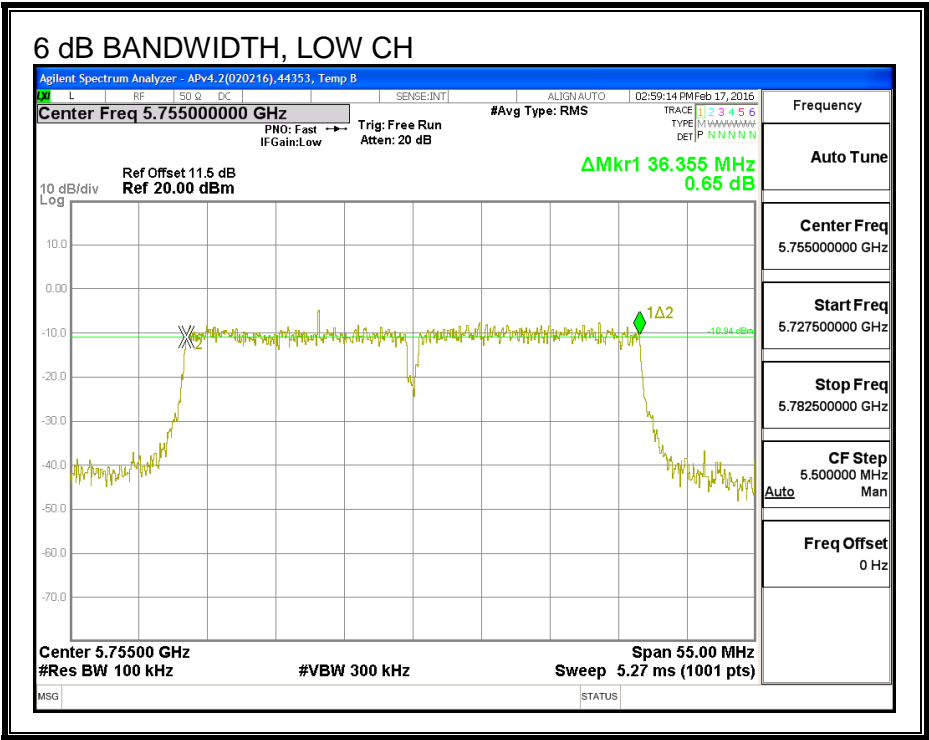
#### **RESULTS**

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	5755	36.03	36.36	0.5
High	5795	34.50	36.30	0.5

6 dB BANDWIDTH, CHAIN 0



6 dB BANDWIDTH, CHAIN 1



## 8.65.2. 26 dB BANDWIDTH

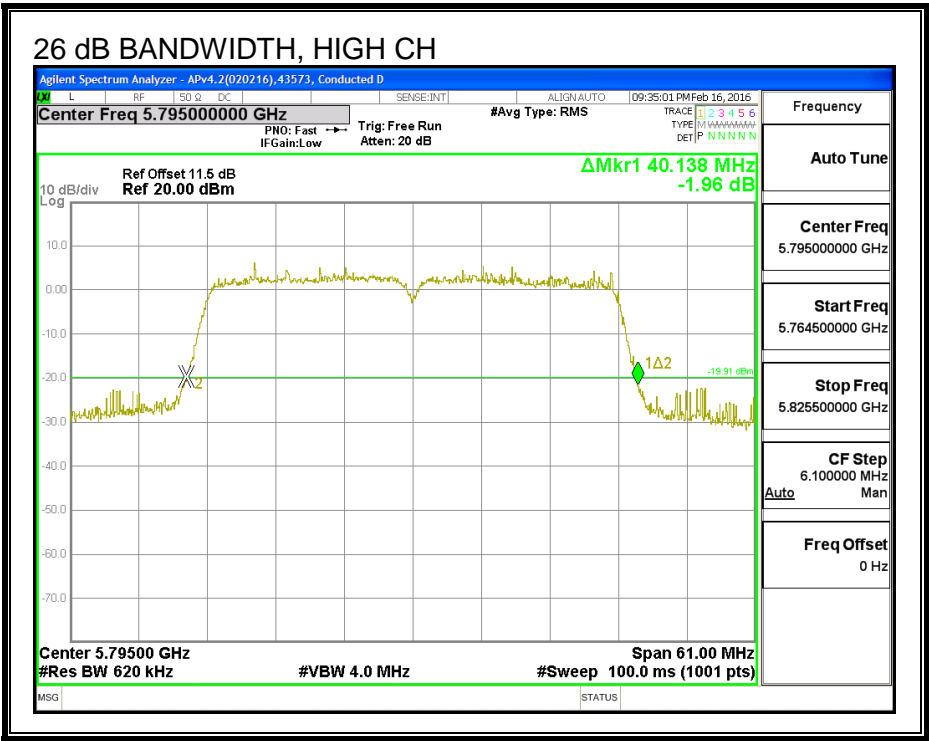
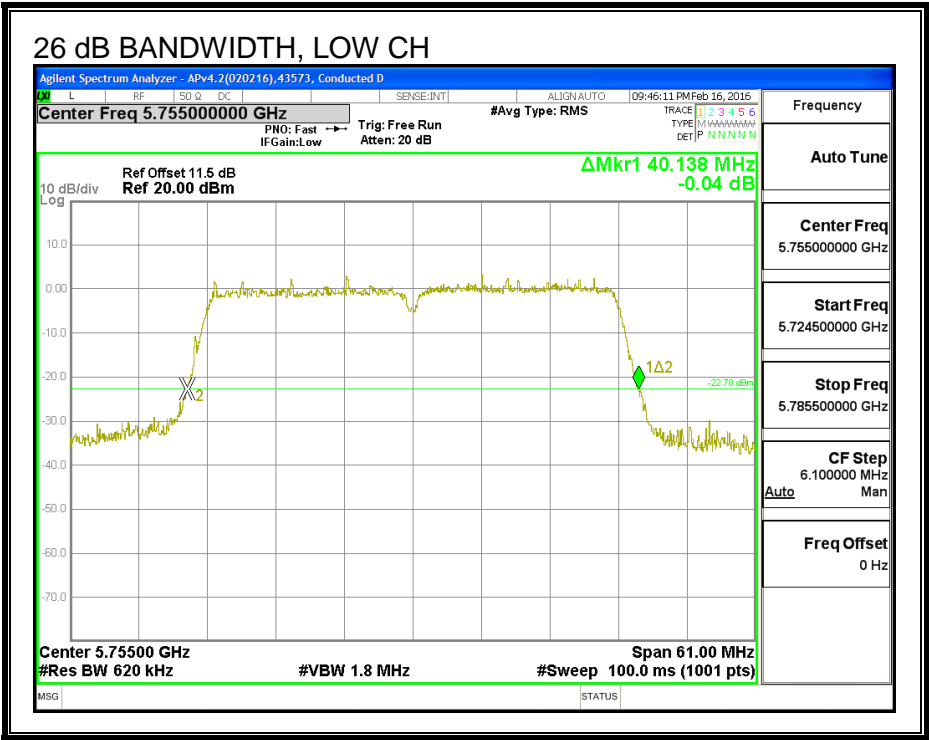
### LIMITS

None, for reporting purposes only.

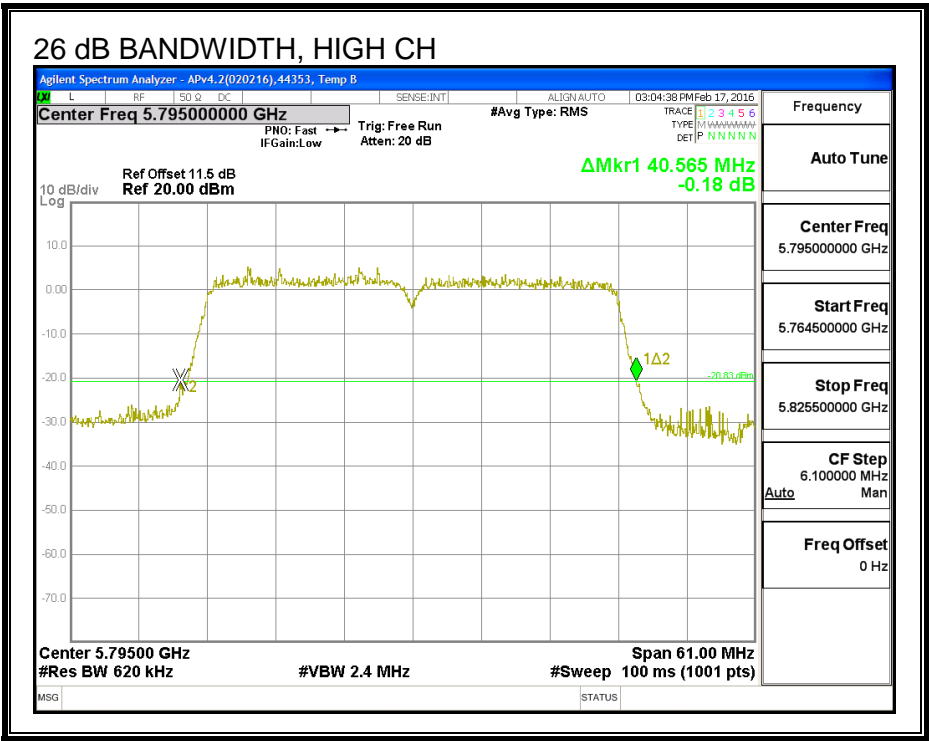
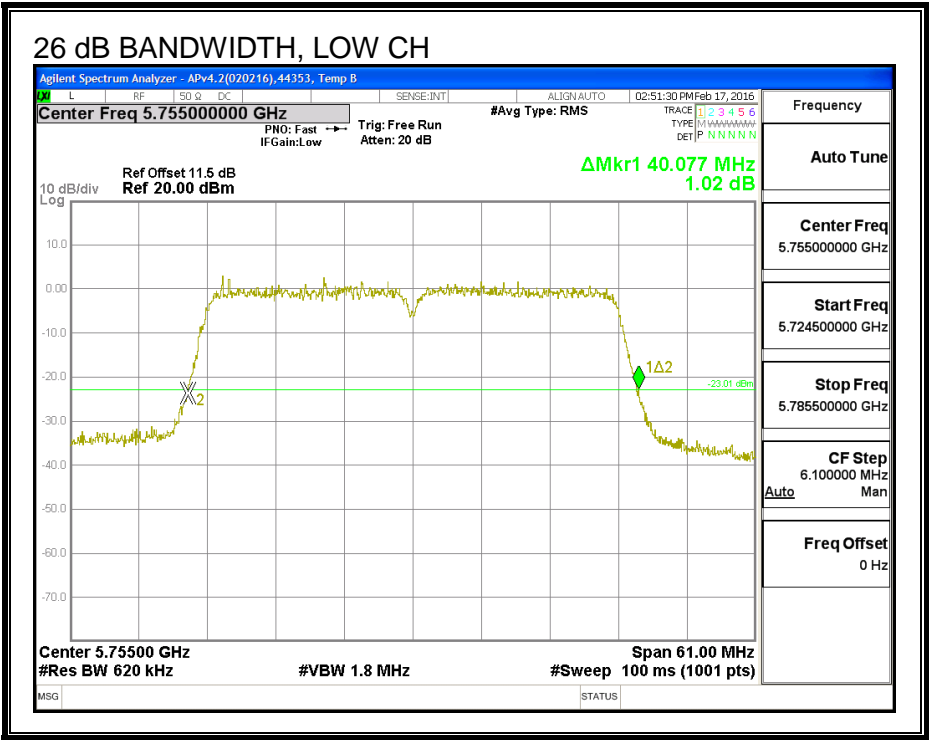
### RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5755	40.14	40.08
High	5795	40.14	40.57

26 dB BANDWIDTH, CHAIN 0



26 dB BANDWIDTH, CHAIN 1



### 8.65.3. 99% BANDWIDTH

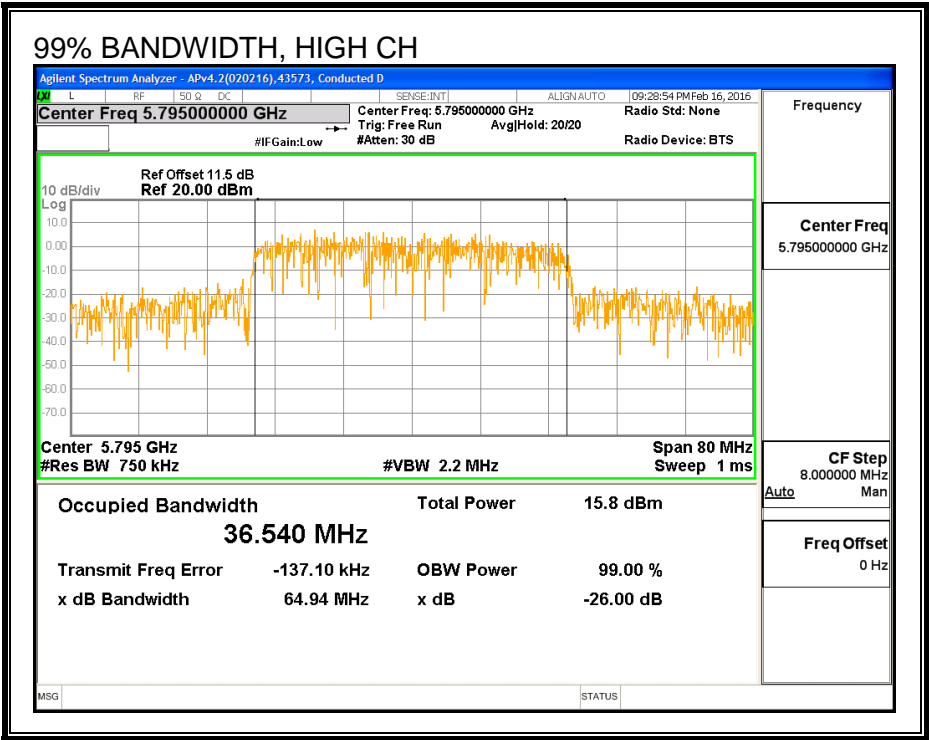
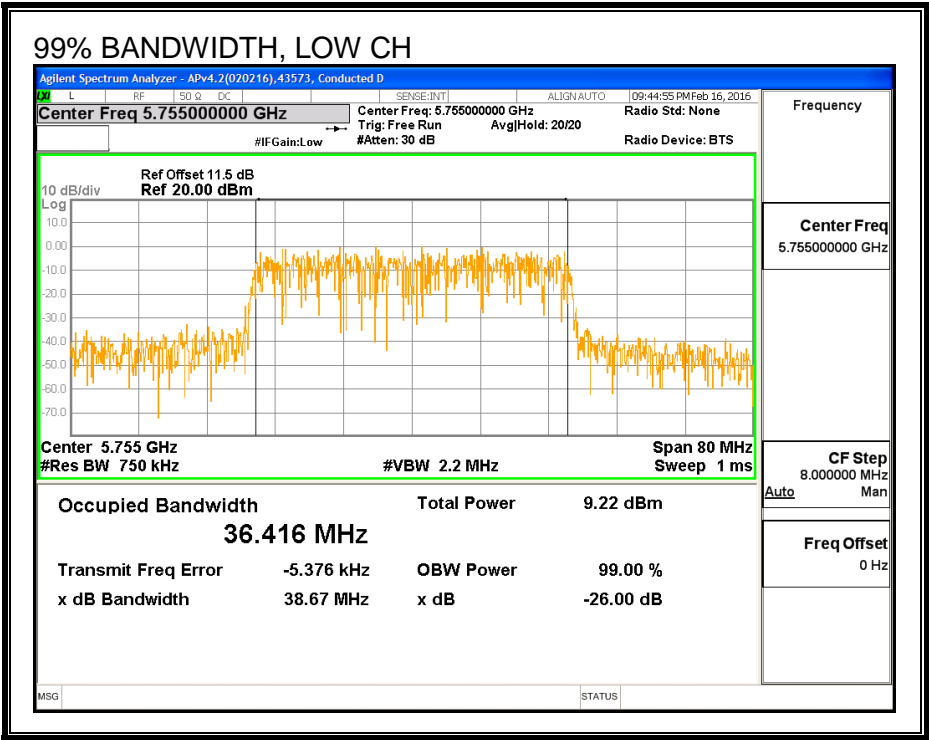
#### LIMITS

None; for reporting purposes only.

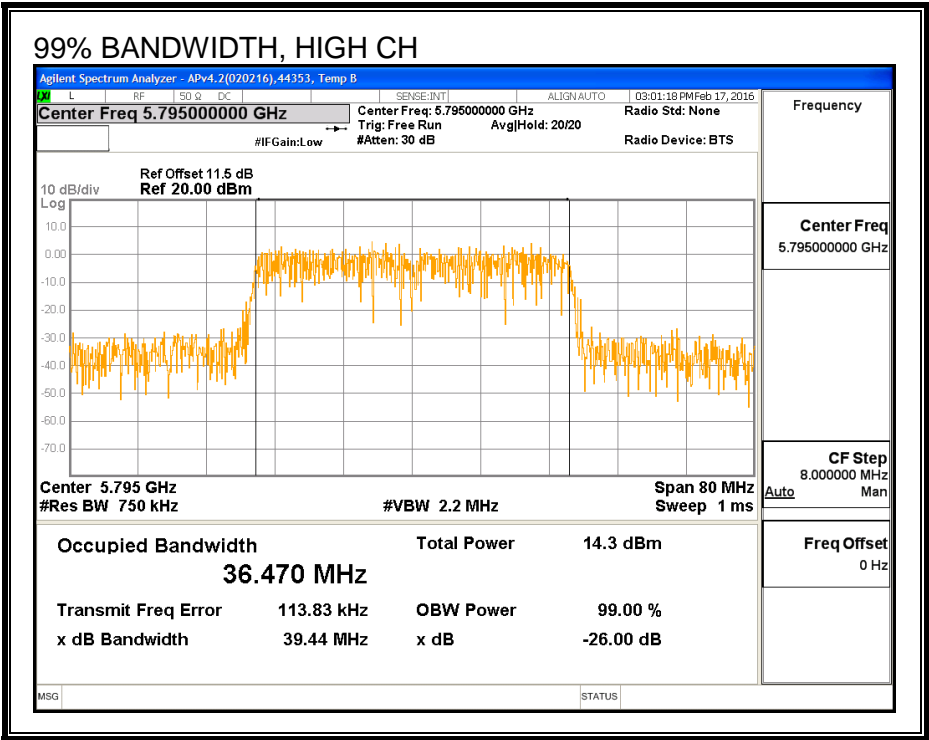
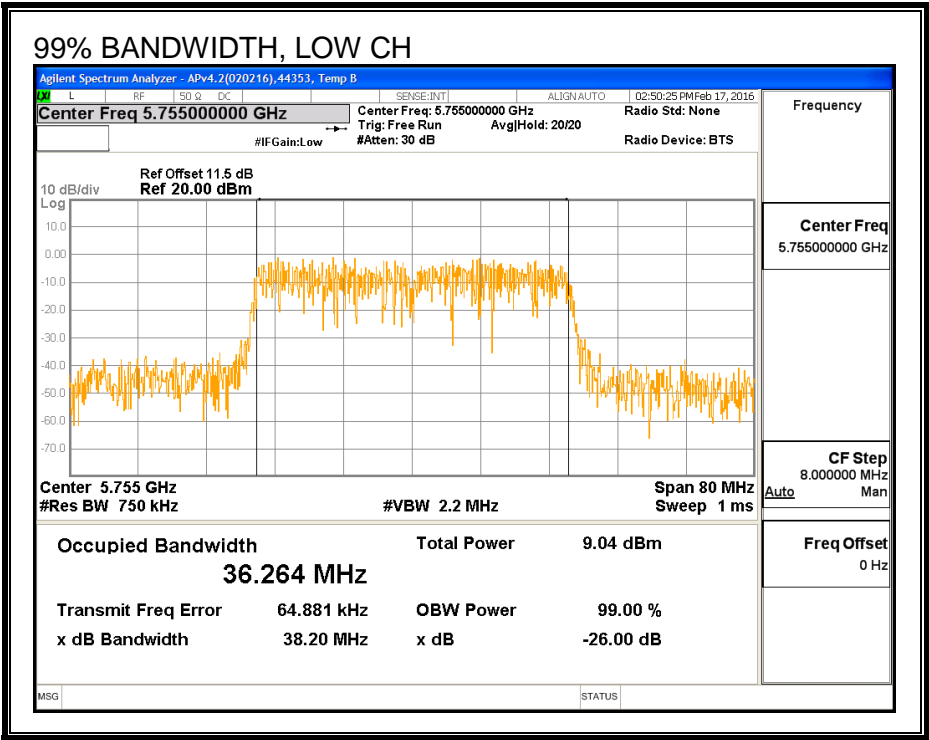
#### RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5755	36.416	36.264
High	5795	36.540	36.470

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



#### 8.65.4. 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	5755	9.36	9.43	12.41
High	5795	15.42	15.39	18.42

## 8.65.5. OUTPUT POWER

### LIMITS

FCC §15.407 (a) (3)

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

### TEST PROCEDURE

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

### DIRECTIONAL ANTENNA GAIN

The TX chains are 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)
4.78	5.26	8.03

## **RESULTS**

### **Antenna Gain and Limit**

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5755	8.03	27.97
High	5795	8.03	27.97

### **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	5755	9.36	9.43	12.41	27.97	-15.56
High	5795	15.42	15.39	18.42	27.97	-9.55

### 8.65.6. PSD

#### LIMITS

FCC §15.407 (a) (3)

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

#### DIRECTIONAL ANTENNA GAIN

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

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
4.78	5.26	8.03

## RESULTS

### Antenna Gain and Limit

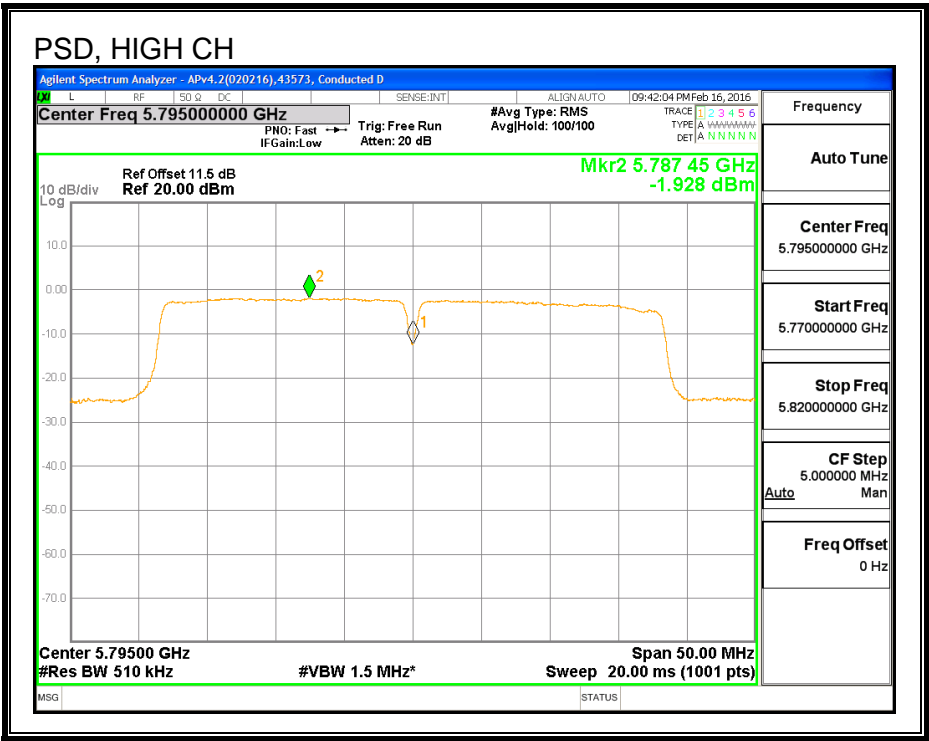
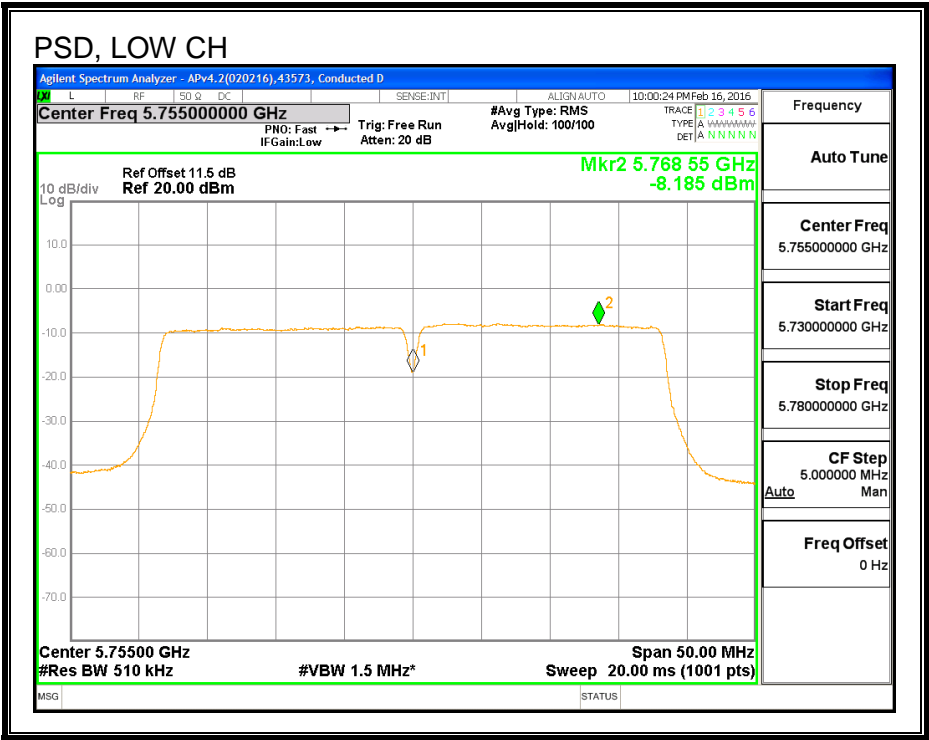
Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Low	5755	8.03	27.97
High	5795	8.03	27.97

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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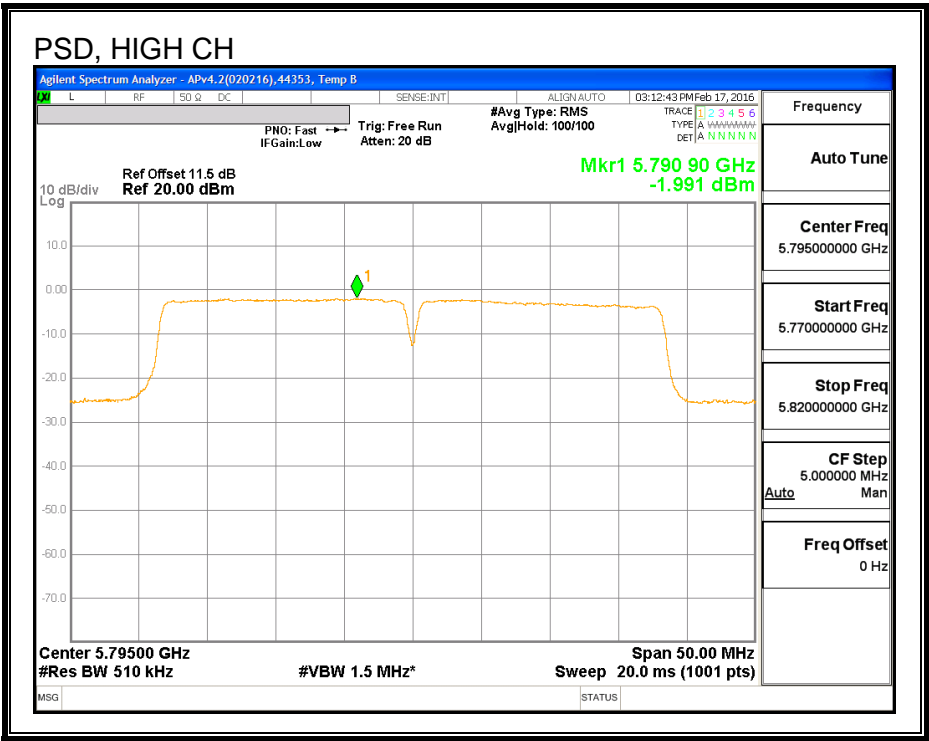
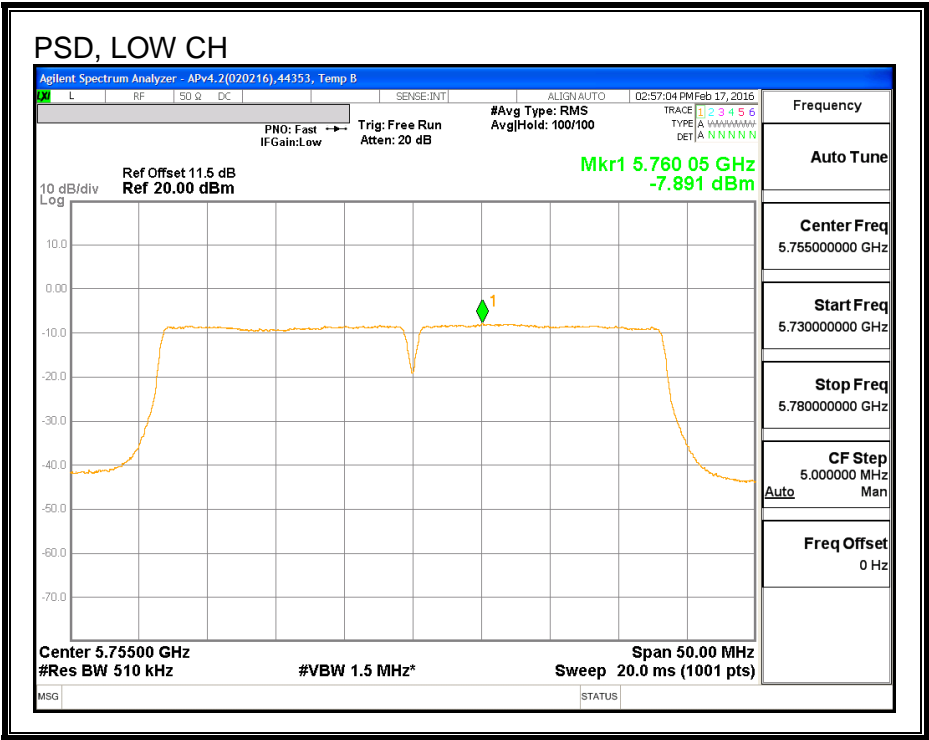
### PSD Results

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	5755	-8.19	-7.89	-4.94	27.97	-32.91
High	5795	-1.93	-1.99	1.14	27.97	-26.83

PSD, CHAIN 0



PSD, CHAIN 1



8.66. 802.11ac VHT80 CHAIN 0 MODE IN THE 5.8 GHz BAND

8.66.1. 6 dB BANDWIDTH

LIMITS

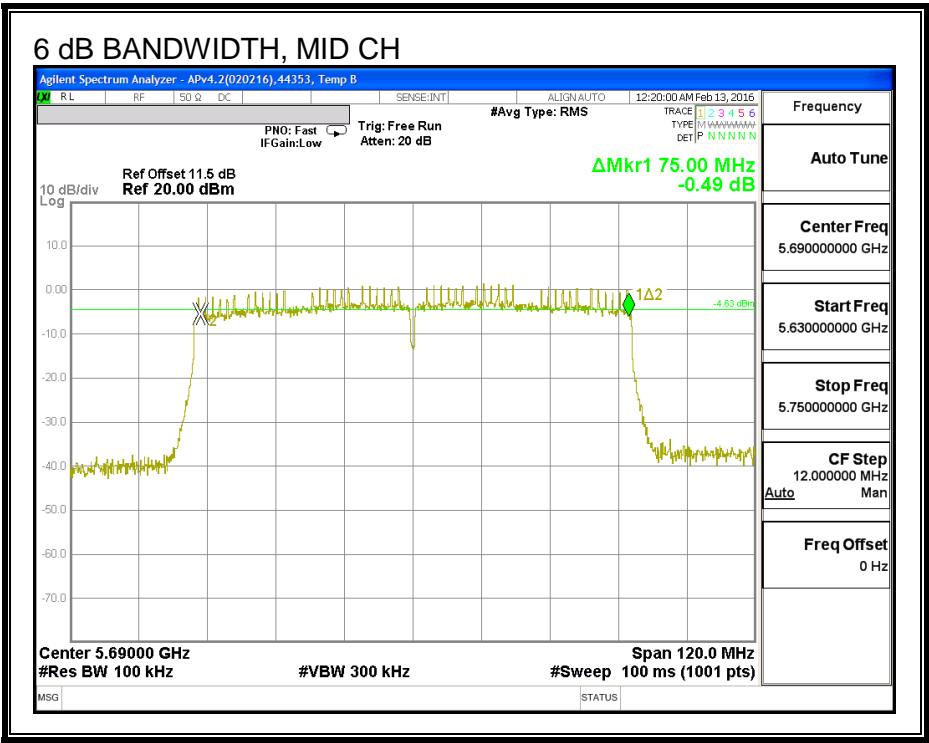
FCC §15.407 (e)

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

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	75.00	0.5

6 dB BANDWIDTH



8.66.2. 26 dB BANDWIDTH

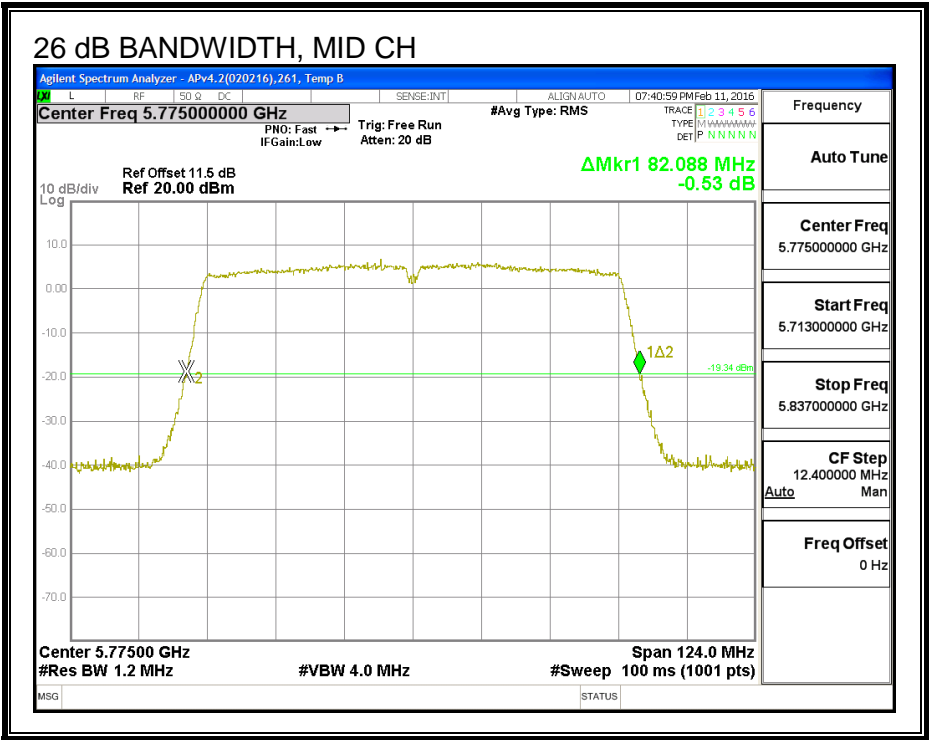
LIMITS

None, for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Mid	5775	82.09

26 dB BANDWIDTH



8.66.3. 99% BANDWIDTH

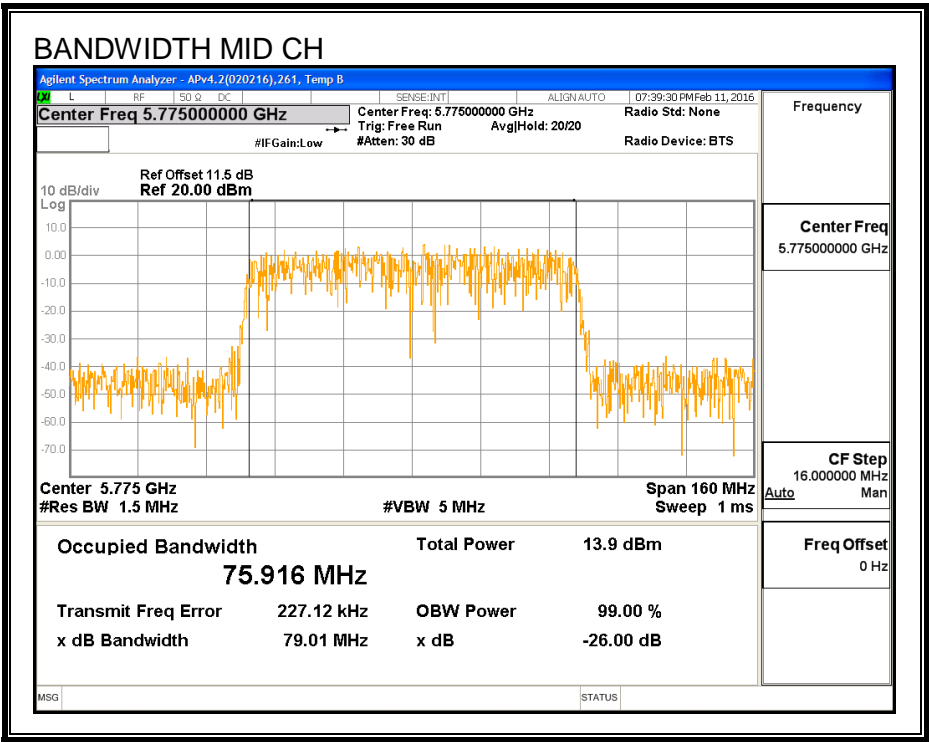
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	75.916

99% BANDWIDTH



#### **8.66.4. 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	5775	13.50

## **8.66.5. OUTPUT POWER**

### **LIMITS**

FCC §15.407 (a) (3)

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

### **TEST PROCEDURE**

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

### **DIRECTIONAL ANTENNA GAIN**

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

## **RESULTS**

### **Antenna Gain and Limit**

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	4.78	30.00

### **Output Power Results**

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	13.50	13.50	30.00	-16.50

## 8.66.6. PSD

### LIMITS

FCC §15.407 (a) (3)

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

### DIRECTIONAL ANTENNA GAIN

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

### RESULTS

#### Antenna Gain and Limits

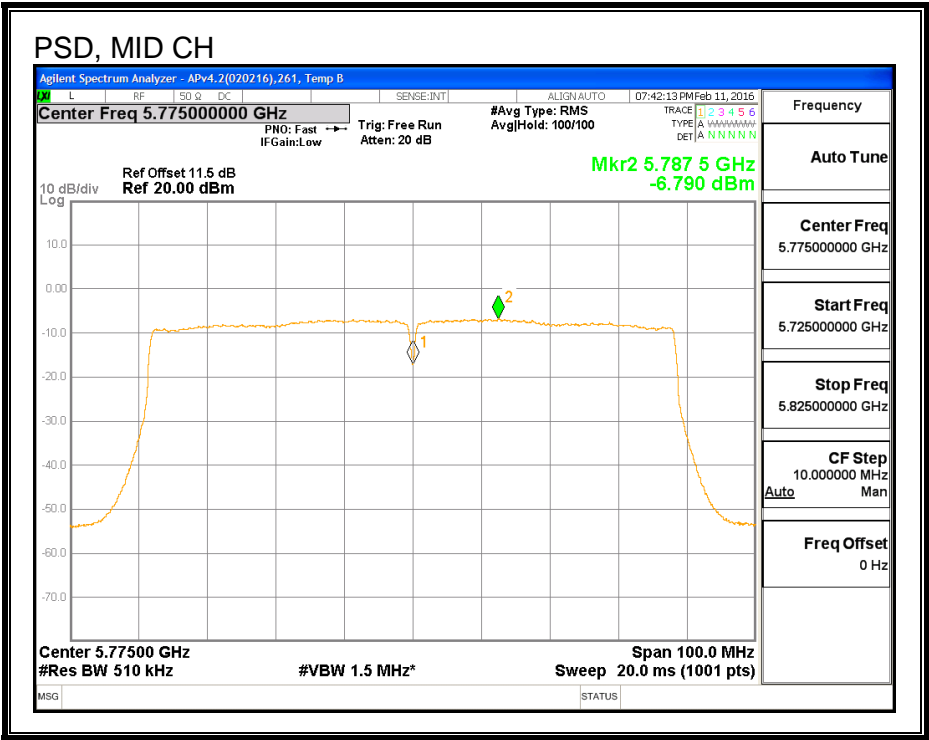
Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5775	4.78	30.00

Duty Cycle CF (dB)	0.16	Included in Calculations of Corr'd PSD
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#### PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5775	-6.79	-6.63	30.00	-36.63

PSD



8.67. 802.11ac VHT80 CHAIN 1 MODE IN THE 5.8 GHz BAND

8.67.1. 6 dB BANDWIDTH

LIMITS

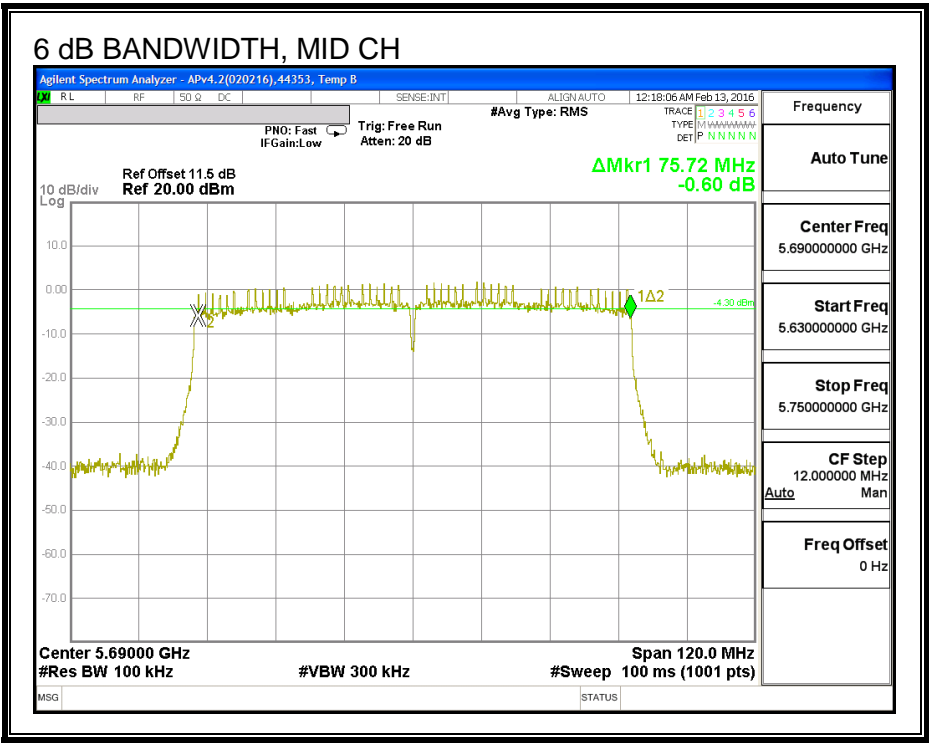
FCC §15.407 (e)

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

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	75.72	0.5

6 dB BANDWIDTH



8.67.2. 26 dB BANDWIDTH

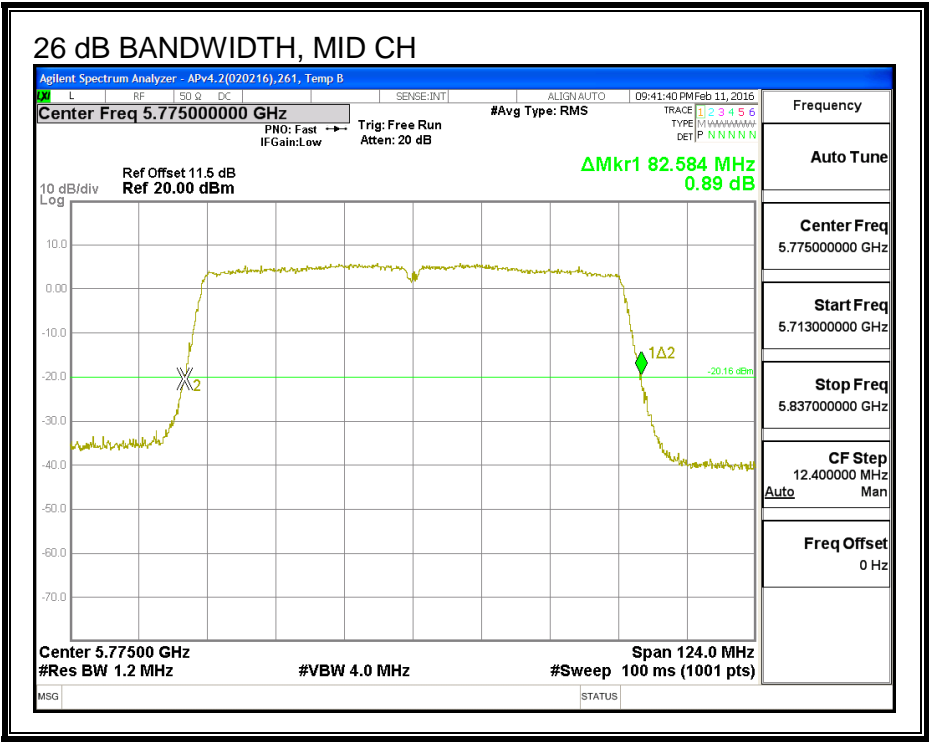
LIMITS

None, for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Mid	5775	82.58

26 dB BANDWIDTH



8.67.3. 99% BANDWIDTH

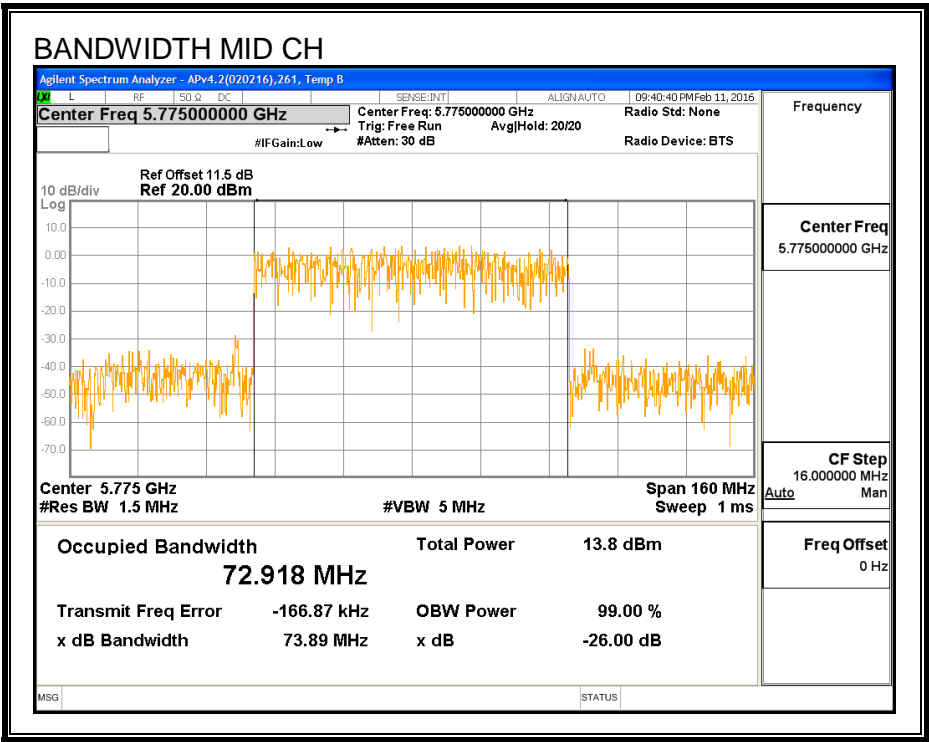
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	72.918

99% BANDWIDTH



#### 8.67.4. 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	5775	13.40

## **8.67.5. OUTPUT POWER**

### **LIMITS**

FCC §15.407 (a) (3)

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

### **TEST PROCEDURE**

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

### **DIRECTIONAL ANTENNA GAIN**

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

## **RESULTS**

### **Antenna Gain and Limit**

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	5.26	30.00

### **Output Power Results**

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	13.40	13.40	30.00	-16.60

## 8.67.6. PSD

### LIMITS

FCC §15.407 (a) (3)

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

### DIRECTIONAL ANTENNA GAIN

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

### RESULTS

#### Antenna Gain and Limits

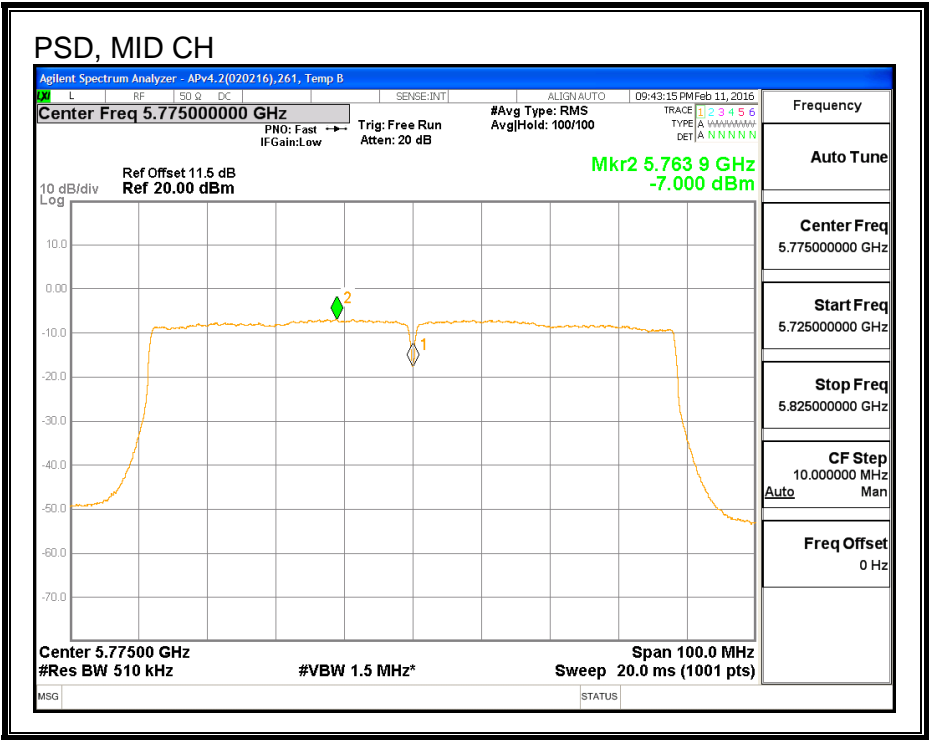
Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5775	5.26	30.00

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

#### PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5775	-7.00	-6.84	30.00	-36.84

PSD



## **8.68. 802.11ac VHT80 2Tx CDD MODE IN THE 5.8 GHz BAND**

### **8.68.1. 6 dB BANDWIDTH**

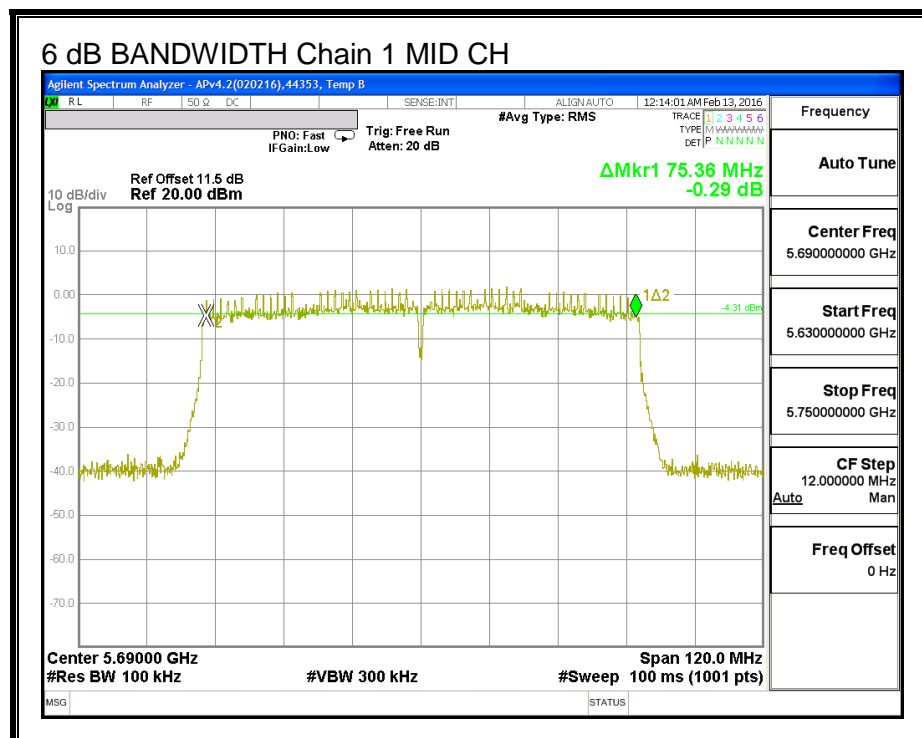
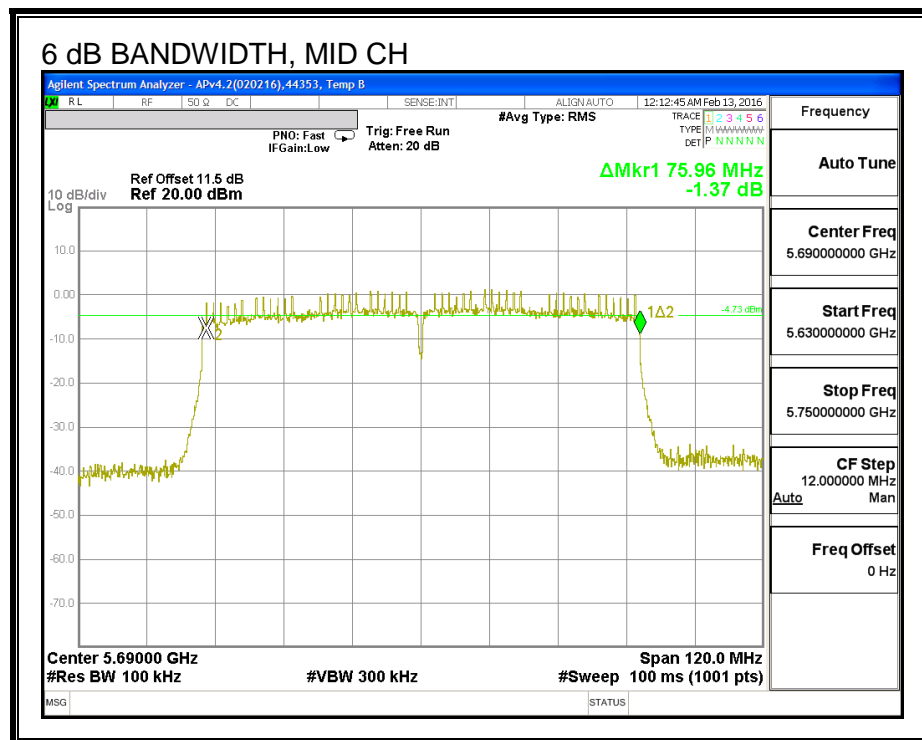
#### **LIMITS**

FCC §15.407 (e)

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

#### **RESULTS**

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Mid	5775	75.96	75.36	0.5



### 8.68.2. 26 dB BANDWIDTH

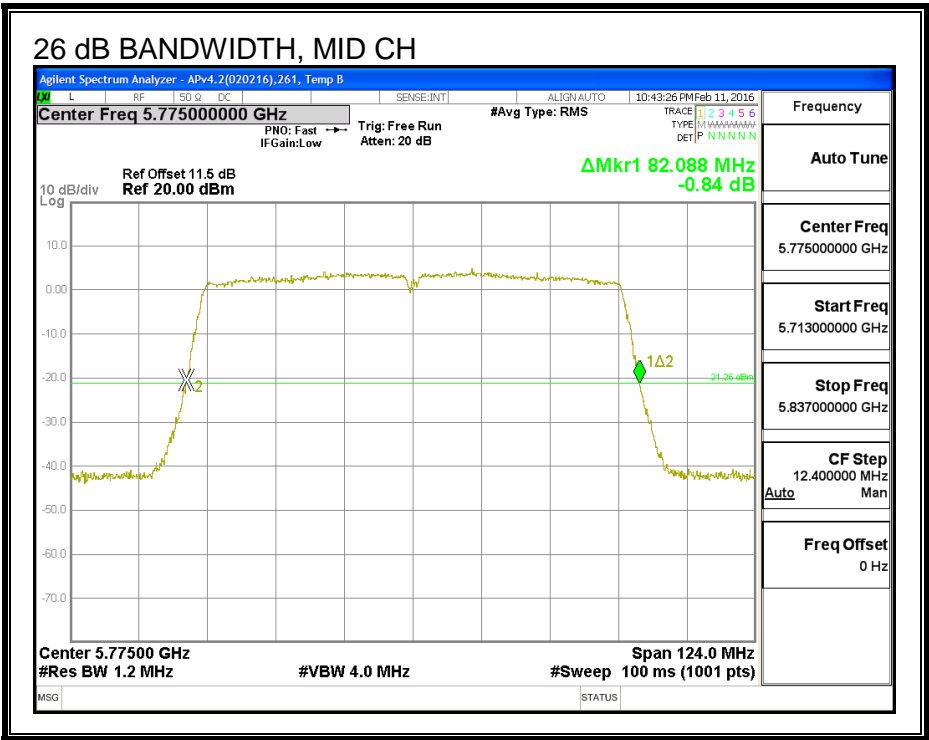
#### LIMITS

None, for reporting purposes only.

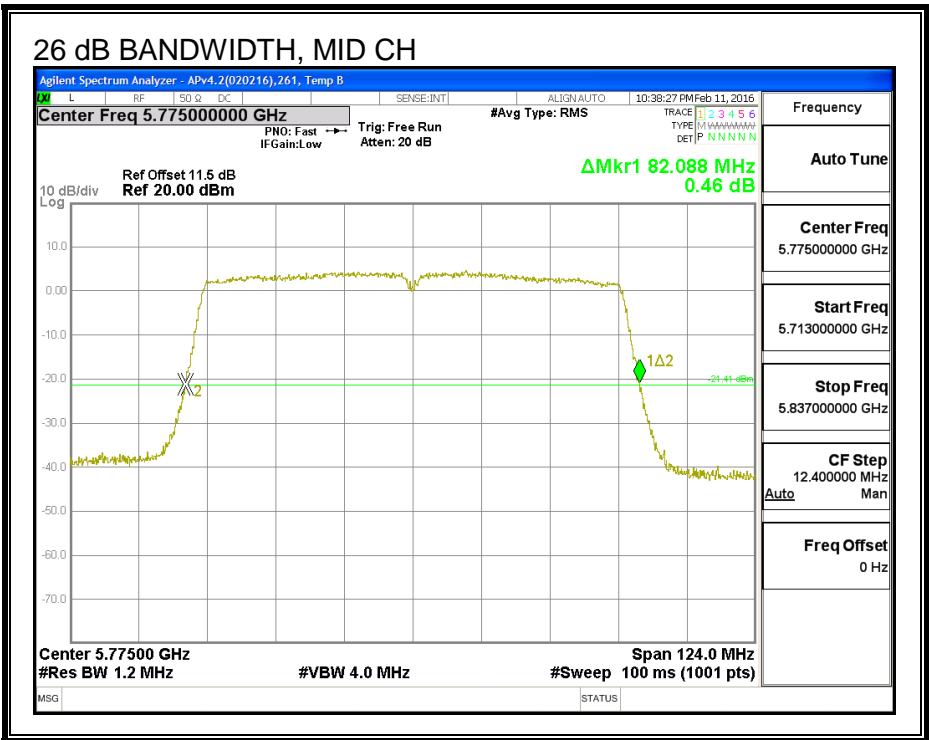
#### RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Mid	5775	82.09	82.09

26 dB BANDWIDTH, CHAIN 0



26 dB BANDWIDTH, CHAIN 1



### 8.68.3. 99% BANDWIDTH

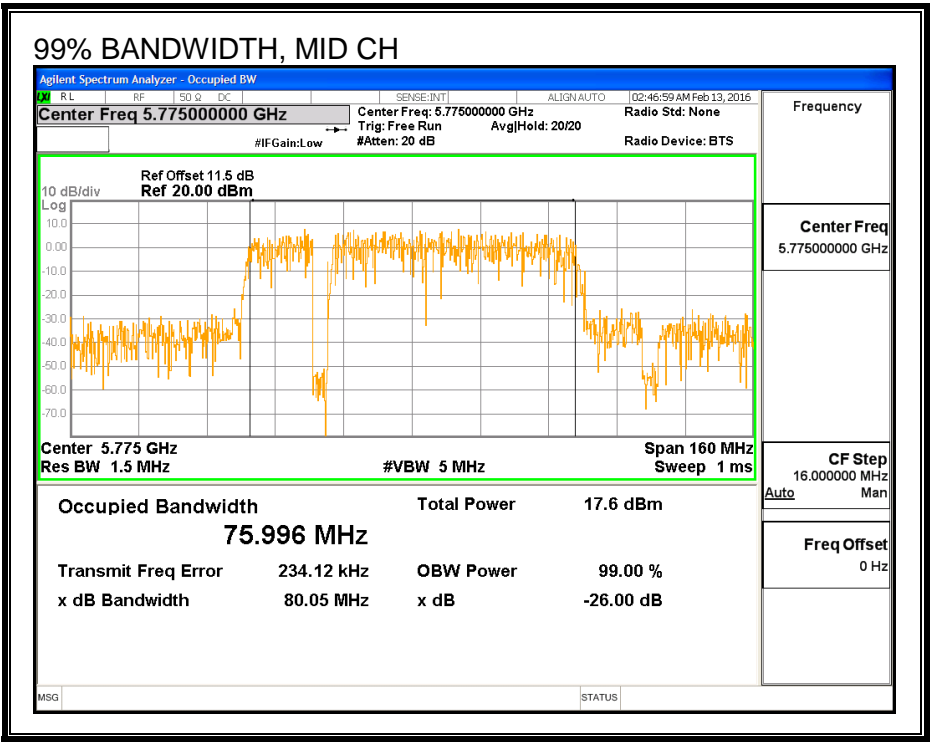
#### LIMITS

None; for reporting purposes only.

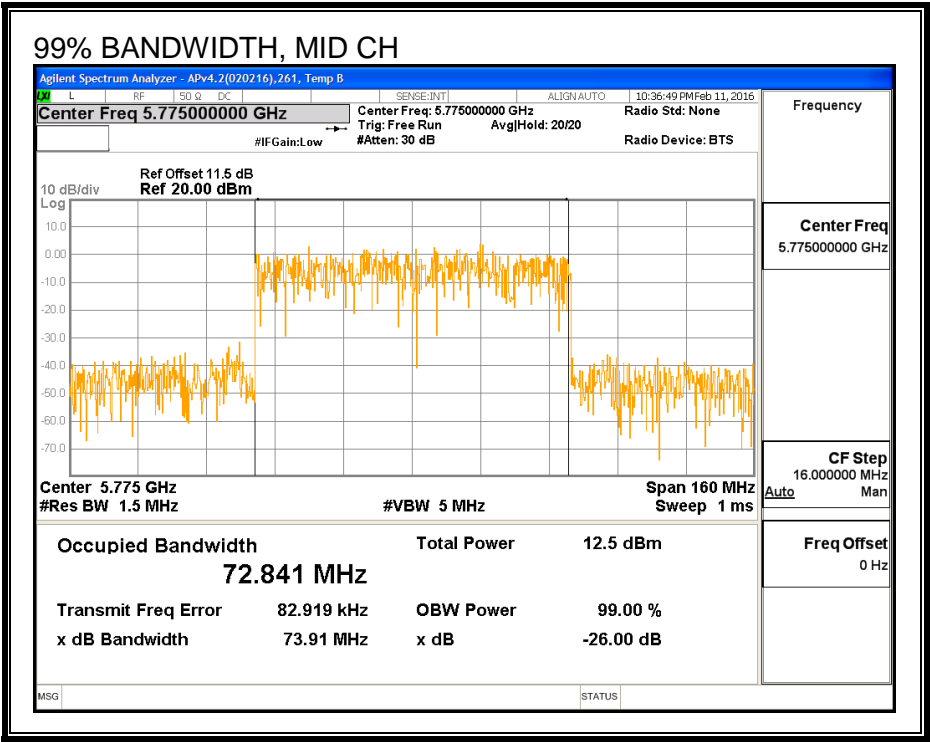
#### RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Mid	5775	75.996	72.841

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



#### 8.68.4. 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)
Mid	5775	11.72	11.85	14.80

## 8.68.5. OUTPUT POWER

### LIMITS

FCC §15.407 (a) (3)

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

### TEST PROCEDURE

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

### DIRECTIONAL ANTENNA GAIN

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

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
4.78	5.26	5.03

## **RESULTS**

### **Antenna Gain and Limit**

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	5.03	30.00

### **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	5775	11.72	11.85	14.80	30.00	-15.20

### 8.68.6. PSD

#### LIMITS

FCC §15.407 (a) (3)

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

#### DIRECTIONAL ANTENNA GAIN

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

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
4.78	5.26	8.03

## RESULTS

### Antenna Gain and Limit

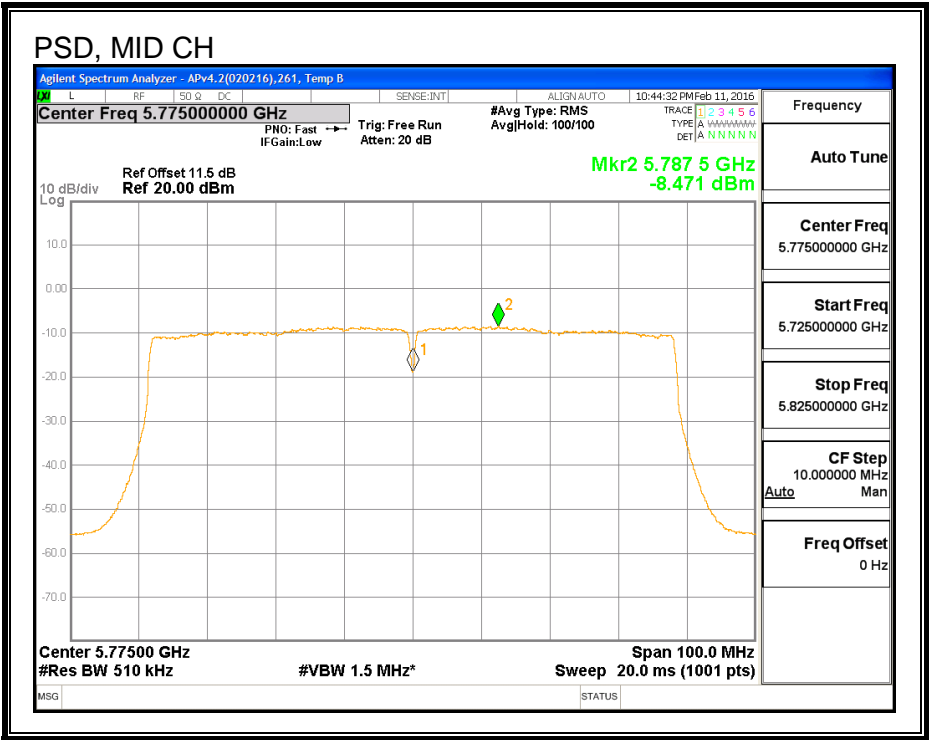
Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5775	8.03	27.97

Duty Cycle CF (dB)	0.21	Included in Calculations of Corr'd PSD
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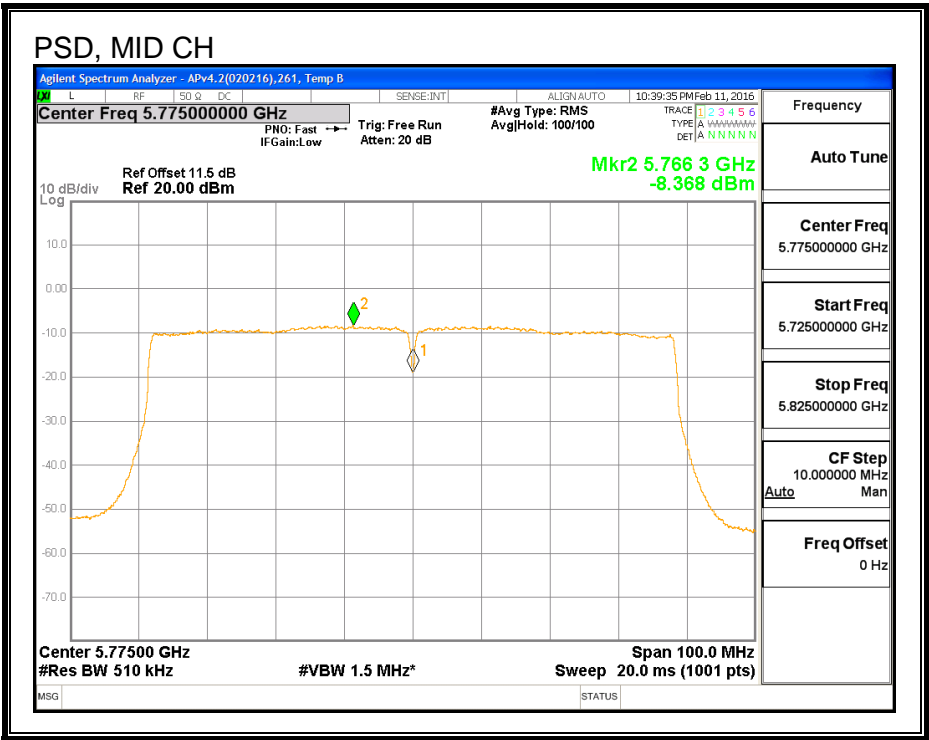
### PSD Results

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	5775	-8.47	-8.37	-5.20	27.97	-33.17

PSD, CHAIN 0



PSD, CHAIN 1



## **8.69. 802.11ac VHT80 2Tx STBC MODE IN THE 5.8 GHz BAND**

### **8.69.1. 6 dB BANDWIDTH**

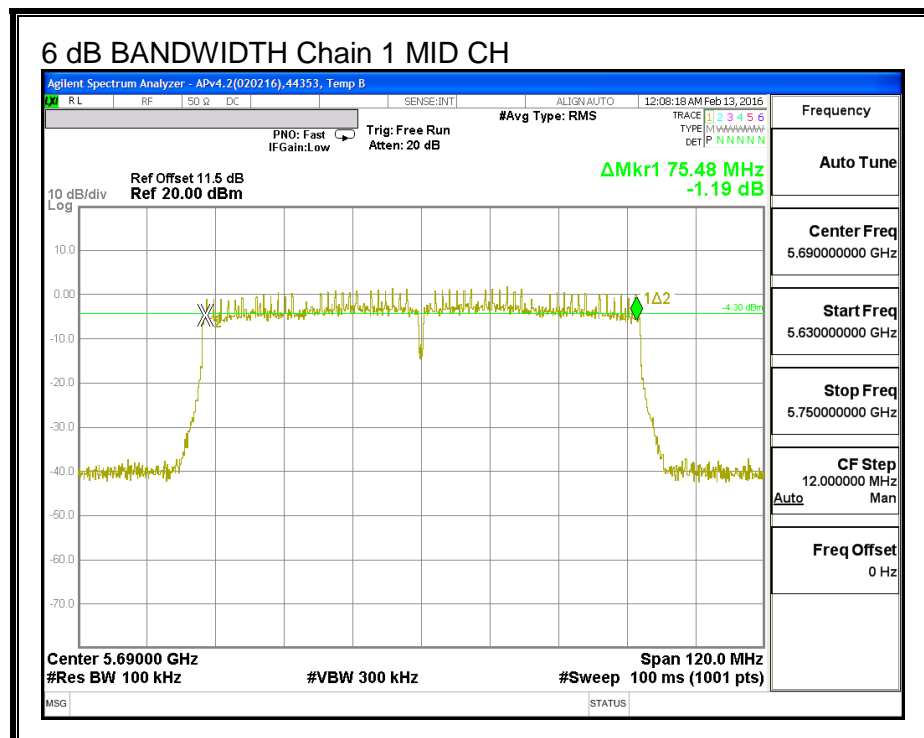
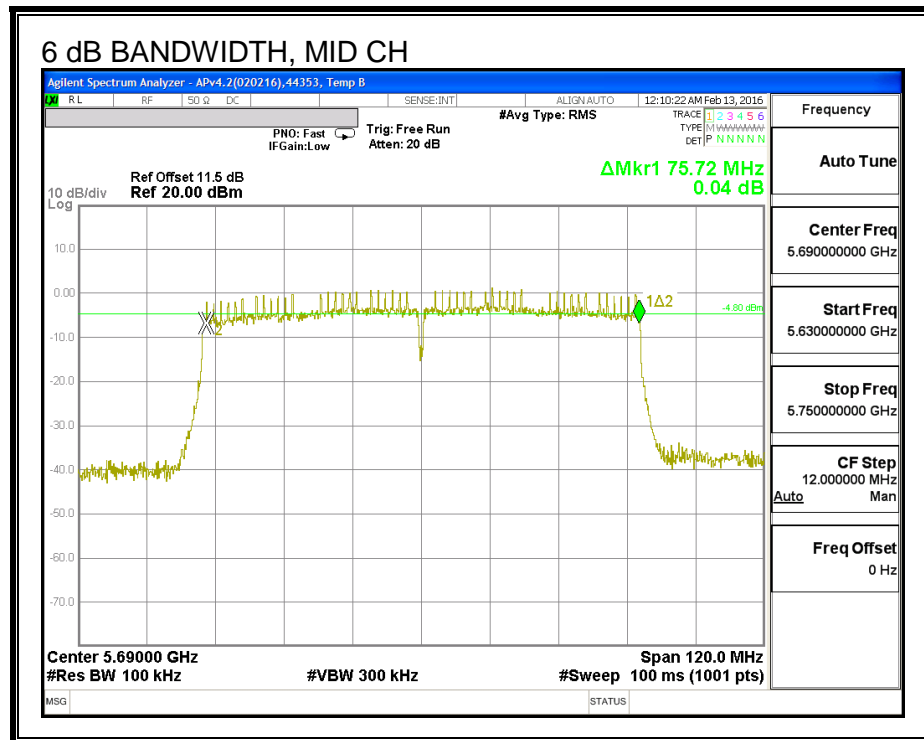
#### **LIMITS**

FCC §15.407 (e)

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

#### **RESULTS**

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Mid	5775	75.72	75.48	0.5



### 8.69.2. 26 dB BANDWIDTH

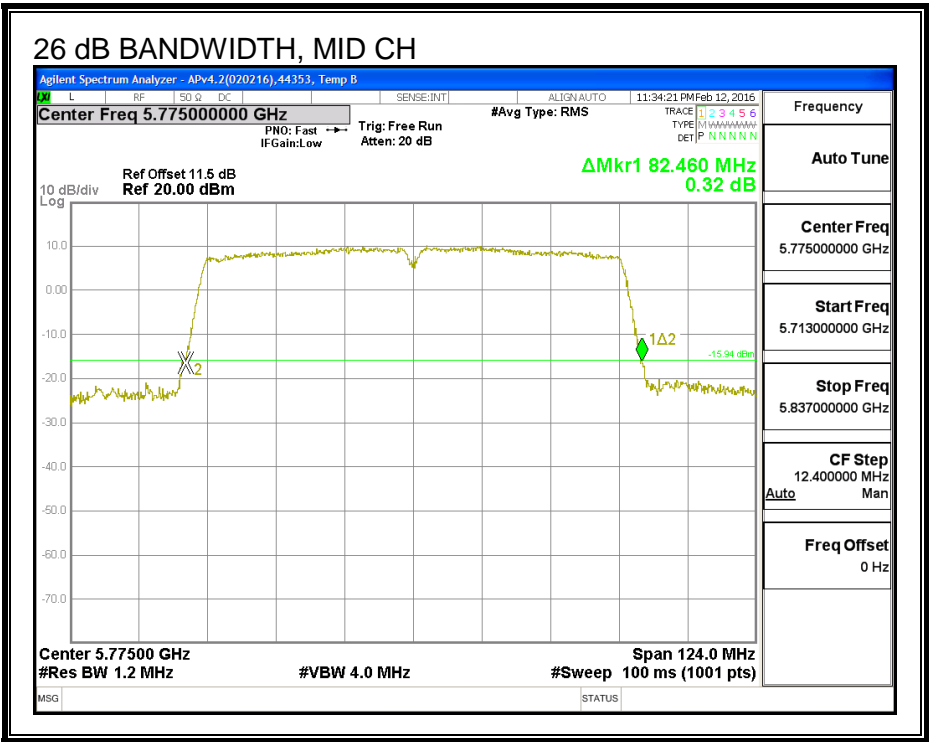
#### LIMITS

None, for reporting purposes only.

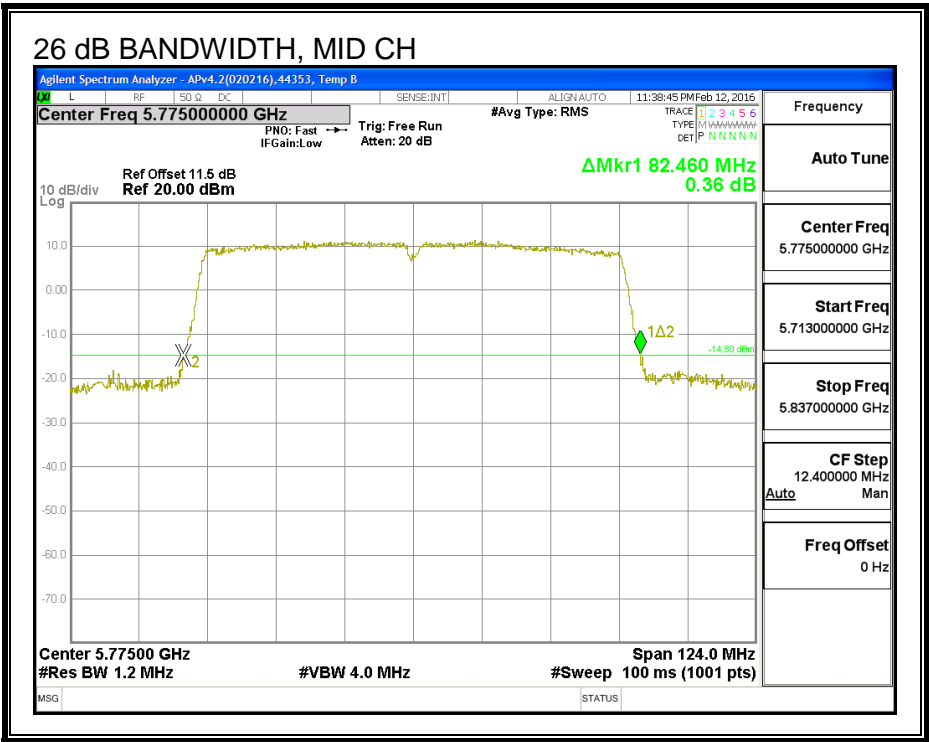
#### RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Mid	5775	82.46	82.46

26 dB BANDWIDTH, CHAIN 0



26 dB BANDWIDTH, CHAIN 1



### 8.69.3. 99% BANDWIDTH

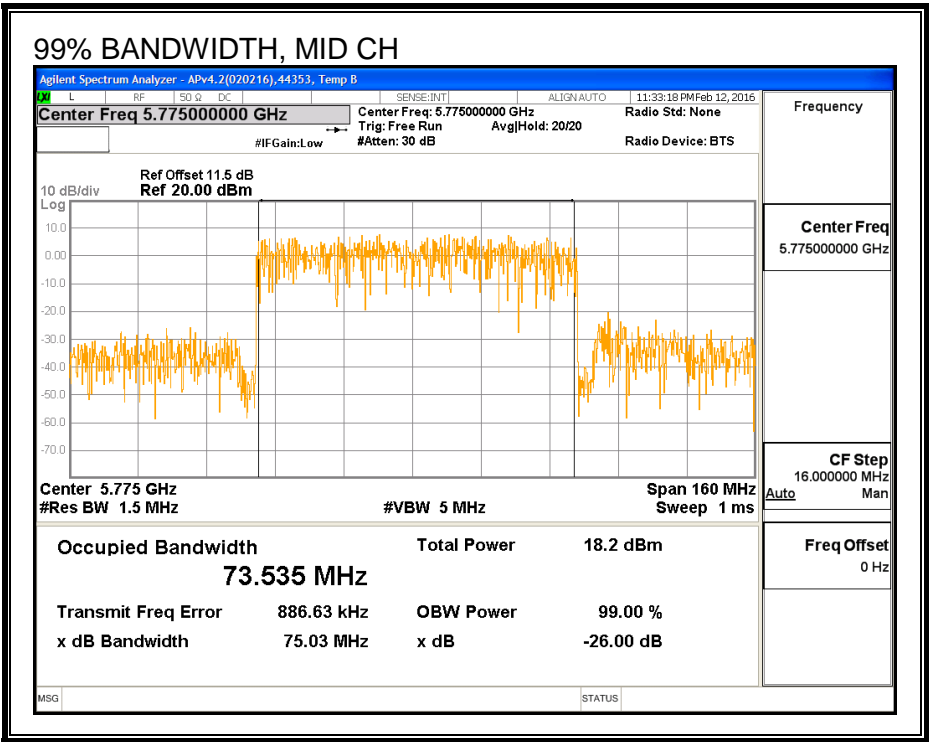
#### LIMITS

None; for reporting purposes only.

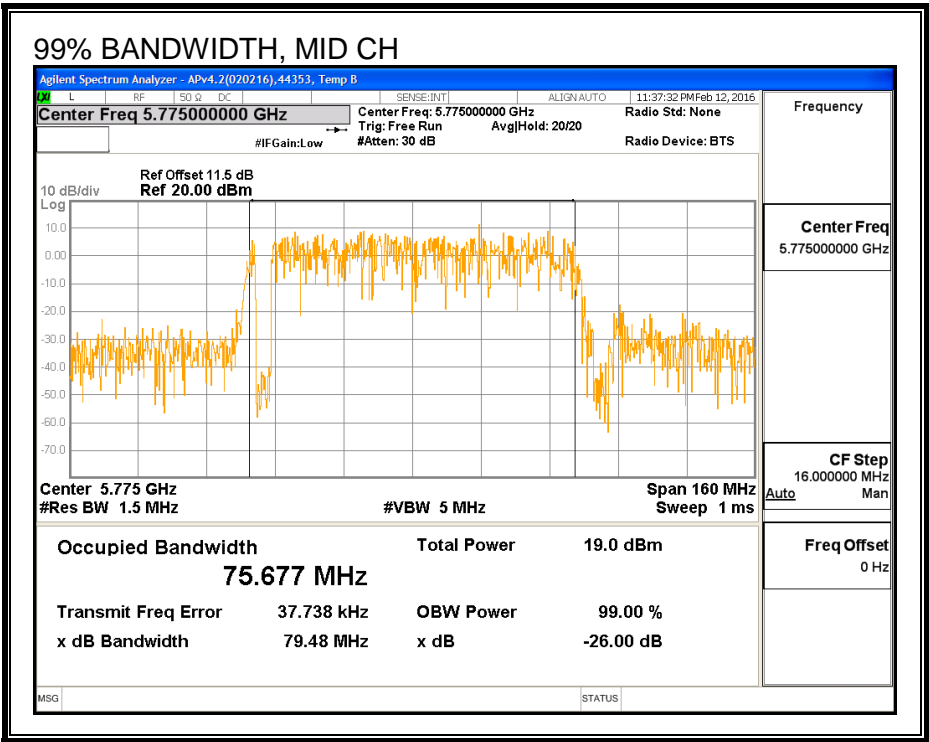
#### RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Mid	5775	73.535	75.677

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



#### 8.69.4. 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)
Mid	5775	11.98	11.92	14.96

## 8.69.5. OUTPUT POWER

### LIMITS

FCC §15.407 (a) (3)

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

### TEST PROCEDURE

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

### DIRECTIONAL ANTENNA GAIN

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

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
4.78	5.26	5.03

## **RESULTS**

### **Antenna Gain and Limit**

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	5.03	30.00

### **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	5775	11.98	11.92	14.96	30.00	-15.04

### 8.69.6. PSD

#### LIMITS

FCC §15.407 (a) (3)

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

#### DIRECTIONAL ANTENNA GAIN

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

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
4.78	5.26	5.03

## RESULTS

### Antenna Gain and Limit

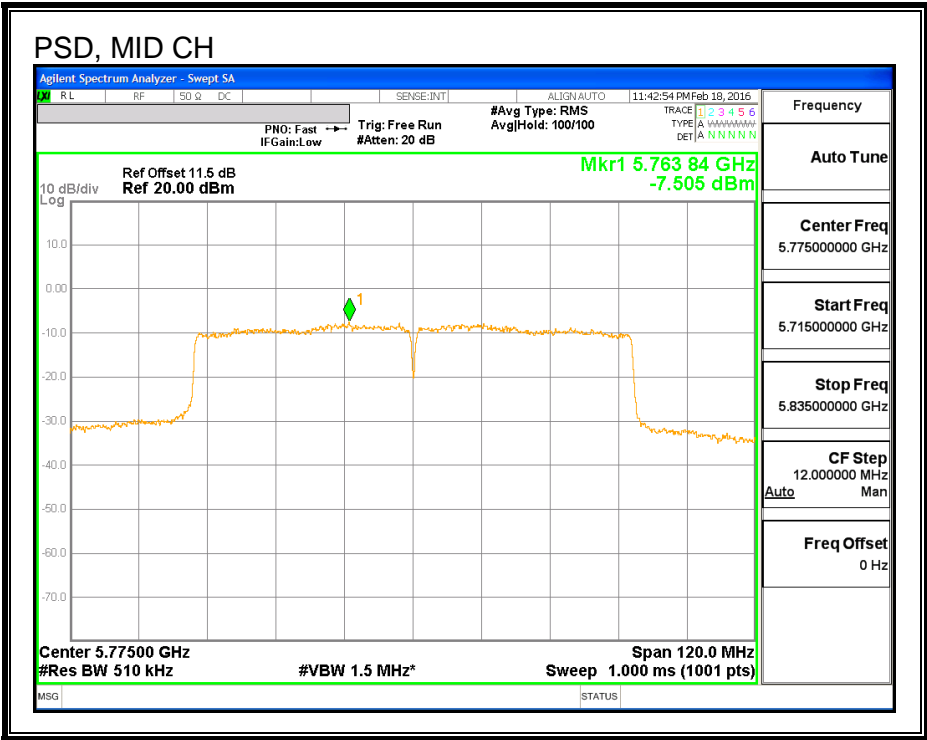
Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5775	5.03	30.00

Duty Cycle CF (dB)	0.22	Included in Calculations of Corr'd PSD
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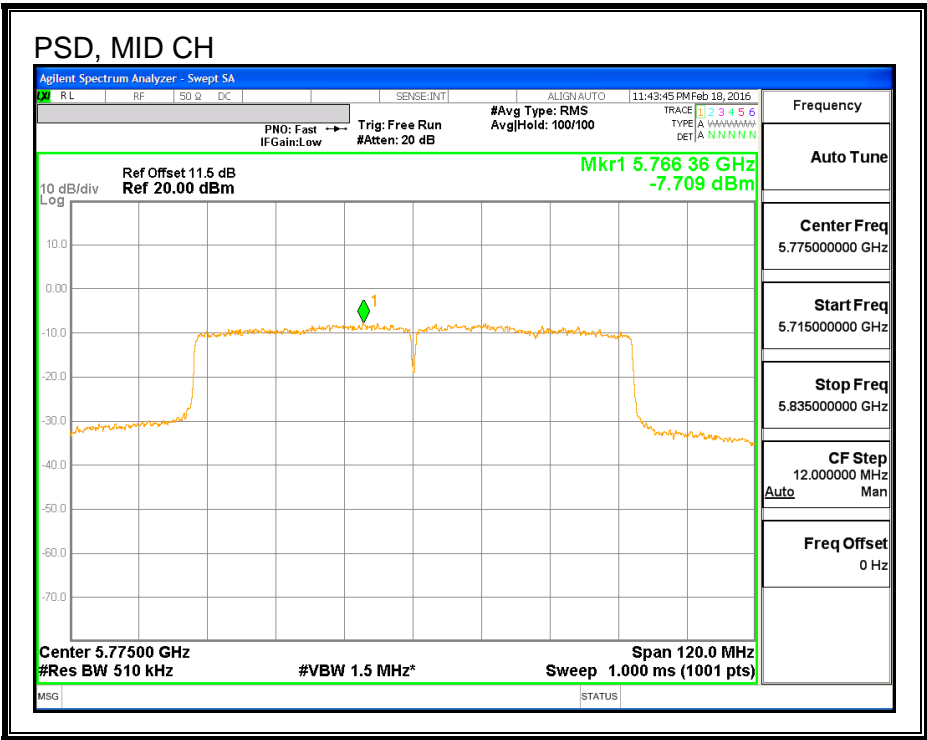
### PSD Results

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	5775	-7.51	-7.71	-4.38	30.00	-34.38

PSD, CHAIN 0



PSD, CHAIN 1



## **8.70. 802.11ac VHT80 2Tx BEAM FORMING MODE IN THE 5.8 GHz BAND**

### **8.70.1. 6 dB BANDWIDTH**

#### **LIMITS**

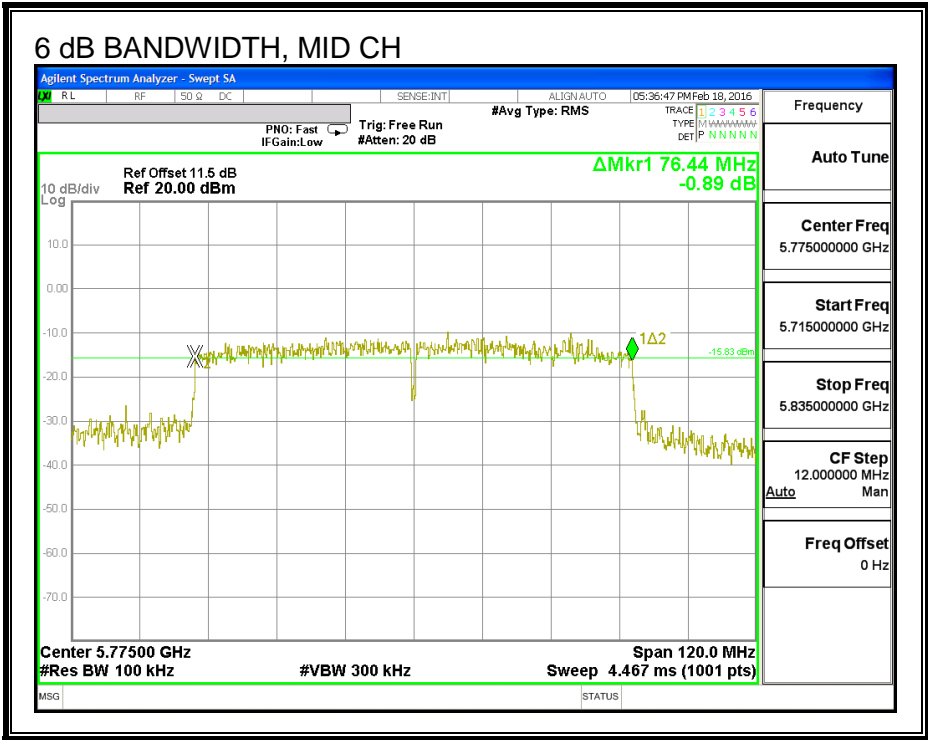
FCC §15.407 (e)

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

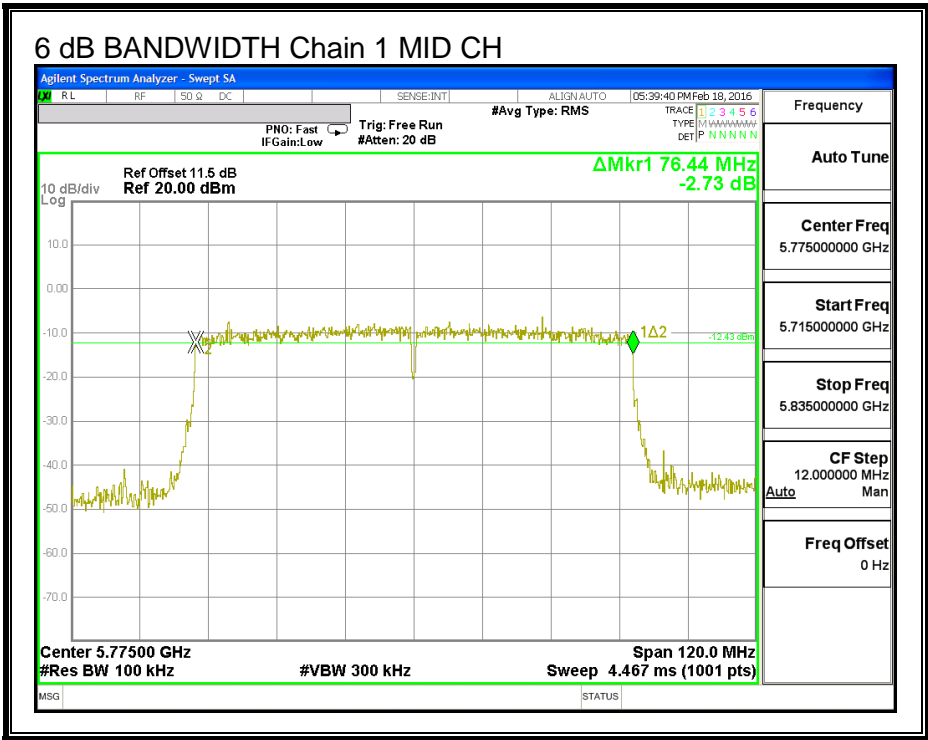
#### **RESULTS**

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Mid	5775	76.44	76.44	0.5

6 dB BANDWIDTH, CHAIN 0



6 DB BANDWIDTH, CHAIN 1



## 8.70.2. 26 dB BANDWIDTH

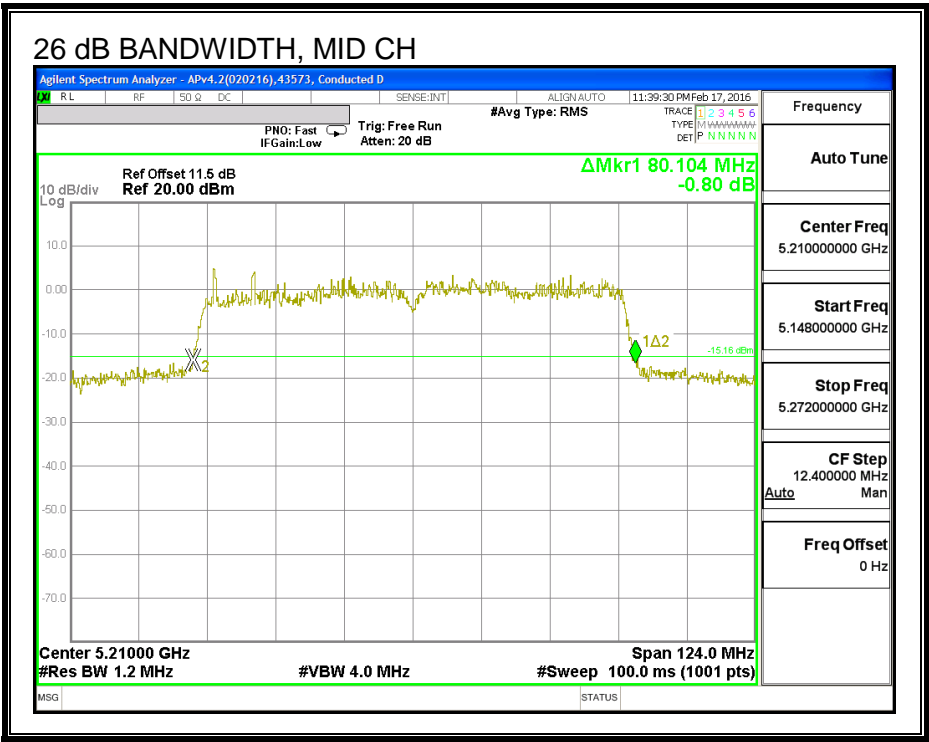
### LIMITS

None, for reporting purposes only.

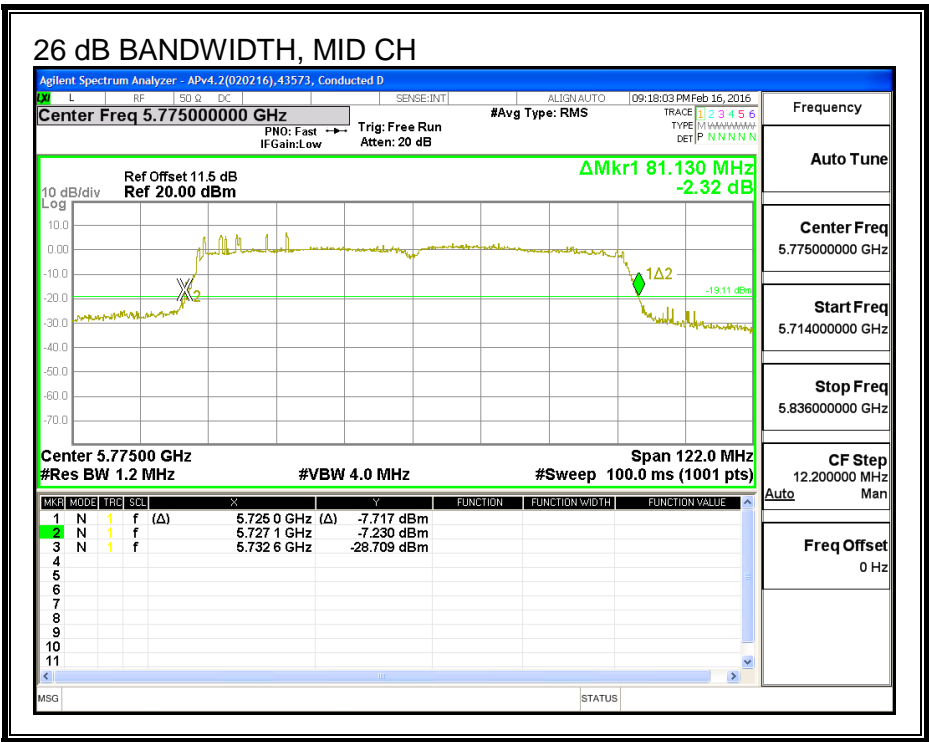
### RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Mid	5775	80.10	81.13

26 dB BANDWIDTH, CHAIN 0



26 dB BANDWIDTH, CHAIN 1



### 8.70.3. 99% BANDWIDTH

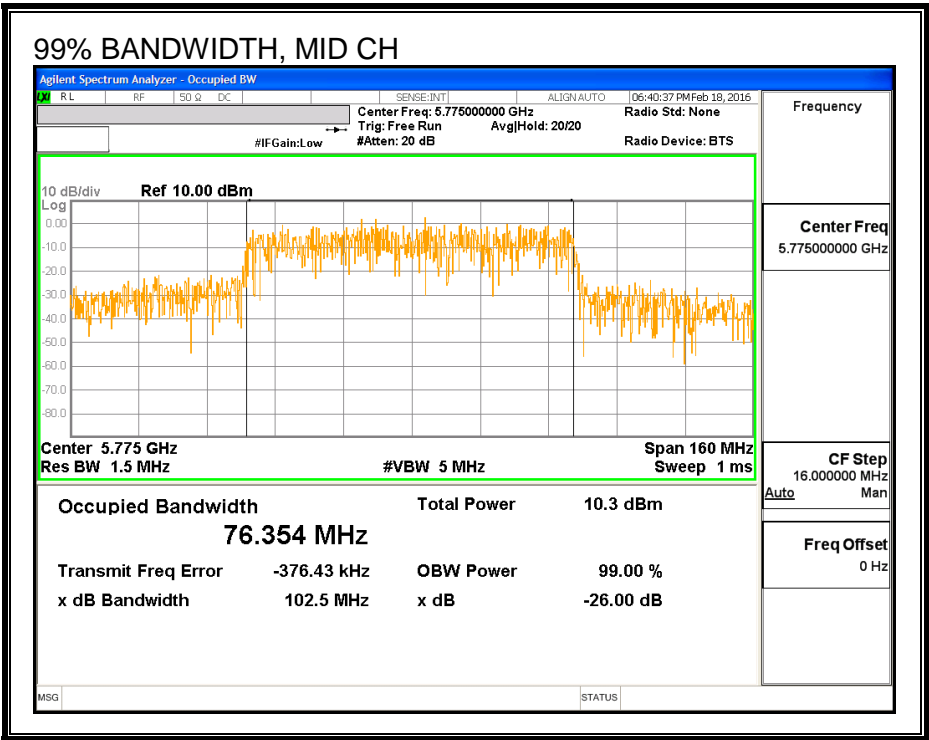
#### LIMITS

None; for reporting purposes only.

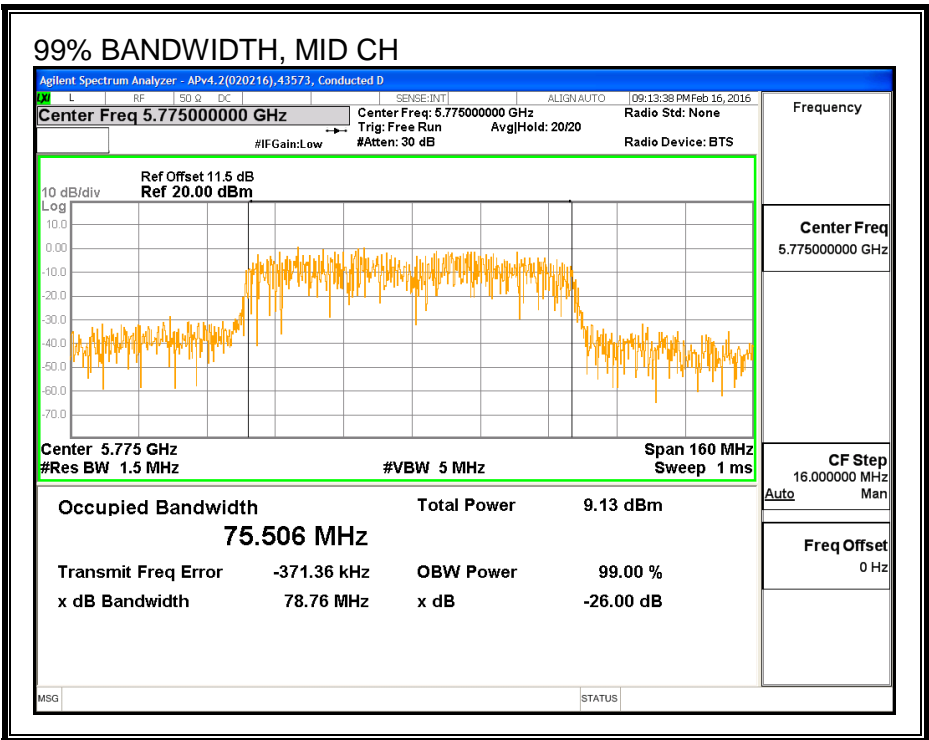
#### RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Mid	5775	76.354	75.506

99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



#### 8.70.4. 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)
Mid	5775	8.49	8.41	11.46

## 8.70.5. OUTPUT POWER

### LIMITS

FCC §15.407 (a) (3)

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

### TEST PROCEDURE

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

### DIRECTIONAL ANTENNA GAIN

The TX chains are 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)
4.78	5.26	8.03

## **RESULTS**

### **Antenna Gain and Limit**

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	8.03	27.97

### **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	5775	8.49	8.41	11.46	27.97	-16.51

### 8.70.6. PSD

#### LIMITS

FCC §15.407 (a) (3)

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

#### DIRECTIONAL ANTENNA GAIN

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

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
4.78	5.26	8.03

## RESULTS

### Antenna Gain and Limit

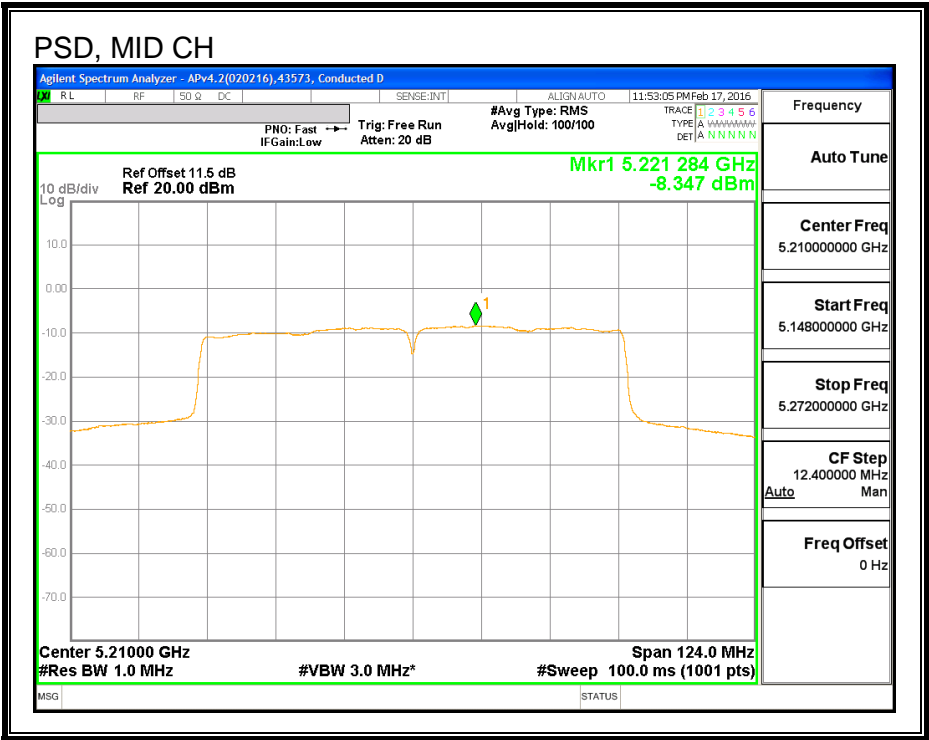
Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5775	8.03	27.97

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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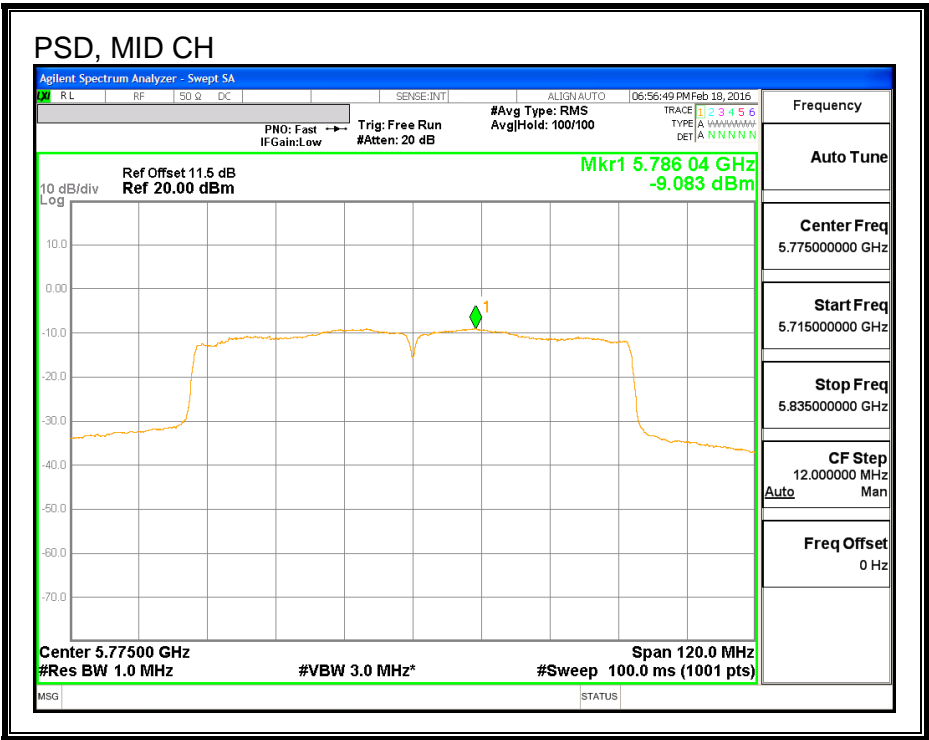
### PSD Results

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	5775	-8.35	-9.08	-5.59	27.97	-33.56

PSD, CHAIN 0



PSD, CHAIN 1



## 9. RADIATED TEST RESULTS

### 9.1. LIMITS AND PROCEDURE

#### LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

#### TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

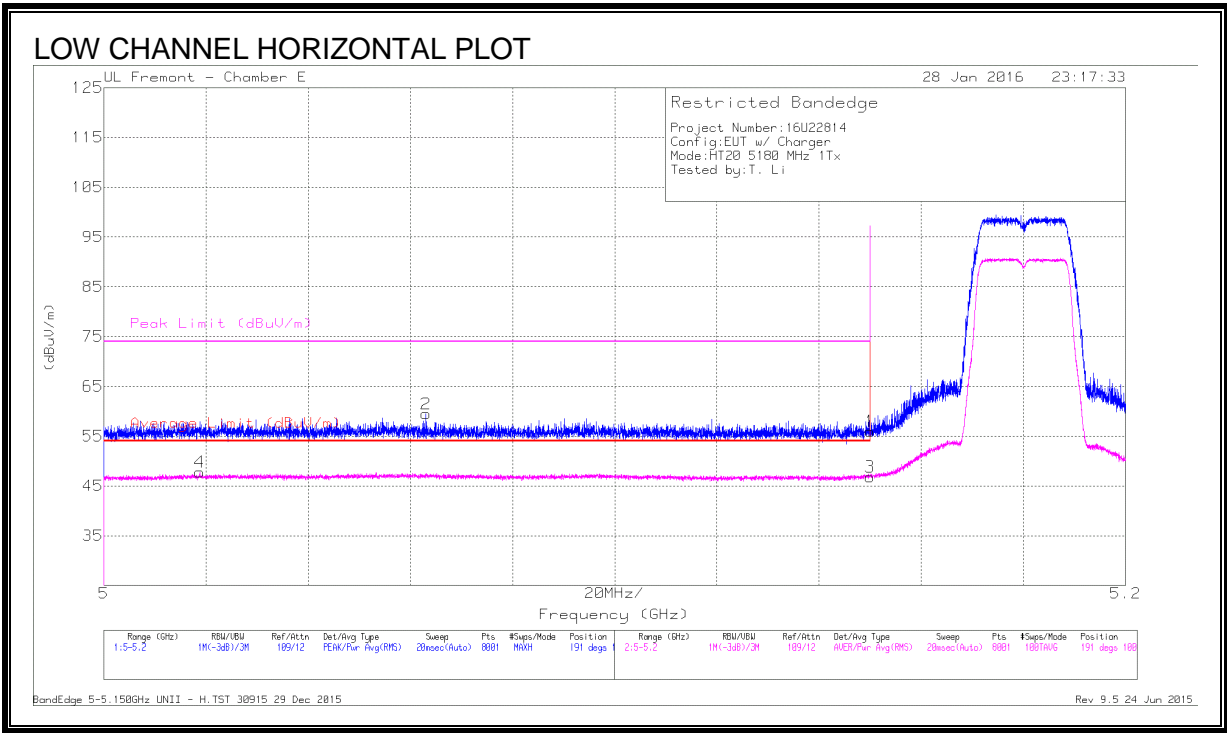
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

9.2. 802.11n HT20 1Tx MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE, CHAIN 0 (LOW CHANNEL)



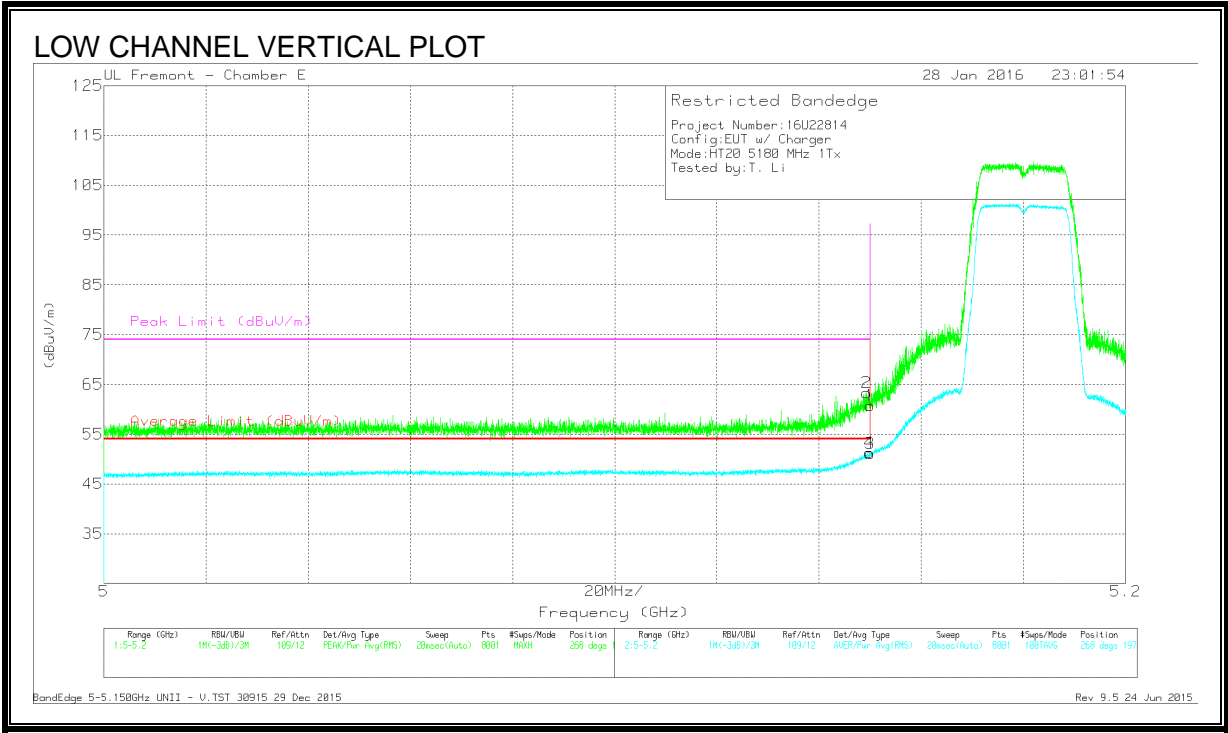
DATA

Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.019	31.98	RMS	34.2	-18.4	47.78	54	-6.22	-	-	191	100	H
2	* 5.063	43.86	Pk	34.2	-18.6	59.46	-	-	74	-14.54	191	100	H
1	* 5.15	40.67	Pk	34.3	-19	55.97	-	-	74	-18.03	191	100	H
3	* 5.15	31.52	RMS	34.3	-19	46.82	54	-7.18	-	-	191	100	H

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

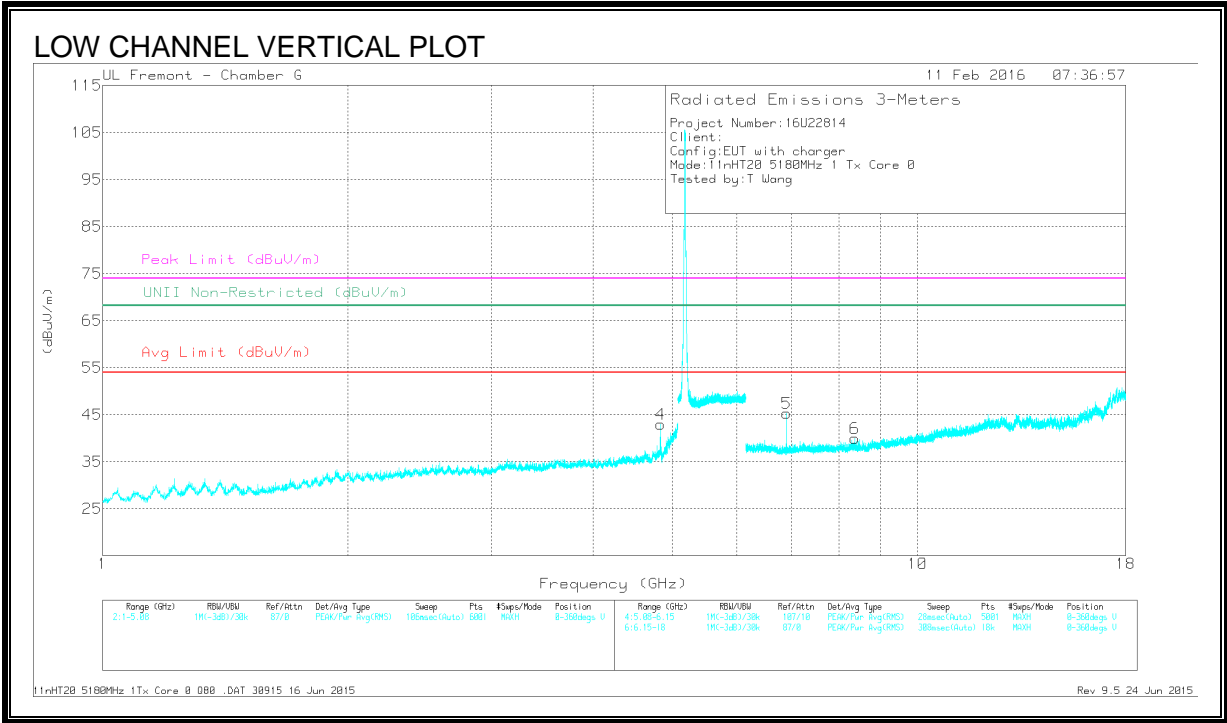
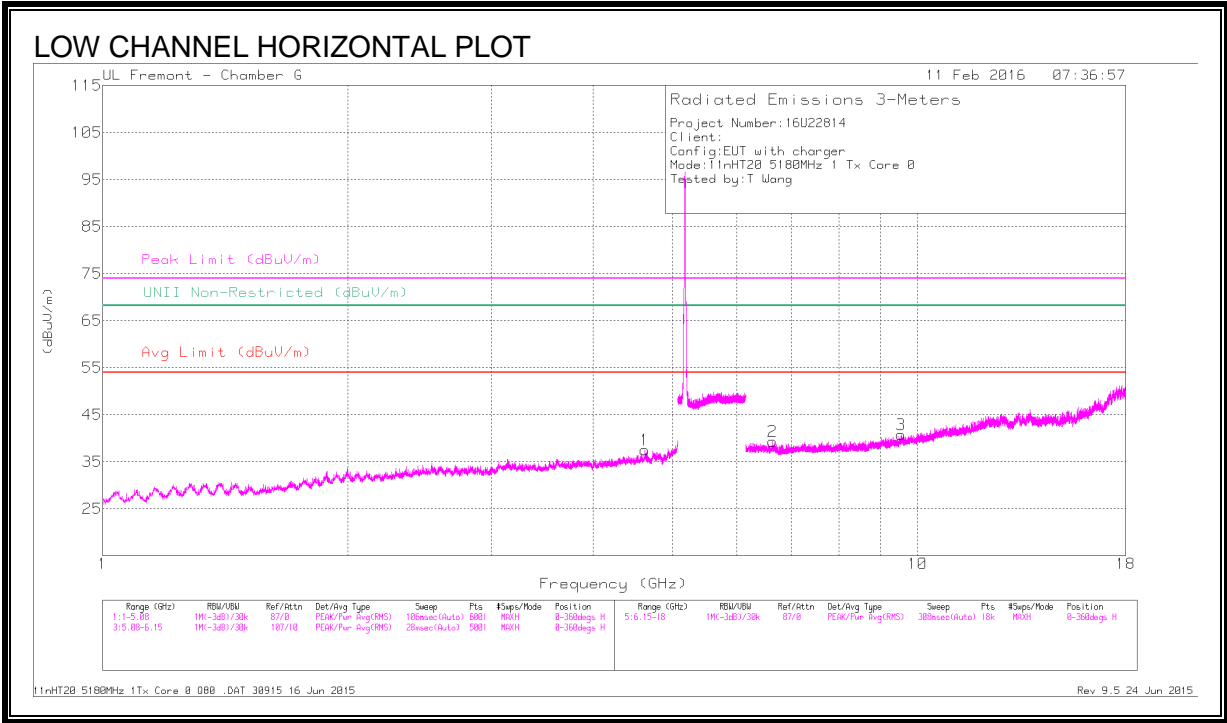
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.149	47.93	Pk	34.3	-18.9	63.33	-	-	74	-10.67	268	197	V
1	* 5.15	45.47	Pk	34.3	-19	60.77	-	-	74	-13.23	268	197	V
3	* 5.15	35.84	RMS	34.3	-19	51.14	54	-2.86	-	-	268	197	V
4	* 5.15	35.98	RMS	34.3	-19	51.28	54	-2.72	-	-	268	197	V

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS



# DATA

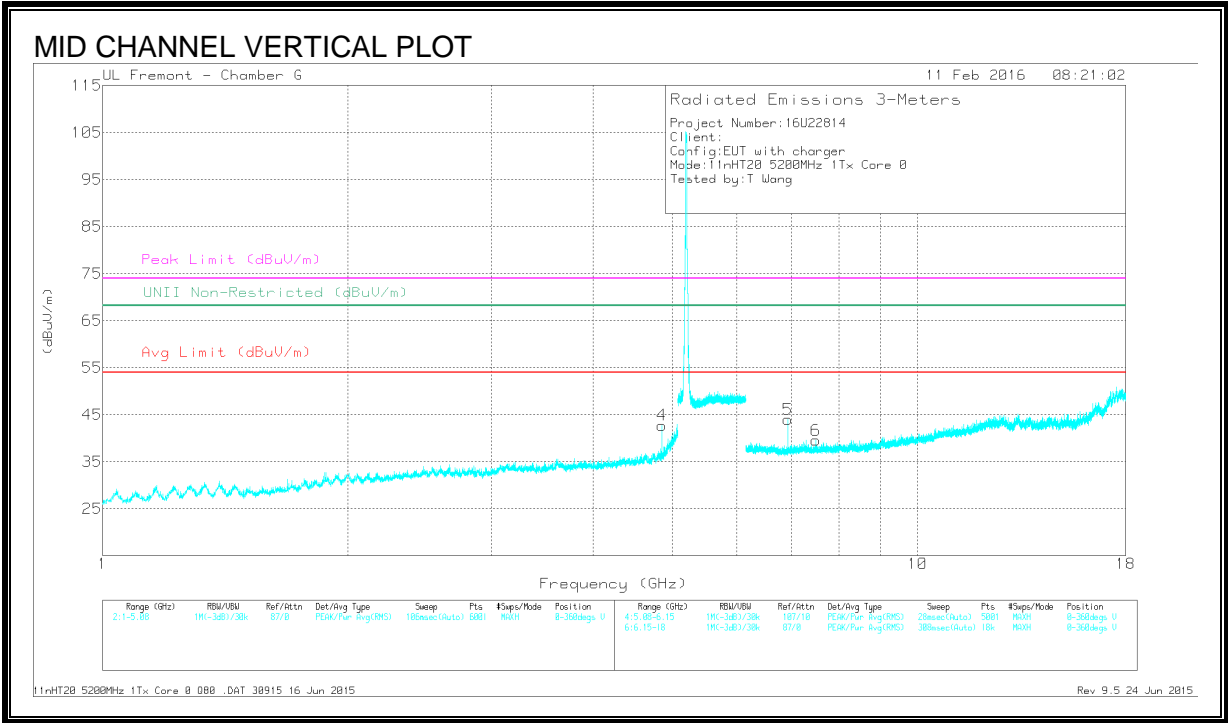
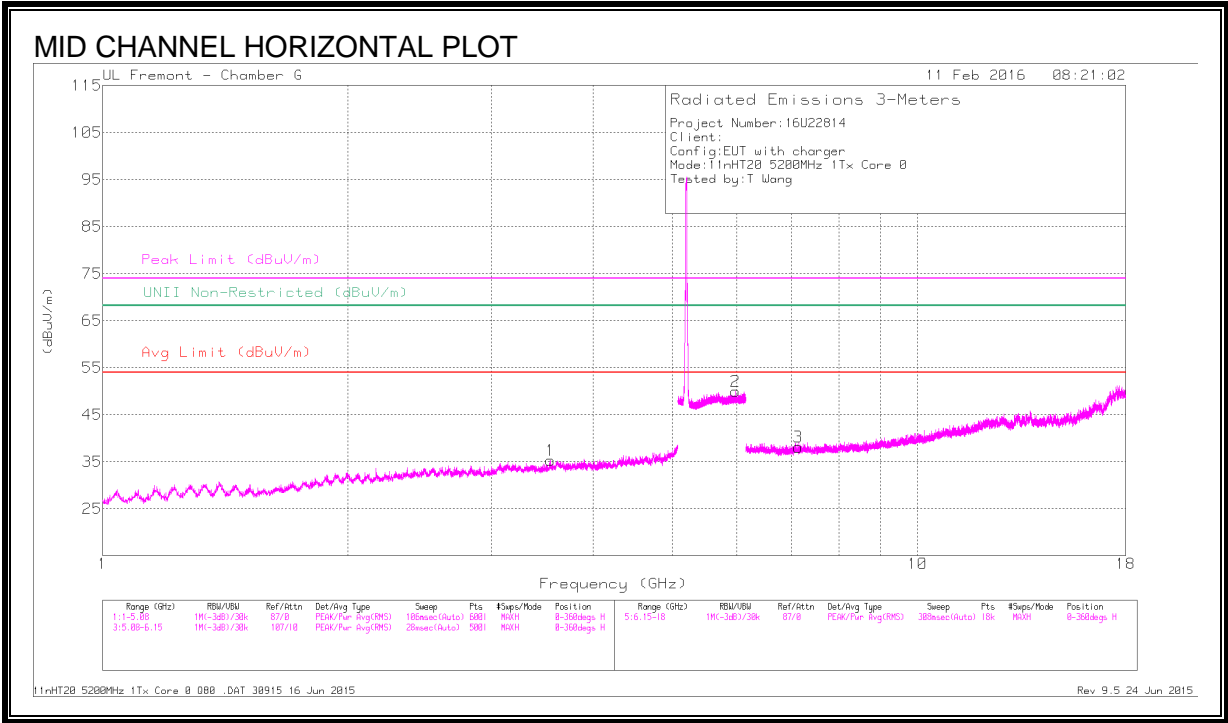
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/F Itr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.629	42.94	PK-U	33.8	-32.3	44.44	-	-	74	-29.56	-	-	202	166	H
	* 4.631	31.26	ADR	33.8	-32.3	32.76	54	-21.24	-	-	-	-	202	166	H
4	* 4.833	43.25	PK-U	34	-32	45.25	-	-	74	-28.75	-	-	233	207	V
	* 4.834	31.52	ADR	34	-32	33.52	54	-20.48	-	-	-	-	233	207	V
6	* 8.369	39.71	PK-U	35.7	-29.6	45.81	-	-	74	-28.19	-	-	255	238	V
	* 8.368	28.48	ADR	35.7	-29.5	34.68	54	-19.32	-	-	-	-	255	238	V
2	6.638	41	PK-U	35.7	-31	45.7	-	-	-	-	68.2	-22.5	237	146	H
5	6.906	41.19	PK-U	35.5	-31.1	45.59	-	-	-	-	68.2	-22.61	232	214	V
3	9.541	38.49	PK-U	36.7	-28	47.19	-	-	-	-	68.2	-21.01	237	169	H

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS



## DATA

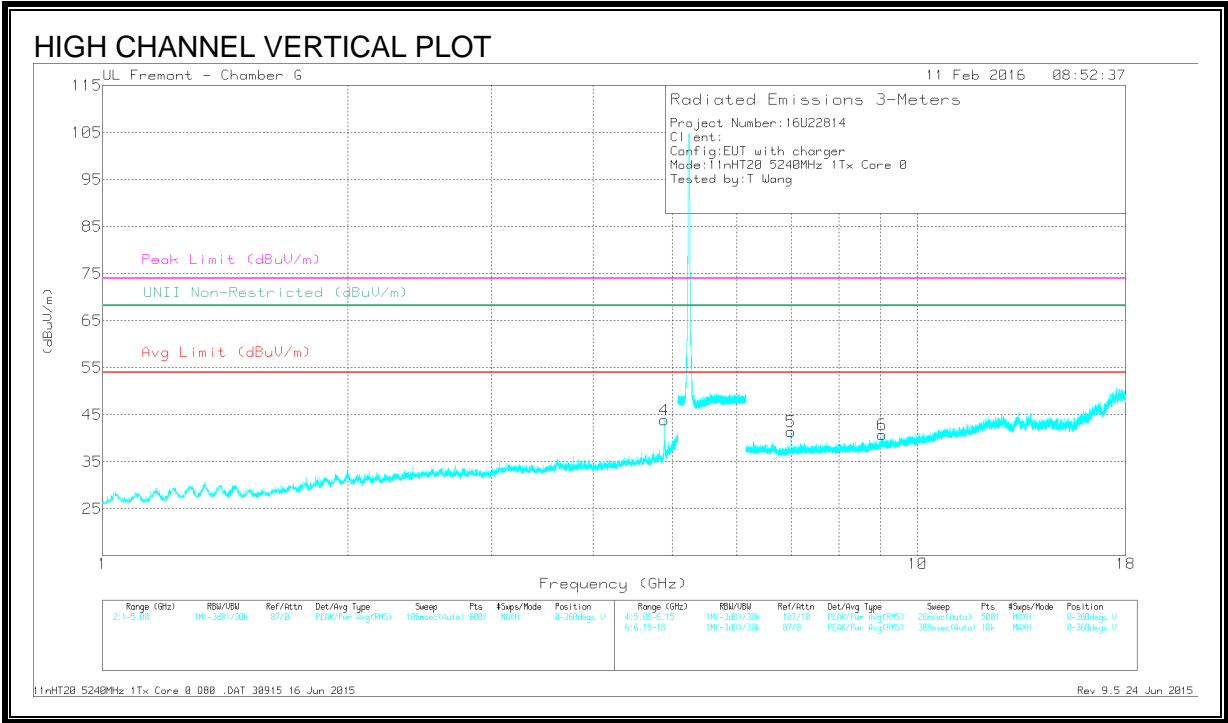
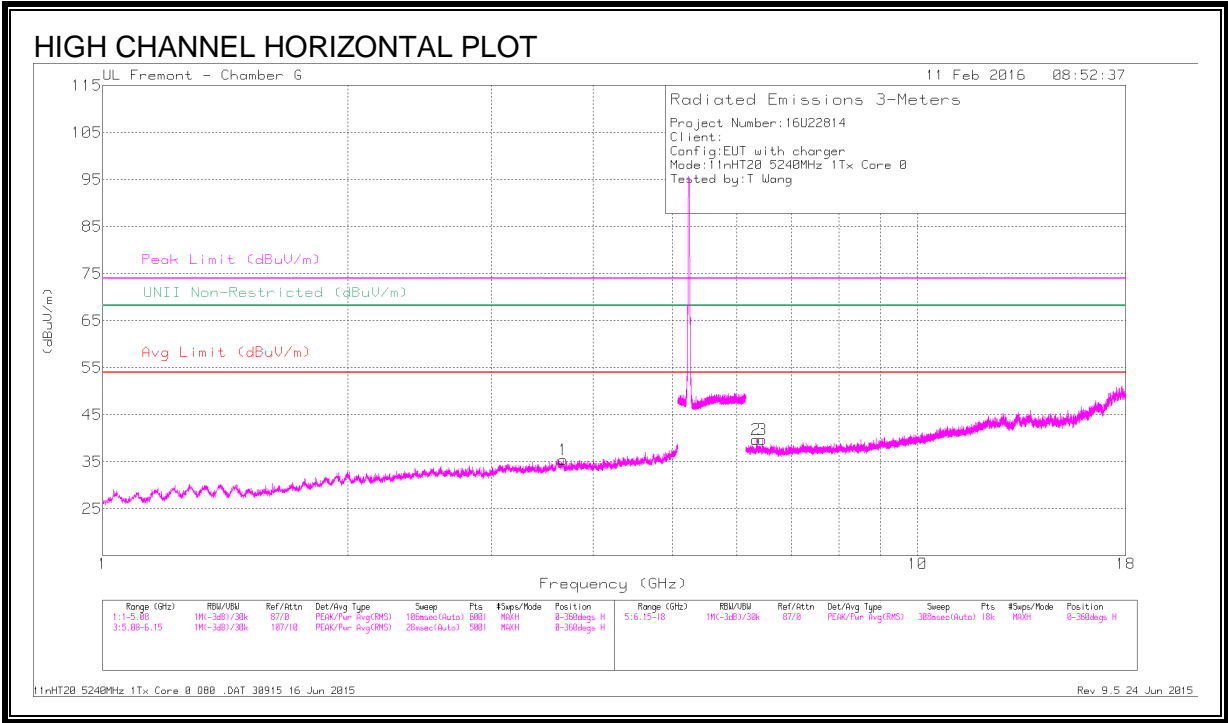
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.54	41.46	PK-U	33	-32.9	0	41.56	-	-	74	-32.44	-	-	233	207	H
	* 3.542	30.19	ADR	33	-32.8	0	30.51	54	-23.49	-	-	-	-	233	207	H
4	* 4.853	44.01	PK-U	34	-31.8	0	46.21	-	-	74	-27.79	-	-	243	217	V
	* 4.853	32.16	ADR	34	-31.8	0	34.48	54	-19.52	-	-	-	-	243	217	V
6	* 7.498	40.33	PK-U	35.5	-30.6	0	45.23	-	-	74	-28.77	-	-	239	225	V
	* 7.497	29.3	ADR	35.5	-30.6	0	34.32	54	-19.68	-	-	-	-	239	225	V
2	5.977	44.04	PK-U	35.2	-23	0	56.24	-	-	-	-	68.2	-11.96	224	201	H
5	6.931	41.66	PK-U	35.5	-31.3	0	45.86	-	-	-	-	68.2	-22.34	233	230	V
3	7.136	41	PK-U	35.6	-31.1	0	45.5	-	-	-	-	68.2	-22.7	238	196	H

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS



## DATA

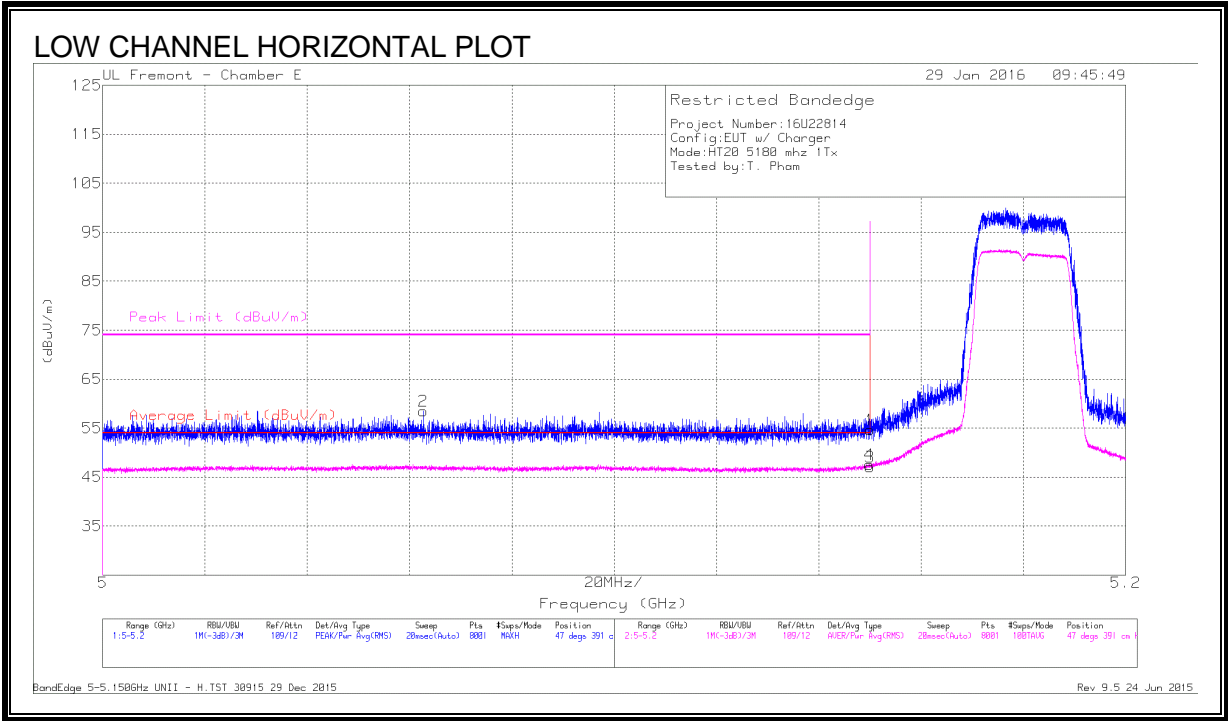
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.676	41.53	PK-U	33	-32.9	0	41.63	-	-	74	-32.37	-	-	44	241	H
	* 3.676	29.73	ADR	33	-32.9	0	29.83	54	-24.17	-	-	-	-	44	241	H
4	* 4.891	44.55	PK-U	34.1	-31.5	0	47.15	-	-	74	-26.85	-	-	244	289	V
	* 4.891	32.49	ADR	34.1	-31.5	0	35.09	54	-18.91	-	-	-	-	244	289	V
6	* 9.052	38.97	PK-U	36.2	-28.2	0	46.97	-	-	74	-27.03	-	-	251	296	V
	* 9.052	27.77	ADR	36.2	-28.2	0	35.77	54	-18.23	-	-	-	-	251	296	V
2	6.337	41.68	PK-U	35.7	-32.2	0	45.18	-	-	-	-	68.2	-23.02	46	237	H
3	6.448	41.69	PK-U	35.8	-31.6	0	45.89	-	-	-	-	68.2	-22.31	47	233	H
5	6.987	40.89	PK-U	35.5	-31.3	0	45.09	-	-	-	-	68.2	-23.11	246	291	V

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

RESTRICTED BANDEDGE, CHAIN 1 (LOW CHANNEL)



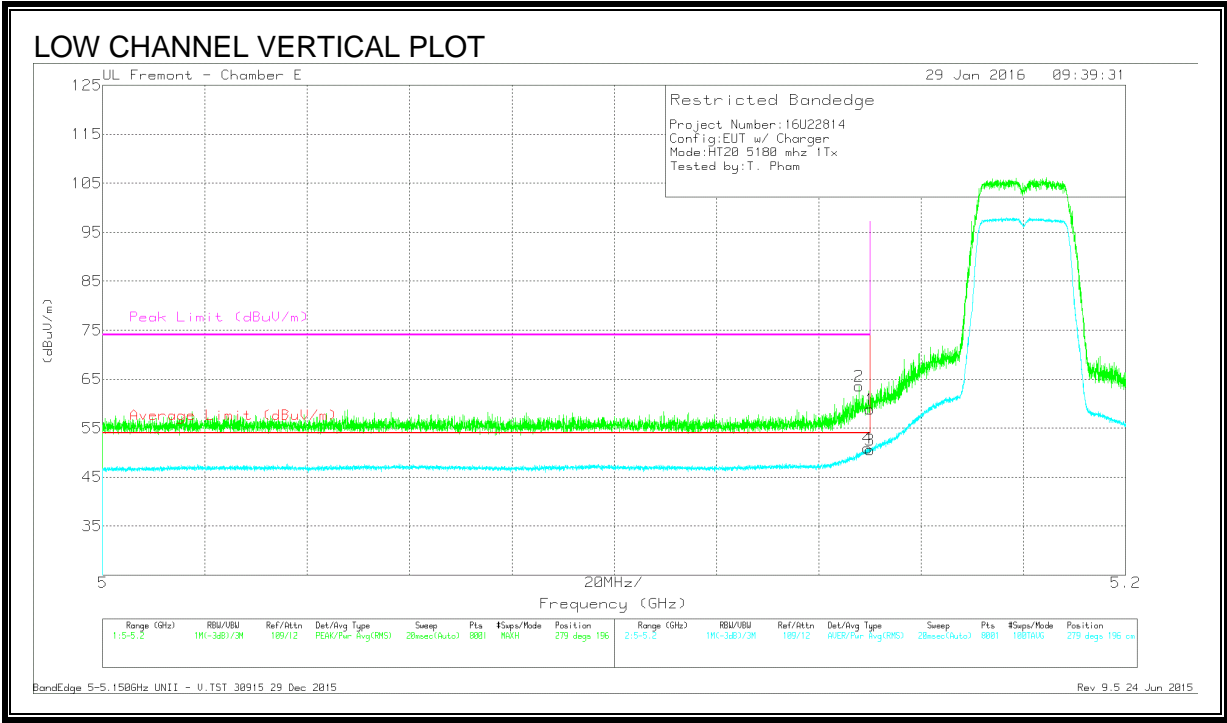
DATA

Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.29	Pk	34.3	-19	54.59	-	-	74	-19.41	47	391	H
2	* 5.063	42.94	Pk	34.2	-18.6	58.54	-	-	74	-15.46	47	391	H
3	* 5.15	31.74	RMS	34.3	-19	47.04	54	-6.96	-	-	47	391	H
4	* 5.15	32.31	RMS	34.3	-19	47.61	54	-6.39	-	-	47	391	H

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

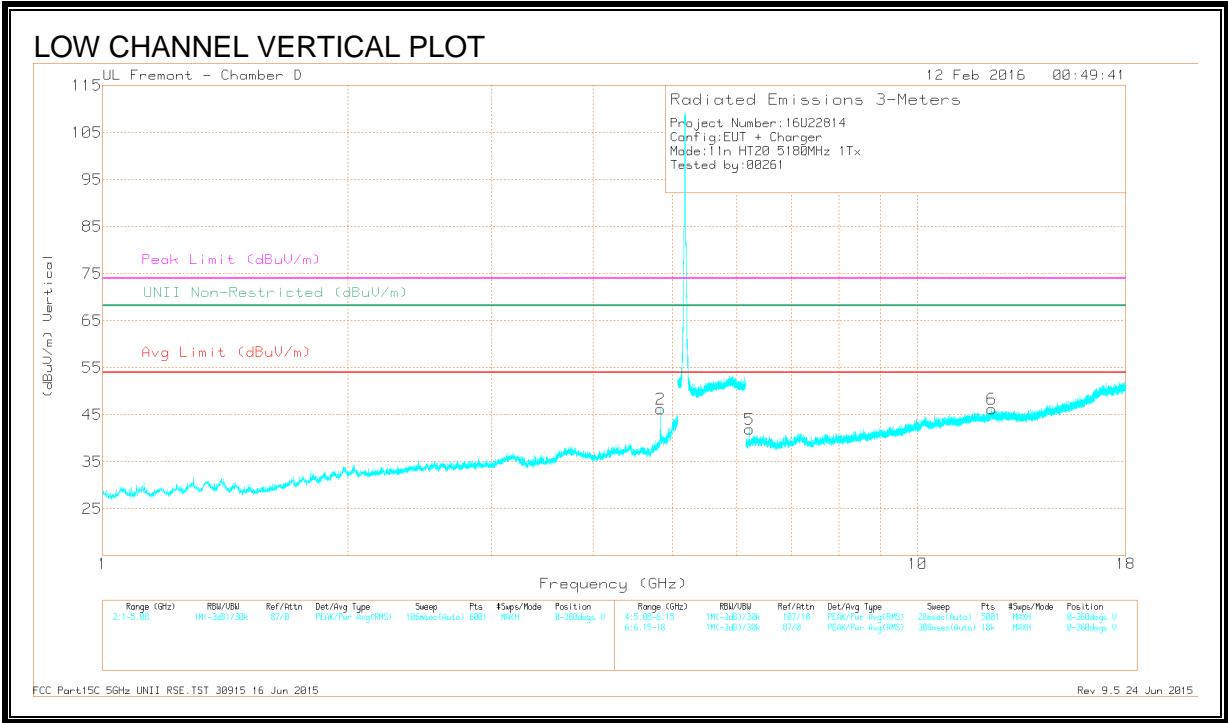
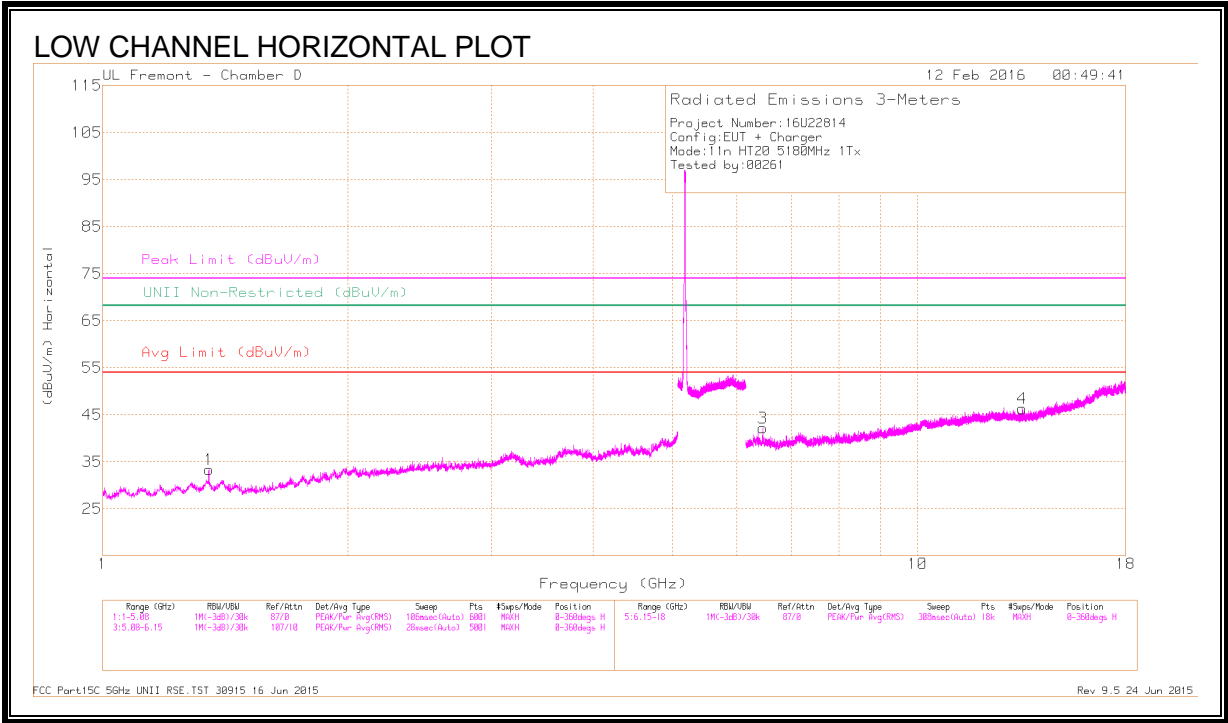
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	43.59	Pk	34.3	-19	58.89	-	-	74	-15.11	279	196	V
2	* 5.148	48.15	Pk	34.3	-18.9	63.55	-	-	74	-10.45	279	196	V
3	* 5.15	35.28	RMS	34.3	-19	50.58	54	-3.42	-	-	279	196	V
4	* 5.15	35.57	RMS	34.3	-19	50.87	54	-3.13	-	-	279	196	V

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS



## DATA

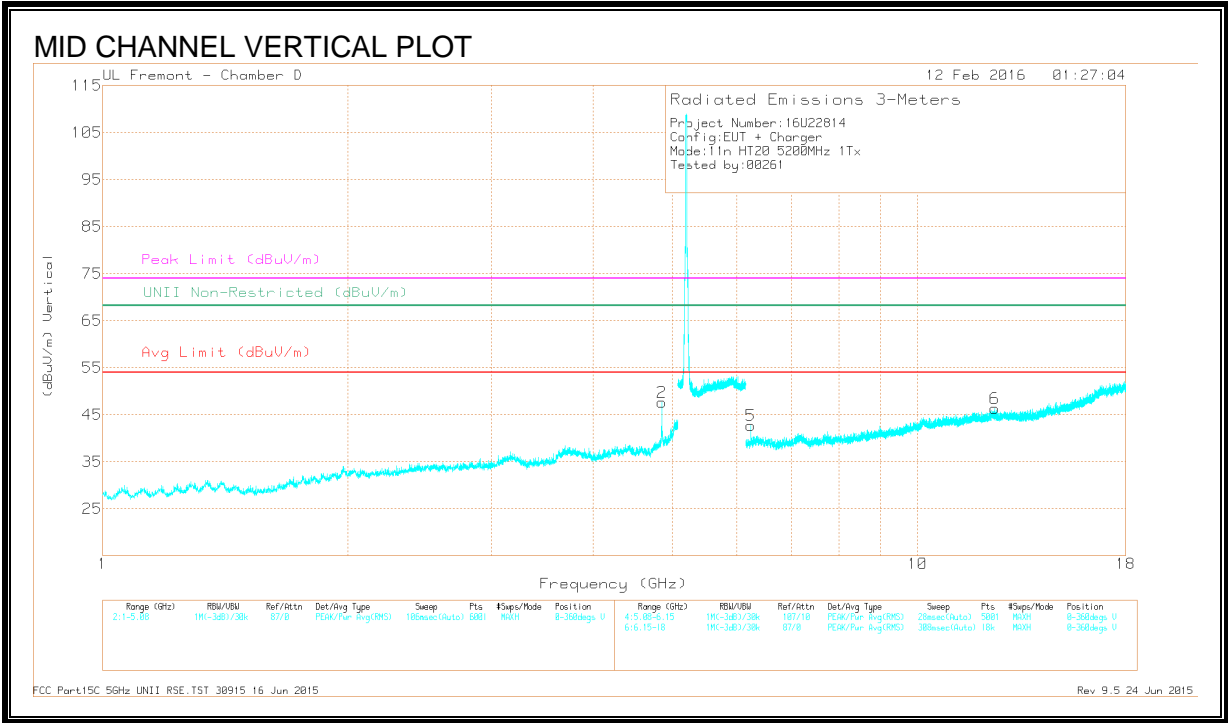
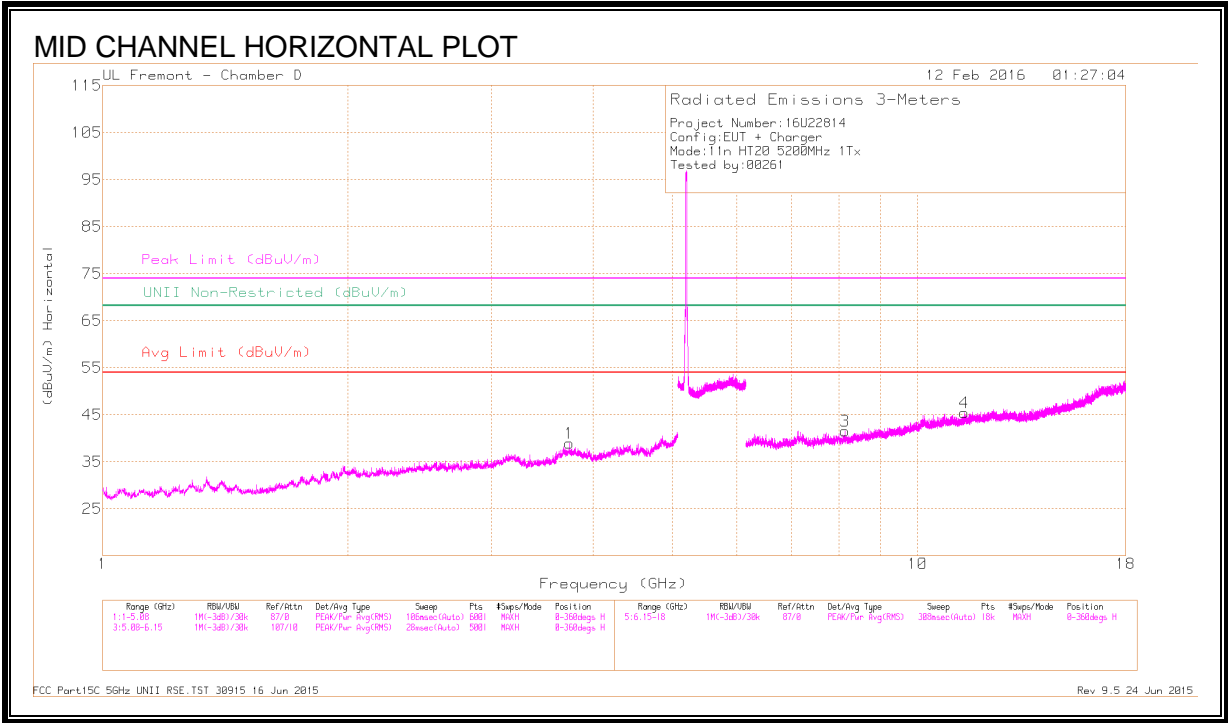
Marker	Frequency (GHz)	Meter Reading (dBuV)	Dot	AF T712 (dB/m)	Amp/Cb/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.35	46.43	PK-U	28.9	-31.3	0	44.03	-	-	74	-29.97	-	-	201	183	H
	* 1.35	29.67	ADR	28.9	-31.3	0	27.27	54	-26.73	-	-	-	-	201	183	H
2	* 4.835	44.03	PK-U	34.1	-26.3	0	51.83	-	-	74	-22.17	-	-	216	274	V
	* 4.835	36.93	ADR	34.1	-26.4	0	44.63	54	-9.37	-	-	-	-	216	274	V
6	* 12.324	34.49	PK-U	39	-21	0	52.49	-	-	74	-21.51	-	-	282	200	V
	* 12.325	23.63	ADR	39	-21	0	41.63	54	-12.37	-	-	-	-	282	200	V
5	6.216	38.94	PK-U	35.6	-26.3	0	48.24	-	-	-	-	68.2	-19.96	282	188	V
3	6.462	36.87	PK-U	35.6	-25.4	0	47.07	-	-	-	-	68.2	-21.13	243	130	H
4	13.434	35.5	PK-U	38.9	-22.4	0	52	-	-	-	-	68.2	-16.2	274	148	H

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS



# DATA

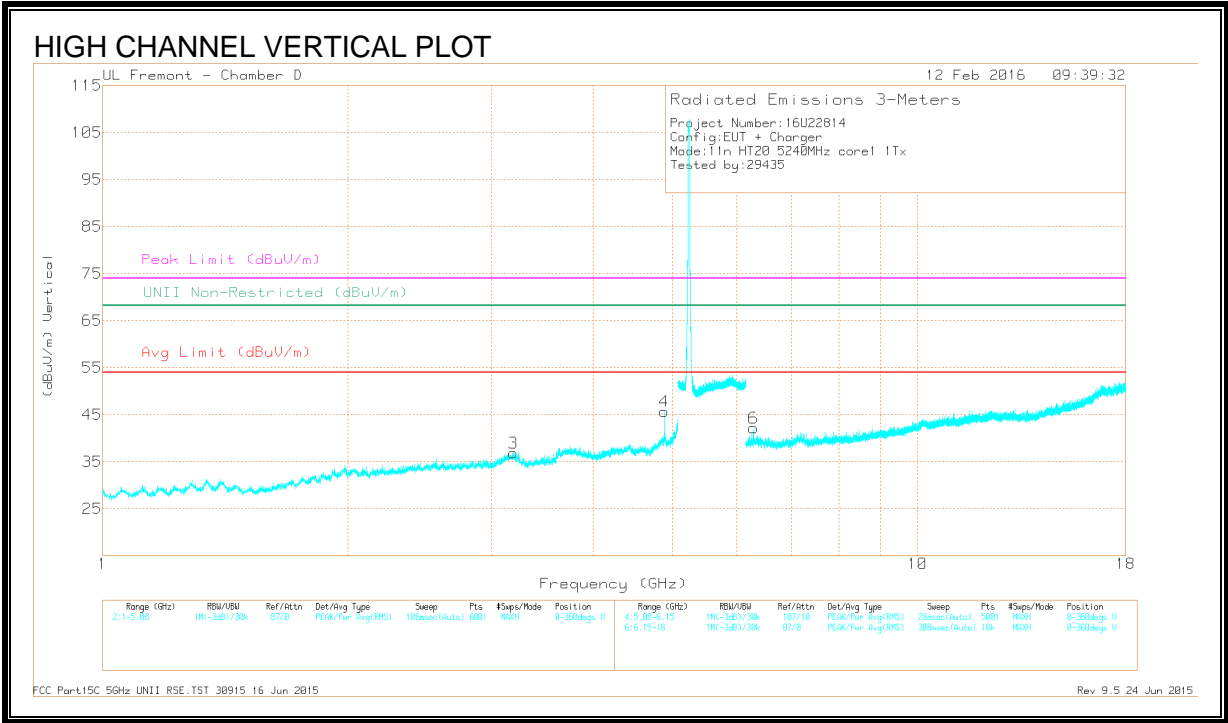
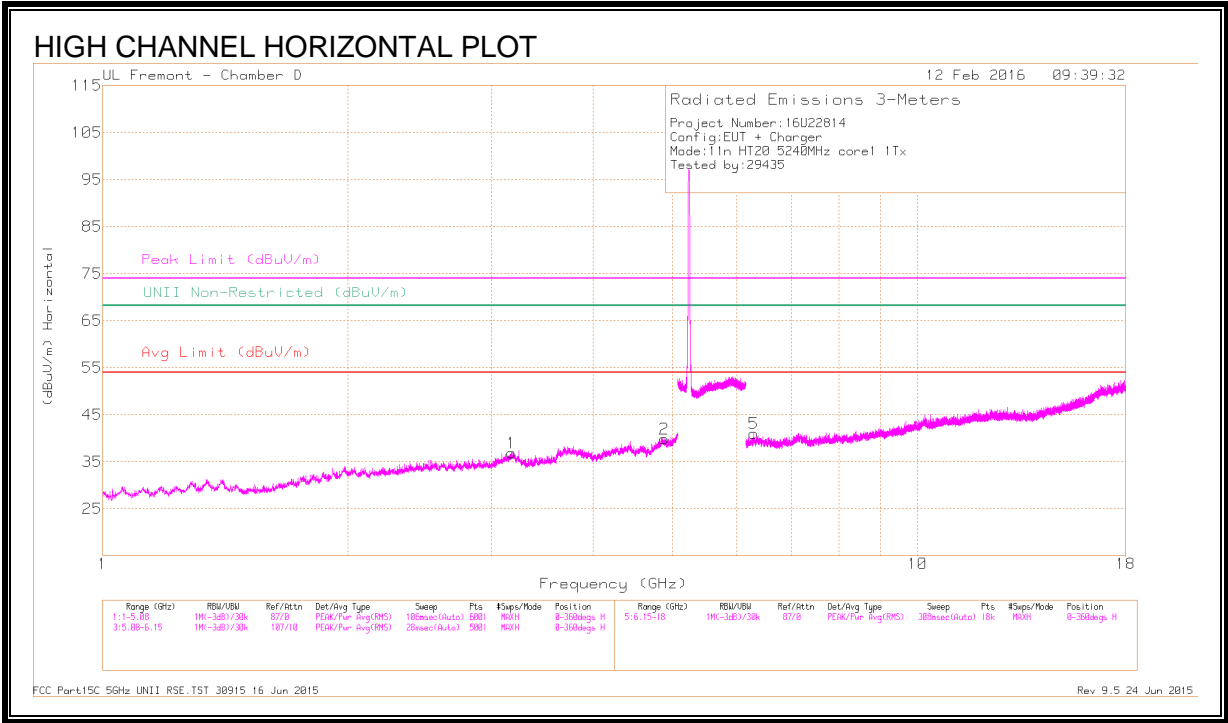
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.74	38.83	PK-U	33.5	-28.9	43.43	-	-	74	-30.57	-	-	339	176	H
	* 3.742	27.51	ADR	33.5	-28.8	32.21	54	-21.79	-	-	-	-	339	176	H
2	* 4.853	45.08	PK-U	34.1	-25.4	53.78	-	-	74	-20.22	-	-	210	260	V
	* 4.853	38.5	ADR	34.1	-25.4	47.2	54	-6.80	-	-	-	-	210	260	V
3	* 8.14	35.28	PK-U	35.8	-23.7	47.38	-	-	74	-26.62	-	-	359	200	H
	* 8.14	23.76	ADR	35.8	-23.7	35.86	54	-18.14	-	-	-	-	359	200	H
4	* 11.41	34.17	PK-U	38.3	-21.1	51.37	-	-	74	-22.63	-	-	281	198	H
	* 11.409	22.61	ADR	38.3	-21.1	39.81	54	-14.19	-	-	-	-	281	198	H
6	* 12.435	34.4	PK-U	39.1	-21.2	52.3	-	-	74	-21.7	-	-	8	131	V
	* 12.432	22.91	ADR	39.1	-21.2	40.81	54	-13.19	-	-	-	-	8	131	V
5	6.24	39.42	PK-U	35.6	-26.3	48.72	-	-	-	-	68.2	-19.48	266	209	V

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS



# DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.884	37.08	PK-U	34.1	-25.3	45.88	-	-	74	-28.12	-	-	123	223	H
	* 4.886	25.19	ADR	34.1	-25.3	33.99	54	-20.01	-	-	-	-	123	223	H
4	* 4.891	42.92	PK-U	34.1	-25.4	51.62	-	-	74	-22.38	-	-	213	255	V
	* 4.891	35.75	ADR	34.1	-25.3	44.55	54	-9.45	-	-	-	-	213	255	V
1	3.172	27.12	ADR	33.8	-28.8	32.12	-	-	-	-	-	-	94	153	H
	3.174	39.52	PK-U	33.8	-28.8	44.52	-	-	-	-	68.2	-23.68	94	153	H
3	3.189	39.61	PK-U	33.9	-29	44.51	-	-	-	-	68.2	-23.69	30	184	V
6	6.288	38.6	PK-U	35.6	-25.7	48.5	-	-	-	-	68.2	-19.7	206	202	V
5	6.291	36.87	PK-U	35.6	-25.7	46.77	-	-	-	-	68.2	-21.43	356	136	H

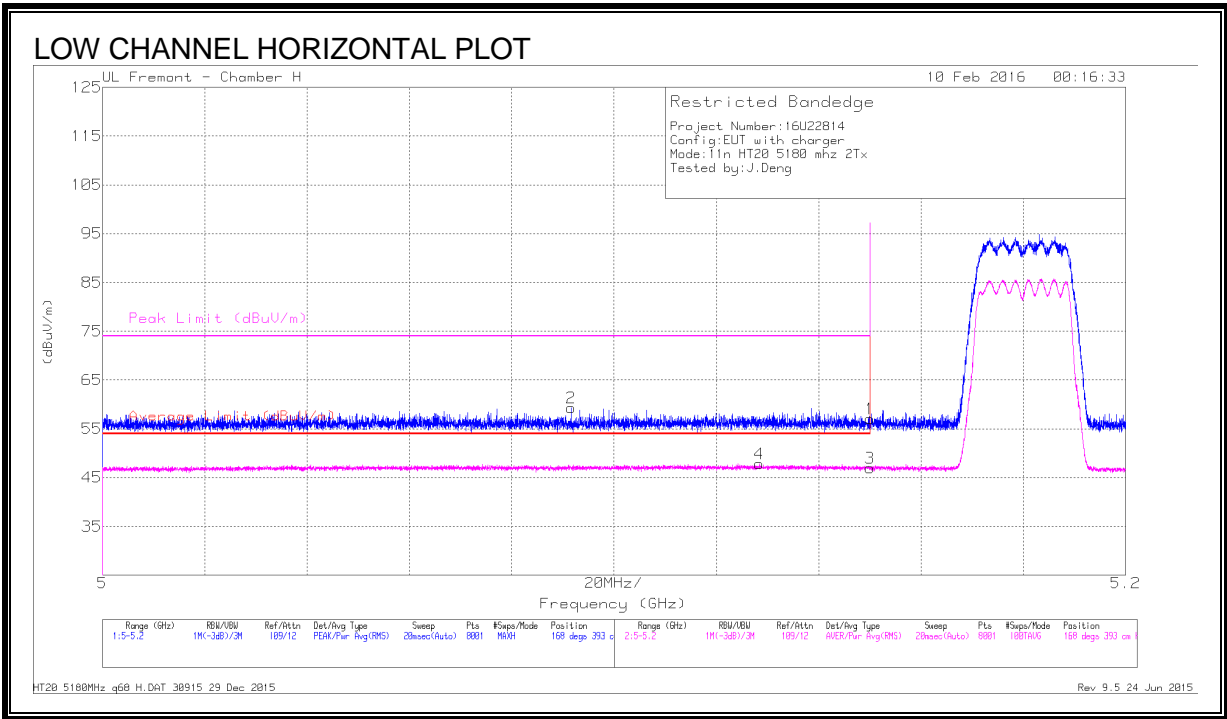
\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.3. 802.11n HT20 2Tx CDD MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



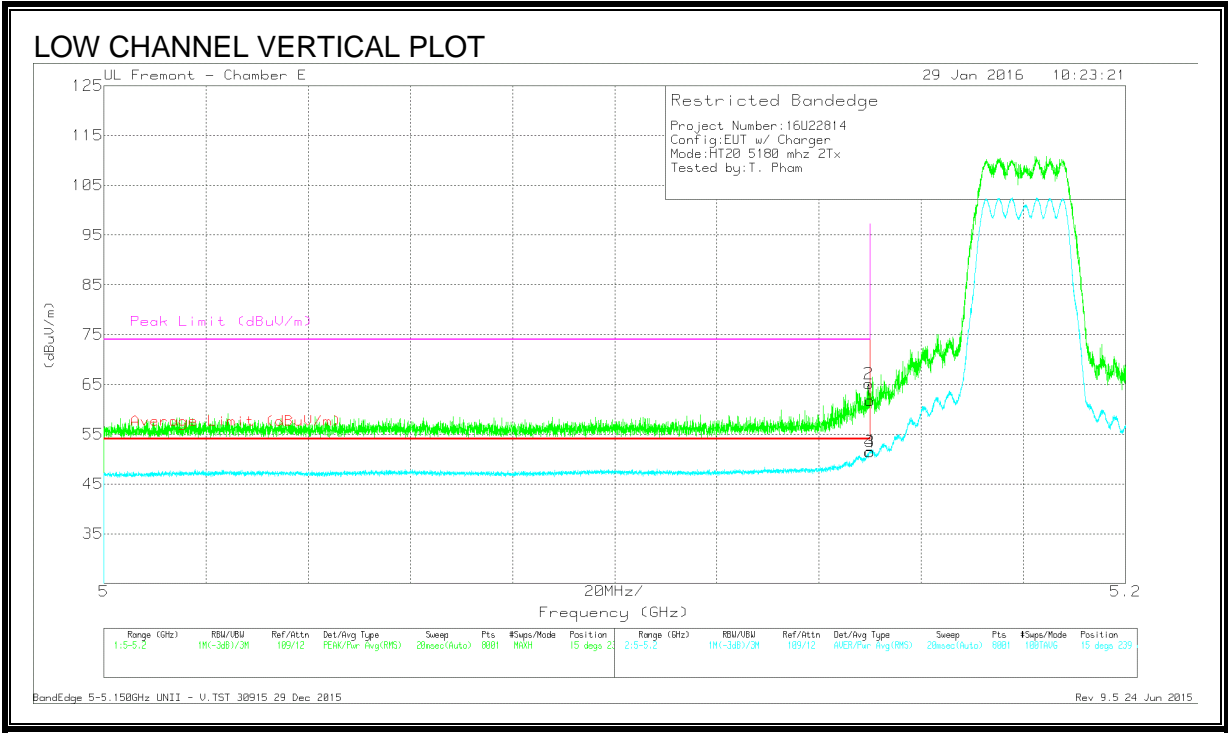
DATA

Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	41.22	Pk	34.4	-18.5	57.12	-	-	74	-16.88	168	393	H
2	* 5.092	43.46	Pk	34.3	-18.4	59.36	-	-	74	-14.64	168	393	H
3	* 5.15	31.05	RMS	34.4	-18.5	46.95	54	-7.05	-	-	168	393	H
4	* 5.128	31.82	RMS	34.4	-18.4	47.82	54	-6.18	-	-	168	393	H

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection



DATA

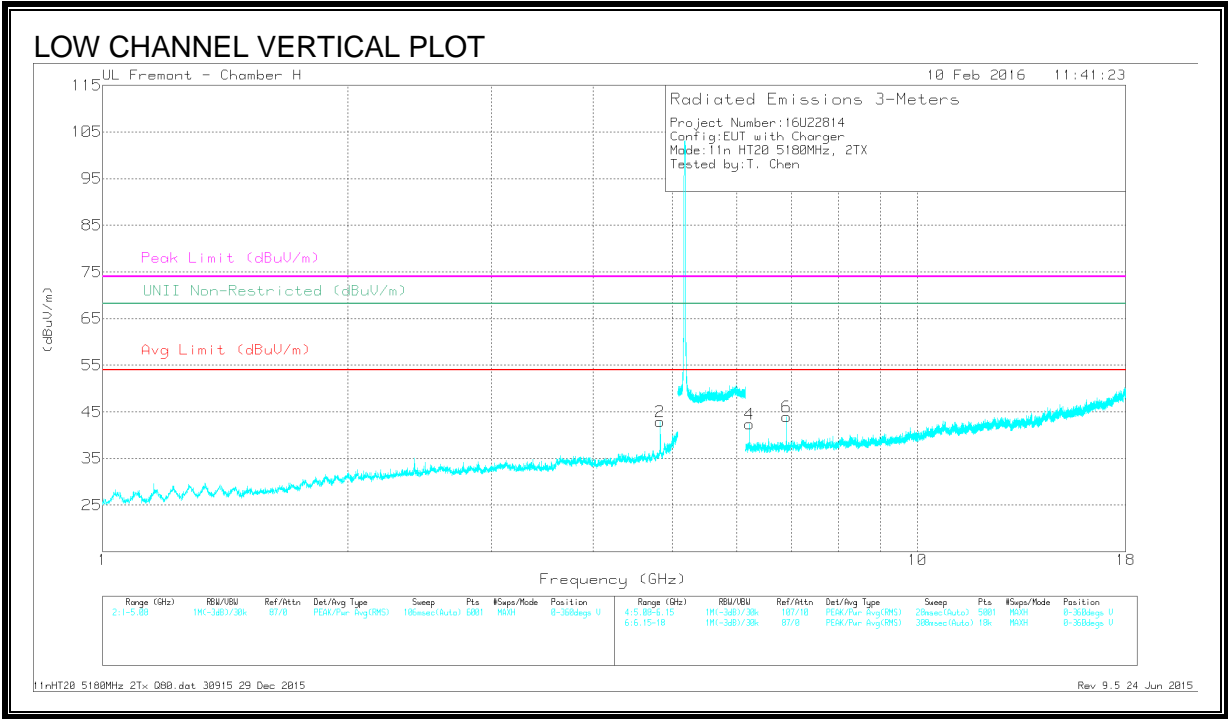
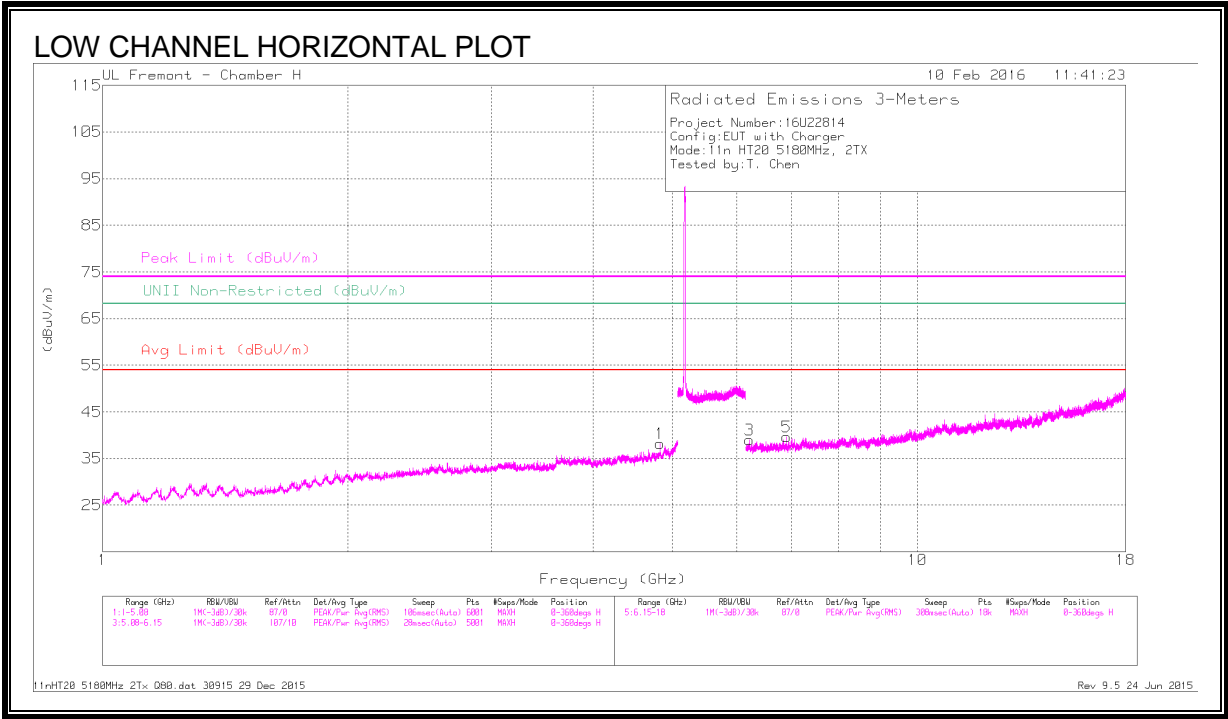
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	46.47	Pk	34.3	-19	61.77	-	-	74	-12.23	15	239	V
2	* 5.15	49.86	Pk	34.3	-19	65.16	-	-	74	-8.84	15	239	V
3	* 5.15	36.21	RMS	34.3	-19	51.51	54	-2.49	-	-	15	239	V
4	* 5.15	36.16	RMS	34.3	-19	51.46	54	-2.54	-	-	15	239	V

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS



## DATA

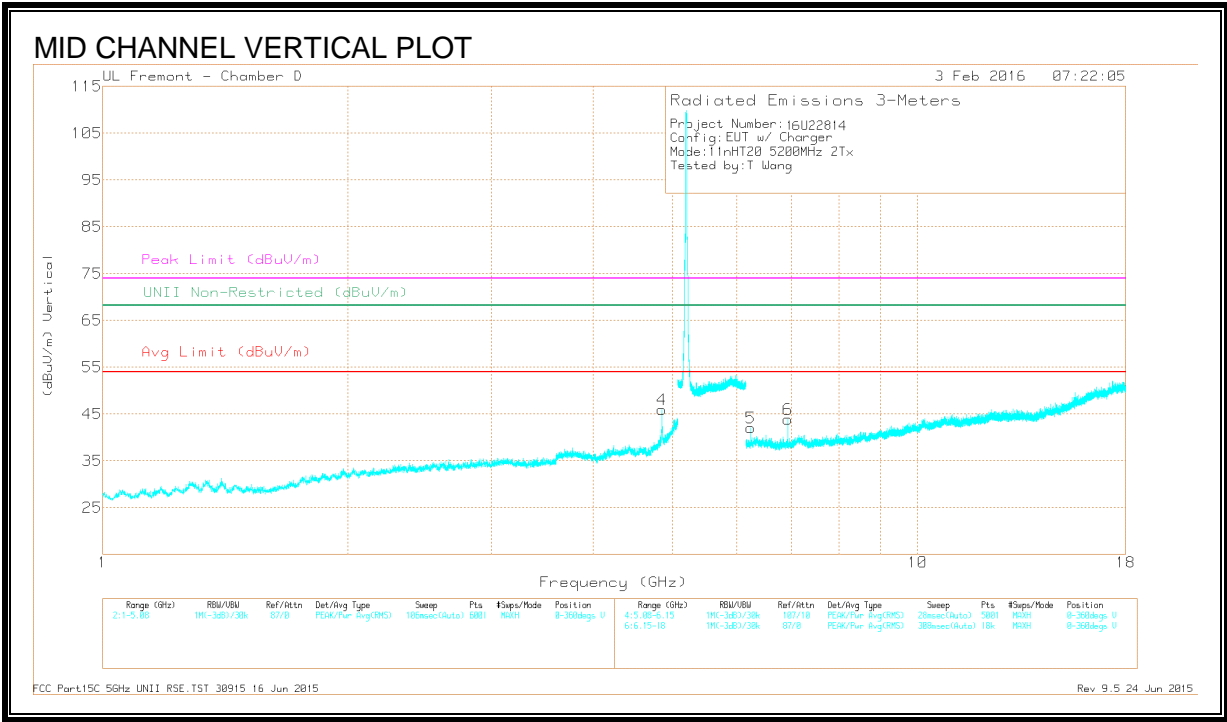
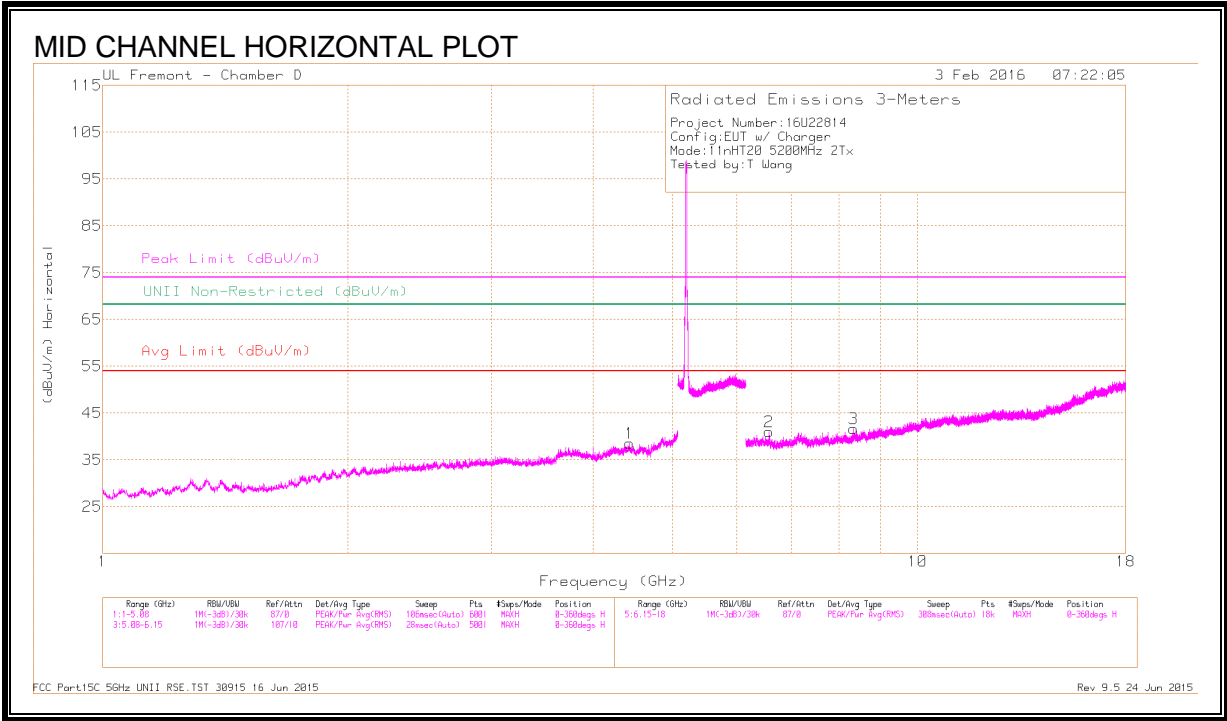
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.835	42.52	PK-U	34.2	-29.4	0	47.32	-	-	74	-26.68	-	-	289	347	H
	* 4.835	34.17	ADR	34.2	-29.4	0	38.97	54	-15.03	-	-	-	-	289	347	H
2	* 4.835	44.73	PK-U	34.2	-29.4	0	49.53	-	-	74	-24.47	-	-	276	222	V
	* 4.835	38.33	ADR	34.2	-29.4	0	43.13	54	-10.87	-	-	-	-	276	222	V
3	6.216	37.91	PK-U	35.5	-28.1	0	45.31	-	-	-	-	68.2	-22.89	95	342	H
4	6.216	41.37	PK-U	35.5	-28.1	0	48.77	-	-	-	-	68.2	-19.43	277	197	V
5	6.907	40.12	PK-U	35.8	-27.6	0	48.32	-	-	-	-	68.2	-19.88	316	343	H
6	6.907	40.98	PK-U	35.8	-27.6	0	49.18	-	-	-	-	68.2	-19.02	288	166	V

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS



## DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cb/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.853	43.02	PK-U	34.1	-25.4	0	51.72	-	-	74	-22.28	-	-	284	207	V
	* 4.853	35.27	ADR	34.1	-25.4	.12	44.09	54	-9.91	-	-	-	-	284	207	V
3	* 8.349	36.24	PK-U	35.7	-23.3	0	48.64	-	-	74	-25.36	-	-	163	399	H
	* 8.35	23.64	ADR	35.7	-23.3	.12	36.16	54	-17.84	-	-	-	-	163	399	H
1	4.432	38.02	PK-U	33.9	-27.2	0	44.72	-	-	-	-	68.2	-23.48	201	111	H
5	6.239	39.56	PK-U	35.4	-26.3	0	48.66	-	-	-	-	68.2	-19.54	194	204	V
2	6.575	36.53	PK-U	35.5	-25.2	0	46.83	-	-	-	-	68.2	-21.37	163	399	H
6	6.933	35.98	PK-U	35.5	-25.3	0	46.18	-	-	-	-	68.2	-22.02	194	204	V

\* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

