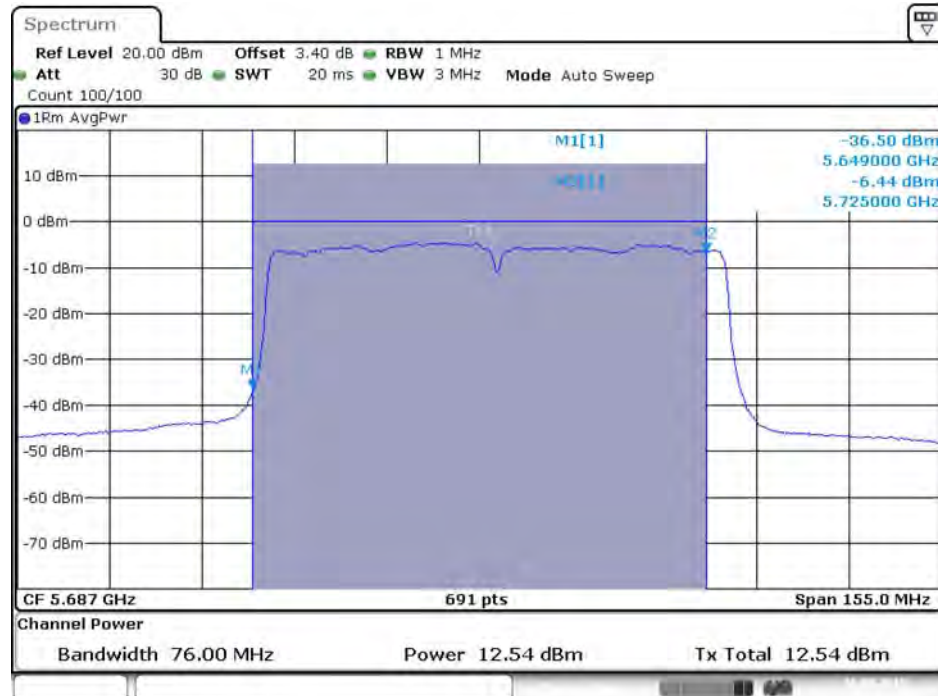
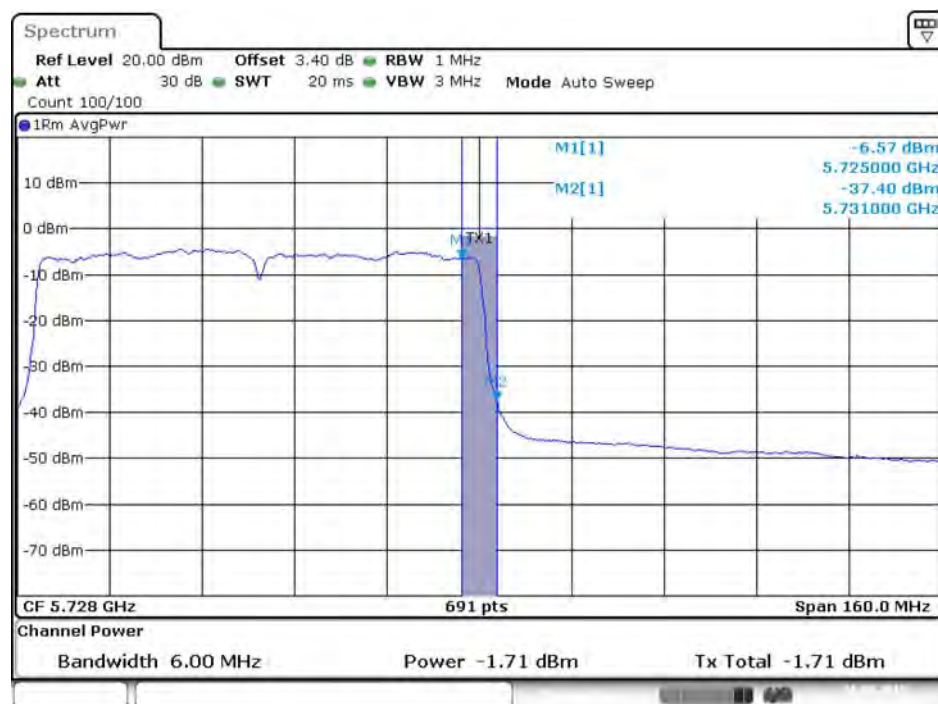


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 2C)



Date: 26.AUG.2015 11:33:05

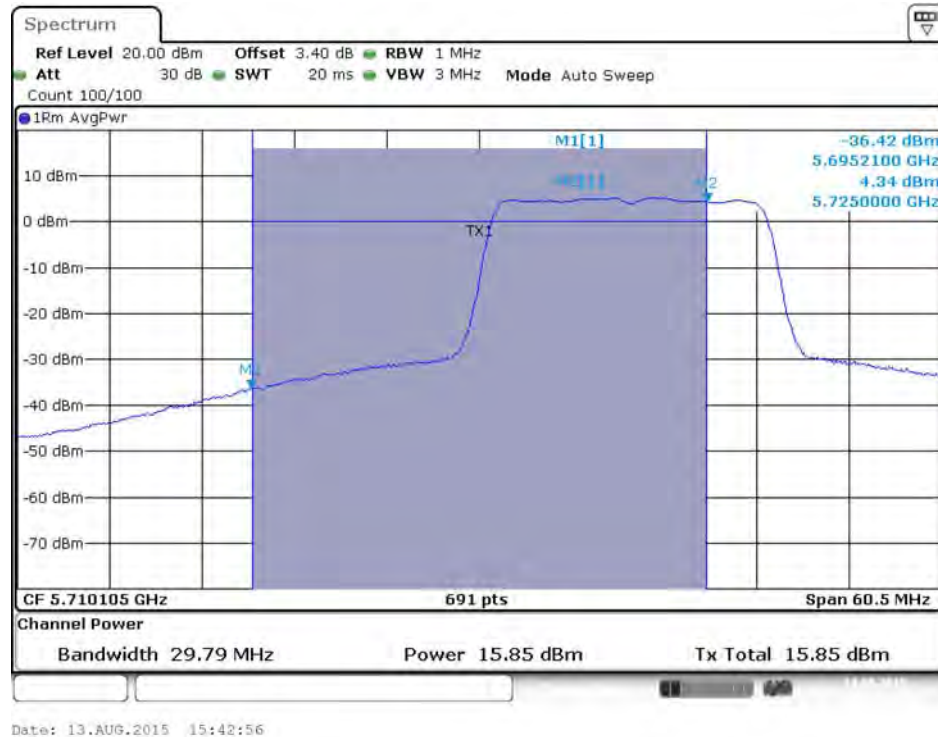
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 3)



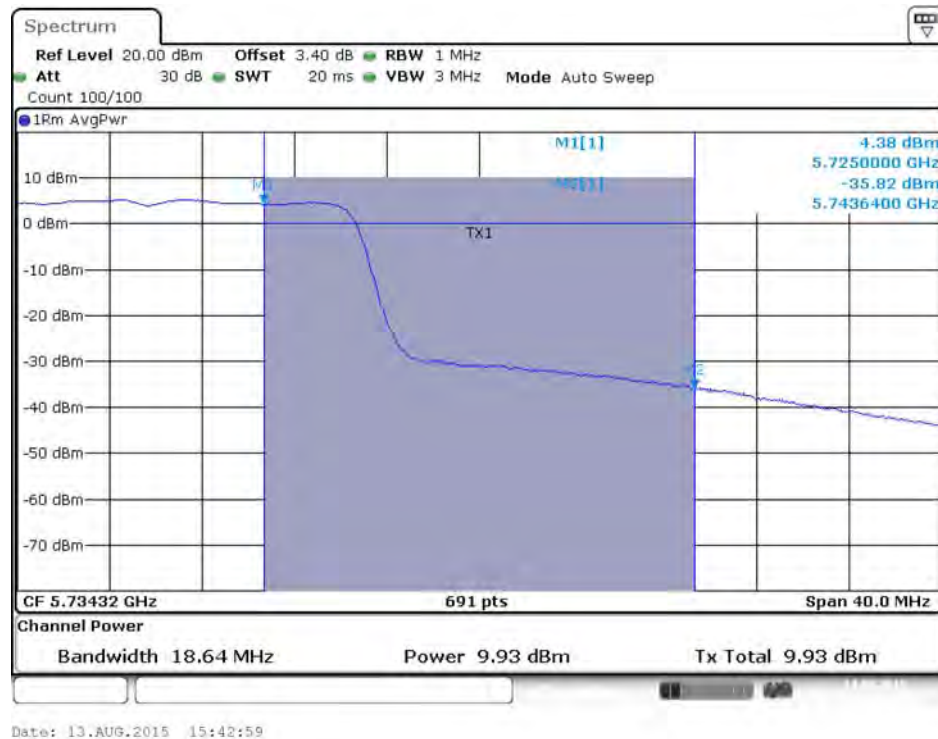
Date: 26.AUG.2015 11:33:08

## Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

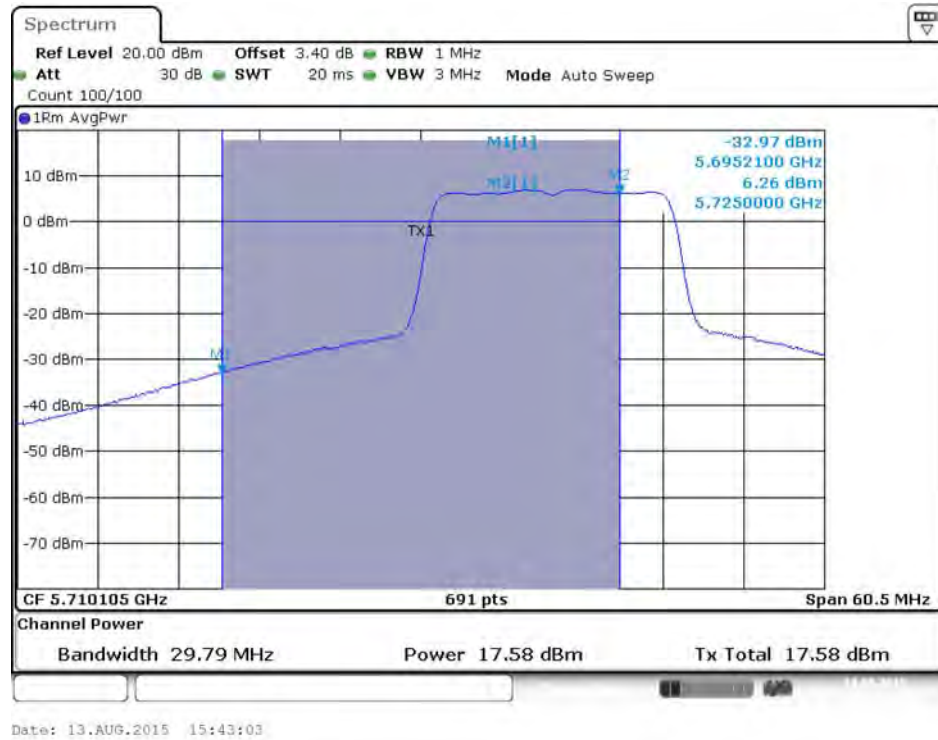
### Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5720 MHz (UNII 2C)



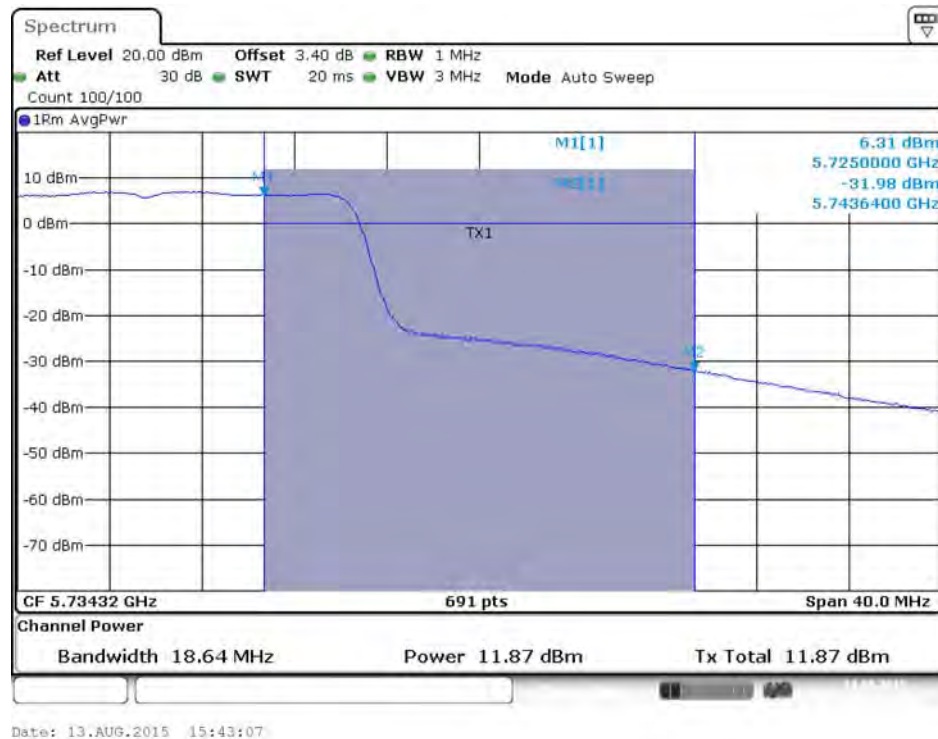
### Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5720 MHz (UNII 3)



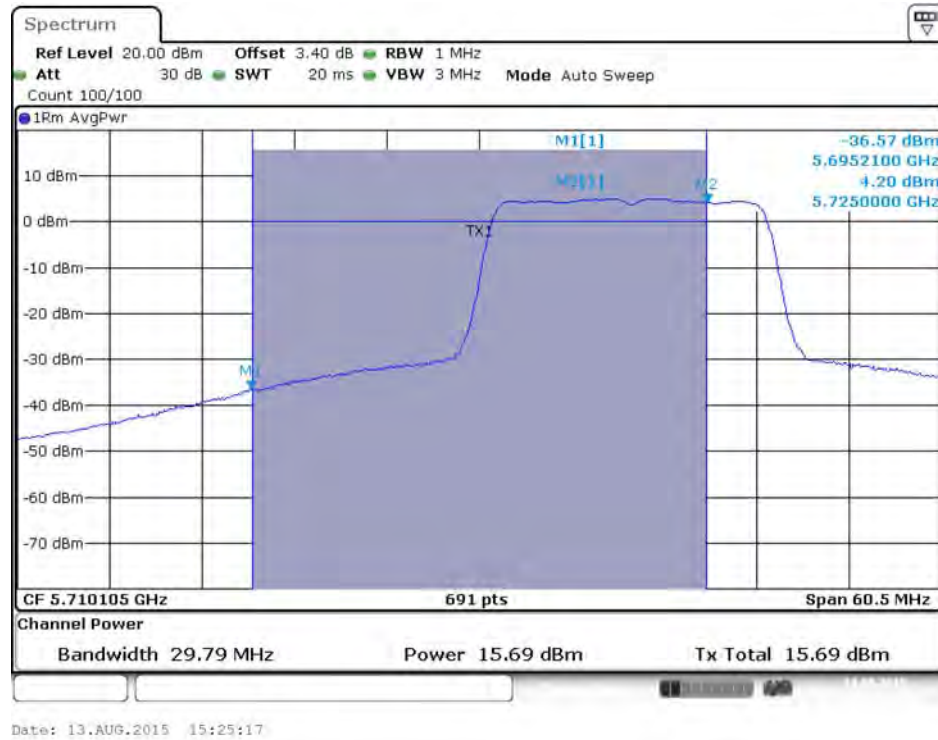
### Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 2 / 5720 MHz (UNII 2C)



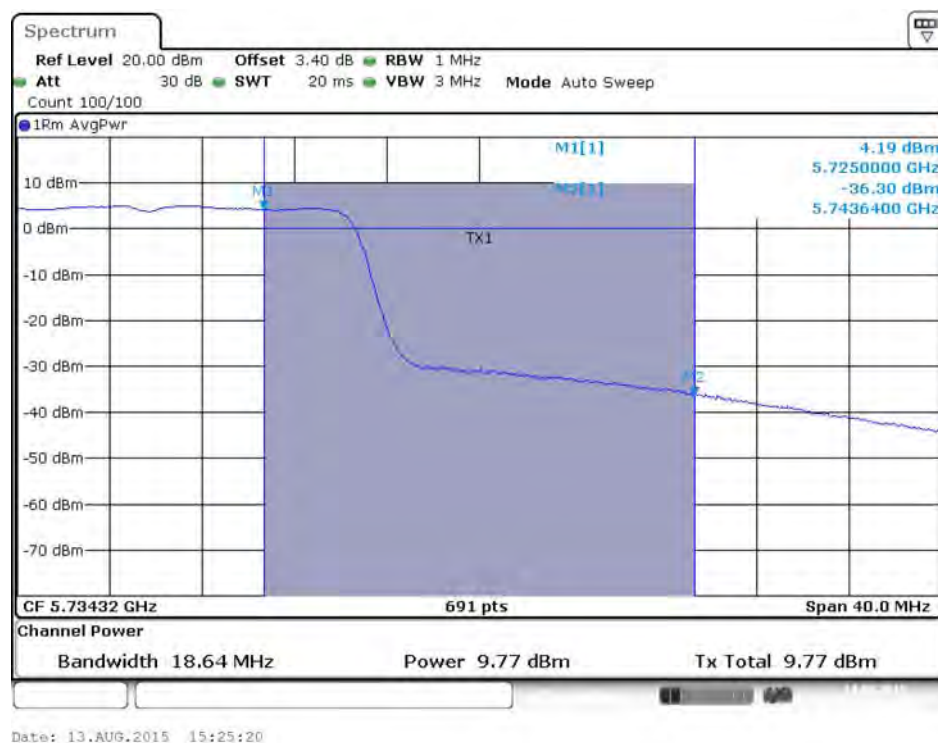
### Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 2 / 5720 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 2C)

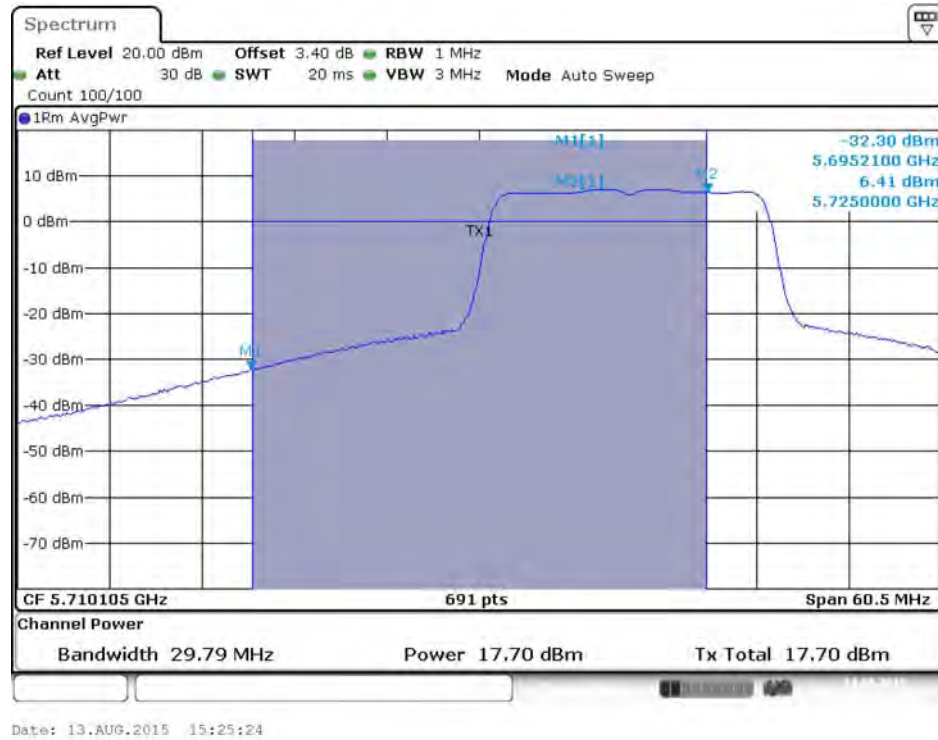


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)

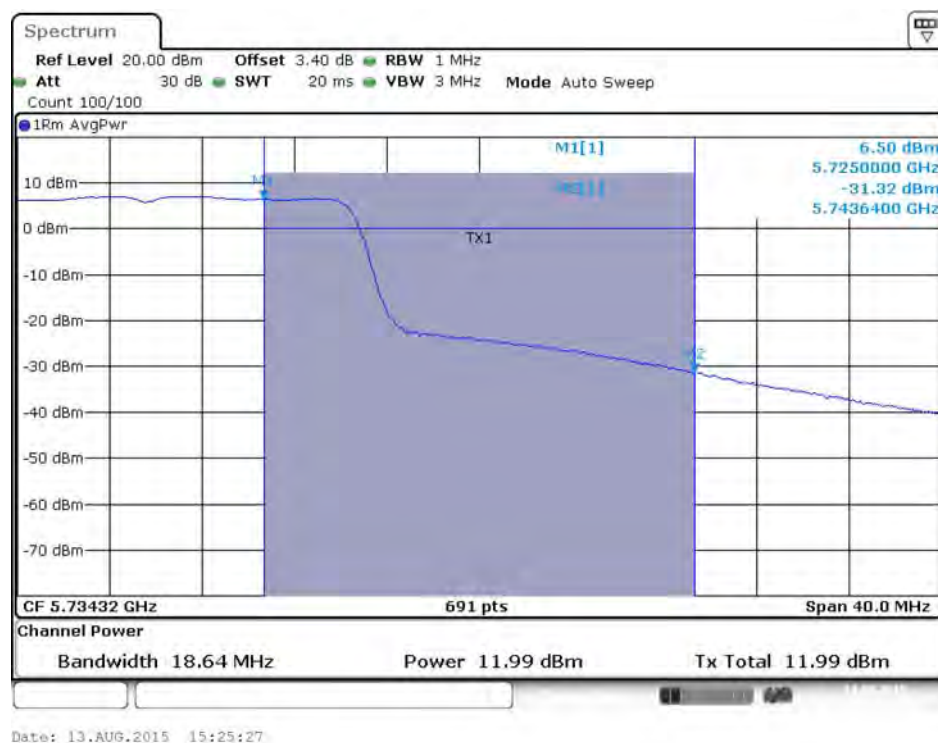




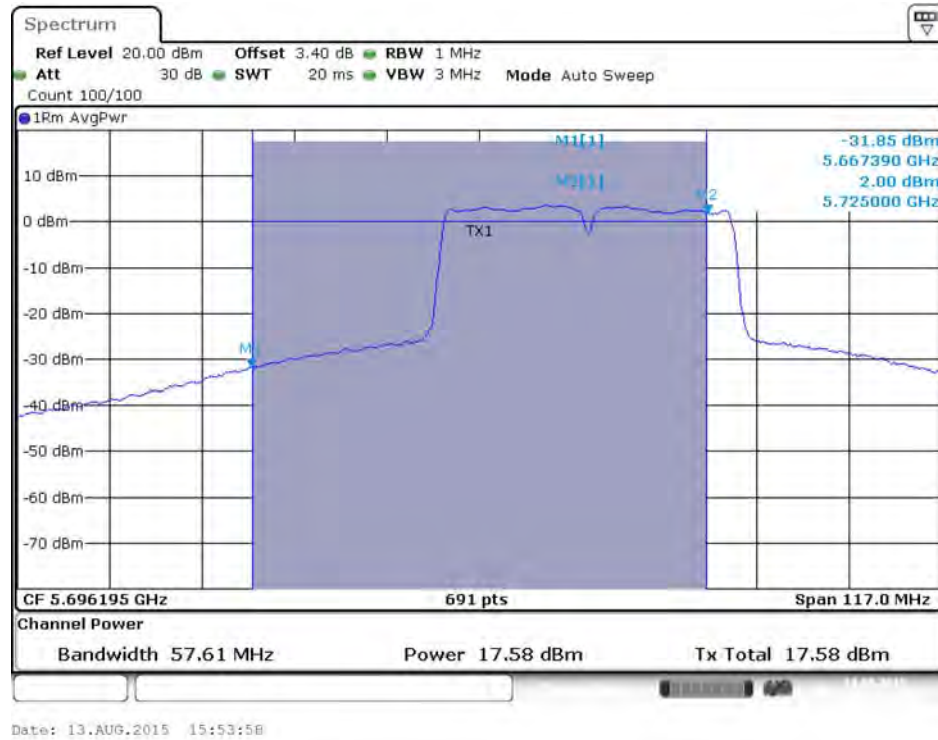
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 2C)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



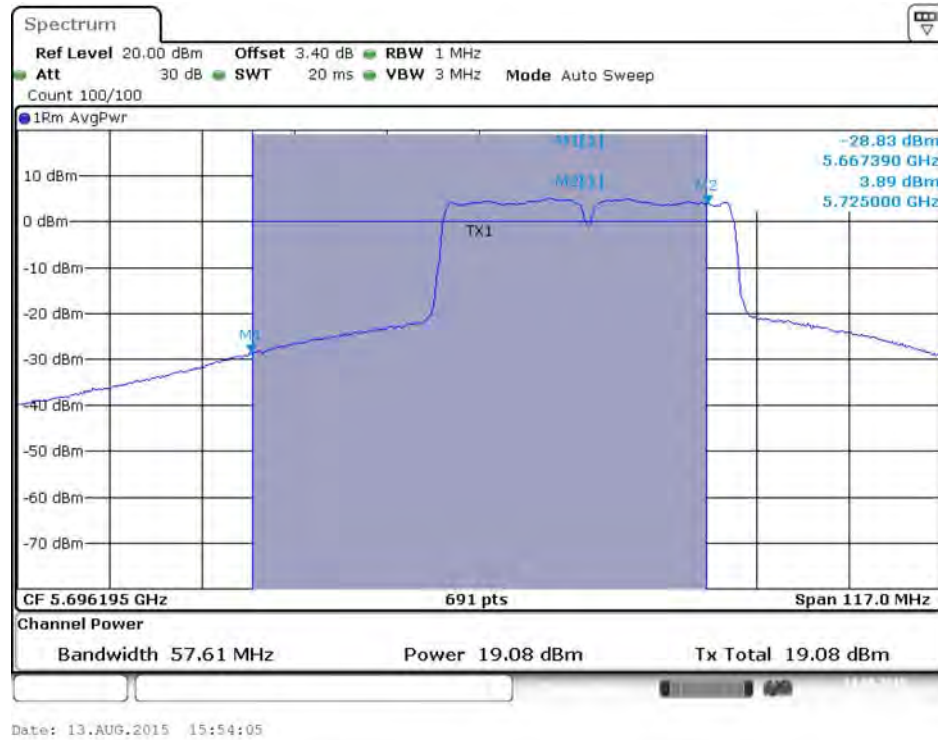
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



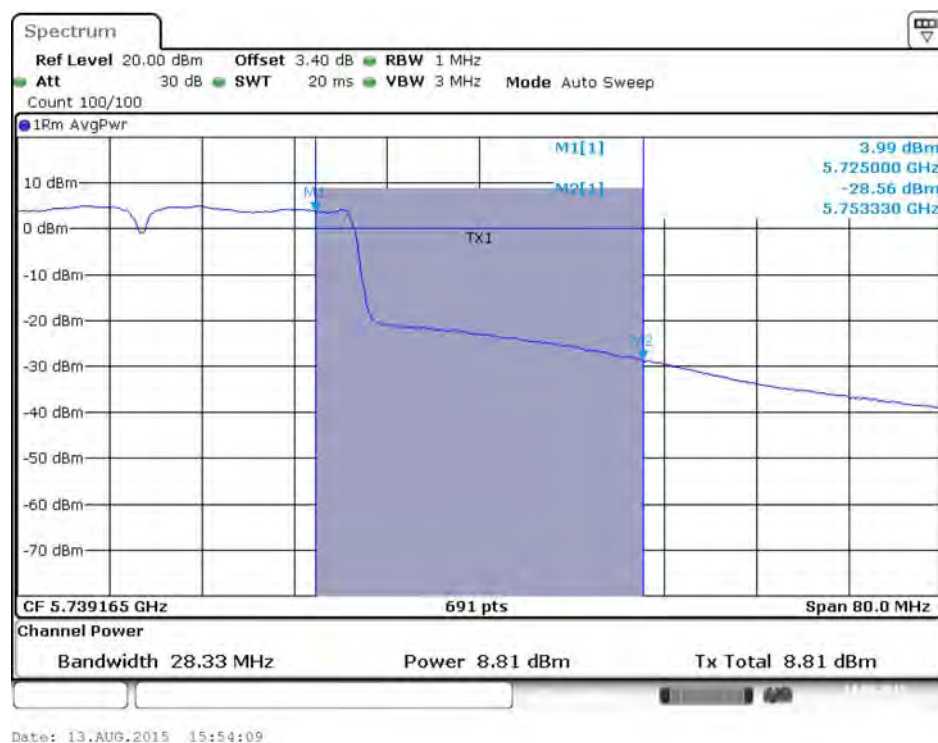
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)



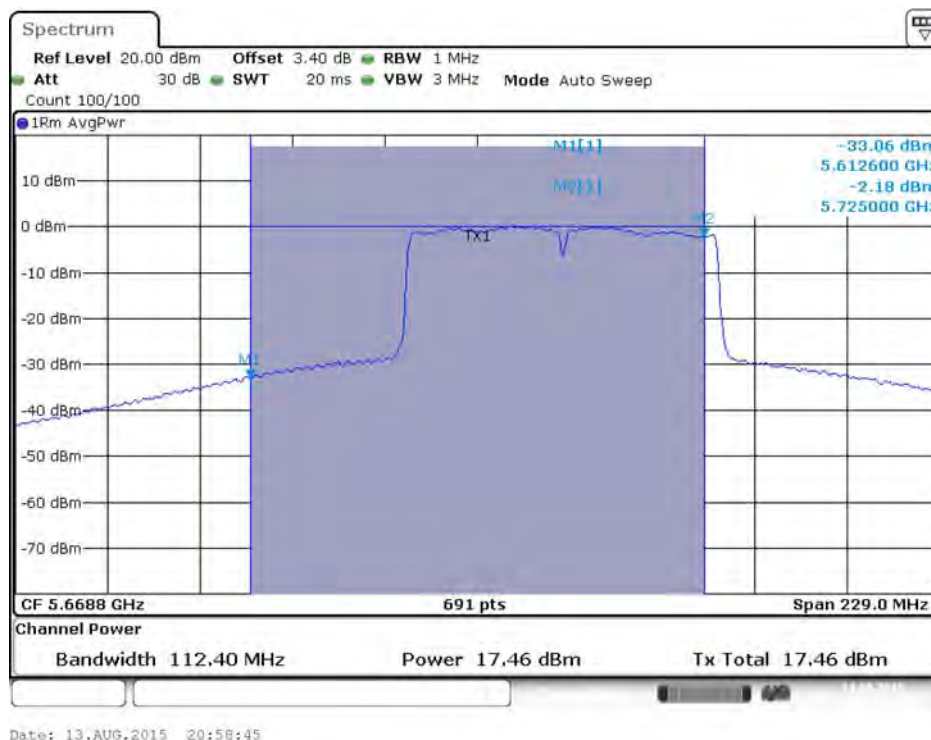
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)

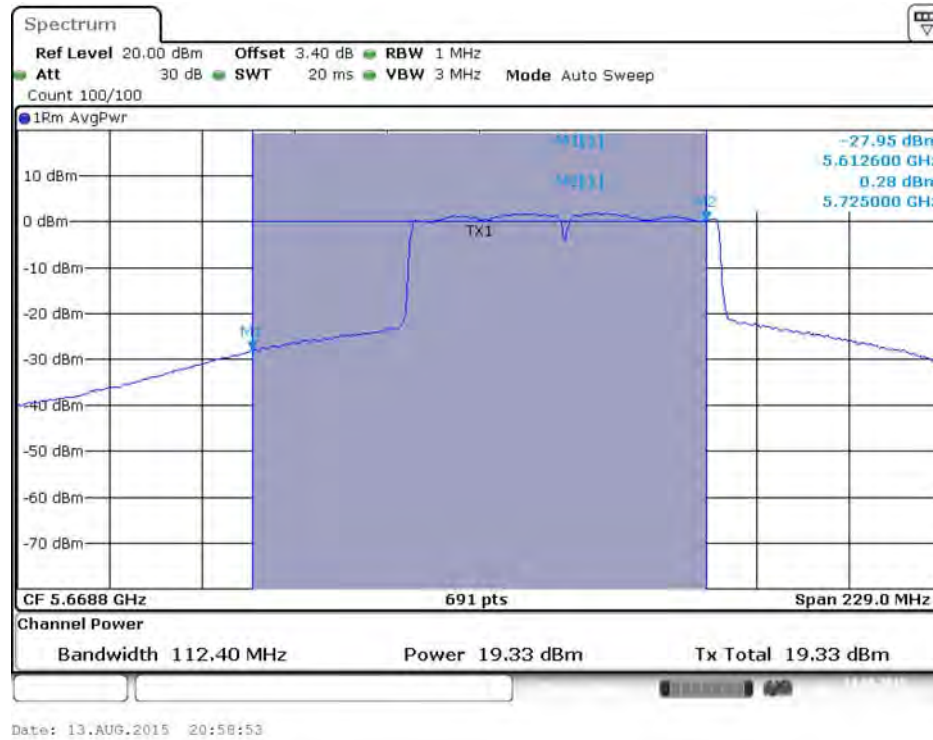


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)





### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)

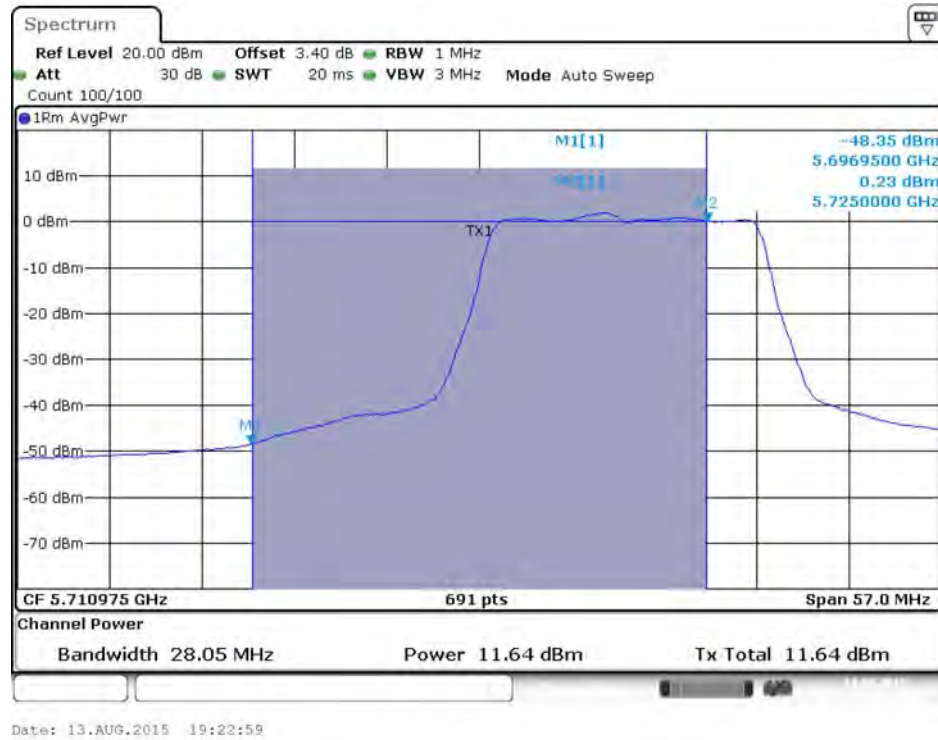


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)

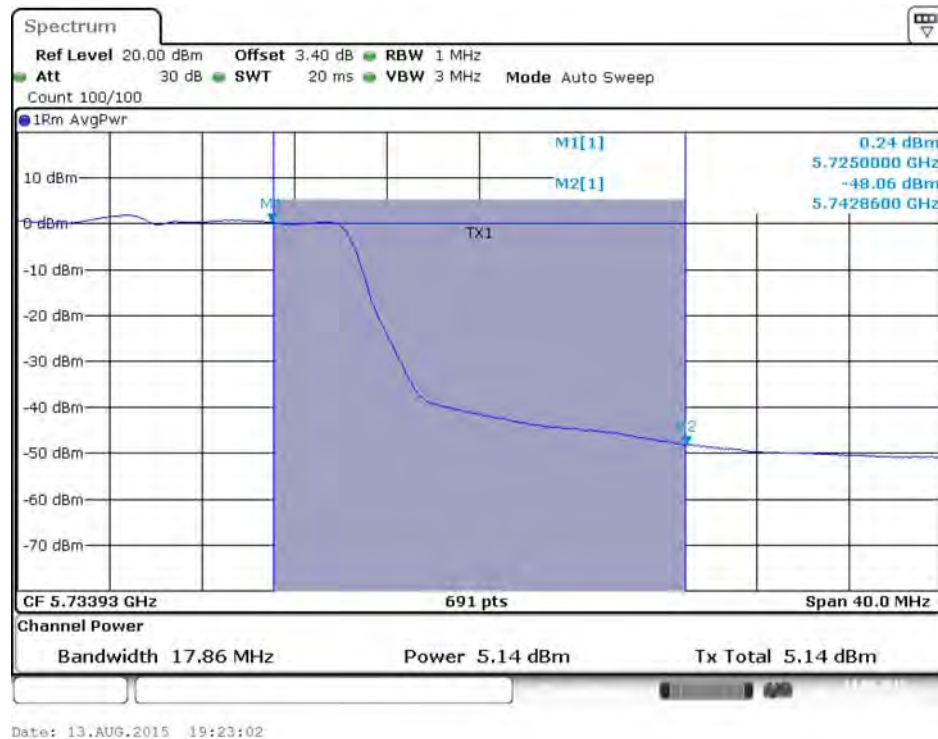


### Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

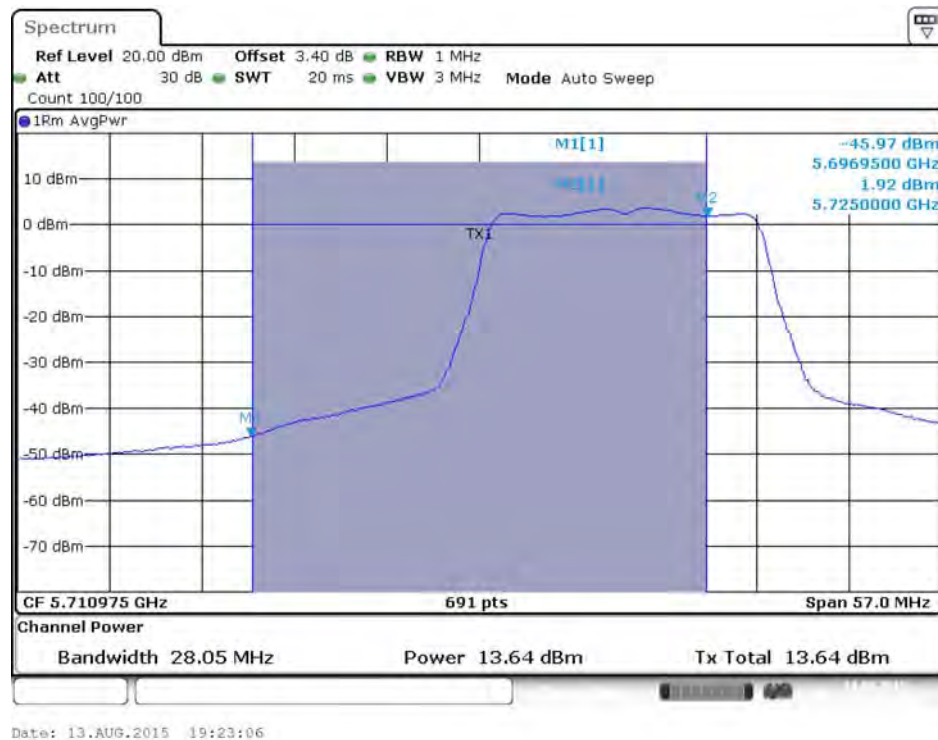
#### Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5720 MHz (UNII 2C)



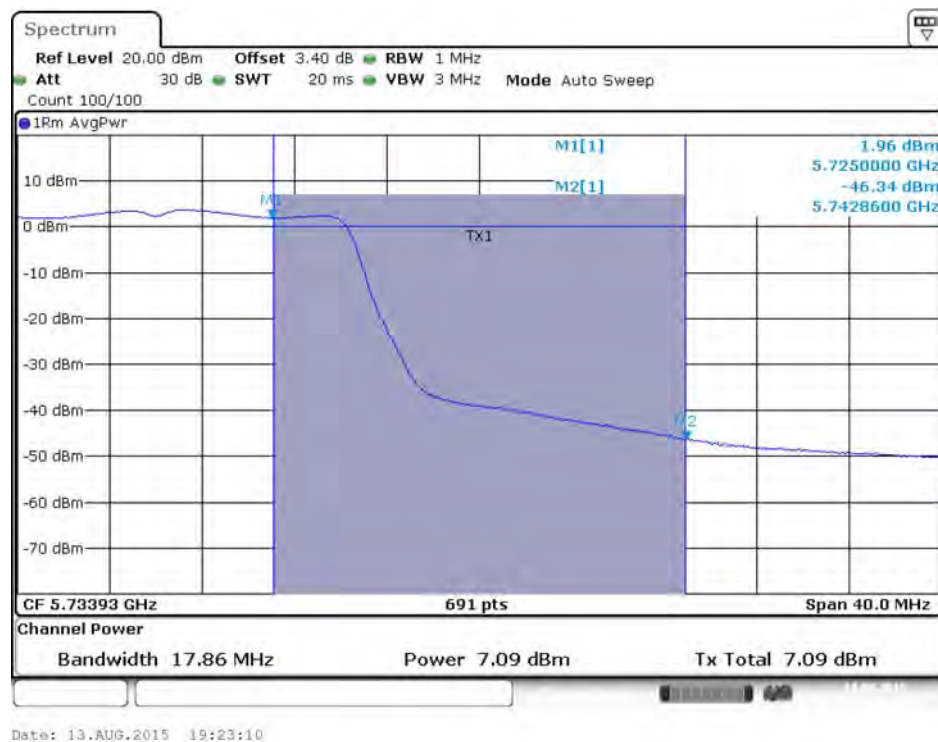
#### Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5720 MHz (UNII 3)



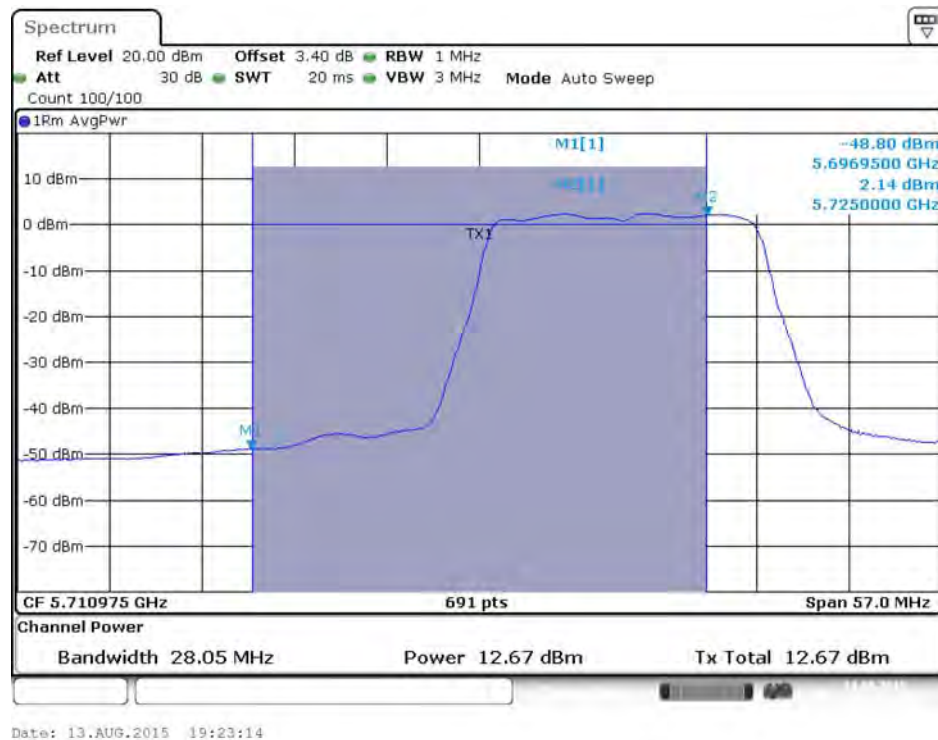
### Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 2 / 5720 MHz (UNII 2C)



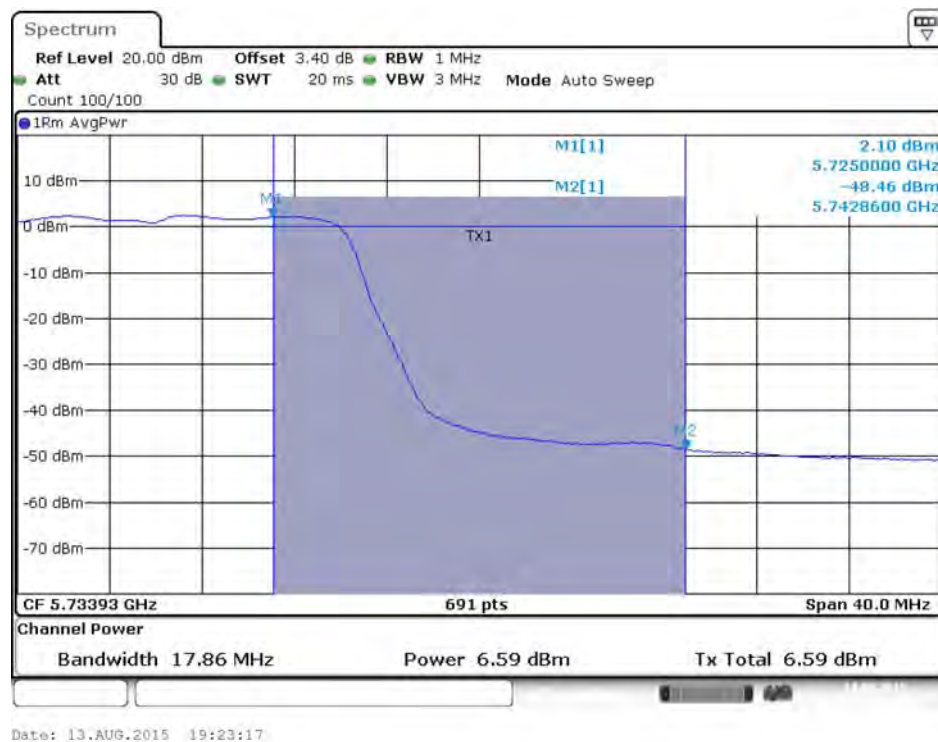
### Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 2 / 5720 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 3 / 5720 MHz (UNII 2C)

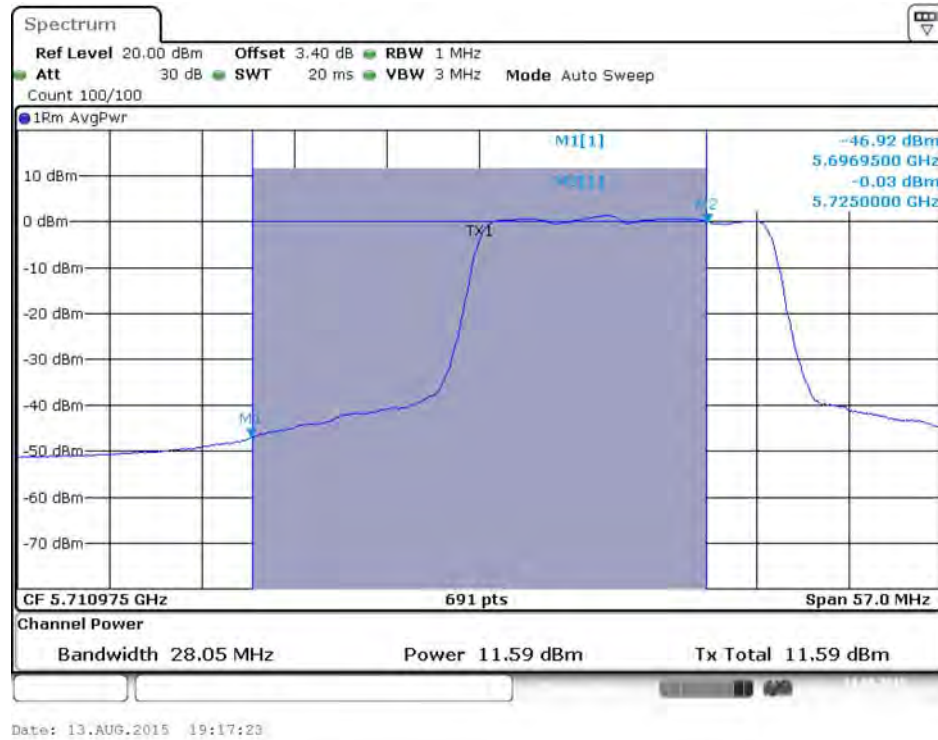


### Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 3 / 5720 MHz (UNII 3)

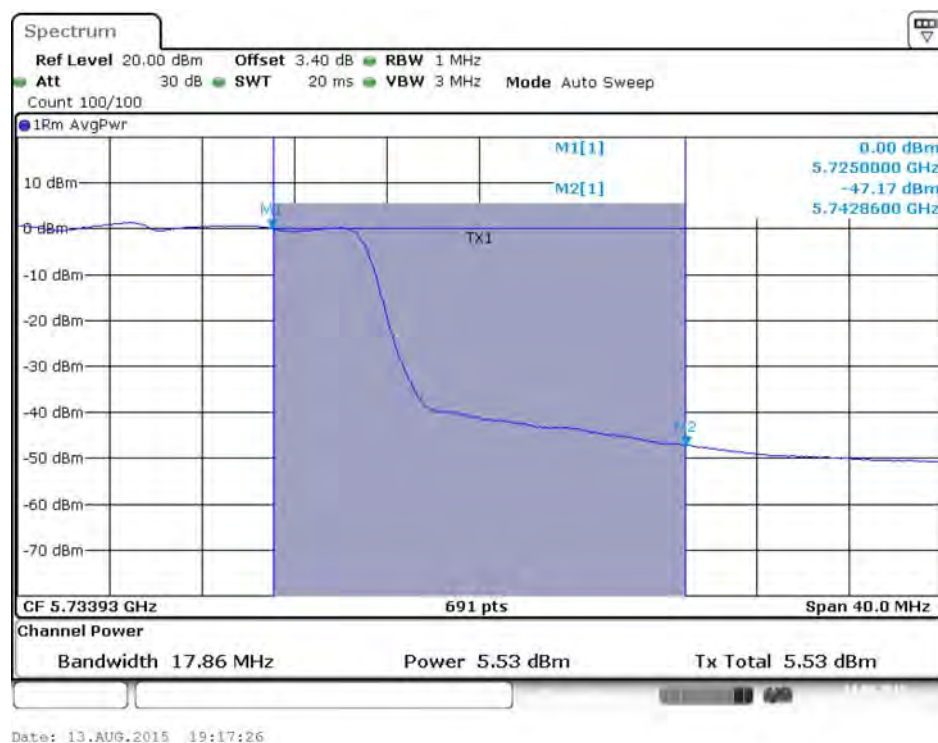




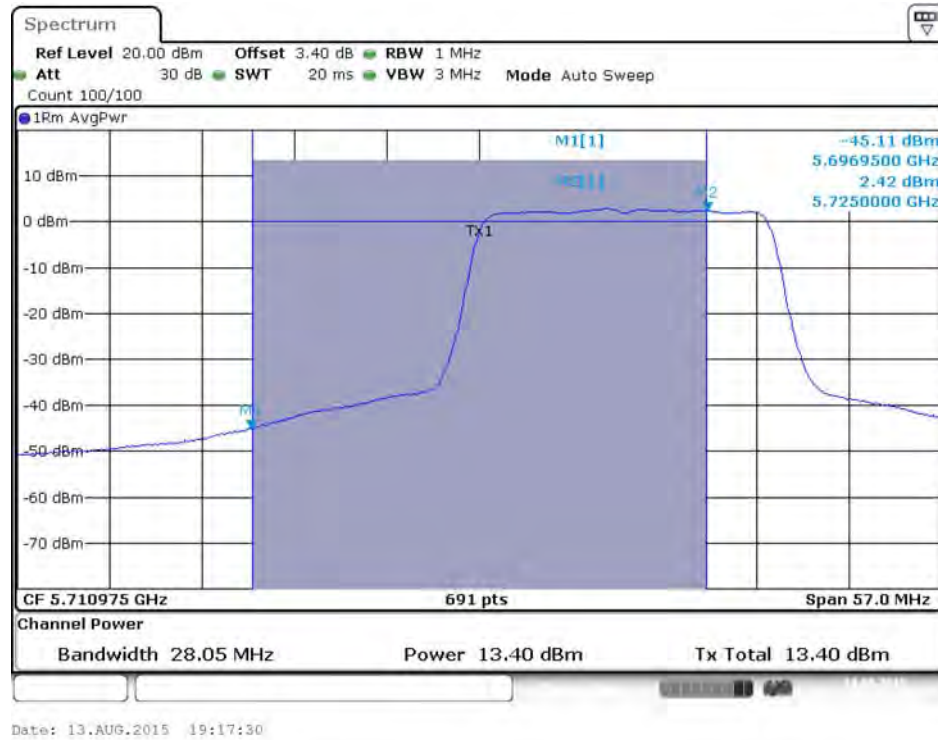
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 2C)



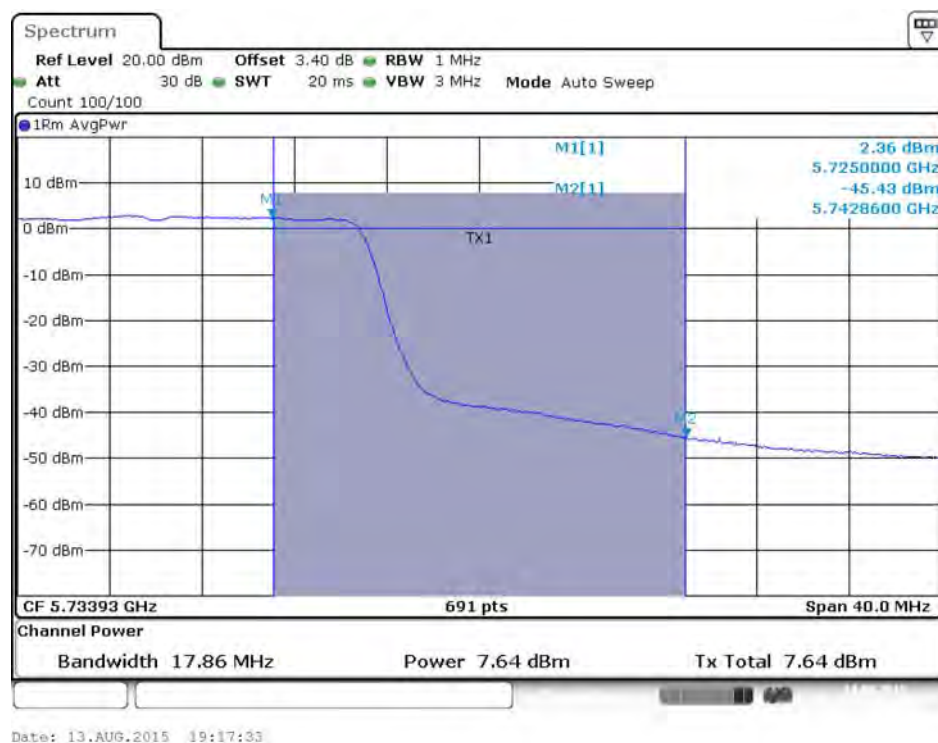
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)



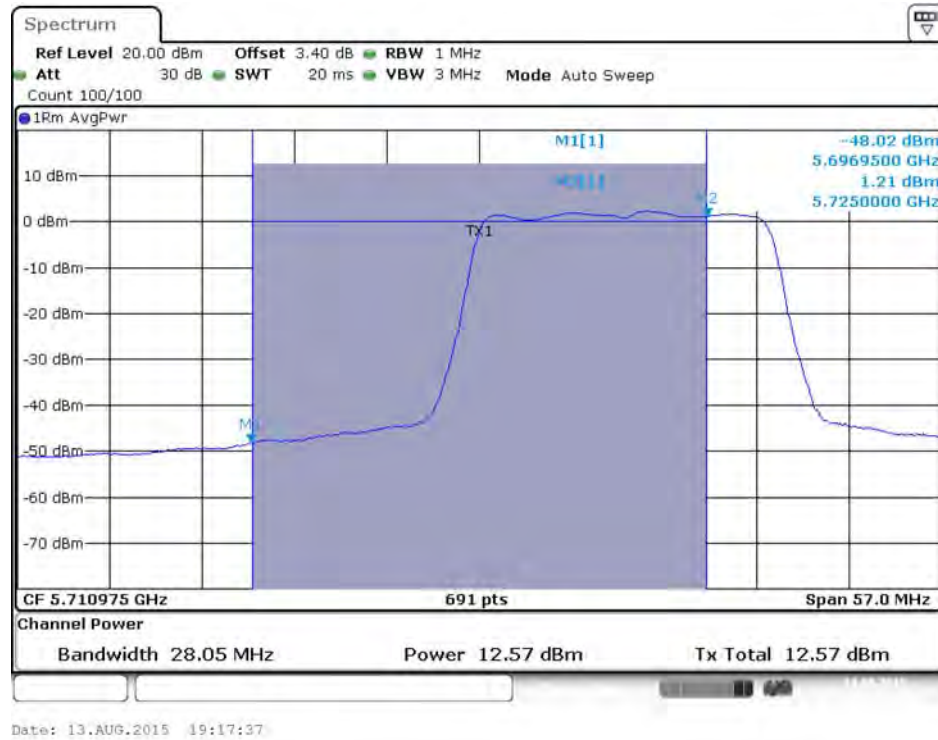
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 2C)



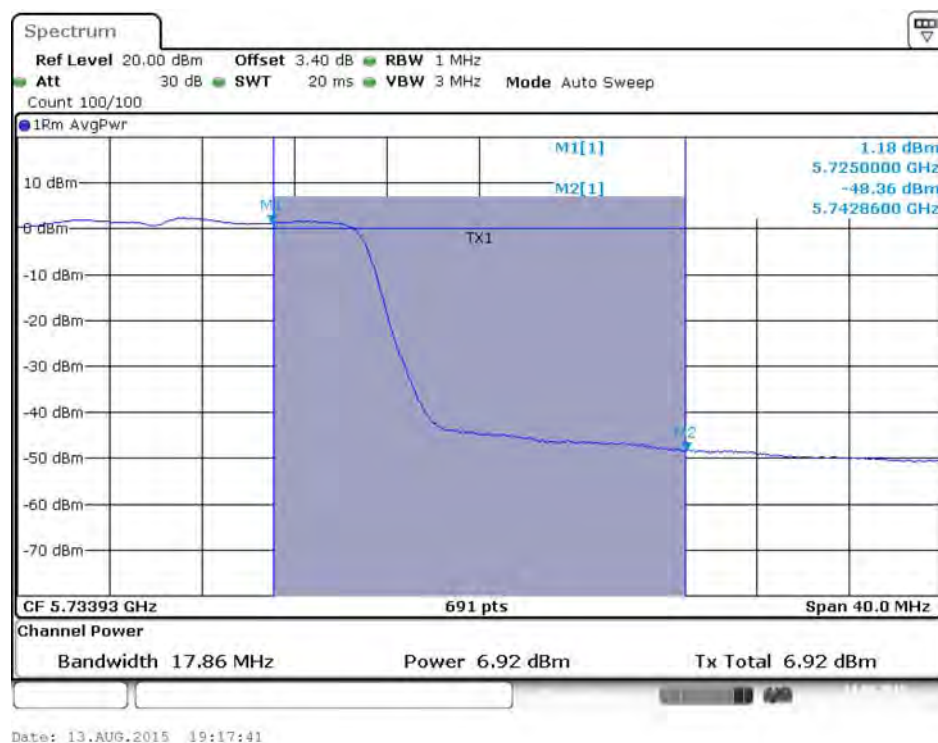
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



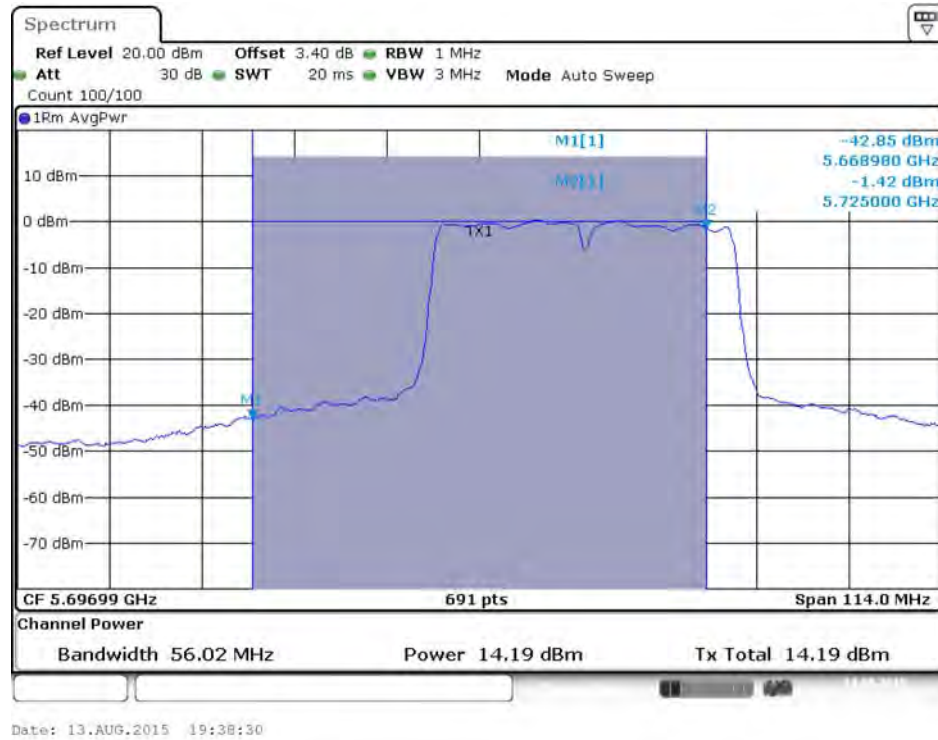
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 2C)



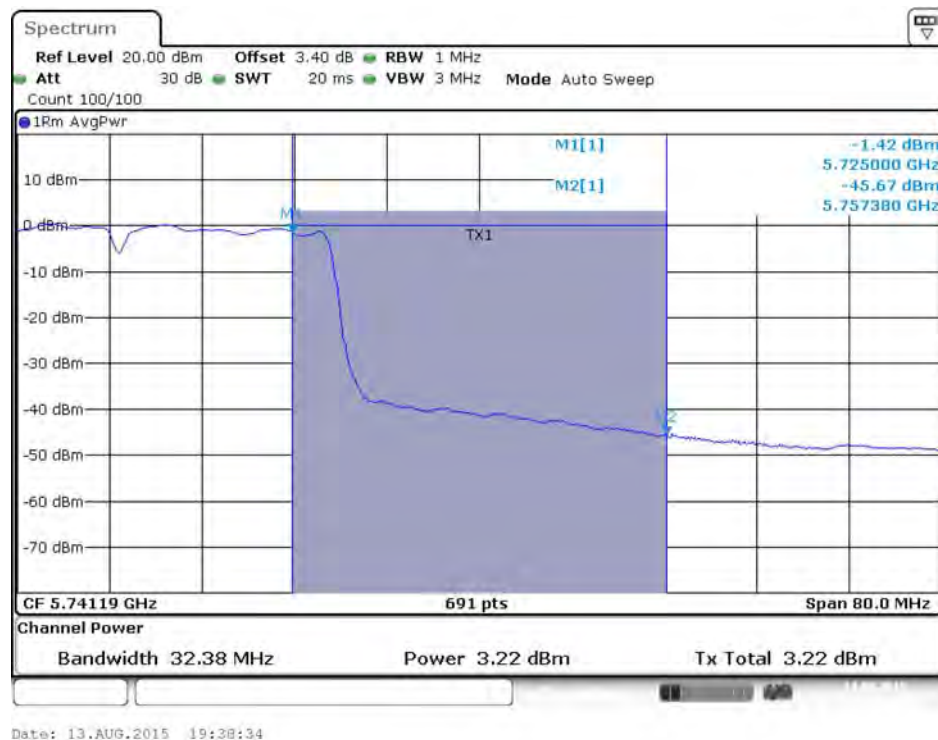
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)

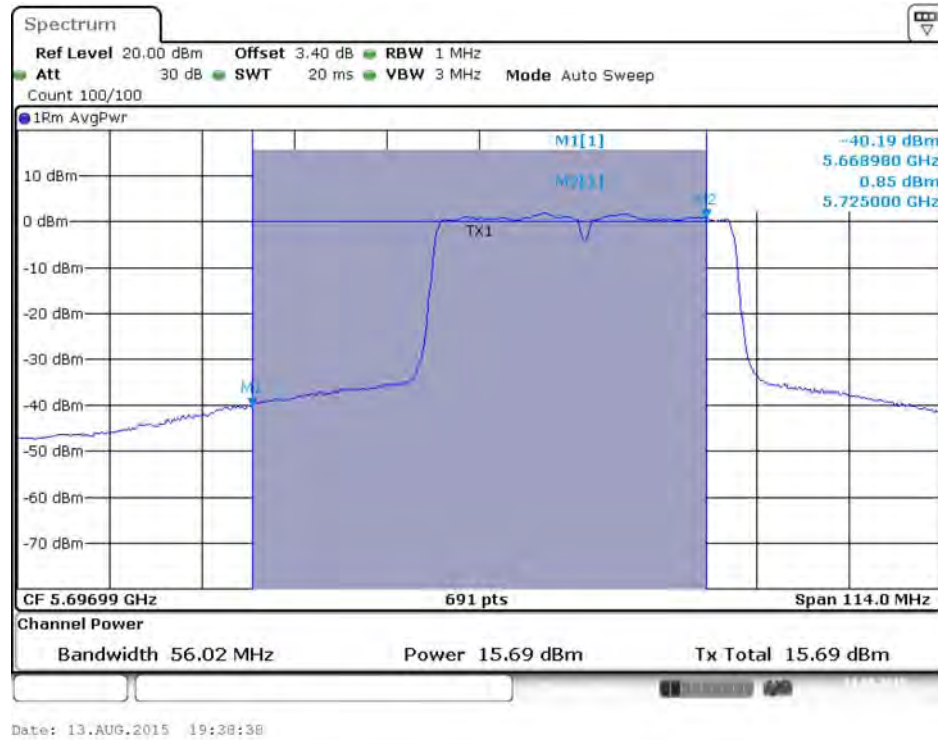


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)

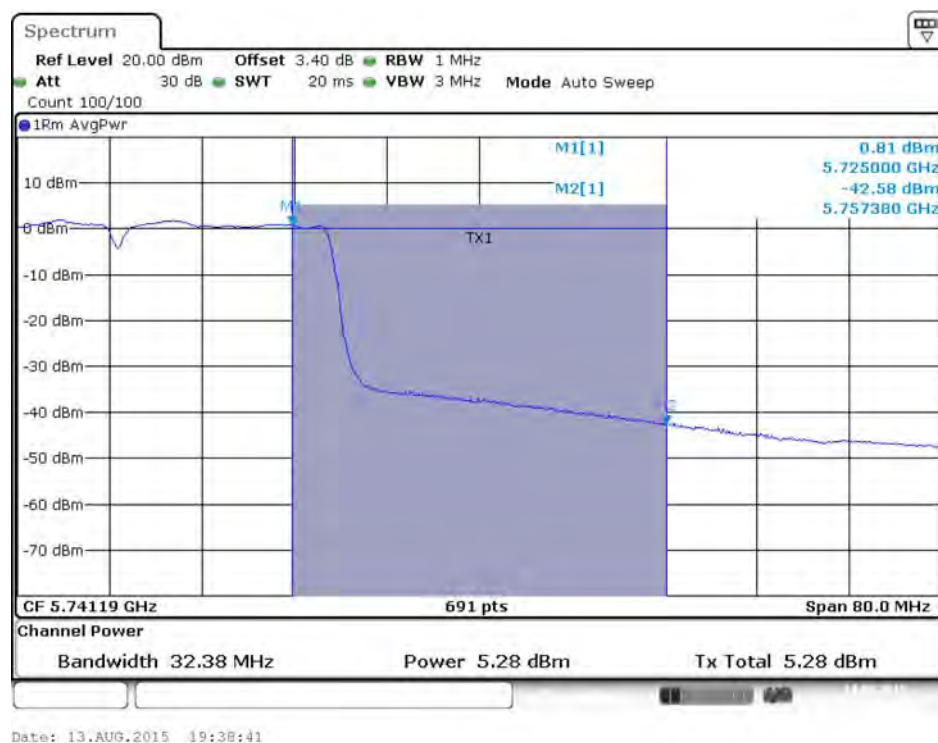




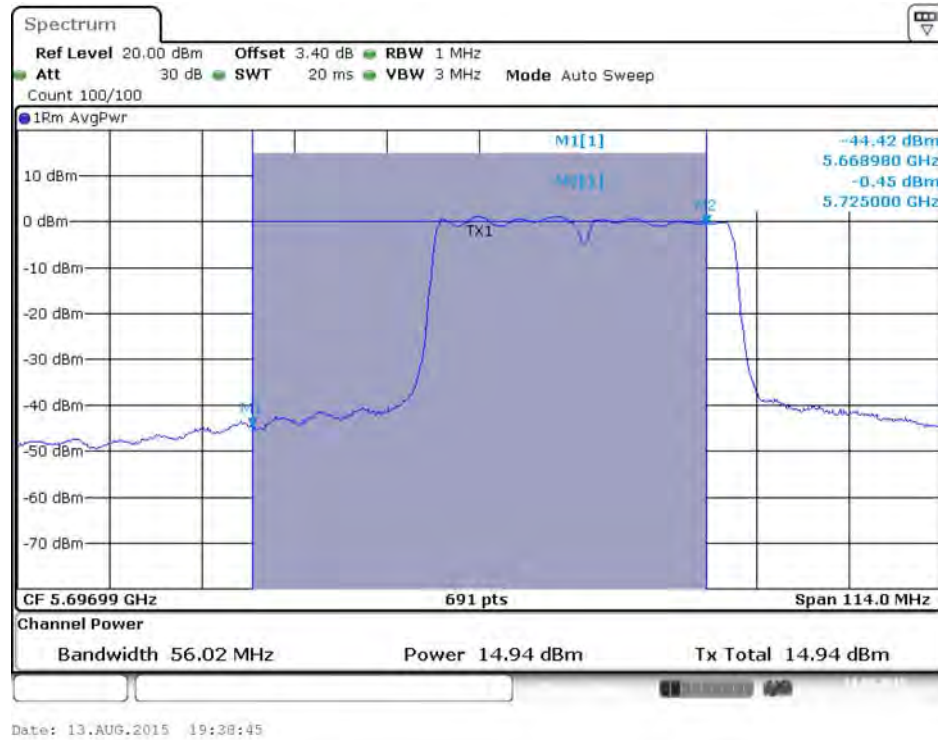
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)



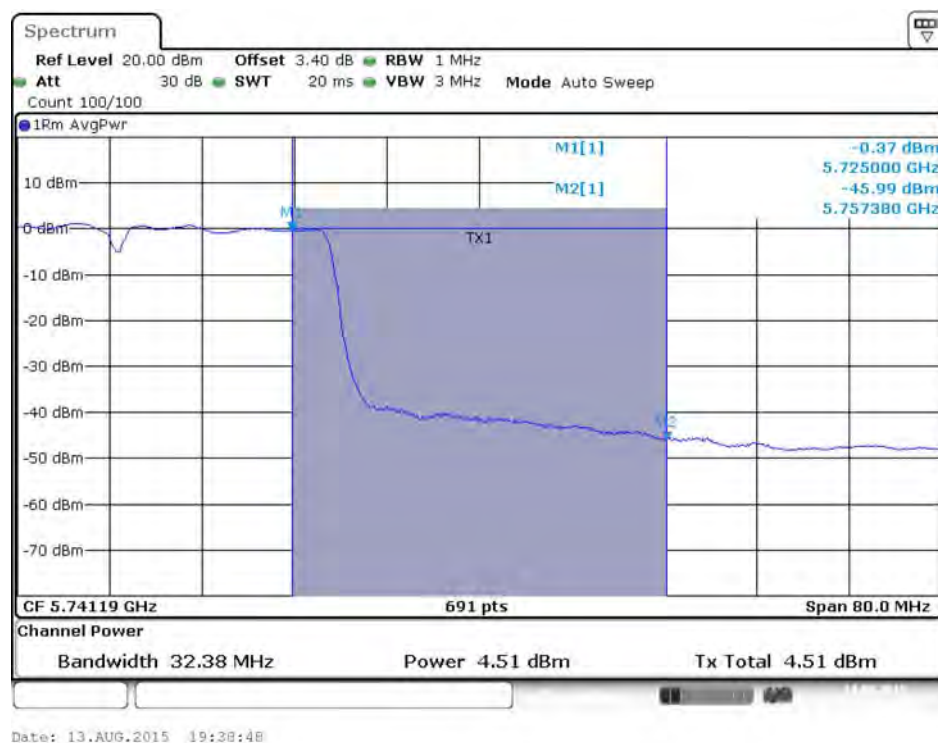
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 3)



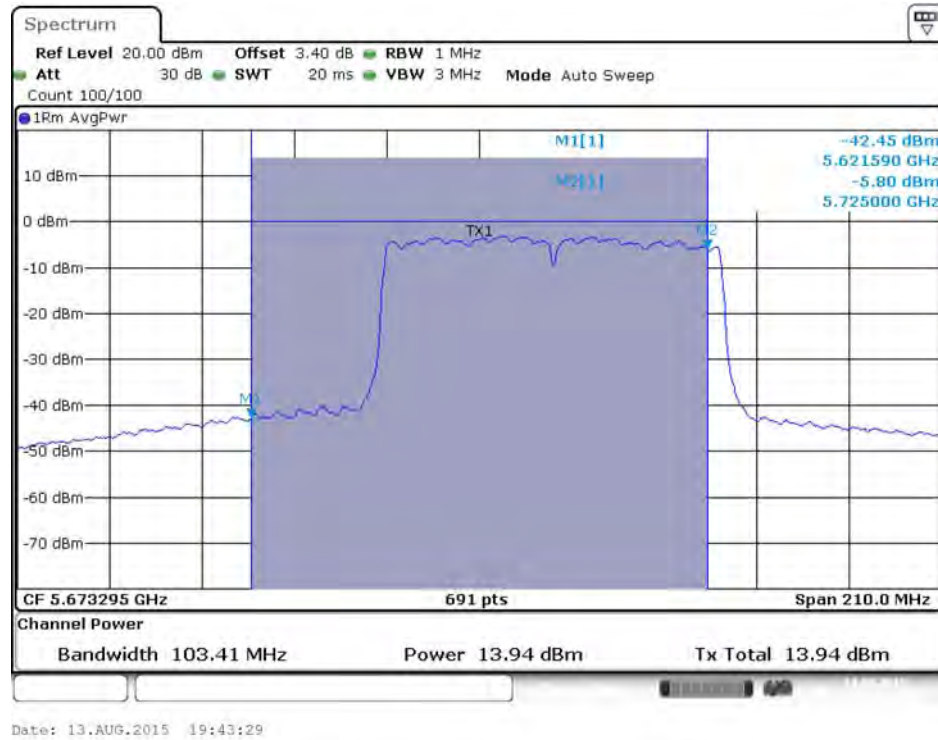
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 2C)



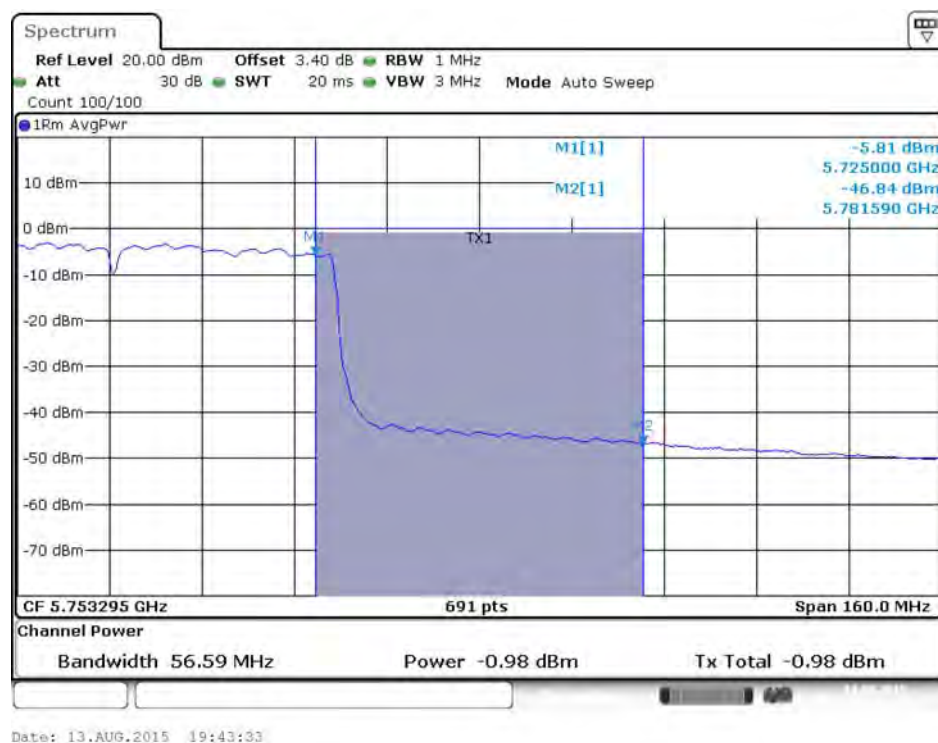
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 3)



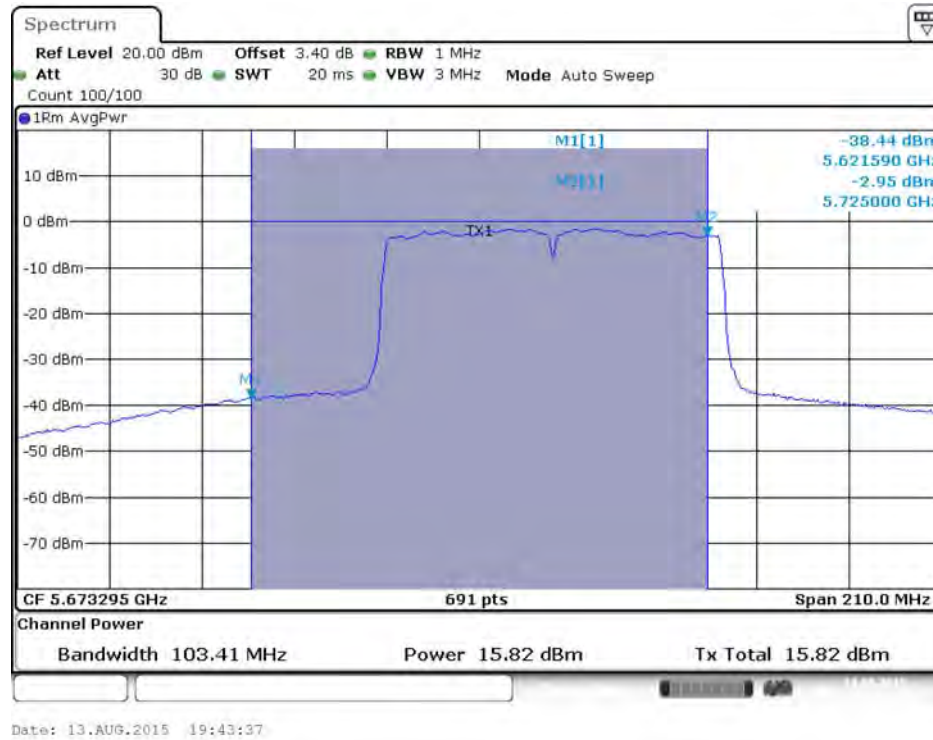
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)



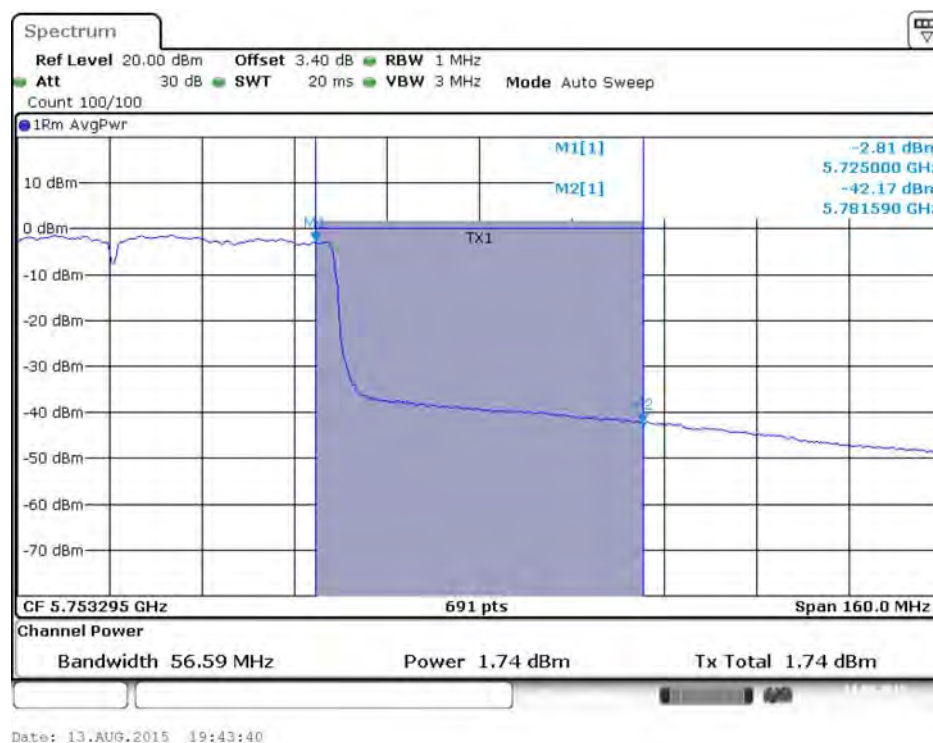
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)

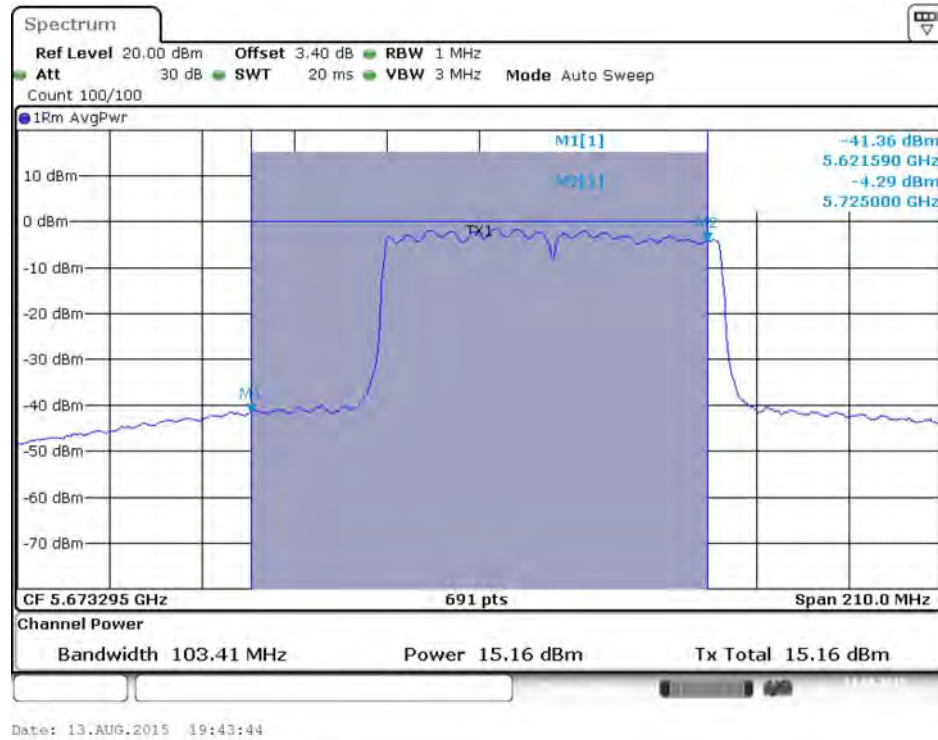


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)

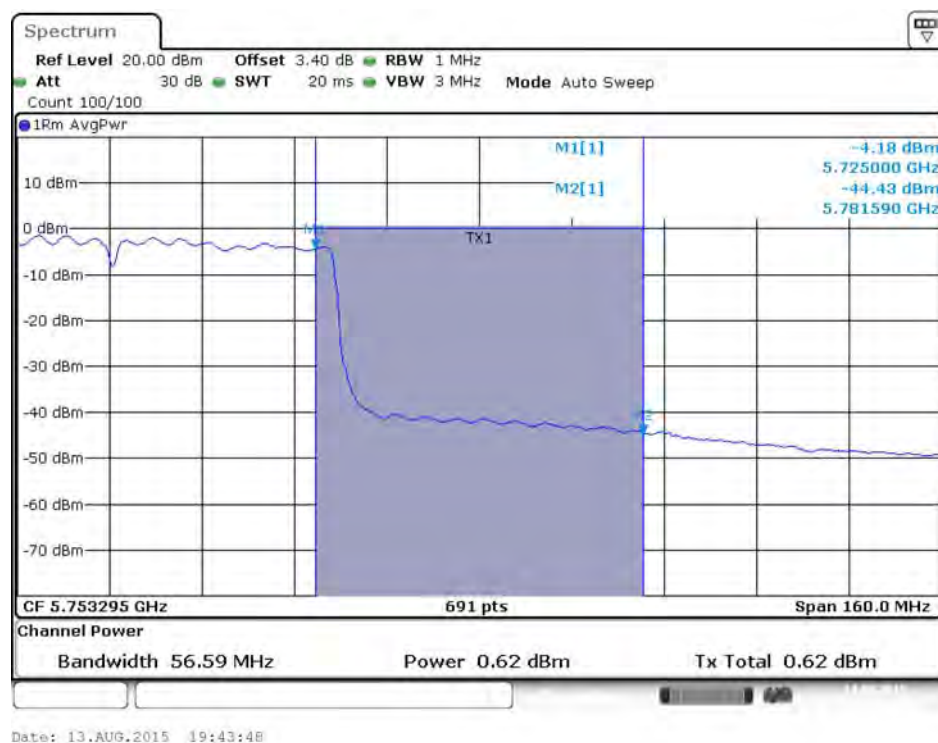




### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 2C)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 3)

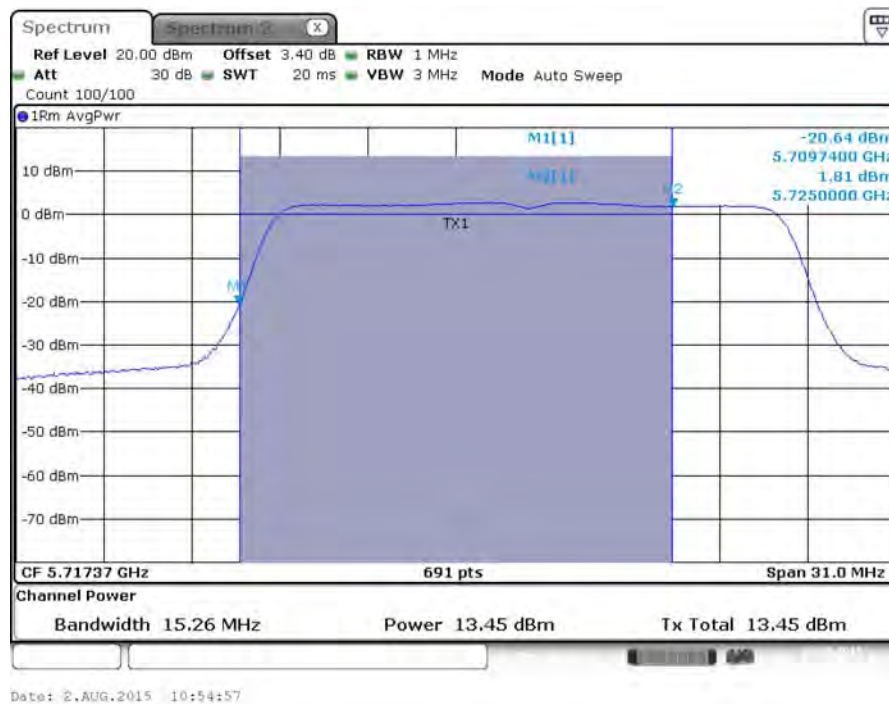


<For STBC Mode>

Straddle Channel: indoor / outdoor use

Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)

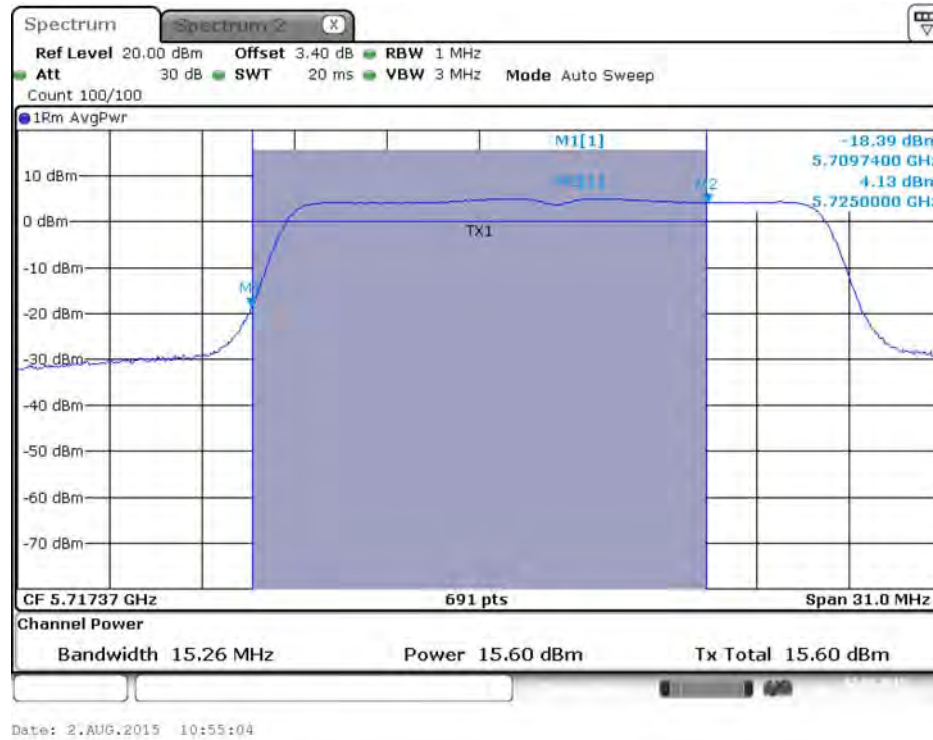
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 2C)



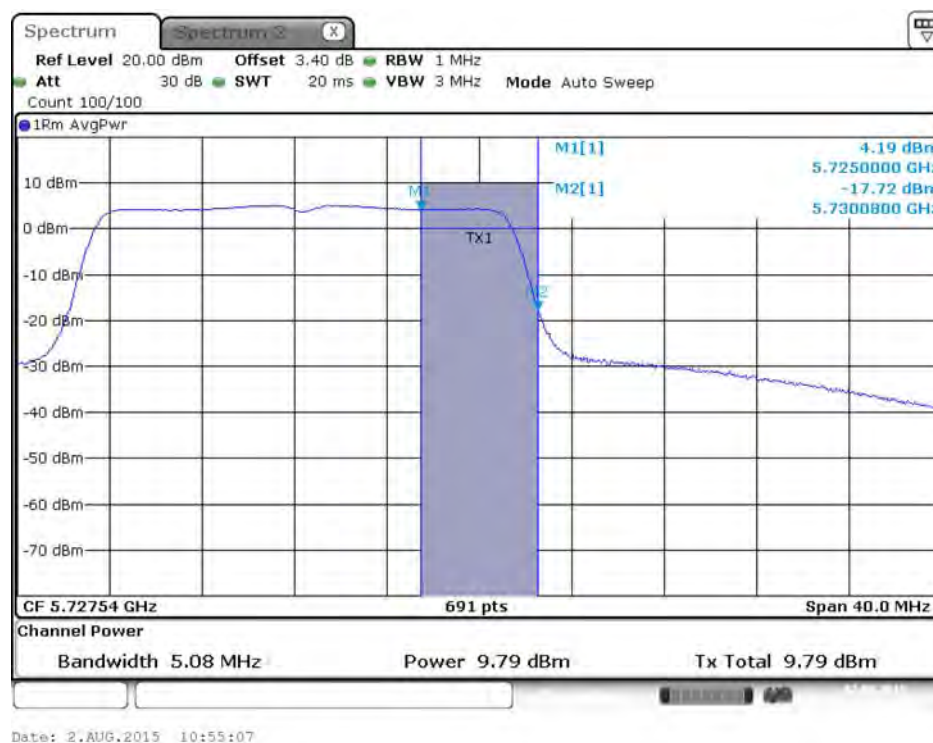
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)



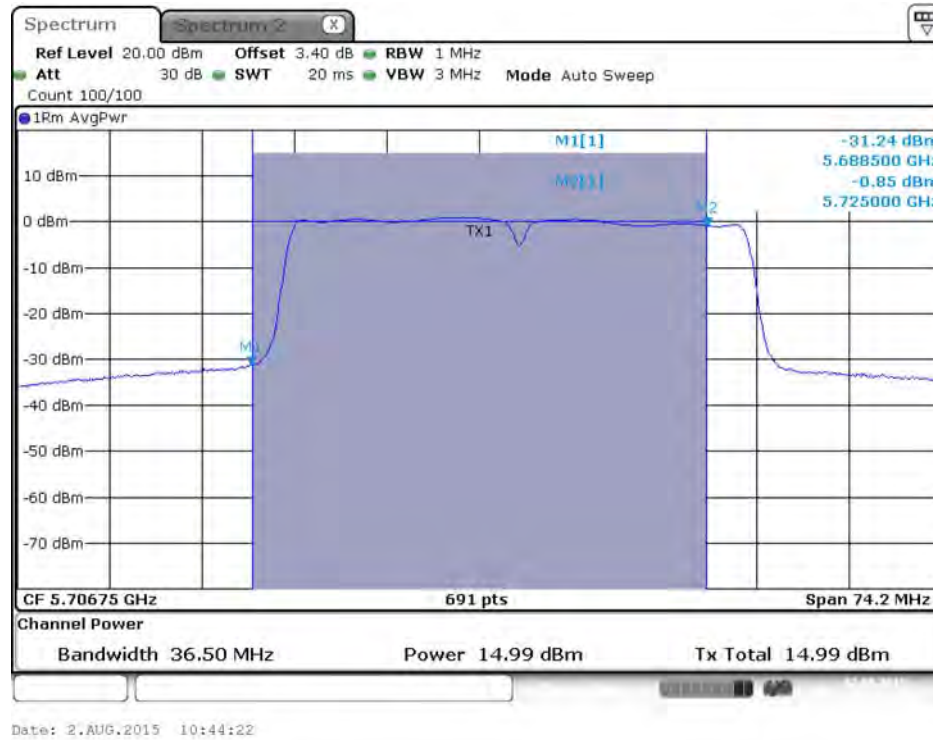
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 2C)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)

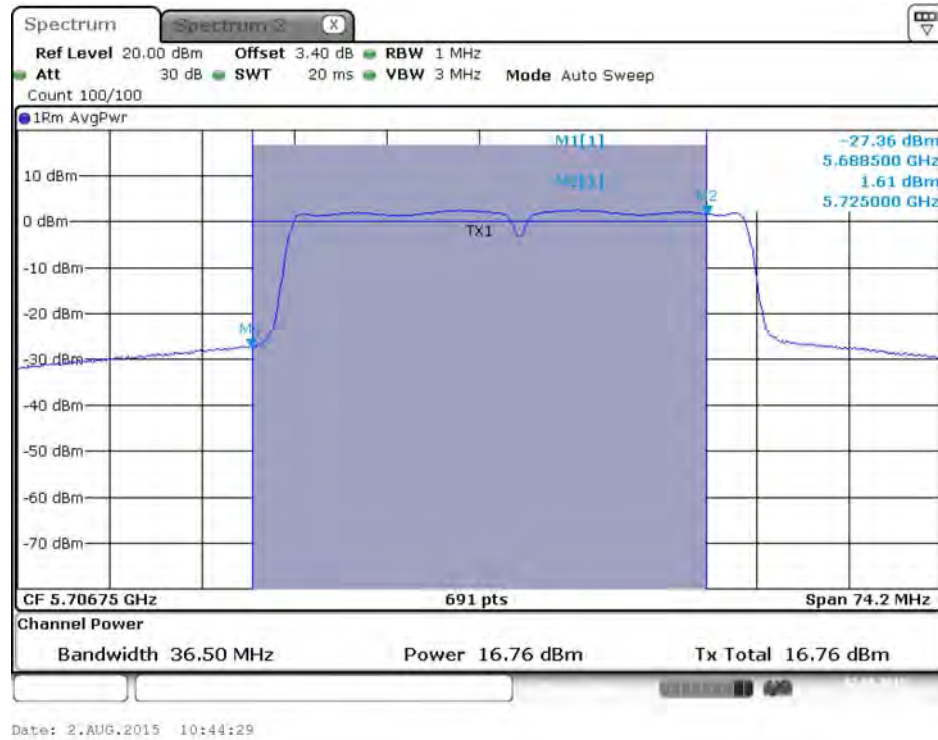


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)





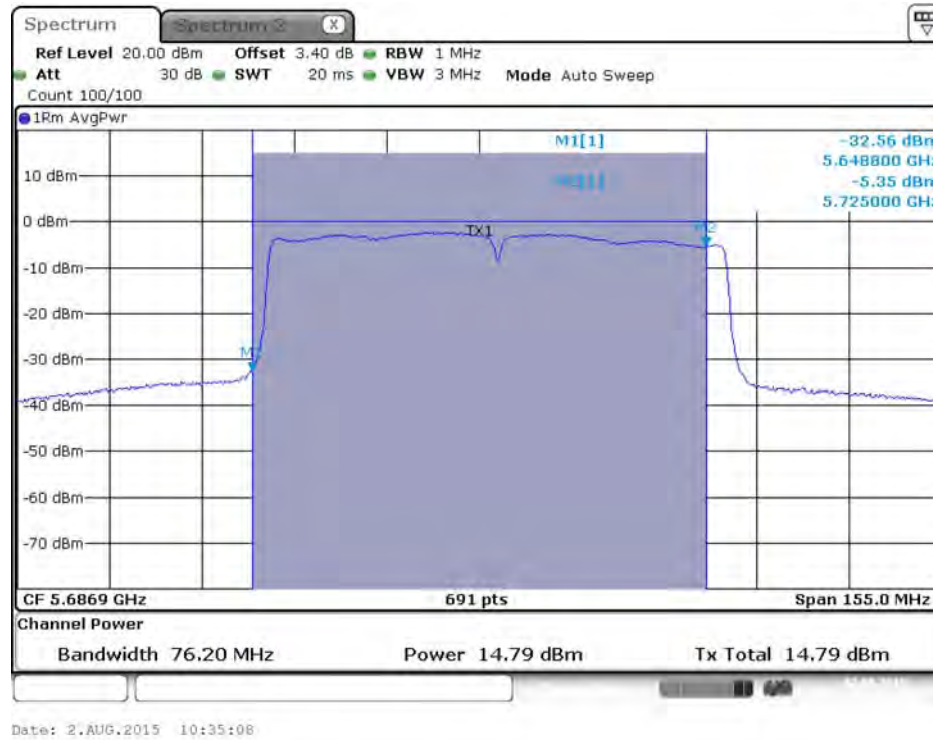
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)



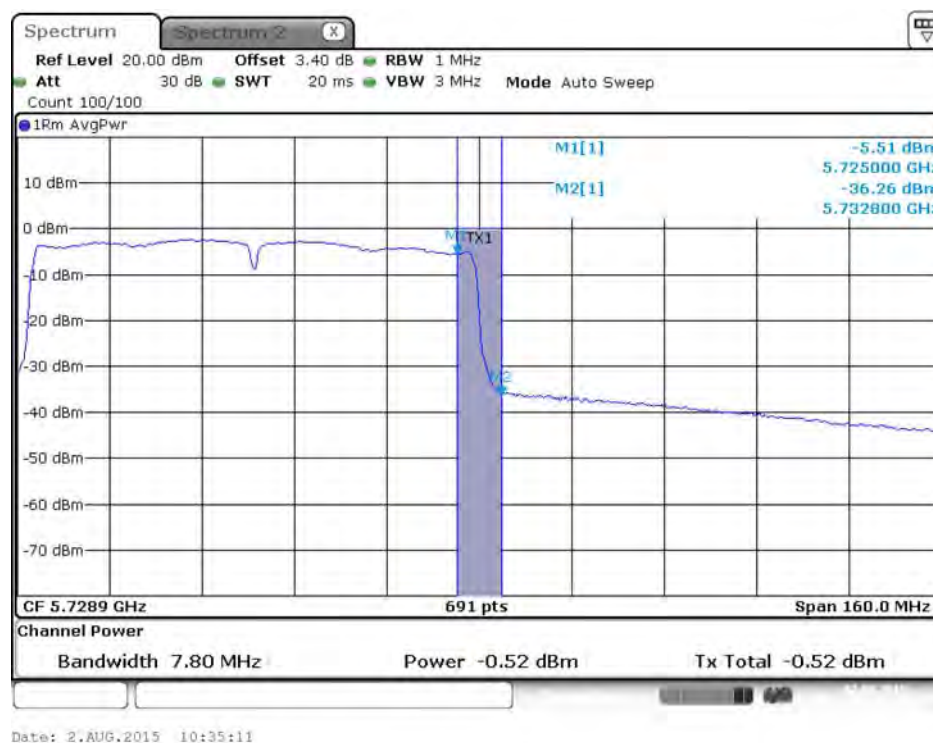
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 3)



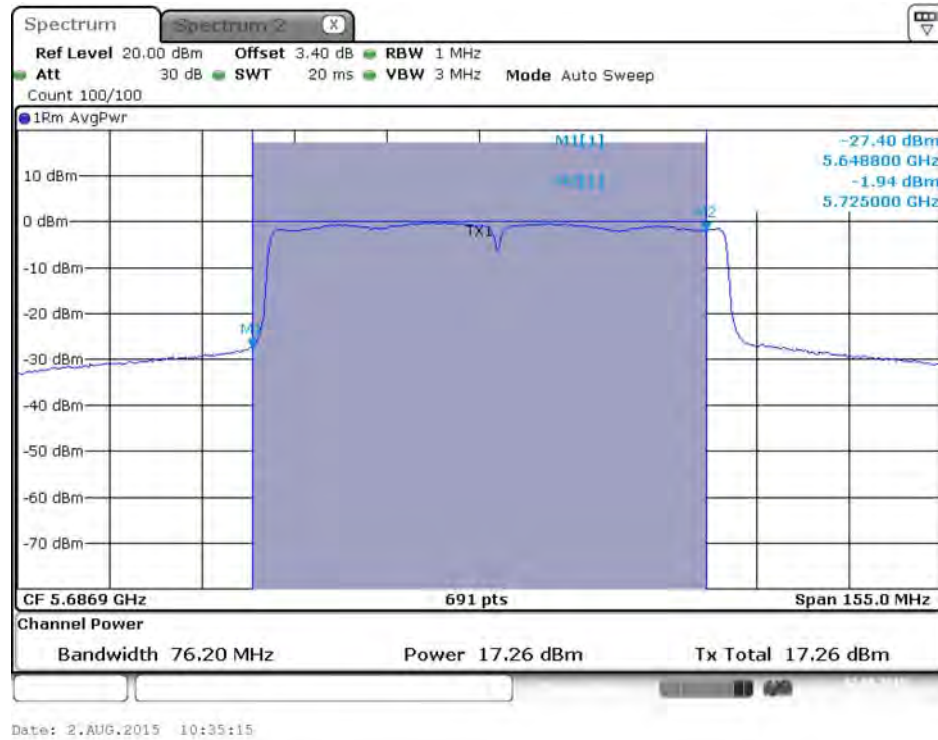
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)



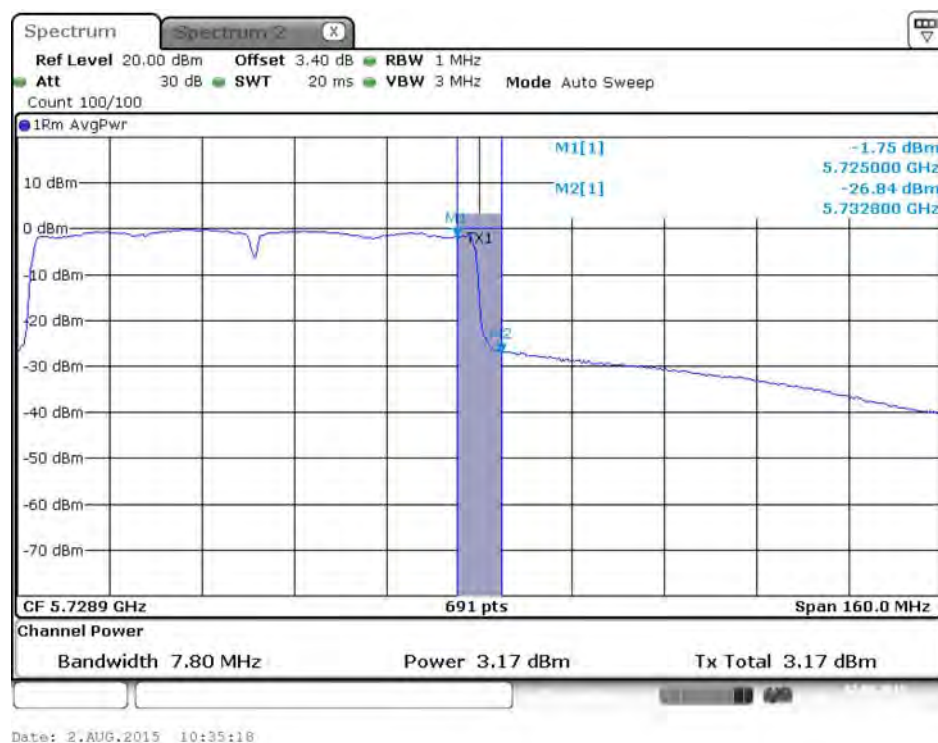
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)

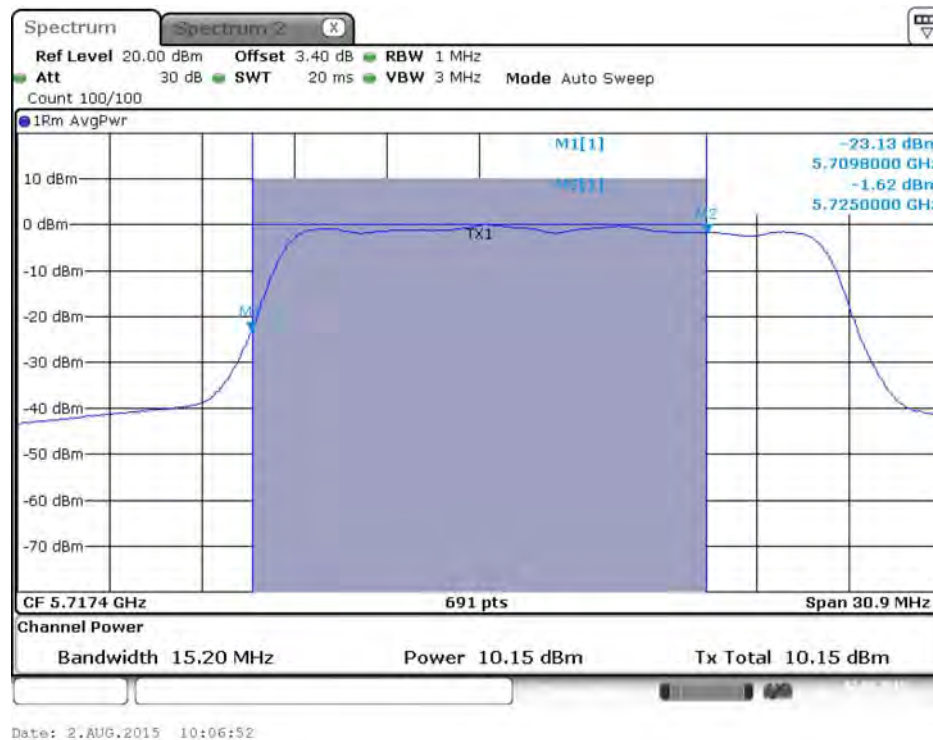


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)



### Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz  
(UNII 2C)

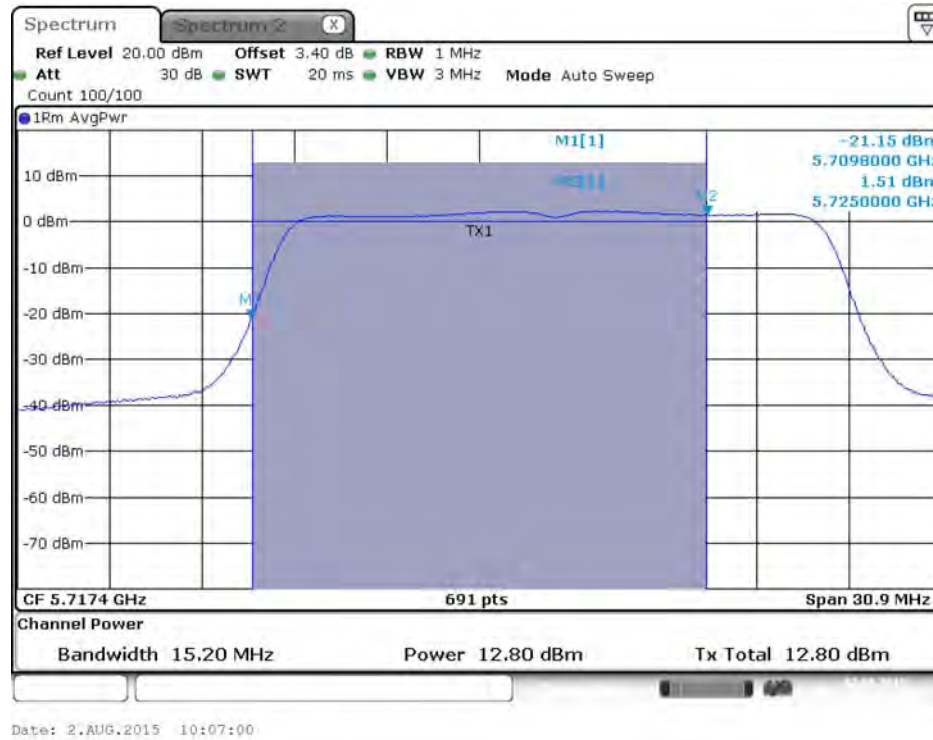


Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz  
(UNII 3)





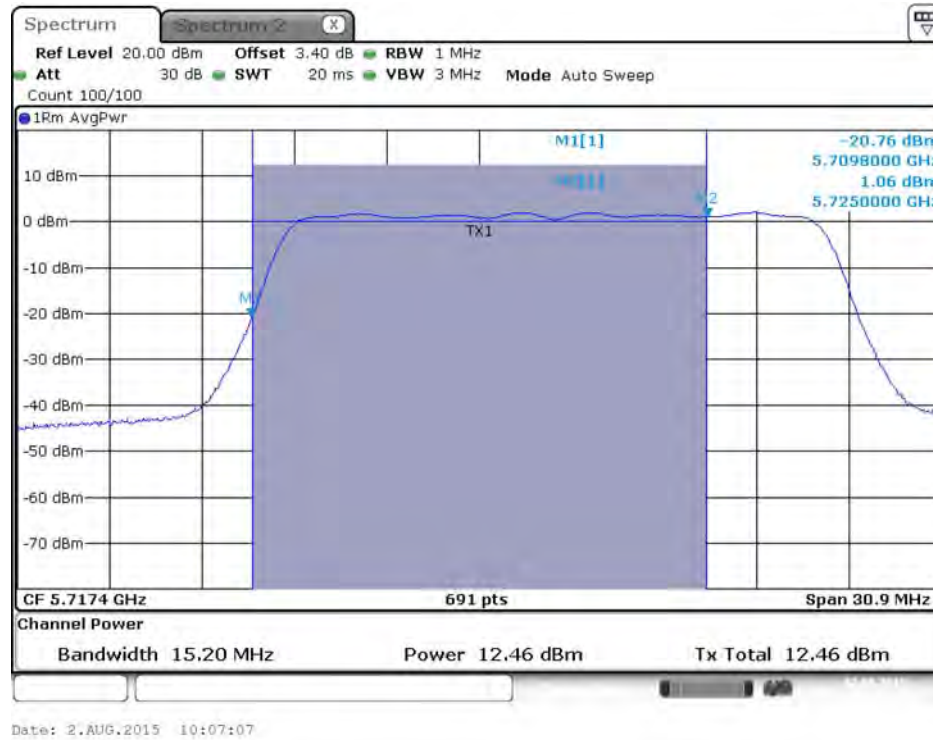
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 2C)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



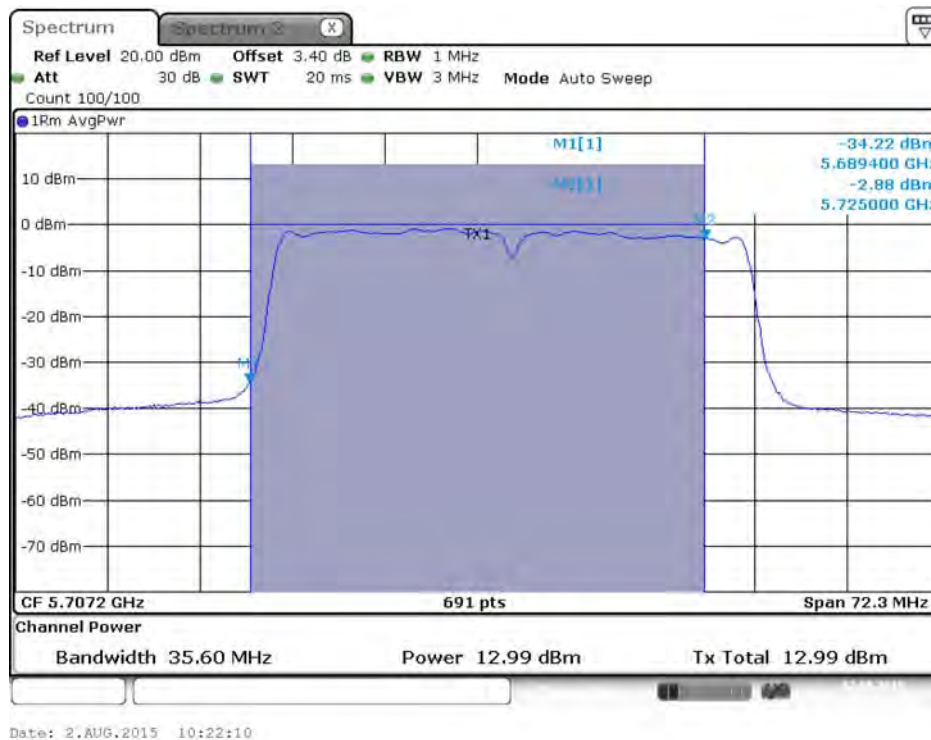
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 2C)



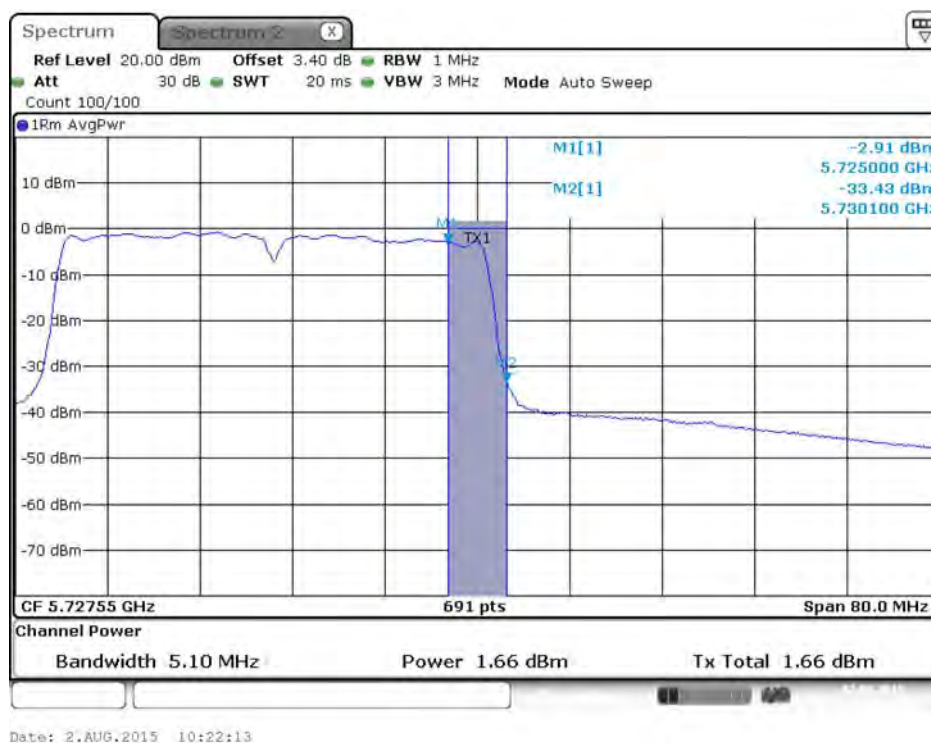
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 3)



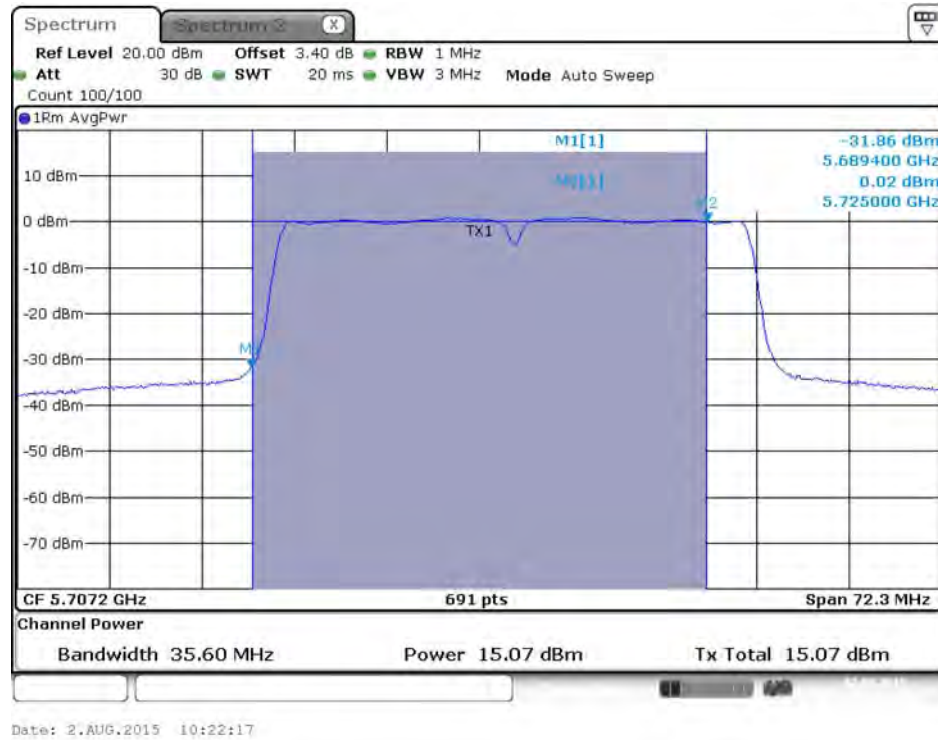
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)

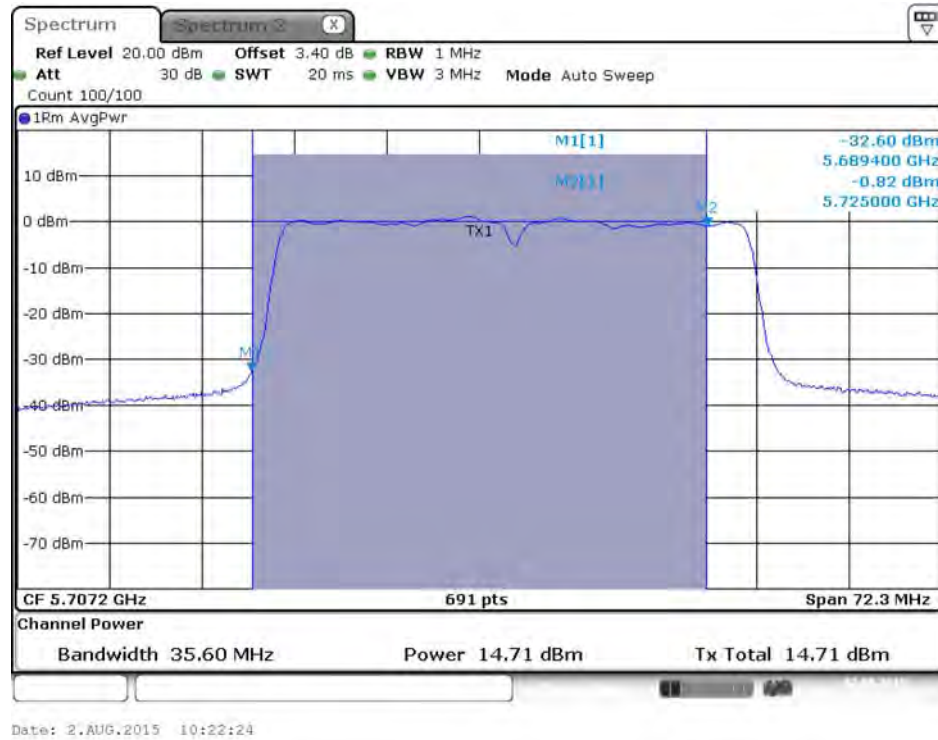


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 3)

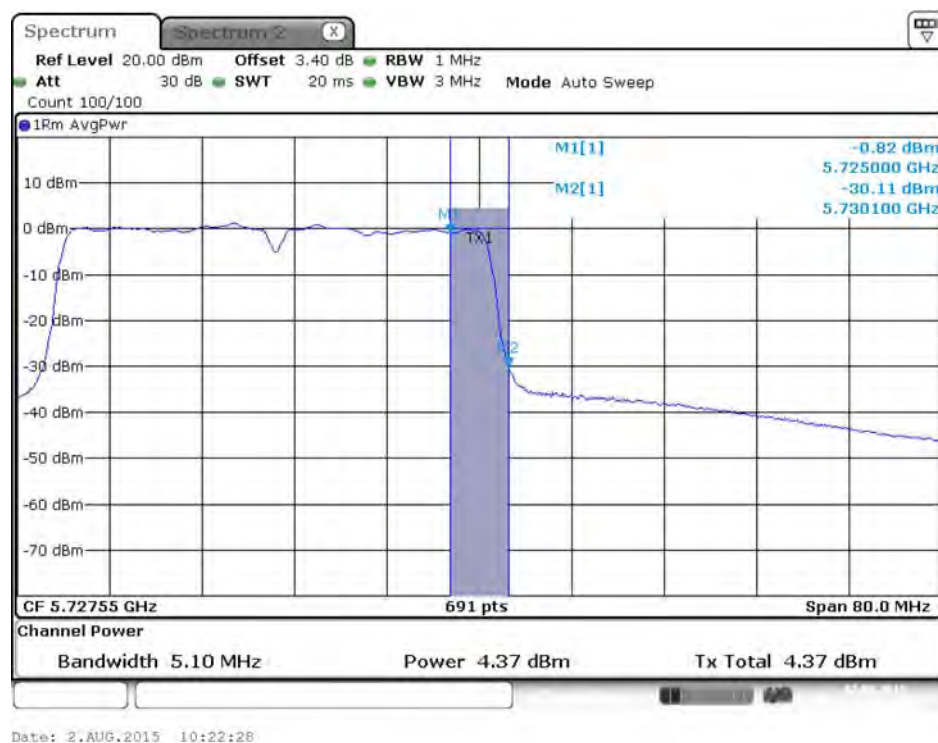




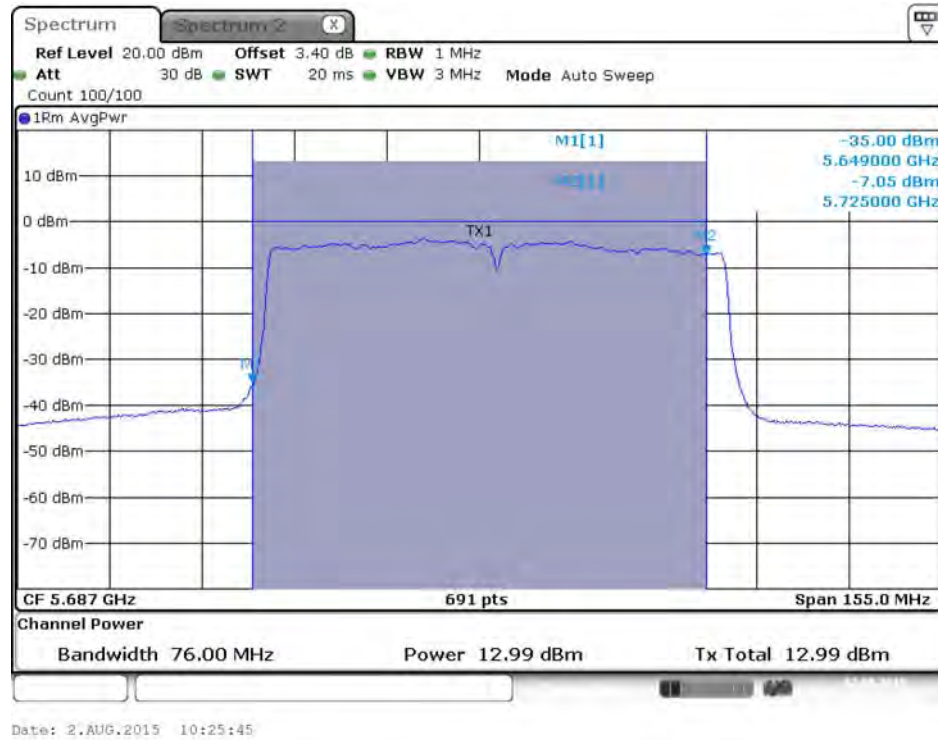
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 2C)



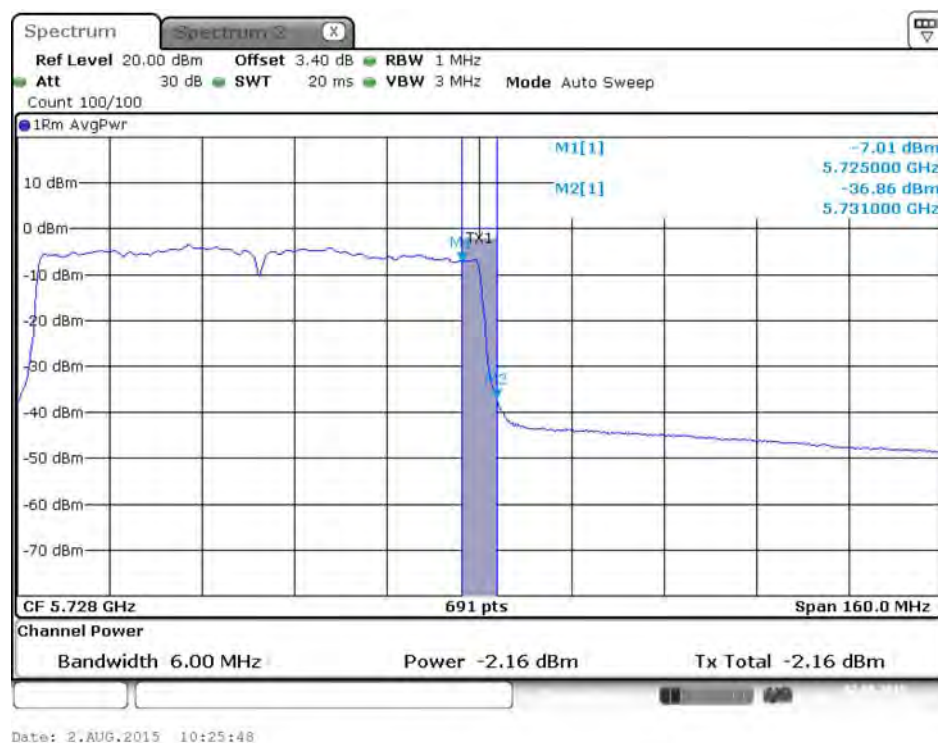
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)





**Spectrum** Spectrum 2 X

**Ref Level** 20.00 dBm **Offset** 3.40 dB **RBW** 1 MHz  
**Att** 30 dB **SWT** 20 ms **VBW** 3 MHz **Mode** Auto Sweep  
**Count** 100/100

**iRm AvgPwr**

CF 5.687 GHz 691 pts Span 155.0 MHz

**Channel Power**

**Bandwidth** 76.00 MHz **Power** 15.13 dBm **Tx Total** 15.13 dBm

Date: 2.AUG.2015 10:25:52

**Spectrum** **Spectrum 2** **X**

**Ref Level** 20.00 dBm **Offset** 3.40 dB **RBW** 1 MHz  
**Att** 30 dB **SWT** 20 ms **VBW** 3 MHz **Mode** Auto Sweep

**Count** 100/100

**1Rm AvgPwr**

**CF** 5.728 GHz **691 pts** **Span** 160.0 MHz

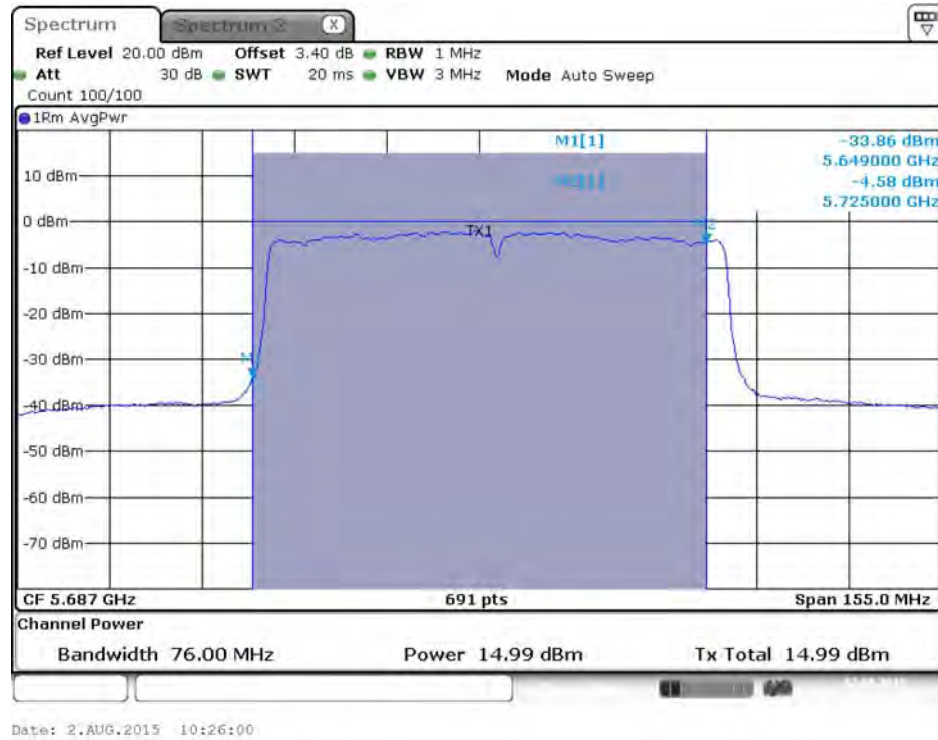
**Channel Power**

**Bandwidth** 6.00 MHz **Power** 1.03 dBm **Tx Total** 1.03 dBm

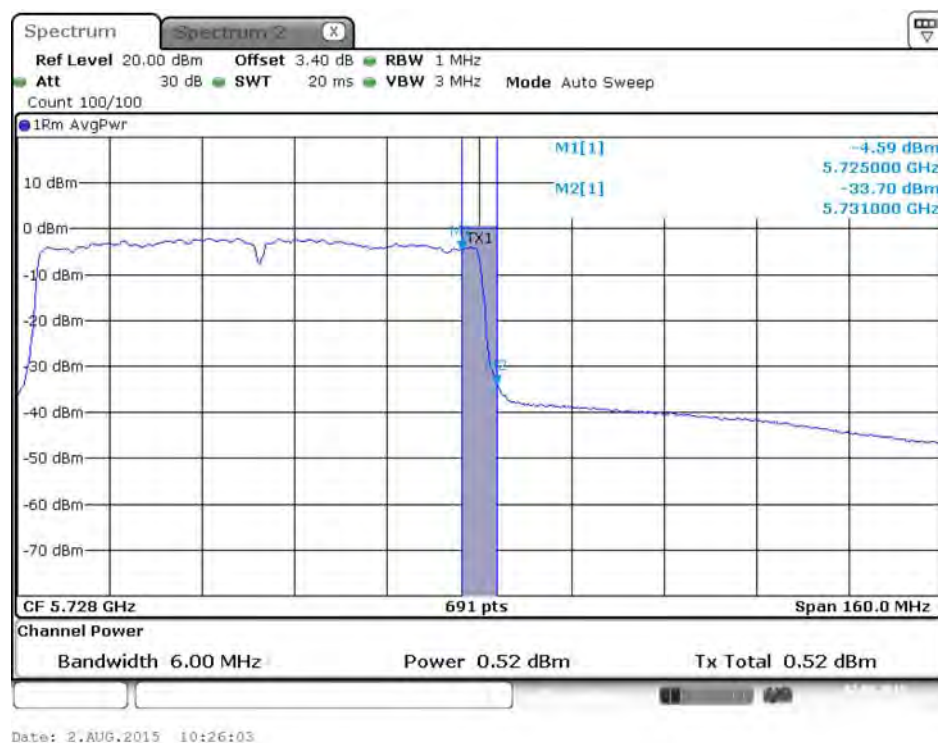
**MI[1]** -4.08 dBm  
**M2[1]** 5.725000 GHz  
**M2[1]** -32.85 dBm  
**M2[1]** 5.731000 GHz

**Tx1**

### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 2C)



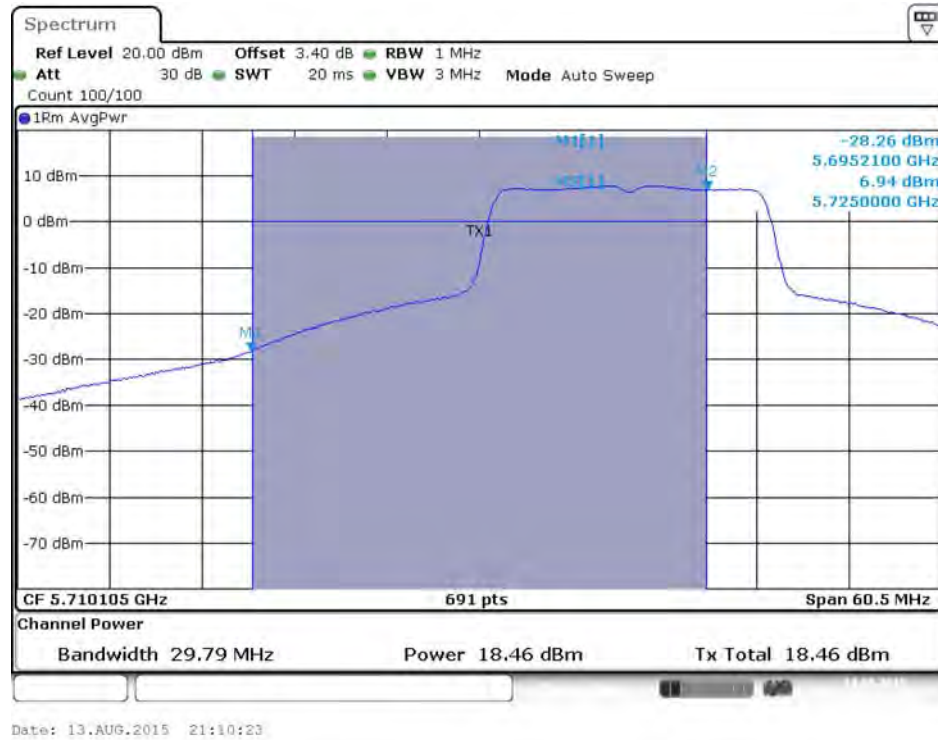
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 3)



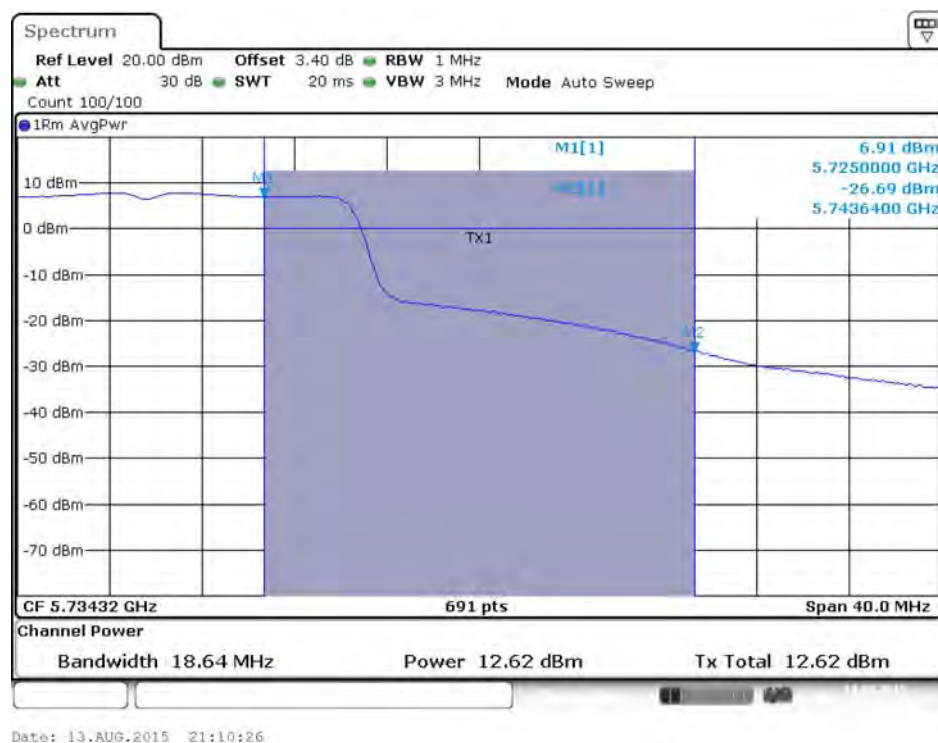


### Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

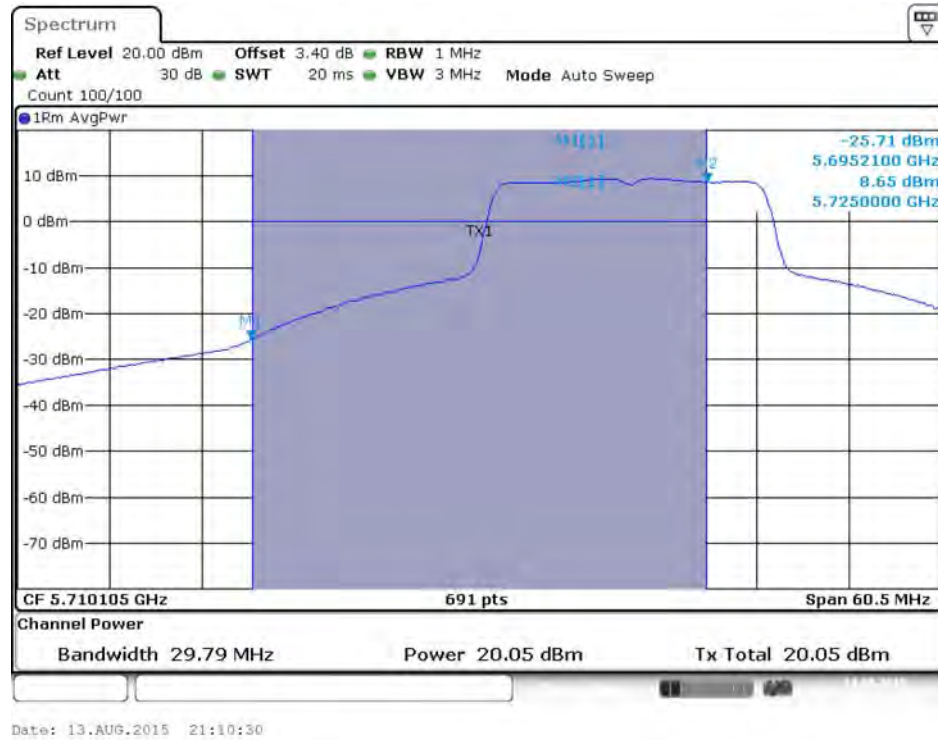
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz  
(UNII 2C)



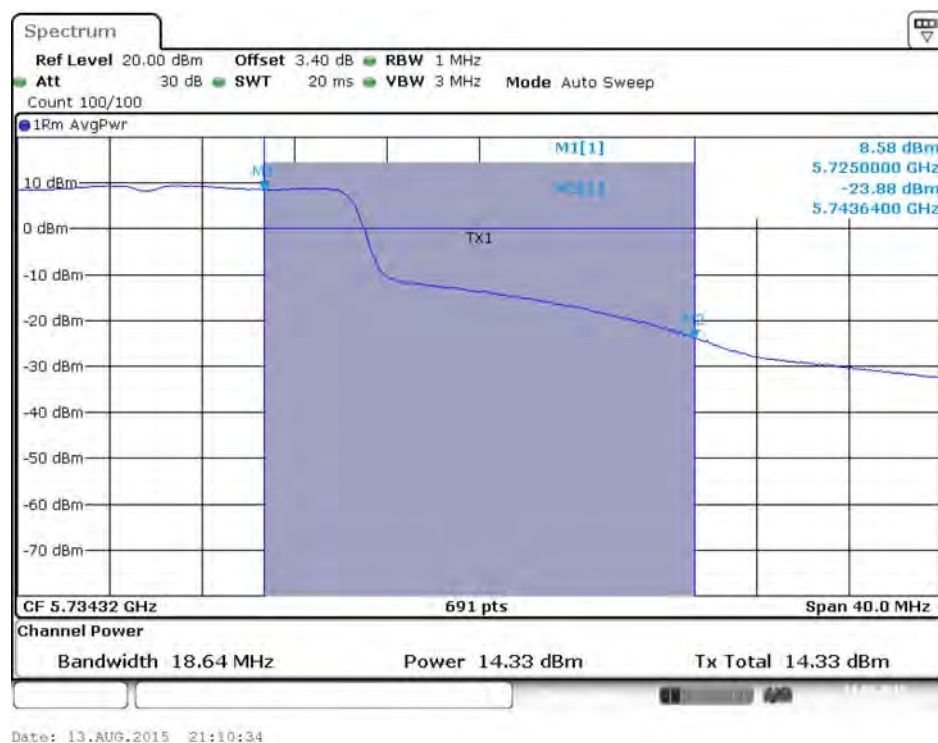
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz  
(UNII 3)



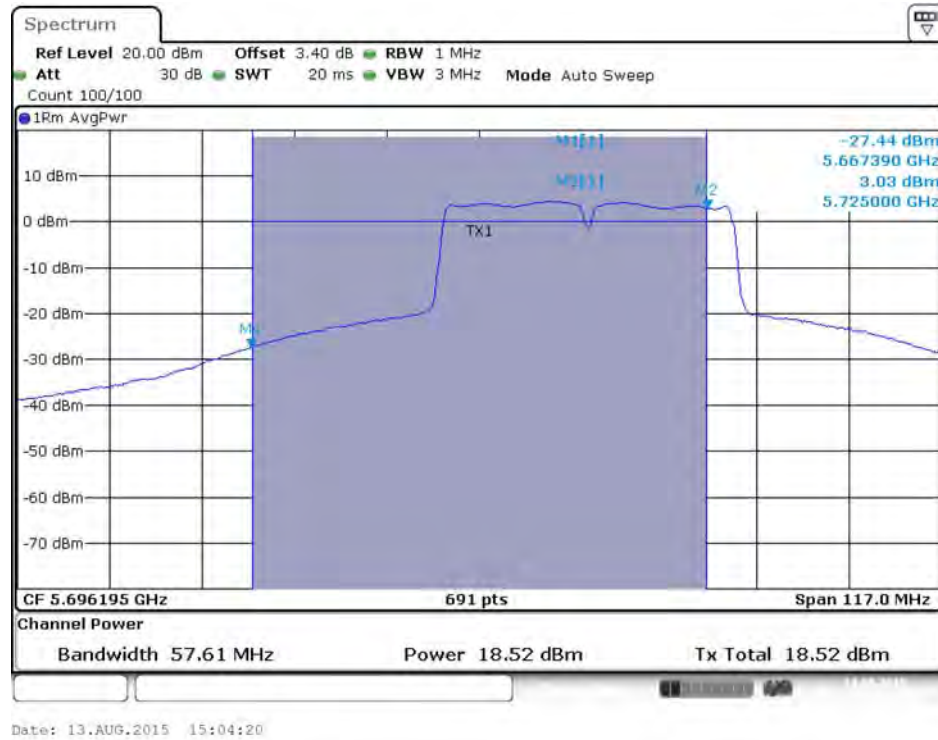
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 2C)



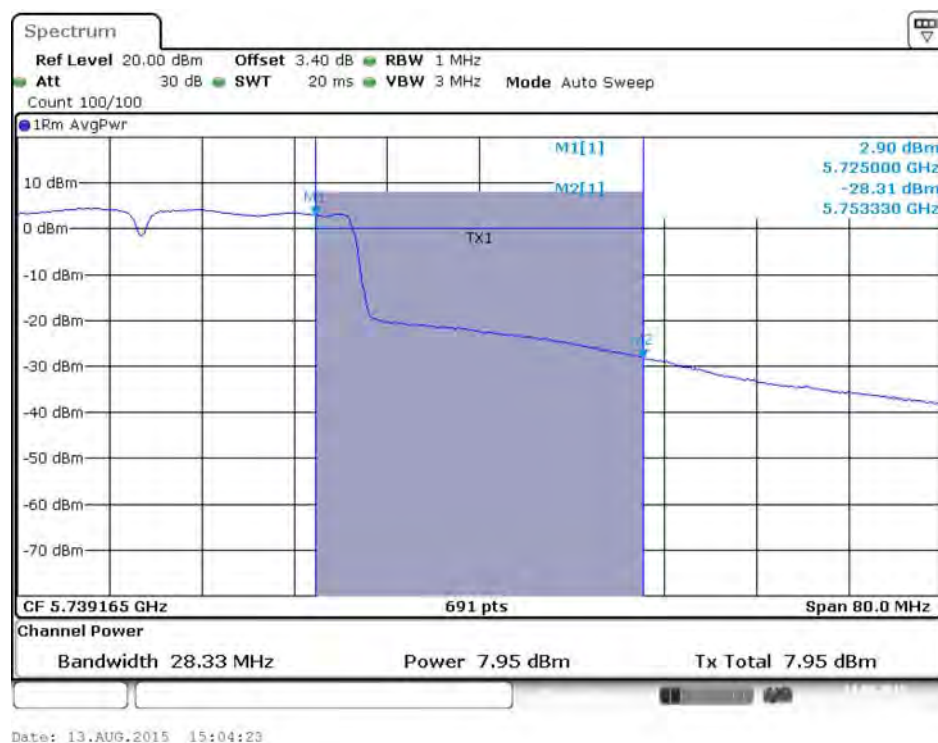
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)





**Spectrum**

Ref Level 20.00 dBm Offset 3.40 dB RBW 1 MHz  
Att 30 dB SWT 20 ms VBW 3 MHz Mode Auto Sweep  
Count 100/100

1Rm AvgPwr

10 dBm  
0 dBm  
-10 dBm  
-20 dBm  
-30 dBm  
-40 dBm  
-50 dBm  
-60 dBm  
-70 dBm

CF 5.696195 GHz 691 pts Span 117.0 MHz

Channel Power

Bandwidth 57.61 MHz Power 20.04 dBm Tx Total 20.04 dBm

~24.41 dBm  
5.667390 GHz  
5.07 dBm  
5.725000 GHz

TX1

M1 M2 M3

Date: 13.AUG.2015 15:04:27

**Spectrum**

Ref Level 20.00 dBm Offset 3.40 dB RBW 1 MHz  
Att 30 dB SWT 20 ms VBW 3 MHz Mode Auto Sweep  
Count 100/100

1Rm AvgPwr

10 dBm  
0 dBm  
-10 dBm  
-20 dBm  
-30 dBm  
-40 dBm  
-50 dBm  
-60 dBm  
-70 dBm

CF 5.739165 GHz 691 pts Span 80.0 MHz

Channel Power

Bandwidth 28.33 MHz Power 10.07 dBm Tx Total 10.07 dBm

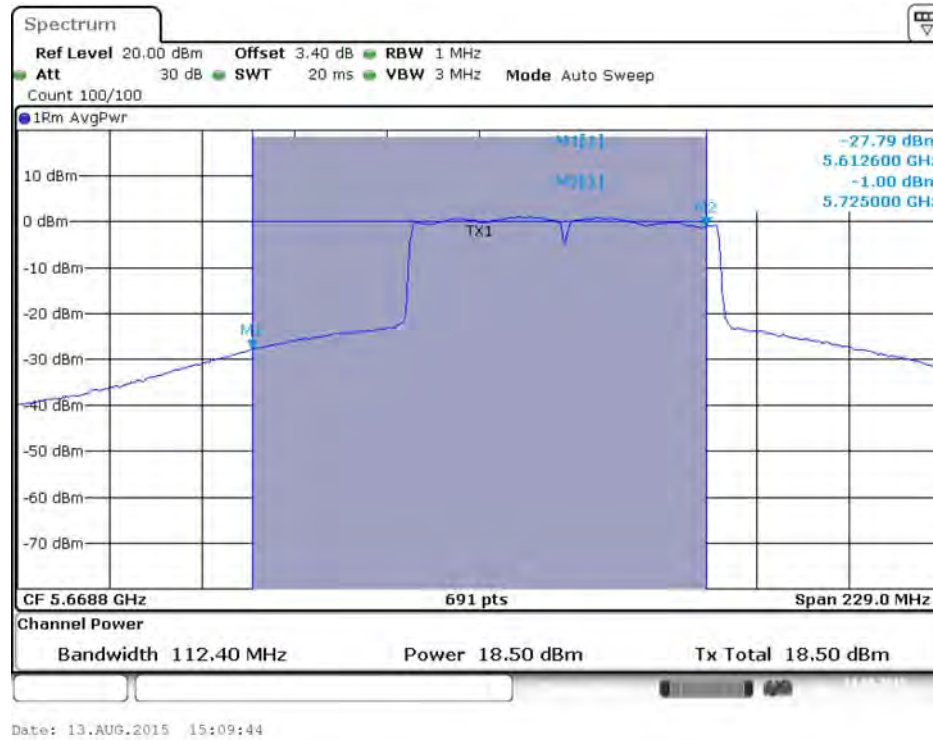
5.02 dBm  
5.725000 GHz  
-24.38 dBm  
5.753330 GHz

MI[1]  
MC[1]  
TX1  
MC

Date: 13.AUG.2015 15:04:31



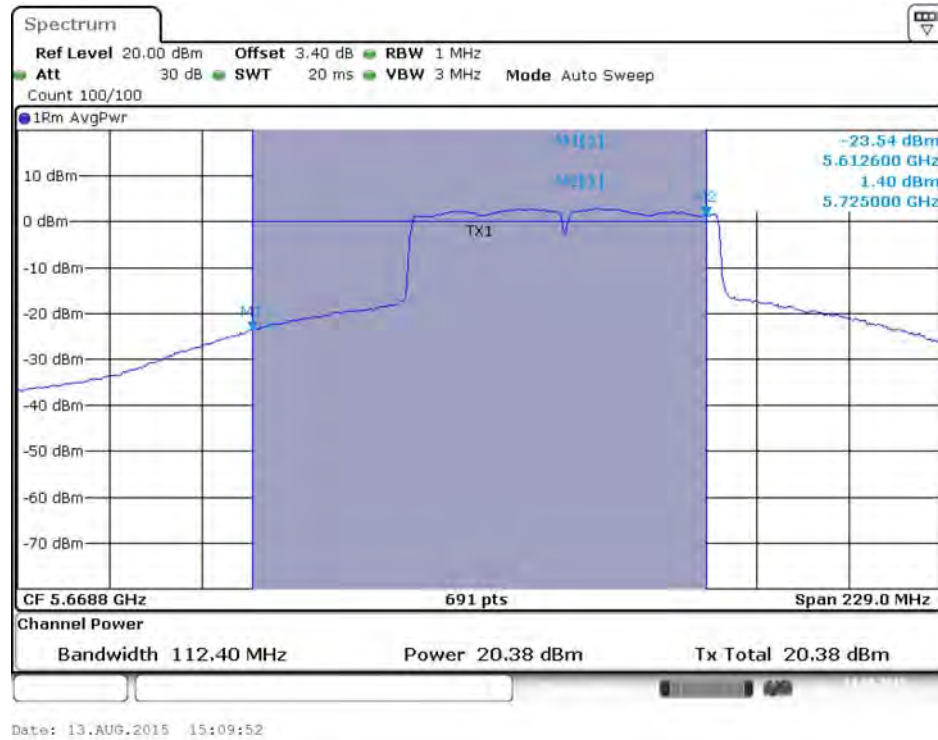
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)



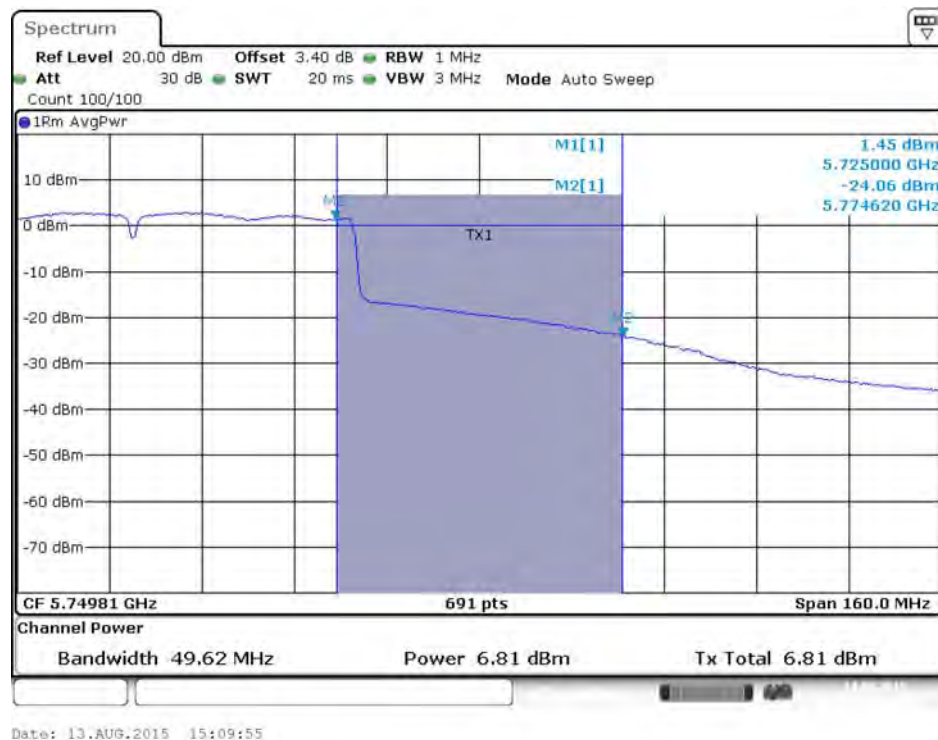
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)

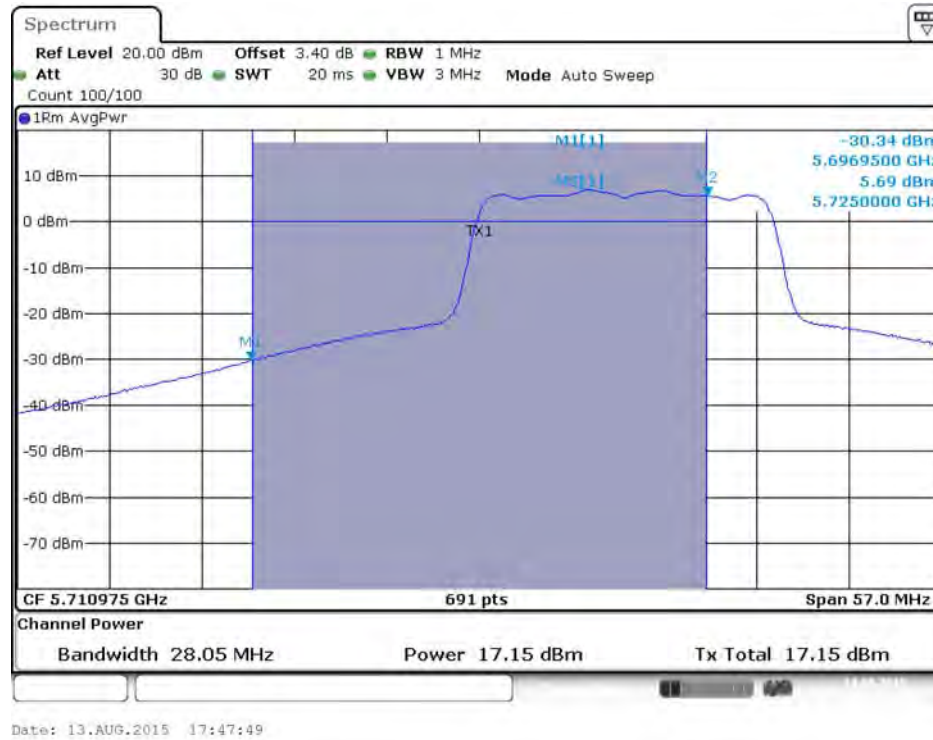


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)

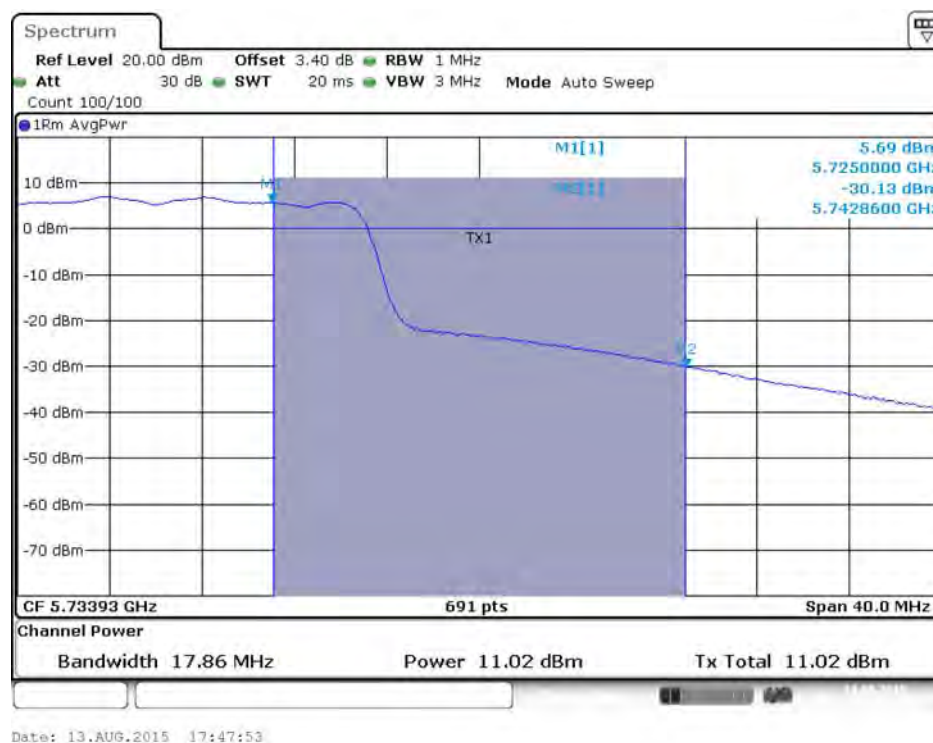


### Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

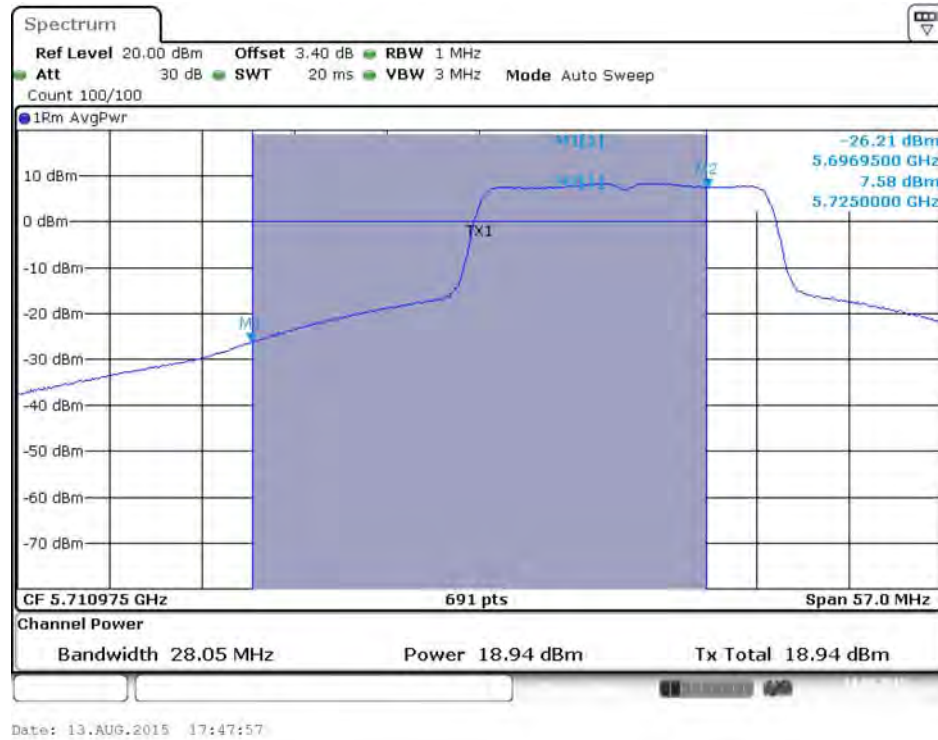
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 2C)



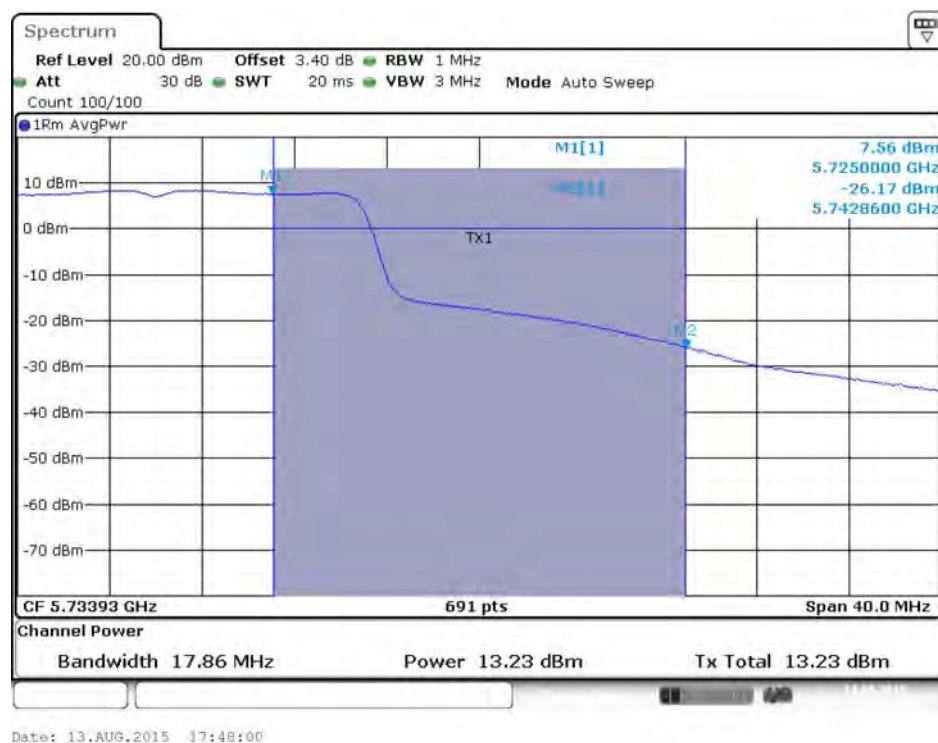
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 2C)

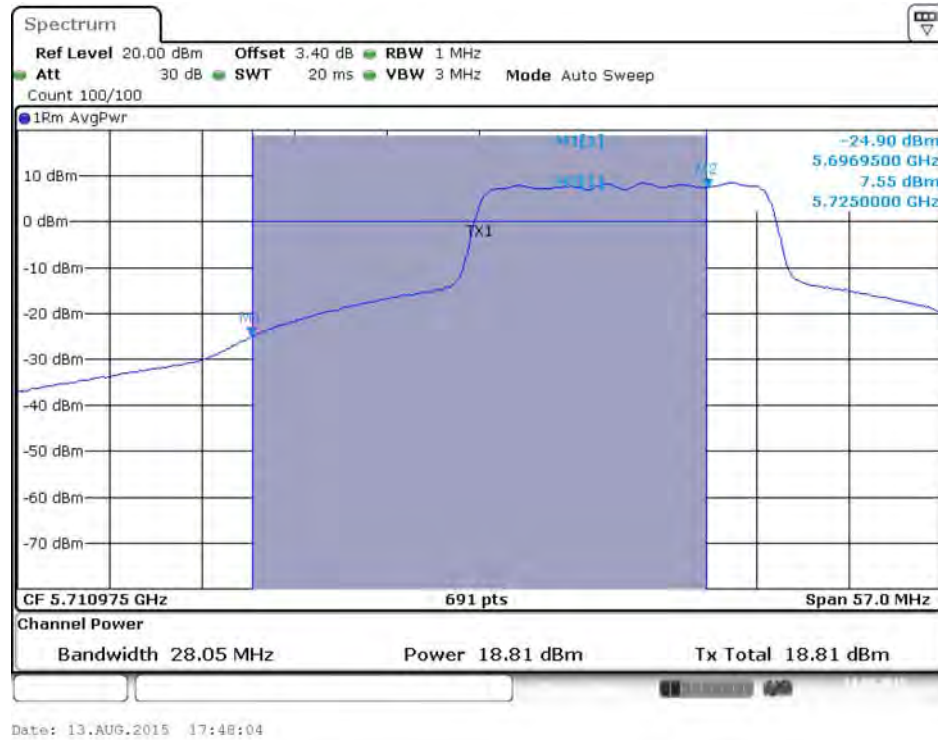


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)

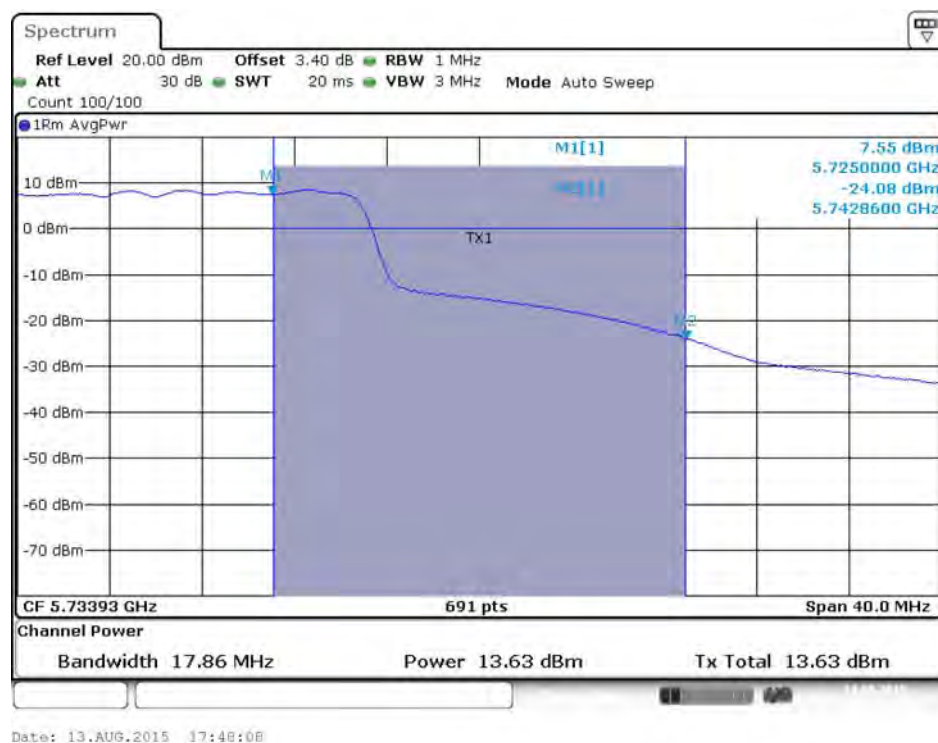




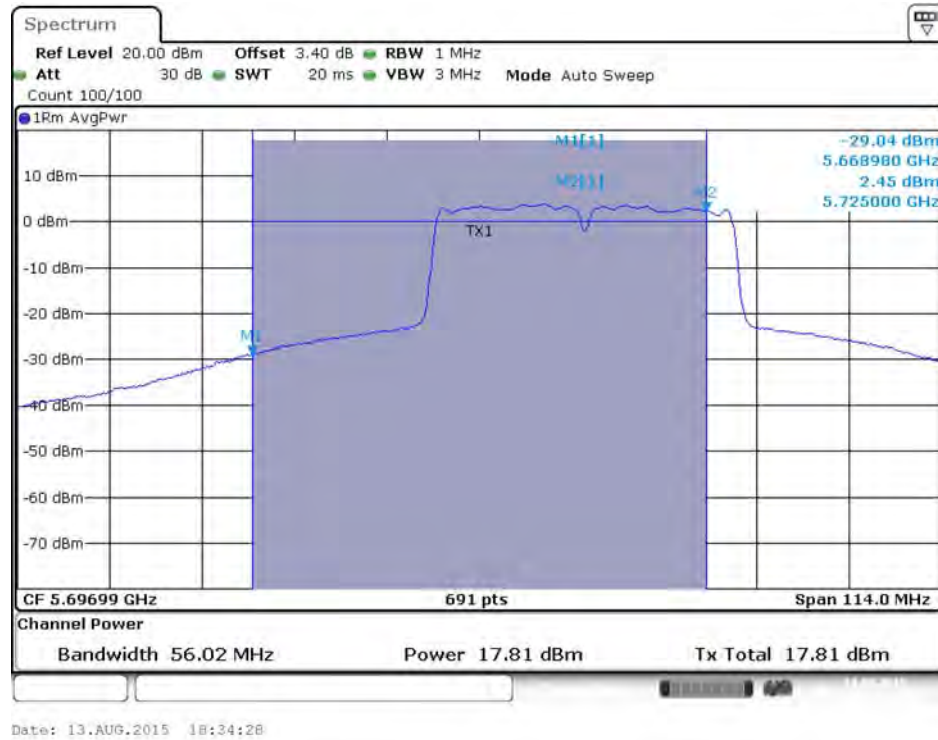
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 2C)



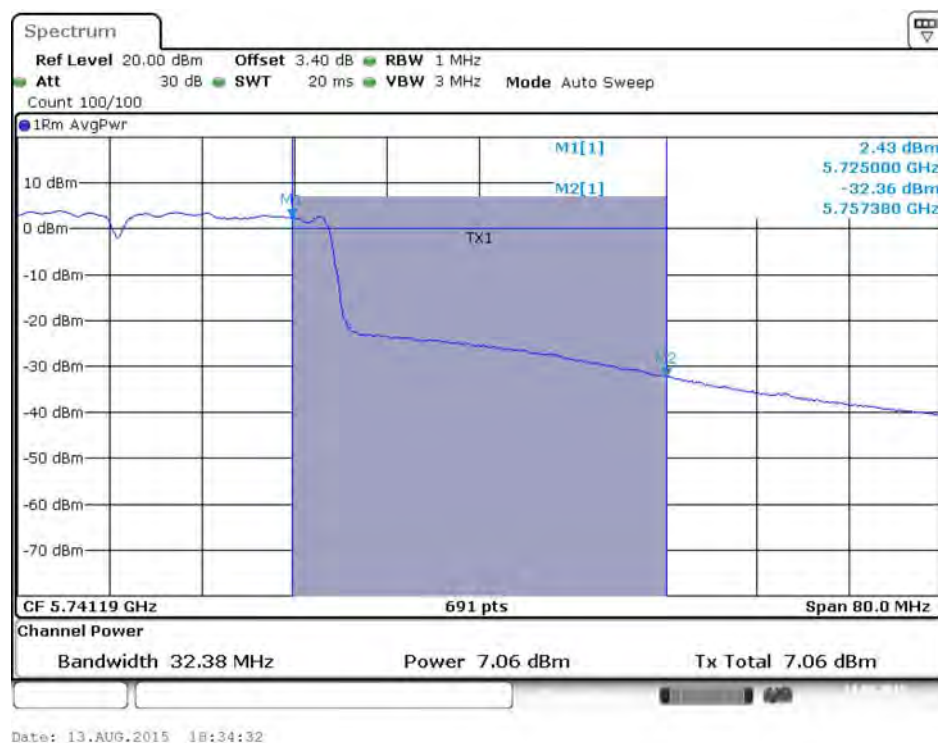
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 3)



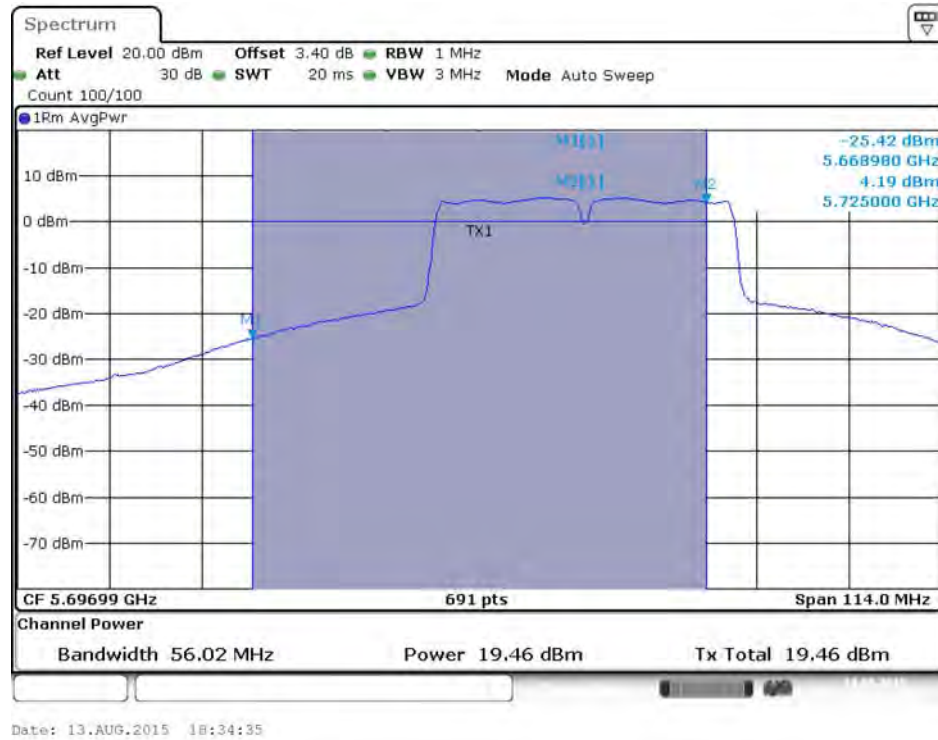
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



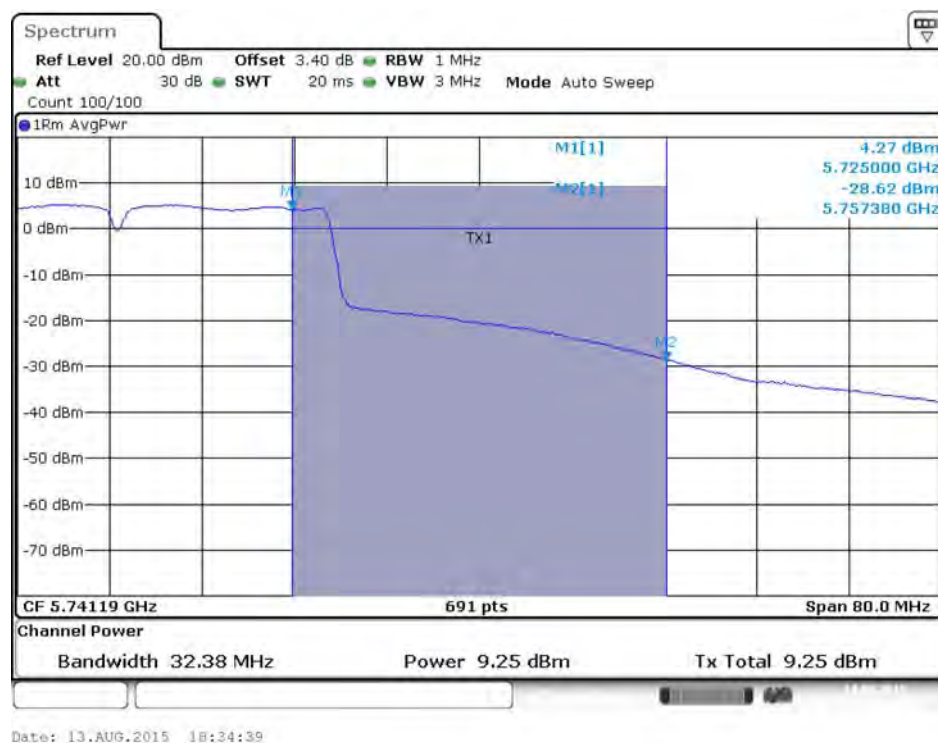
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)



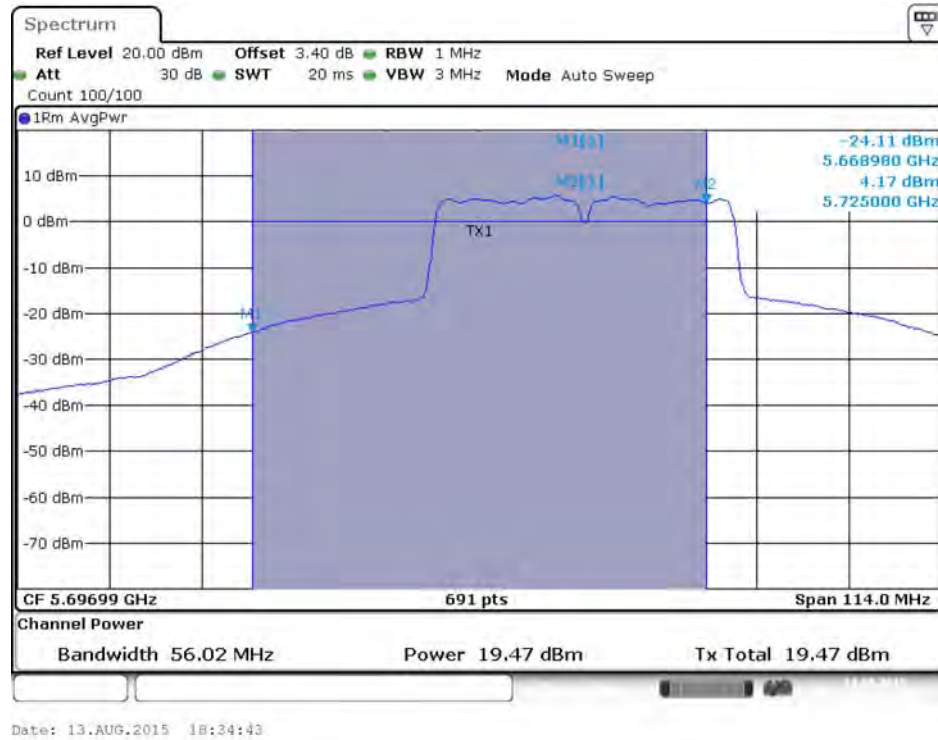
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)



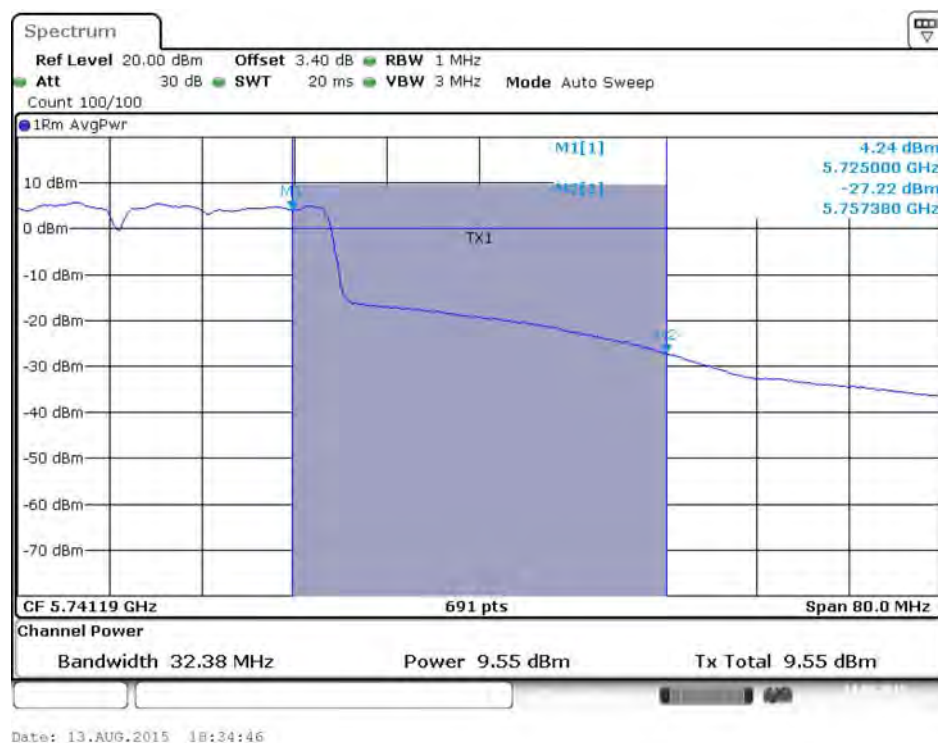
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 2C)

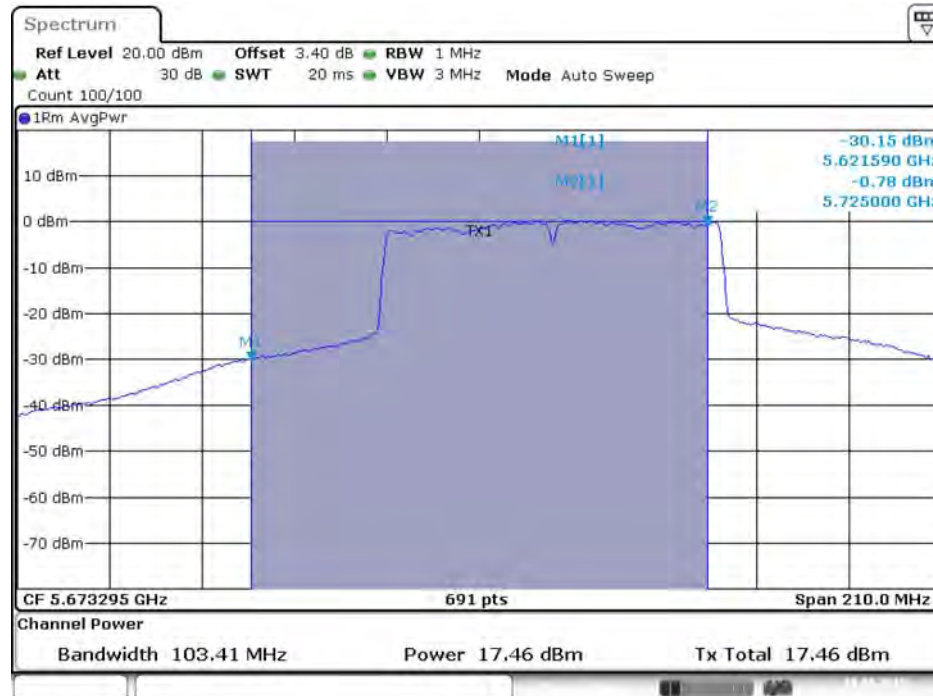


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 3)



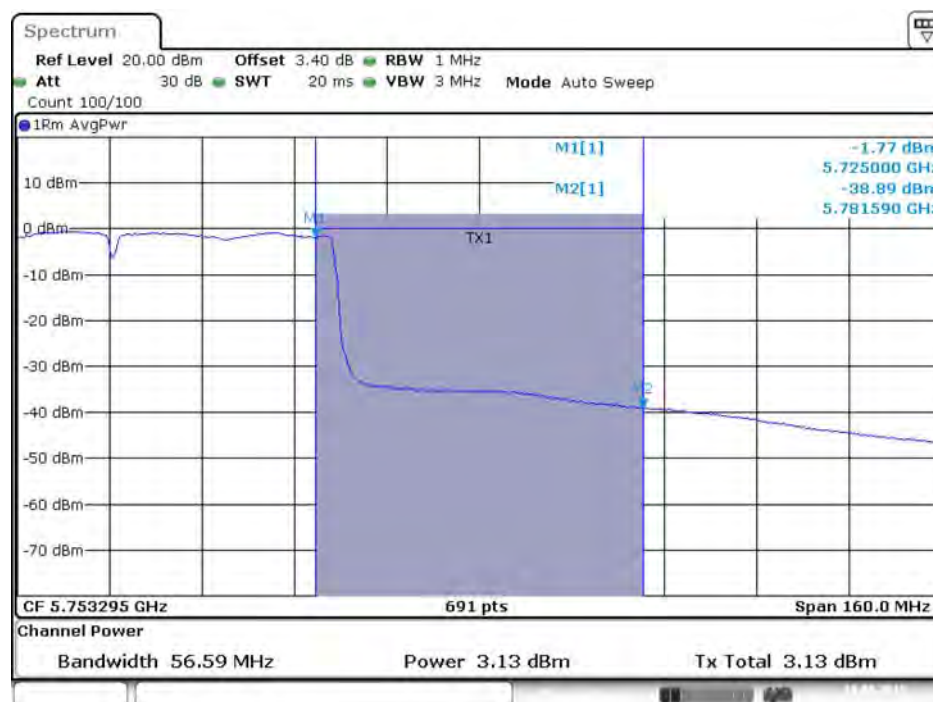


### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)



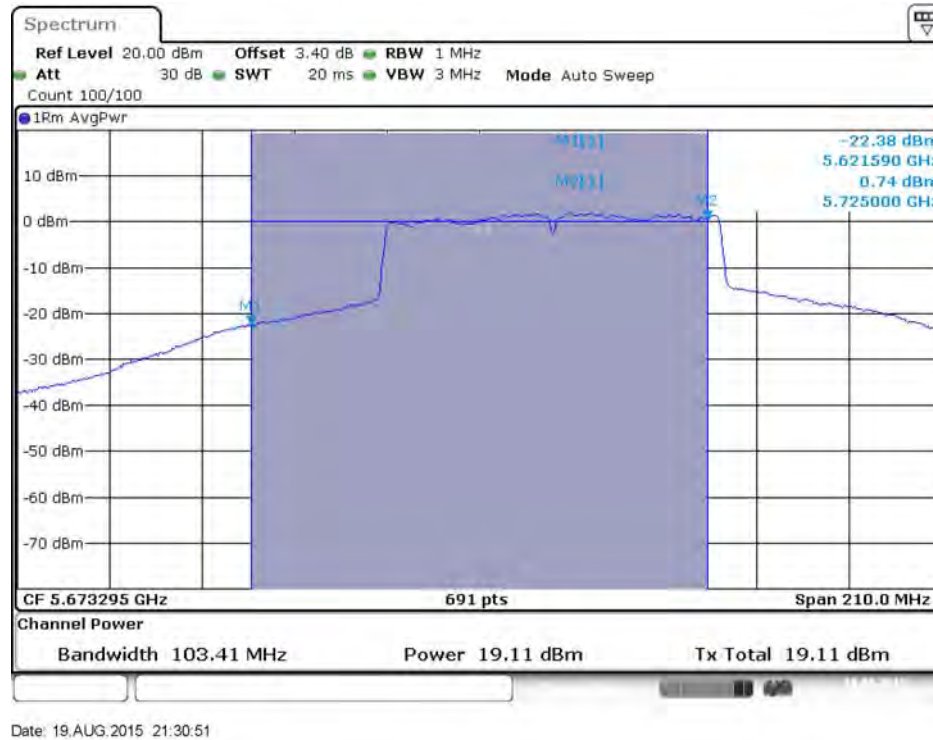
Date: 19.AUG.2015 21:30:10

### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)



Date: 19.AUG.2015 21:40:09

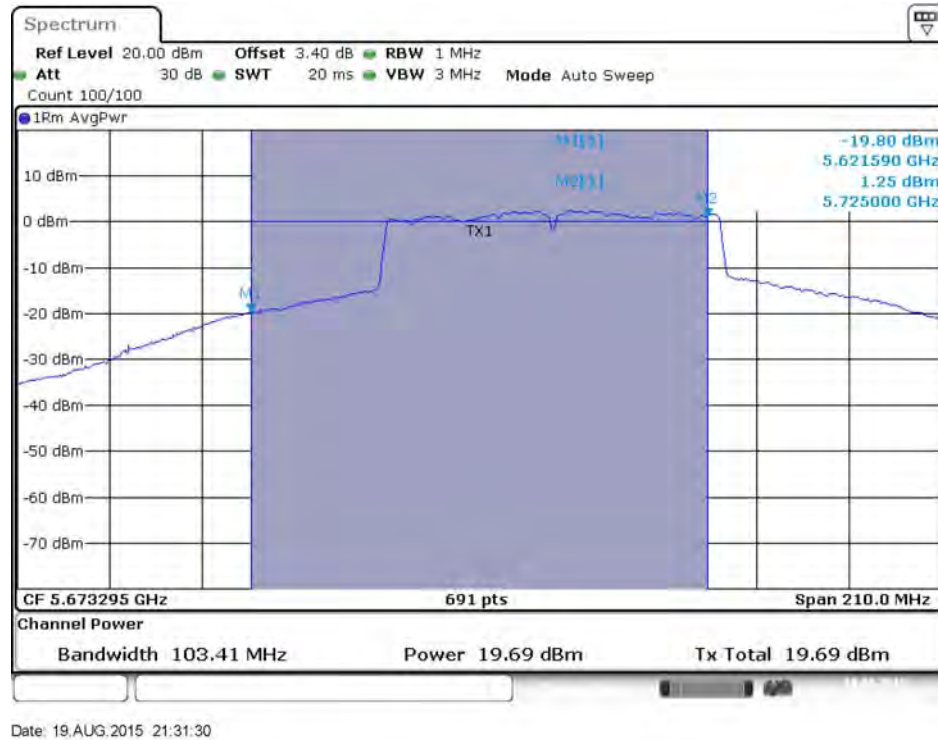
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)



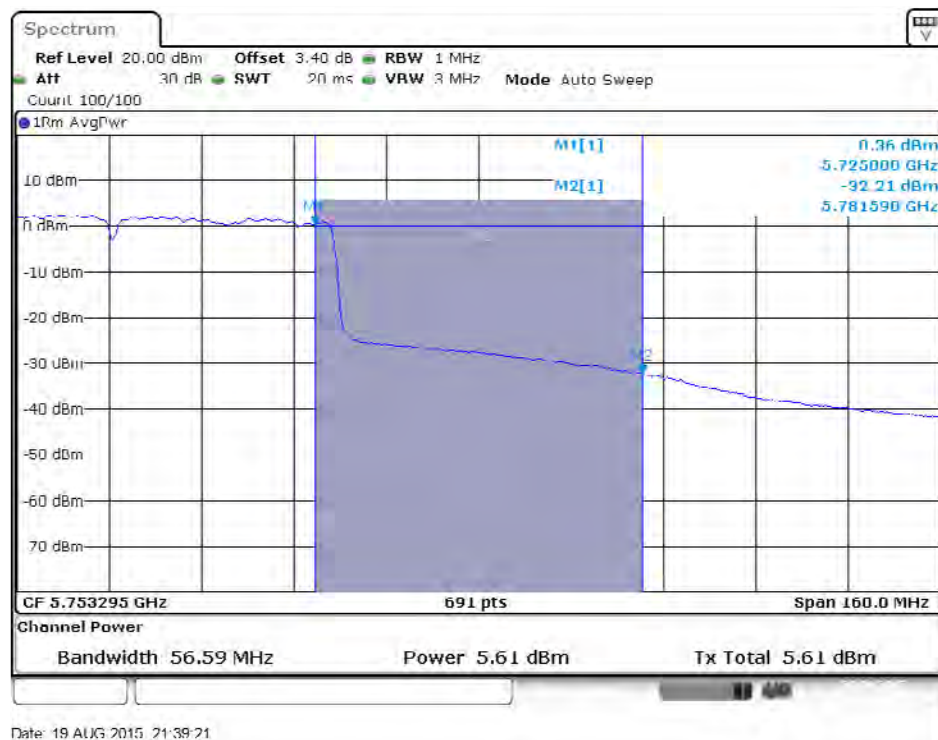
### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 2C)



### Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 3)



## 4.5. Power Spectral Density Measurement

### 4.5.1. Limit

The following table is power spectral density limits and decrease power density limit rule refer to section 4.4.1.

Frequency Band		Limit
<input checked="" type="checkbox"/>	5.15~5.25 GHz	
	Operating Mode	
<input checked="" type="checkbox"/>	Outdoor access point	17 dBm/MHz
<input checked="" type="checkbox"/>	Indoor access point	17 dBm/MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm/MHz
<input type="checkbox"/>	Mobile and portable client devices	11 dBm/MHz
<input checked="" type="checkbox"/>	5.25-5.35 GHz	11 dBm/MHz
<input checked="" type="checkbox"/>	5.470-5.725 GHz	11 dBm/MHz
<input checked="" type="checkbox"/>	5.725~5.85 GHz	30 dBm/500kHz

### 4.5.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

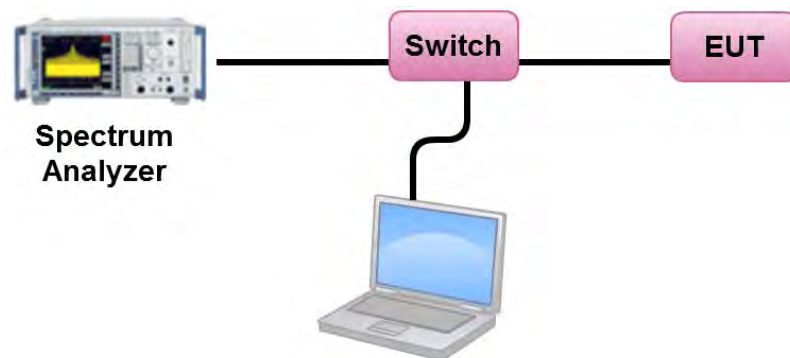
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1000 kHz
VBW	3000 kHz
Detector	RMS
Trace	AVERAGE
Sweep Time	Auto
Trace Average	100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.	



#### 4.5.3. Test Procedures

1. The transmitter output (antenna port) was connected RF switch to the spectrum analyzer.
2. Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD).
3. Multiple antenna systems was performed in accordance KDB662911 D01 v02r01 in-Band Power Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the outputs.
4. When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for the first frequency bin of the summed spectrum. The summed spectrum value for each of the other frequency bins is computed in the same way.
5. For 5.725~5.85 GHz, the measured result of PSD level must add  $10\log(500\text{kHz}/\text{RBW})$  and the final result should  $\leq 30$  dBm.

#### 4.5.4. Test Setup Layout



#### 4.5.5. Test Deviation

There is no deviation with the original standard.

#### 4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 4.5.7. Test Result of Power Spectral Density

<For Non-Beamforming Mode>

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 1TX)		

For indoor use

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	4.82	12.30	Complies
40	5200 MHz	8.42	12.30	Complies
48	5240 MHz	7.03	12.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the B1 limit  $17-(10.70-6)=12.30$ dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	0.43	12.30	Complies
46	5230 MHz	3.70	12.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the B1 limit  $17-(10.70-6)=12.30$ dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-3.02	12.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the B1 limit  $17-(10.70-6)=12.30$ dBm/MHz.

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	7.54	12.30	Complies
40	5200 MHz	11.23	12.30	Complies
48	5240 MHz	9.48	12.30	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.57	12.30	Complies
46	5230 MHz	6.86	12.30	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-0.78	12.30	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30 \text{dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	8.56	10.08	Complies
40	5200 MHz	9.60	10.08	Complies
48	5240 MHz	9.55	10.08	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (12.92 - 6) = 10.08 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.71	10.08	Complies
46	5230 MHz	7.31	10.08	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (12.92 - 6) = 10.08 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-2.15	10.08	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (12.92 - 6) = 10.08 \text{dBm/MHz}.$$



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 1TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	6.35	17.00	Complies
40	5200 MHz	8.58	17.00	Complies
48	5240 MHz	8.65	17.00	Complies

Note: Antenna gain=5.4dBi < 6dBi, so the limit doesn't reduce.

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	0.13	17.00	Complies
46	5230 MHz	5.08	17.00	Complies

Note: Antenna gain=5.4dBi < 6dBi, so the limit doesn't reduce.

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-4.50	17.00	Complies

Note: Antenna gain=5.4dBi < 6dBi, so the limit doesn't reduce.

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	7.54	14.59	Complies
40	5200 MHz	11.23	14.59	Complies
48	5240 MHz	10.20	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.88	14.59	Complies
46	5230 MHz	7.12	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	0.03	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	10.45	12.83	Complies
40	5200 MHz	11.13	12.83	Complies
48	5240 MHz	11.14	12.83	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	5.35	12.83	Complies
46	5230 MHz	8.13	12.83	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}..$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	1.39	12.83	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 1TX)		

For outdoor use

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	0.44	12.30	Complies
40	5200 MHz	0.22	12.30	Complies
48	5240 MHz	0.25	12.30	Complies

Note: Antenna gain=10.70dBi > 6dBi, so the B1 limit  $17-(10.70-6)=12.30$ dBm/MHz.

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-2.40	12.30	Complies
46	5230 MHz	-2.49	12.30	Complies

Note: Antenna gain=10.70dBi > 6dBi, so the B1 limit  $17-(10.70-6)=12.30$ dBm/MHz.

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-5.36	12.30	Complies

Note: Antenna gain=10.70dBi > 6dBi, so the B1 limit  $17-(10.70-6)=12.30$ dBm/MHz.



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	0.21	12.30	Complies
40	5200 MHz	0.22	12.30	Complies
48	5240 MHz	0.12	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-2.74	12.30	Complies
46	5230 MHz	-2.87	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-5.67	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30 \text{dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	0.23	10.08	Complies
40	5200 MHz	0.23	10.08	Complies
48	5240 MHz	0.49	10.08	Complies

Note:  $Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}$ , so the B1 limit  $17 - (12.92 - 6) = 10.08\text{dBm/MHz}$ .

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-2.93	10.08	Complies
46	5230 MHz	-2.89	10.08	Complies

Note:  $Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}$ , so the B1 limit  $17 - (12.92 - 6) = 10.08\text{dBm/MHz}$ .

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-6.06	10.08	Complies

Note:  $Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}$ , so the B1 limit  $17 - (12.92 - 6) = 10.08\text{dBm/MHz}$ .

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 1TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	6.35	17.00	Complies
40	5200 MHz	6.32	17.00	Complies
48	5240 MHz	6.31	17.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	0.13	17.00	Complies
46	5230 MHz	3.58	17.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-4.50	17.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	6.53	14.59	Complies
40	5200 MHz	6.30	14.59	Complies
48	5240 MHz	6.32	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.65	14.59	Complies
46	5230 MHz	3.44	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	0.06	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	6.52	12.83	Complies
40	5200 MHz	6.40	12.83	Complies
48	5240 MHz	6.29	12.83	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.45	12.83	Complies
46	5230 MHz	3.27	12.83	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	0.24	12.83	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 3 (Ant. 4 Panel antenna / 5.1 dBi / 1TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	3.39	17.00	Complies
40	5200 MHz	3.28	17.00	Complies
48	5240 MHz	3.20	17.00	Complies

Note: Antenna gain=5.10dBi<6dBi, so the limit doesn't reduce.

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-1.22	17.00	Complies
46	5230 MHz	0.41	17.00	Complies

Note: Antenna gain=5.10dBi<6dBi, so the limit doesn't reduce.

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-3.74	17.00	Complies

Note: Antenna gain=5.10dBi<6dBi, so the limit doesn't reduce.

Temperature	23°C	Humidity	61%
Test Engineer	Kenneth Huang		
Test Mode	Mode 3 (Ant. 4 Panel antenna / 5.1 dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	3.34	14.89	Complies
40	5200 MHz	3.25	14.89	Complies
48	5240 MHz	3.45	14.89	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.11 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.11 - 6) = 14.89 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	0.08	14.89	Complies
46	5230 MHz	0.58	14.89	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.11 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.11 - 6) = 14.89 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-3.52	14.89	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.11 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.11 - 6) = 14.89 \text{ dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Kenneth Huang		
Test Mode	Mode 3 (Ant. 4 Panel antenna / 5.1 dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	3.57	13.13	Complies
40	5200 MHz	3.57	13.13	Complies
48	5240 MHz	3.51	13.13	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.87 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (9.87 - 6) = 13.13 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-0.91	13.13	Complies
46	5230 MHz	0.56	13.13	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.87 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (9.87 - 6) = 13.13 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-4.36	13.13	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.87 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (9.87 - 6) = 13.13 \text{dBm/MHz}.$$



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 1TX)		

For indoor / outdoor use

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	6.13	6.30	Complies
60	5300 MHz	6.24	6.30	Complies
64	5320 MHz	4.29	6.30	Complies
100	5500 MHz	4.55	6.30	Complies
116	5580 MHz	6.16	6.30	Complies
140	5700 MHz	2.53	6.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the B2 B3 limit  $11-(10.70-6)=6.30$ dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	$10\log(500\text{kHz}/\text{RBW})$ Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	2.51	-3.01	-0.50	25.30	Complies
157	5785 MHz	8.21	-3.01	5.20	25.30	Complies
165	5825 MHz	2.46	-3.01	-0.55	25.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the B4 limit  $30-(10.70-6)=25.30$ dBm/500kHz.

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	2.83	6.30	Complies
62	5310 MHz	-1.02	6.30	Complies
102	5510 MHz	0.25	6.30	Complies
110	5550 MHz	3.15	6.30	Complies
134	5670 MHz	0.28	6.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the B2 B3 limit  $11-(10.70-6)=6.30$ dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	$10\log(500\text{kHz}/\text{RBW})$ Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	-1.54	-3.01	-4.55	25.30	Complies
159	5795 MHz	0.23	-3.01	-2.78	25.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the B4 limit  $30-(10.70-6)=25.30$ dBm/500kHz.

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-5.57	6.30	Complies
106	5530 MHz	-3.95	6.30	Complies
122	5610 MHz	-2.61	6.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the B2 B3 limit  $11-(10.70-6)=6.30$ dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	$10\log(500\text{kHz}/\text{RBW})$ Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-4.77	-3.01	-7.78	25.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the B4 limit  $30-(10.70-6)=25.30$ dBm/500kHz.

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.21	6.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the limit  $11-(10.70-6)=6.30$ dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	$10\log(500\text{kHz}/\text{RBW})$ Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	5.70	-3.01	2.69	25.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the limit  $30-(10.70-6)=25.30$ dBm/500kHz.

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	4.07	6.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the limit  $11-(10.70-6)=6.30$ dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	$10\log(500\text{kHz}/\text{RBW})$ Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	3.46	-3.01	0.45	25.30	Complies

Note: Antenna gain=10.70dBi >6dBi, so the limit  $30-(10.70-6)=25.30$ dBm/500kHz.

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	-0.31	6.30	Complies

Note: Antenna gain= 10.70dBi > 6dBi, so the limit  $11 - (10.70 - 6) = 6.30$  dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	$10\log(500\text{kHz}/\text{RBW})$ Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-1.32	-3.01	-4.33	25.30	Complies

Note: Antenna gain= 10.70dBi > 6dBi, so the limit  $30 - (10.70 - 6) = 25.30$  dBm/500kHz.



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	5.81	6.30	Complies
60	5300 MHz	5.78	6.30	Complies
64	5320 MHz	5.78	6.30	Complies
100	5500 MHz	5.80	6.30	Complies
116	5580 MHz	5.63	6.30	Complies
140	5700 MHz	4.36	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B2 B3 limit } 11 - (10.70 - 6) = 6.30\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	3.67	-3.01	0.66	25.30	Complies
157	5785 MHz	10.26	-3.01	7.25	25.30	Complies
165	5825 MHz	4.89	-3.01	1.88	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B4 limit } 30 - (10.70 - 6) = 25.30\text{dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	2.70	6.30	Complies
62	5310 MHz	1.02	6.30	Complies
102	5510 MHz	2.38	6.30	Complies
110	5550 MHz	2.79	6.30	Complies
134	5670 MHz	2.68	6.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B2 B3 limit  $11-(10.70-6)=6.30\text{dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	0.13	-3.01	-2.88	25.30	Complies
159	5795 MHz	1.71	-3.01	-1.30	25.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B4 limit  $30-(10.70-6)=25.30\text{dBm/500kHz}$ .

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-3.07	6.30	Complies
106	5530 MHz	-1.35	6.30	Complies
122	5610 MHz	-0.32	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B2 B3 limit } 11 - (10.70 - 6) = 6.30\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-3.42	-3.01	-6.43	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B4 limit } 30 - (10.70 - 6) = 25.30\text{dBm/500kHz}.$$

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.29	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 11 - (10.70 - 6) = 6.30 \text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	6.01	-3.01	3.00	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 30 - (10.70 - 6) = 25.30 \text{dBm/500MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	3.48	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 11 - (10.70 - 6) = 6.30 \text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	2.66	-3.01	-0.35	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 30 - (10.70 - 6) = 25.30 \text{dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	2.29	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the limit } 11-(10.70-6)=6.30\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	0.93	-3.01	-2.08	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the limit } 30-(10.70-6)=25.30\text{dBm/500kHz}.$$



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	3.99	4.08	Complies
60	5300 MHz	4.07	4.08	Complies
64	5320 MHz	4.07	4.08	Complies
100	5500 MHz	4.01	4.08	Complies
116	5580 MHz	3.97	4.08	Complies
140	5700 MHz	4.02	4.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B2 B3 limit } 11 - (12.92 - 6) = 4.08\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	6.36	-3.01	3.35	23.08	Complies
157	5785 MHz	11.22	-3.01	8.21	23.08	Complies
165	5825 MHz	6.37	-3.01	3.36	23.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B4 limit } 30 - (12.92 - 6) = 23.08\text{dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	3.02	4.08	Complies
62	5310 MHz	1.45	4.08	Complies
102	5510 MHz	1.92	4.08	Complies
110	5550 MHz	2.88	4.08	Complies
134	5670 MHz	2.66	4.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B2 B3 limit } 11 - (12.92 - 6) = 4.08\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	1.50	-3.01	-1.51	23.08	Complies
159	5795 MHz	3.50	-3.01	0.49	23.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B4 limit } 30 - (12.92 - 6) = 23.08\text{dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-4.89	4.08	Complies
106	5530 MHz	-3.61	4.08	Complies
122	5610 MHz	-0.04	4.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B2 B3 limit } 11 - (12.92 - 6) = 4.08\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-2.16	-3.01	-5.17	23.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B4 limit } 30 - (12.92 - 6) = 23.08\text{dBm/500kHz}.$$

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	4.01	4.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 11 - (12.92 - 6) = 4.08 \text{ dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	3.87	-3.01	0.86	23.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 30 - (12.92 - 6) = 23.08 \text{ dBm/500kHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	3.38	4.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 11 - (12.92 - 6) = 4.08 \text{ dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	2.23	-3.01	-0.78	23.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 30 - (12.92 - 6) = 23.08 \text{ dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	1.37	4.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the limit } 11-(12.92-6)=4.08\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-0.50	-3.01	-3.51	23.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the limit } 30-(12.92-6)=23.08\text{dBm/500kHz}.$$



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 1TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	5.24	11.00	Complies
60	5300 MHz	5.24	11.00	Complies
64	5320 MHz	5.24	11.00	Complies
100	5500 MHz	6.06	11.00	Complies
116	5580 MHz	8.89	11.00	Complies
140	5700 MHz	4.46	11.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	4.18	-3.01	1.17	30.00	Complies
157	5785 MHz	7.83	-3.01	4.82	30.00	Complies
165	5825 MHz	5.36	-3.01	2.35	30.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	1.61	11.00	Complies
62	5310 MHz	0.02	11.00	Complies
102	5510 MHz	0.44	11.00	Complies
110	5550 MHz	1.79	11.00	Complies
134	5670 MHz	1.86	11.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	0.27	-3.01	-2.74	30.00	Complies
159	5795 MHz	3.60	-3.01	0.59	30.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-4.47	11.00	Complies
106	5530 MHz	-3.26	11.00	Complies
122	5610 MHz	-1.59	11.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-3.59	-3.01	-6.60	30.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	8.12	11.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	7.49	-3.01	4.48	30.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	4.29	11.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	3.12	-3.01	0.11	30.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	0.85	11.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-1.00	-3.01	-4.01	30.00	Complies

Note: Antenna gain=5.4dBi<6dBi, so the limit doesn't reduce.

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	8.47	8.59	Complies
60	5300 MHz	8.57	8.59	Complies
64	5320 MHz	7.88	8.59	Complies
100	5500 MHz	8.27	8.59	Complies
116	5580 MHz	8.52	8.59	Complies
140	5700 MHz	6.03	8.59	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}$ , so the B2 B3 limit  $11 - (8.41 - 6) = 8.59 \text{ dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	6.49	-3.01	3.48	27.59	Complies
157	5785 MHz	11.08	-3.01	8.07	27.59	Complies
165	5825 MHz	7.90	-3.01	4.89	27.59	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}$ , so the B4 limit  $30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz}$ .



**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	7.45	8.59	Complies
62	5310 MHz	2.21	8.59	Complies
102	5510 MHz	3.87	8.59	Complies
110	5550 MHz	7.39	8.59	Complies
134	5670 MHz	3.81	8.59	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}$ , so the B2 B3 limit  $11 - (8.41 - 6) = 8.59 \text{ dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	2.01	-3.01	-1.00	27.59	Complies
159	5795 MHz	4.49	-3.01	1.48	27.59	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}$ , so the B4 limit  $30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz}$ .

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-0.37	8.59	Complies
106	5530 MHz	0.63	8.59	Complies
122	5610 MHz	2.69	8.59	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}$ , so the B2 B3 limit  $11 - (8.41 - 6) = 8.59 \text{ dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-0.56	-3.01	-3.57	27.59	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}$ , so the B4 limit  $30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz}$ .

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	8.57	8.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi, so the limit } 11 - (8.41 - 6) = 8.59 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	8.18	-3.01	5.17	27.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi, so the limit } 30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	7.63	8.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi, so the limit } 11 - (8.41 - 6) = 8.59 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	6.80	-3.01	3.79	27.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi, so the limit } 30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	3.91	8.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 11 - (8.41 - 6) = 8.59 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	2.77	-3.01	-0.24	27.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz.}$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	6.80	6.83	Complies
60	5300 MHz	6.78	6.83	Complies
64	5320 MHz	6.77	6.83	Complies
100	5500 MHz	6.79	6.83	Complies
116	5580 MHz	6.82	6.83	Complies
140	5700 MHz	6.76	6.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}, \text{ so the B2 B3 limit } 11 - (10.17 - 6) = 6.83 \text{ dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	6.63	-3.01	3.62	25.83	Complies
157	5785 MHz	11.22	-3.01	8.21	25.83	Complies
165	5825 MHz	8.26	-3.01	5.25	25.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}, \text{ so the B4 limit } 30 - (10.17 - 6) = 25.83 \text{ dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	6.81	6.83	Complies
62	5310 MHz	3.66	6.83	Complies
102	5510 MHz	4.66	6.83	Complies
110	5550 MHz	6.82	6.83	Complies
134	5670 MHz	6.37	6.83	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}$ , so the B2 B3 limit  $11 - (10.17 - 6) = 6.83 \text{ dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	4.09	-3.01	1.08	25.83	Complies
159	5795 MHz	5.40	-3.01	2.39	25.83	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}$ , so the B4 limit  $30 - (10.17 - 6) = 25.83 \text{ dBm/500kHz}$ .

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-0.13	6.83	Complies
106	5530 MHz	-0.21	6.83	Complies
122	5610 MHz	3.19	6.83	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}$ , so the B2 B3 limit  $11 - (10.17 - 6) = 6.83 \text{ dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	0.06	-3.01	-2.95	25.83	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}$ , so the B4 limit  $30 - (10.17 - 6) = 25.83 \text{ dBm/500kHz}$ .



### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.73	6.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 11 - (10.17 - 6) = 6.83 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	6.22	-3.01	3.21	25.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 30 - (10.17 - 6) = 25.83 \text{ dBm/500kHz.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	6.76	6.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 11 - (10.17 - 6) = 6.83 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	5.74	-3.01	2.73	25.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 30 - (10.17 - 6) = 25.83 \text{ dBm/500kHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	6.36	6.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 11 - (10.17 - 6) = 6.83 \text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	4.55	-3.01	1.54	25.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 30 - (10.17 - 6) = 25.83 \text{dBm/500kHz}.$$

### <For Beamforming Mode>

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)		

For indoor use

### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	5.56	12.30	Complies
40	5200 MHz	10.37	12.30	Complies
48	5240 MHz	8.84	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17-(10.70-6)=12.30\text{dBm/MHz}.$$

### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	1.65	12.30	Complies
46	5230 MHz	6.86	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17-(10.70-6)=12.30\text{dBm/MHz}.$$

### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-0.52	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17-(10.70-6)=12.30\text{dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	7.59	10.08	Complies
40	5200 MHz	9.60	10.08	Complies
48	5240 MHz	9.55	10.08	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17 - (12.92 - 6) = 10.08\text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.28	10.08	Complies
46	5230 MHz	6.87	10.08	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17 - (12.92 - 6) = 10.08\text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	0.22	10.08	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17 - (12.92 - 6) = 10.08\text{dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	7.54	14.59	Complies
40	5200 MHz	11.67	14.59	Complies
48	5240 MHz	11.01	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.88	14.59	Complies
46	5230 MHz	8.48	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-0.06	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	9.50	12.83	Complies
40	5200 MHz	11.13	12.83	Complies
48	5240 MHz	11.14	12.83	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	5.02	12.83	Complies
46	5230 MHz	8.13	12.83	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	1.05	12.83	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)		

For outdoor use

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	0.14	12.30	Complies
40	5200 MHz	0.25	12.30	Complies
48	5240 MHz	0.06	12.30	Complies

Note:  $Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B1 limit  $17-(10.70-6)=12.30\text{dBm/MHz}$ .

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-2.74	12.30	Complies
46	5230 MHz	-2.87	12.30	Complies

Note:  $Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B1 limit  $17-(10.70-6)=12.30\text{dBm/MHz}$ .

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-5.67	12.30	Complies

Note:  $Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B1 limit  $17-(10.70-6)=12.30\text{dBm/MHz}$ .

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	-1.51	10.08	Complies
40	5200 MHz	-1.47	10.08	Complies
48	5240 MHz	-1.42	10.08	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (12.92 - 6) = 10.08 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-4.58	10.08	Complies
46	5230 MHz	-4.20	10.08	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (12.92 - 6) = 10.08 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-7.66	10.08	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (12.92 - 6) = 10.08 \text{dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	3.45	14.59	Complies
40	5200 MHz	3.40	14.59	Complies
48	5240 MHz	3.27	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	0.25	14.59	Complies
46	5230 MHz	0.32	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-2.64	14.59	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.41 - 6) = 14.59 \text{ dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	1.80	12.83	Complies
40	5200 MHz	1.58	12.83	Complies
48	5240 MHz	1.69	12.83	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-1.26	12.83	Complies
46	5230 MHz	-1.27	12.83	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-4.30	12.83	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.17 - 6) = 12.83 \text{dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Kenneth Huang		
Test Mode	Mode 3 (Ant. 4 Panel antenna / 5.1 dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	0.51	14.89	Complies
40	5200 MHz	0.47	14.89	Complies
48	5240 MHz	0.36	14.89	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.11 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.11 - 6) = 14.89 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-2.64	14.89	Complies
46	5230 MHz	-2.68	14.89	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.11 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.11 - 6) = 14.89 \text{ dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-6.05	14.89	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.11 \text{ dBi} > 6 \text{ dBi}, \text{ so the B1 limit } 17 - (8.11 - 6) = 14.89 \text{ dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Kenneth Huang		
Test Mode	Mode 3 (Ant. 4 Panel antenna / 5.1 dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	-1.07	13.13	Complies
40	5200 MHz	-0.99	13.13	Complies
48	5240 MHz	-1.27	13.13	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.87 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (9.87 - 6) = 13.13 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-4.19	13.13	Complies
46	5230 MHz	-3.73	13.13	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.87 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (9.87 - 6) = 13.13 \text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-8.73	13.13	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 9.87 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (9.87 - 6) = 13.13 \text{dBm/MHz}.$$



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)		

For indoor / outdoor use

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	5.81	6.30	Complies
60	5300 MHz	5.82	6.30	Complies
64	5320 MHz	5.86	6.30	Complies
100	5500 MHz	5.09	6.30	Complies
116	5580 MHz	5.76	6.30	Complies
140	5700 MHz	3.53	6.30	Complies

Note: 
$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B2 B3 limit } 11 - (10.70 - 6) = 6.30\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	4.59	-3.01	1.58	25.30	Complies
157	5785 MHz	7.34	-3.01	4.33	25.30	Complies
165	5825 MHz	4.96	-3.01	1.95	25.30	Complies

Note: 
$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B4 limit } 30 - (10.70 - 6) = 25.30\text{dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	2.70	6.30	Complies
62	5310 MHz	2.43	6.30	Complies
102	5510 MHz	3.27	6.30	Complies
110	5550 MHz	2.79	6.30	Complies
134	5670 MHz	2.09	6.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B2 B3 limit  $11-(10.70-6)=6.30\text{dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	-0.53	-3.01	-3.54	25.30	Complies
159	5795 MHz	0.09	-3.01	-2.92	25.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B4 limit  $30-(10.70-6)=25.30\text{dBm/500kHz}$ .

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-2.33	6.30	Complies
106	5530 MHz	-1.88	6.30	Complies
122	5610 MHz	-1.05	6.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B2 B3 limit  $11-(10.70-6)=6.30\text{dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-4.05	-3.01	-7.06	25.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B4 limit  $30-(10.70-6)=25.30\text{dBm/500kHz}$ .

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.29	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 11 - (10.70 - 6) = 6.30 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	6.01	-3.01	3.00	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 30 - (10.70 - 6) = 25.30 \text{ dBm/500kHz.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	3.48	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 11 - (10.70 - 6) = 6.30 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	2.66	-3.01	-0.35	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 30 - (10.70 - 6) = 25.30 \text{ dBm/500kHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	2.29	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the limit } 11 - (10.70 - 6) = 6.30\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	0.93	-3.01	-2.08	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the limit } 30 - (10.70 - 6) = 25.30\text{dBm/500kHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	3.98	4.08	Complies
60	5300 MHz	3.76	4.08	Complies
64	5320 MHz	3.96	4.08	Complies
100	5500 MHz	3.91	4.08	Complies
116	5580 MHz	3.94	4.08	Complies
140	5700 MHz	3.97	4.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B2 B3 limit } 11 - (12.92 - 6) = 4.08\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	3.97	-3.01	0.96	23.08	Complies
157	5785 MHz	9.99	-3.01	6.98	23.08	Complies
165	5825 MHz	6.00	-3.01	2.99	23.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}, \text{ so the B4 limit } 30 - (12.92 - 6) = 23.08\text{dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	0.45	4.08	Complies
62	5310 MHz	0.29	4.08	Complies
102	5510 MHz	0.01	4.08	Complies
110	5550 MHz	0.36	4.08	Complies
134	5670 MHz	0.04	4.08	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}$ , so the B2 B3 limit  $11-(12.92-6)=4.08\text{dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	-0.34	-3.01	-3.35	23.08	Complies
159	5795 MHz	4.00	-3.01	0.99	23.08	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}$ , so the B4 limit  $30-(12.92-6)=23.08\text{dBm/500kHz}$ .

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-2.44	4.08	Complies
106	5530 MHz	-2.16	4.08	Complies
122	5610 MHz	-2.03	4.08	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}$ , so the B2 B3 limit  $11-(12.92-6)=4.08\text{dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-3.63	-3.01	-6.64	23.08	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92\text{dBi} > 6\text{dBi}$ , so the B4 limit  $30-(12.92-6)=23.08\text{dBm/500kHz}$ .



### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	4.01	4.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{ dBi} > 6 \text{ dBi, so the limit } 11 - (12.92 - 6) = 4.08 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	3.87	-3.01	0.86	23.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{ dBi} > 6 \text{ dBi, so the limit } 30 - (12.92 - 6) = 23.08 \text{ dBm/500kHz.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	1.43	4.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{ dBi} > 6 \text{ dBi, so the limit } 11 - (12.92 - 6) = 4.08 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	0.17	-3.01	-2.84	23.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{ dBi} > 6 \text{ dBi, so the limit } 30 - (12.92 - 6) = 23.08 \text{ dBm/500kHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	0.56	4.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 11 - (12.92 - 6) = 4.08 \text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-0.97	-3.01	-3.98	23.08	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 12.92 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 30 - (12.92 - 6) = 23.08 \text{dBm/500kHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	8.37	8.59	Complies
60	5300 MHz	8.25	8.59	Complies
64	5320 MHz	7.46	8.59	Complies
100	5500 MHz	8.27	8.59	Complies
116	5580 MHz	8.56	8.59	Complies
140	5700 MHz	6.44	8.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B2 B3 limit } 11 - (8.41 - 6) = 8.59 \text{ dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	6.49	-3.01	3.48	27.59	Complies
157	5785 MHz	11.08	-3.01	8.07	27.59	Complies
165	5825 MHz	6.97	-3.01	3.96	27.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the B4 limit } 30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	5.44	8.59	Complies
62	5310 MHz	2.21	8.59	Complies
102	5510 MHz	4.14	8.59	Complies
110	5550 MHz	5.28	8.59	Complies
134	5670 MHz	3.29	8.59	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}$ , so the B2 B3 limit  $11 - (8.41 - 6) = 8.59 \text{ dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	2.14	-3.01	-0.87	27.59	Complies
159	5795 MHz	4.78	-3.01	1.77	27.59	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}$ , so the B4 limit  $30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz}$ .

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-1.83	8.59	Complies
106	5530 MHz	0.17	8.59	Complies
122	5610 MHz	2.48	8.59	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}$ , so the B2 B3 limit  $11 - (8.41 - 6) = 8.59 \text{ dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-0.56	-3.01	-3.57	27.59	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}$ , so the B4 limit  $30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz}$ .

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	8.57	8.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi, so the limit } 11 - (8.41 - 6) = 8.59 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	8.18	-3.01	5.17	27.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi, so the limit } 30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	6.63	8.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi, so the limit } 11 - (8.41 - 6) = 8.59 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	5.78	-3.01	2.77	27.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi, so the limit } 30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	4.98	8.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 11 - (8.41 - 6) = 8.59 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	3.67	-3.01	0.66	27.59	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.41 \text{ dBi} > 6 \text{ dBi}, \text{ so the limit } 30 - (8.41 - 6) = 27.59 \text{ dBm/500kHz.}$$



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	6.78	6.83	Complies
60	5300 MHz	6.75	6.83	Complies
64	5320 MHz	6.72	6.83	Complies
100	5500 MHz	6.82	6.83	Complies
116	5580 MHz	6.78	6.83	Complies
140	5700 MHz	6.78	6.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B2 B3 limit } 11 - (10.17 - 6) = 6.83 \text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	6.63	-3.01	3.62	25.83	Complies
157	5785 MHz	11.22	-3.01	8.21	25.83	Complies
165	5825 MHz	7.86	-3.01	4.85	25.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the B4 limit } 30 - (10.17 - 6) = 25.83 \text{dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	3.35	6.83	Complies
62	5310 MHz	3.10	6.83	Complies
102	5510 MHz	3.68	6.83	Complies
110	5550 MHz	3.70	6.83	Complies
134	5670 MHz	3.71	6.83	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}$ , so the B2 B3 limit  $11 - (10.17 - 6) = 6.83 \text{ dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	4.09	-3.01	1.08	25.83	Complies
159	5795 MHz	5.40	-3.01	2.39	25.83	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}$ , so the B4 limit  $30 - (10.17 - 6) = 25.83 \text{ dBm/500kHz}$ .

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-0.98	6.83	Complies
106	5530 MHz	-0.21	6.83	Complies
122	5610 MHz	0.55	6.83	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}$ , so the B2 B3 limit  $11 - (10.17 - 6) = 6.83 \text{ dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-0.30	-3.01	-3.31	25.83	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi}$ , so the B4 limit  $30 - (10.17 - 6) = 25.83 \text{ dBm/500kHz}$ .

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.73	6.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi, so the limit } 11 - (10.17 - 6) = 6.83 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	6.22	-3.01	3.21	25.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi, so the limit } 30 - (10.17 - 6) = 25.83 \text{ dBm/500kHz.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	5.72	6.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi, so the limit } 11 - (10.17 - 6) = 6.83 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	4.65	-3.01	1.64	25.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{ dBi} > 6 \text{ dBi, so the limit } 30 - (10.17 - 6) = 25.83 \text{ dBm/500kHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	2.56	6.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 11 - (10.17 - 6) = 6.83 \text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	0.70	-3.01	-2.31	25.83	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.17 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 30 - (10.17 - 6) = 25.83 \text{dBm/500kHz}.$$

## &lt;For STBC Mode&gt;

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)		

For indoor use

## Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	6.83	12.30	Complies
40	5200 MHz	11.49	12.30	Complies
48	5240 MHz	9.96	12.30	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30 \text{dBm/MHz}.$$

## Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.05	12.30	Complies
46	5230 MHz	6.51	12.30	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30 \text{dBm/MHz}.$$

## Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-1.13	12.30	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30 \text{dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	8.59	12.30	Complies
40	5200 MHz	10.62	12.30	Complies
48	5240 MHz	10.53	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30\text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.53	12.30	Complies
46	5230 MHz	7.21	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30\text{dBm/MHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-0.16	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17 - (10.70 - 6) = 12.30\text{dBm/MHz}.$$



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	9.33	17.00	Complies
40	5200 MHz	11.49	17.00	Complies
48	5240 MHz	11.32	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40\text{dBi} < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	4.11	17.00	Complies
46	5230 MHz	8.37	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40\text{dBi} < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	0.36	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40\text{dBi} < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	11.07	17.00	Complies
40	5200 MHz	11.14	17.00	Complies
48	5240 MHz	11.19	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40\text{dBi} < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	5.04	17.00	Complies
46	5230 MHz	8.29	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40\text{dBi} < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	1.40	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40\text{dBi} < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)		

For outdoor use

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	0.19	12.30	Complies
40	5200 MHz	0.33	12.30	Complies
48	5240 MHz	0.15	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17-(10.70-6)=12.30\text{dBm/MHz}.$$

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-2.45	12.30	Complies
46	5230 MHz	-2.62	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17-(10.70-6)=12.30\text{dBm/MHz}.$$

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-5.74	12.30	Complies

Note:  

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B1 limit } 17-(10.70-6)=12.30\text{dBm/MHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	0.02	12.30	Complies
40	5200 MHz	0.27	12.30	Complies
48	5240 MHz	0.18	12.30	Complies

Note:  $Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B1 limit  $17-(10.70-6)=12.30\text{dBm/MHz}$ .

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-2.59	12.30	Complies
46	5230 MHz	-2.37	12.30	Complies

Note:  $Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B1 limit  $17-(10.70-6)=12.30\text{dBm/MHz}$ .

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-5.29	12.30	Complies

Note:  $Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B1 limit  $17-(10.70-6)=12.30\text{dBm/MHz}$ .

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	6.55	17.00	Complies
40	5200 MHz	6.43	17.00	Complies
48	5240 MHz	6.32	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.43	17.00	Complies
46	5230 MHz	3.39	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	0.36	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	6.43	17.00	Complies
40	5200 MHz	6.38	17.00	Complies
48	5240 MHz	6.31	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.66	17.00	Complies
46	5230 MHz	3.58	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	0.45	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$



Temperature	23°C	Humidity	61%
Test Engineer	Kenneth Huang		
Test Mode	Mode 3 (Ant. 4 Panel antenna / 5.1 dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	3.65	17.00	Complies
40	5200 MHz	3.49	17.00	Complies
48	5240 MHz	3.35	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.10 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	0.16	17.00	Complies
46	5230 MHz	0.45	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.10 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-3.35	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.10 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Temperature	23°C	Humidity	61%
Test Engineer	Kenneth Huang		
Test Mode	Mode 3 (Ant. 4 Panel antenna / 5.1 dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	3.40	17.00	Complies
40	5200 MHz	3.66	17.00	Complies
48	5240 MHz	3.59	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.10 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	0.54	17.00	Complies
46	5230 MHz	0.62	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.10 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-2.65	17.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.10 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)		

For indoor / outdoor use

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	6.16	6.30	Complies
60	5300 MHz	5.95	6.30	Complies
64	5320 MHz	5.80	6.30	Complies
100	5500 MHz	6.05	6.30	Complies
116	5580 MHz	5.95	6.30	Complies
140	5700 MHz	4.90	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B2 B3 limit } 11 - (10.70 - 6) = 6.30\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	3.55	-3.01	0.54	25.30	Complies
157	5785 MHz	10.56	-3.01	7.55	25.30	Complies
165	5825 MHz	5.21	-3.01	2.20	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B4 limit } 30 - (10.70 - 6) = 25.30\text{dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	3.05	6.30	Complies
62	5310 MHz	1.15	6.30	Complies
102	5510 MHz	2.29	6.30	Complies
110	5550 MHz	3.09	6.30	Complies
134	5670 MHz	2.68	6.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B2 B3 limit  $11-(10.70-6)=6.30\text{dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	0.07	-3.01	-2.94	25.30	Complies
159	5795 MHz	1.27	-3.01	-1.74	25.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B4 limit  $30-(10.70-6)=25.30\text{dBm/500kHz}$ .

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-3.02	6.30	Complies
106	5530 MHz	-1.60	6.30	Complies
122	5610 MHz	-0.41	6.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B2 B3 limit  $11-(10.70-6)=6.30\text{dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-3.27	-3.01	-6.28	25.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B4 limit  $30-(10.70-6)=25.30\text{dBm/500kHz}$ .

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.24	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{ dBi} > 6 \text{ dBi, so the limit } 11 - (10.70 - 6) = 6.30 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	5.56	-3.01	2.55	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{ dBi} > 6 \text{ dBi, so the limit } 30 - (10.70 - 6) = 25.30 \text{ dBm/500kHz.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	3.38	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{ dBi} > 6 \text{ dBi, so the limit } 11 - (10.70 - 6) = 6.30 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	2.51	-3.01	-0.50	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{ dBi} > 6 \text{ dBi, so the limit } 30 - (10.70 - 6) = 25.30 \text{ dBm/500kHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	0.73	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the limit } 11 - (10.70 - 6) = 6.30\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-0.31	-3.01	-3.32	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the limit } 30 - (10.70 - 6) = 25.30\text{dBm/500kHz}.$$



Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	6.28	6.30	Complies
60	5300 MHz	6.13	6.30	Complies
64	5320 MHz	6.18	6.30	Complies
100	5500 MHz	5.74	6.30	Complies
116	5580 MHz	5.96	6.30	Complies
140	5700 MHz	5.79	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B2 B3 limit } 11 - (10.70 - 6) = 6.30\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	5.96	-3.01	2.95	25.30	Complies
157	5785 MHz	9.46	-3.01	6.45	25.30	Complies
165	5825 MHz	6.45	-3.01	3.44	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}, \text{ so the B4 limit } 30 - (10.70 - 6) = 25.30\text{dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	3.07	6.30	Complies
62	5310 MHz	3.08	6.30	Complies
102	5510 MHz	3.02	6.30	Complies
110	5550 MHz	3.13	6.30	Complies
134	5670 MHz	3.14	6.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B2 B3 limit  $11 - (10.70 - 6) = 6.30\text{dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	2.49	-3.01	-0.52	25.30	Complies
159	5795 MHz	3.41	-3.01	0.40	25.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B4 limit  $30 - (10.70 - 6) = 25.30\text{dBm/500kHz}$ .

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-1.12	6.30	Complies
106	5530 MHz	-0.97	6.30	Complies
122	5610 MHz	-0.12	6.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B2 B3 limit  $11 - (10.70 - 6) = 6.30\text{dBm/MHz}$ .

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-0.95	-3.01	-3.96	25.30	Complies

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70\text{dBi} > 6\text{dBi}$ , so the B4 limit  $30 - (10.70 - 6) = 25.30\text{dBm/500kHz}$ .

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.16	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 11 - (10.70 - 6) = 6.30 \text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	5.59	-3.01	2.58	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 30 - (10.70 - 6) = 25.30 \text{dBm/500kHz}.$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	3.83	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 11 - (10.70 - 6) = 6.30 \text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	2.93	-3.01	-0.08	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 30 - (10.70 - 6) = 25.30 \text{dBm/500kHz}.$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	0.69	6.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 11 - (10.70 - 6) = 6.30 \text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-1.04	-3.01	-4.05	25.30	Complies

Note:

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.70 \text{dBi} > 6 \text{dBi}, \text{ so the limit } 30 - (10.70 - 6) = 25.30 \text{dBm/500kHz}.$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	10.26	11.00	Complies
60	5300 MHz	9.63	11.00	Complies
64	5320 MHz	9.23	11.00	Complies
100	5500 MHz	9.12	11.00	Complies
116	5580 MHz	10.11	11.00	Complies
140	5700 MHz	6.48	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	7.36	-3.01	4.35	30.00	Complies
157	5785 MHz	10.92	-3.01	7.91	30.00	Complies
165	5825 MHz	8.11	-3.01	5.10	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	6.70	11.00	Complies
62	5310 MHz	2.17	11.00	Complies
102	5510 MHz	4.05	11.00	Complies
110	5550 MHz	7.57	11.00	Complies
134	5670 MHz	4.74	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	3.47	-3.01	0.46	30.00	Complies
159	5795 MHz	4.73	-3.01	1.72	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$
**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-1.45	11.00	Complies
106	5530 MHz	0.20	11.00	Complies
122	5610 MHz	2.72	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-0.69	-3.01	-3.70	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$



### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	10.87	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	10.24	-3.01	7.23	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	7.41	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	7.01	-3.01	4.00	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

### Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	3.82	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	2.47	-3.01	-0.54	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Temperature	23°C	Humidity	61%
Test Engineer	Nick Peng		
Test Mode	Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)		

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260 MHz	10.50	11.00	Complies
60	5300 MHz	9.83	11.00	Complies
64	5320 MHz	10.14	11.00	Complies
100	5500 MHz	9.70	11.00	Complies
116	5580 MHz	10.69	11.00	Complies
140	5700 MHz	8.11	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	8.36	-3.01	5.35	30.00	Complies
157	5785 MHz	11.16	-3.01	8.15	30.00	Complies
165	5825 MHz	9.51	-3.01	6.50	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270 MHz	7.38	11.00	Complies
62	5310 MHz	3.28	11.00	Complies
102	5510 MHz	4.31	11.00	Complies
110	5550 MHz	7.55	11.00	Complies
134	5670 MHz	6.24	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	4.60	-3.01	1.59	30.00	Complies
159	5795 MHz	5.83	-3.01	2.82	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$
**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-0.28	11.00	Complies
106	5530 MHz	0.32	11.00	Complies
122	5610 MHz	3.75	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	0.64	-3.01	-2.37	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

### Straddle Channel

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	10.75	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	10.13	-3.01	7.12	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	8.47	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	7.73	-3.01	4.72	30.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi} < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3**

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	4.84	11.00	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	3.17	-3.01	0.16	30.00	Complies

Note:

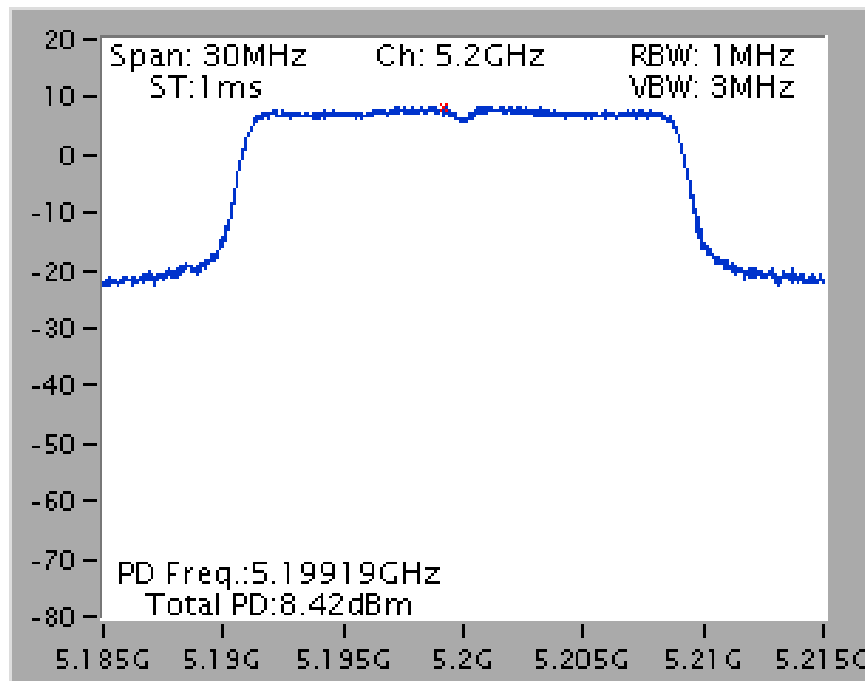
$$Directional Gain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{dBi} < 6 \text{dBi}, \text{ so the limit doesn't reduce.}$$

<For Non-Beamforming Mode>

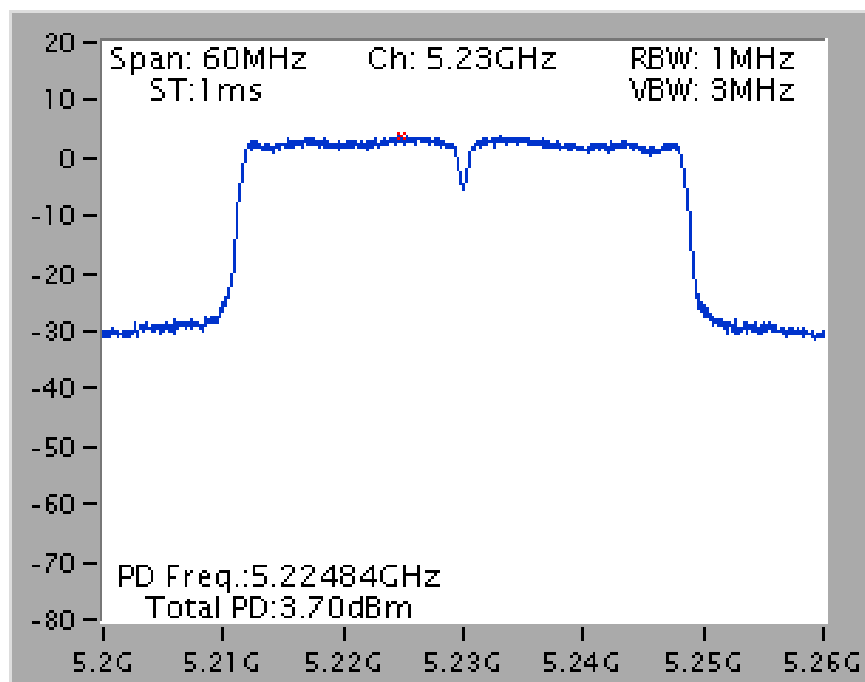
For indoor use

Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 1TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5200 MHz

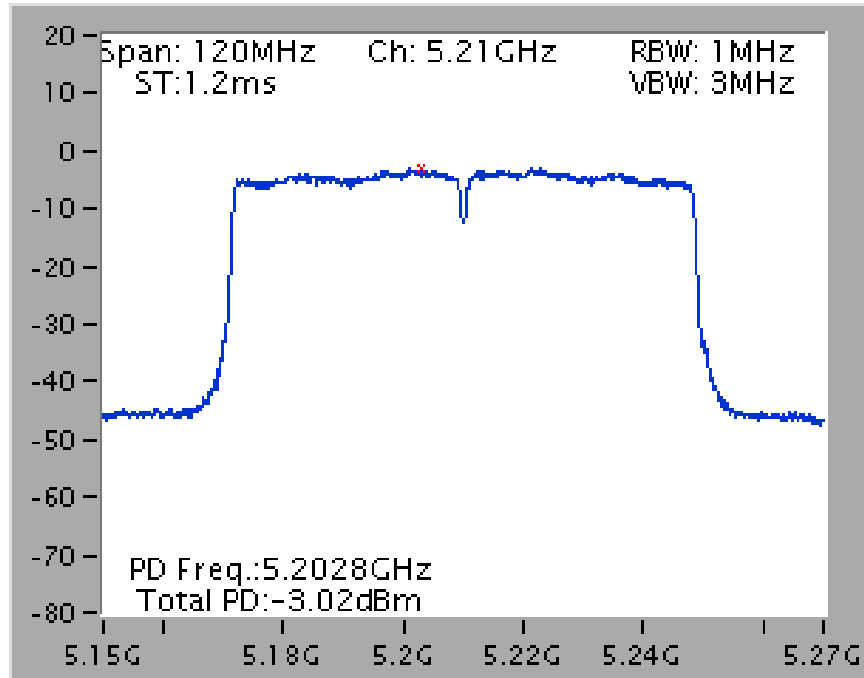


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5230 MHz



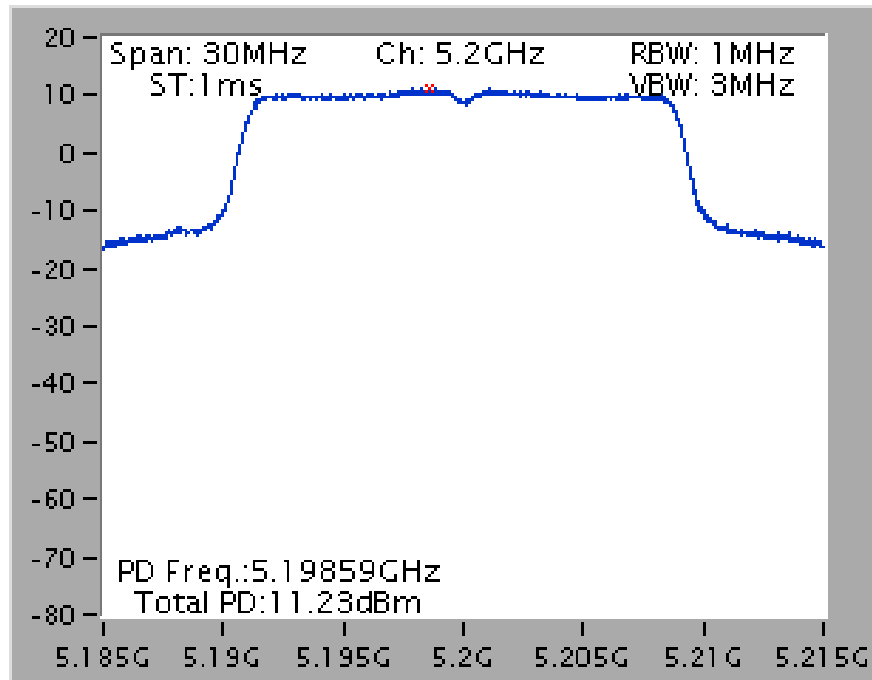


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5210 MHz

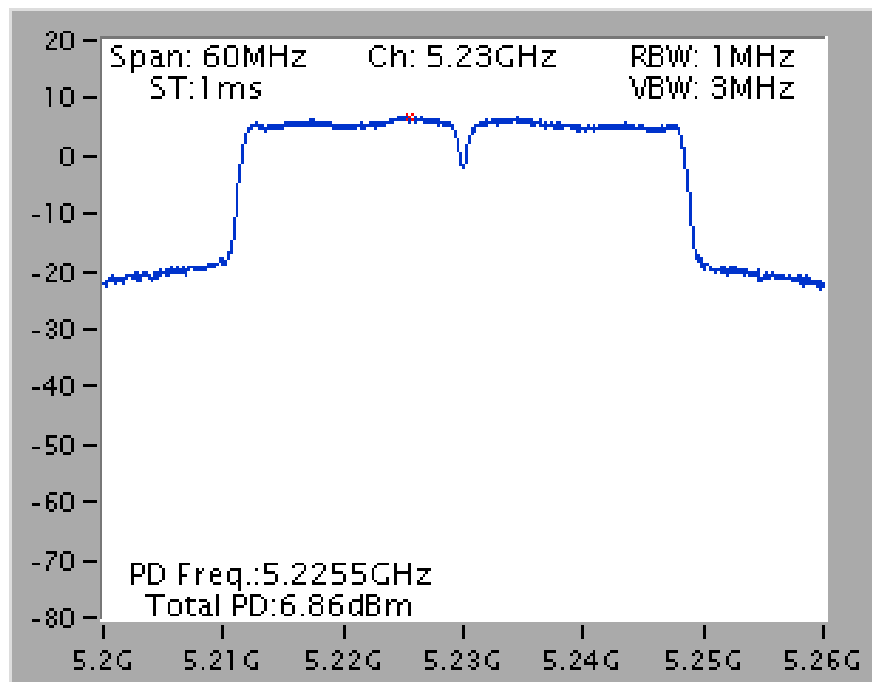


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)

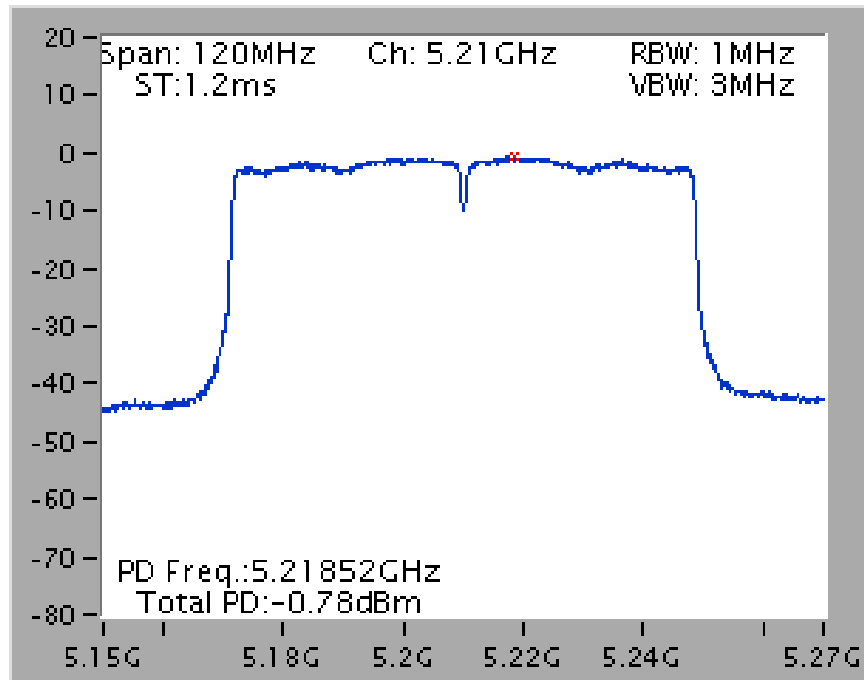
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz

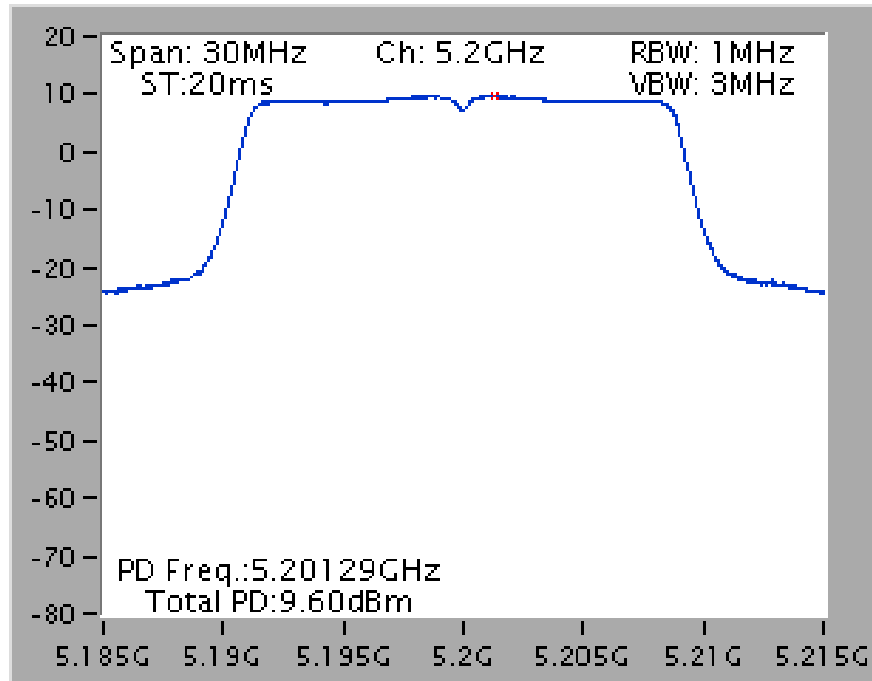


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

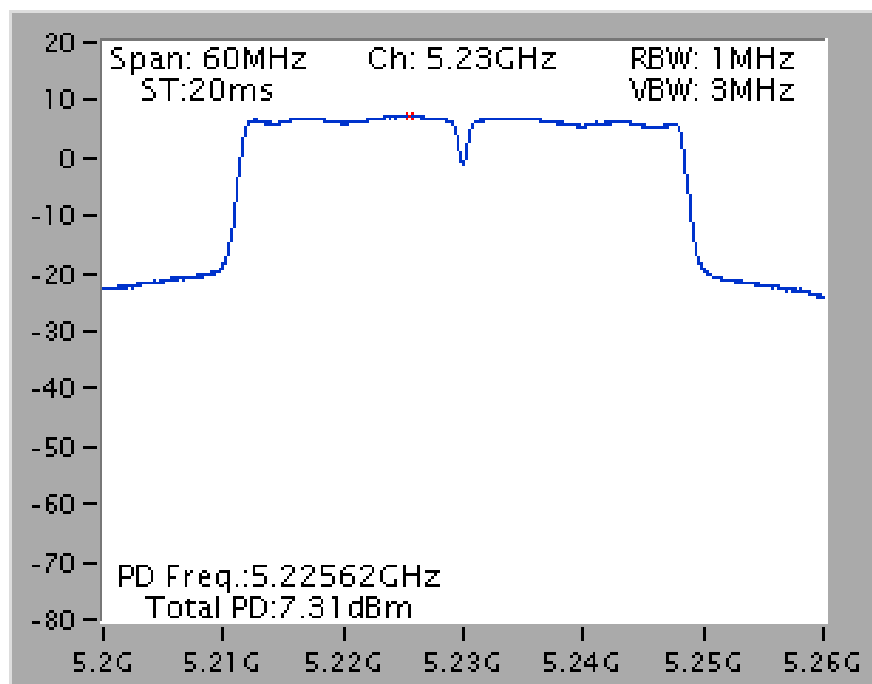


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)

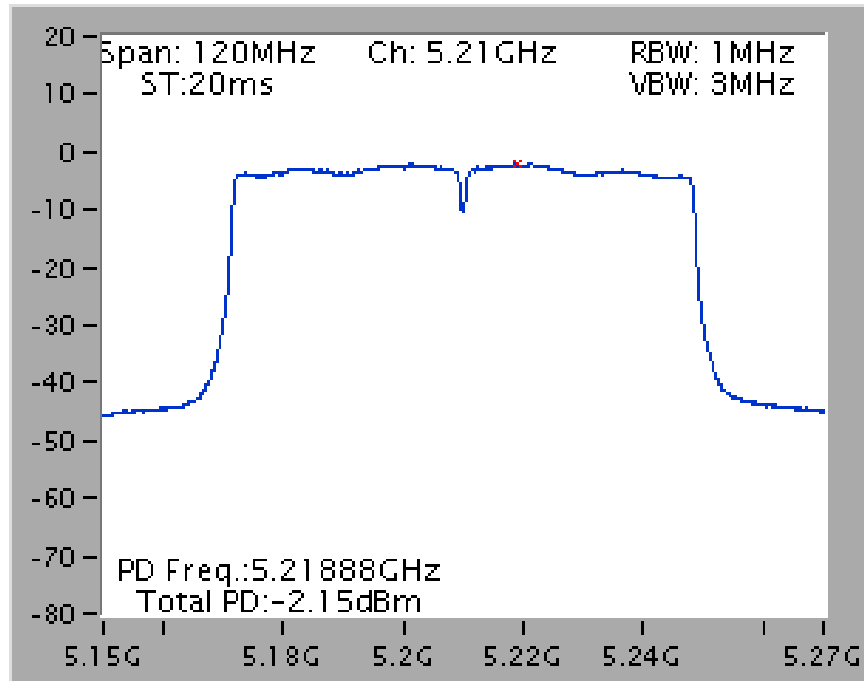
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz

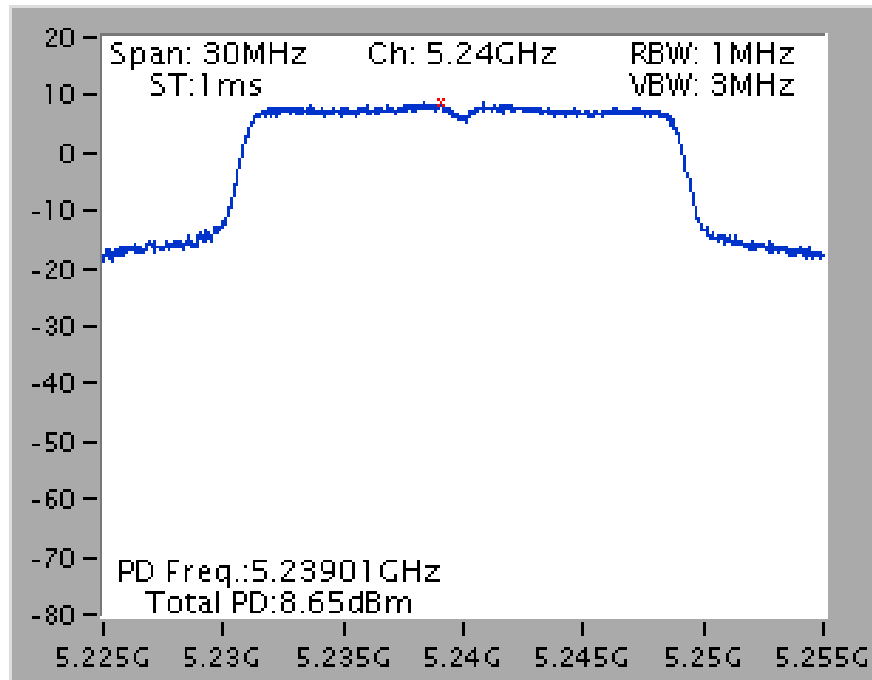


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz

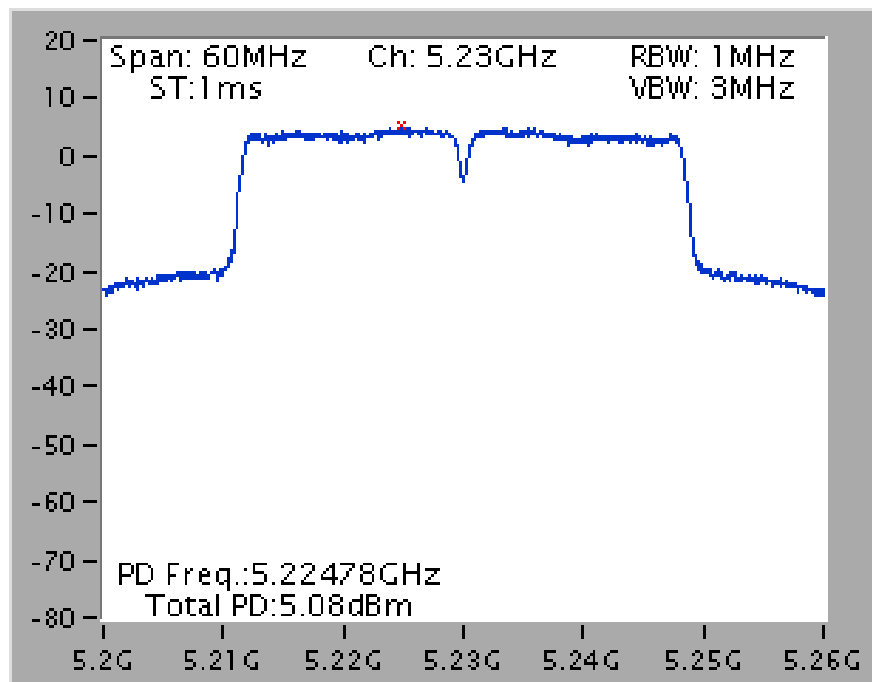


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 1TX)

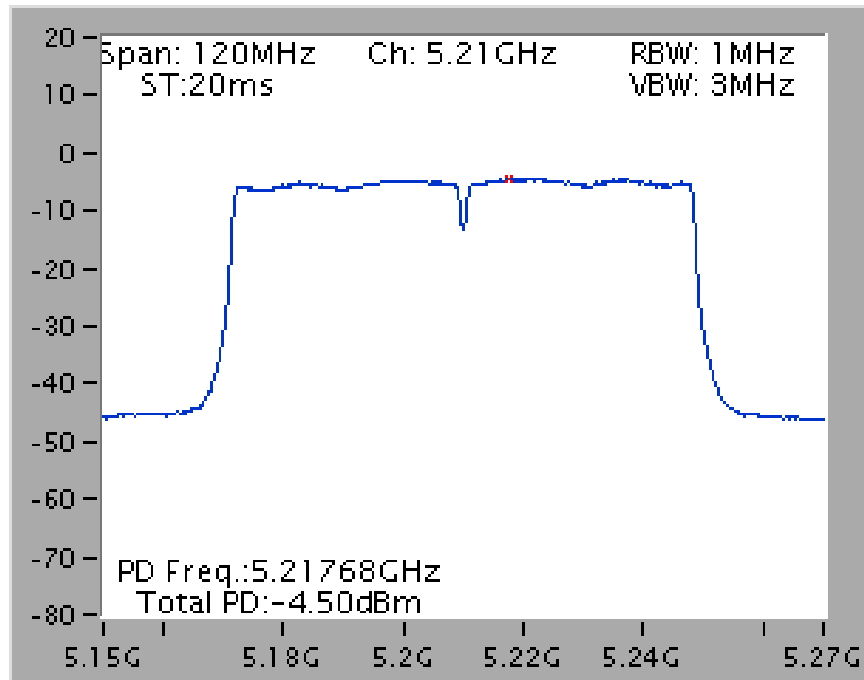
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5240 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5230 MHz



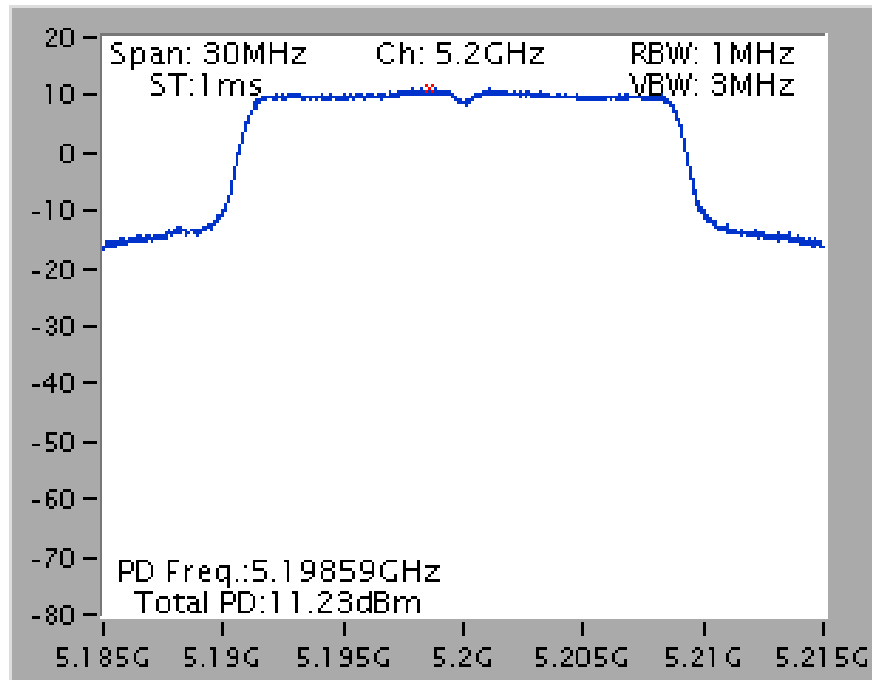
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5210 MHz



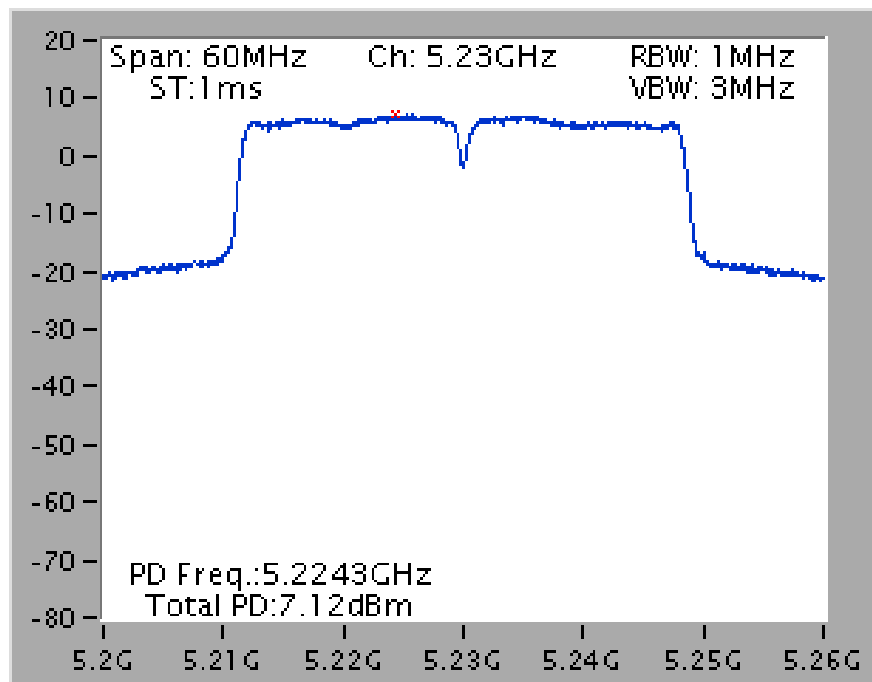


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

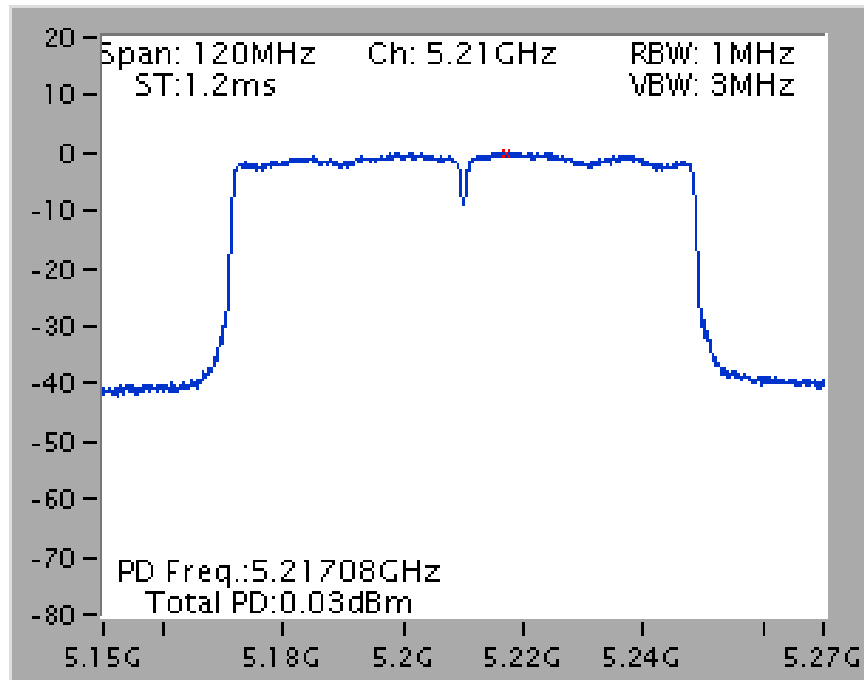
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz

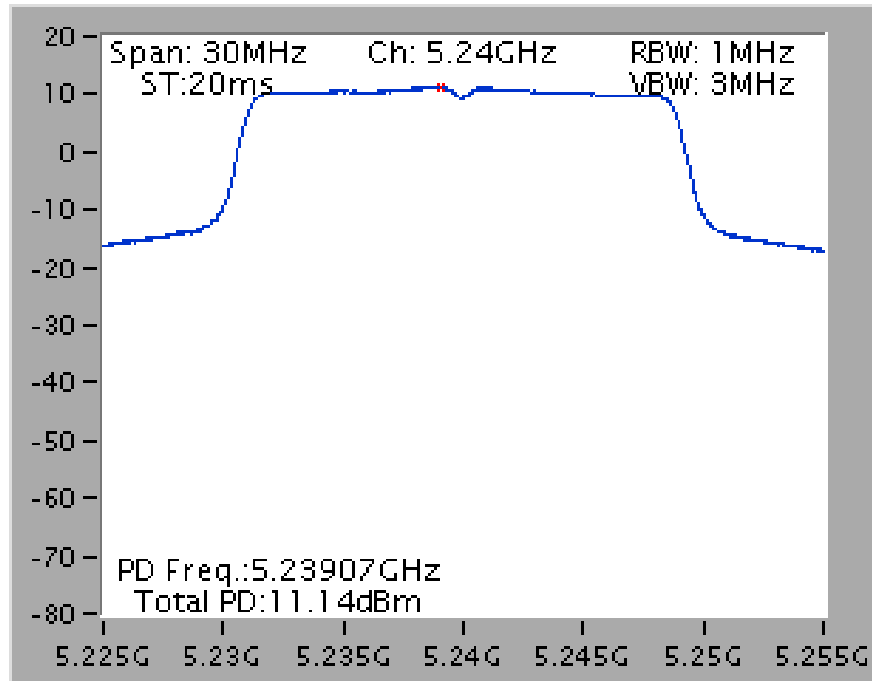


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

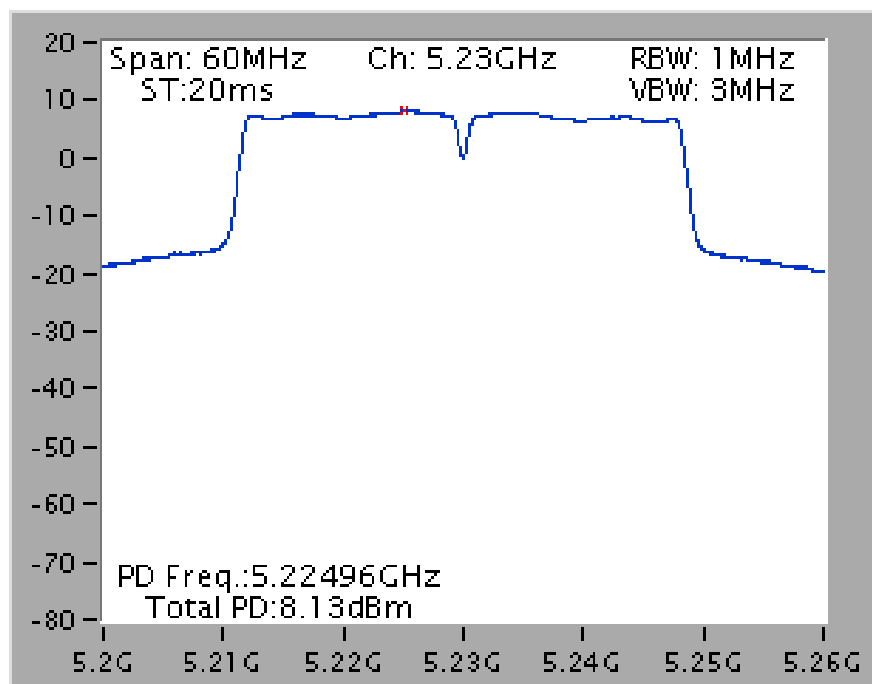


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

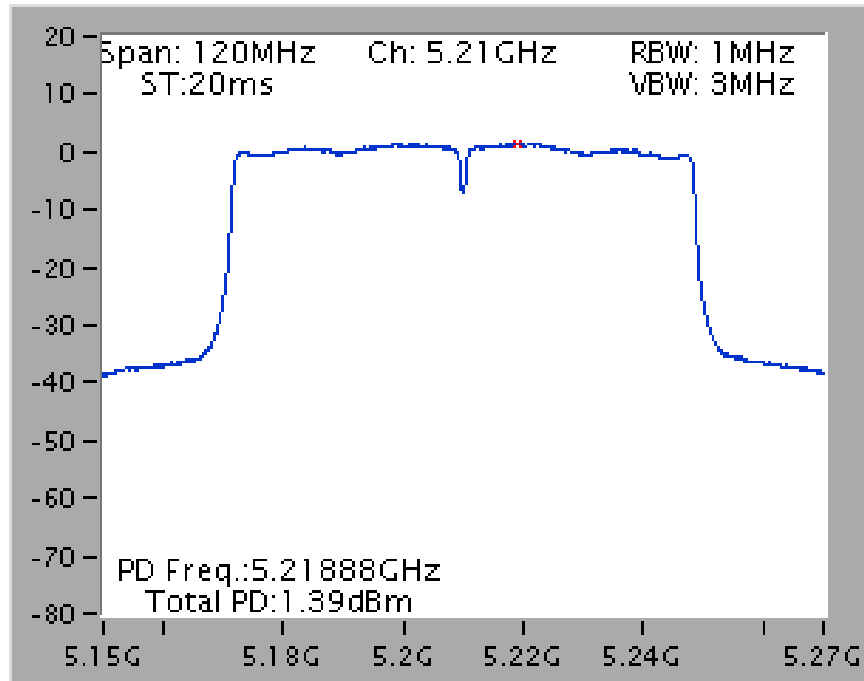
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5240 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz



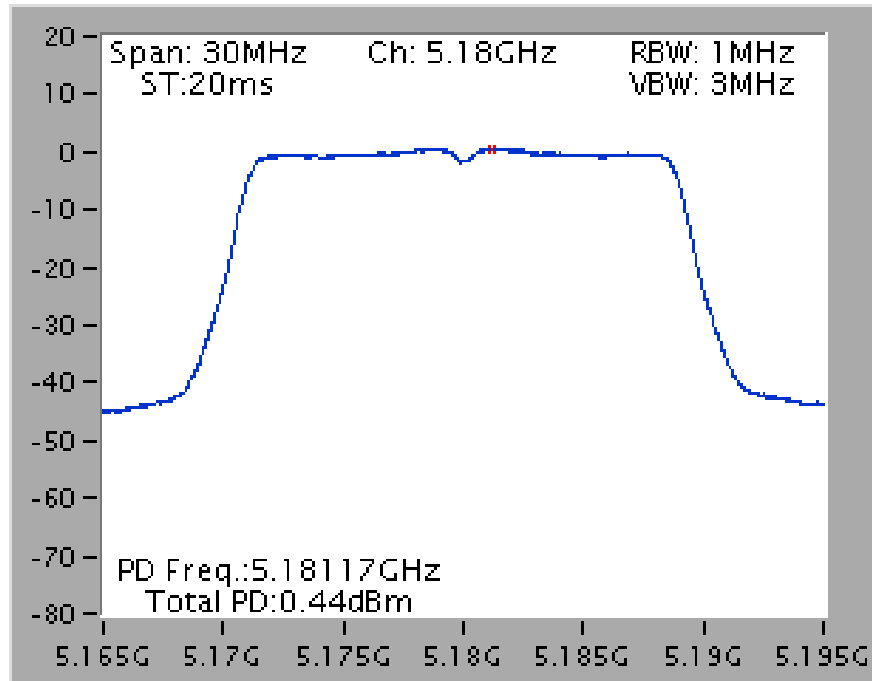
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz



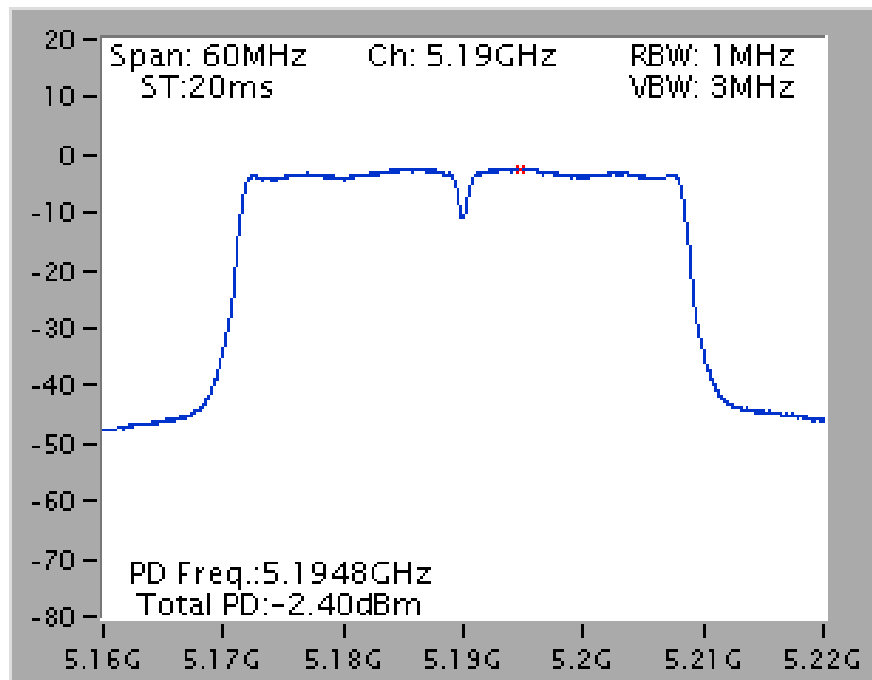
For outdoor use

Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 1TX)

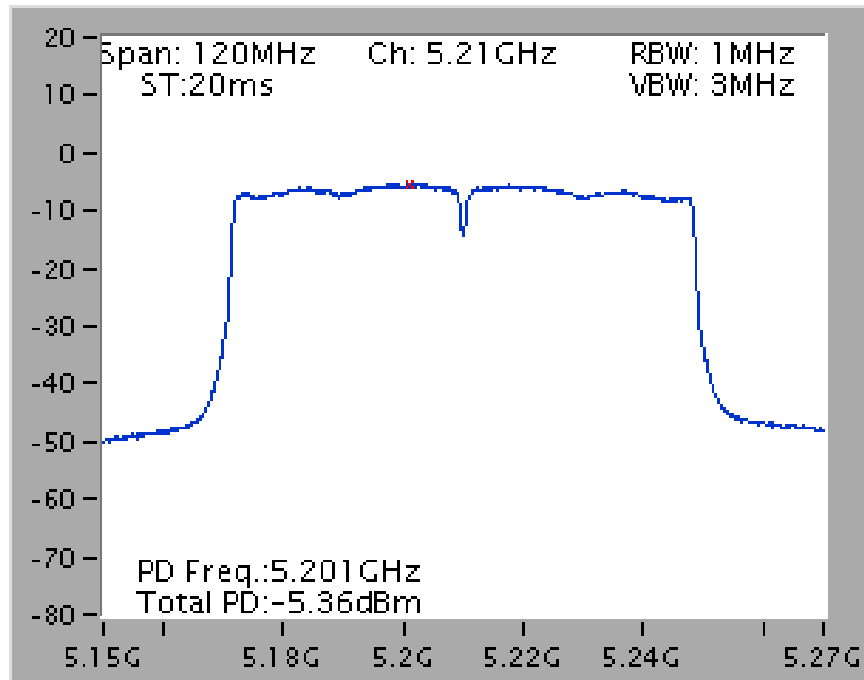
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5190 MHz

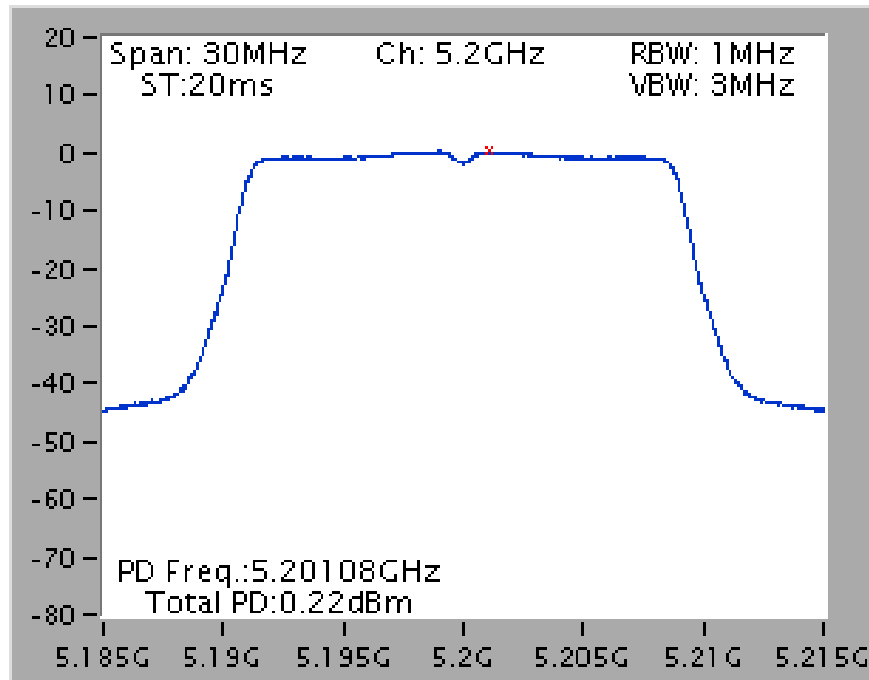


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5210 MHz

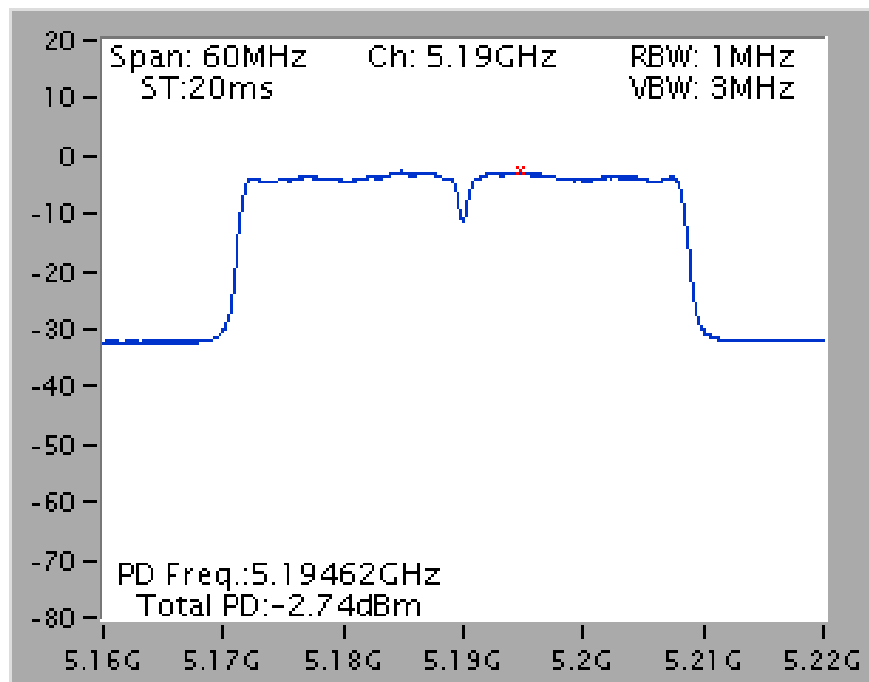


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5200 MHz

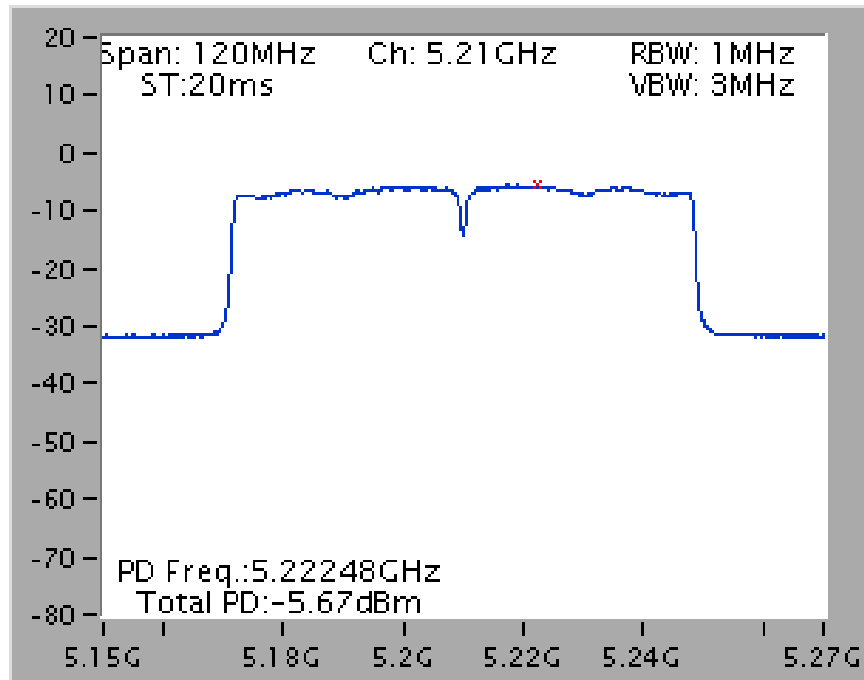


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5190 MHz



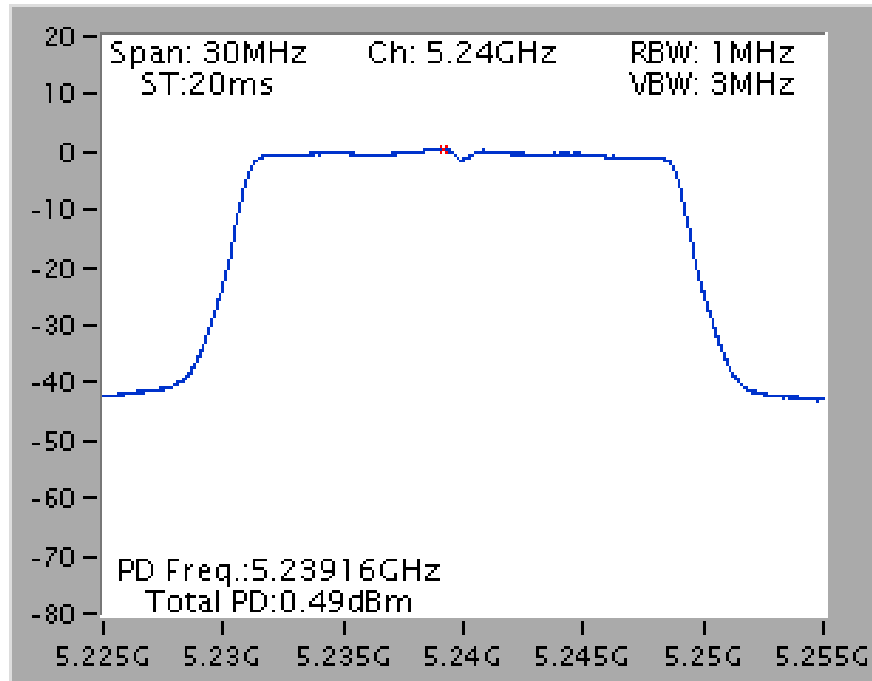


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

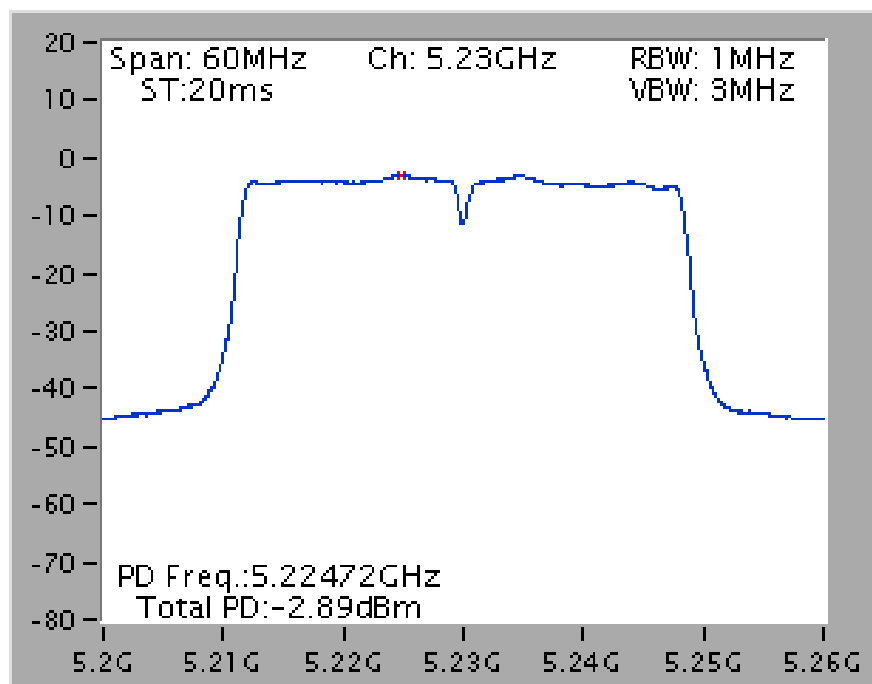


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)

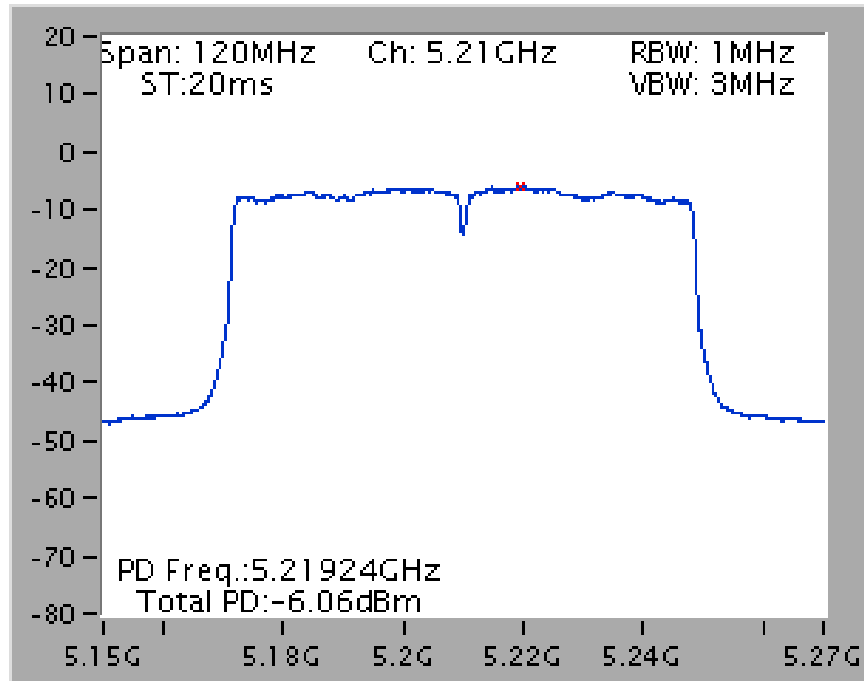
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5240 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz

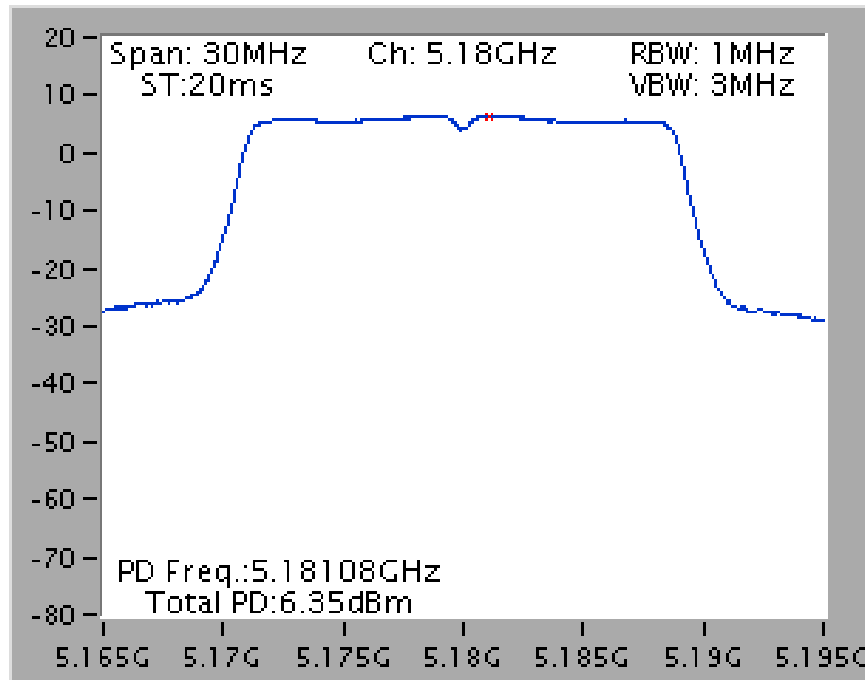


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz

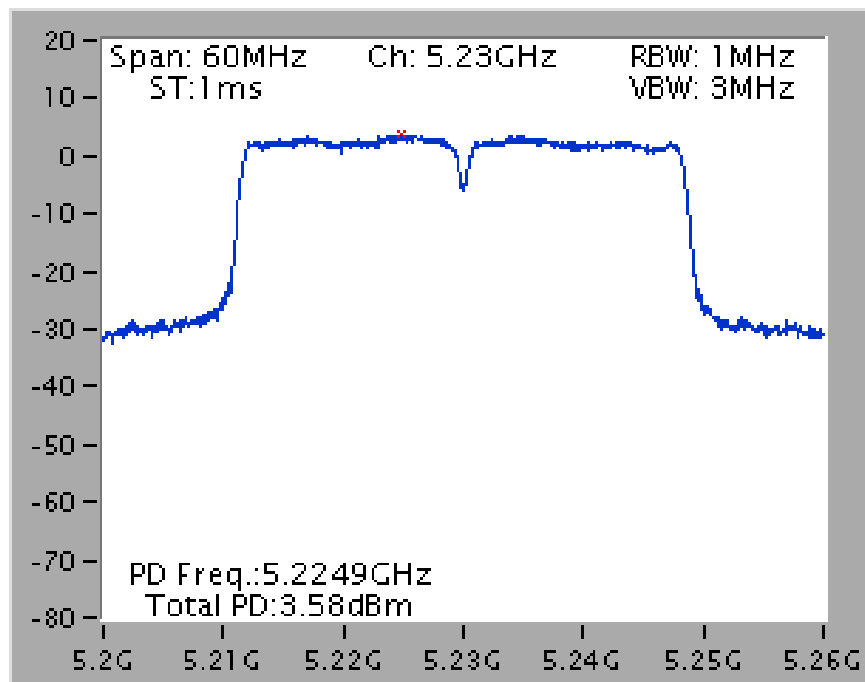


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 1TX)

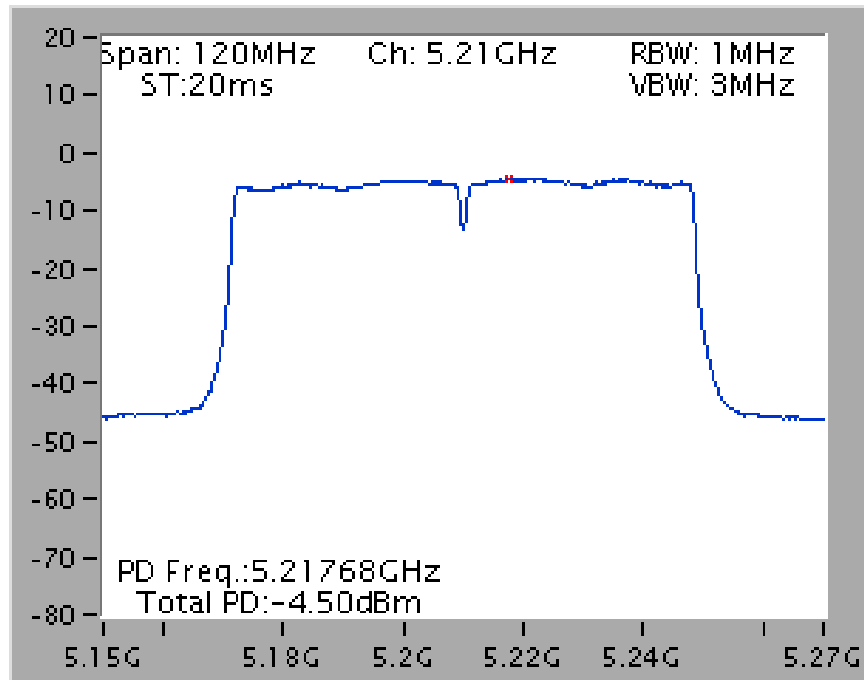
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5230 MHz

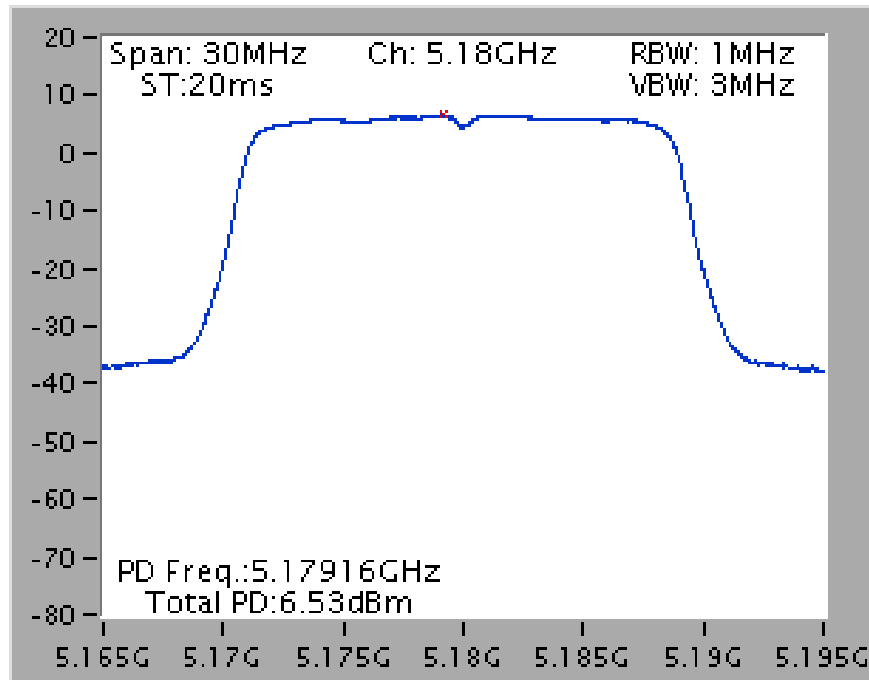


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5210 MHz

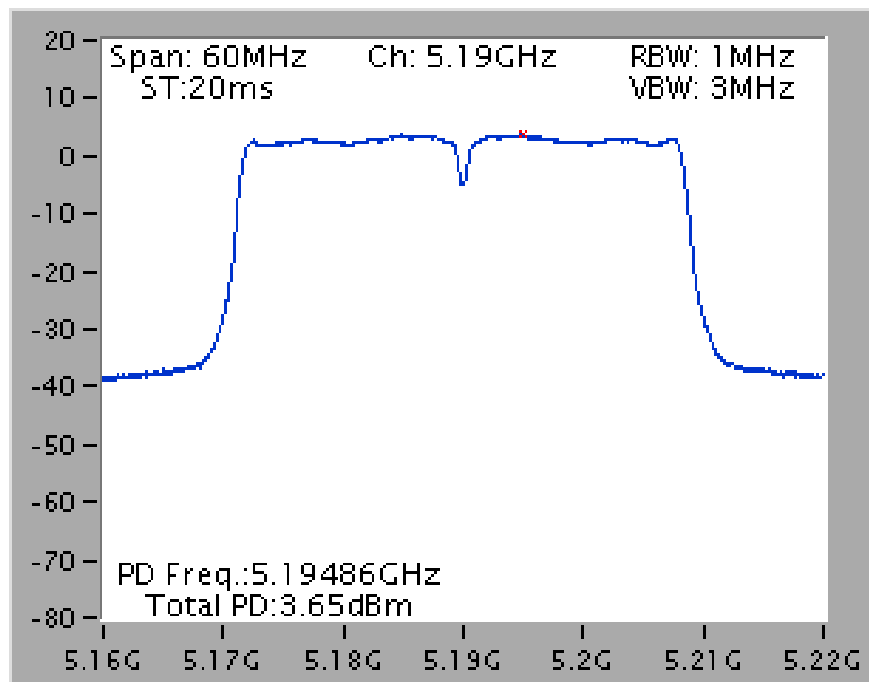


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

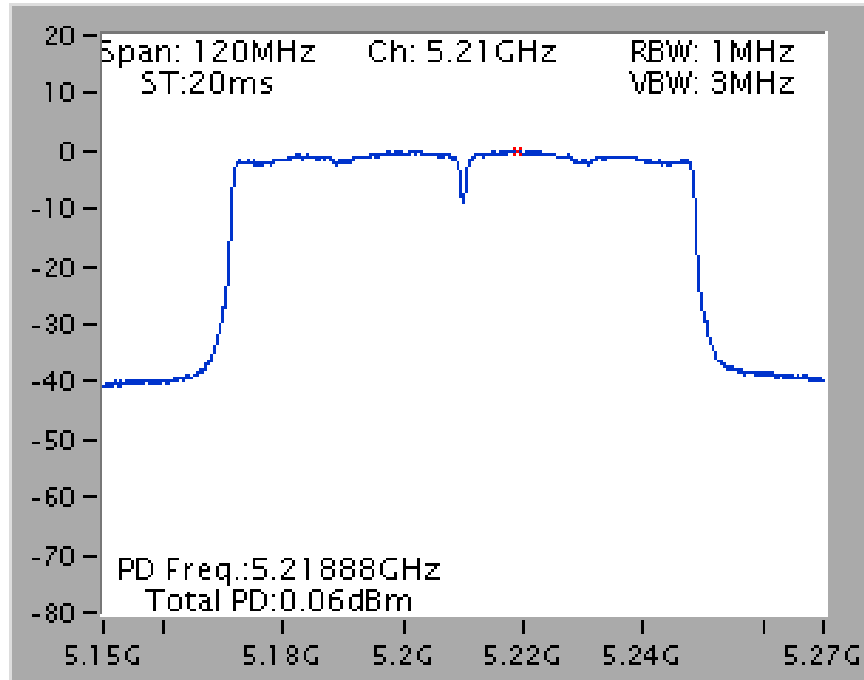
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5190 MHz

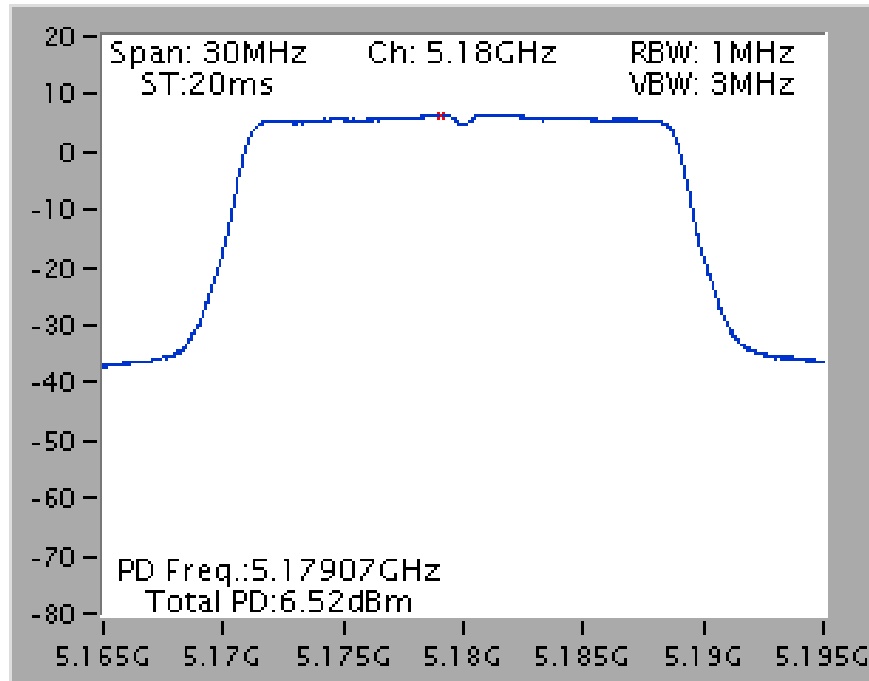


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

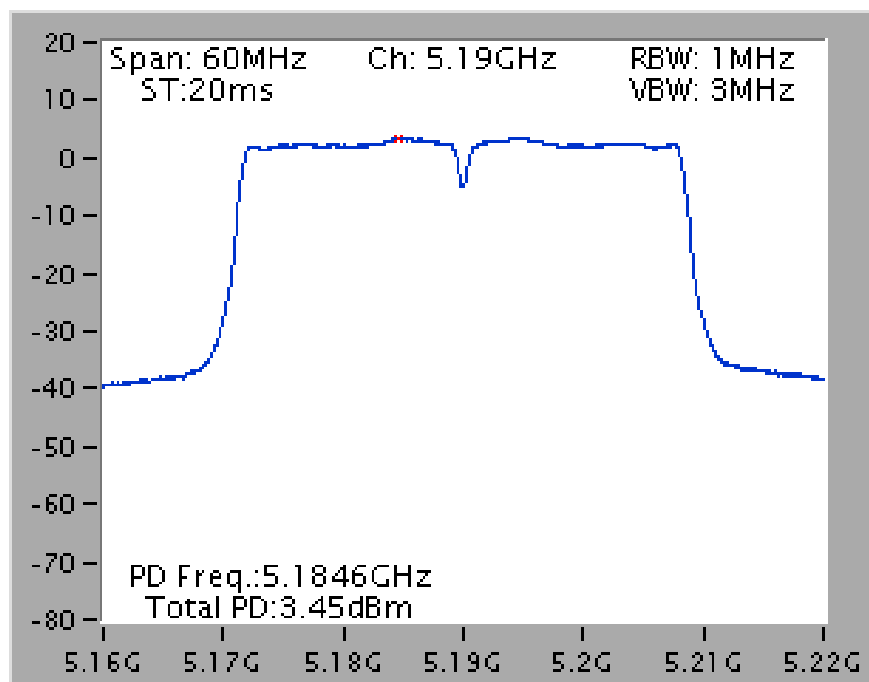


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5180 MHz

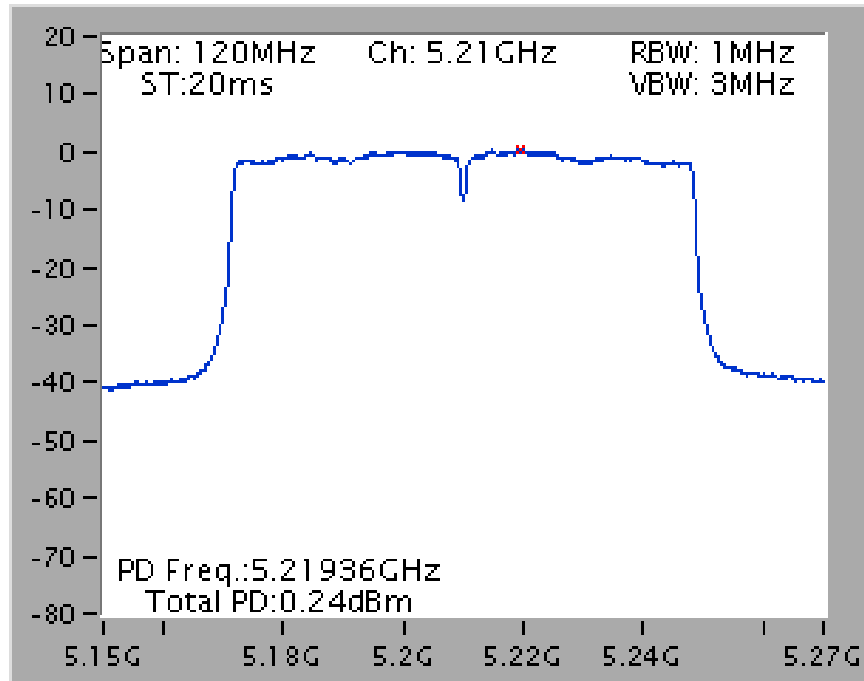


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5190 MHz



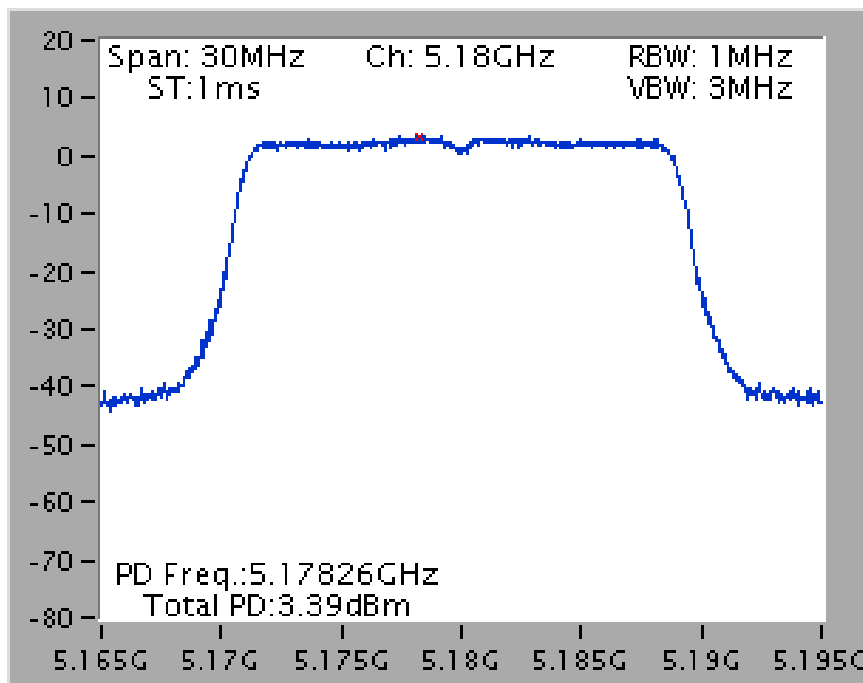


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz

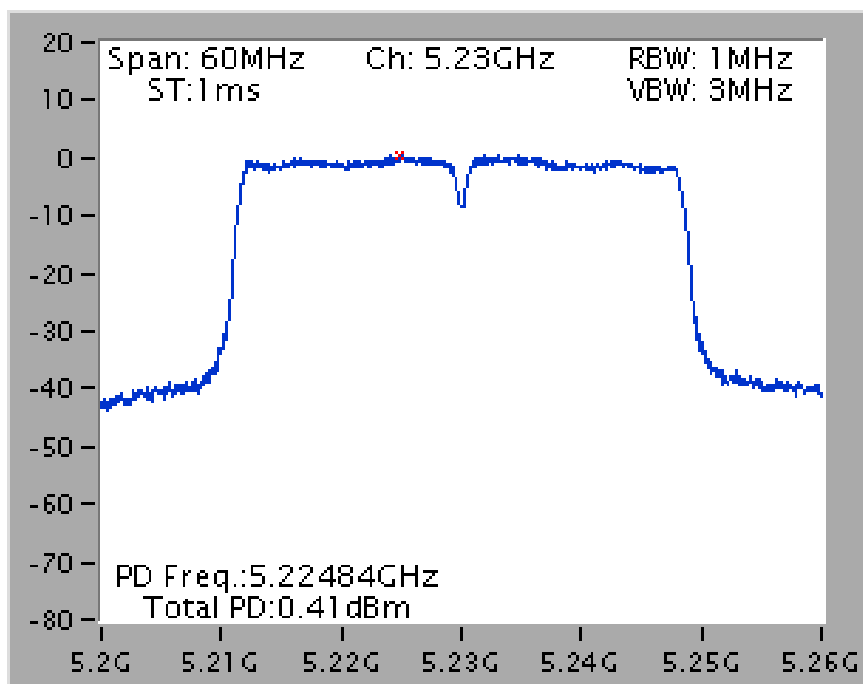


Mode 3 (Ant. 4 Panel antenna / 5.1dBi / 1TX)

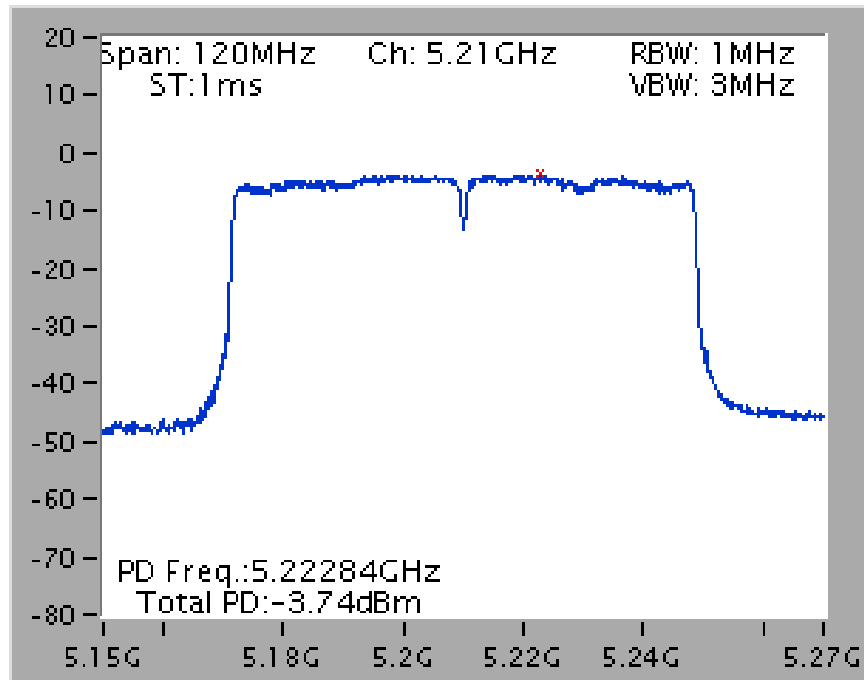
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5230 MHz

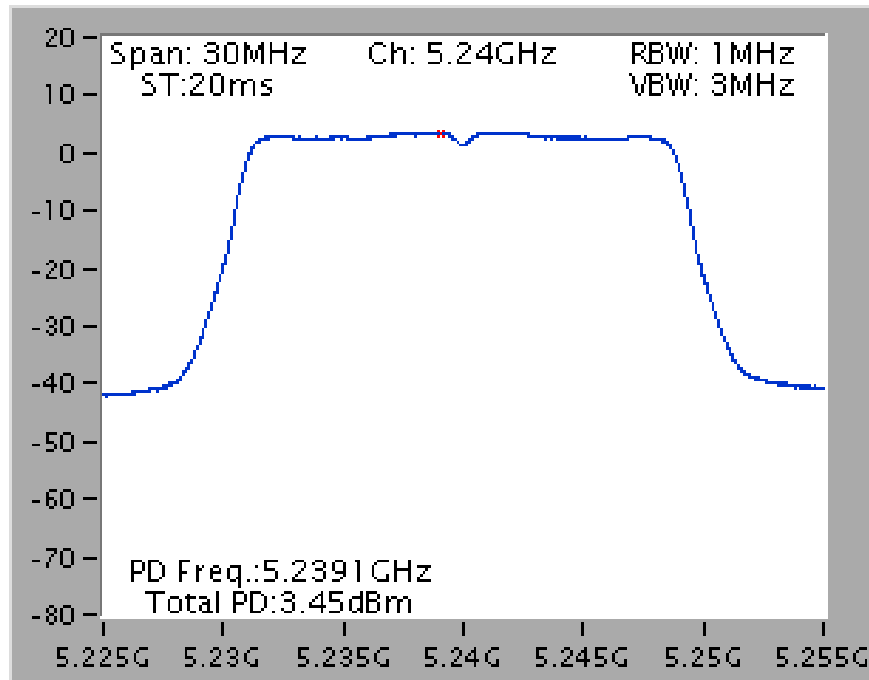


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5210 MHz

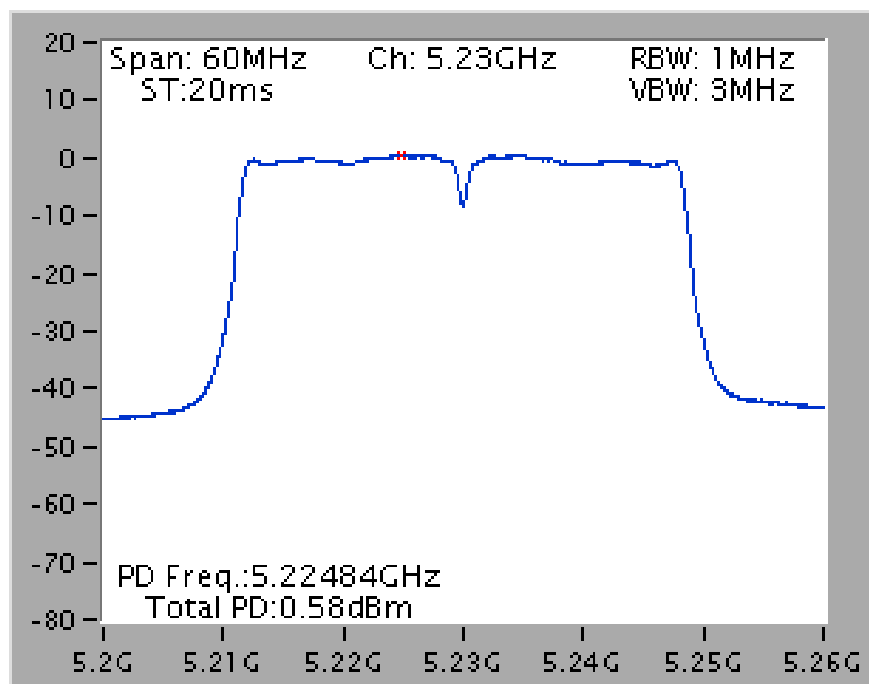


Mode 3 (Ant. 4 Panel antenna / 5.1dBi / 2TX)

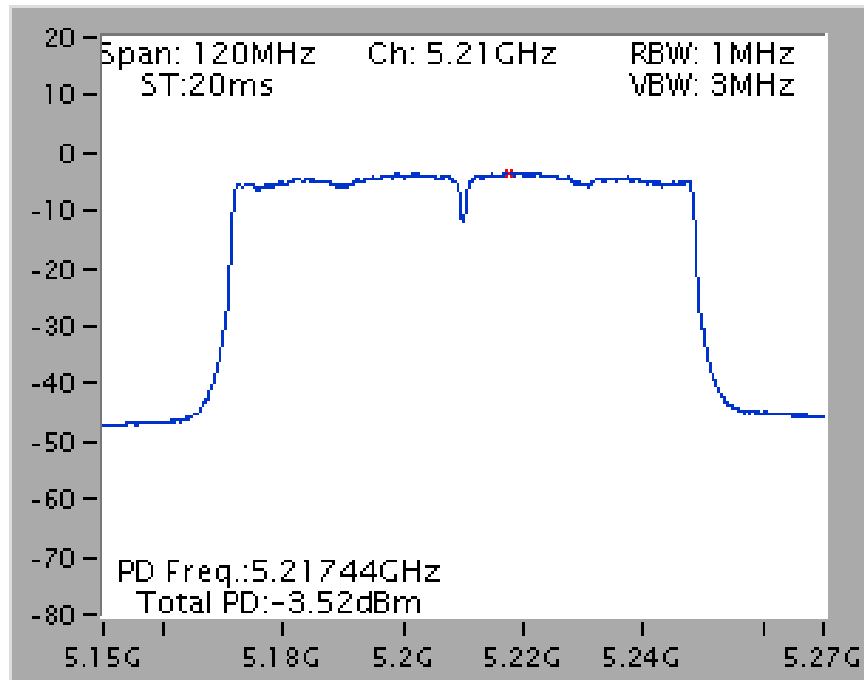
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5240 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz

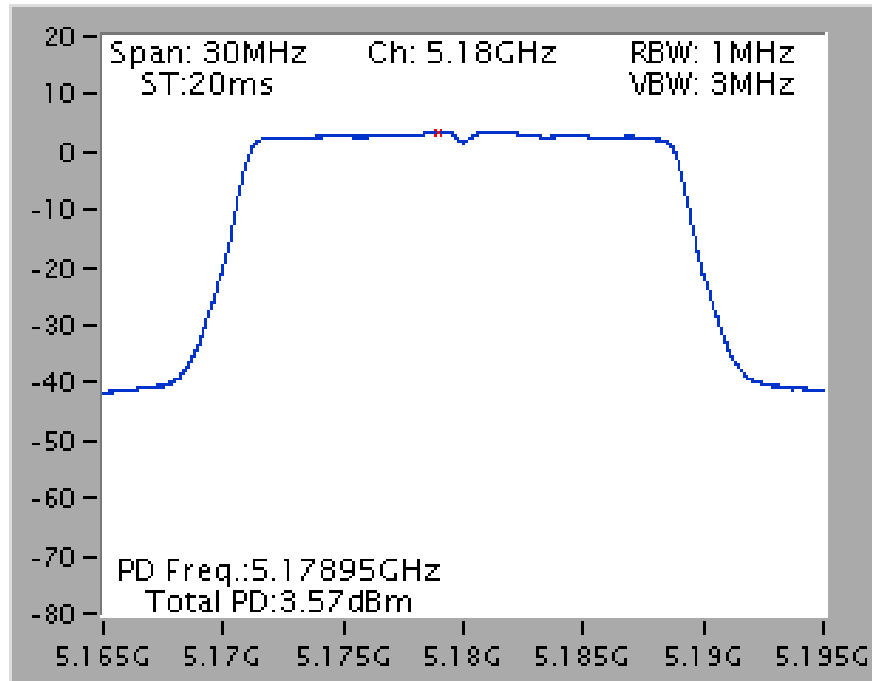


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

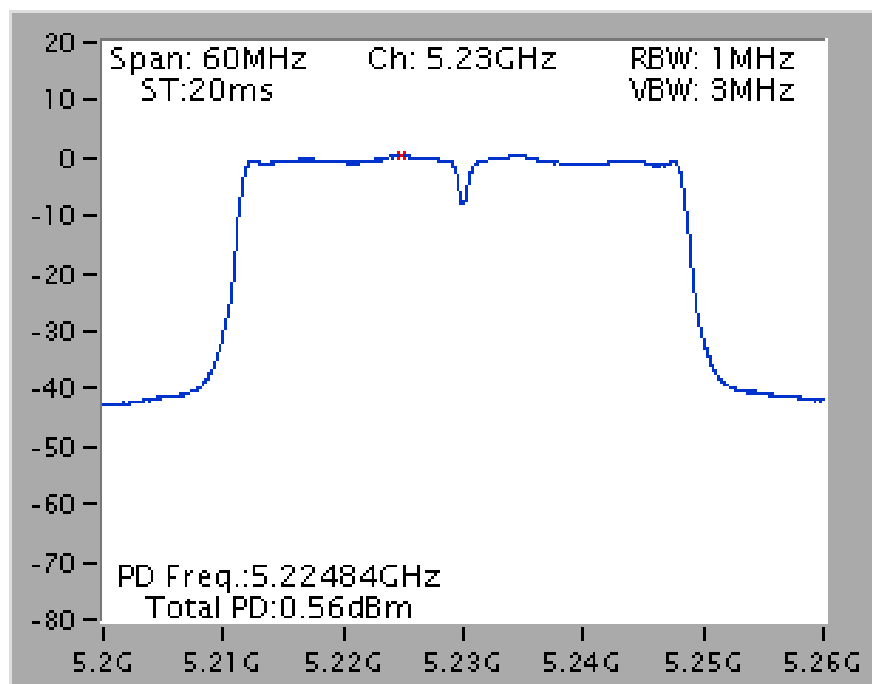


Mode 3 (Ant. 4 Panel antenna / 5.1dBi / 3TX)

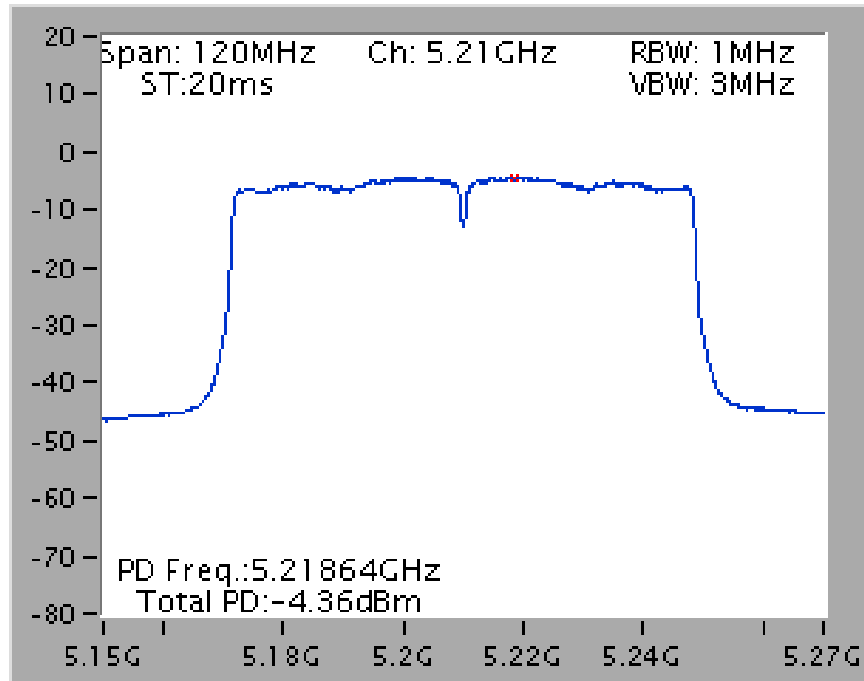
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz



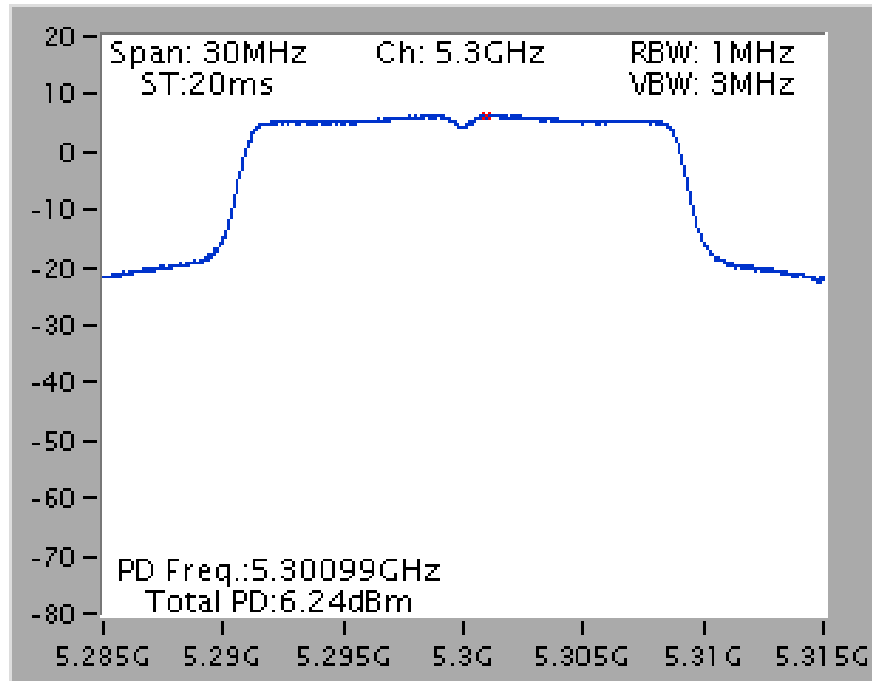
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz



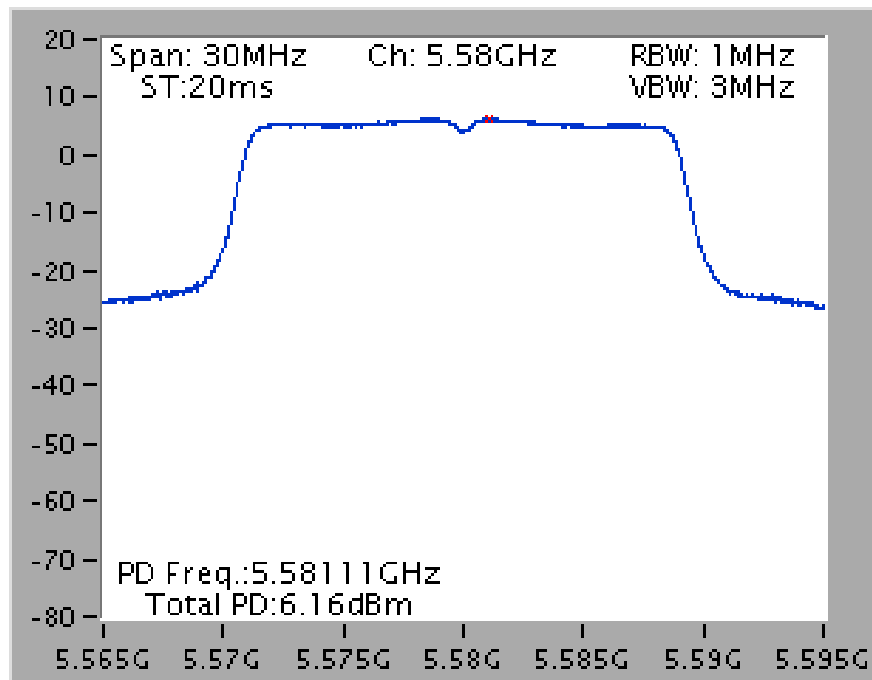
For indoor / outdoor use

Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 1TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5300 MHz

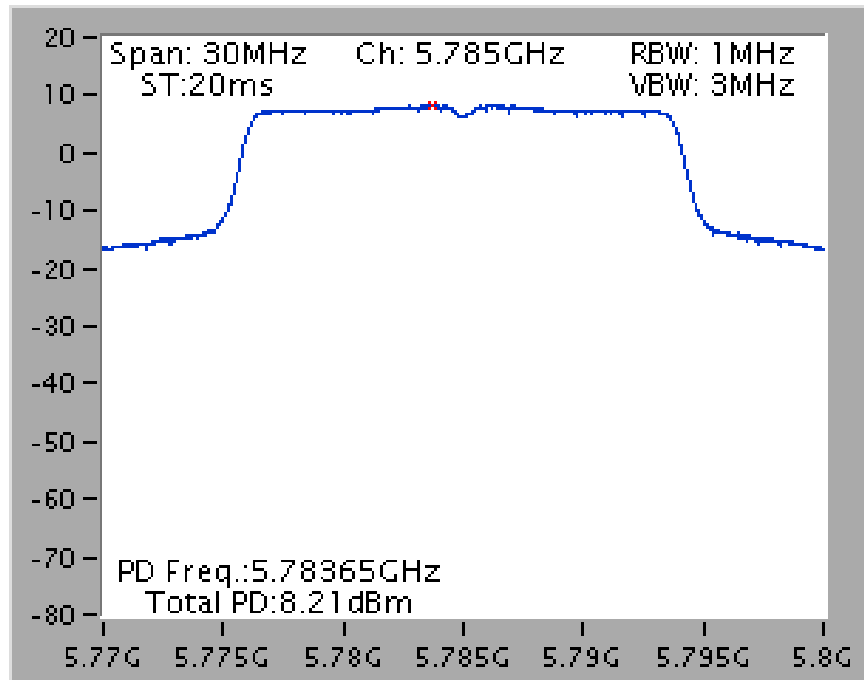


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5580 MHz

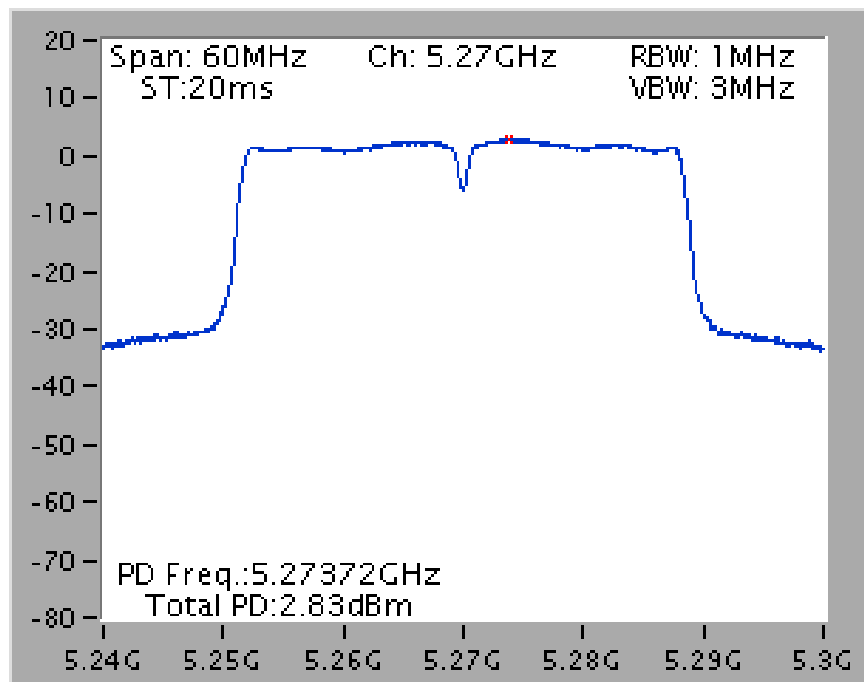




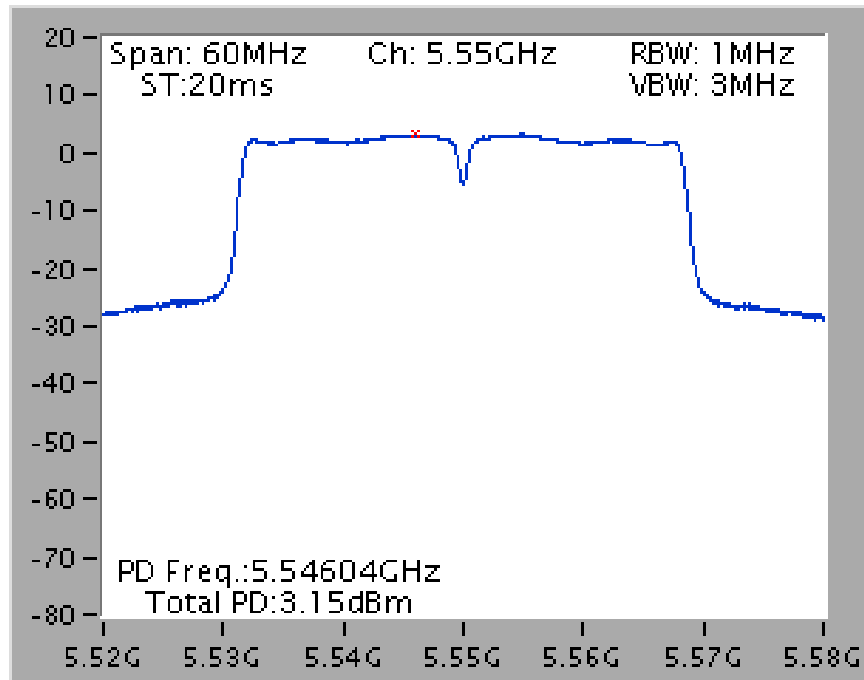
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5785 MHz



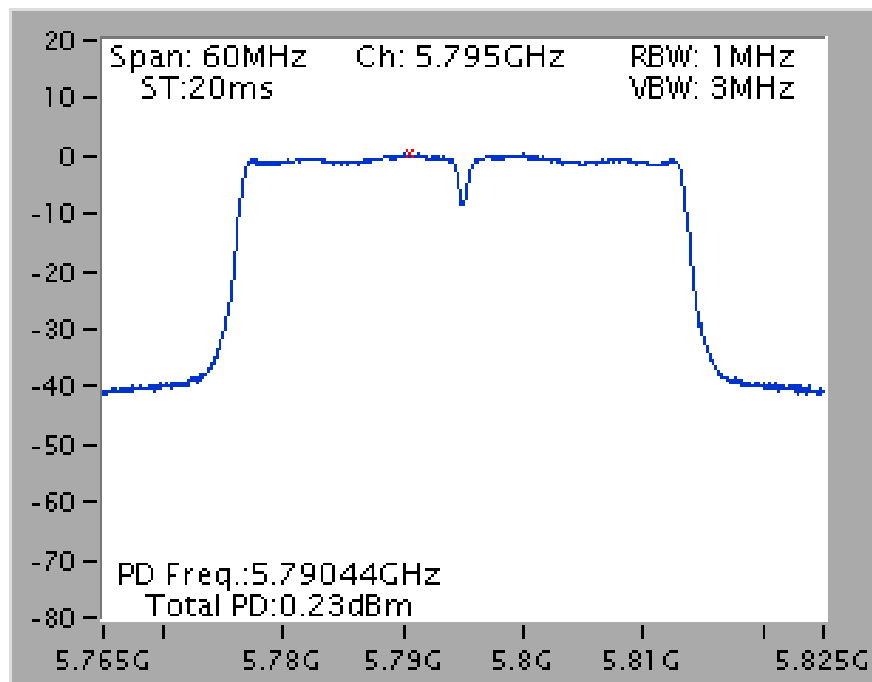
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5270 MHz



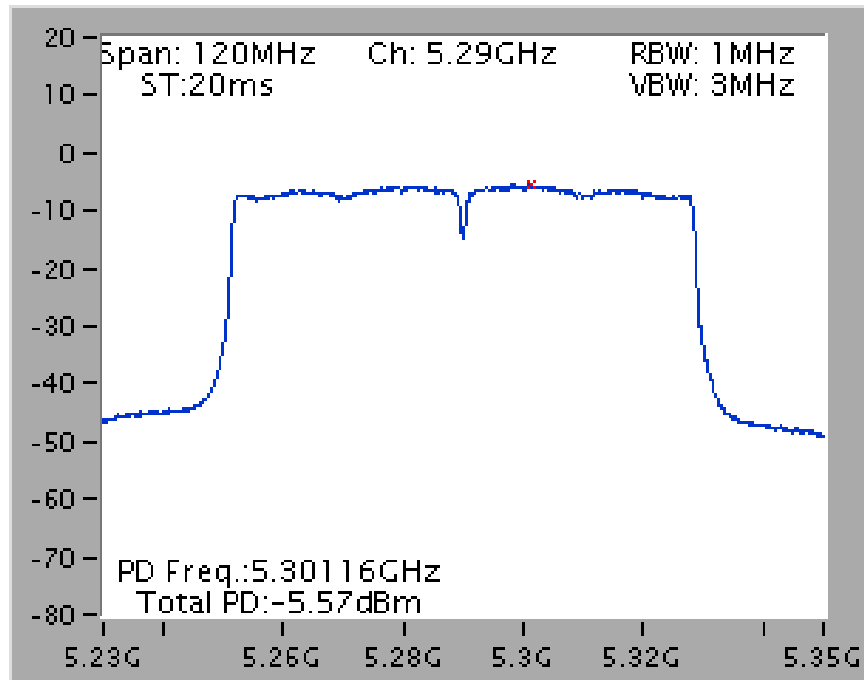
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5550 MHz



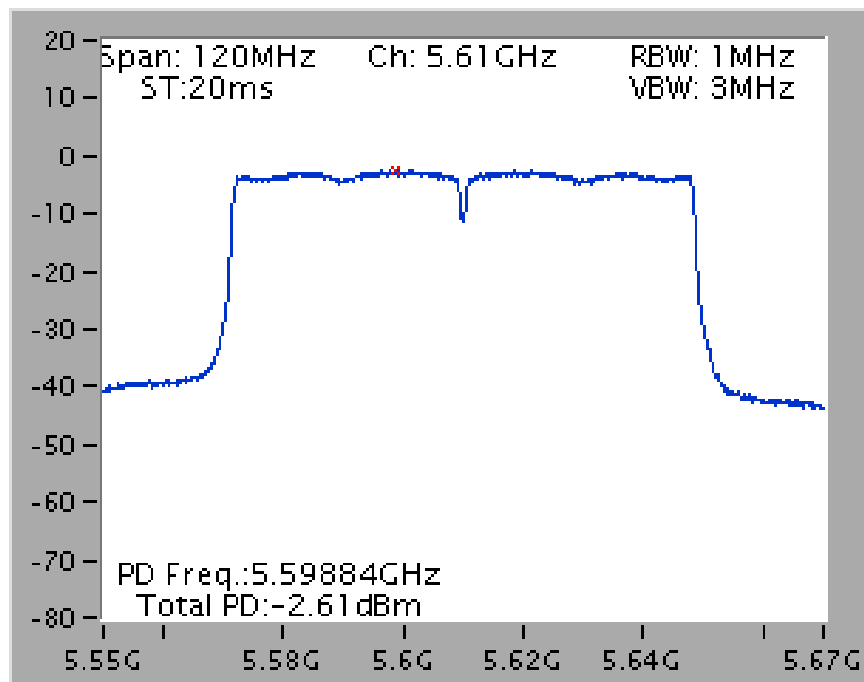
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5795 MHz



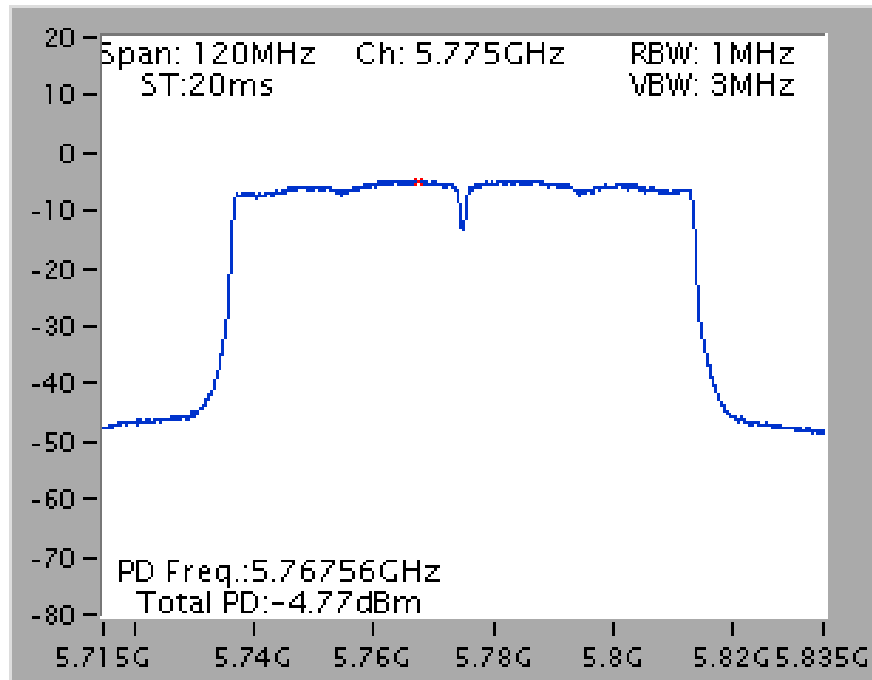
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5610 MHz

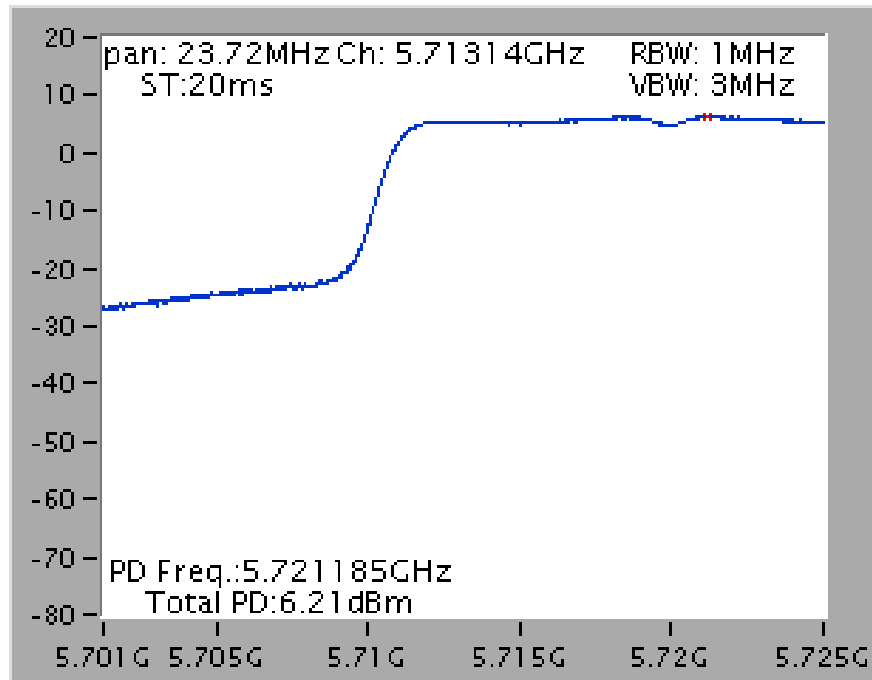


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5775 MHz

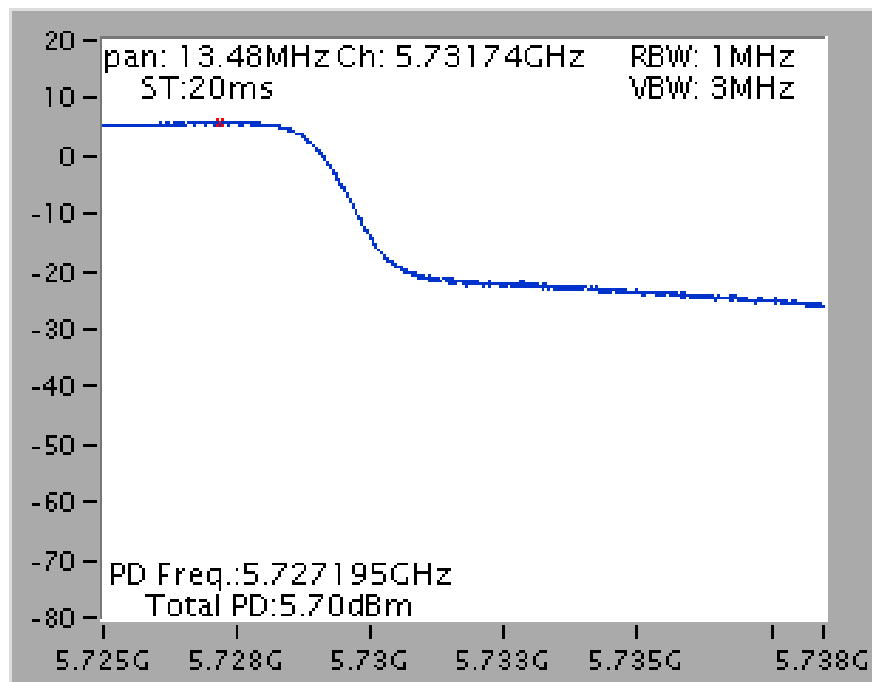


### Straddle Channel

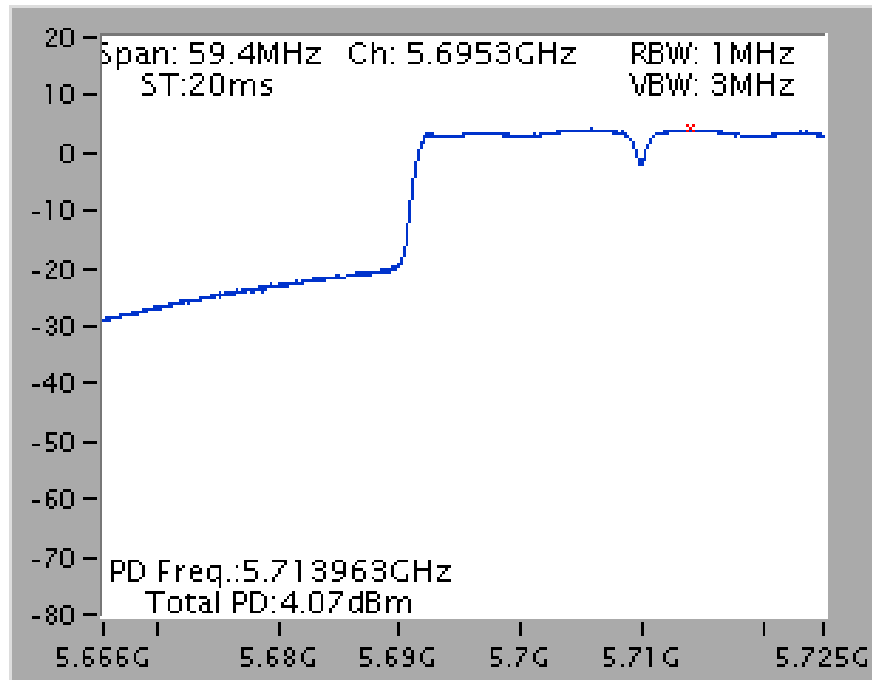
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 2C)



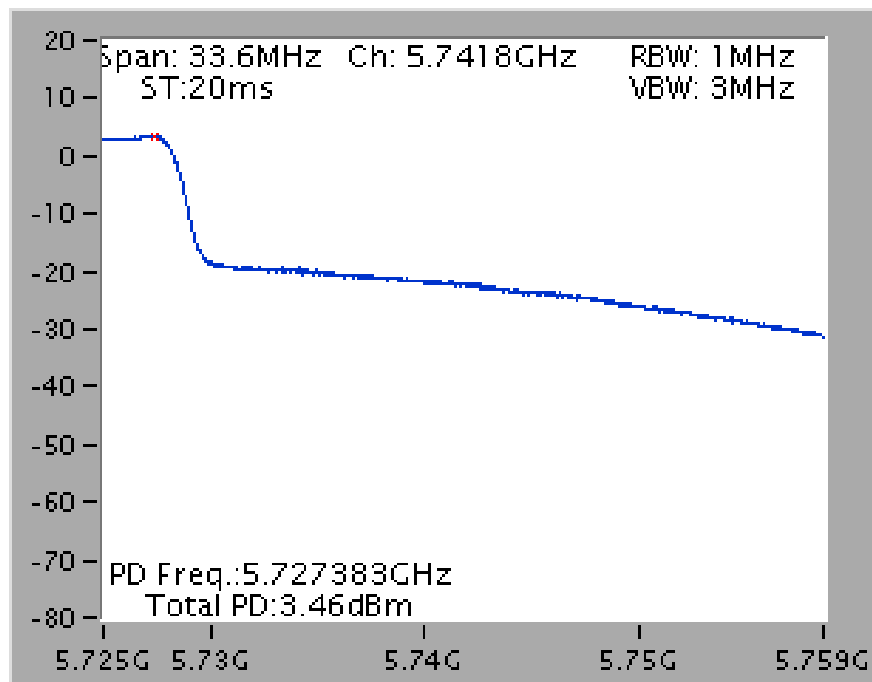
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



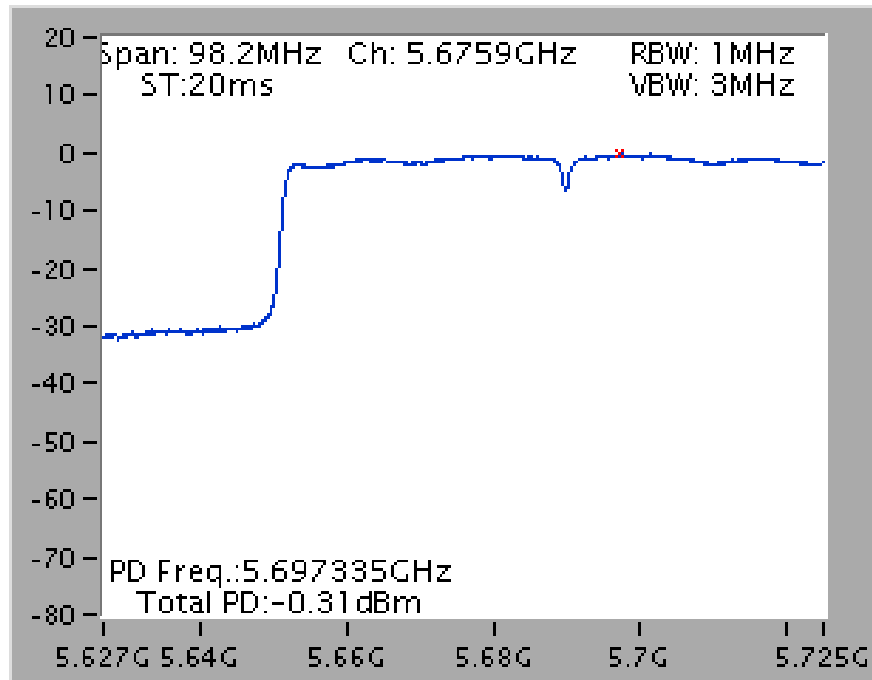
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)



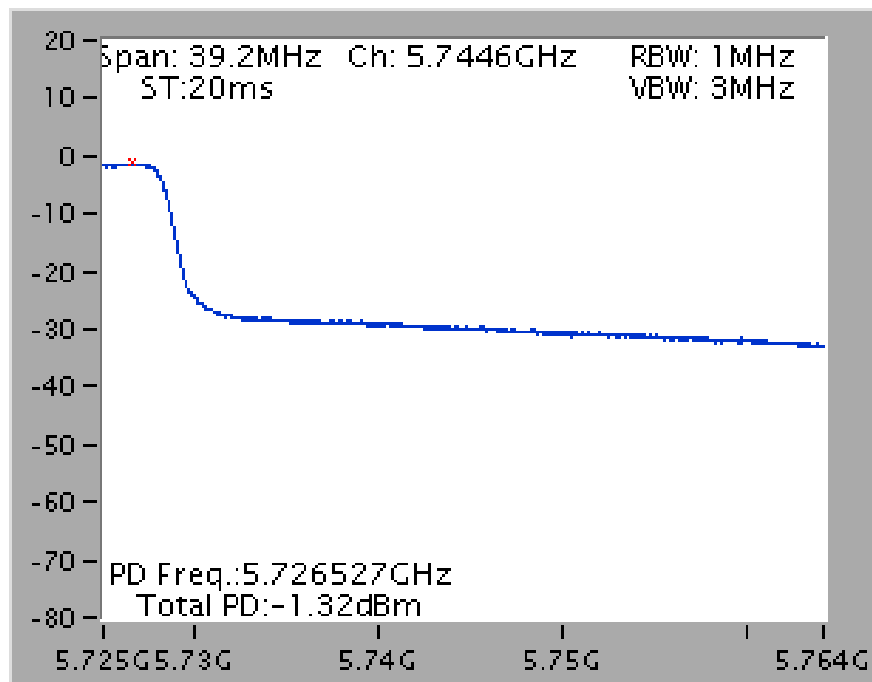
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)

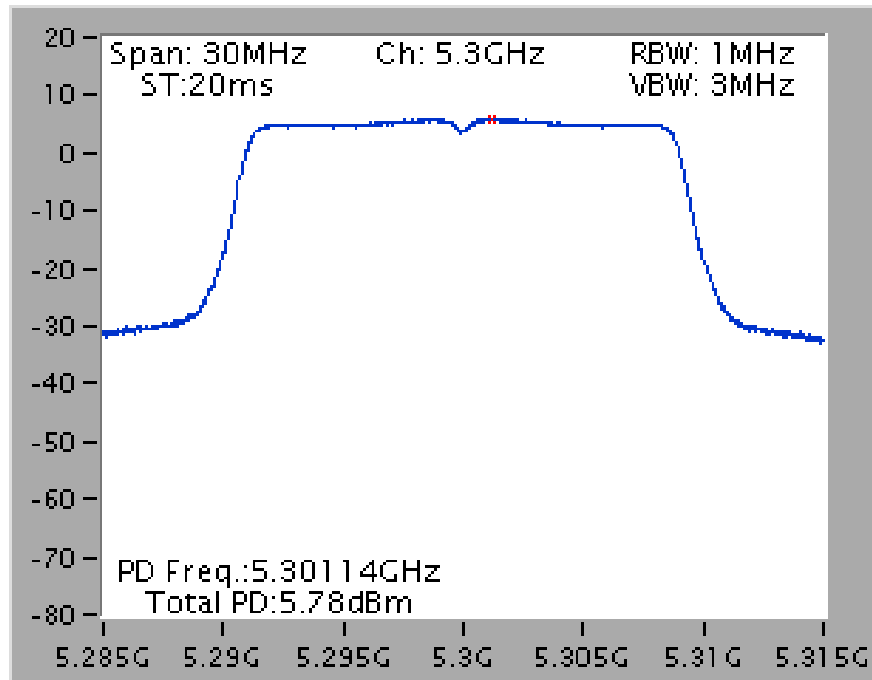


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)

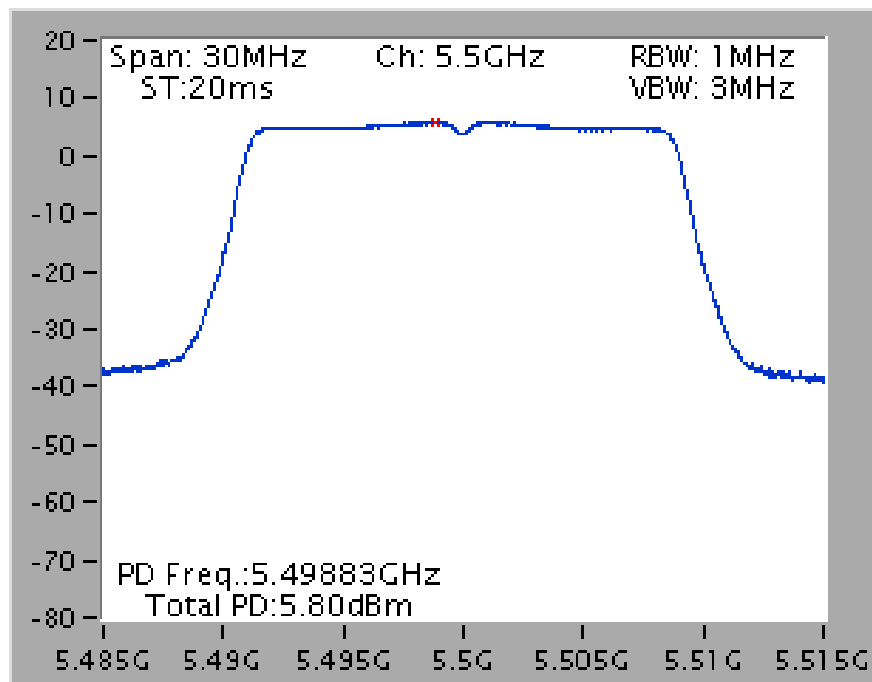


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)

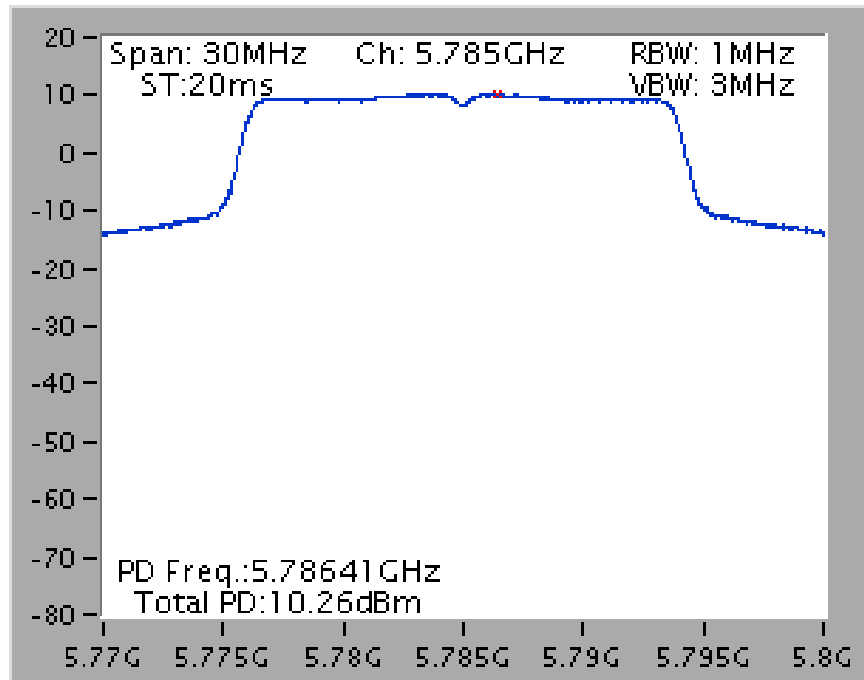
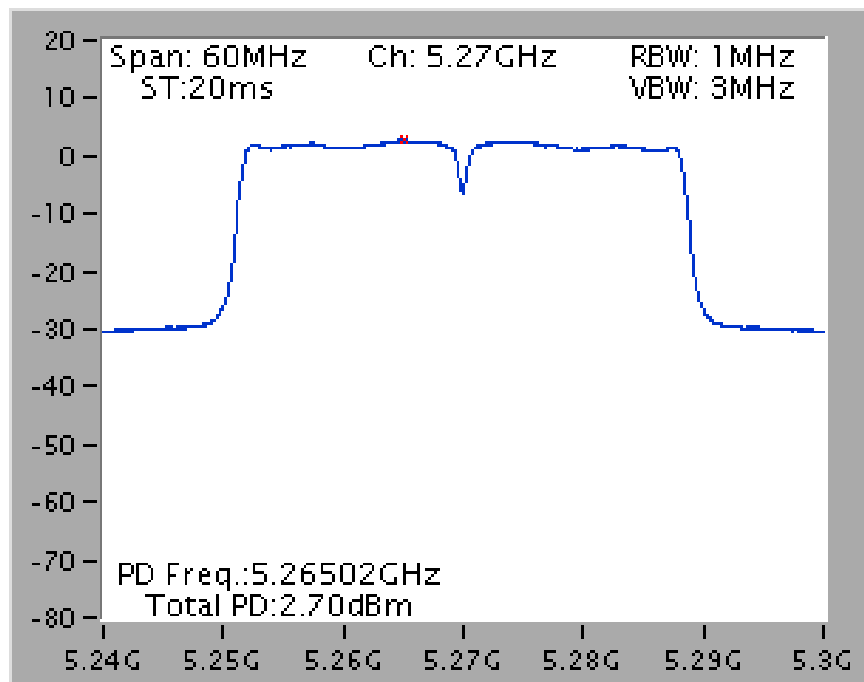
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5300 MHz



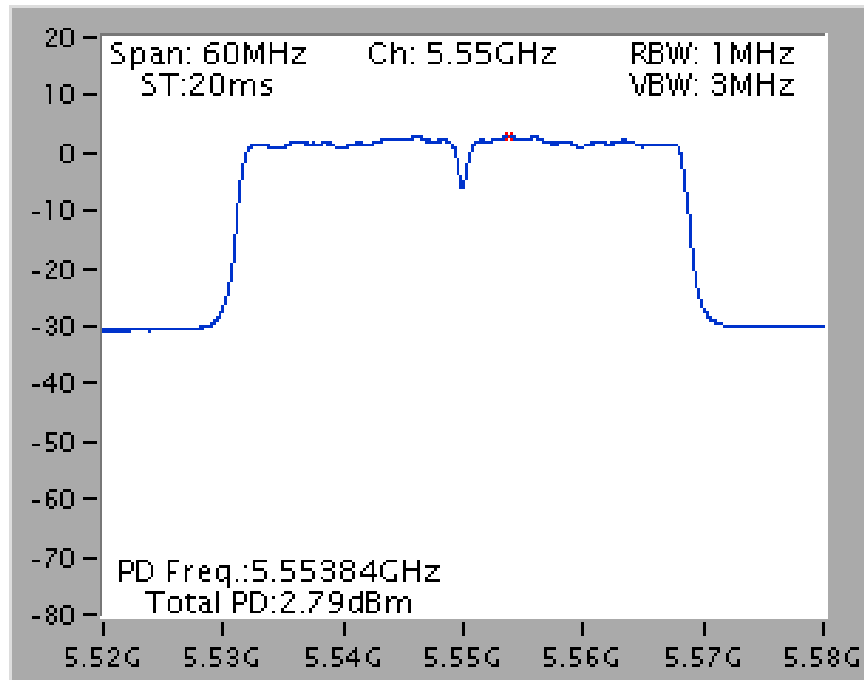
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5500 MHz



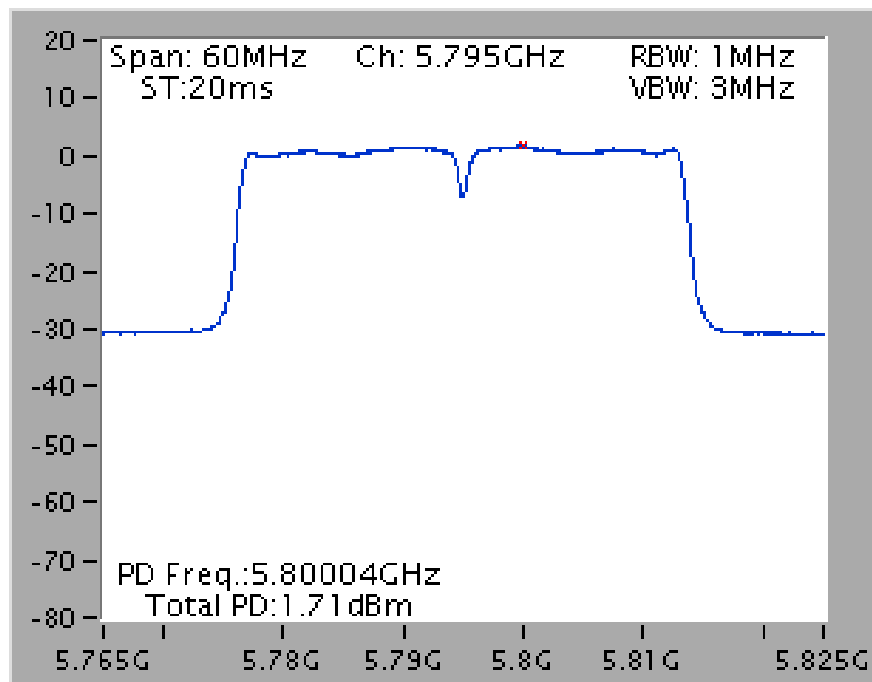


**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz****Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5270 MHz**

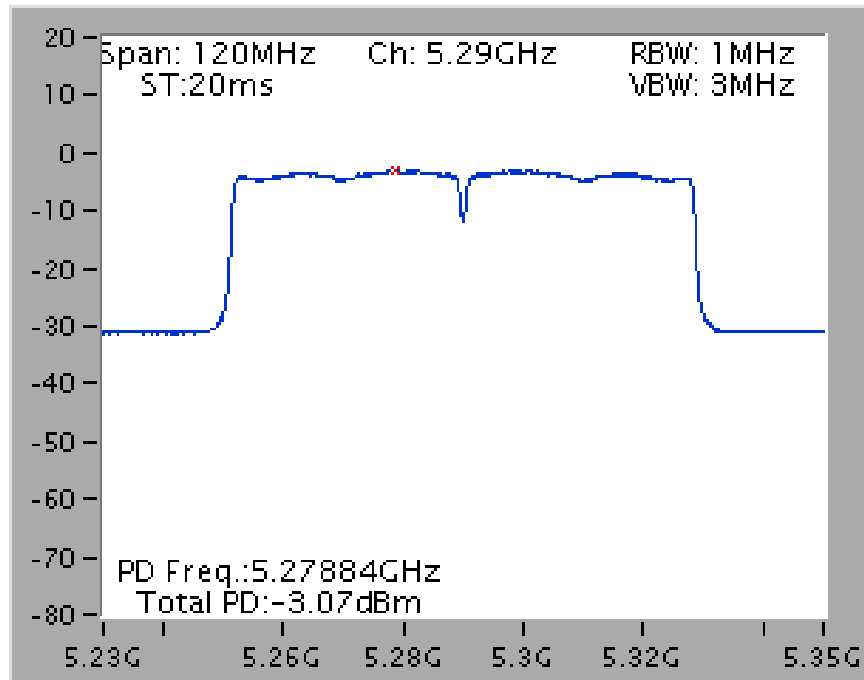
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5550 MHz



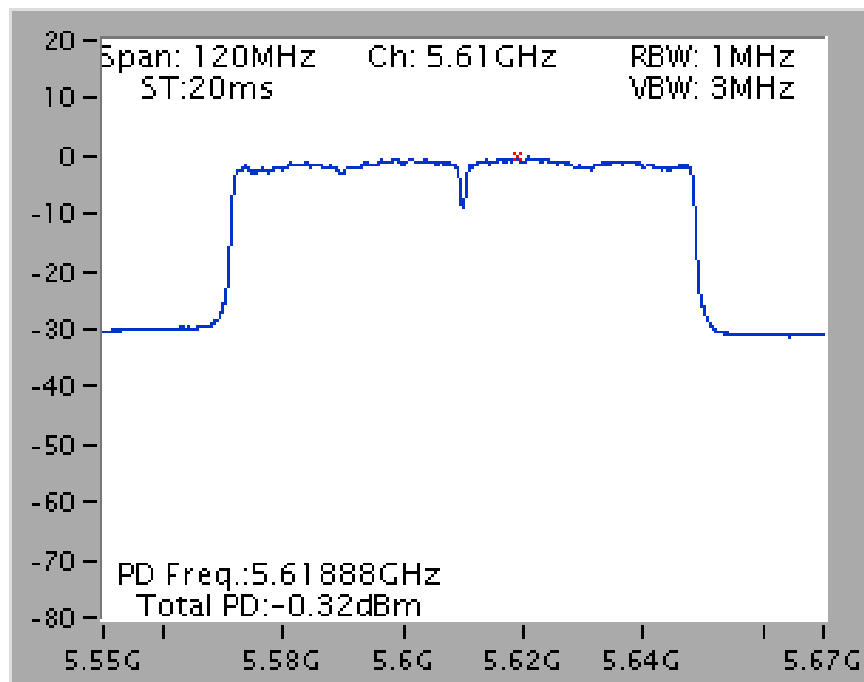
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



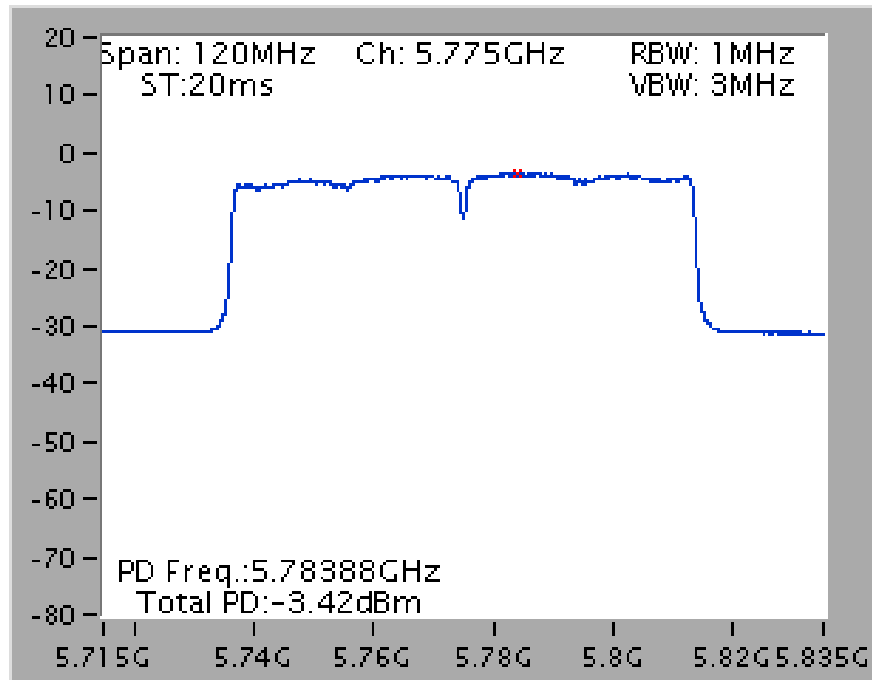
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5610 MHz

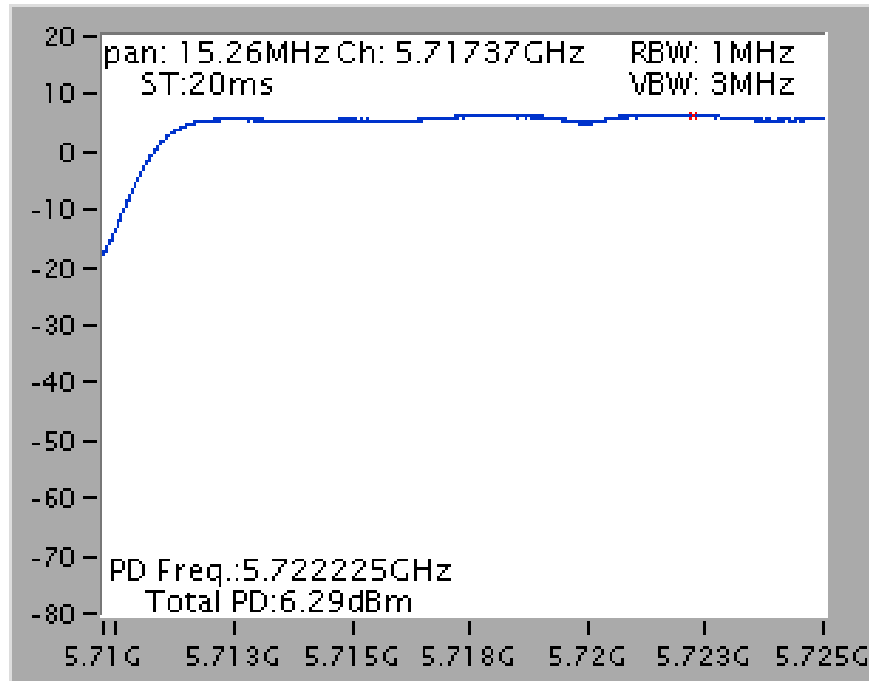


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

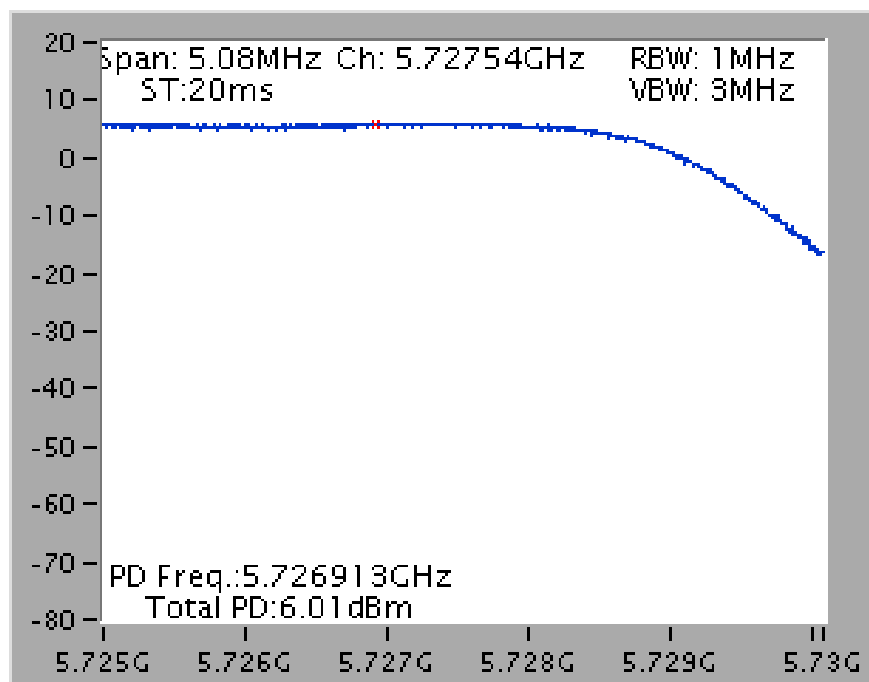


### Straddle Channel

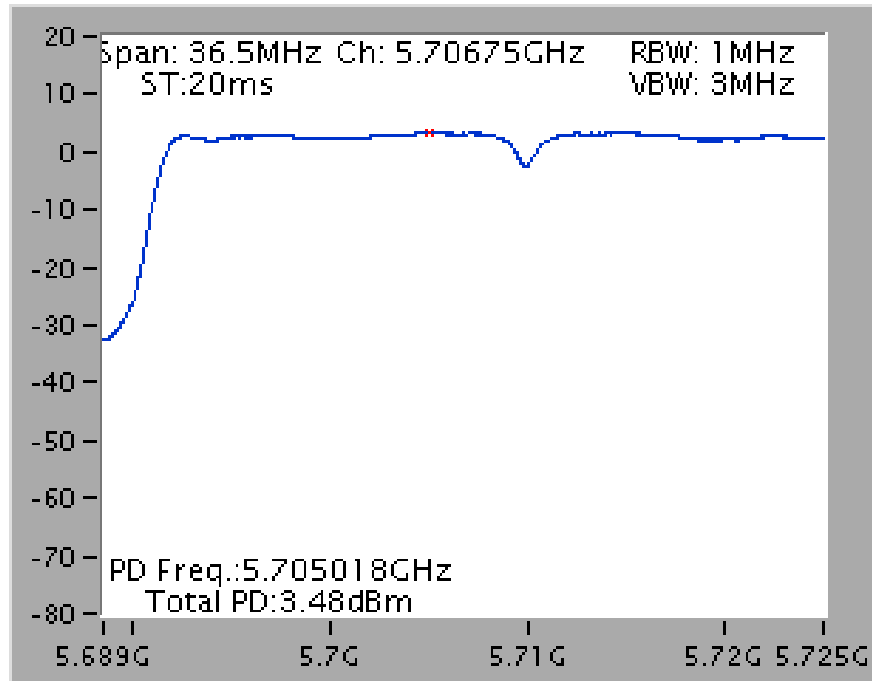
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 2C)



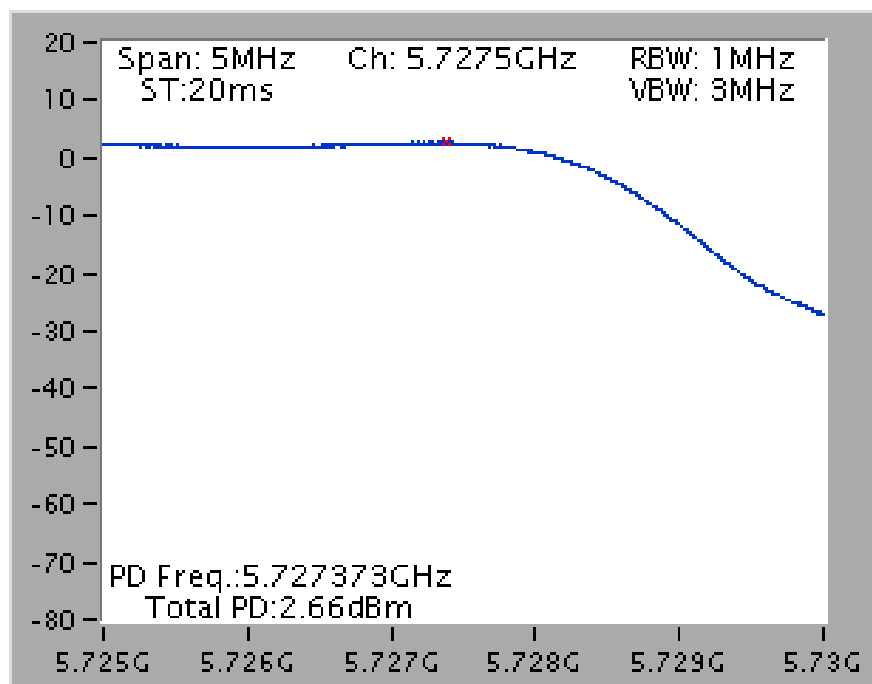
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 3)



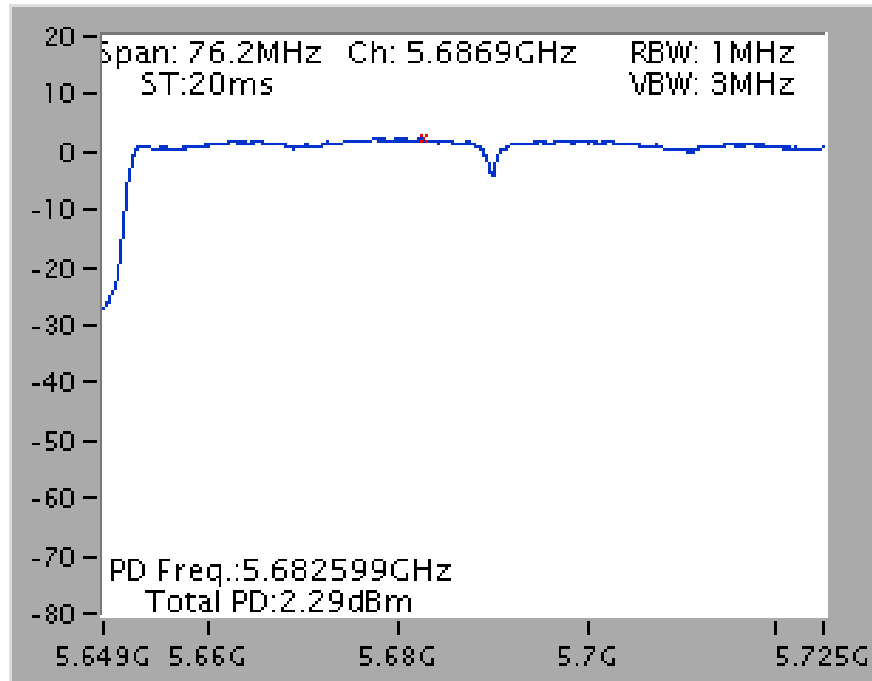
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 2C)



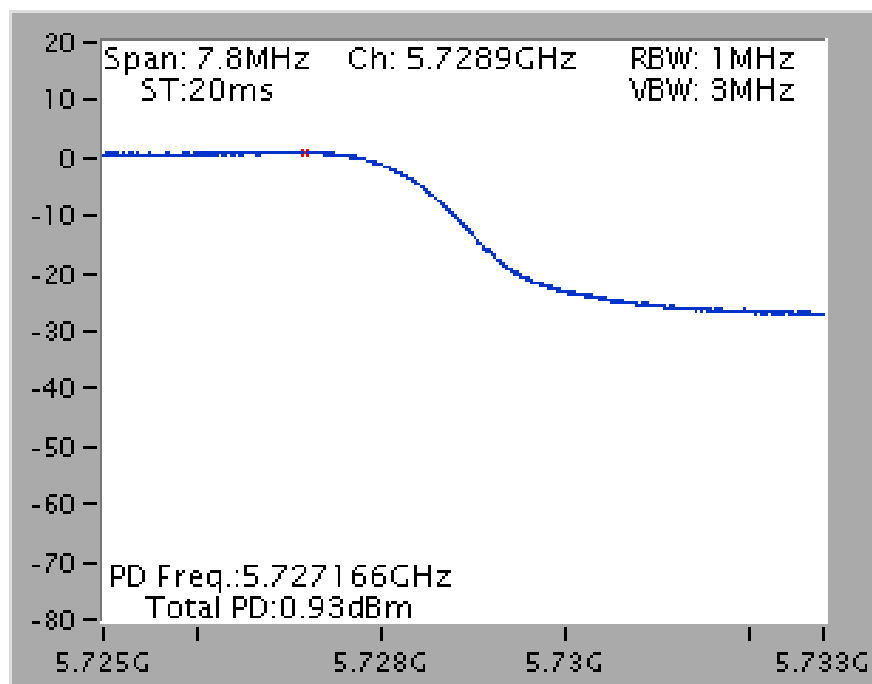
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 2C)

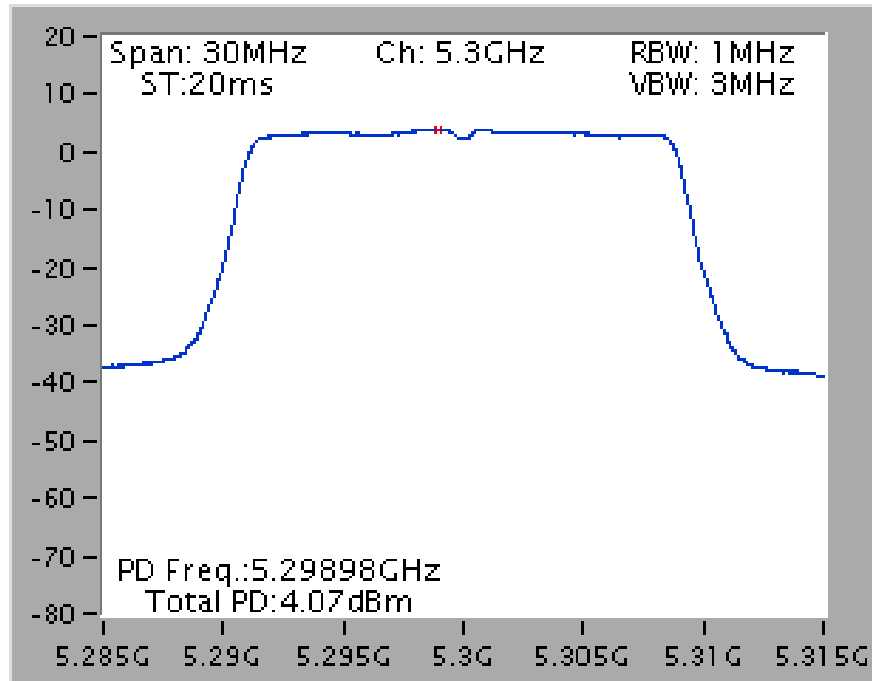


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 3)

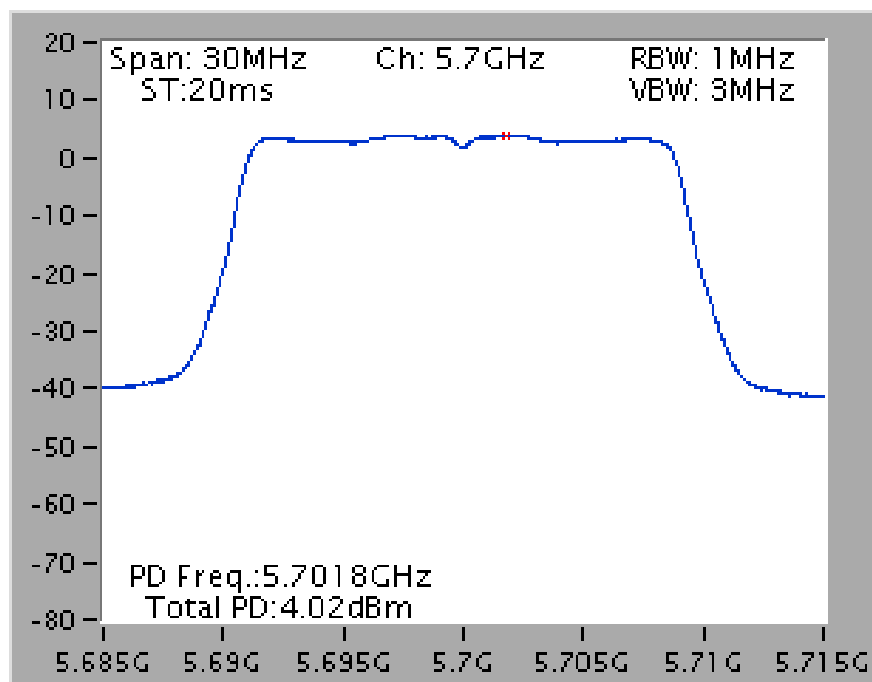


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5300 MHz

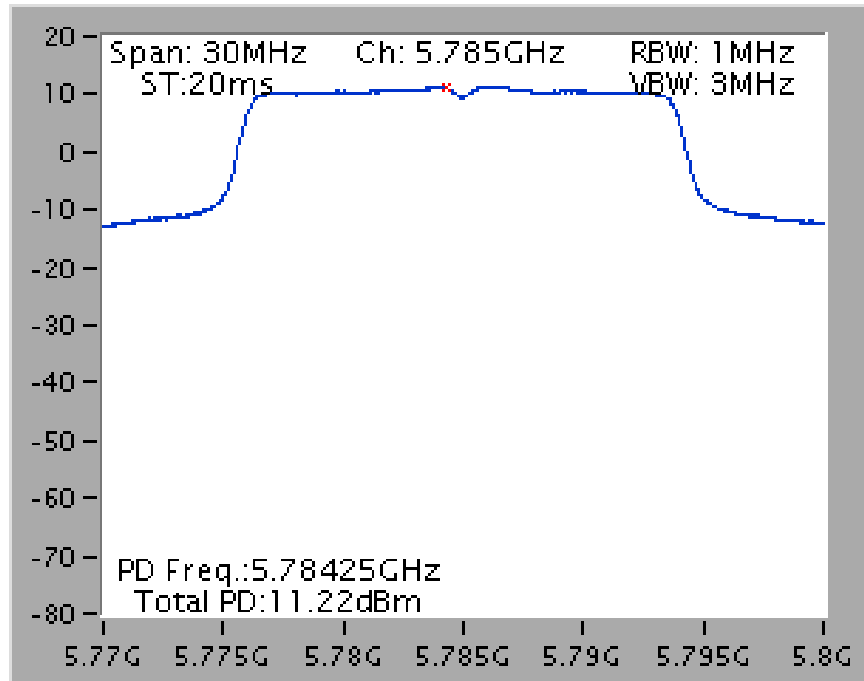


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5700 MHz

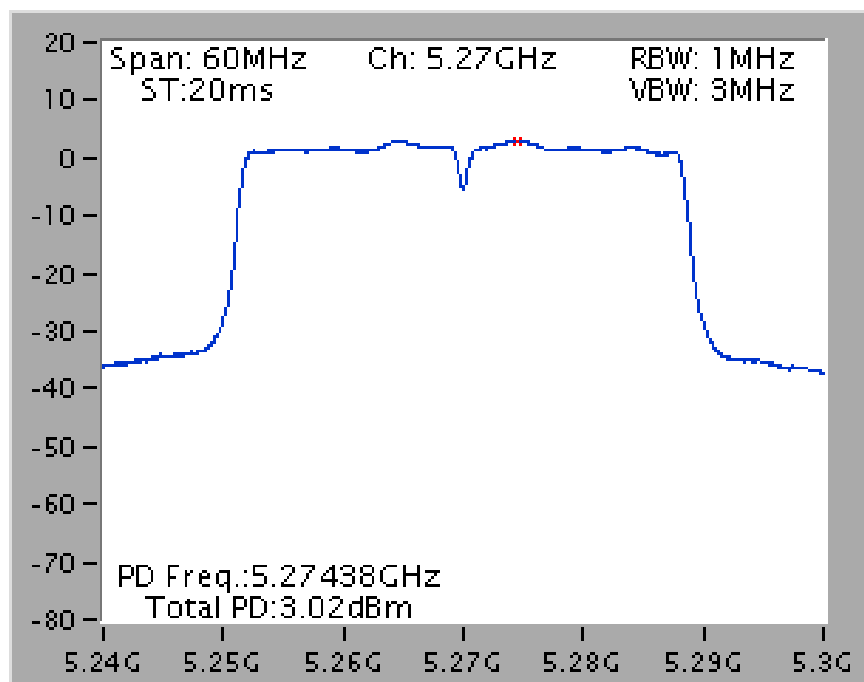




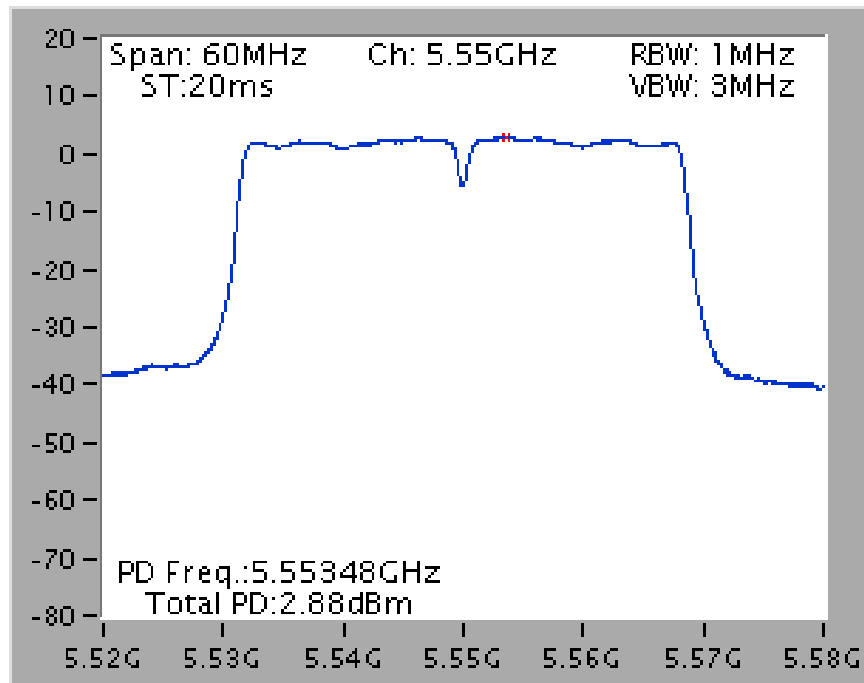
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5785 MHz**



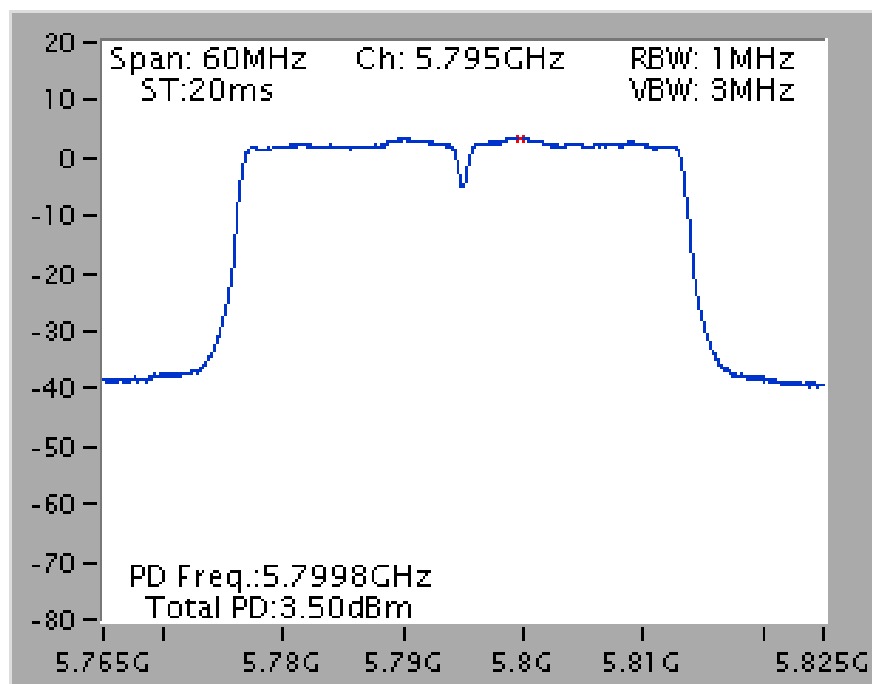
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5270 MHz**



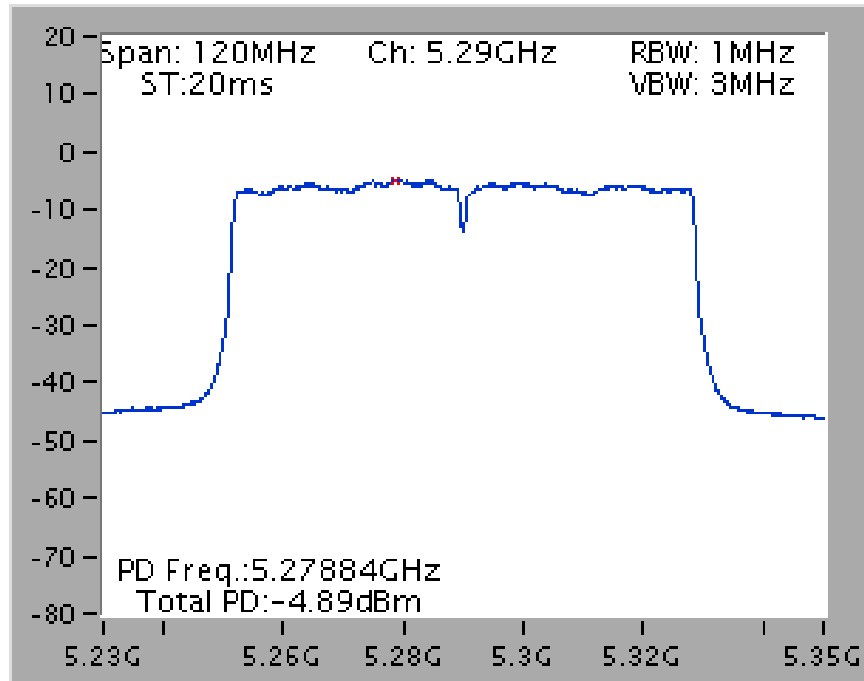
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5550 MHz



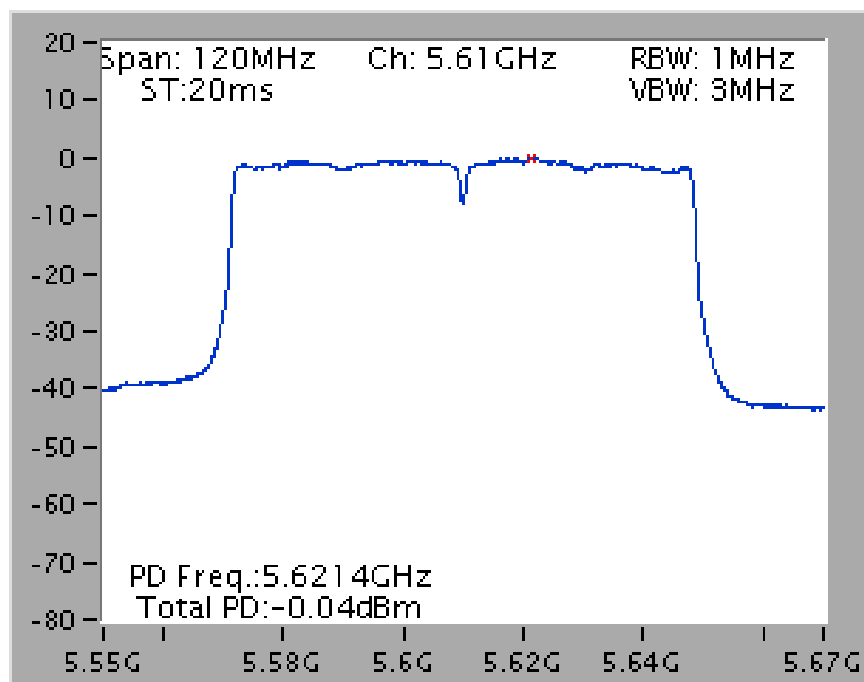
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5795 MHz



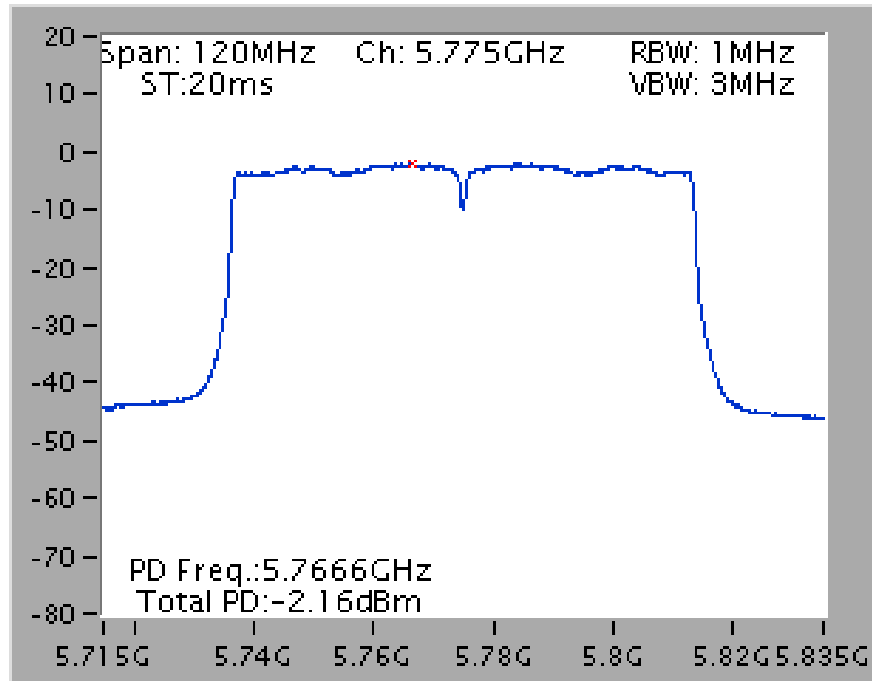
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5610 MHz

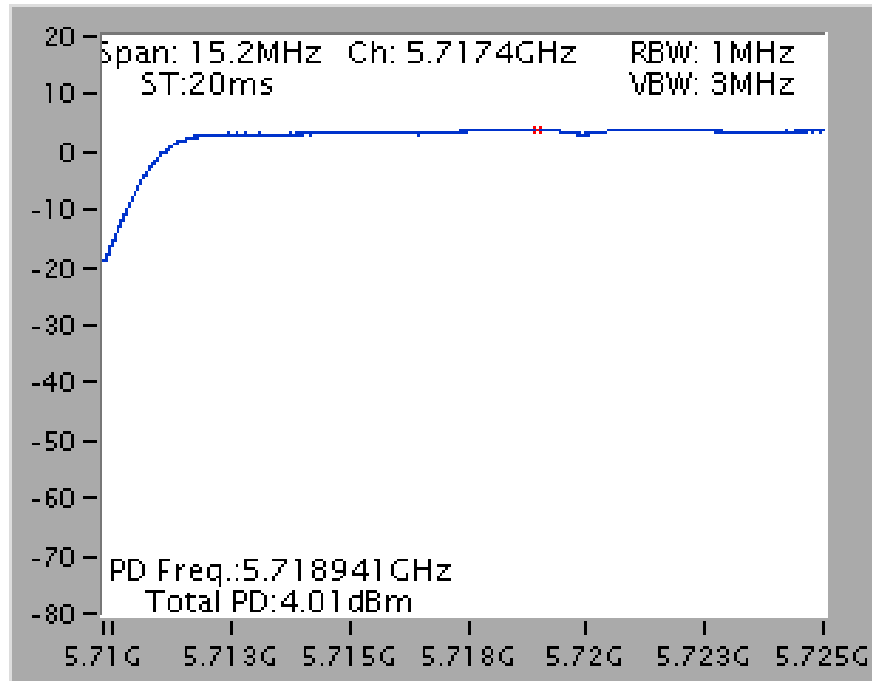


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5775 MHz

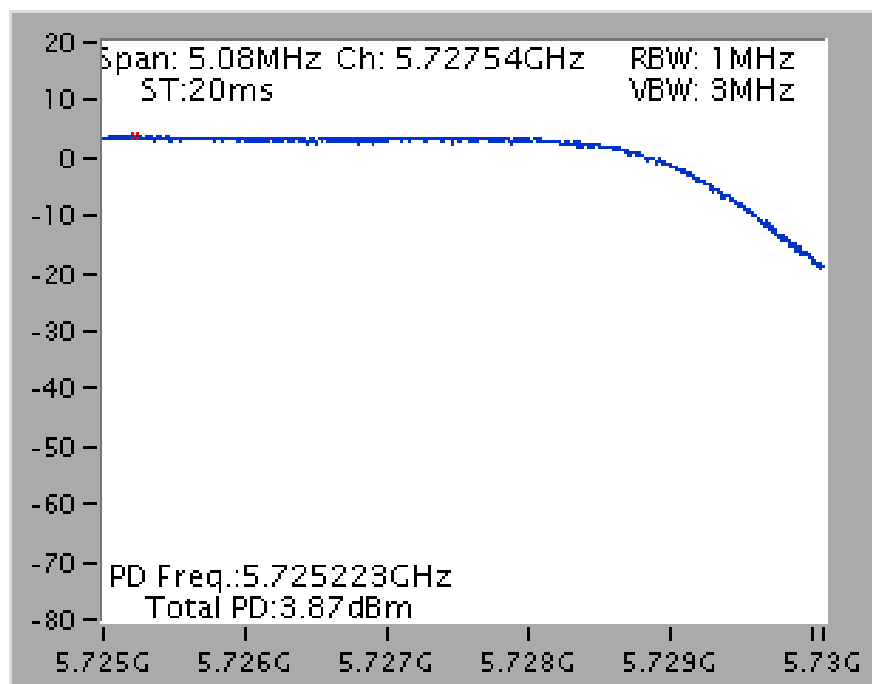


**Straddle Channel**

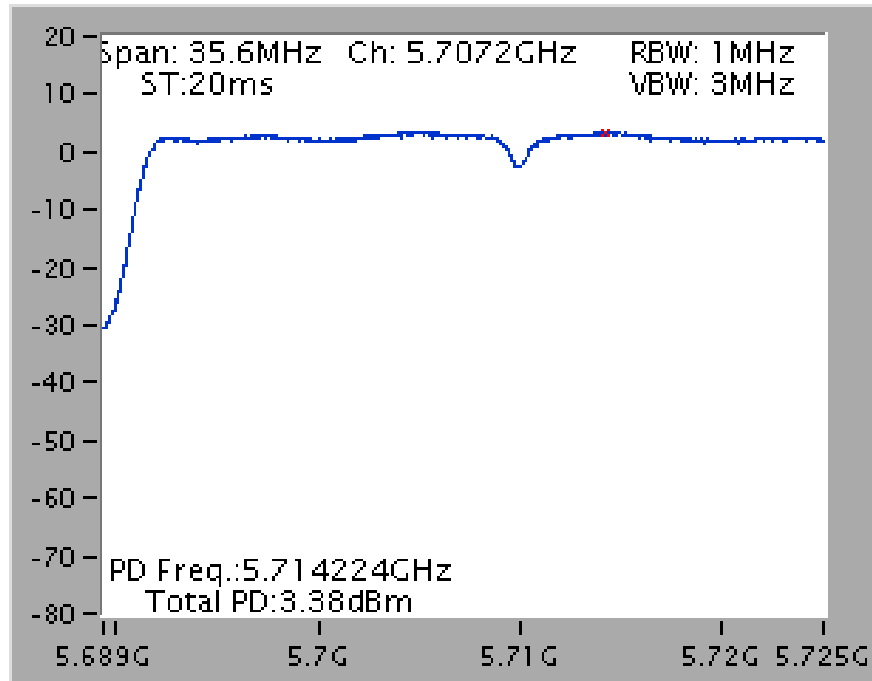
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 2C)**



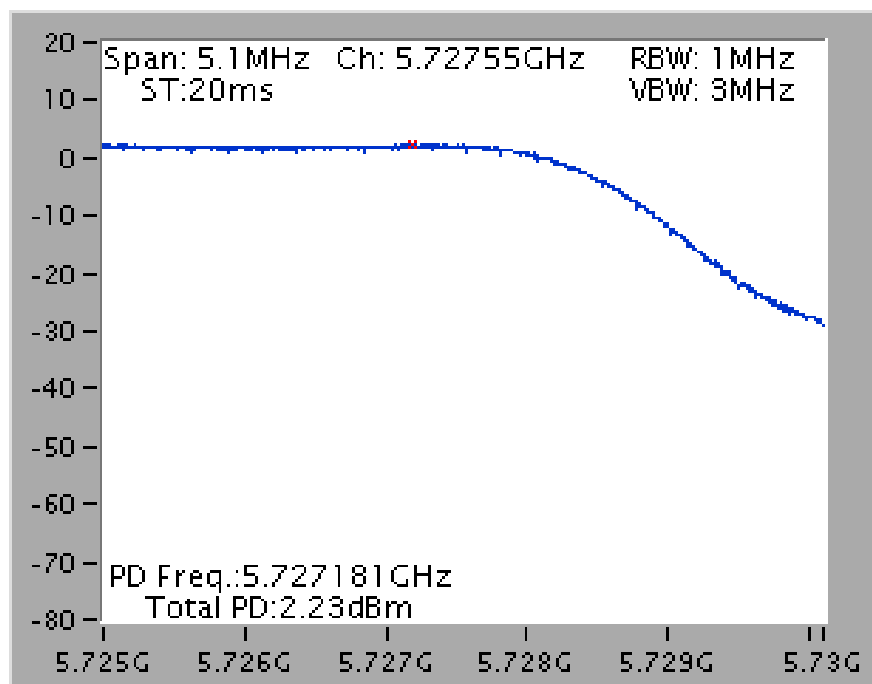
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 3)**



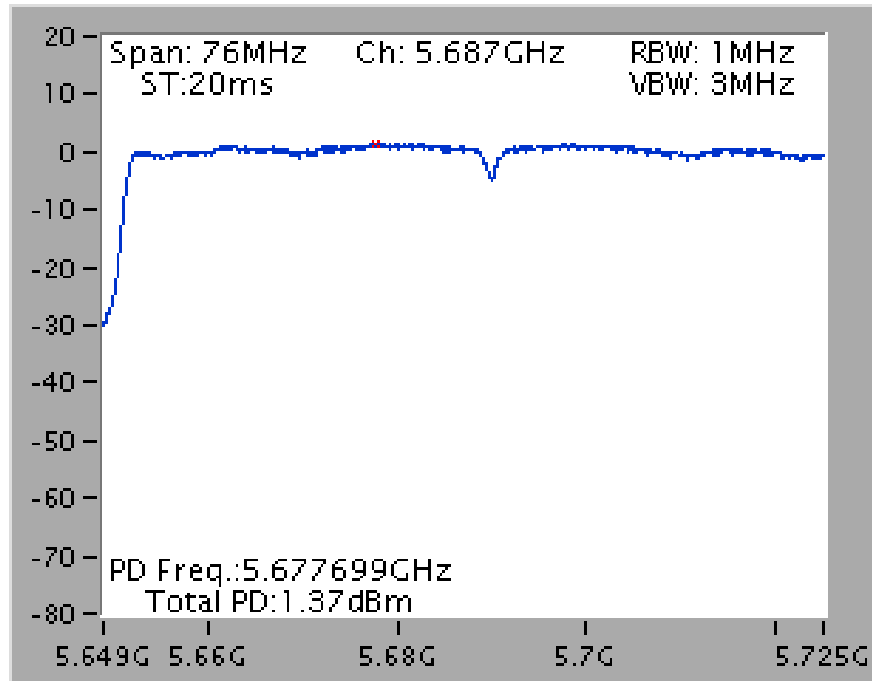
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5710 MHz (UNII 2C)**



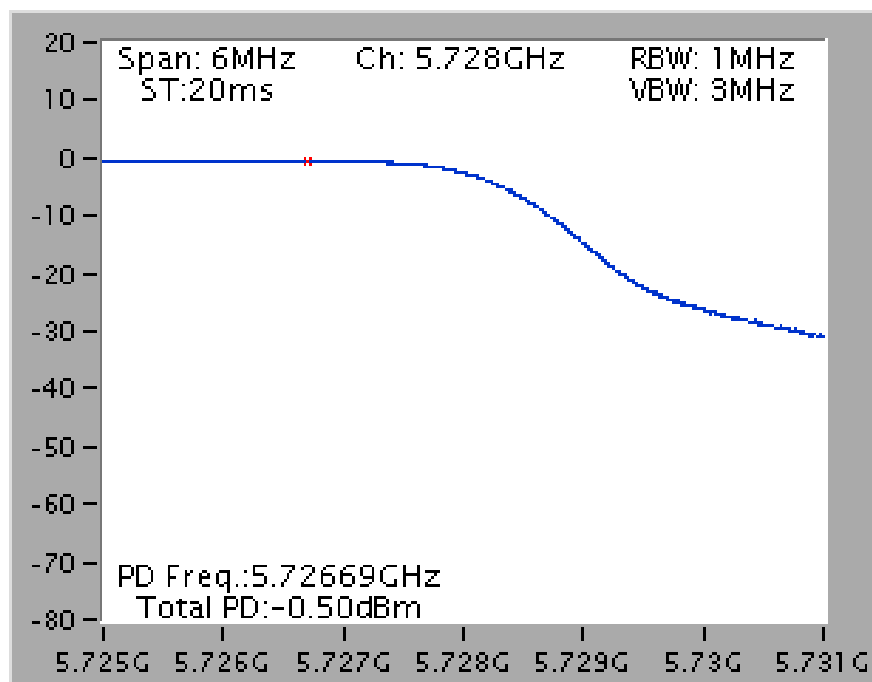
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5710 MHz (UNII 3)**



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 2C)

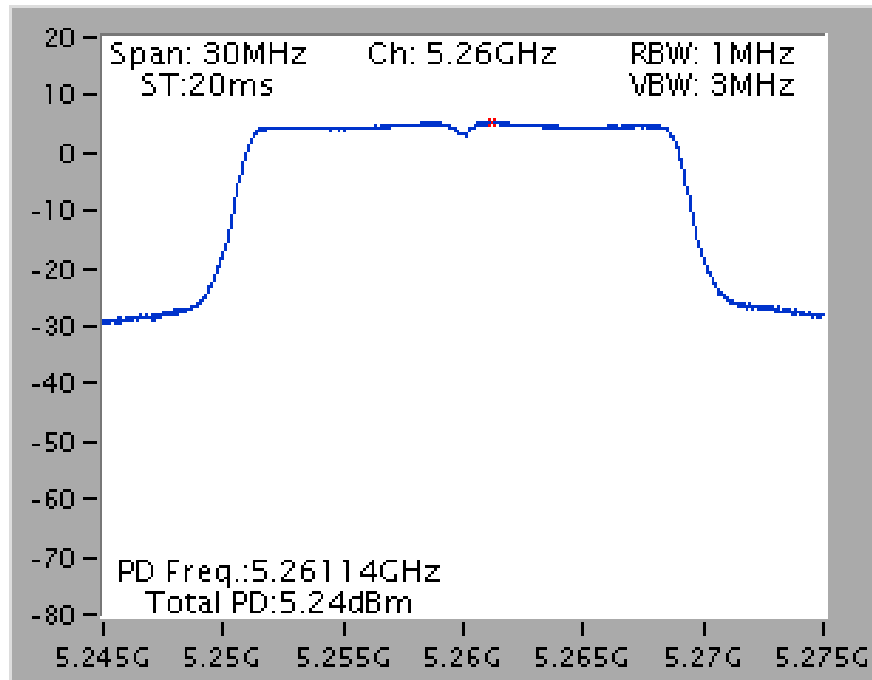


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 3)

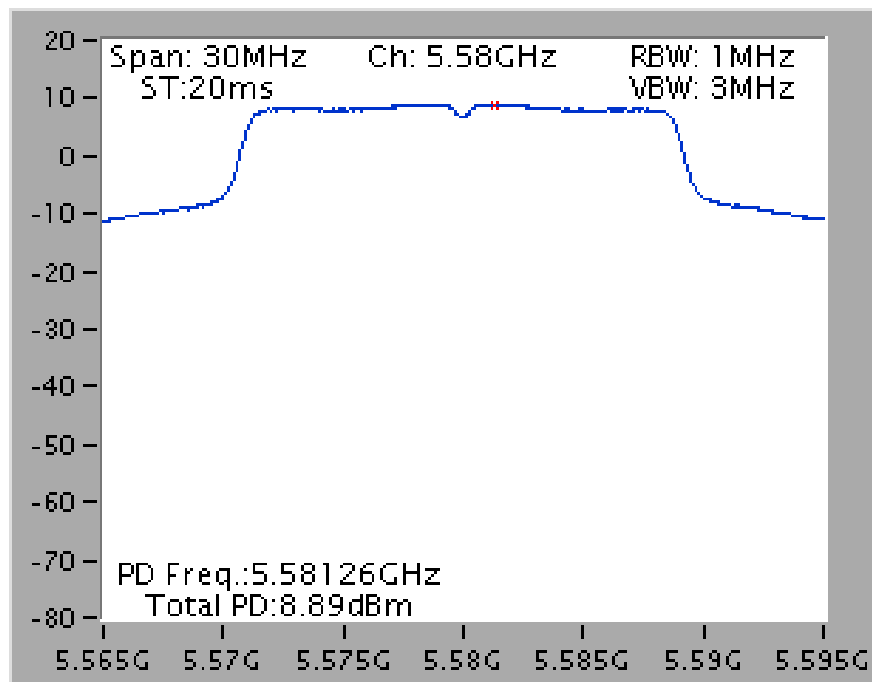


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 1TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5260 MHz

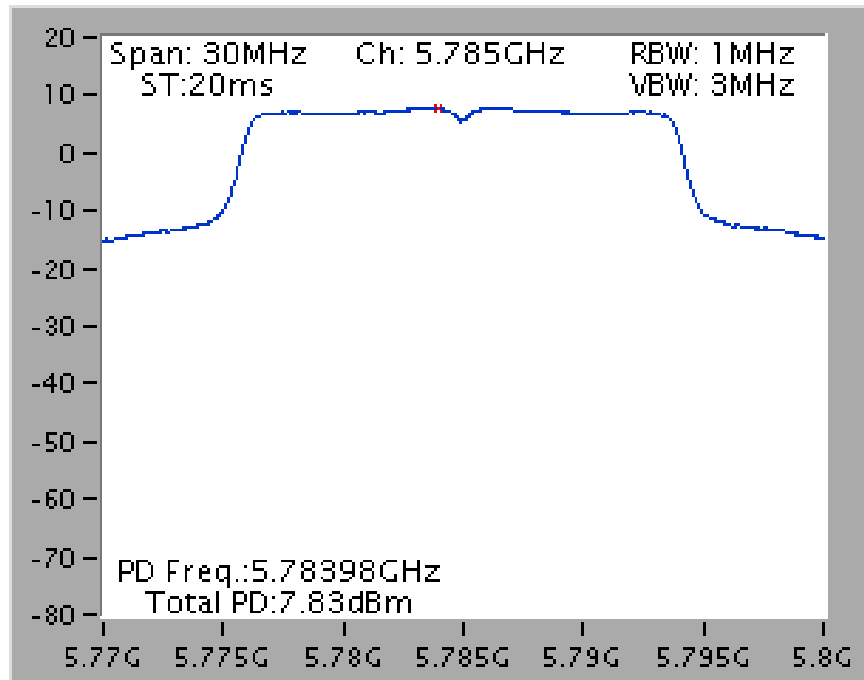


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5580 MHz

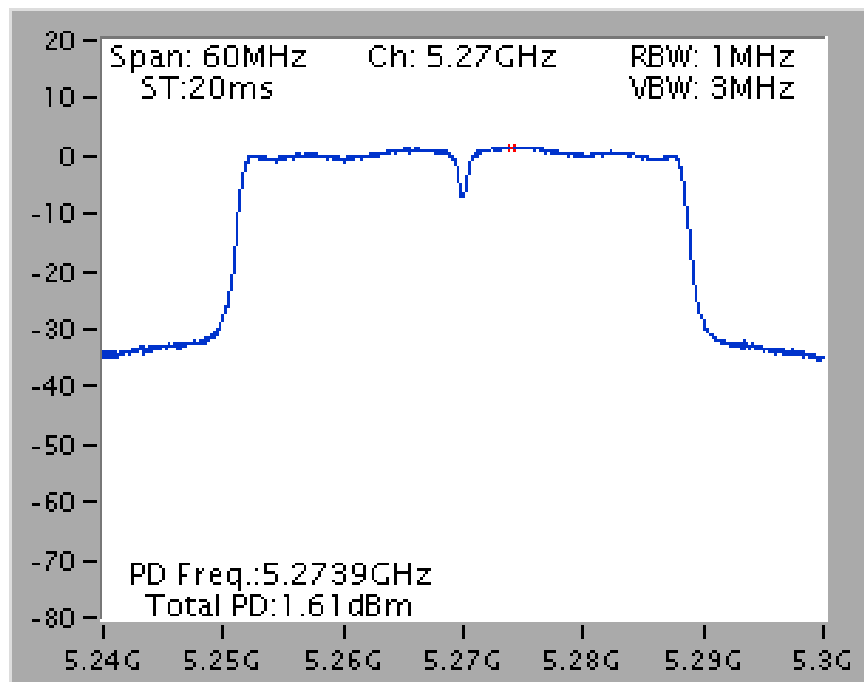




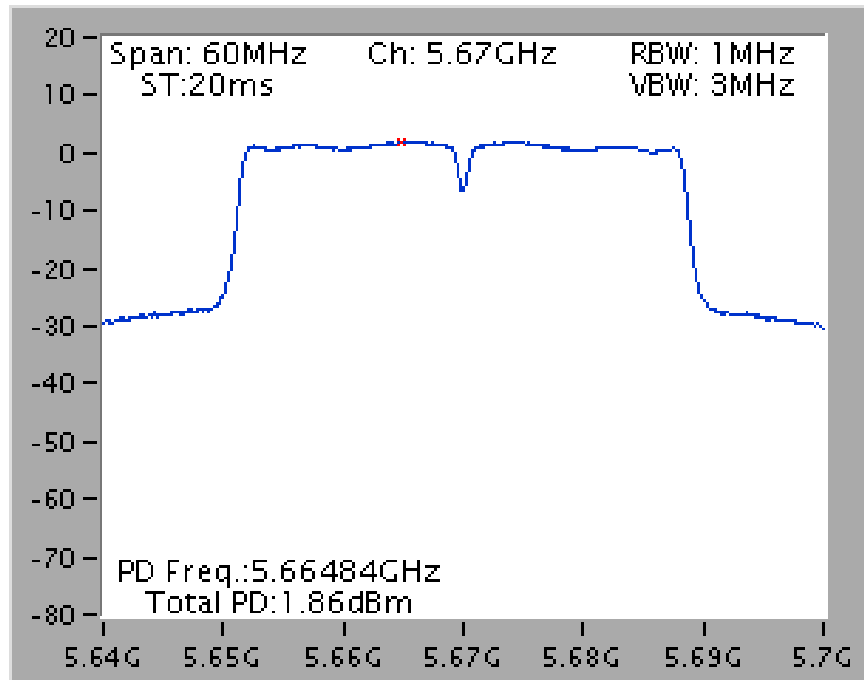
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5785 MHz



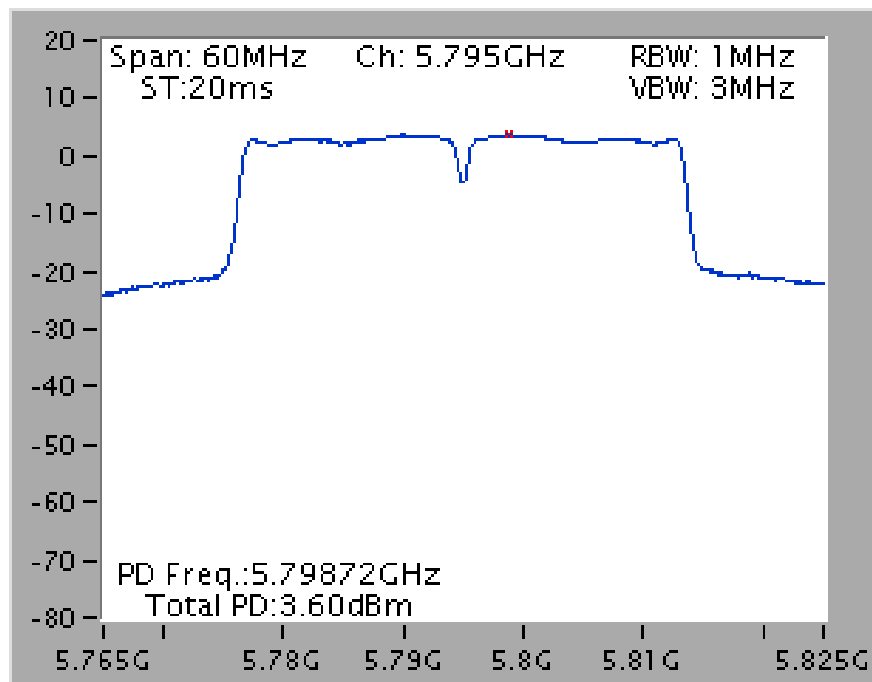
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5270 MHz



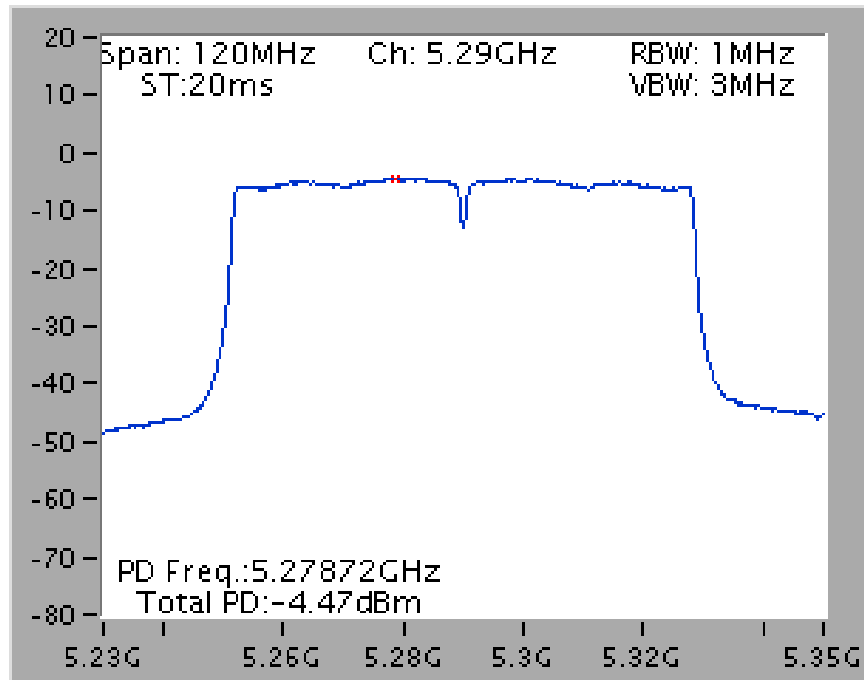
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5670 MHz



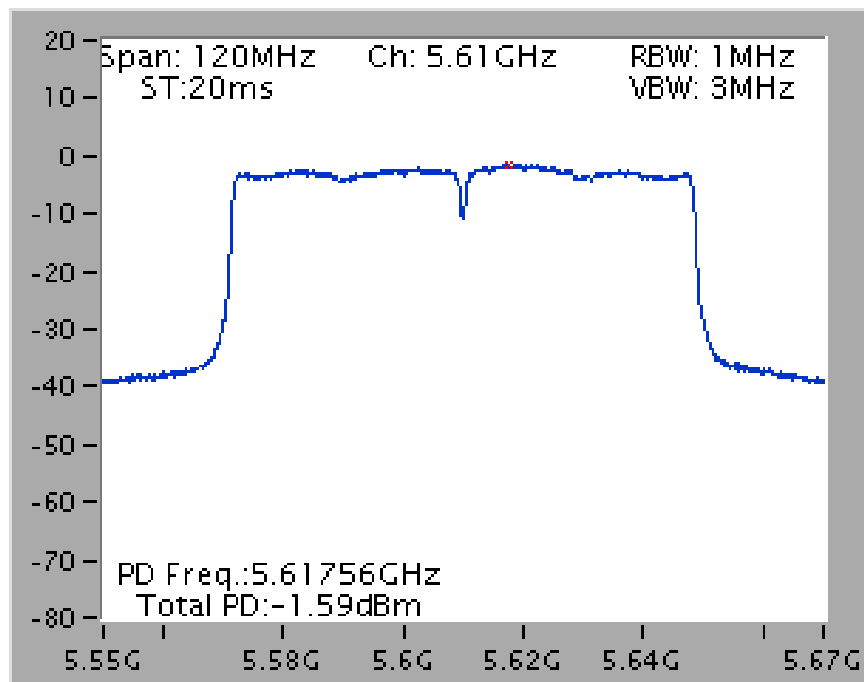
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5795 MHz



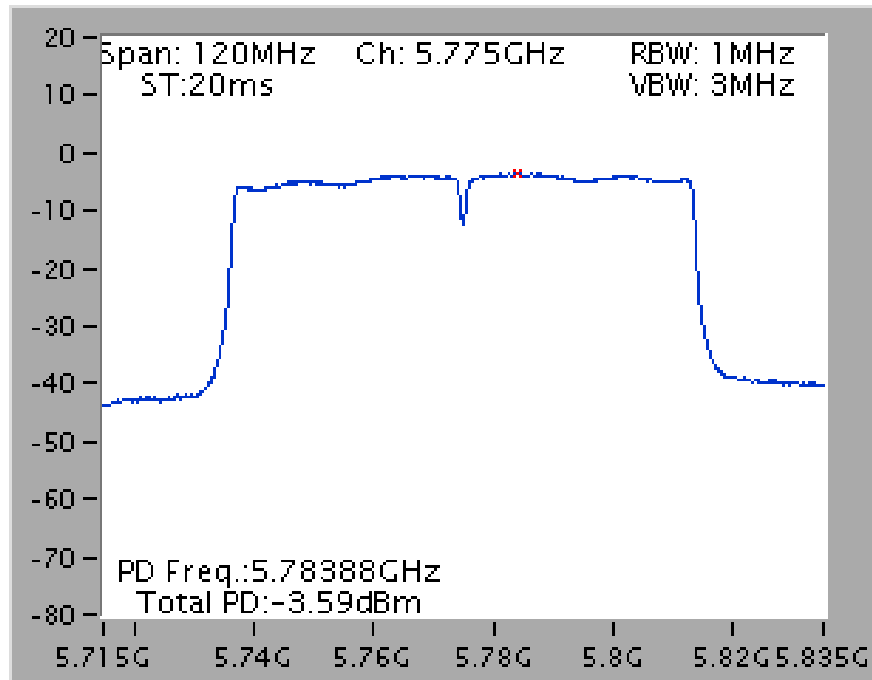
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5610 MHz

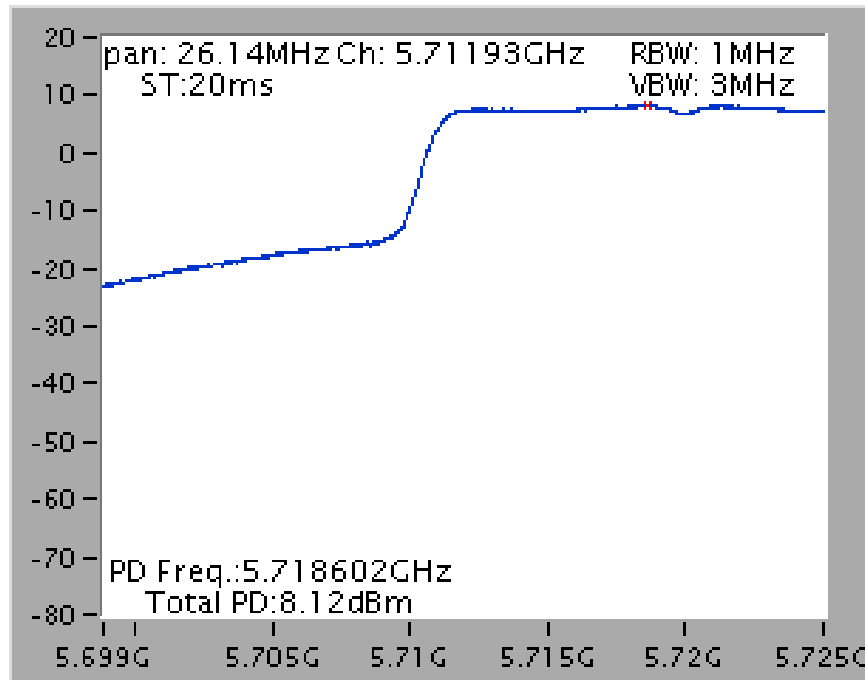


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5775 MHz

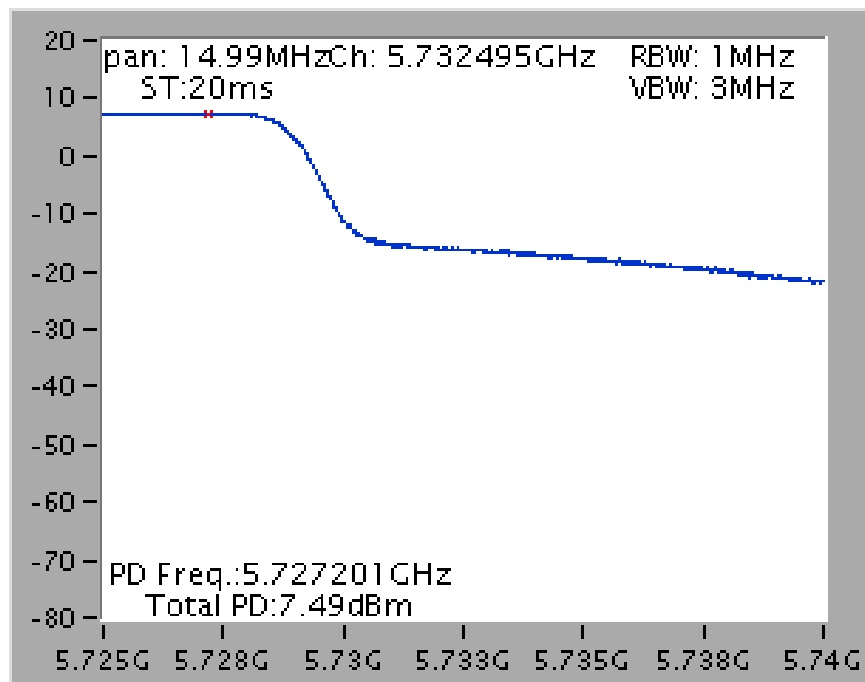


### Straddle Channel

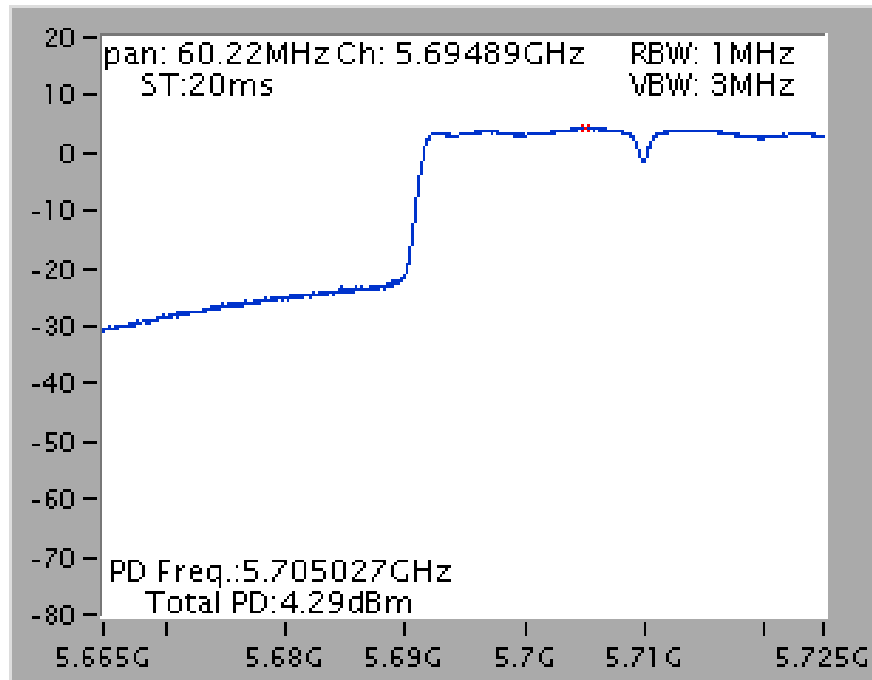
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 2C)



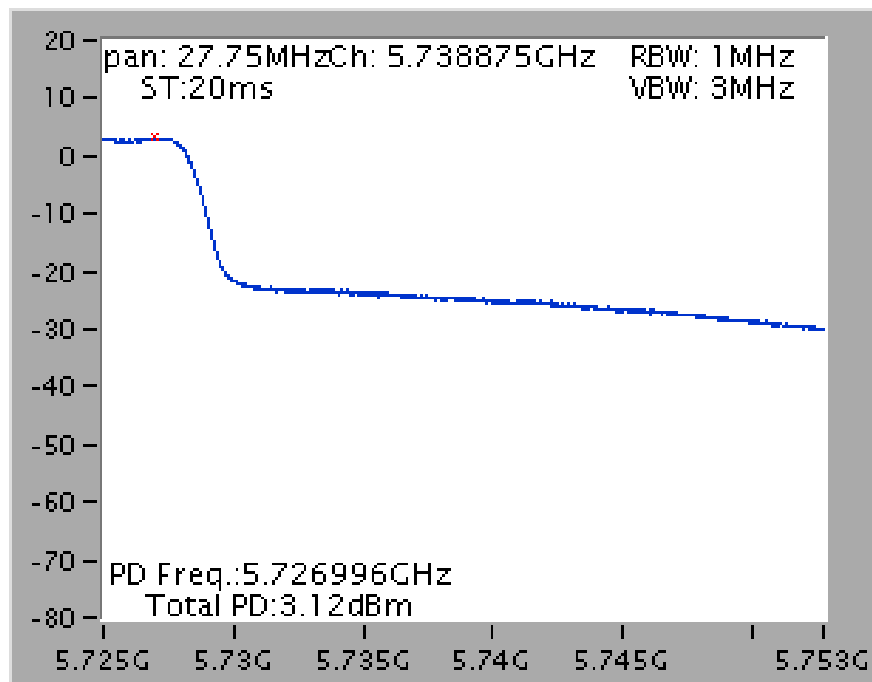
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)



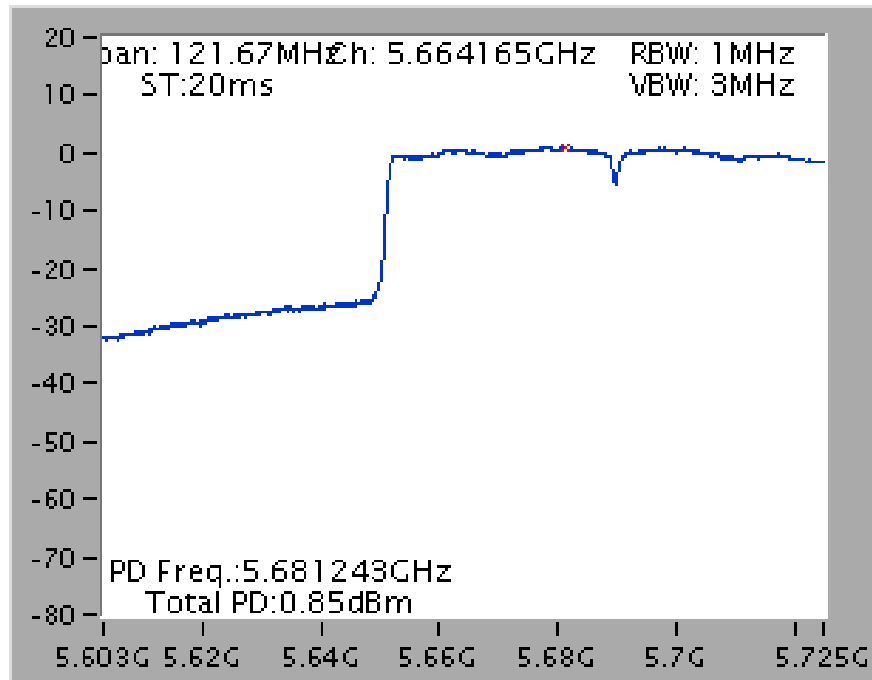
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



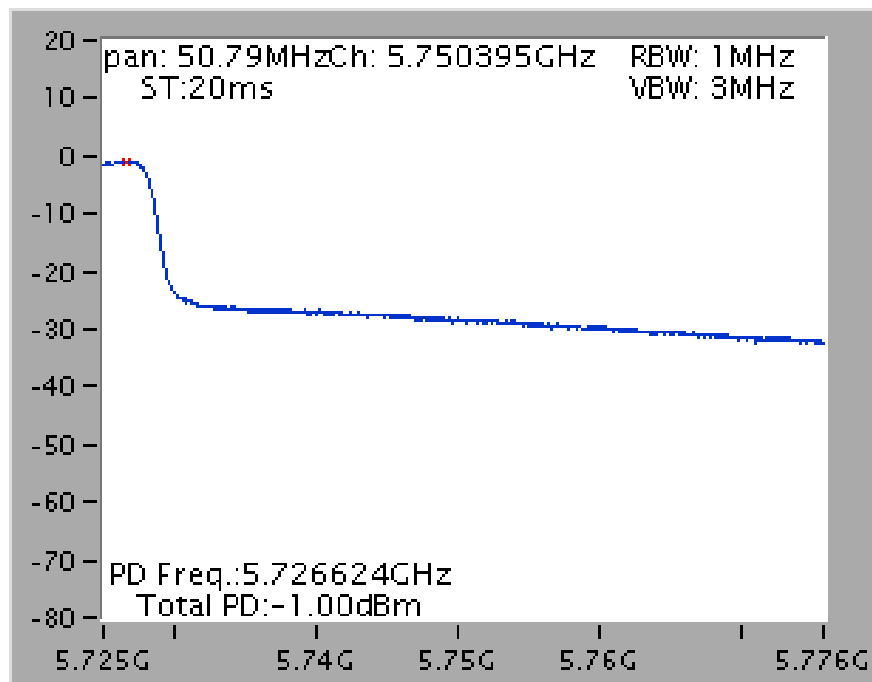
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)



## Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)

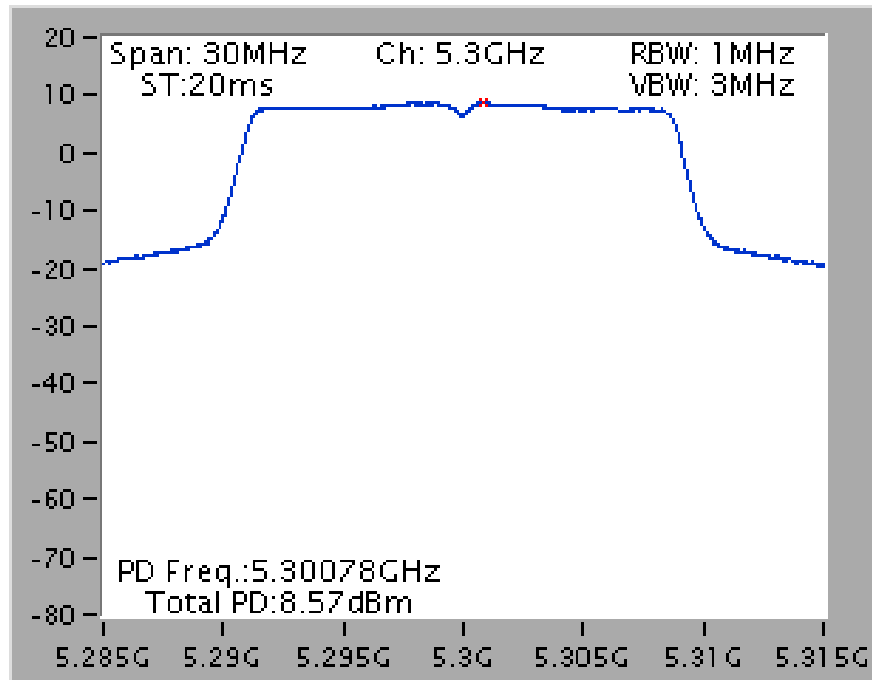


## Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)

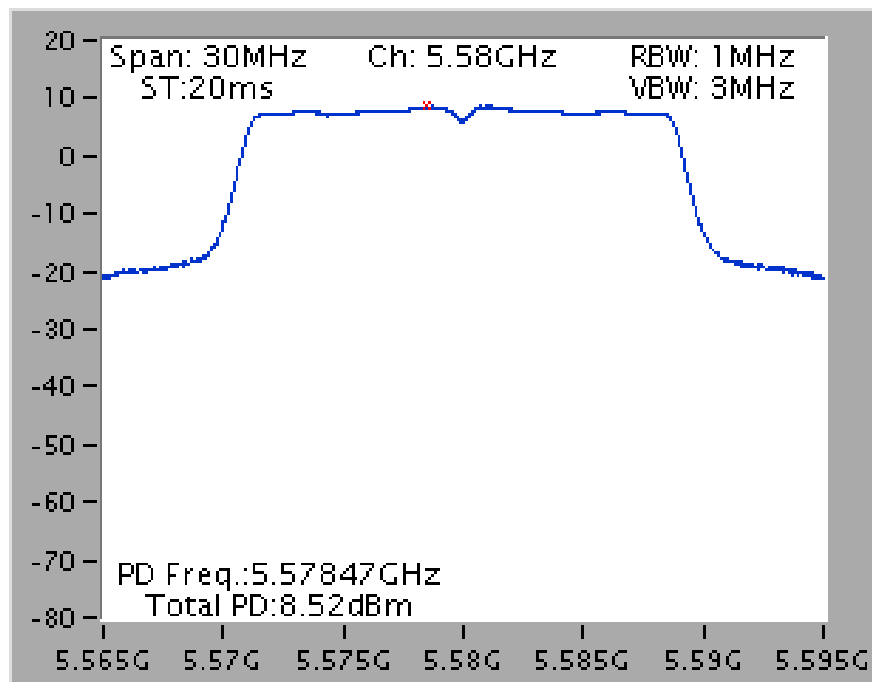


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5300 MHz

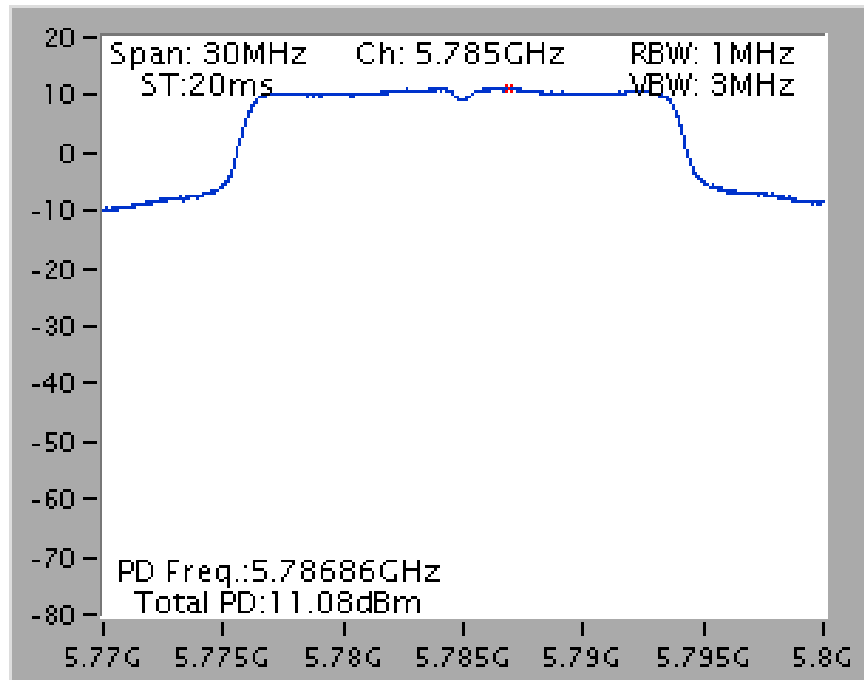


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5580 MHz

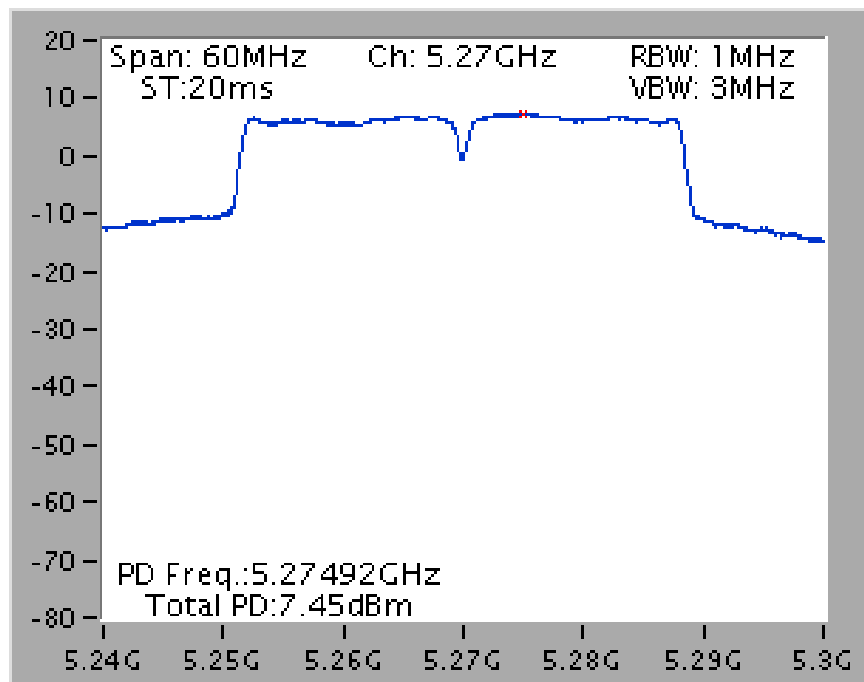




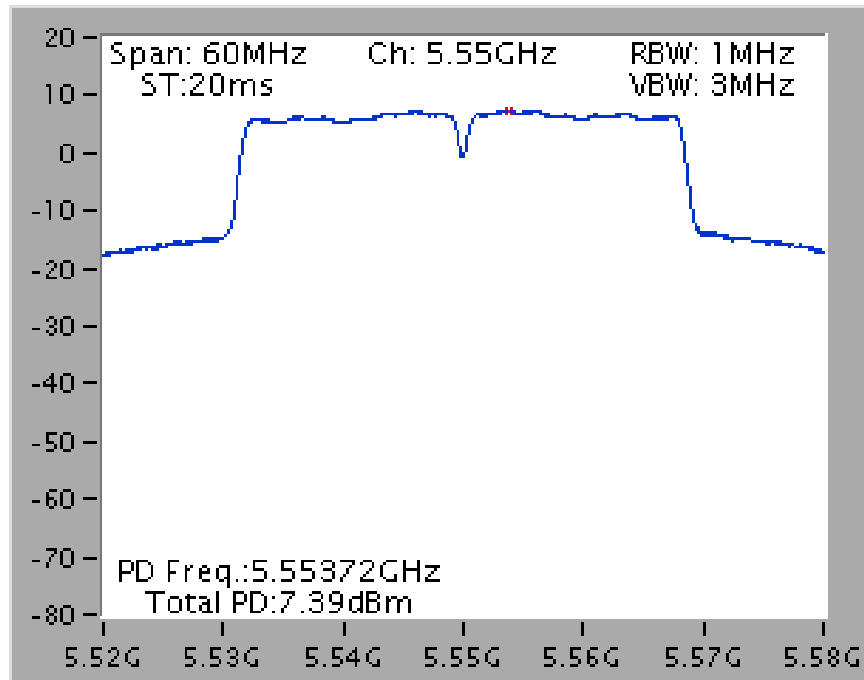
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



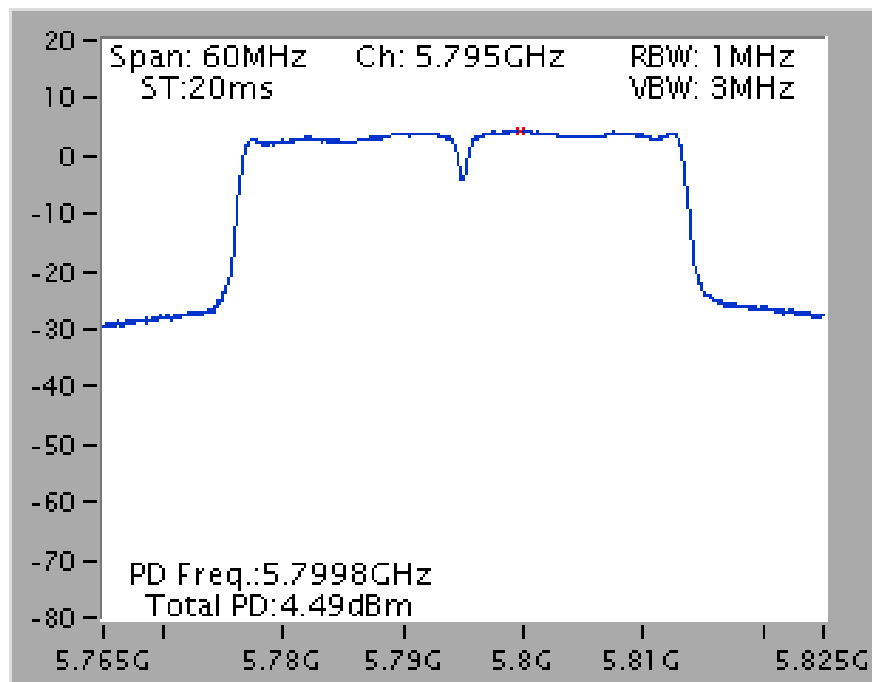
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5270 MHz



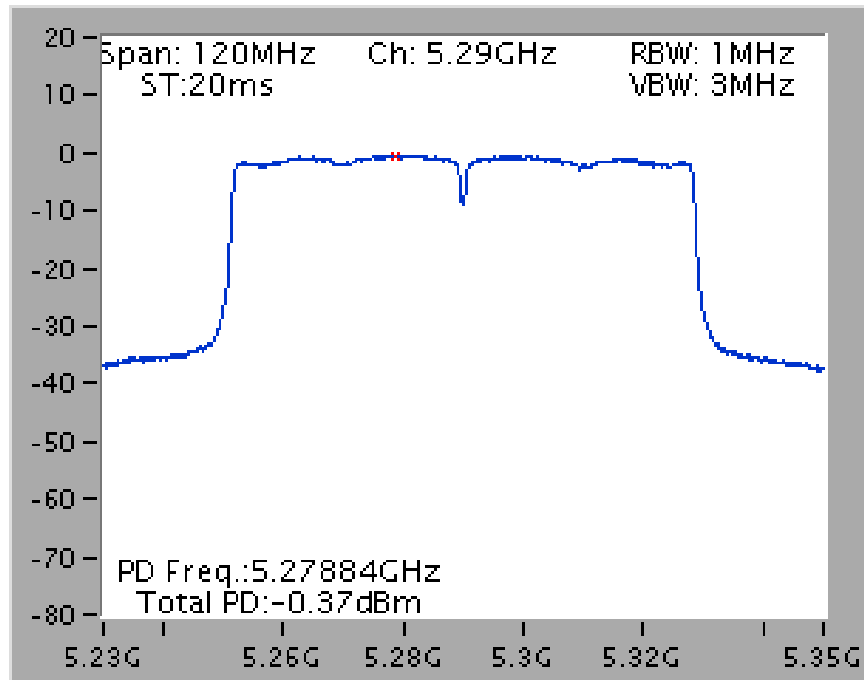
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5550 MHz



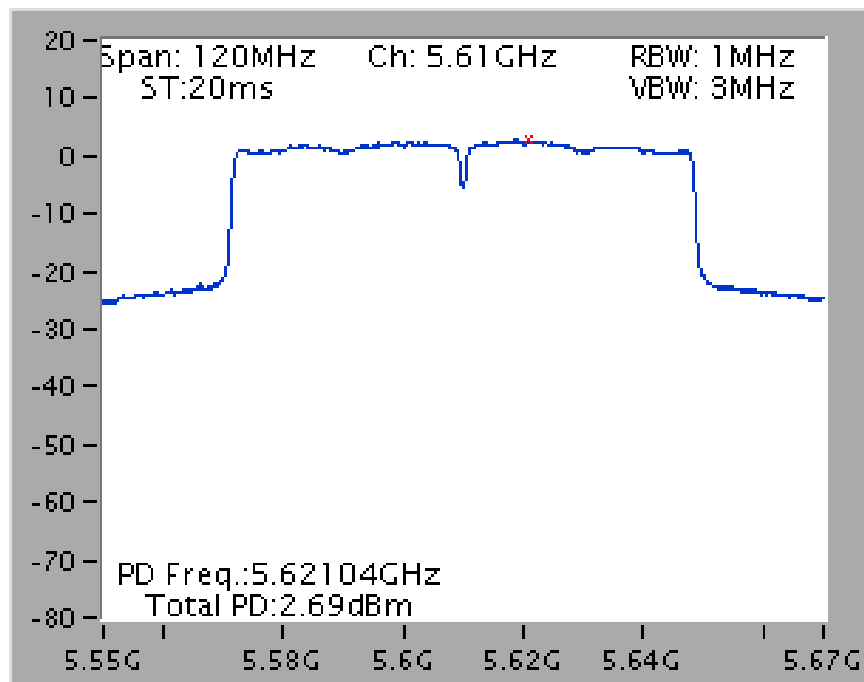
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



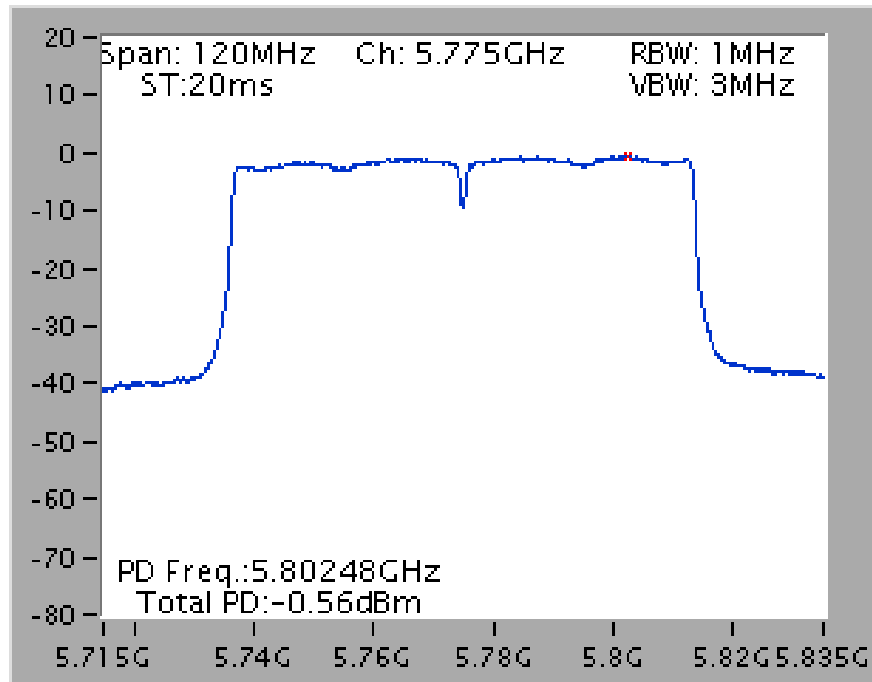
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5610 MHz

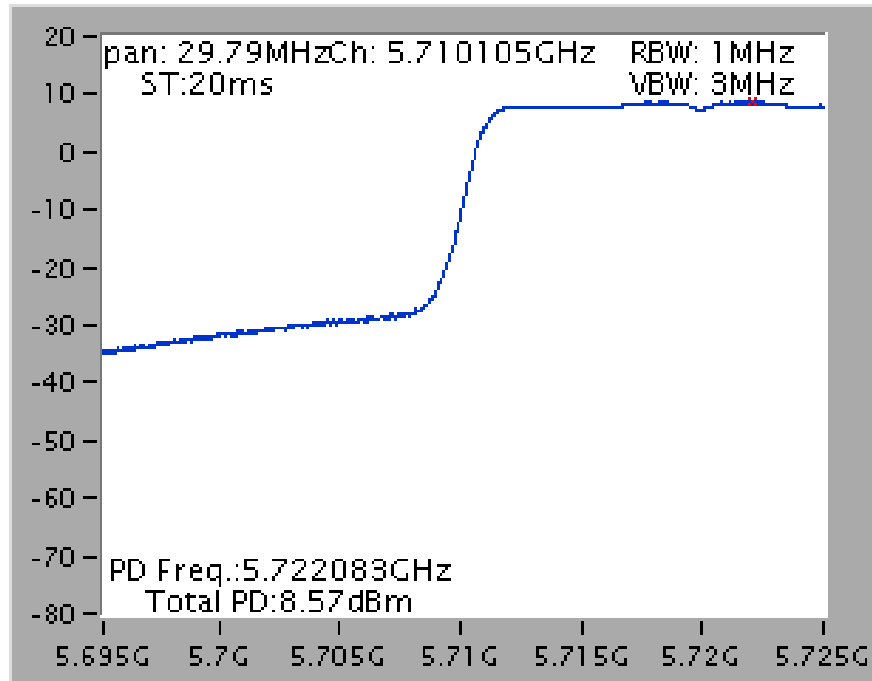


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

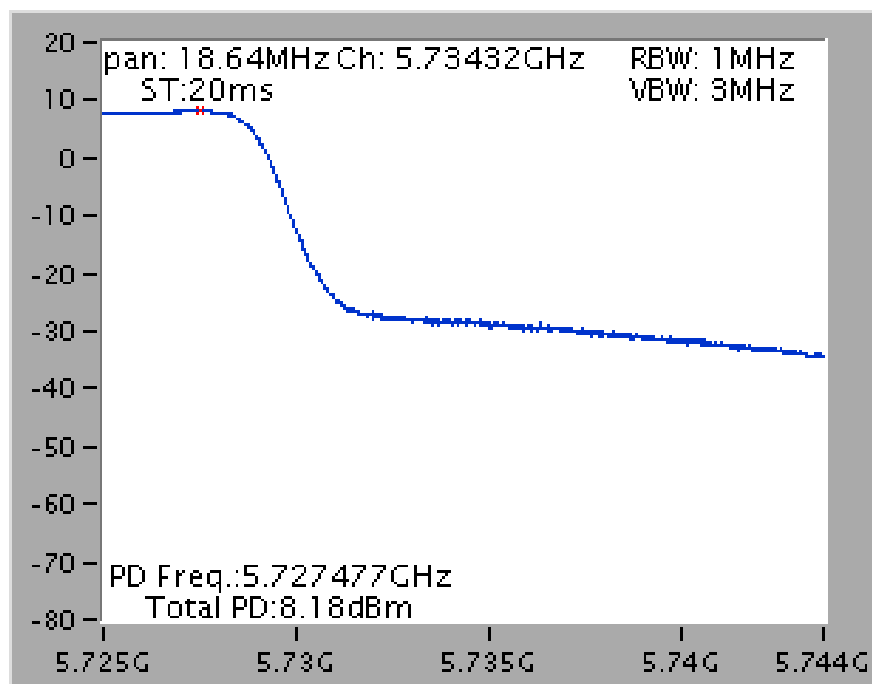


### Straddle Channel

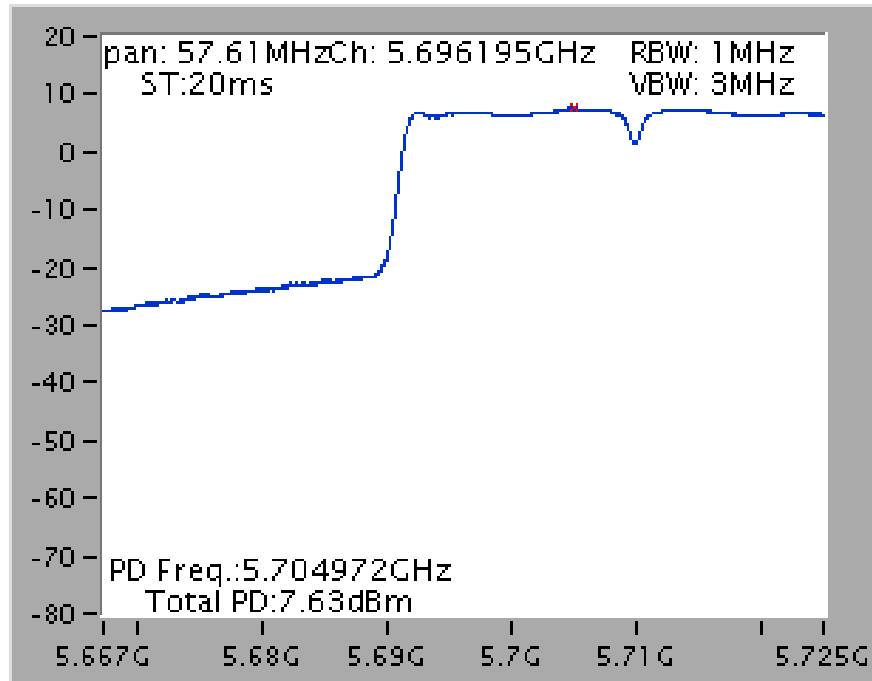
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 2C)



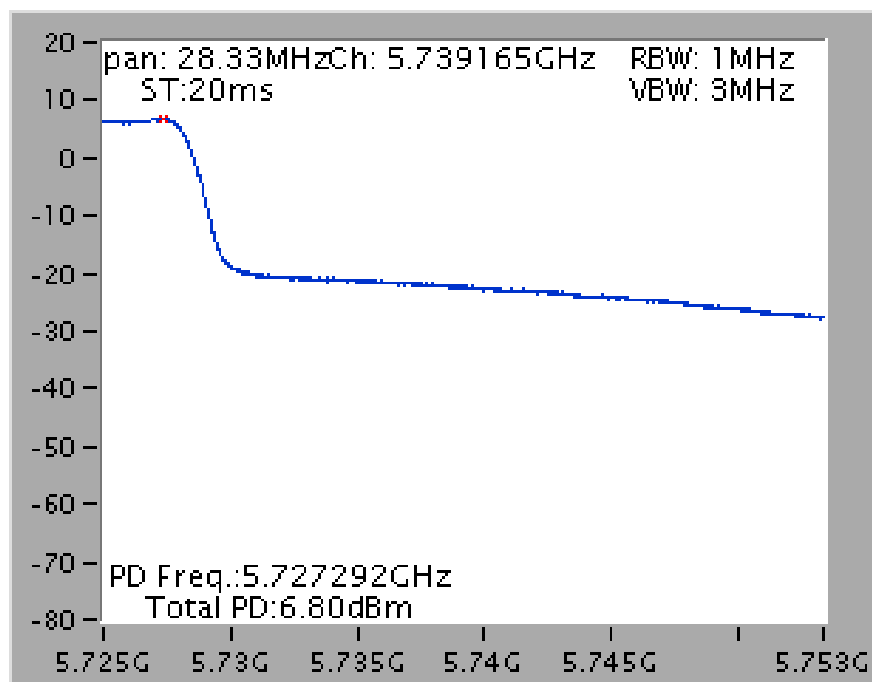
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 3)



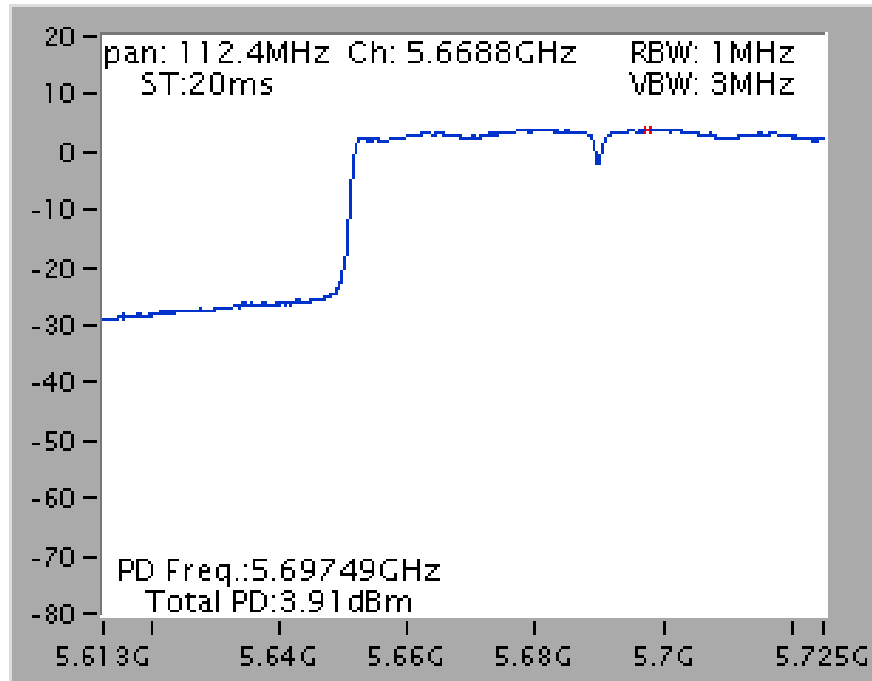
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 2C)



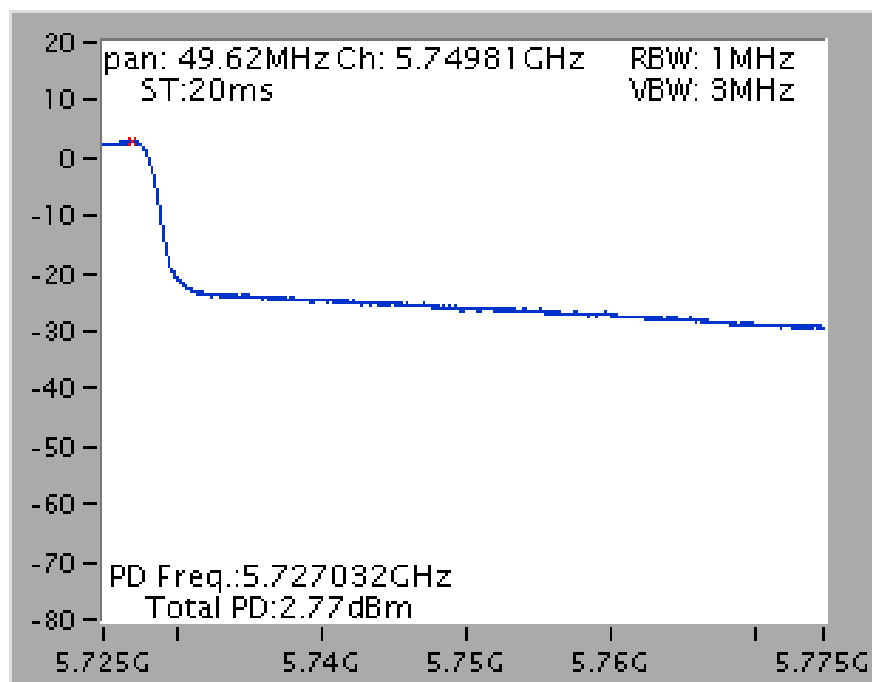
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 2C)

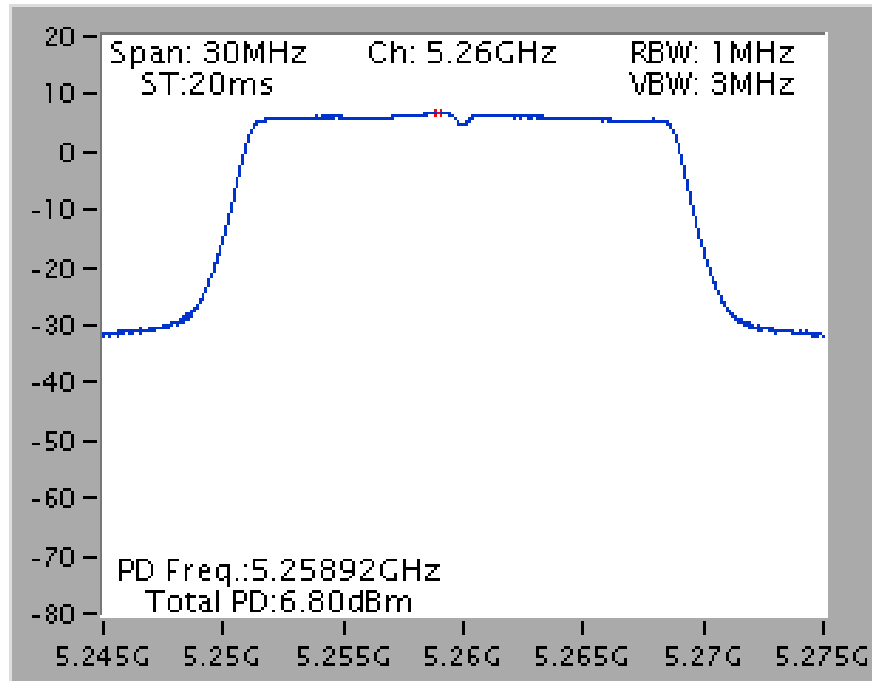


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 3)

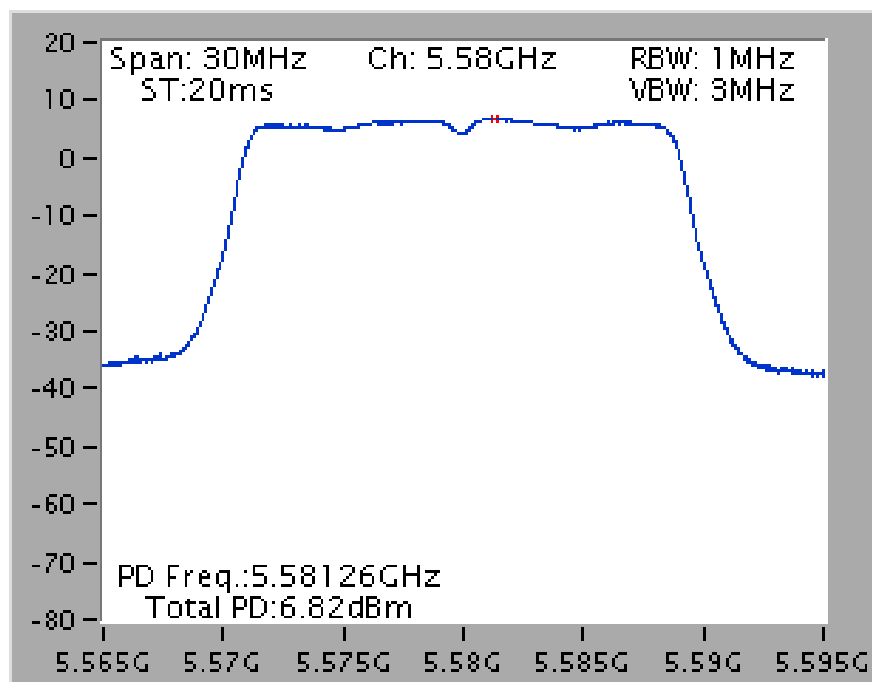


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5260 MHz

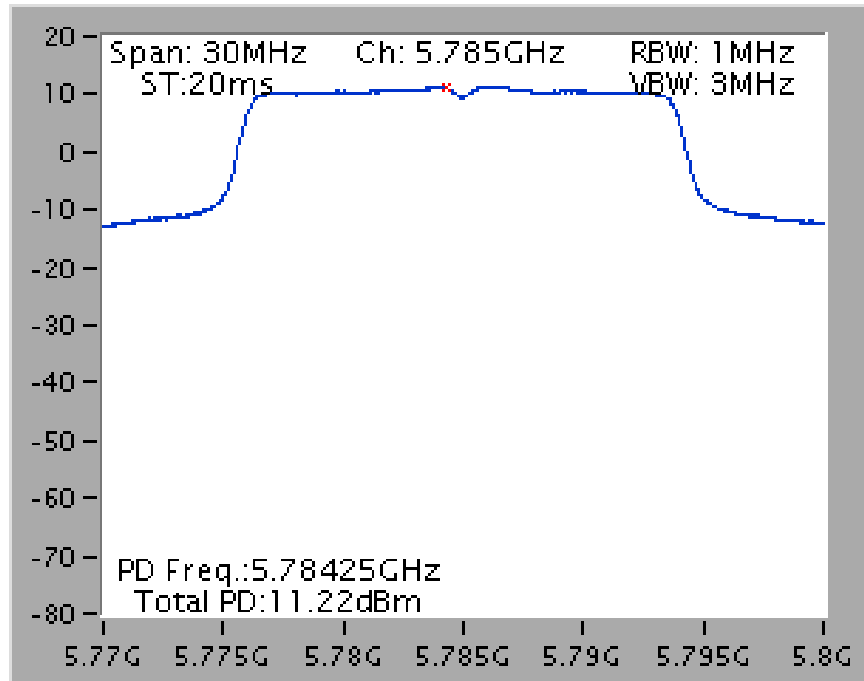


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5580 MHz

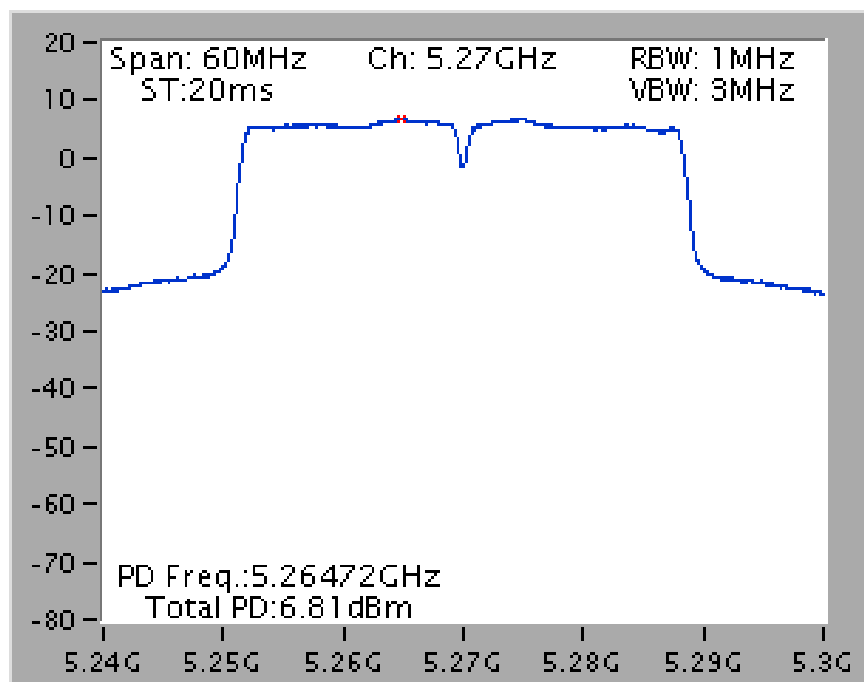




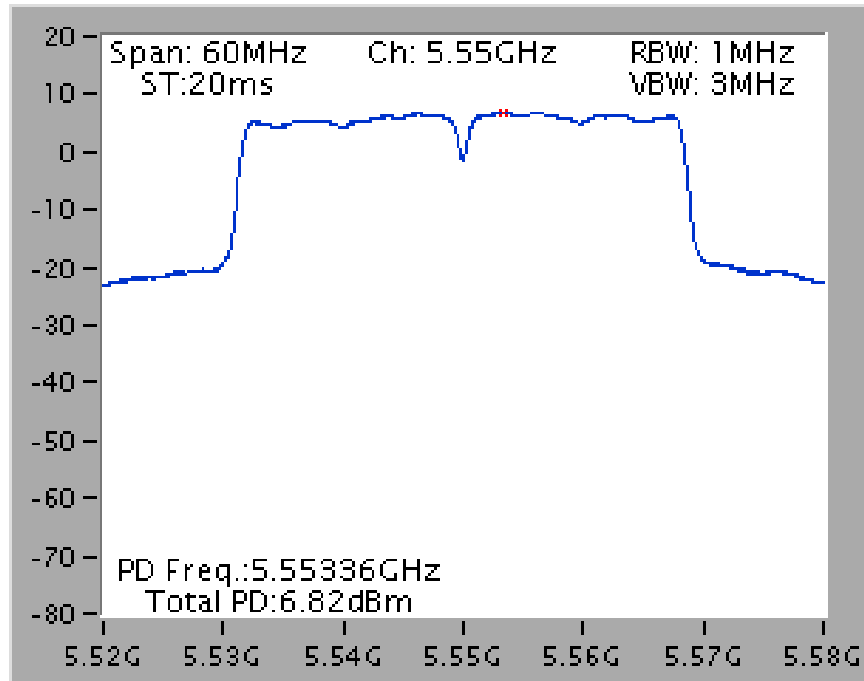
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5785 MHz**



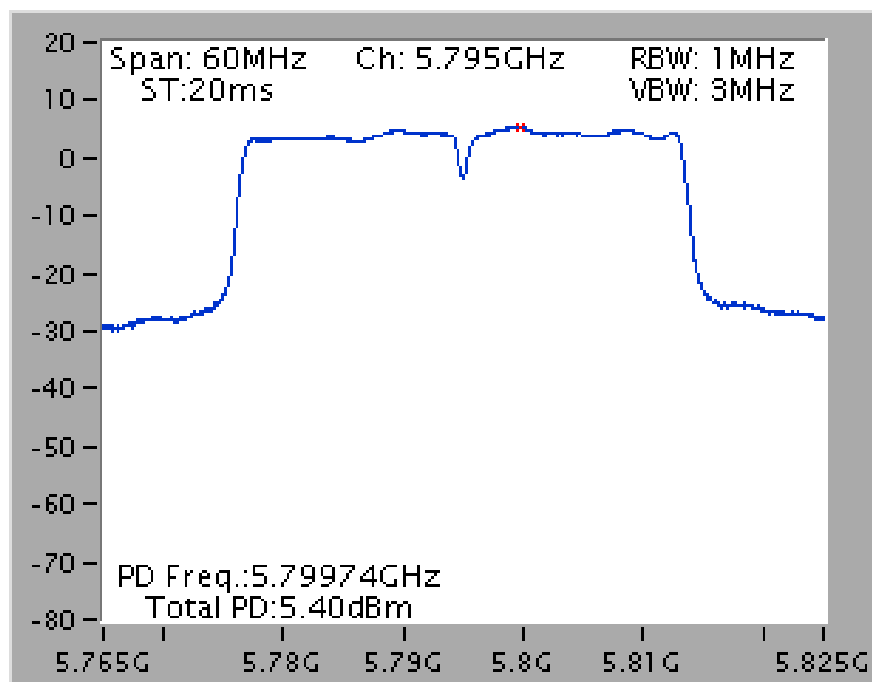
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5270 MHz**



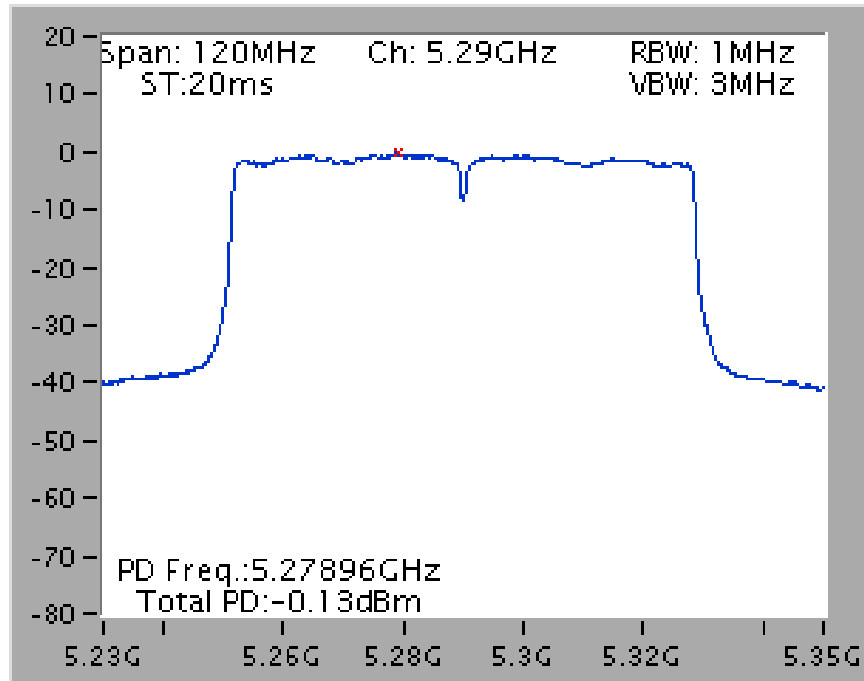
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5550 MHz



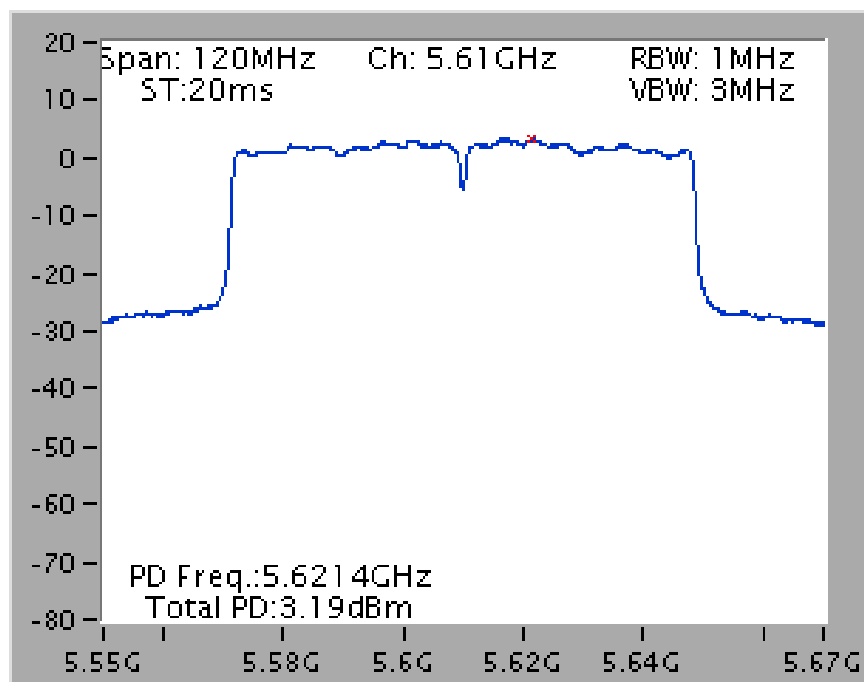
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5795 MHz



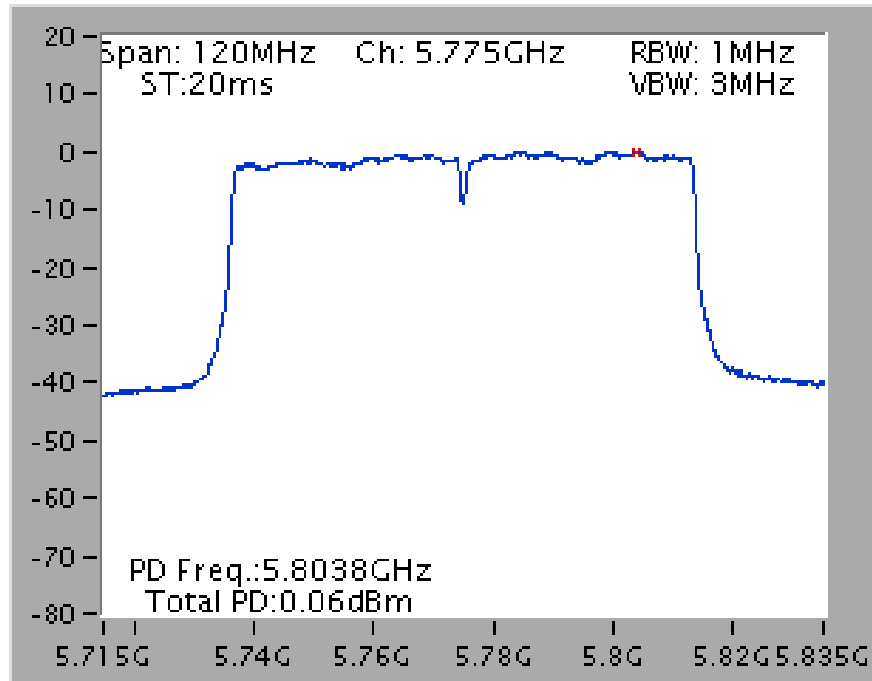
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5610 MHz

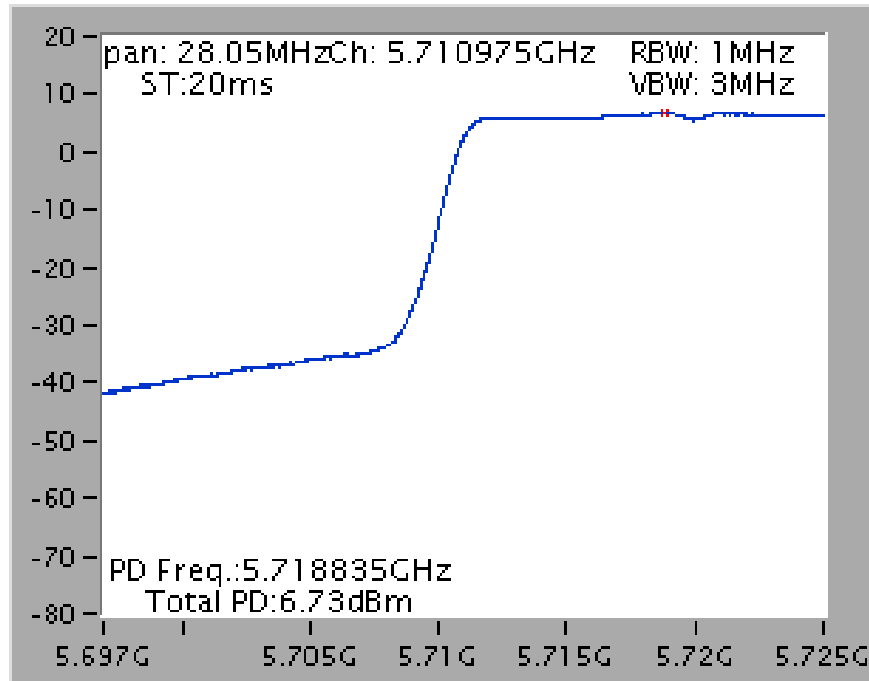


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5775 MHz

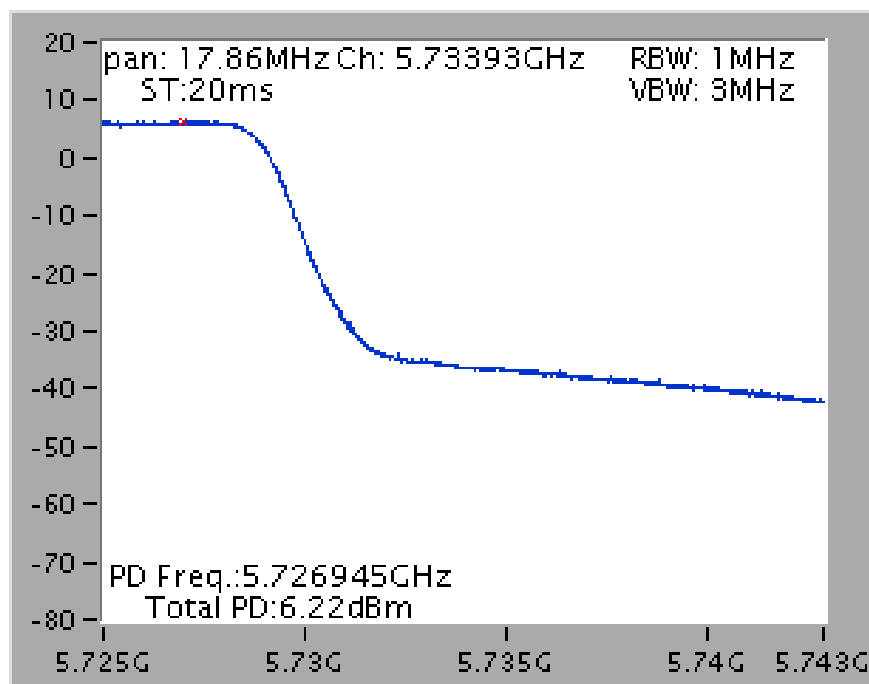


### Straddle Channel

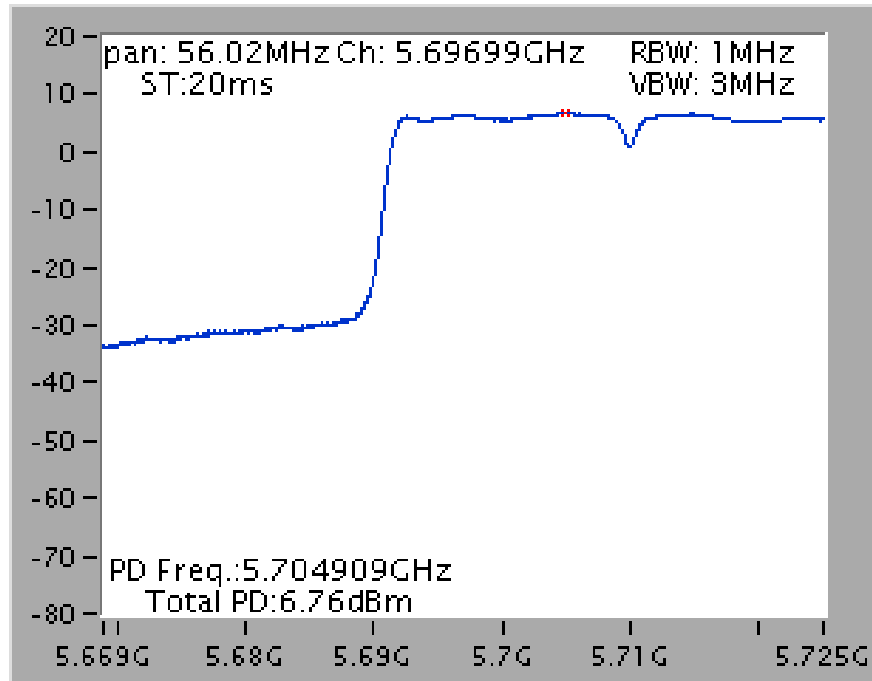
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 2C)



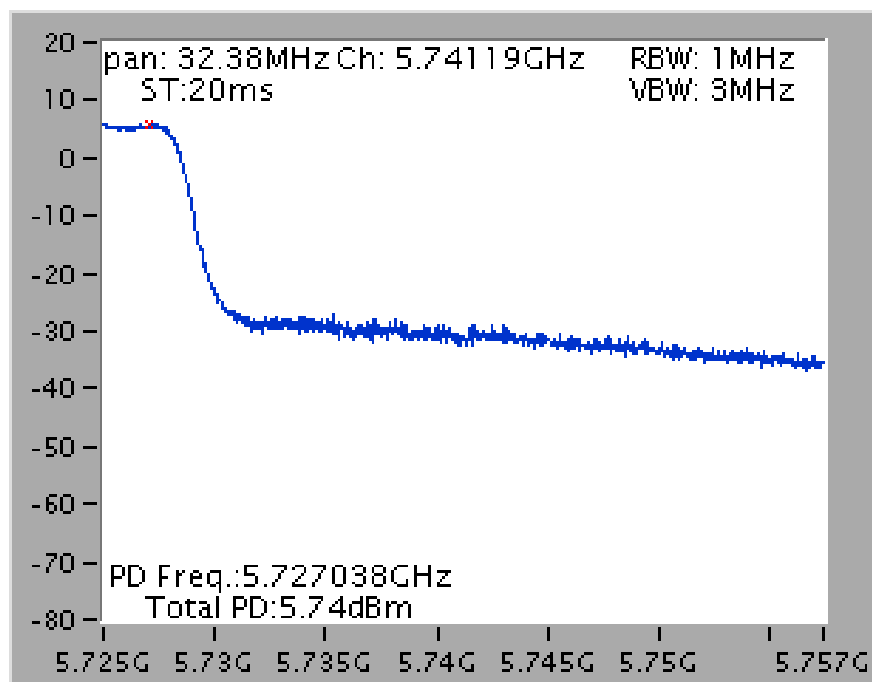
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 3)



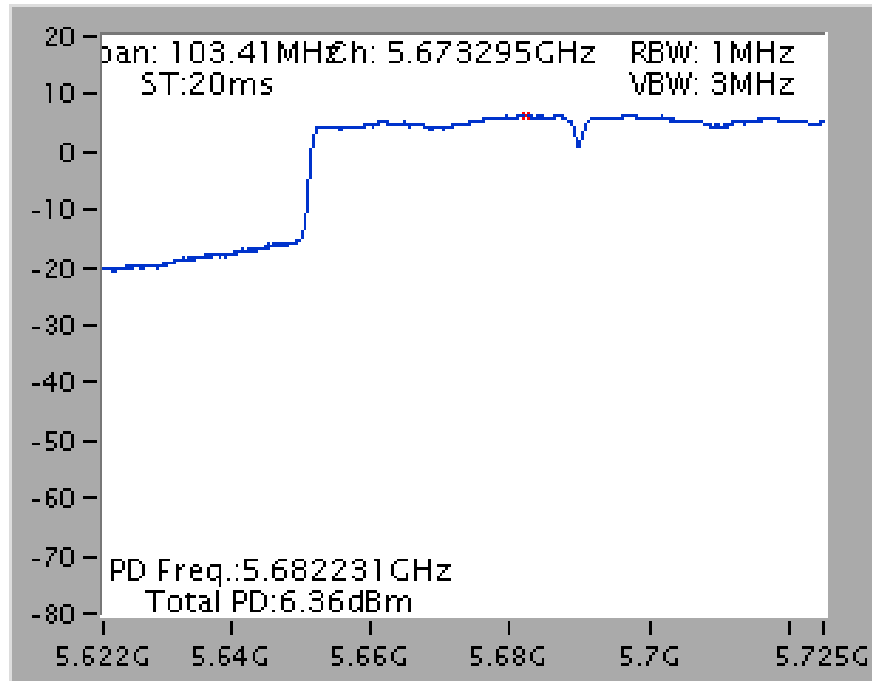
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5710 MHz (UNII 2C)



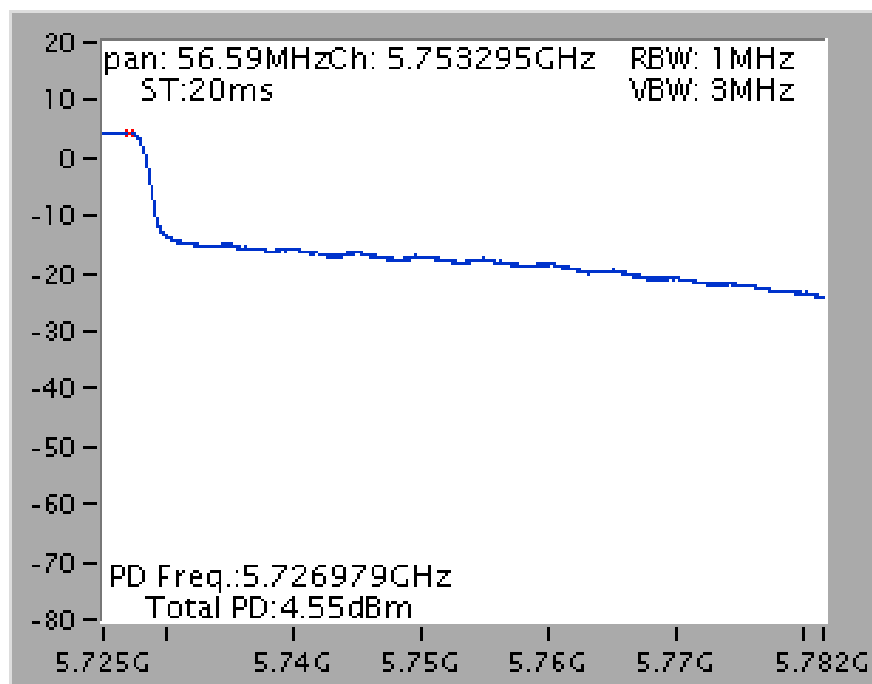
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 2C)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 3)

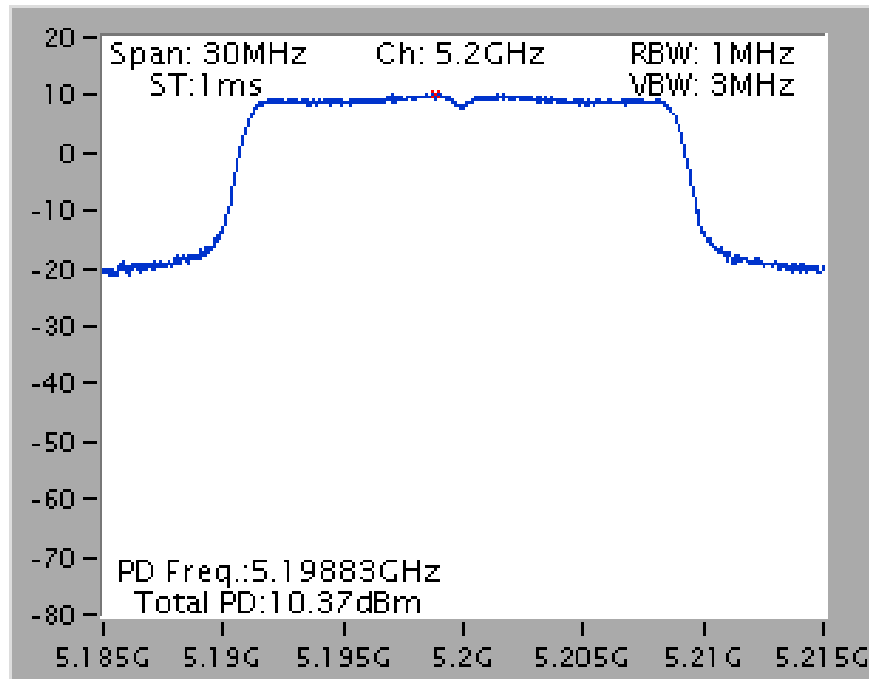


<For Beamforming Mode>

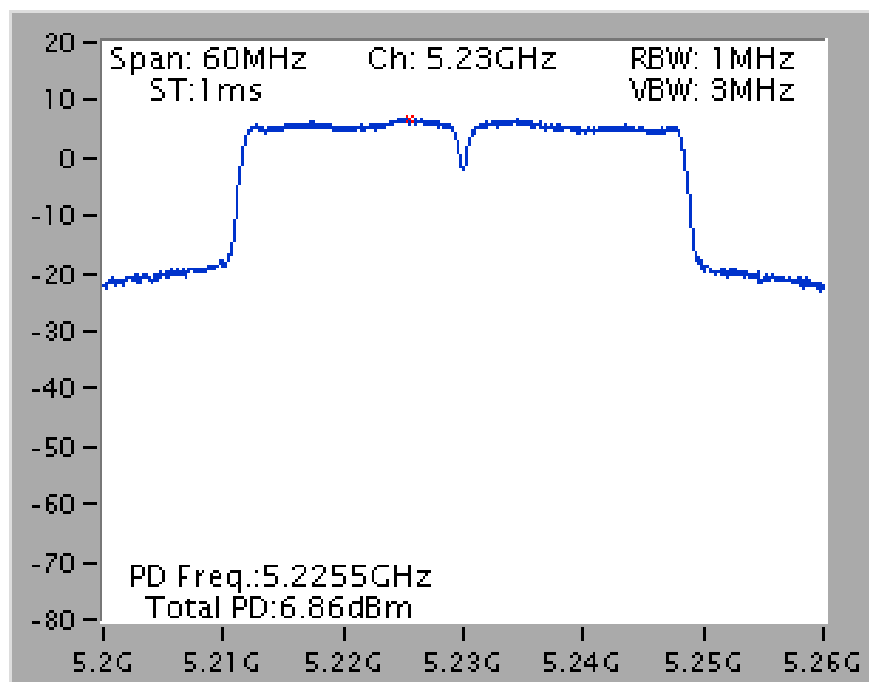
For indoor use

Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5200 MHz

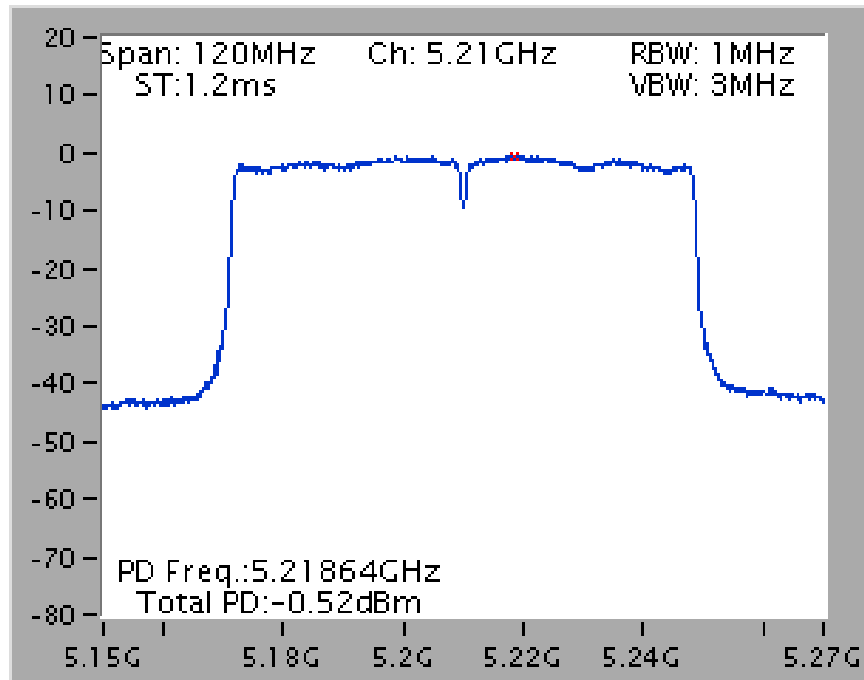


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



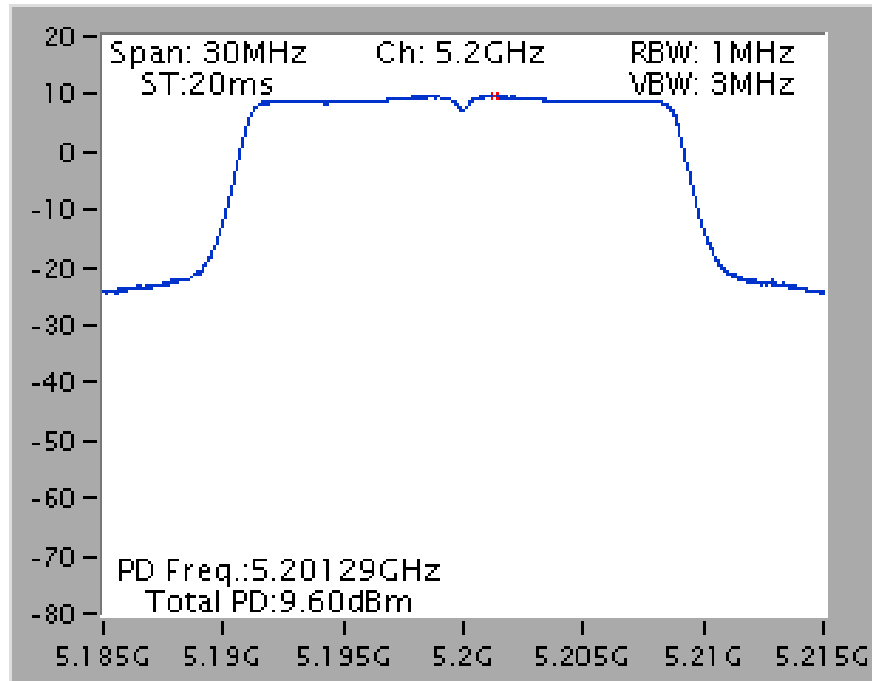


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

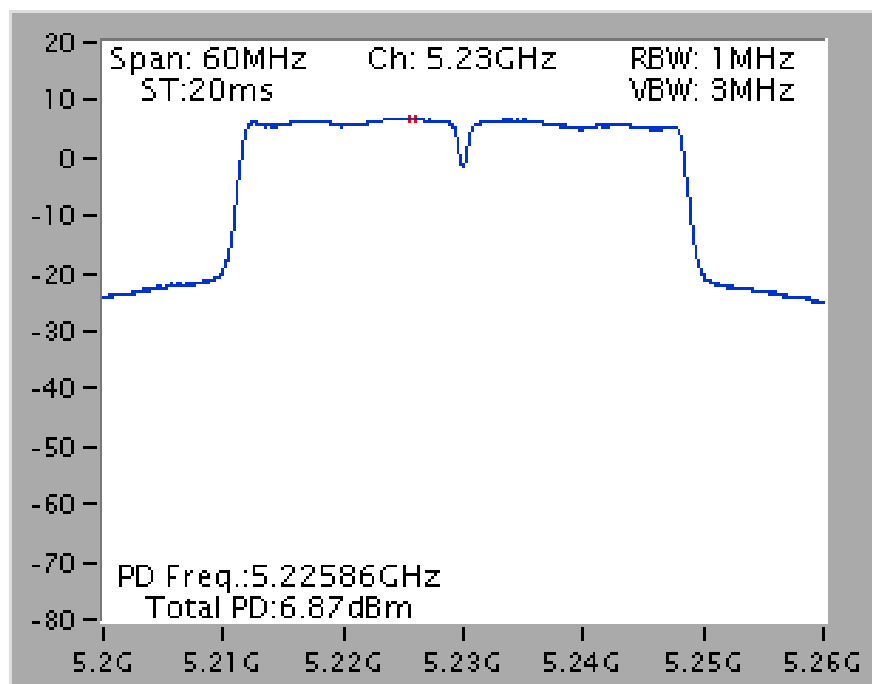


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)

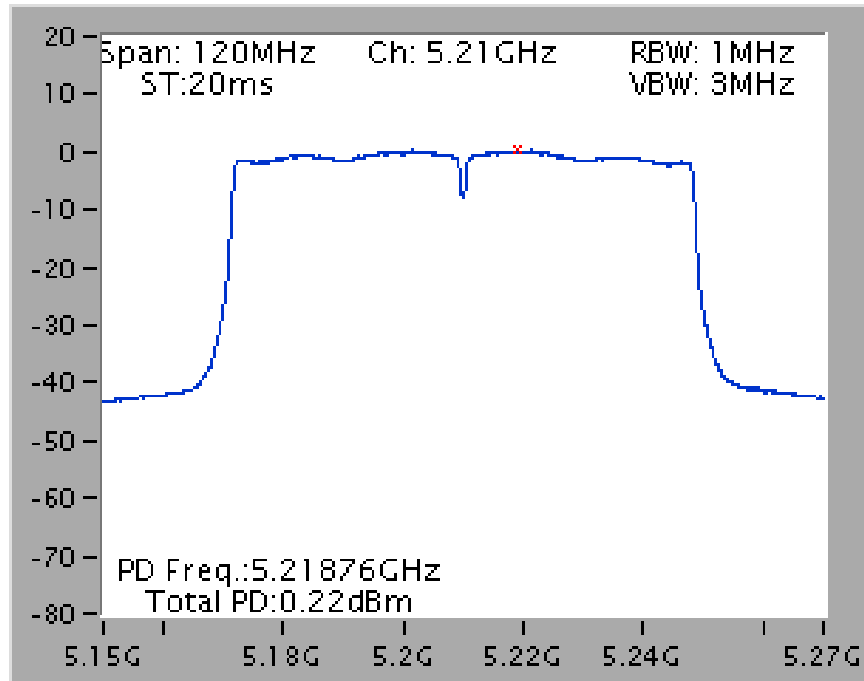
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz

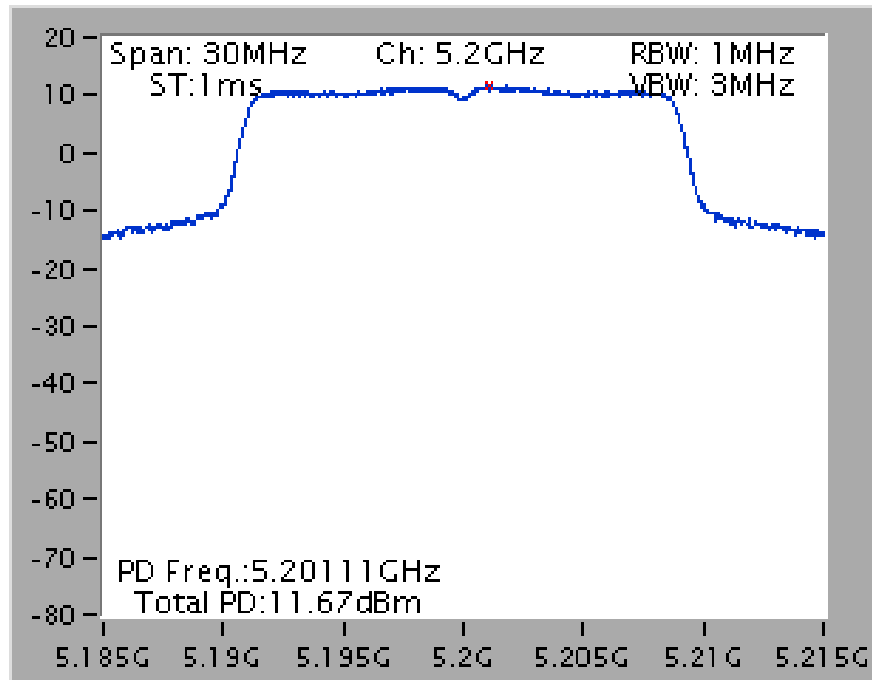


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz

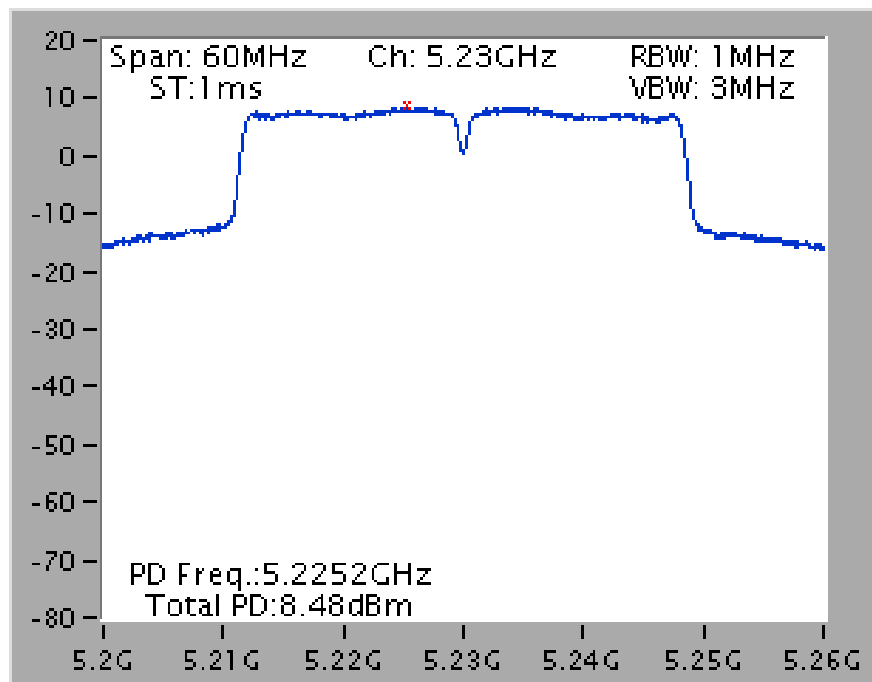


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

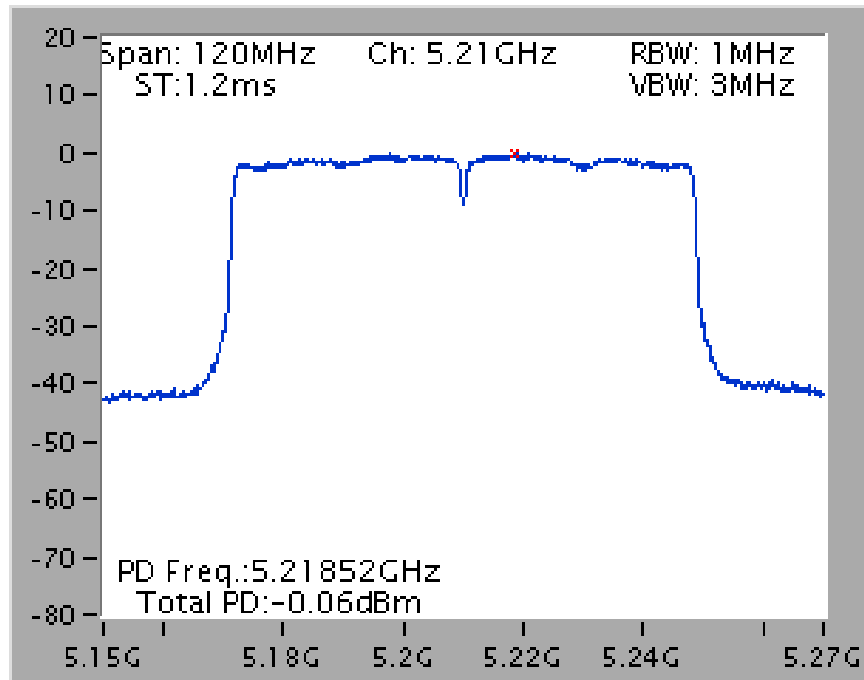
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz

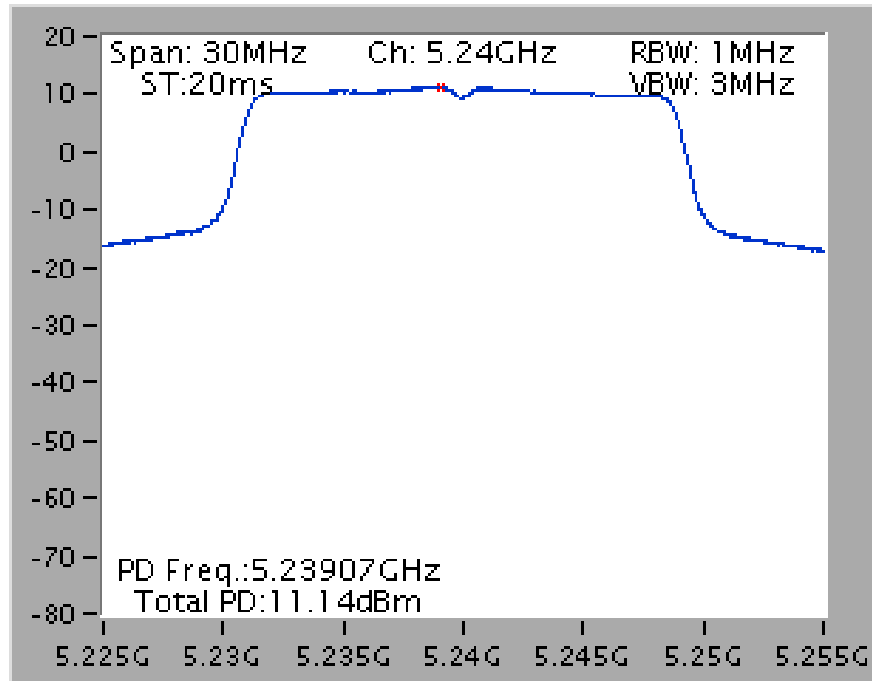


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

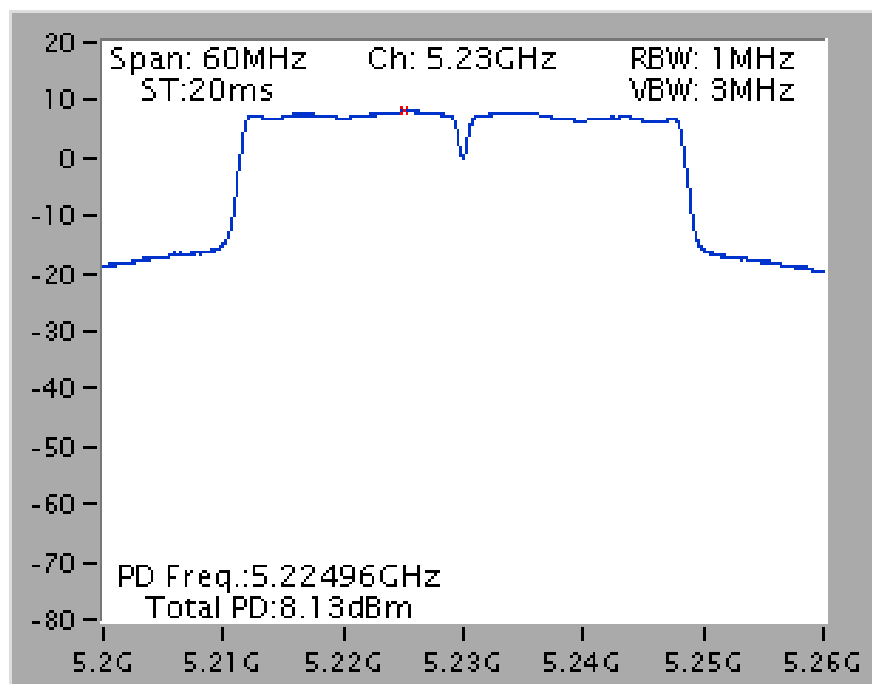


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

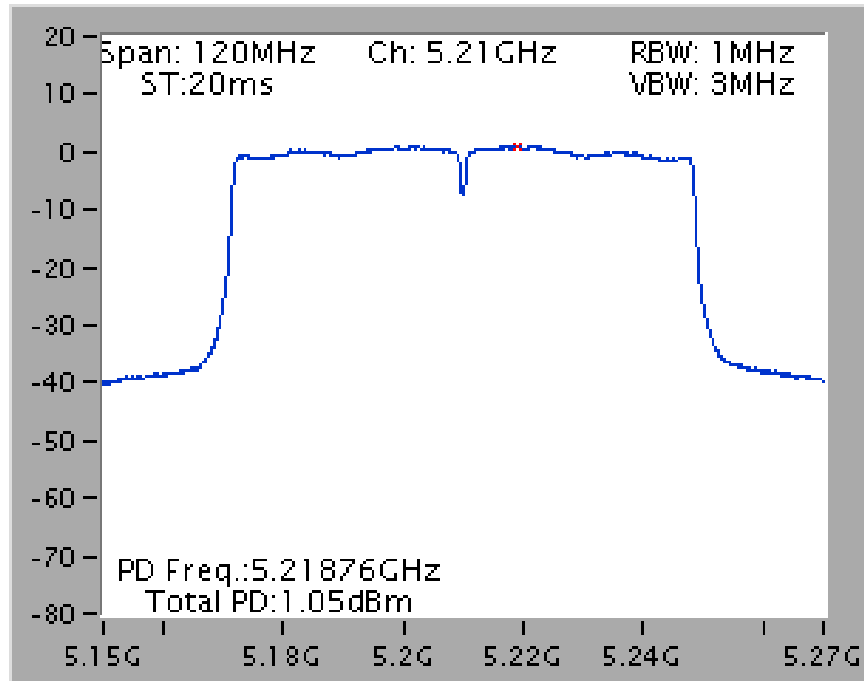
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5240 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz



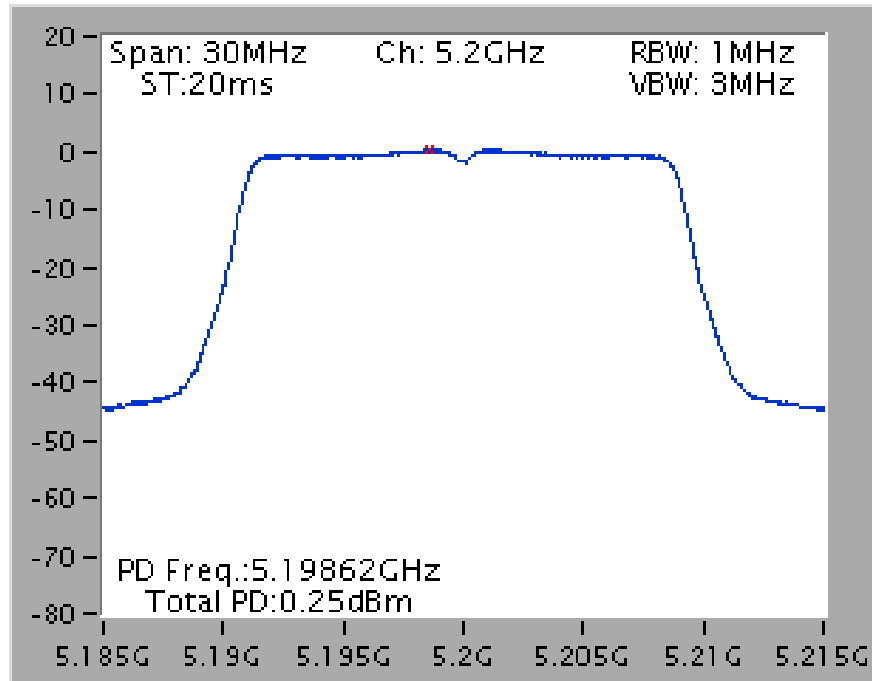
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz



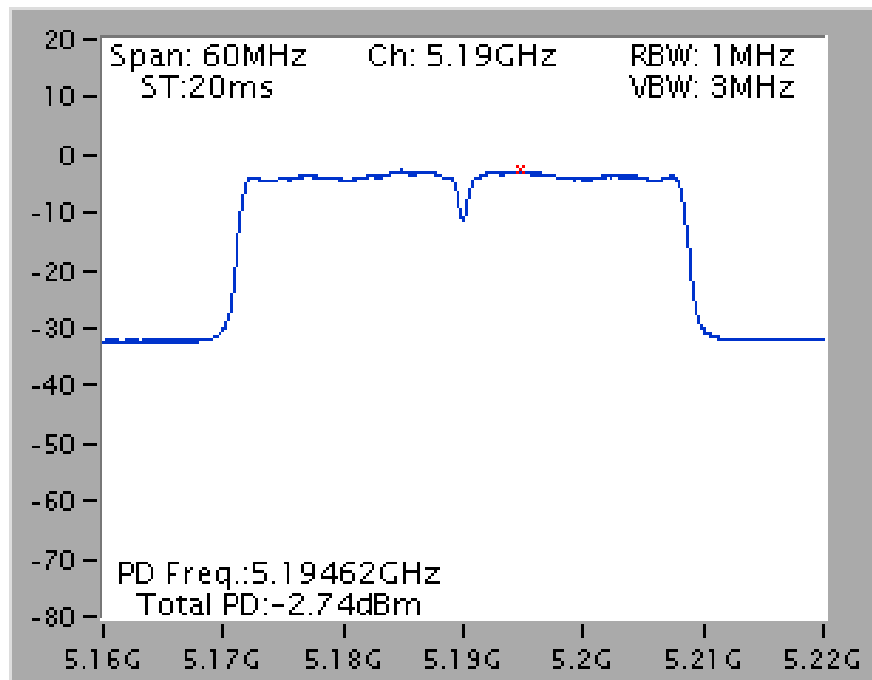
For outdoor use

Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5200 MHz

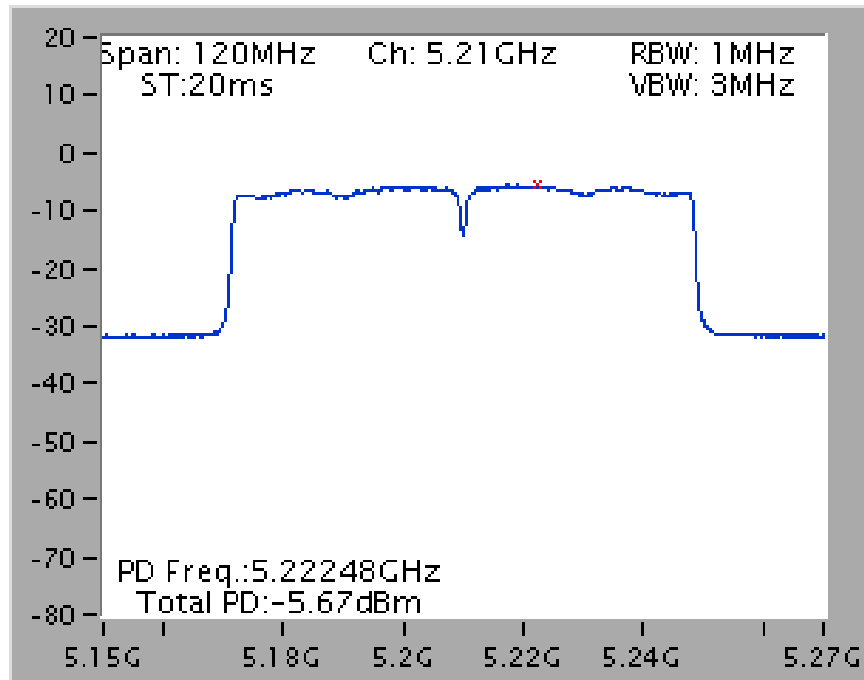


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5190 MHz



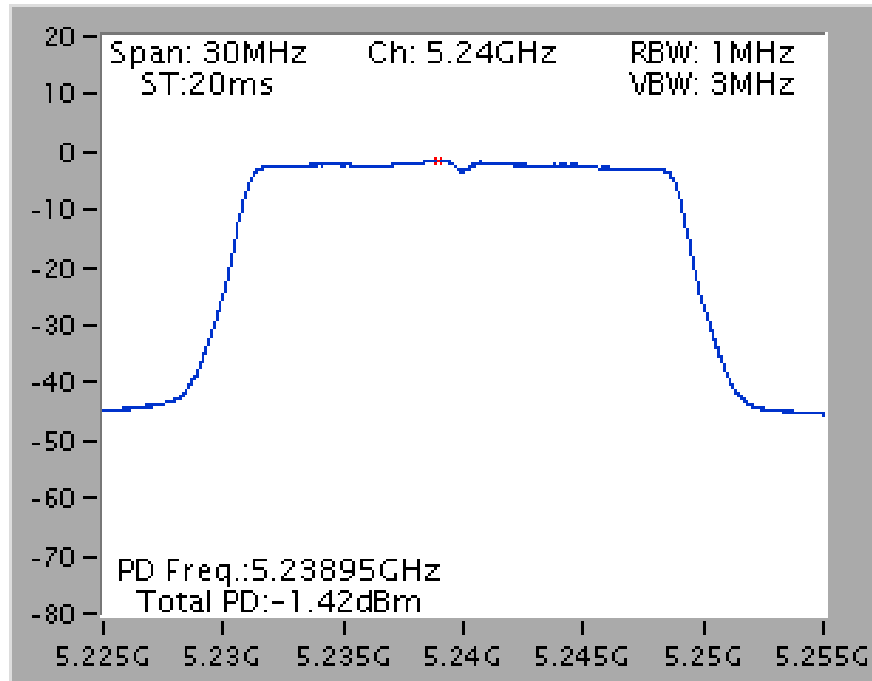


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

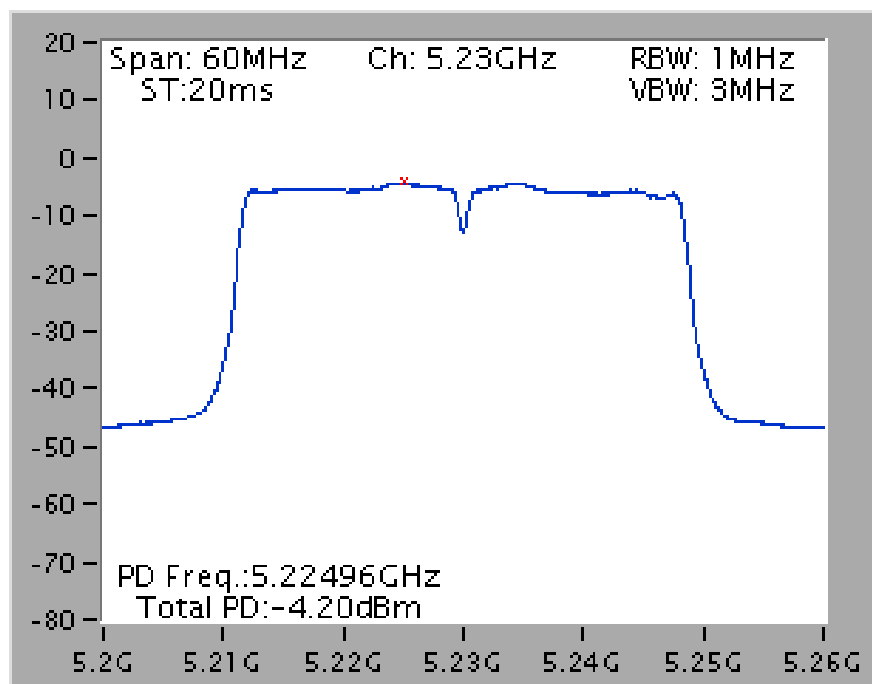


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)

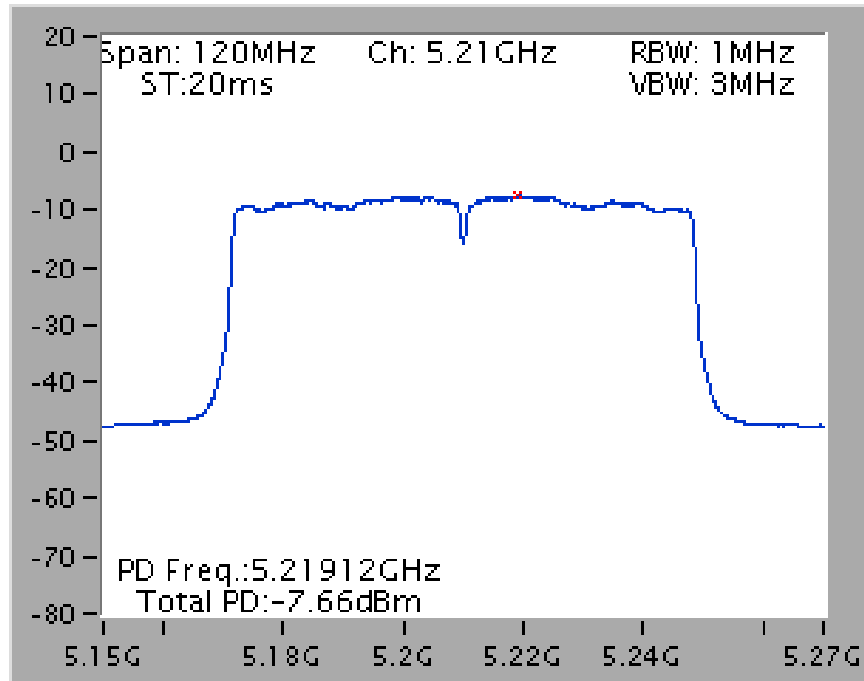
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5240 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz

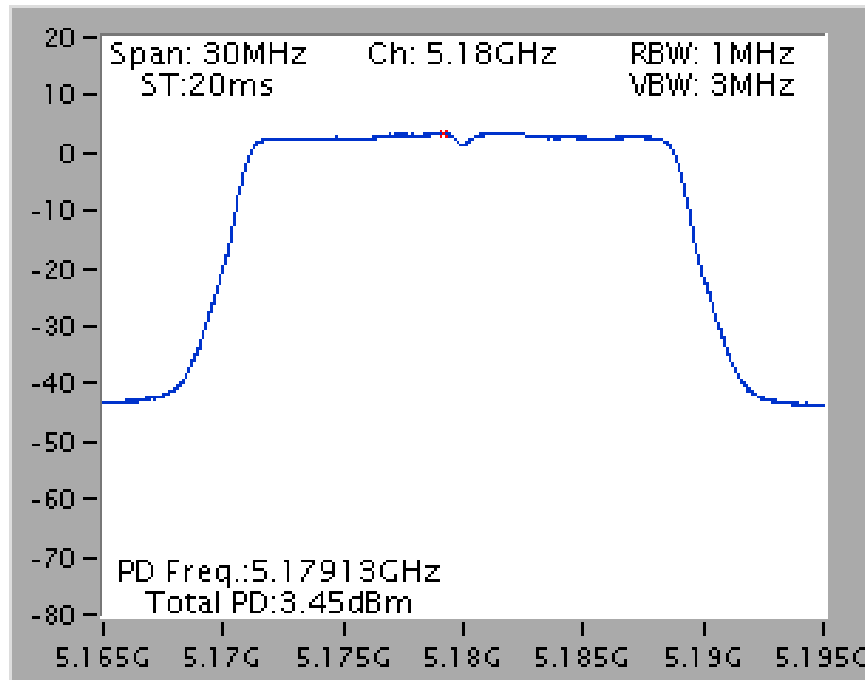


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz

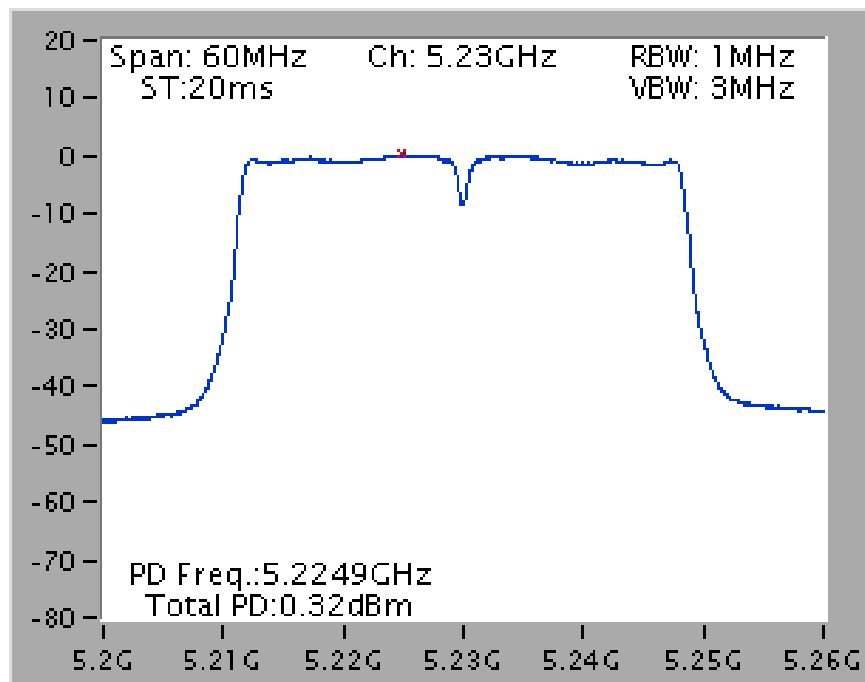


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

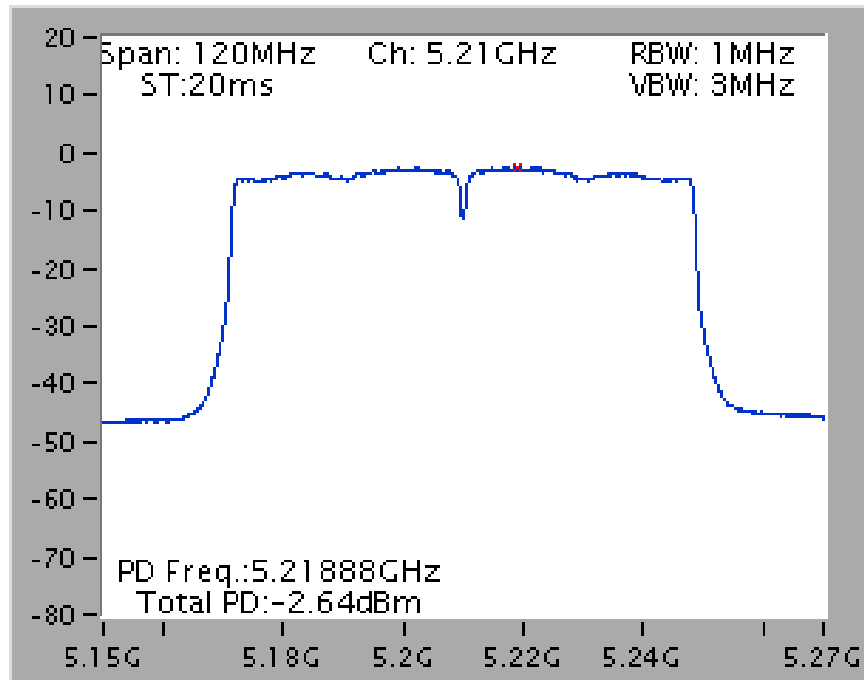
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz

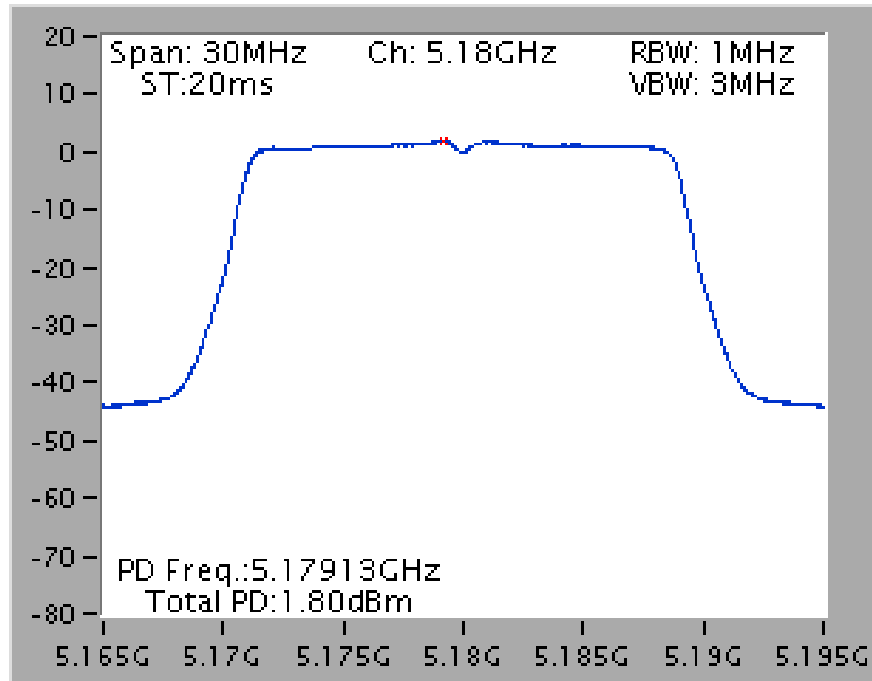


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

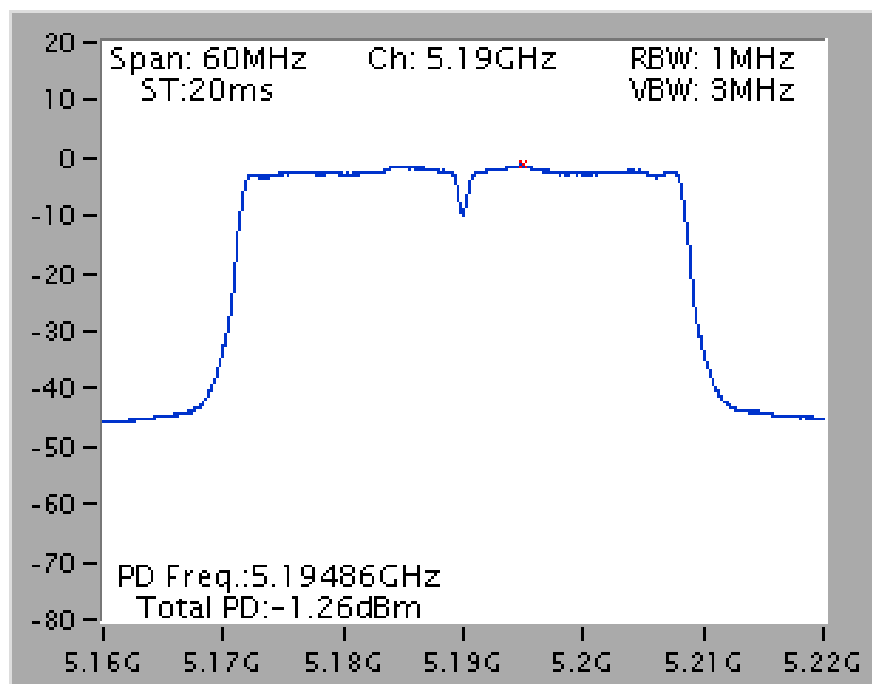


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

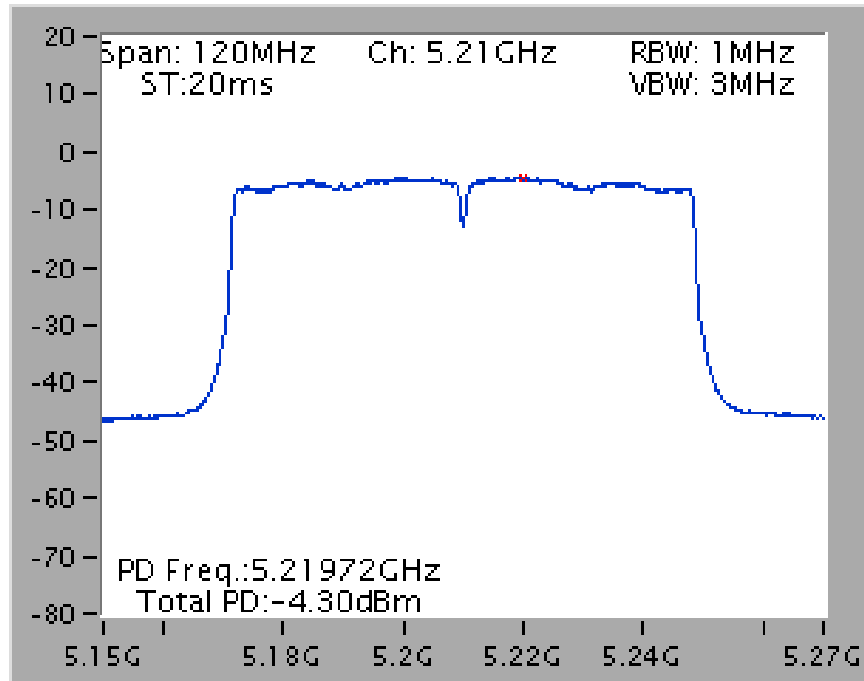
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5190 MHz

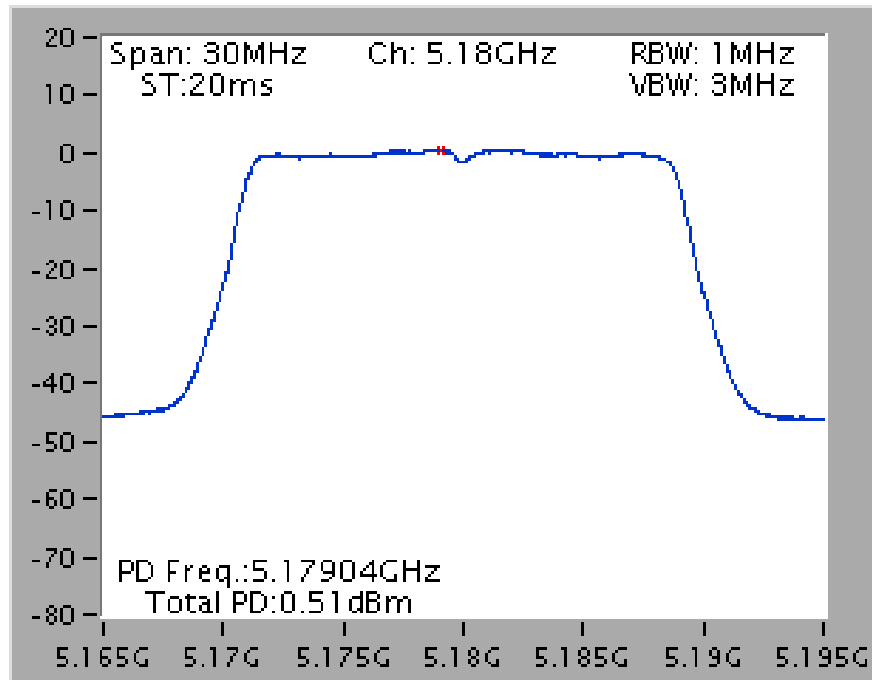


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz

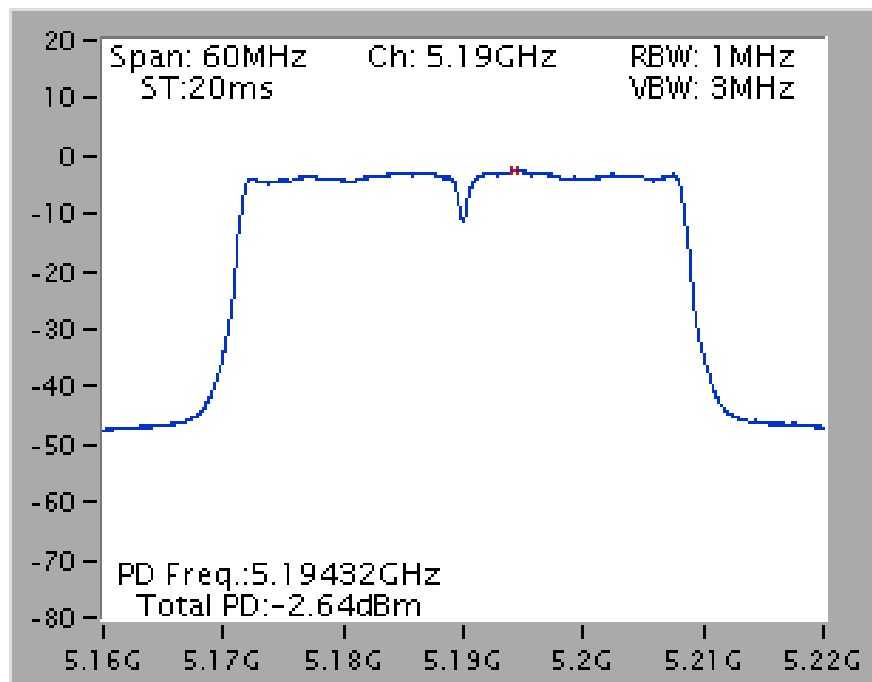


Mode 3 (Ant. 4 Panel antenna / 5.1dBi / 2TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz

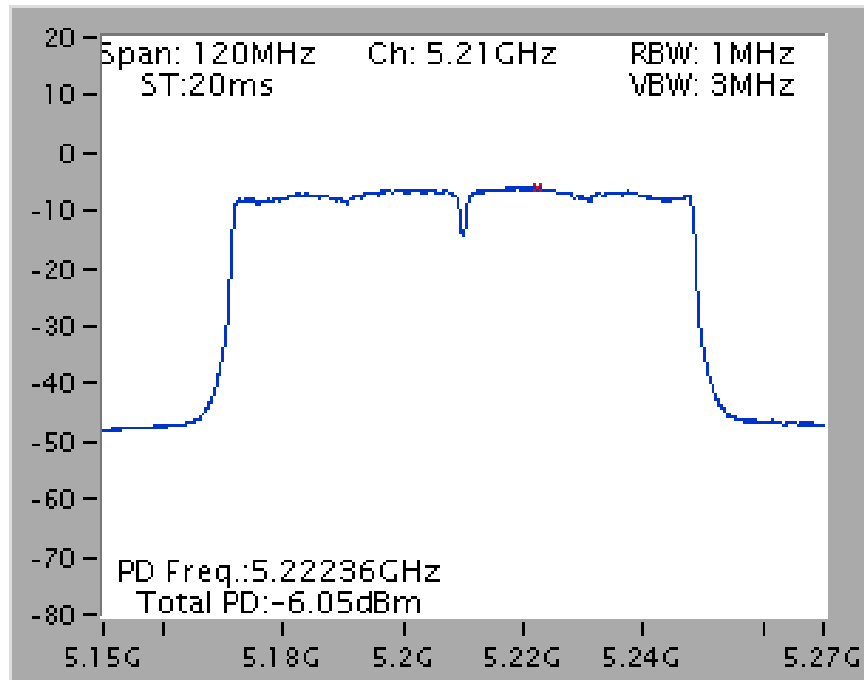


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5190 MHz



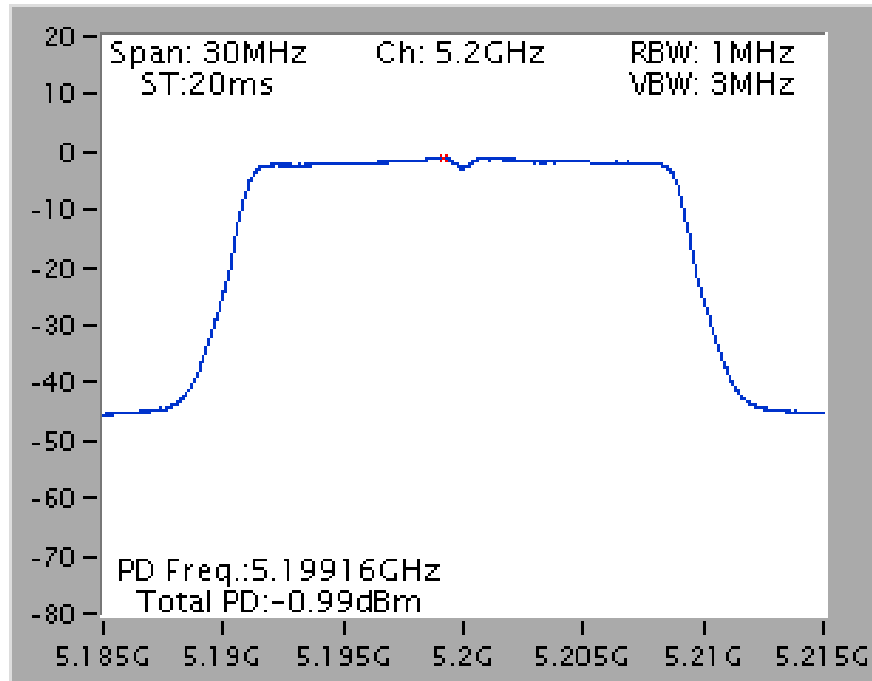


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

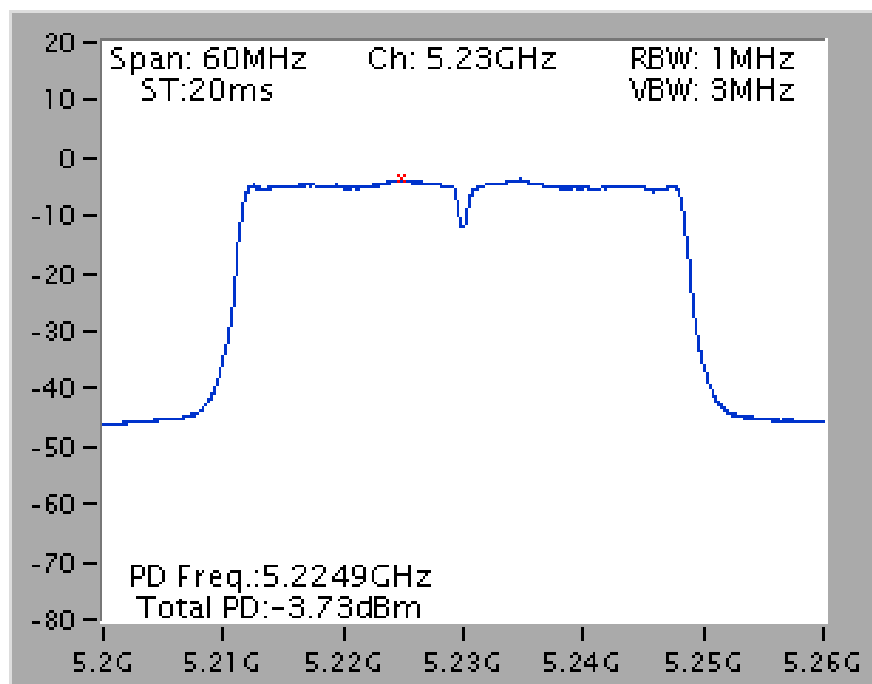


Mode 3 (Ant. 4 Panel antenna / 5.1dBi / 3TX)

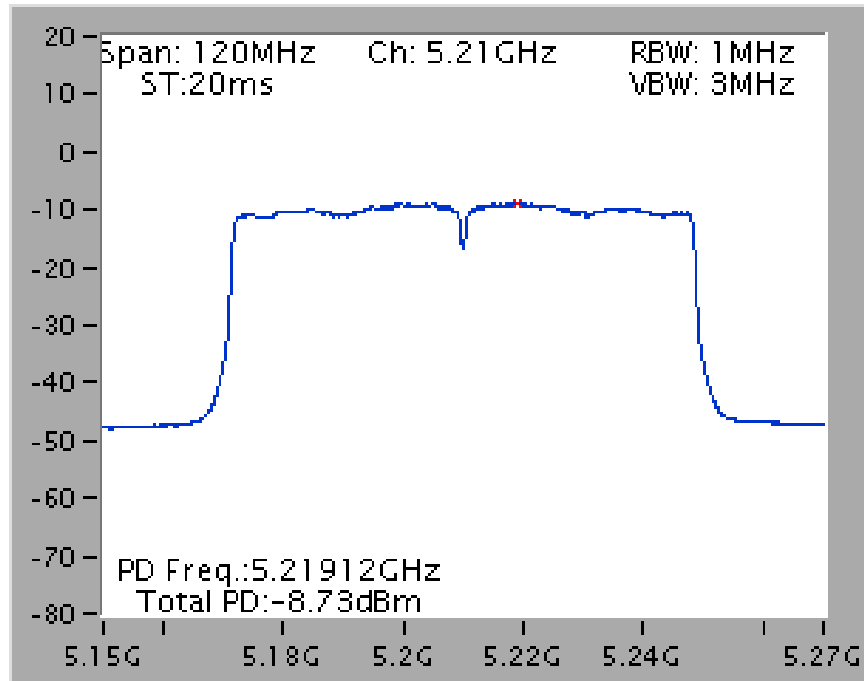
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz



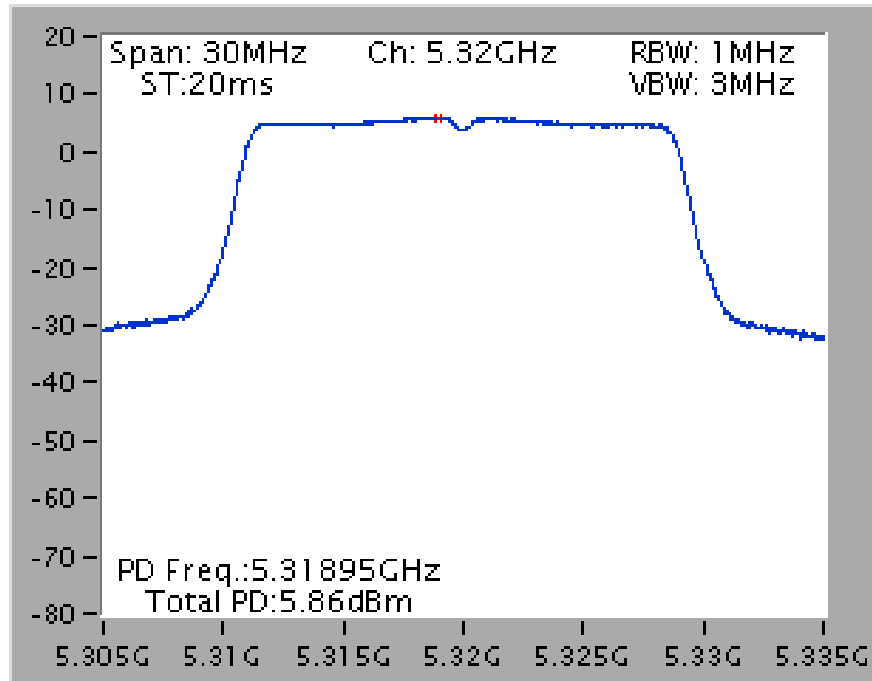
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz



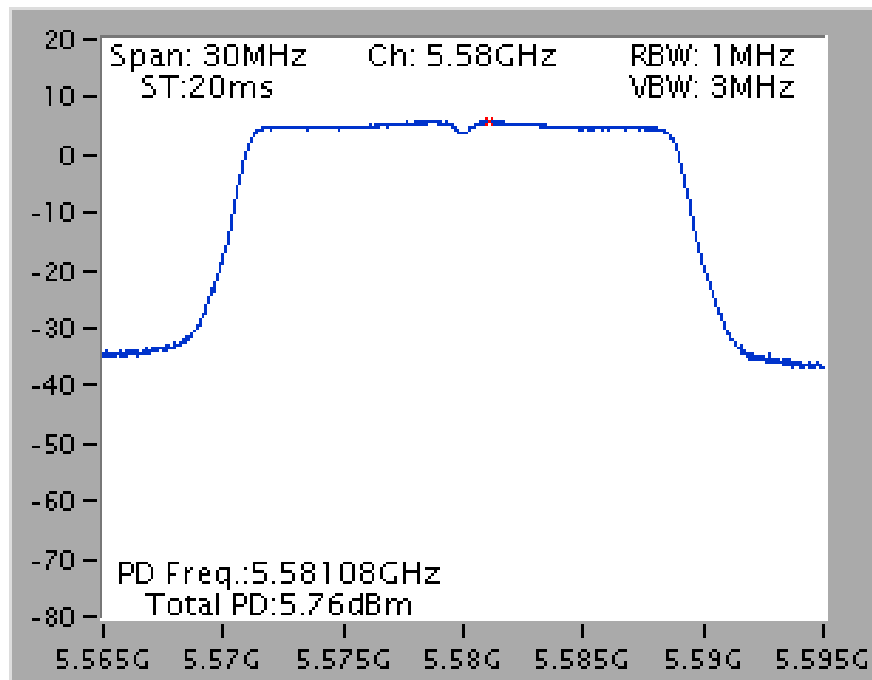
For indoor / outdoor use

Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)

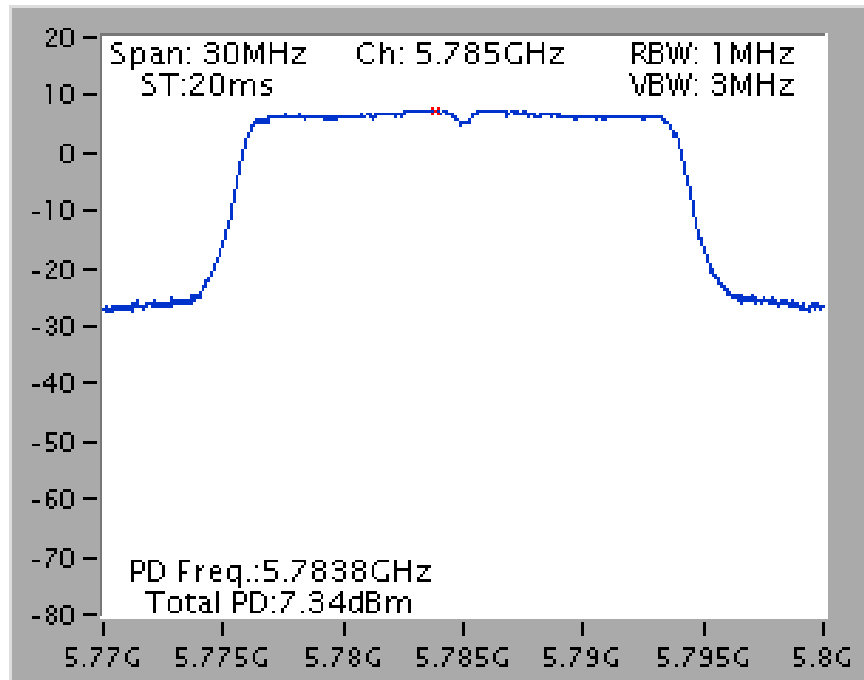
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5320 MHz



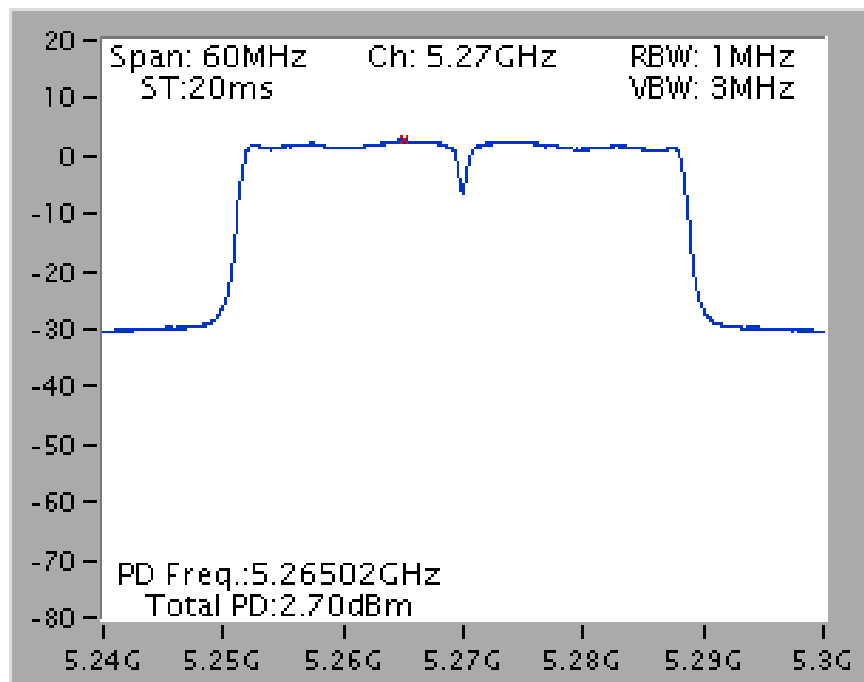
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5580 MHz



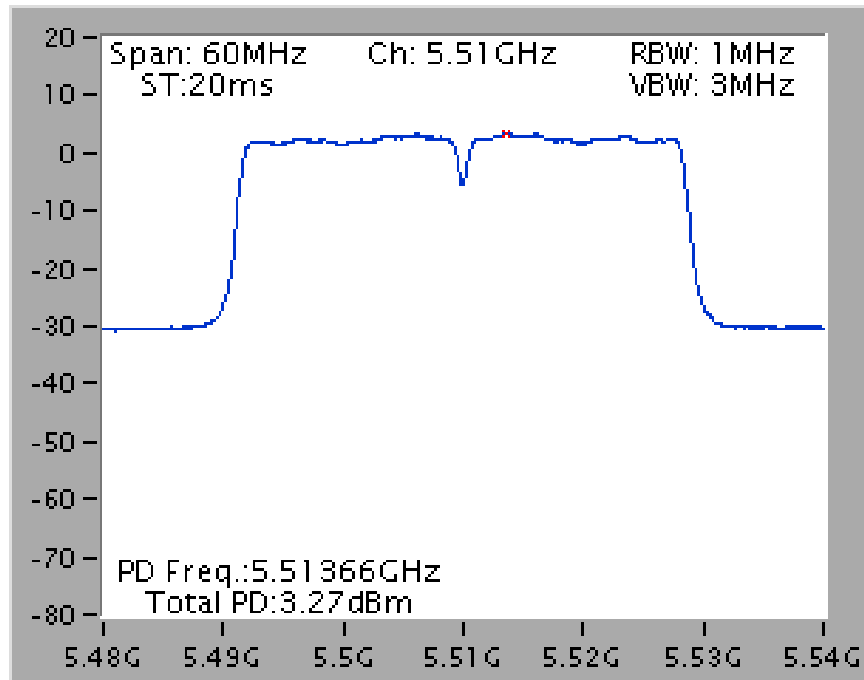
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



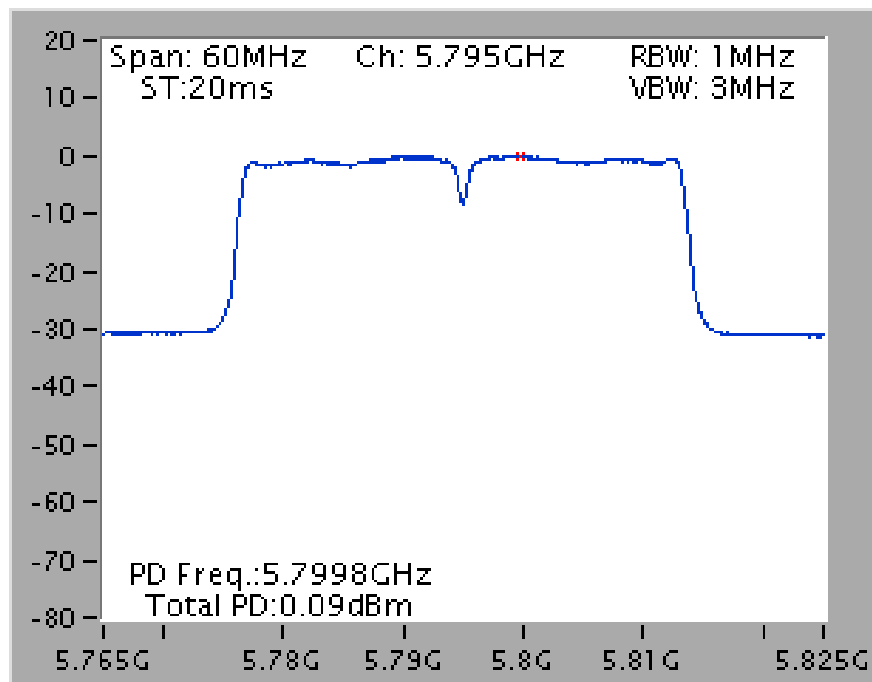
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5270 MHz



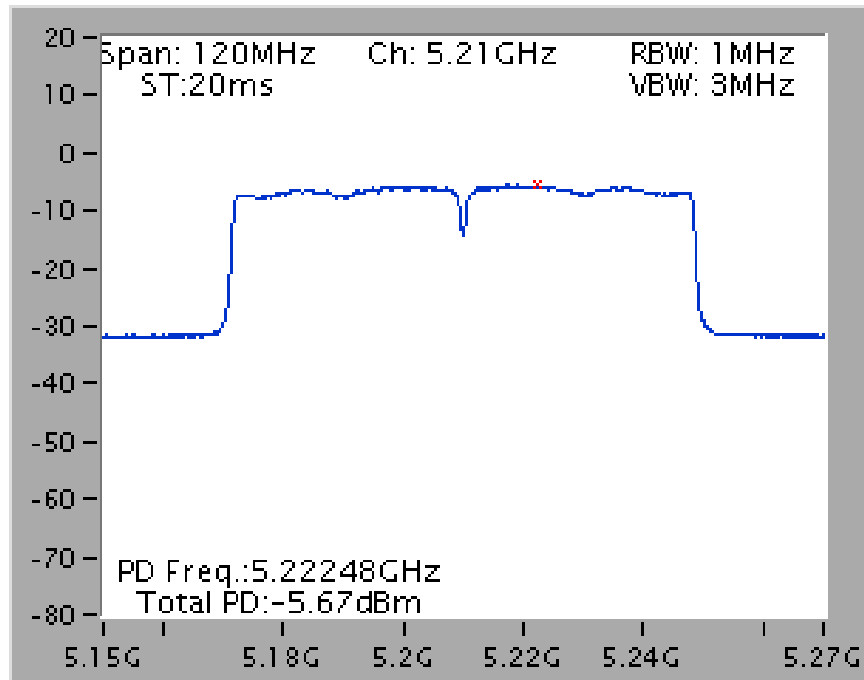
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5510 MHz



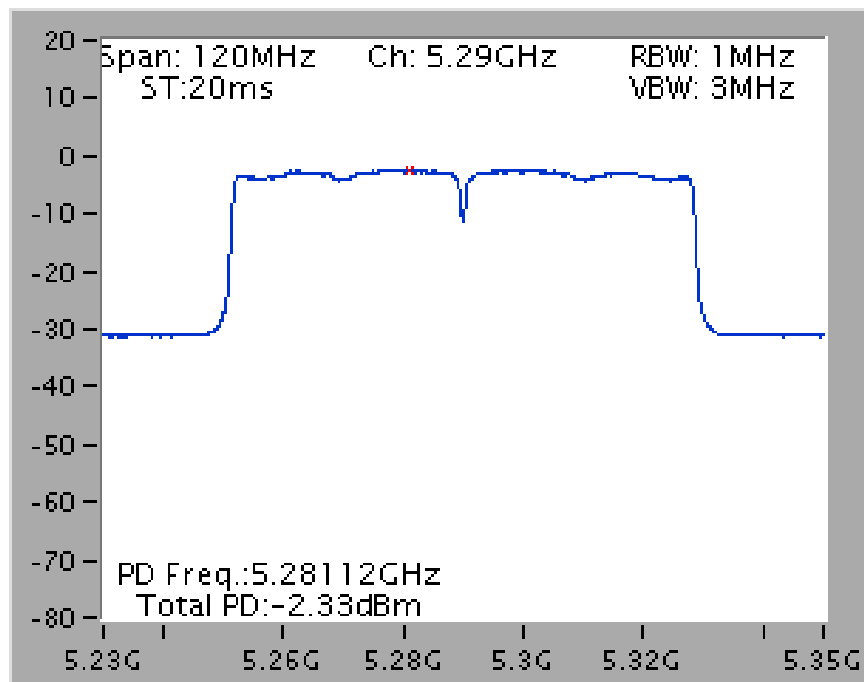
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



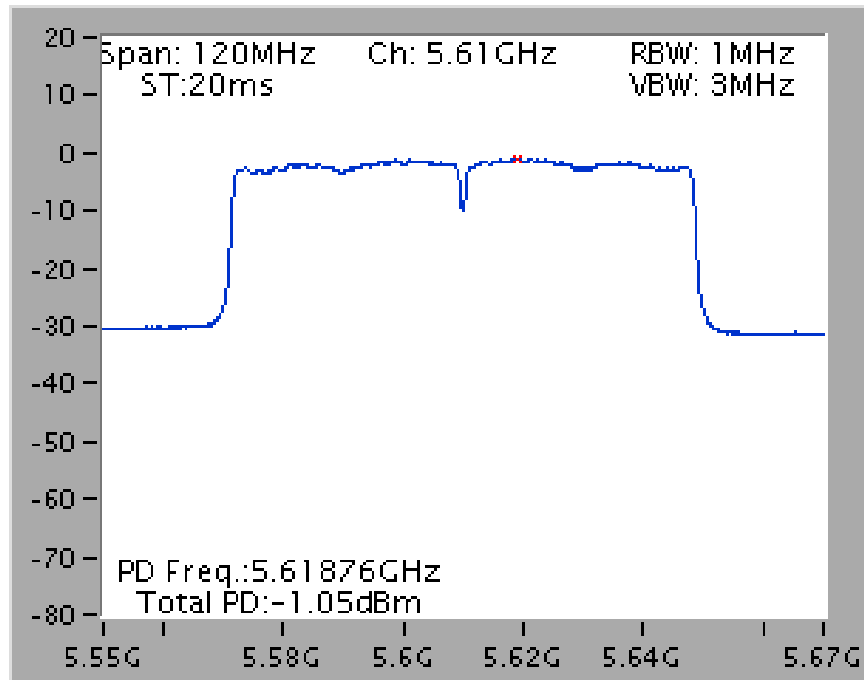
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz



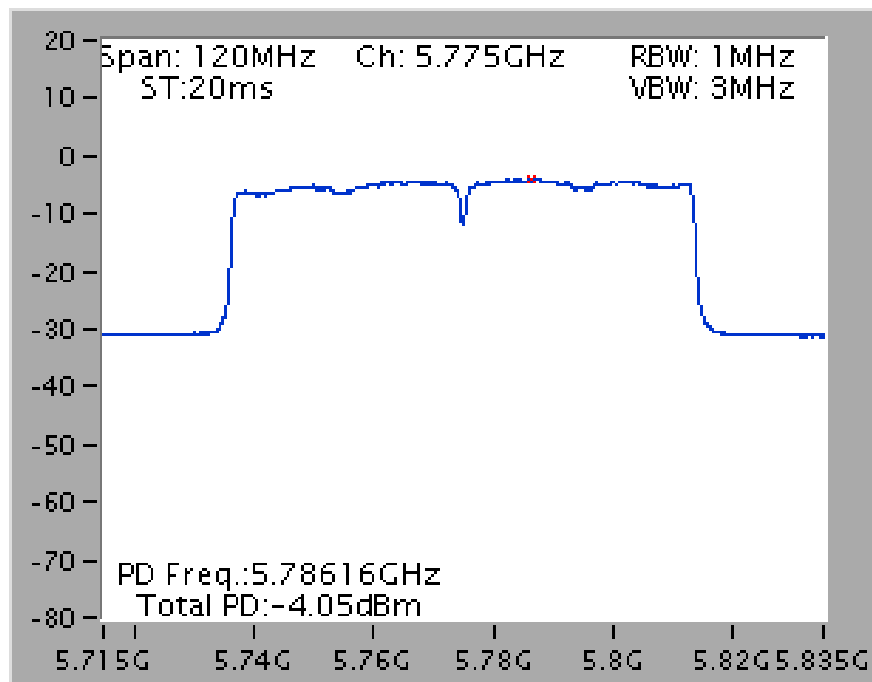
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5610 MHz



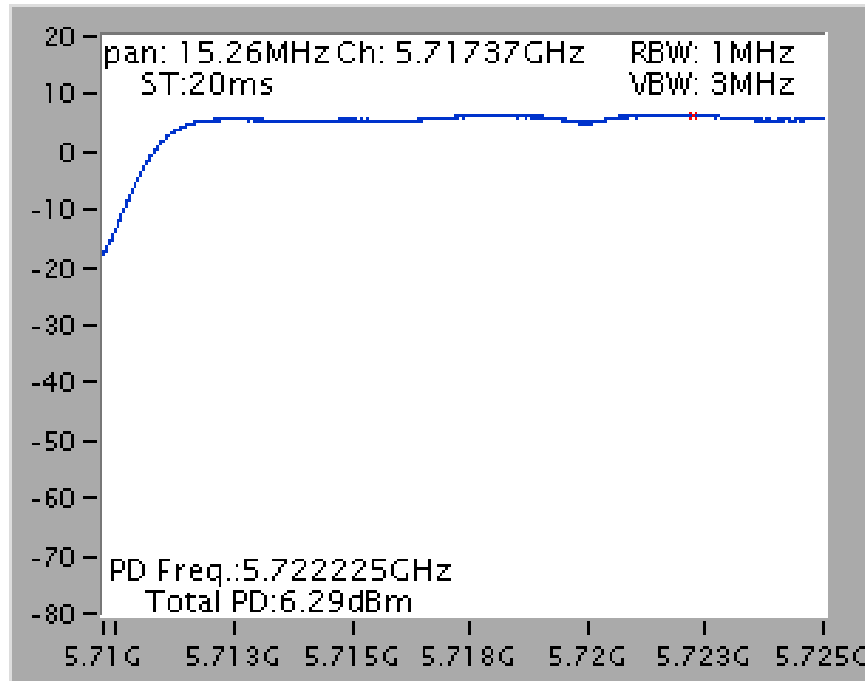
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz



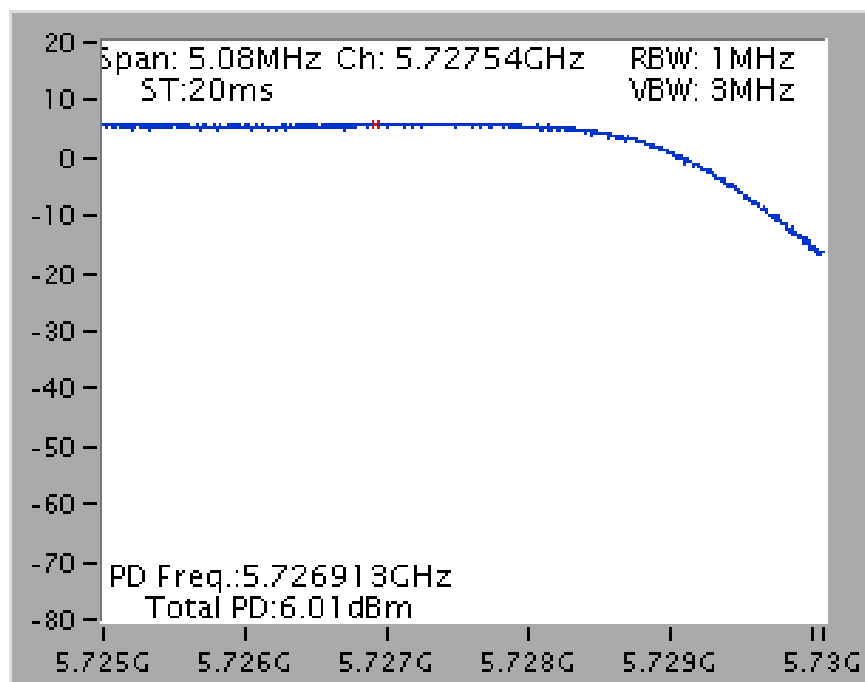


### Straddle Channel

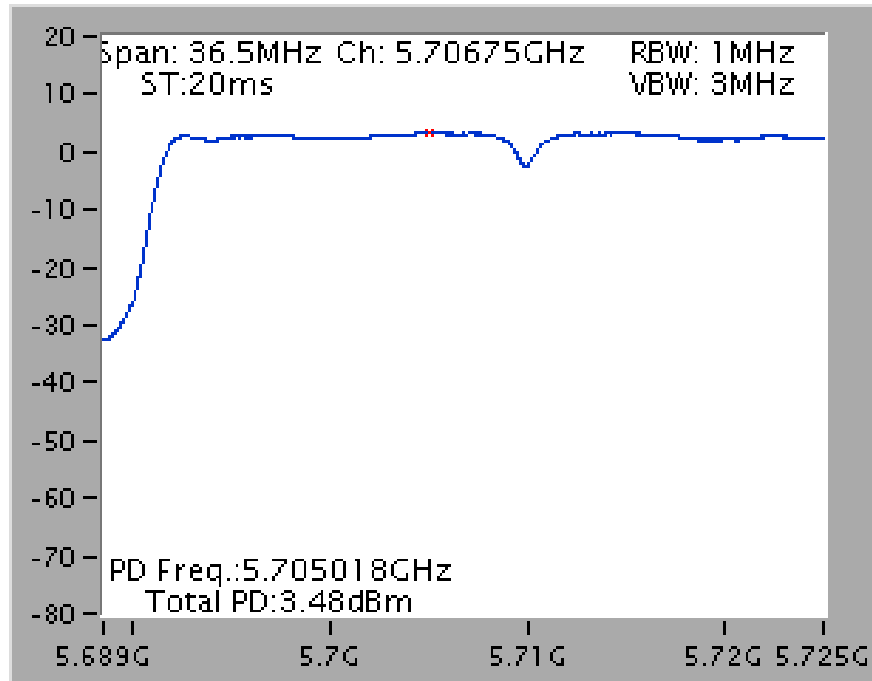
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 2C)



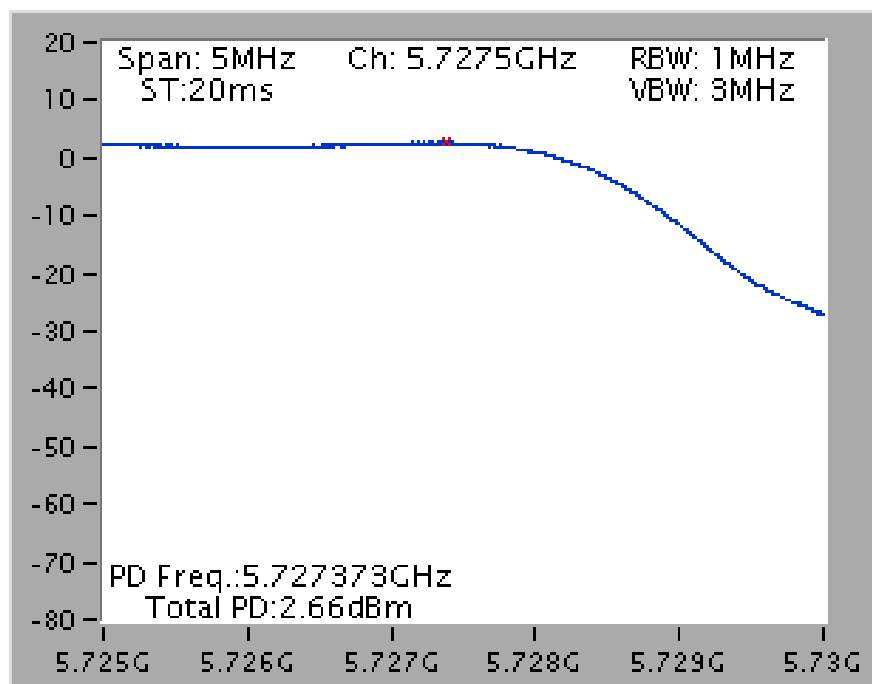
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 3)



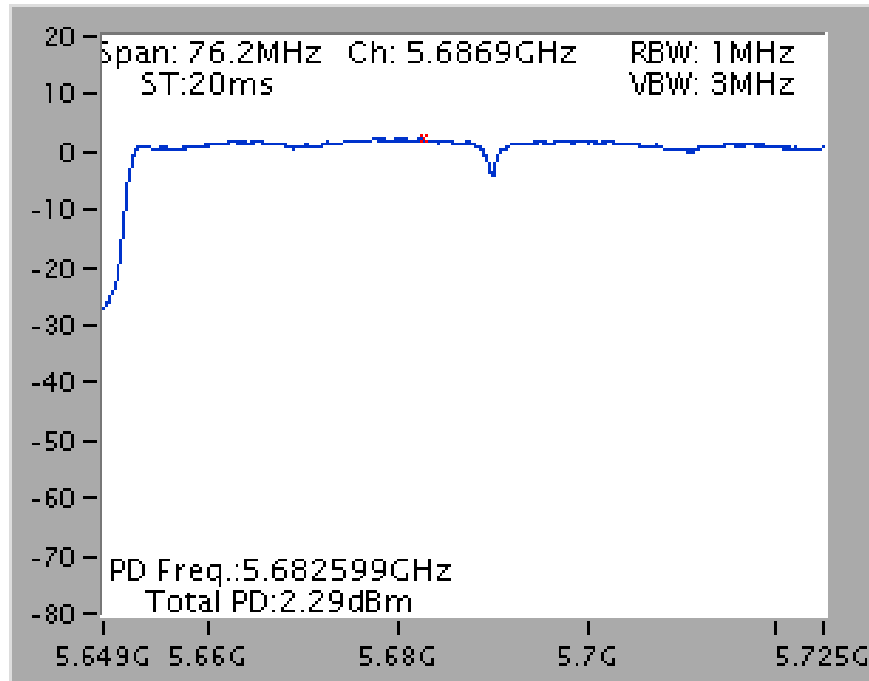
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 2C)



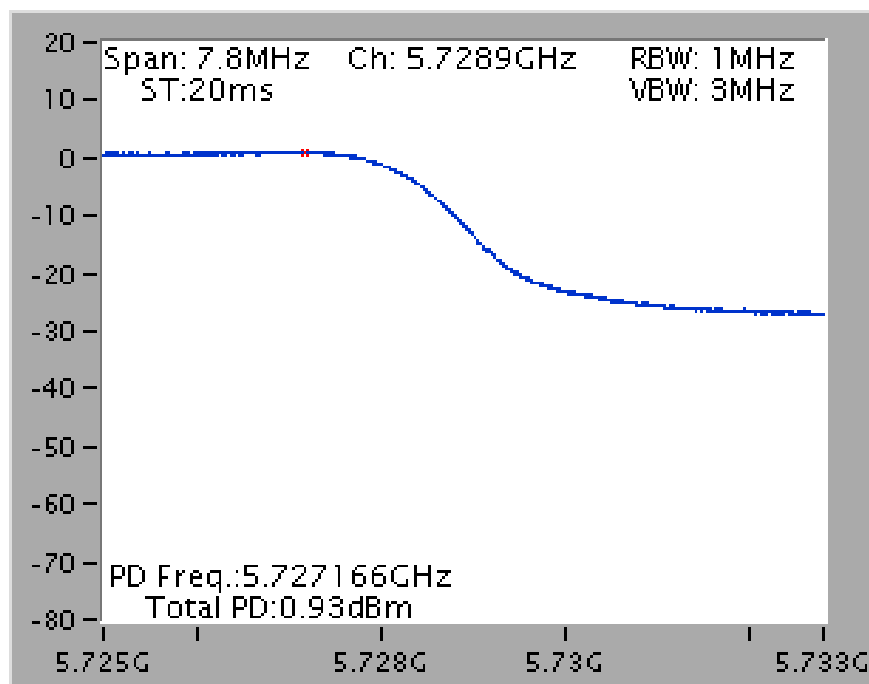
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 2C)

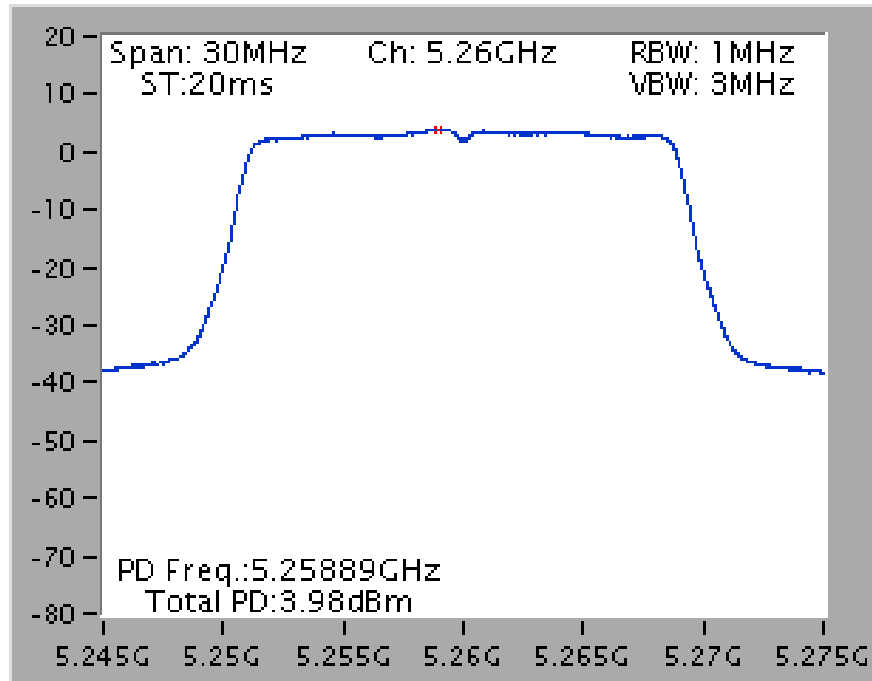


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 3)

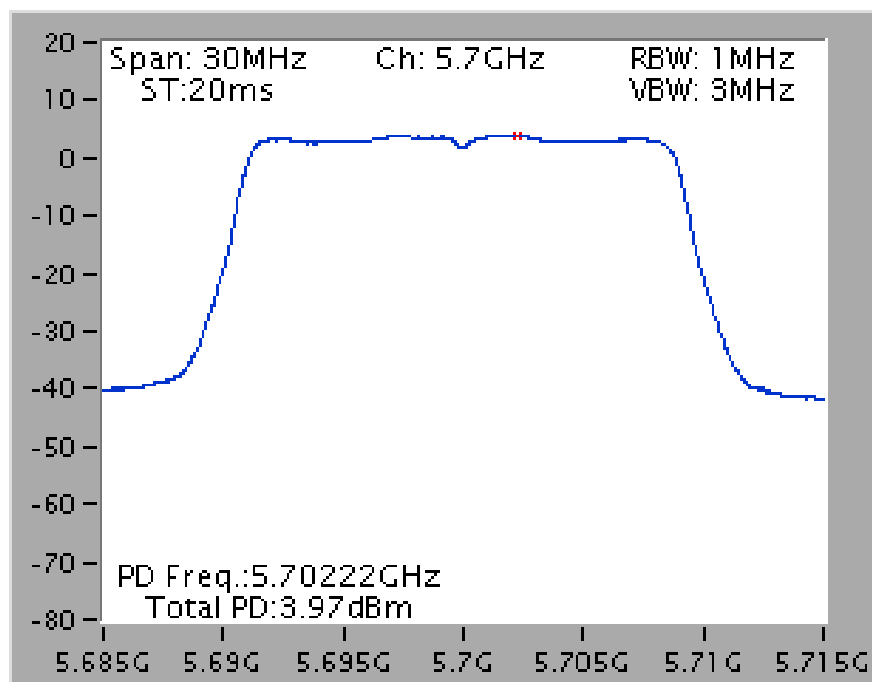


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)

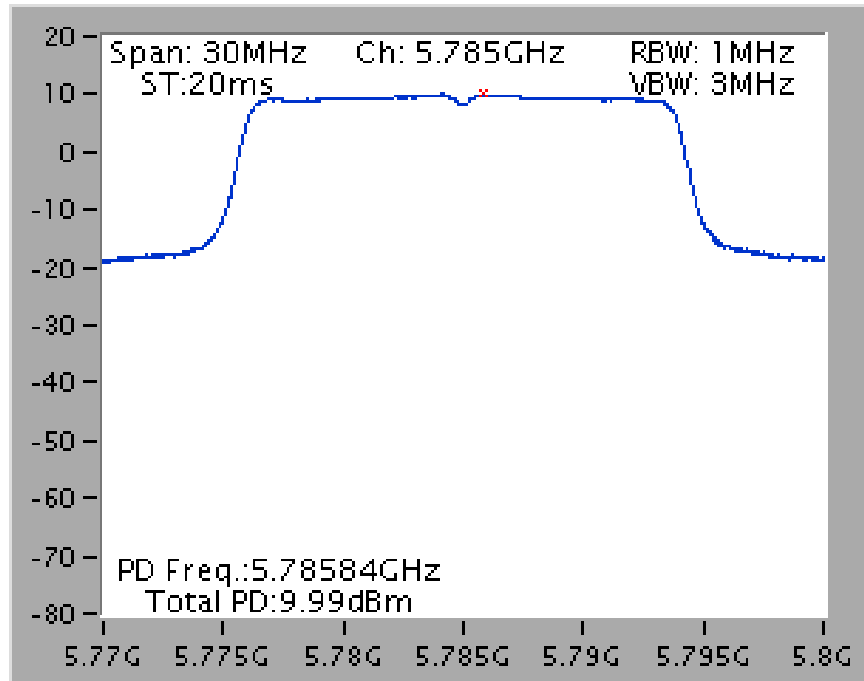
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5260 MHz



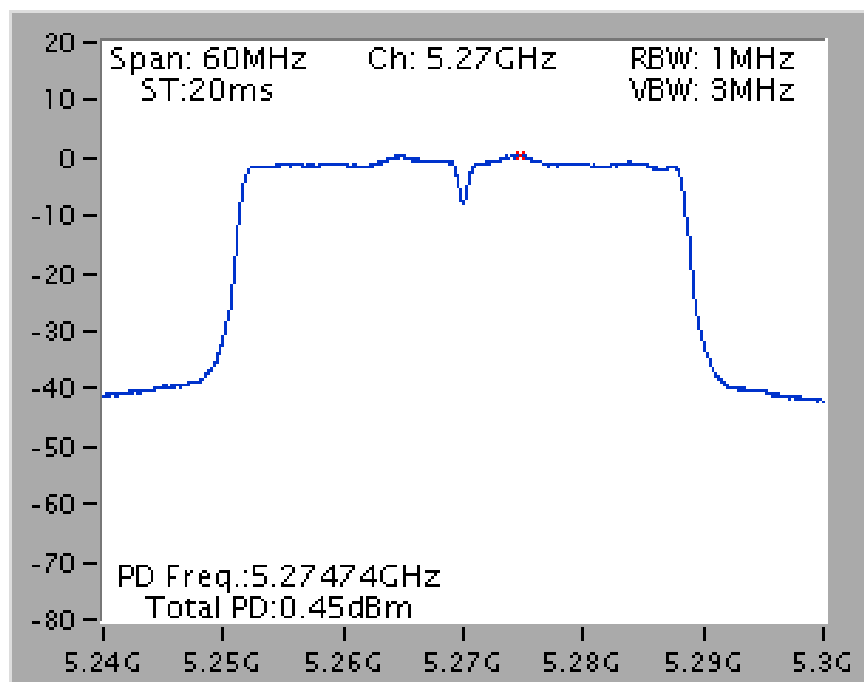
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5700 MHz



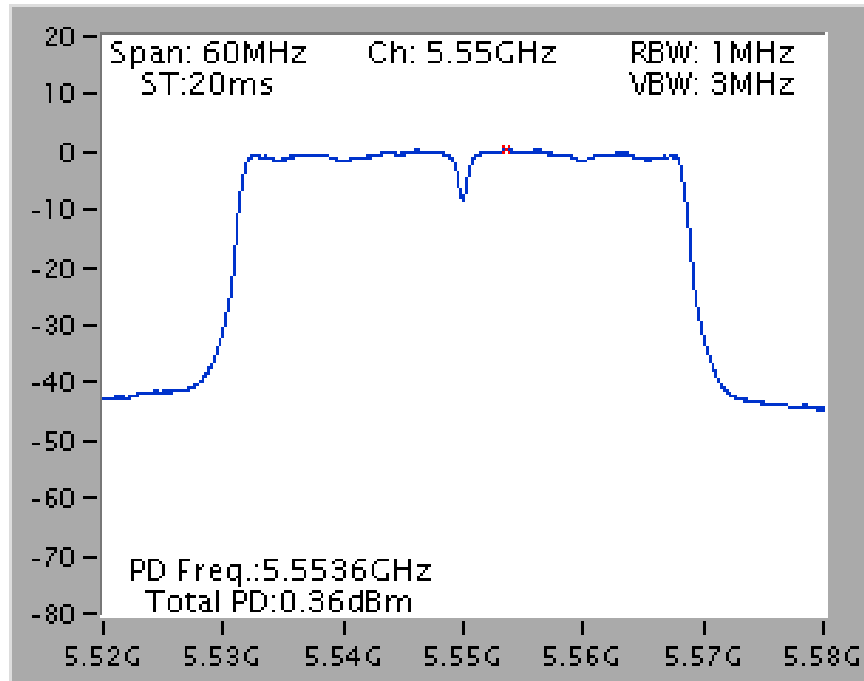
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5785 MHz



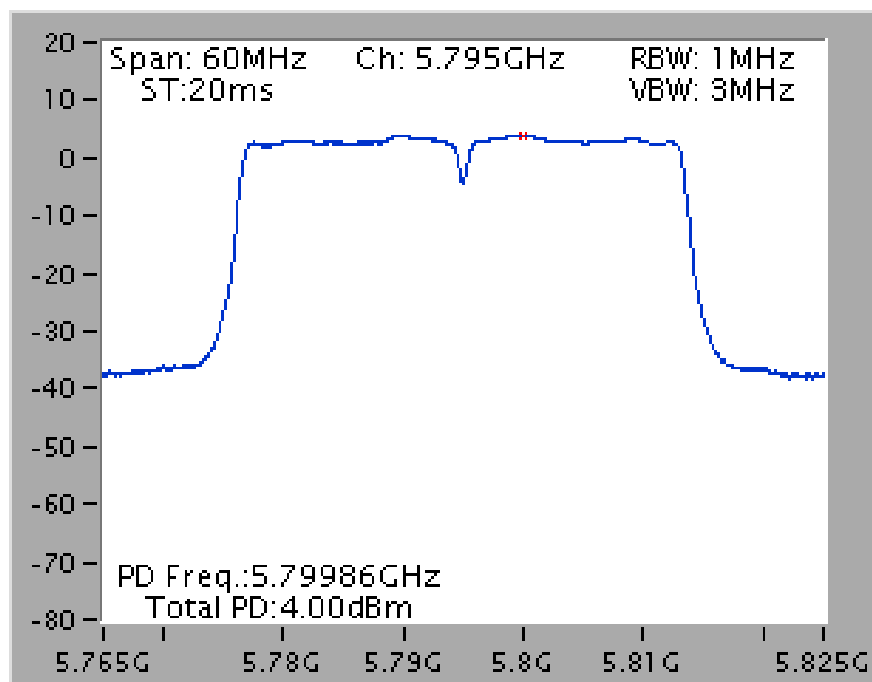
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5270 MHz



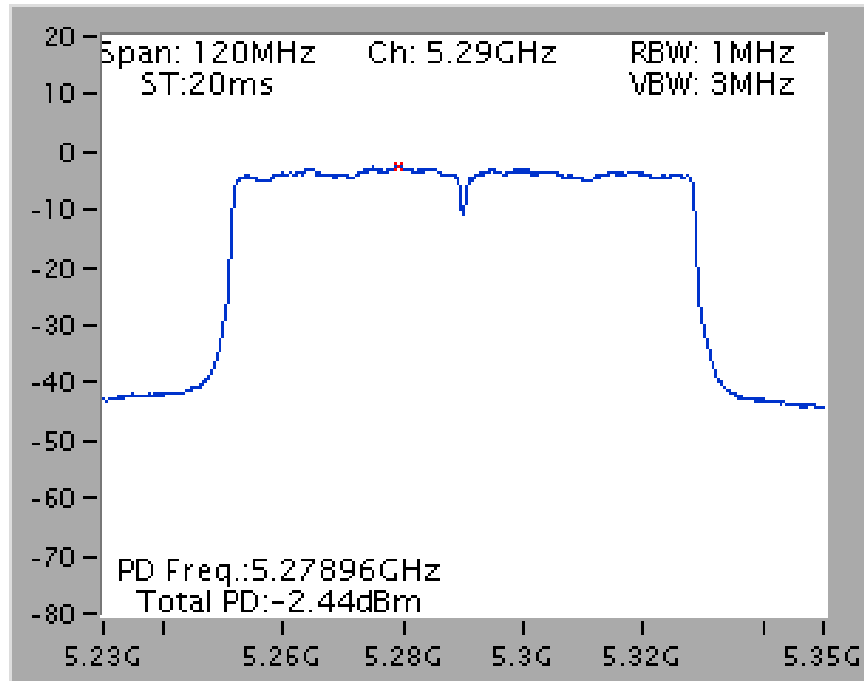
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5550 MHz



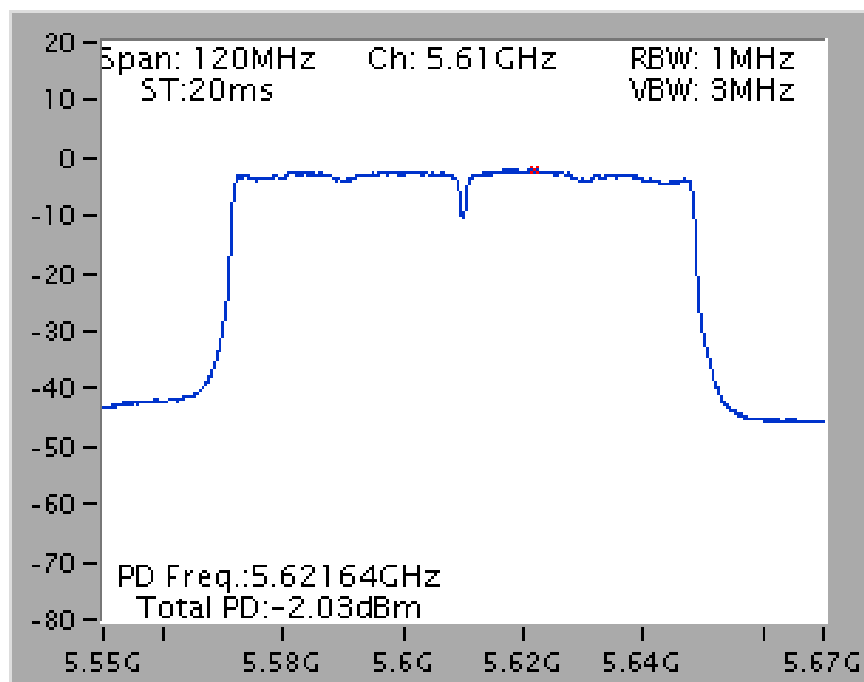
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5795 MHz



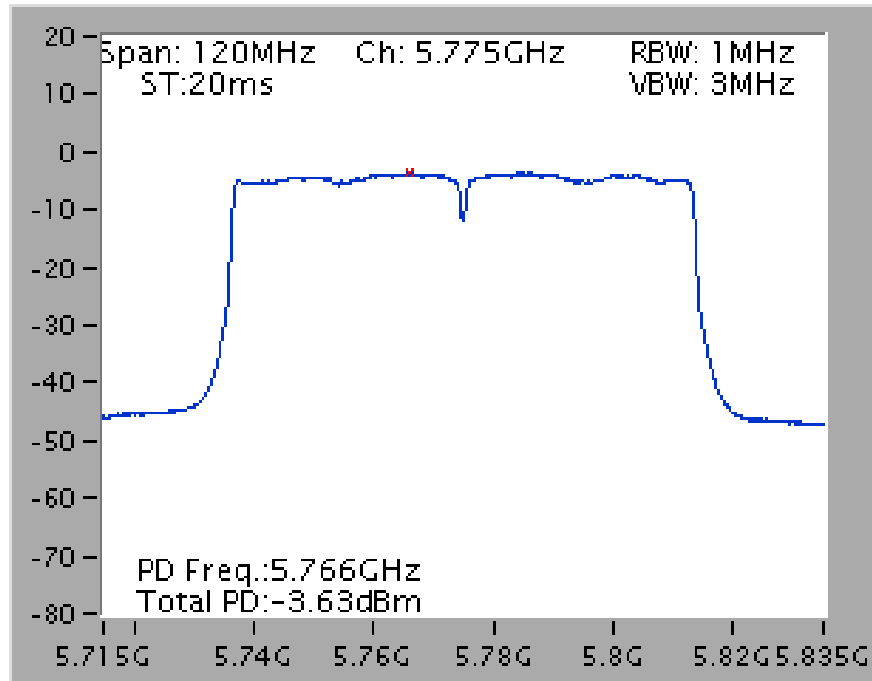
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5610 MHz



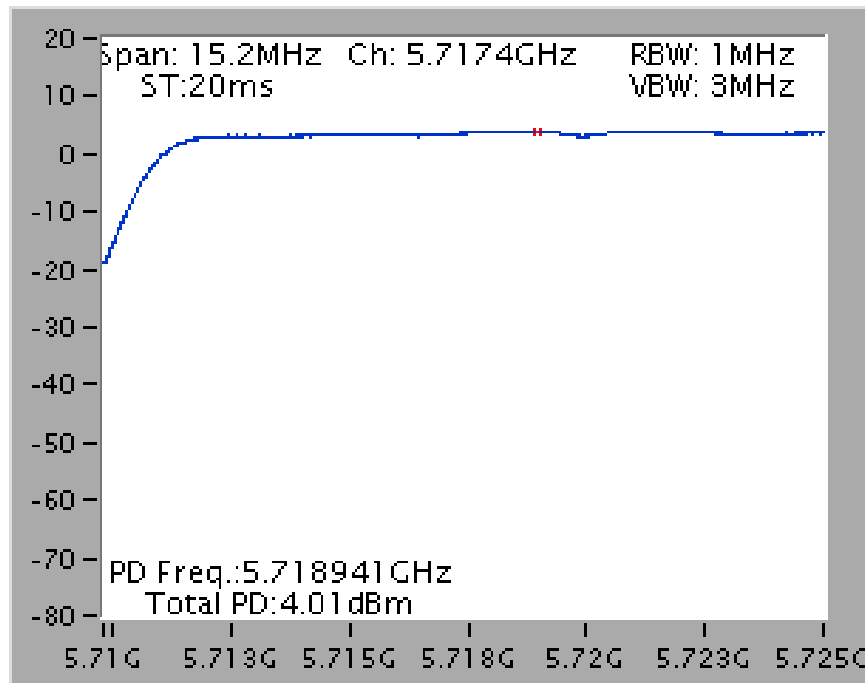
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5775 MHz



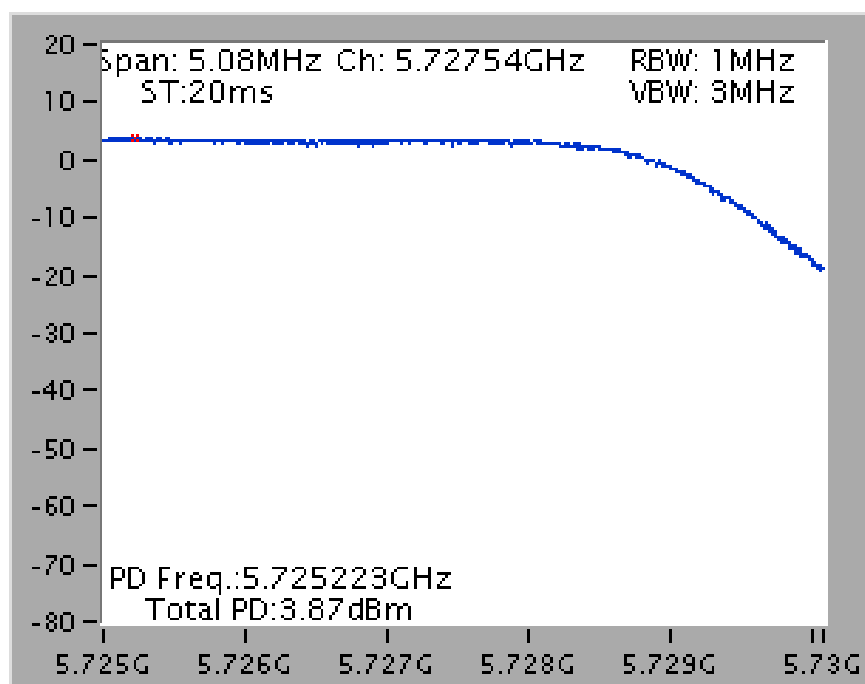


### Straddle Channel

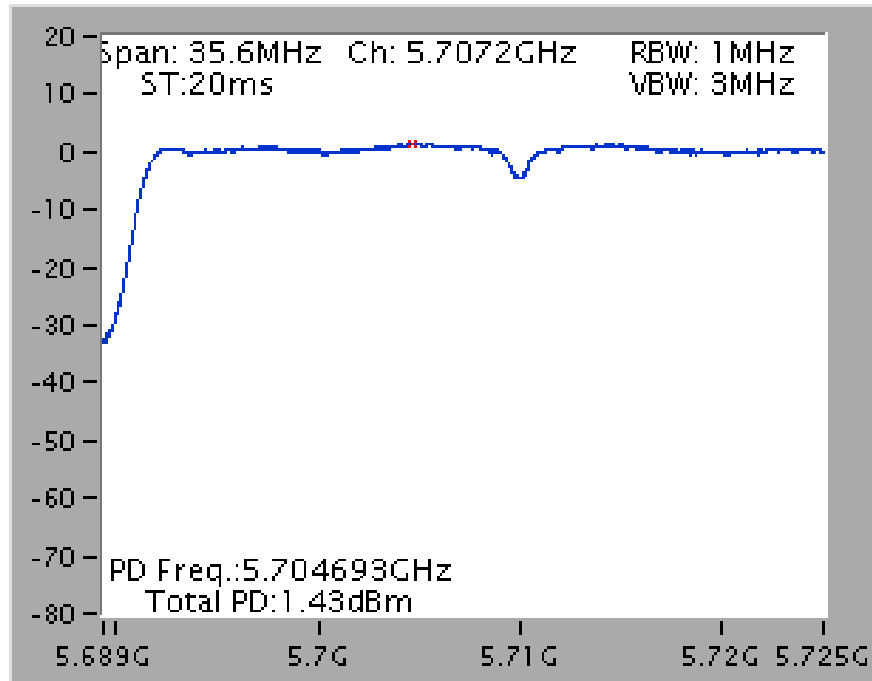
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 2C)



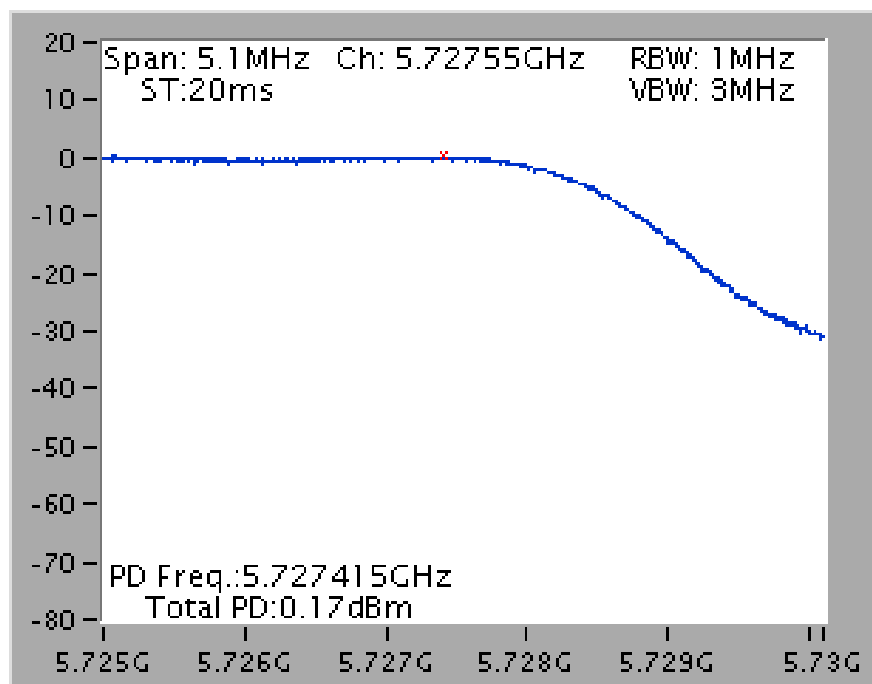
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 3)



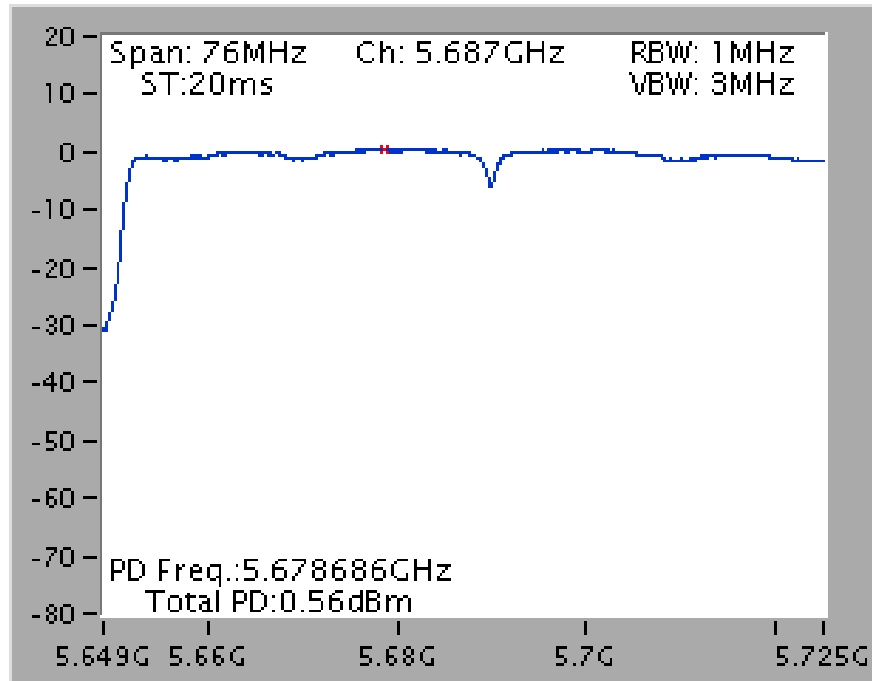
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5710 MHz (UNII 2C)**



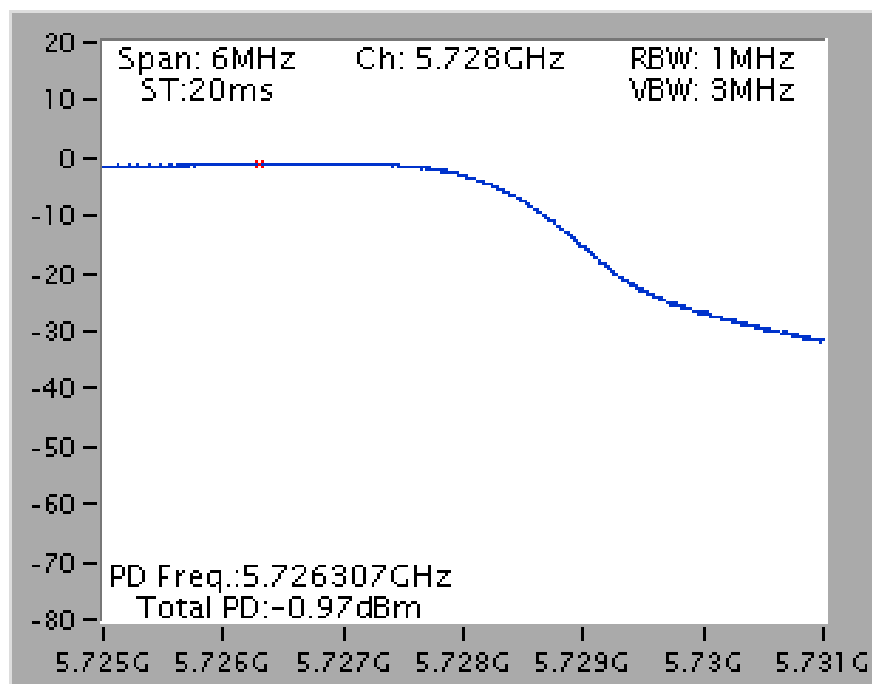
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5710 MHz (UNII 3)**



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 2C)

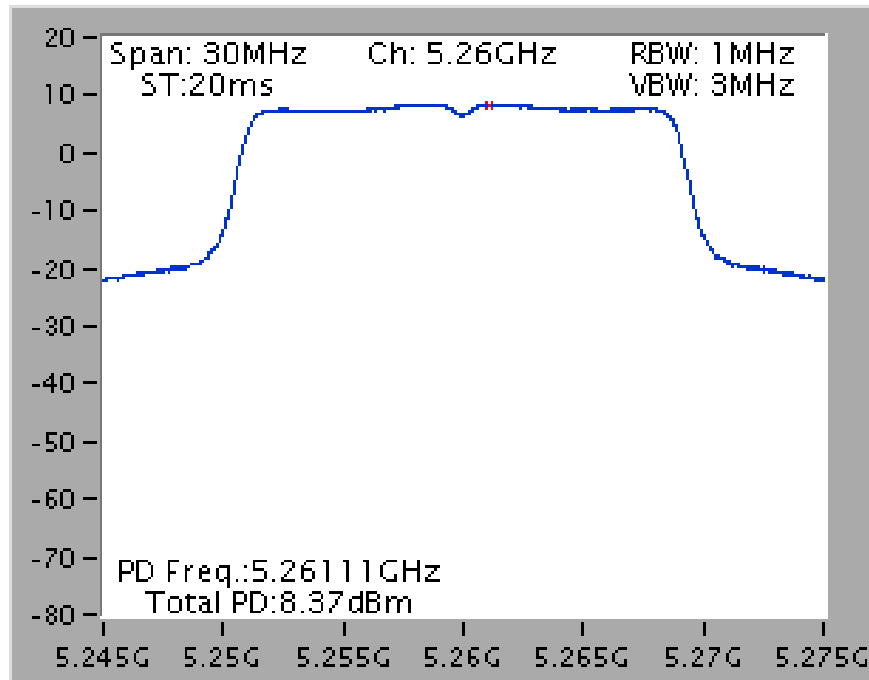


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 3)

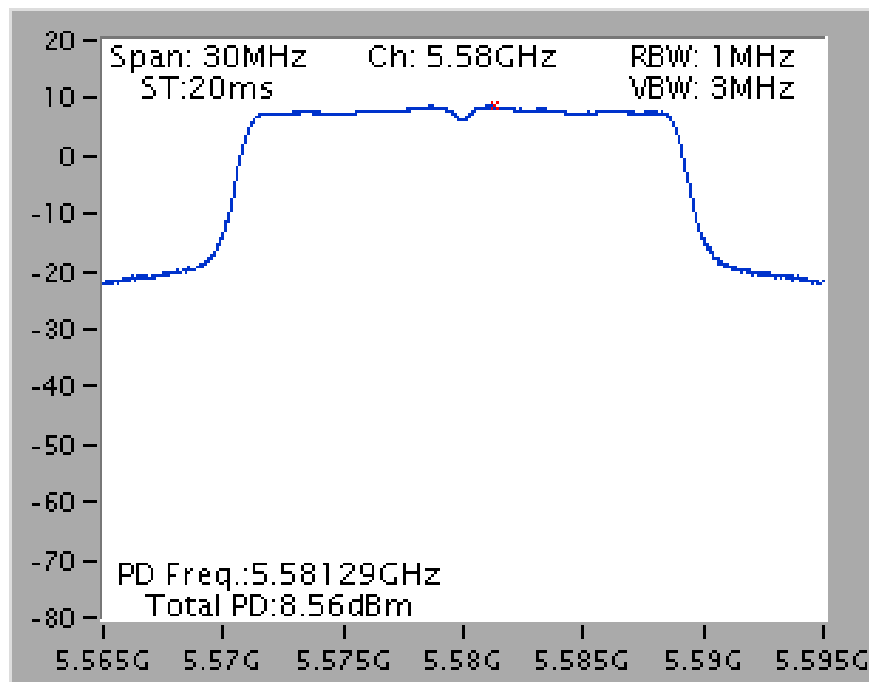


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

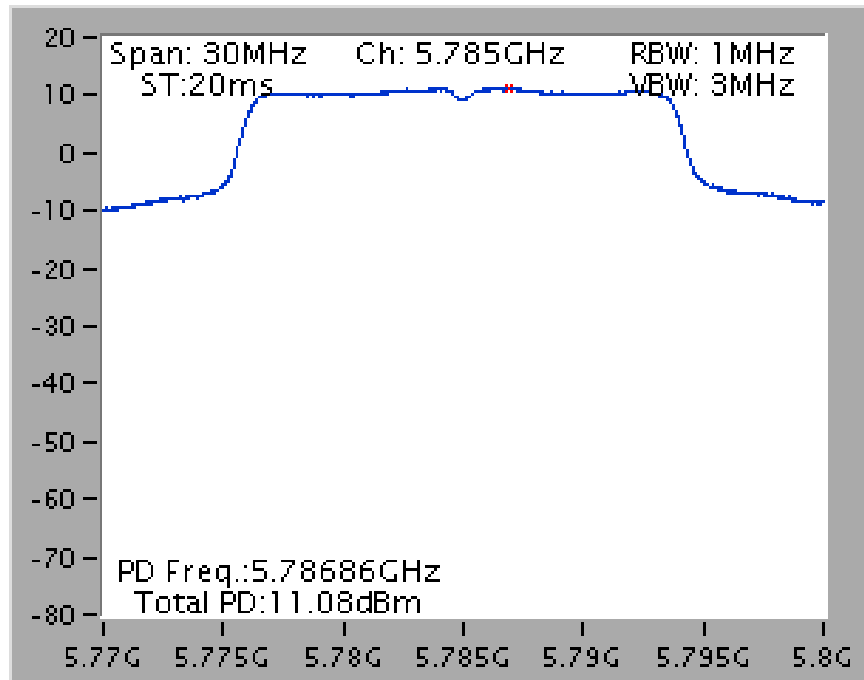
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5260 MHz



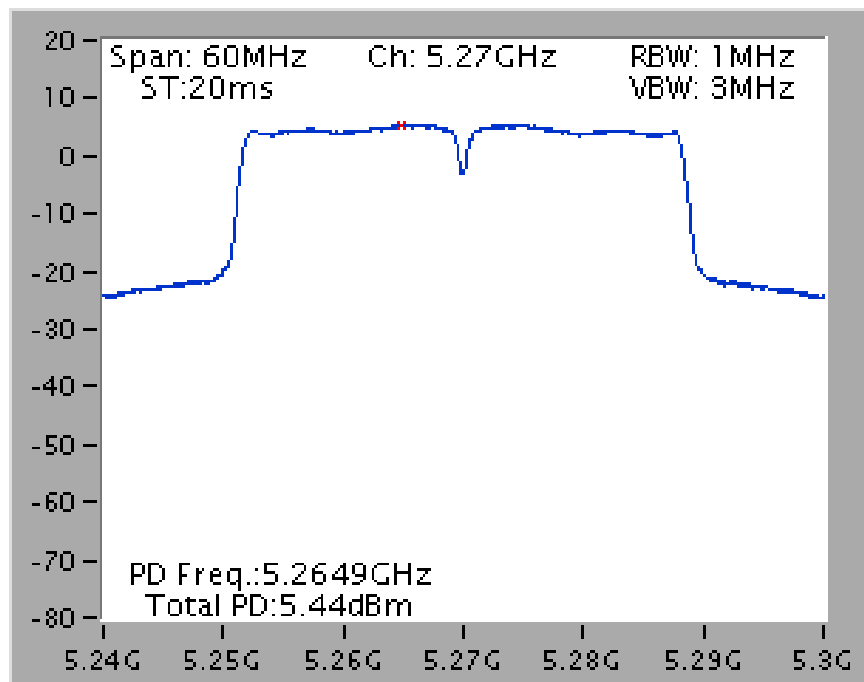
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5580 MHz



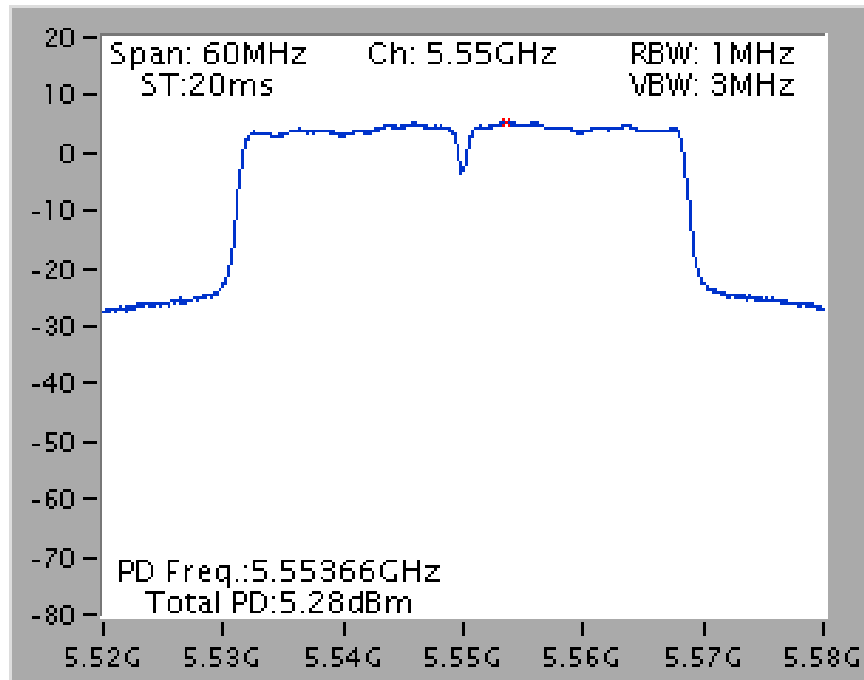
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



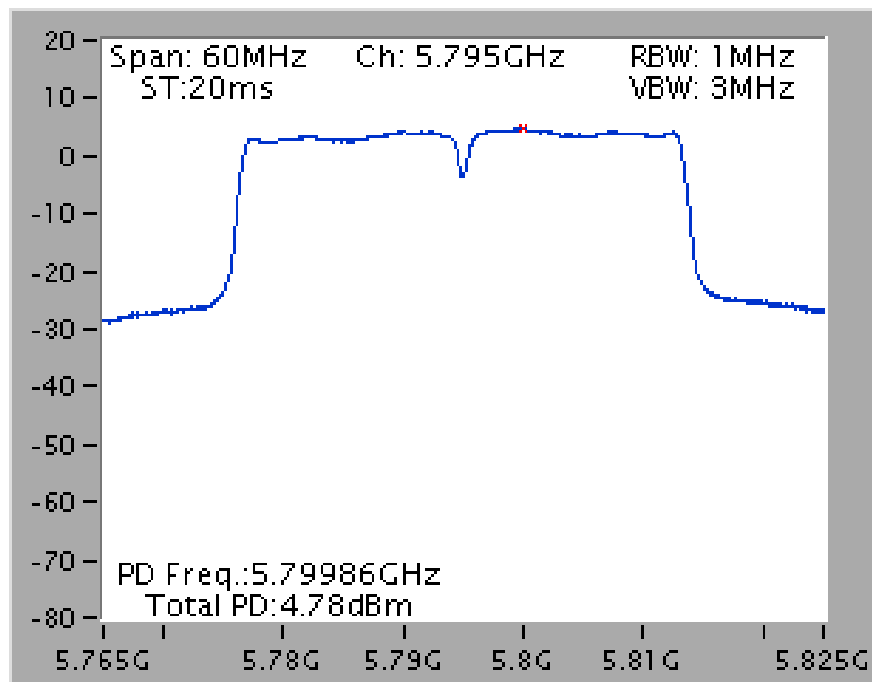
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5270 MHz



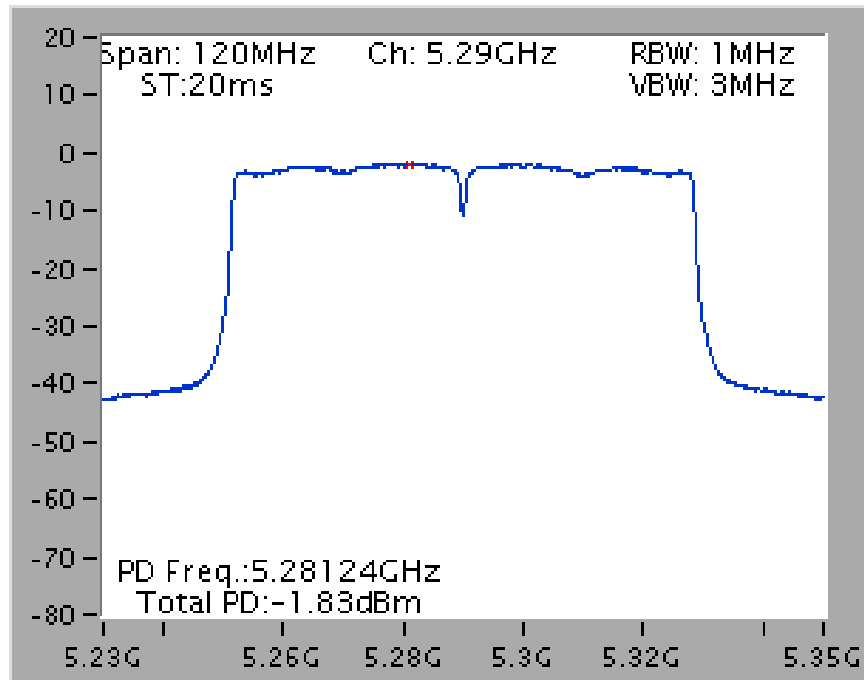
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5550 MHz



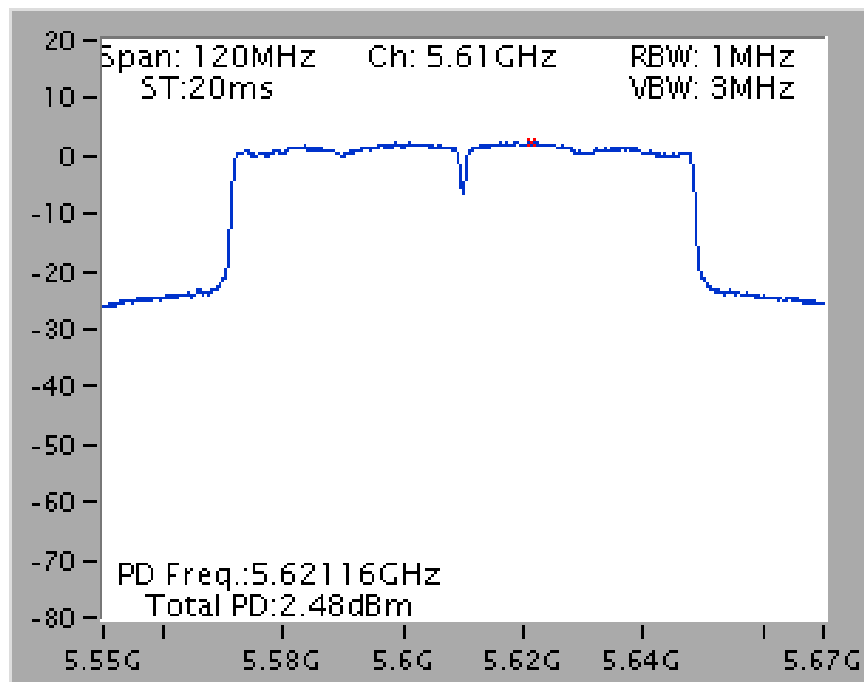
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



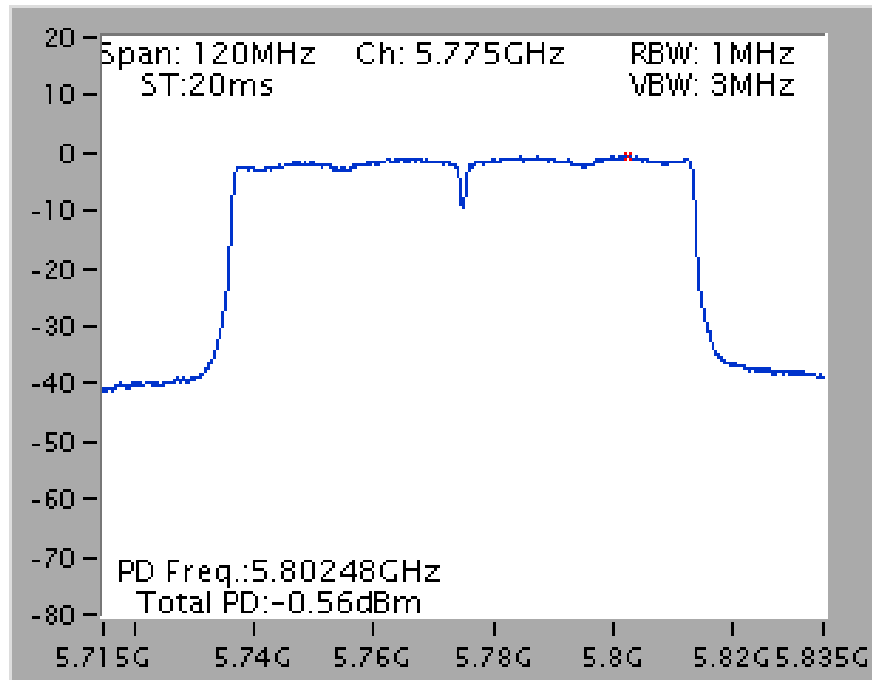
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5610 MHz



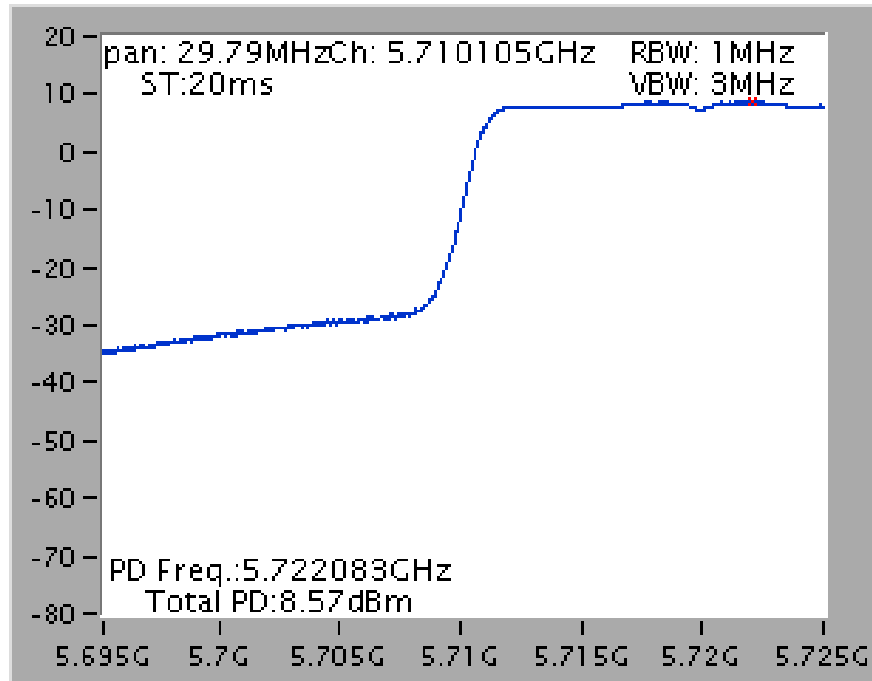
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz



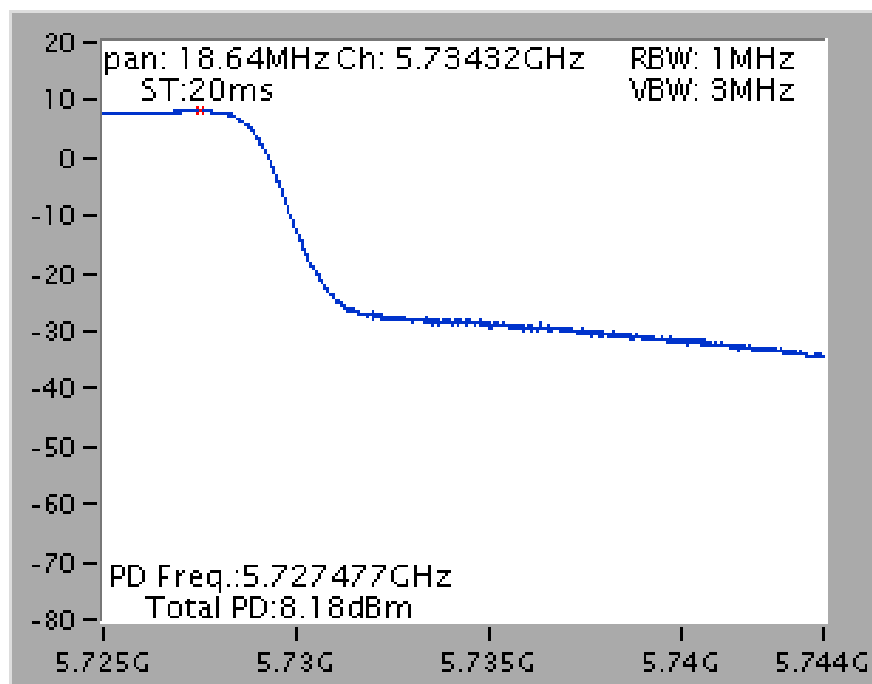


### Straddle Channel

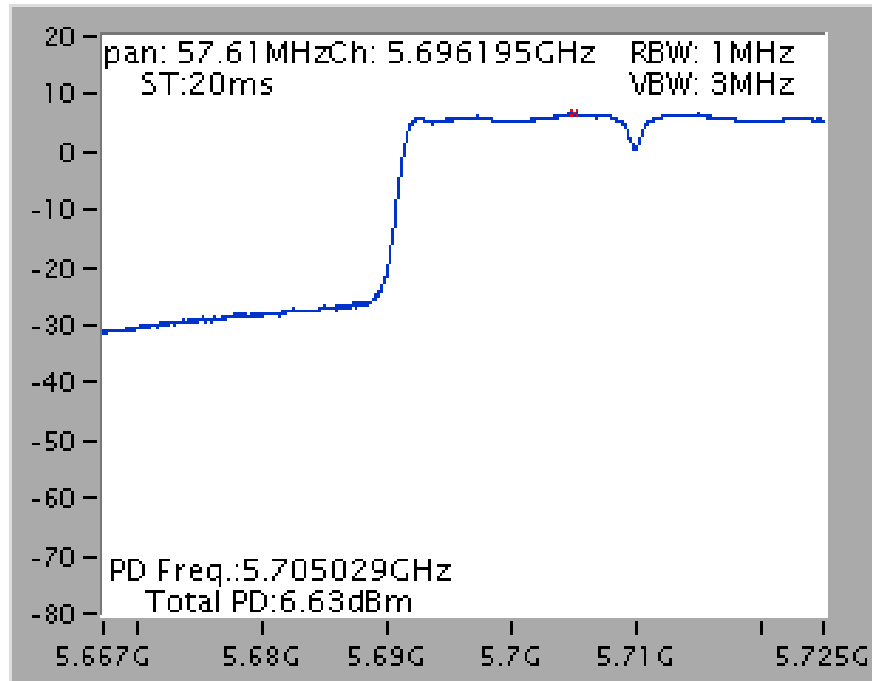
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 2C)



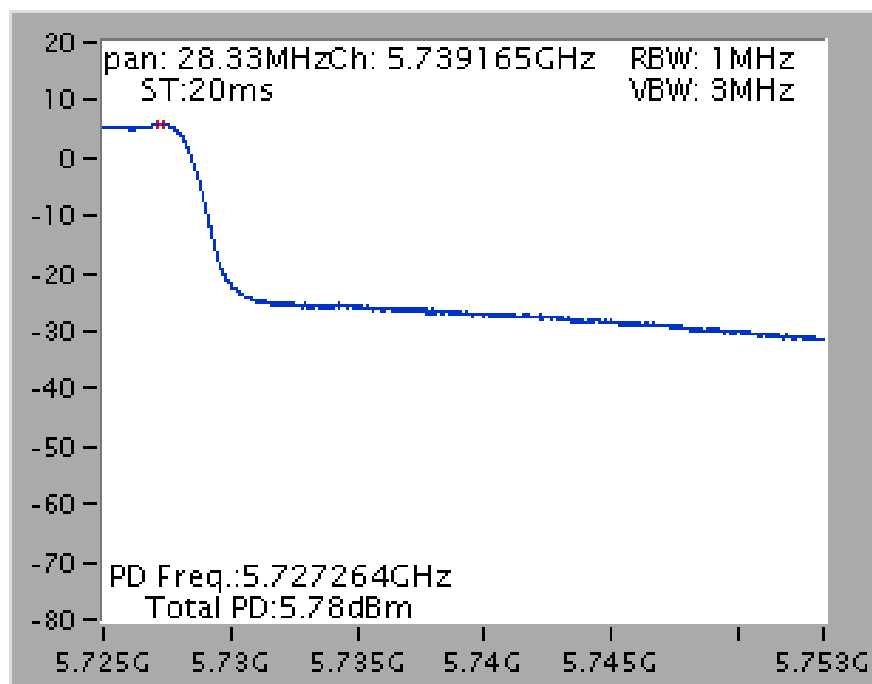
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 3)



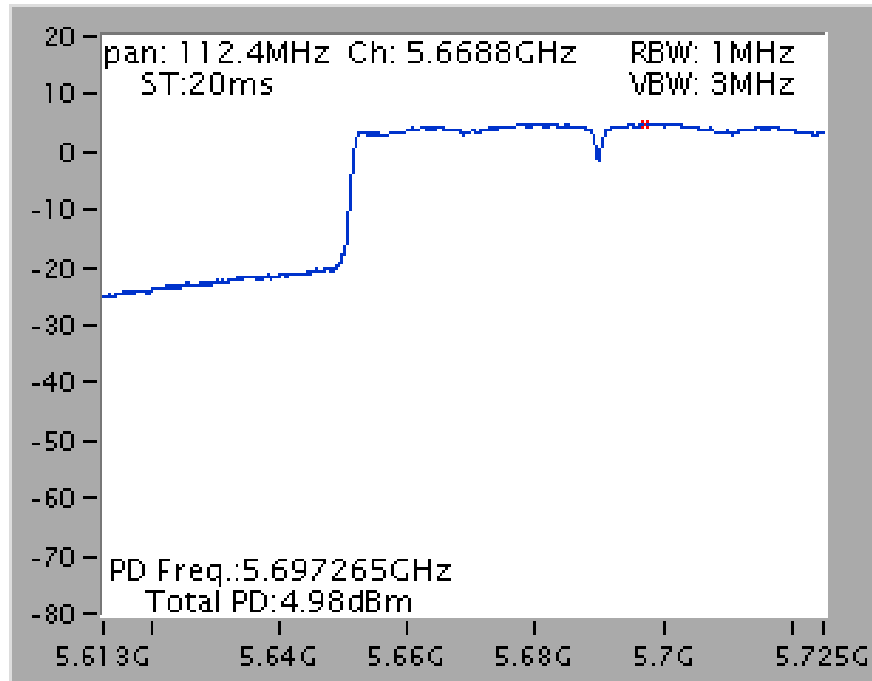
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 2C)



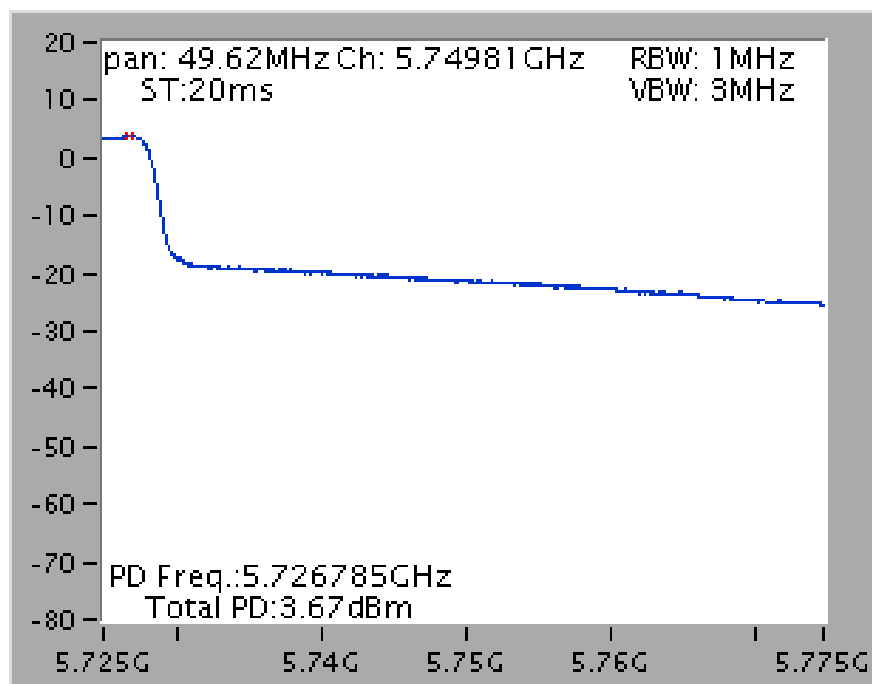
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 2C)

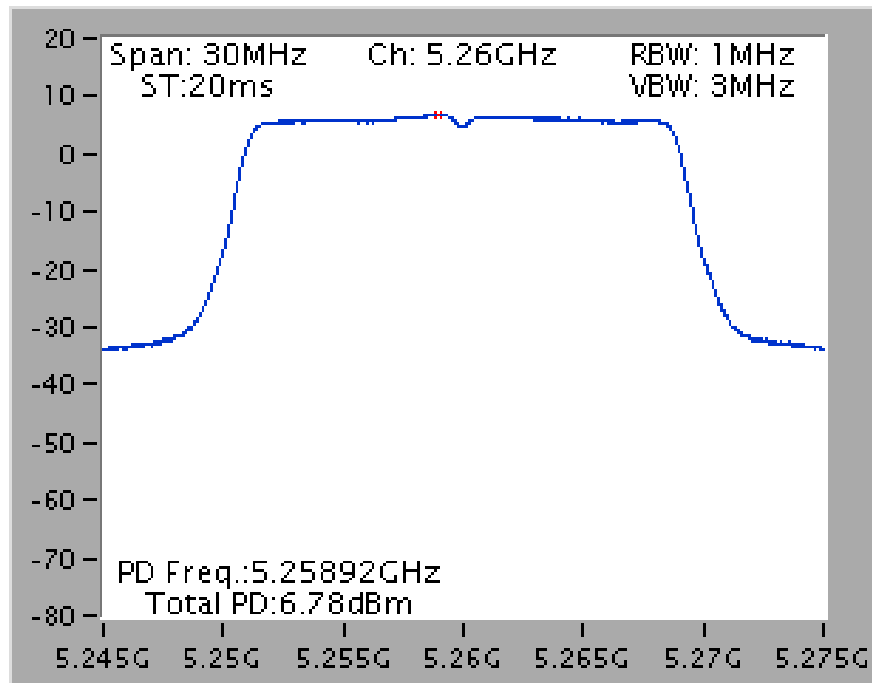


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 3)

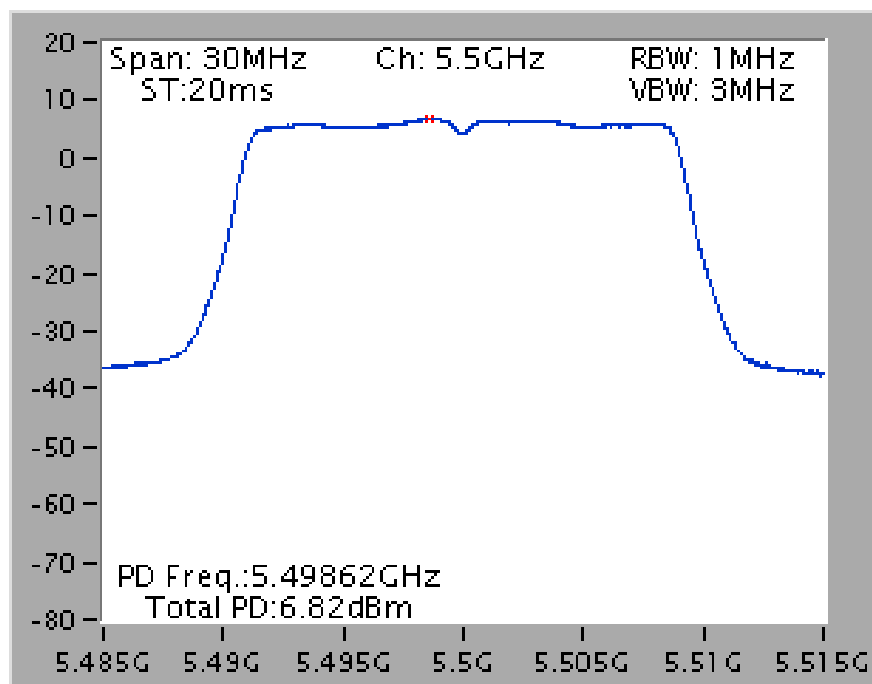


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

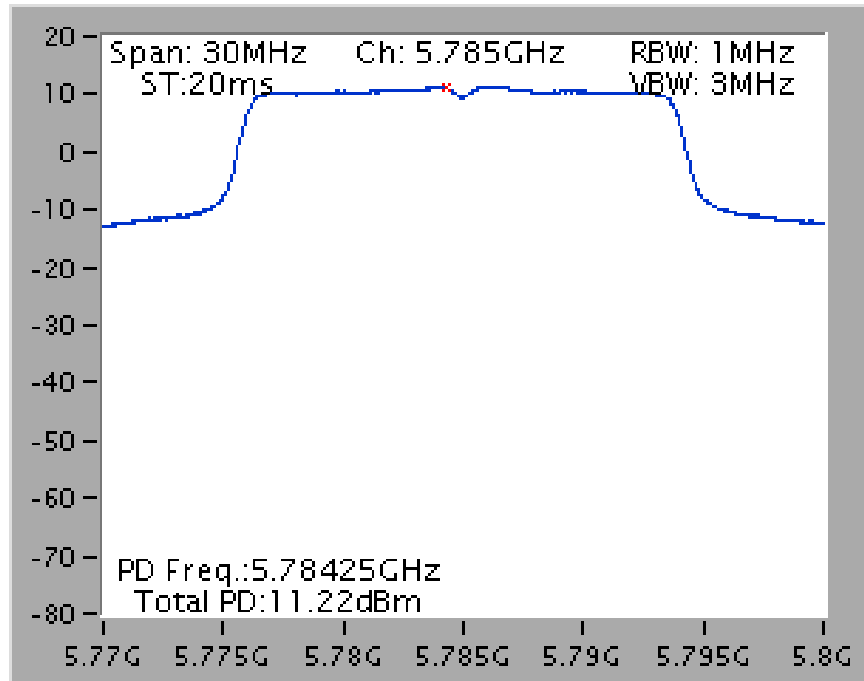
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5260 MHz



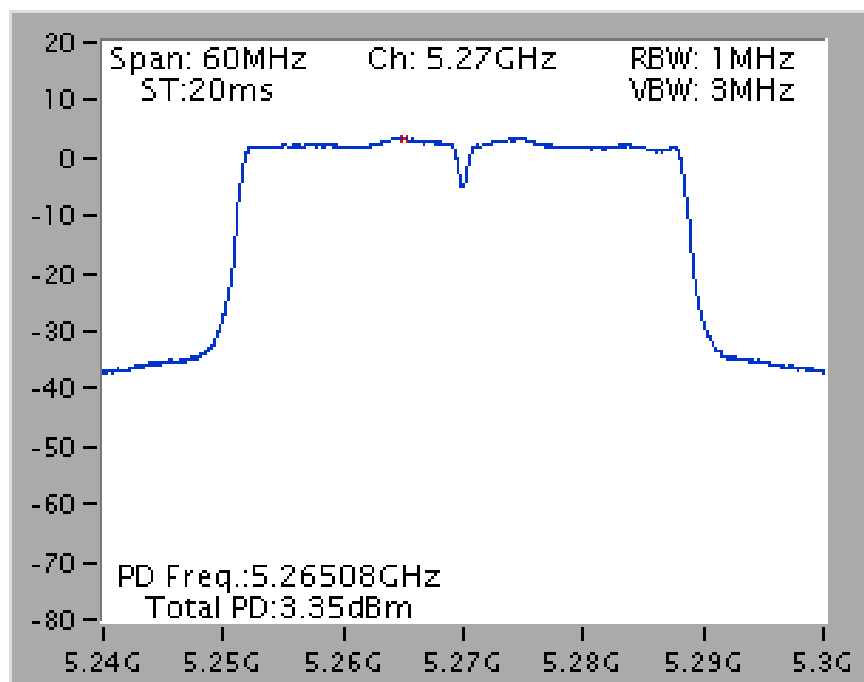
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5500 MHz



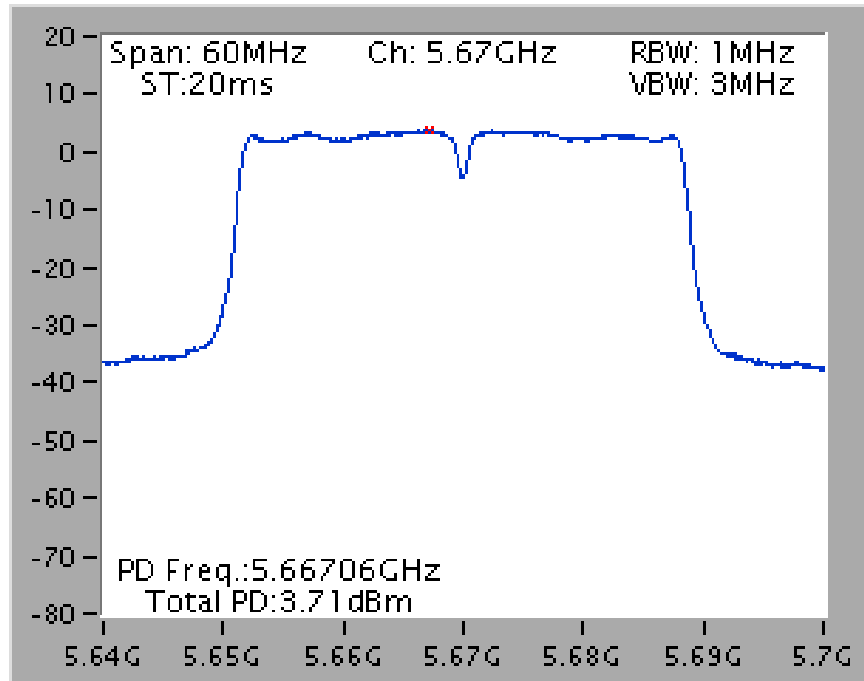
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5785 MHz**



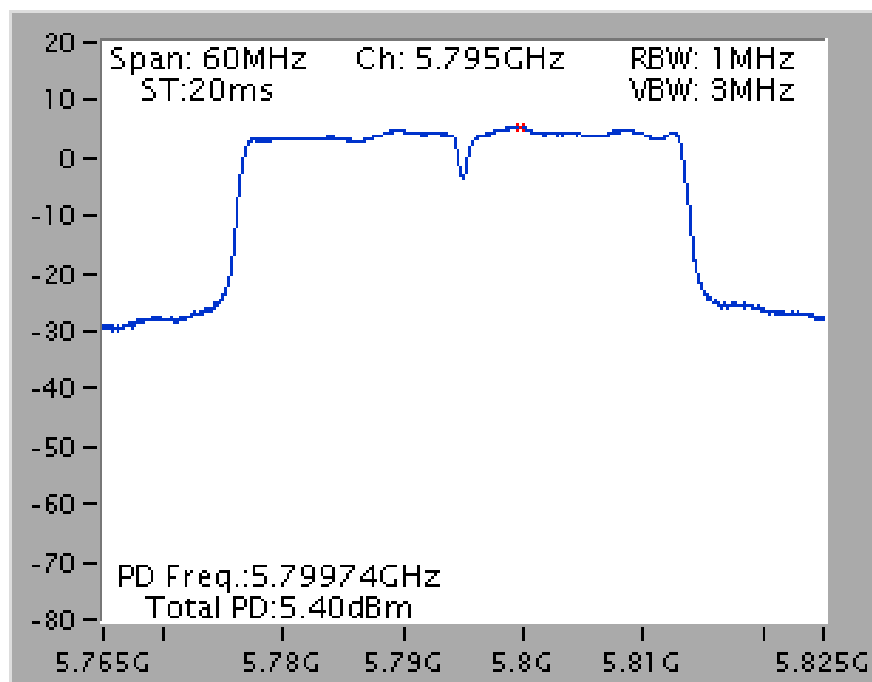
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5270 MHz**



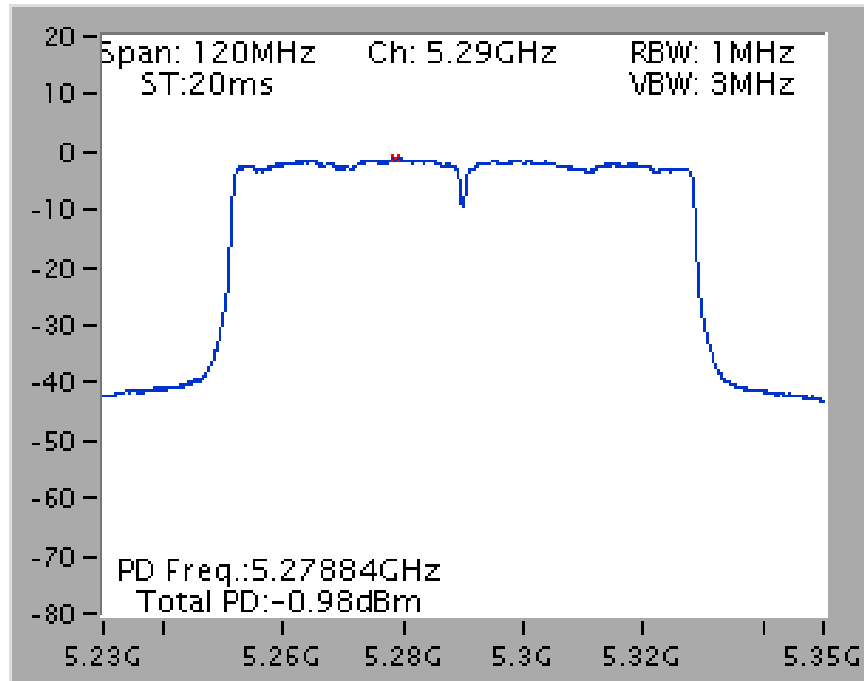
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5670 MHz



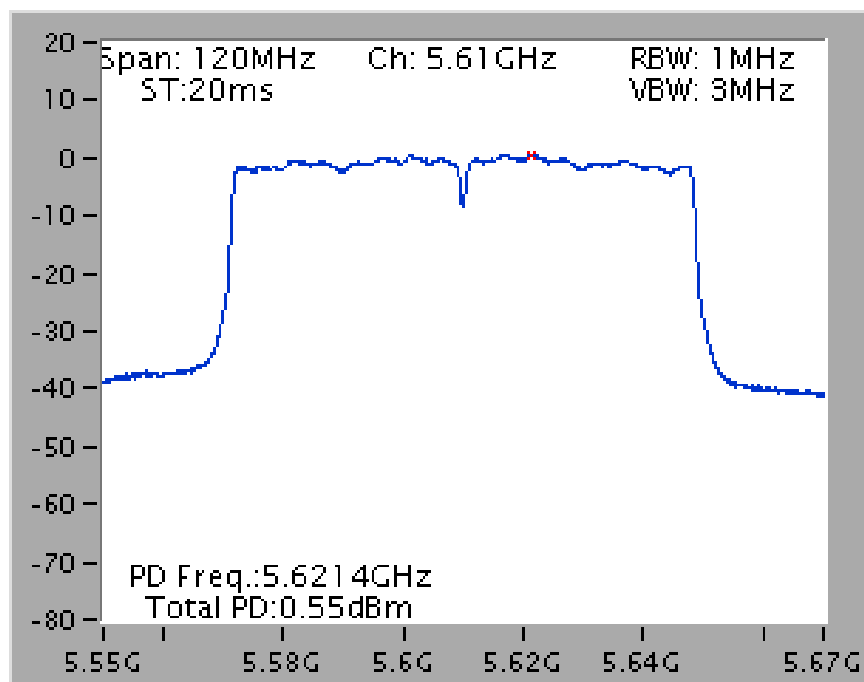
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5795 MHz



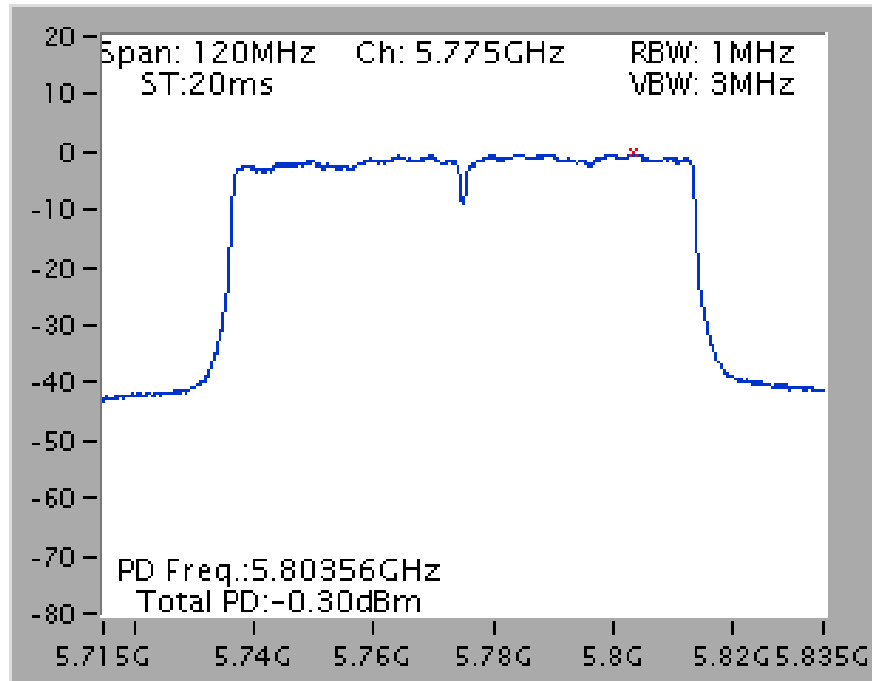
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5610 MHz



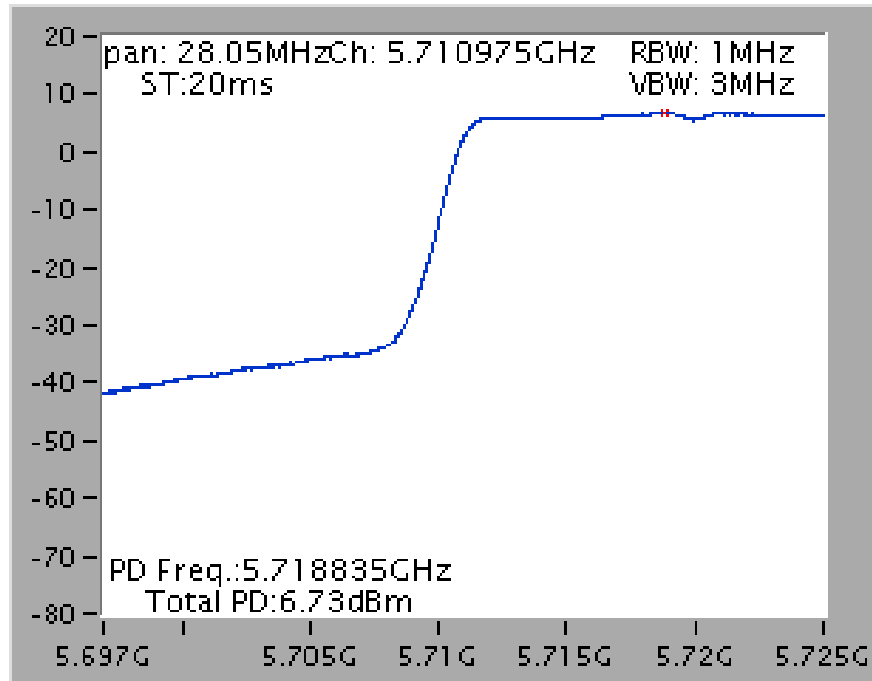
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5775 MHz



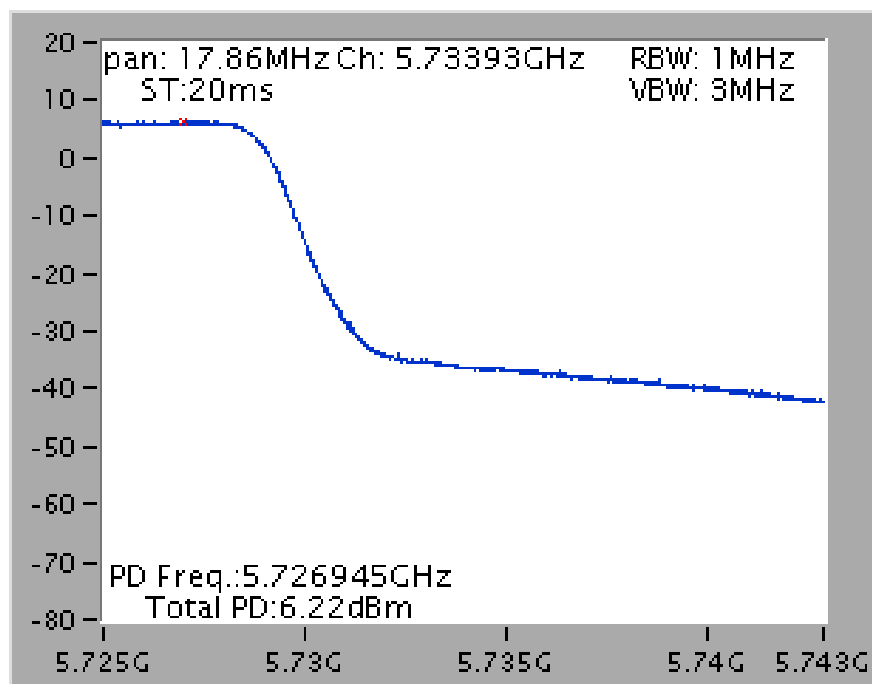


### Straddle Channel

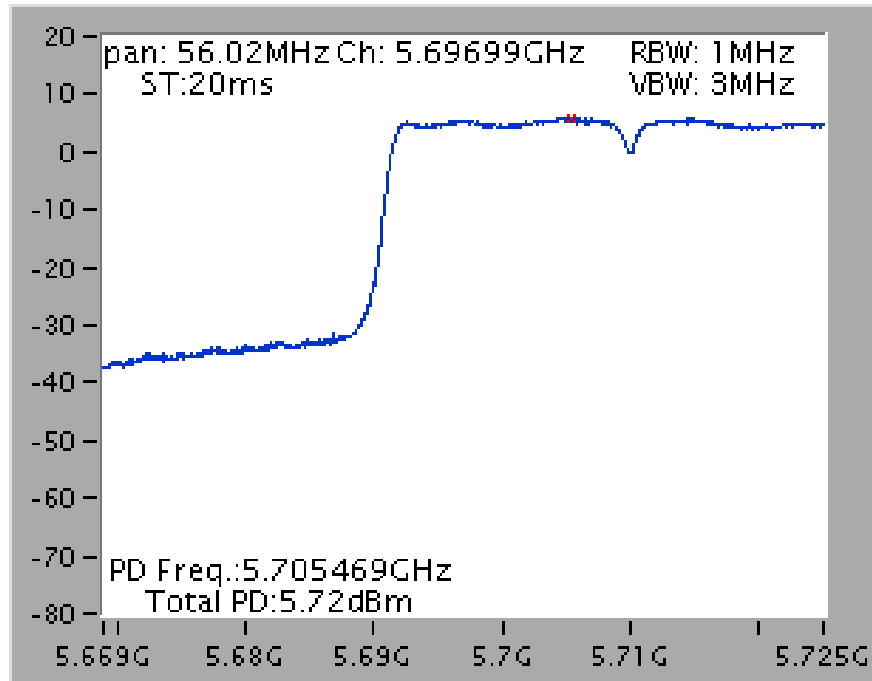
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 2C)



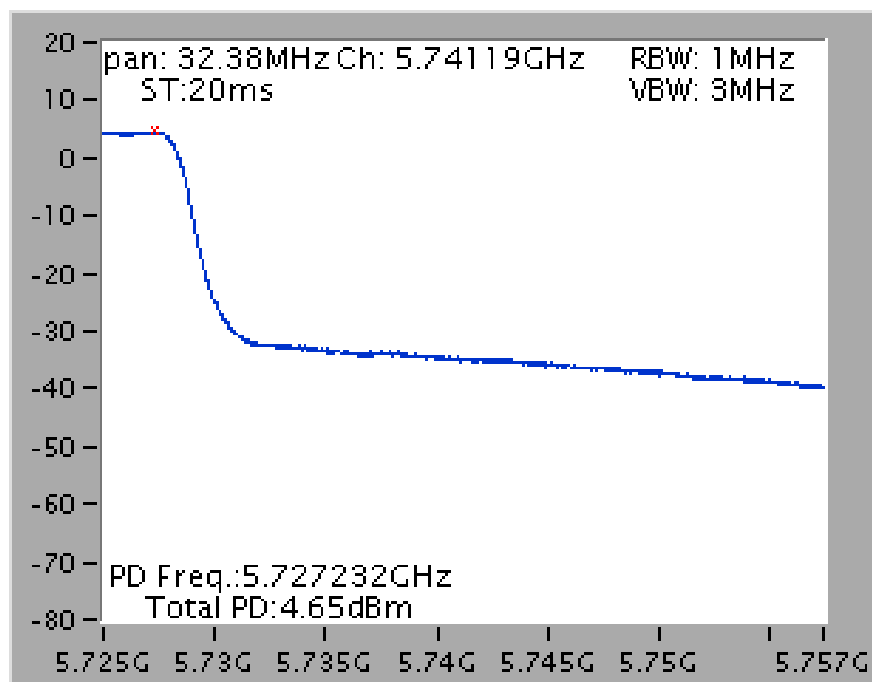
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 3)



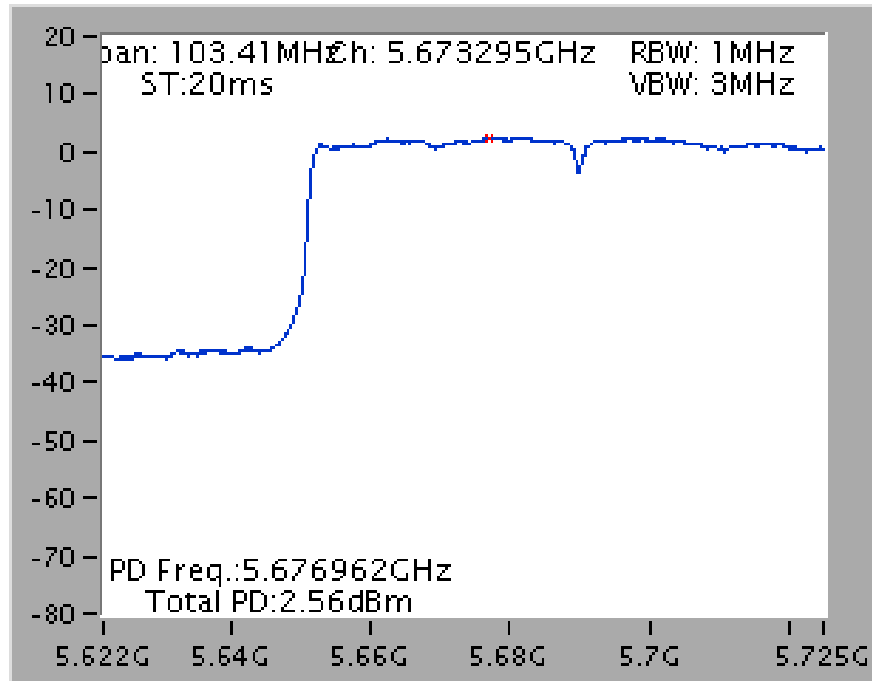
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5710 MHz (UNII 2C)



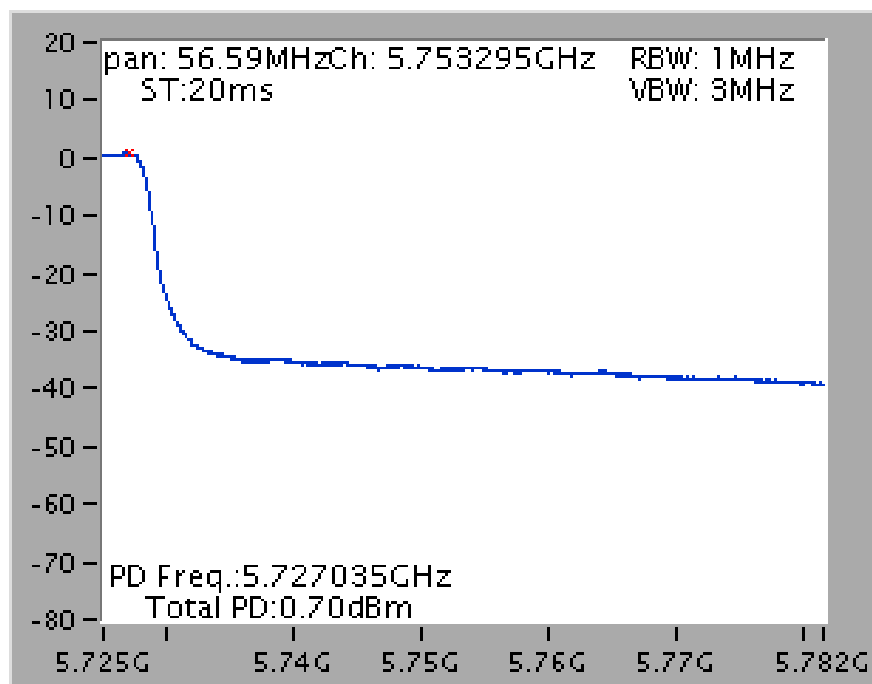
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 2C)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 3)

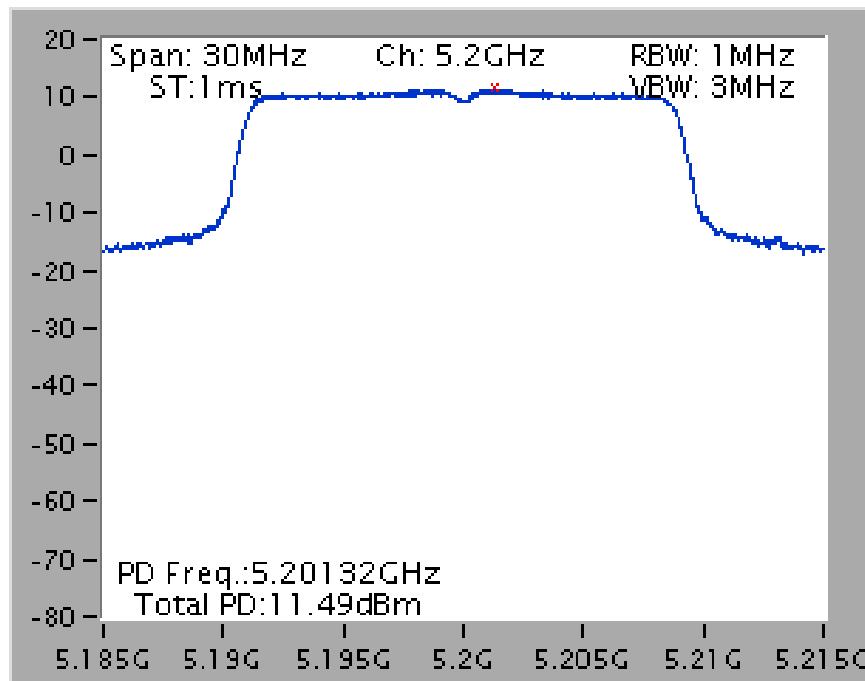


<For STBC Mode>

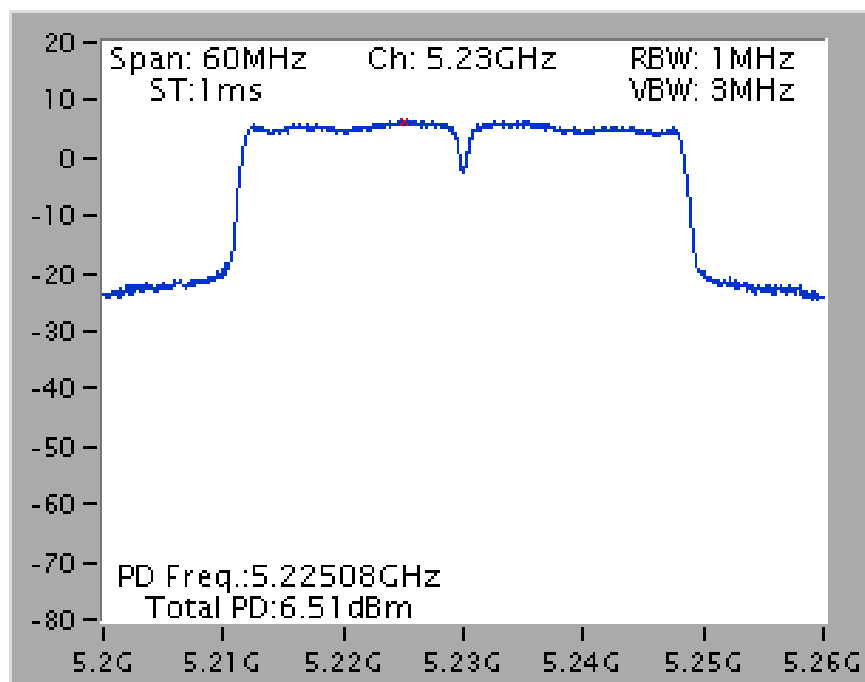
For indoor use

Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)

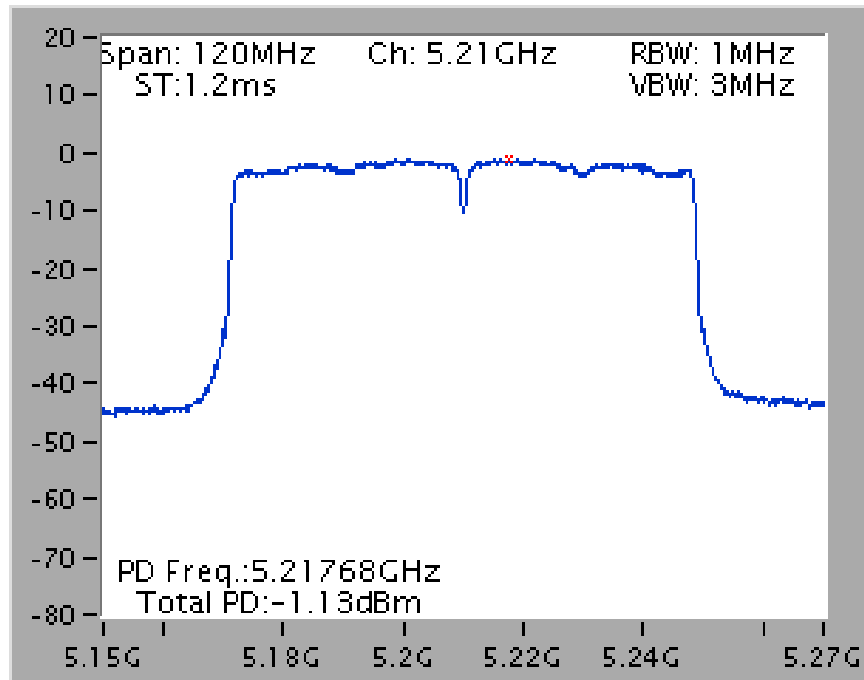
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz

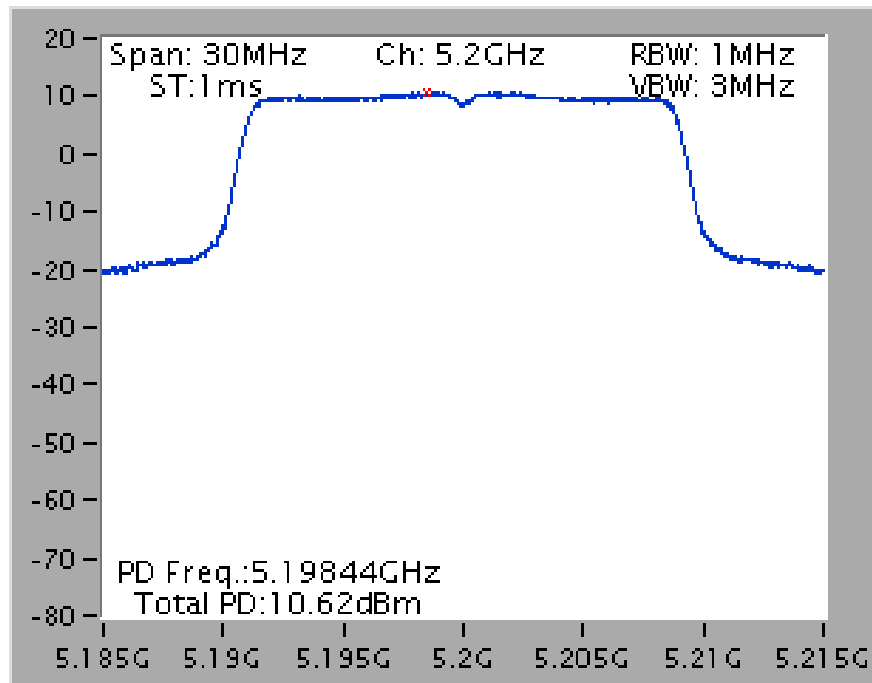


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

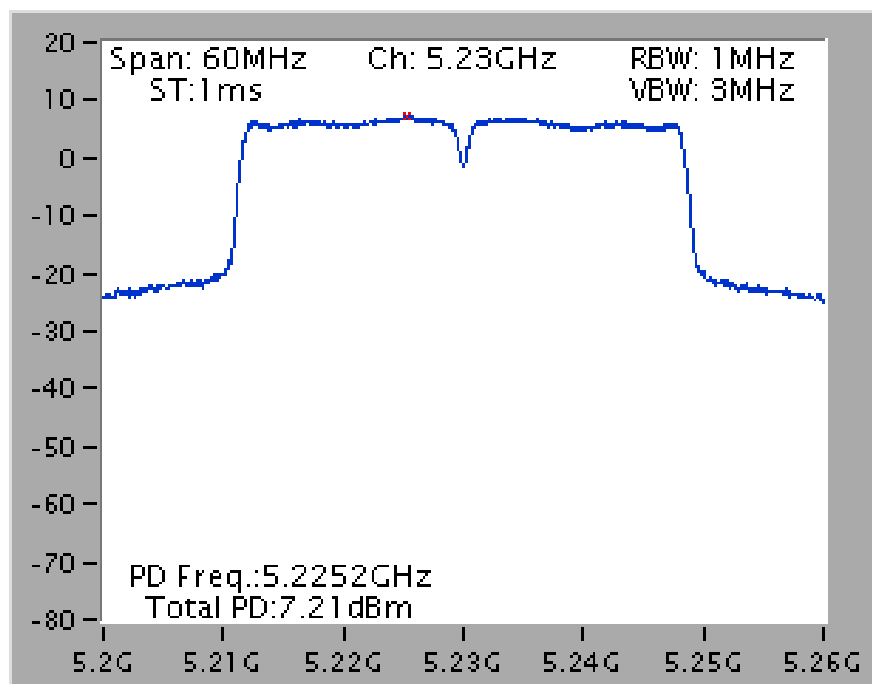


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)

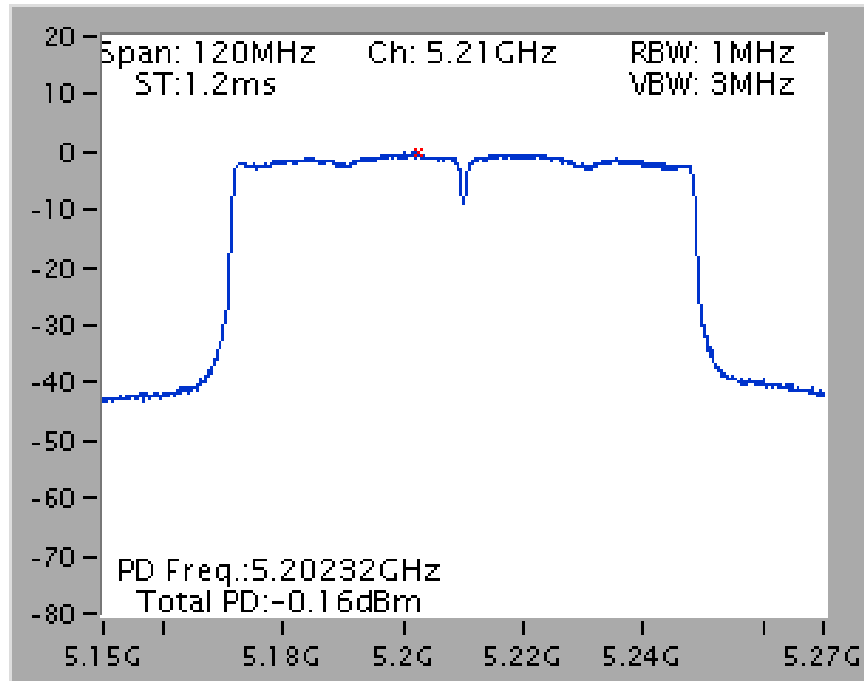
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz

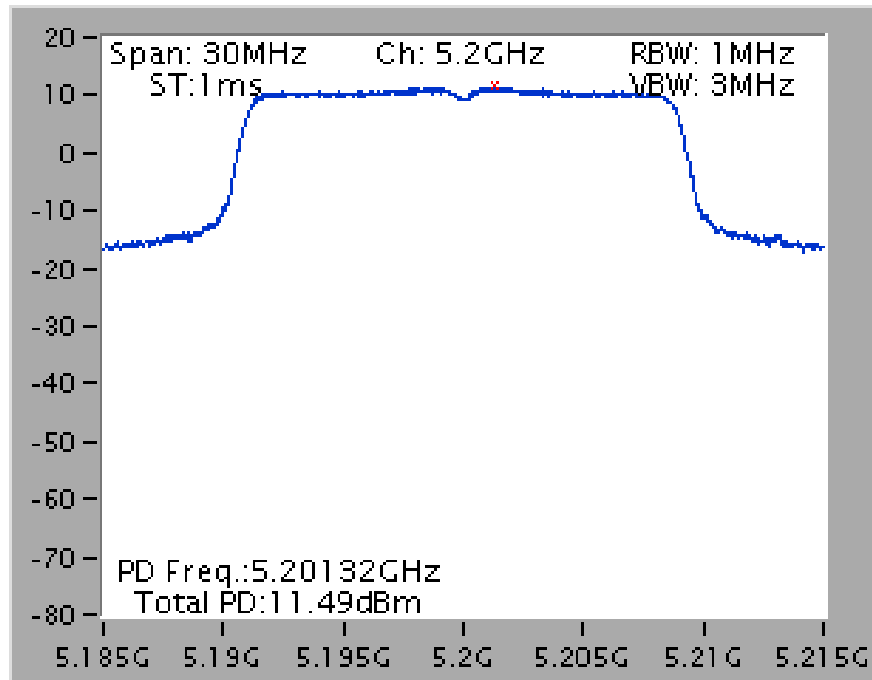


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz

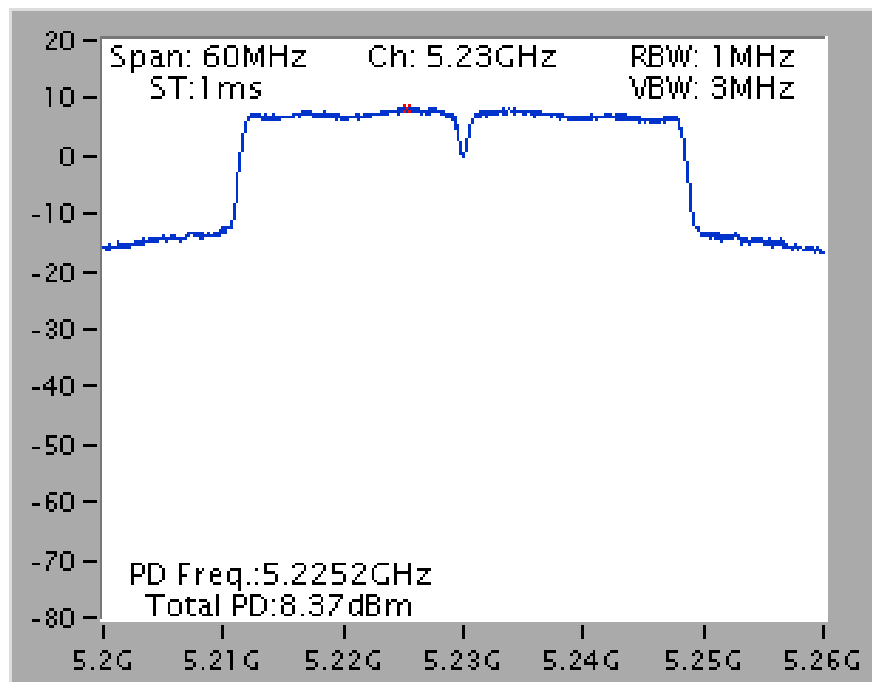


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5200 MHz

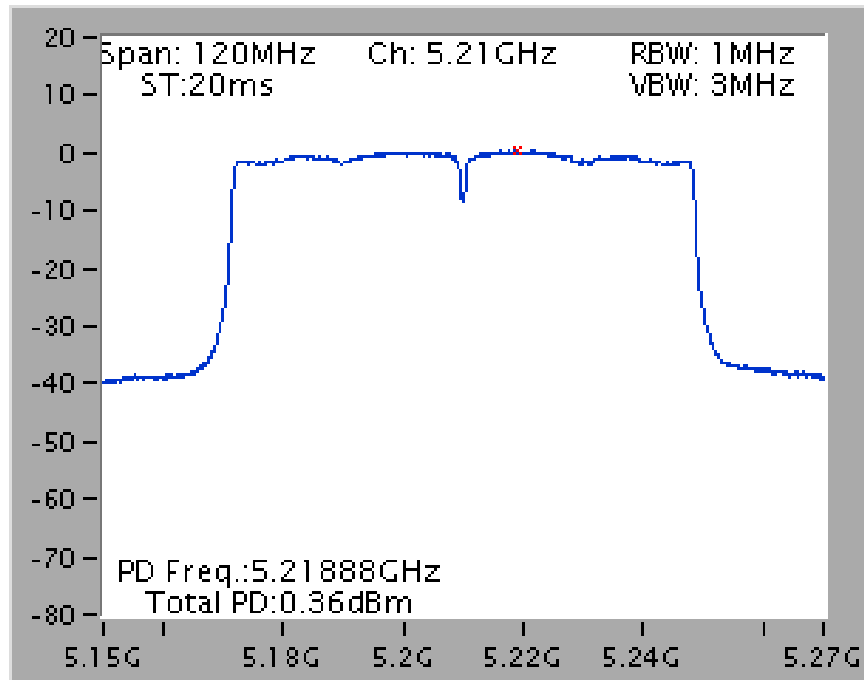


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



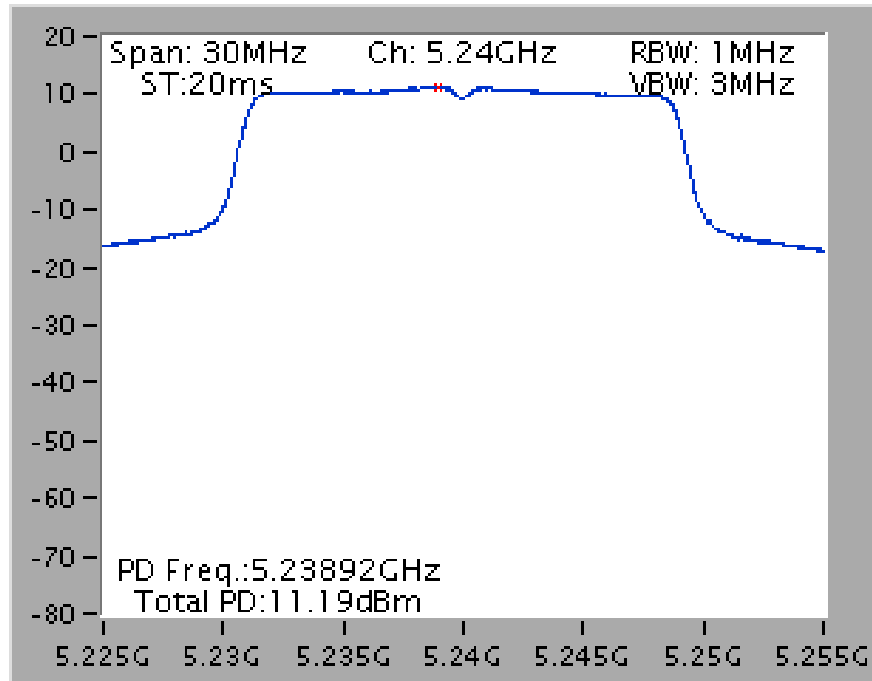


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

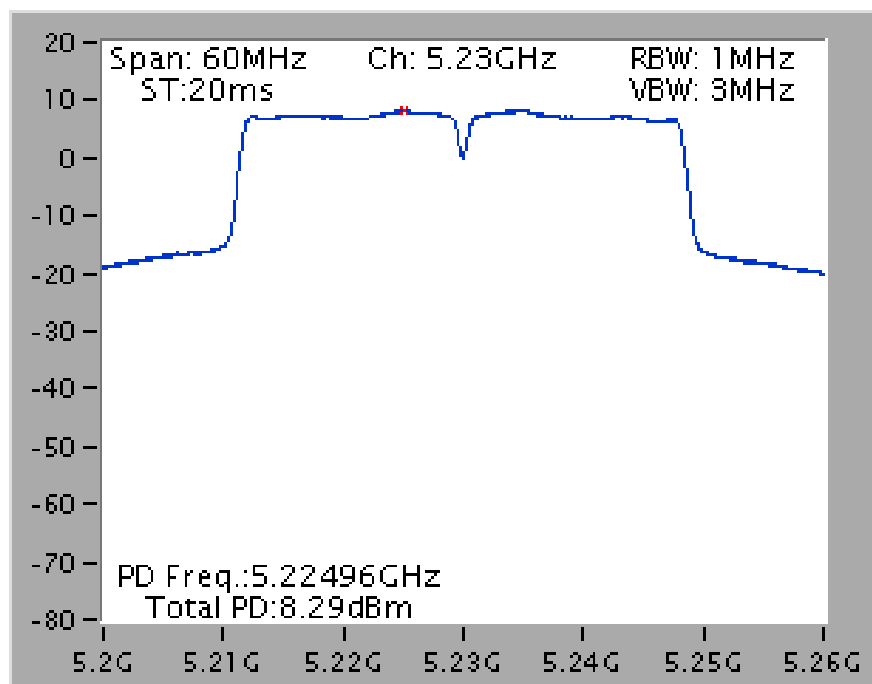


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

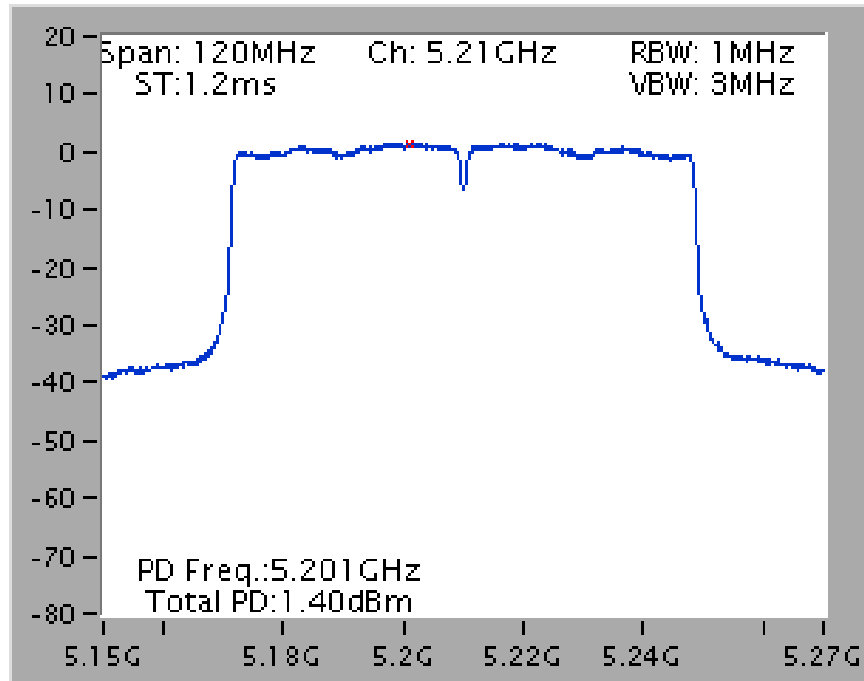
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5240 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz



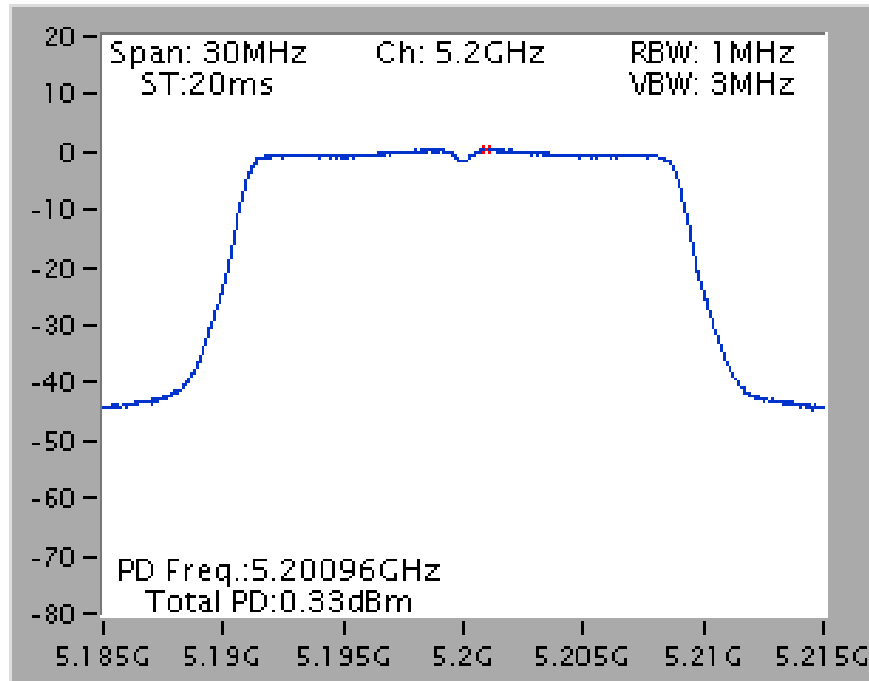
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz



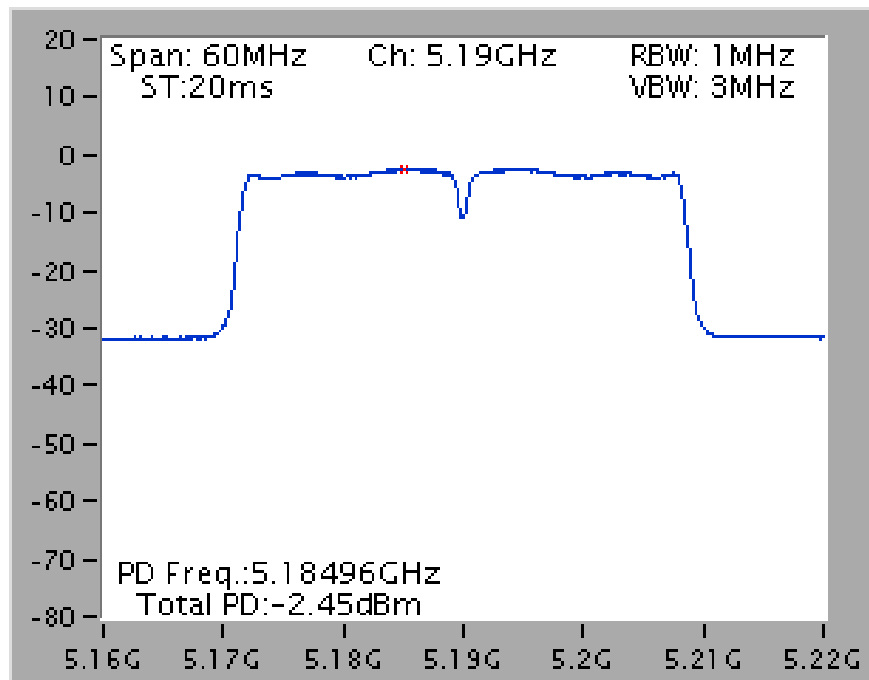
For outdoor use

Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)

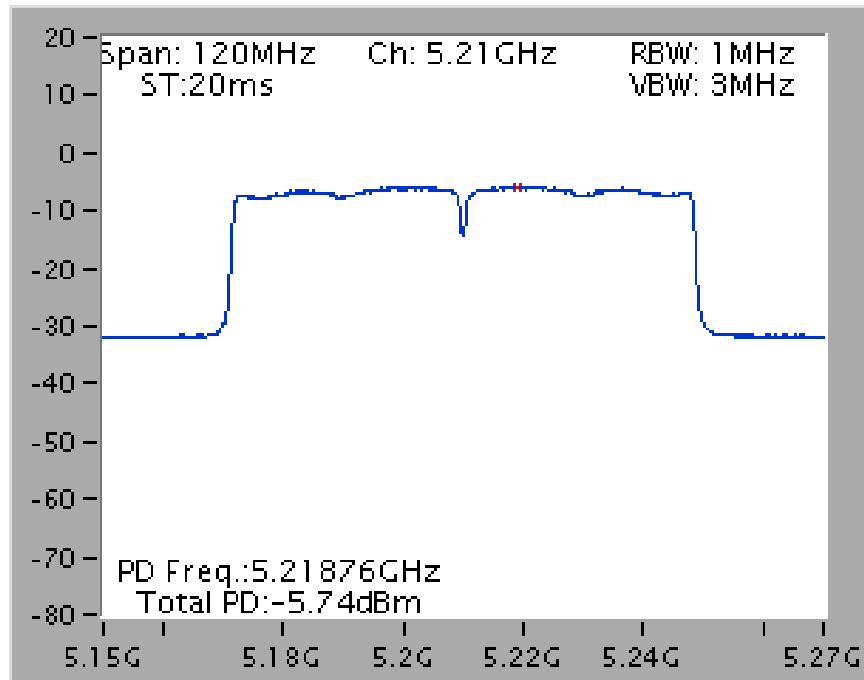
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5190 MHz

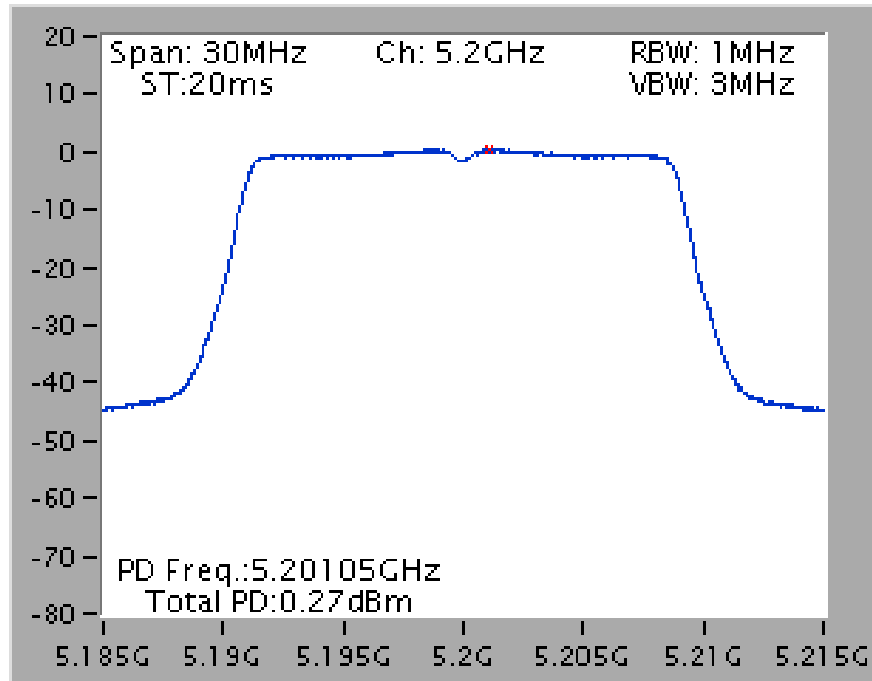


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

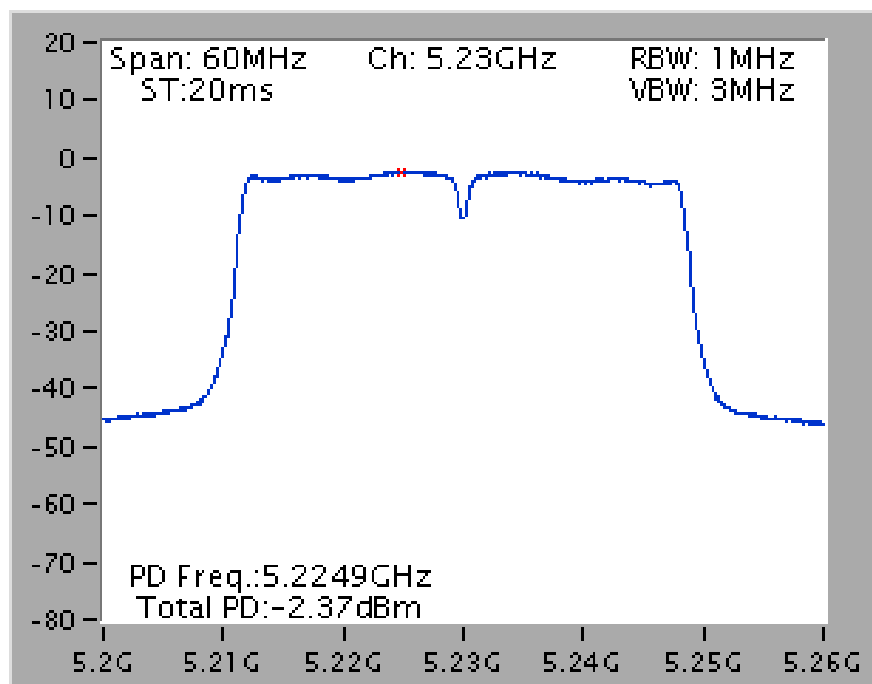


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)

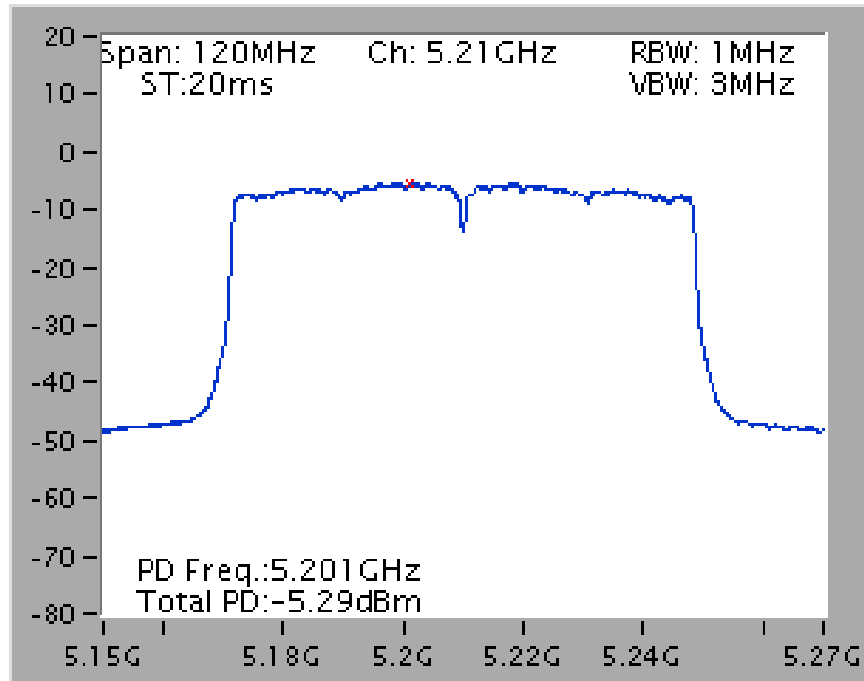
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz

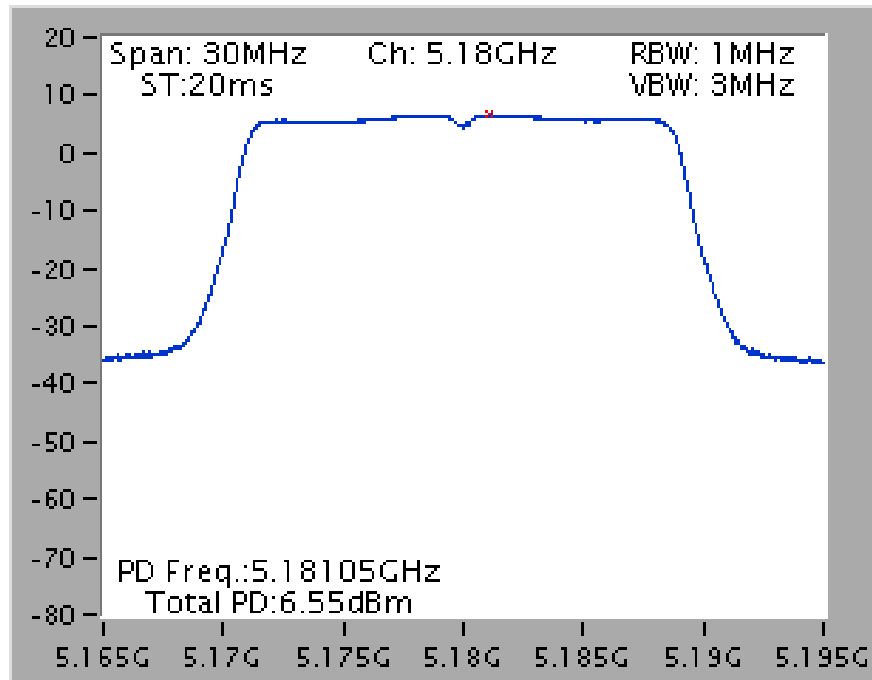


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz

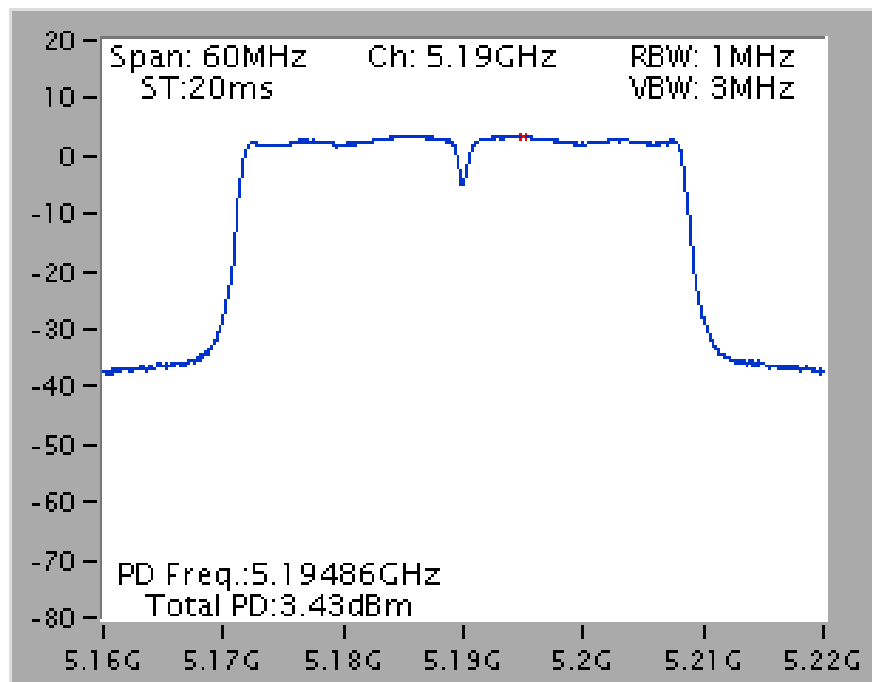


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz

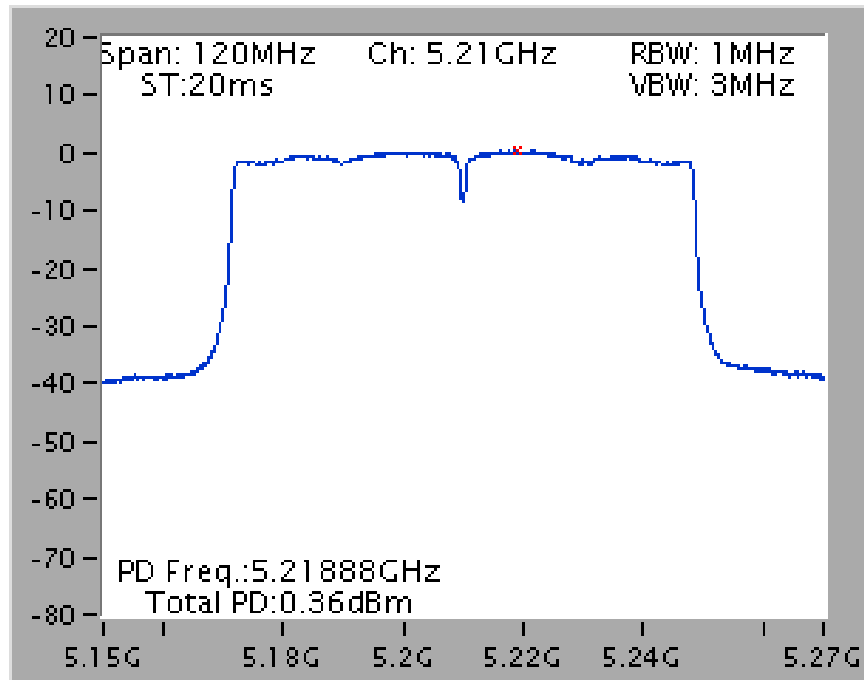


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5190 MHz



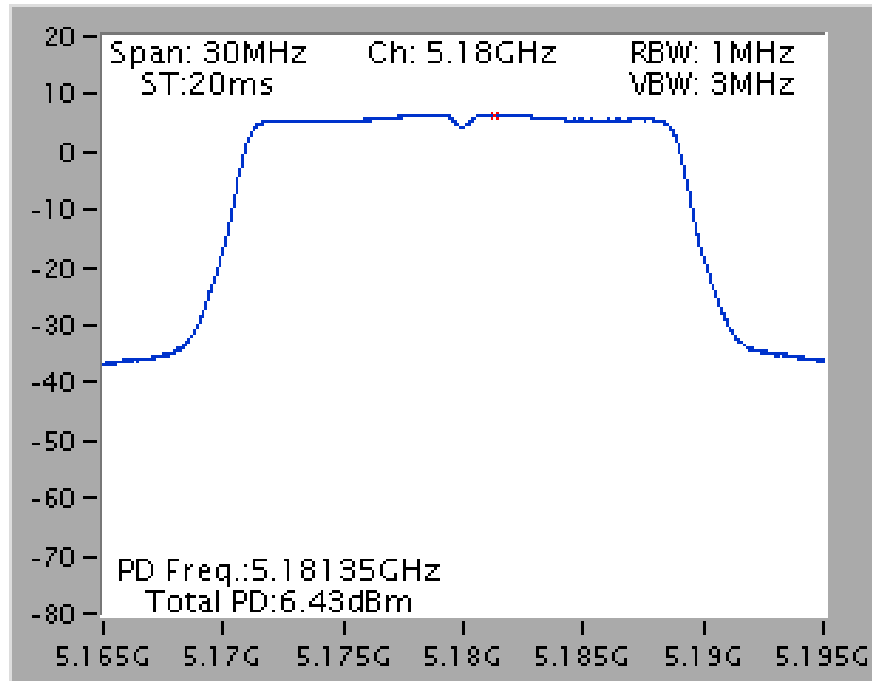


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

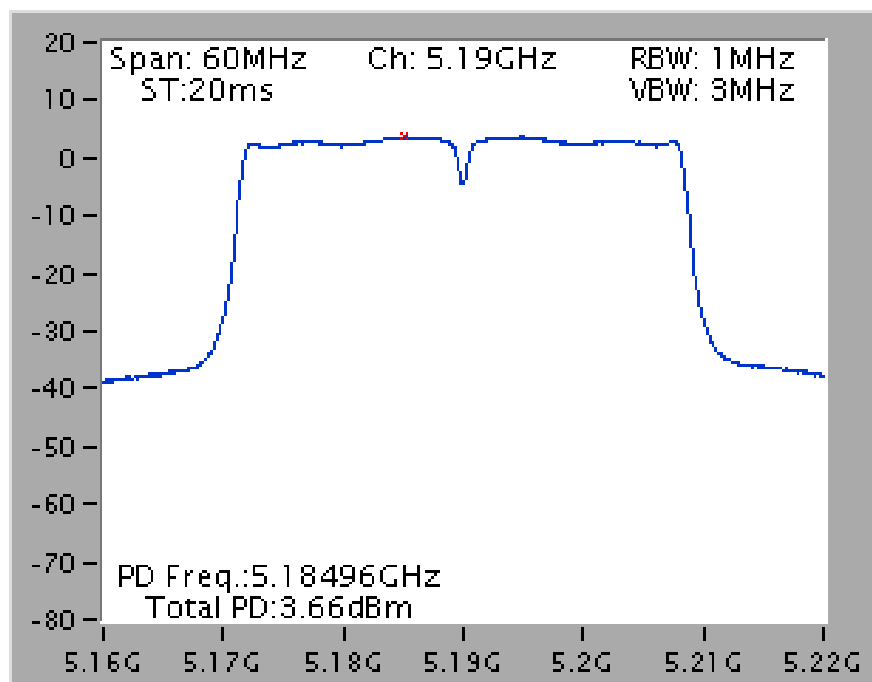


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

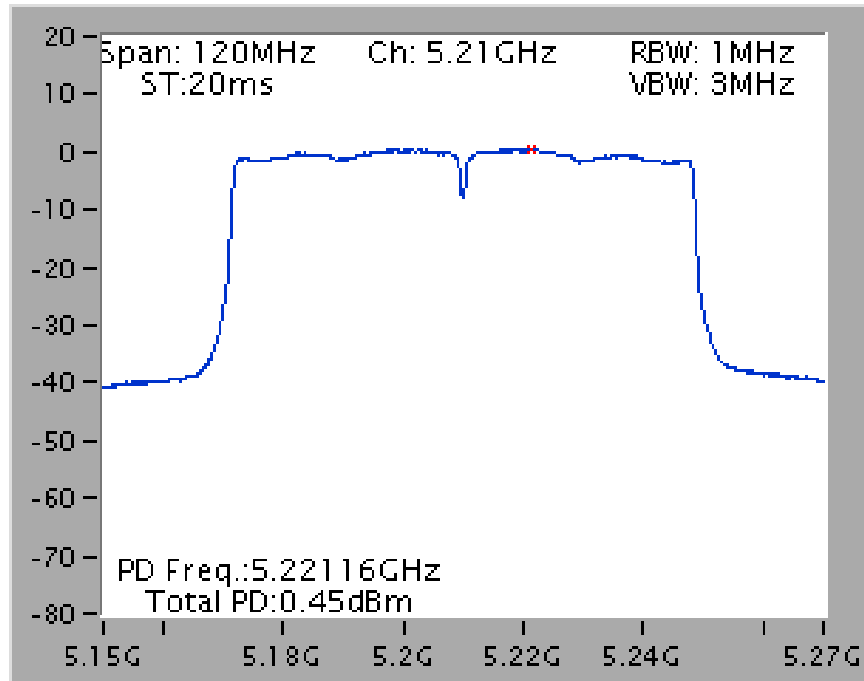
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5190 MHz

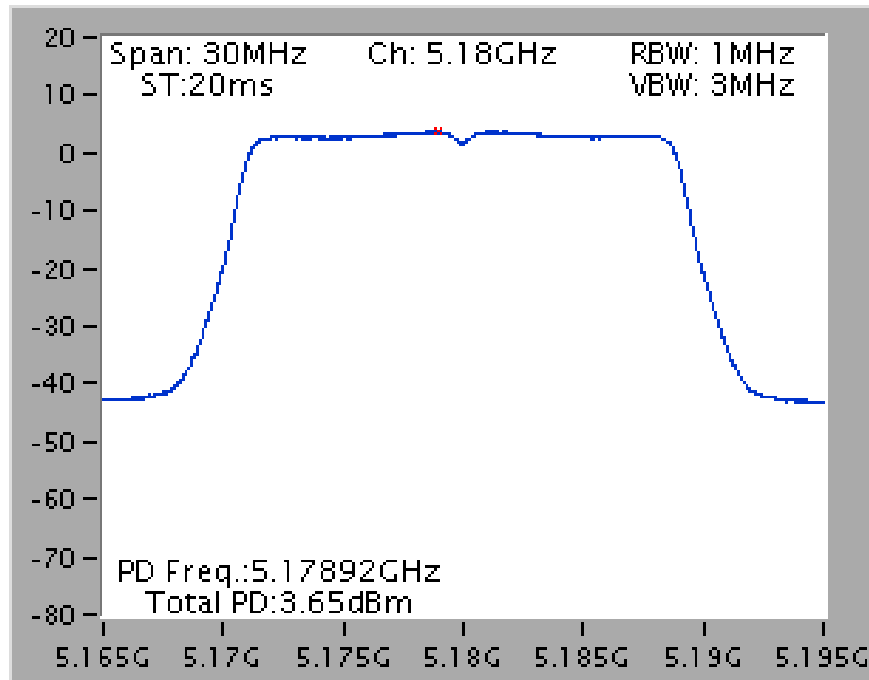


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz

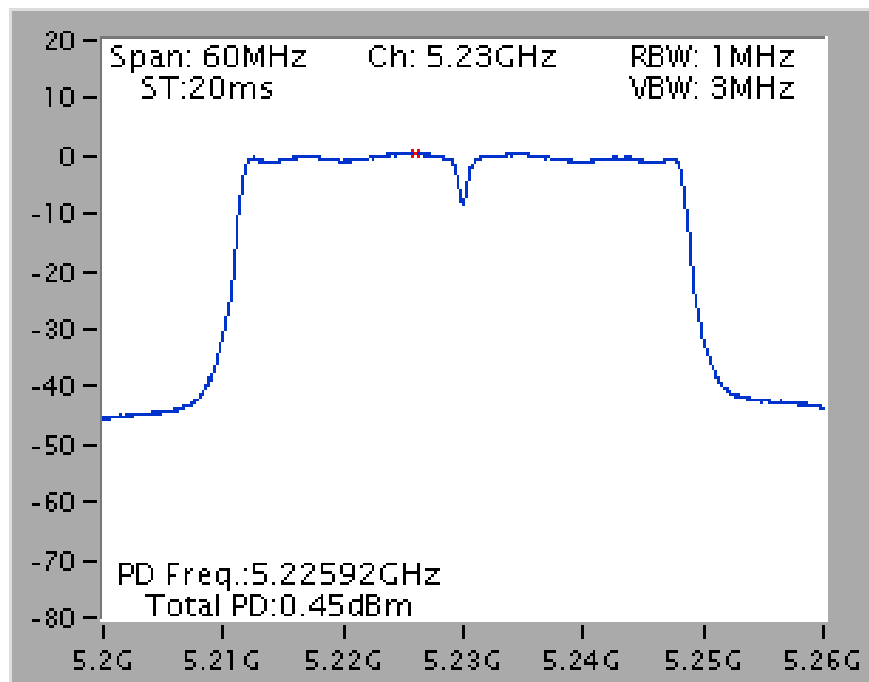


Mode 3 (Ant. 4 Panel antenna / 5.1dBi / 2TX)

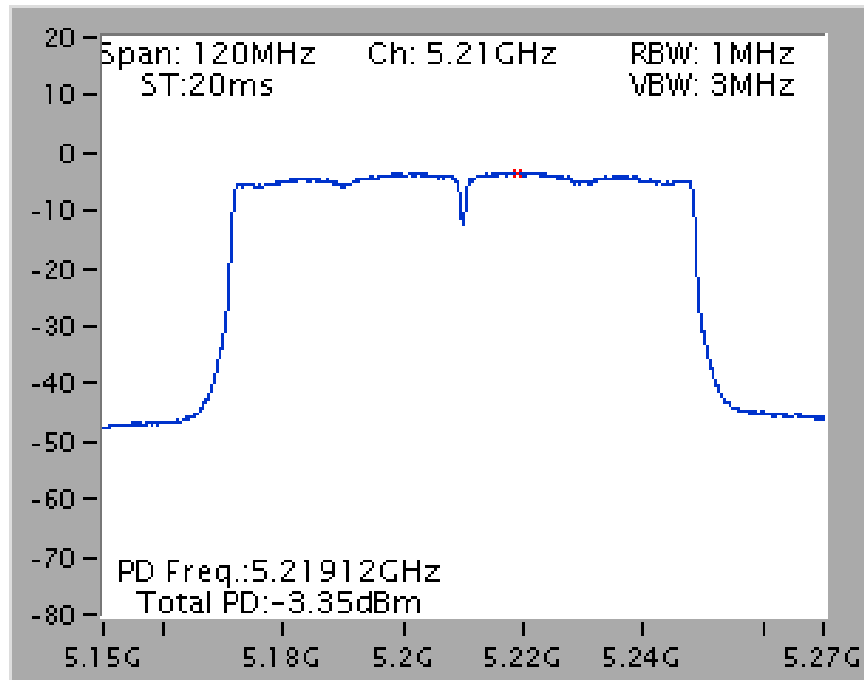
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz

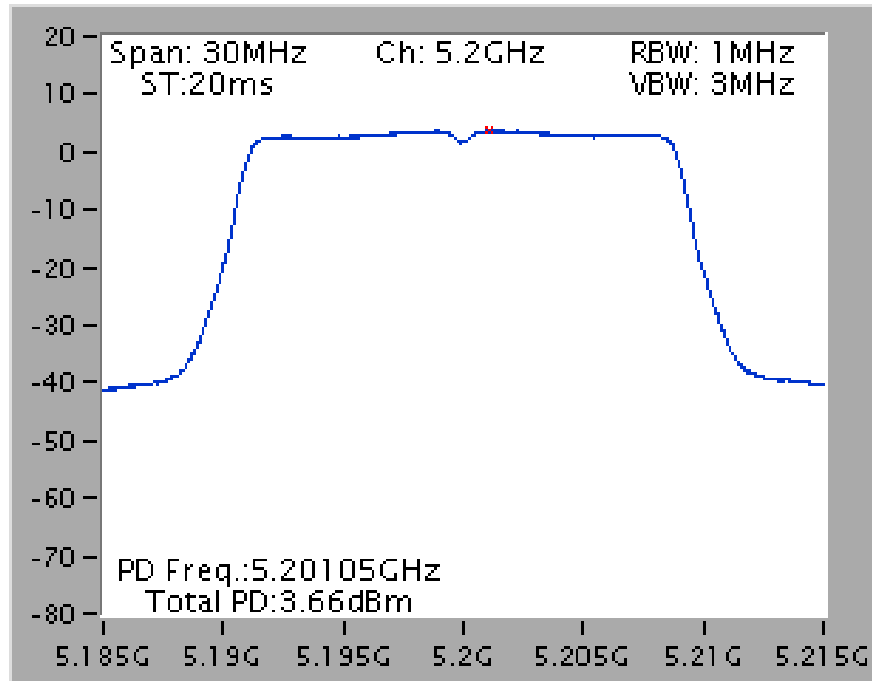


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz

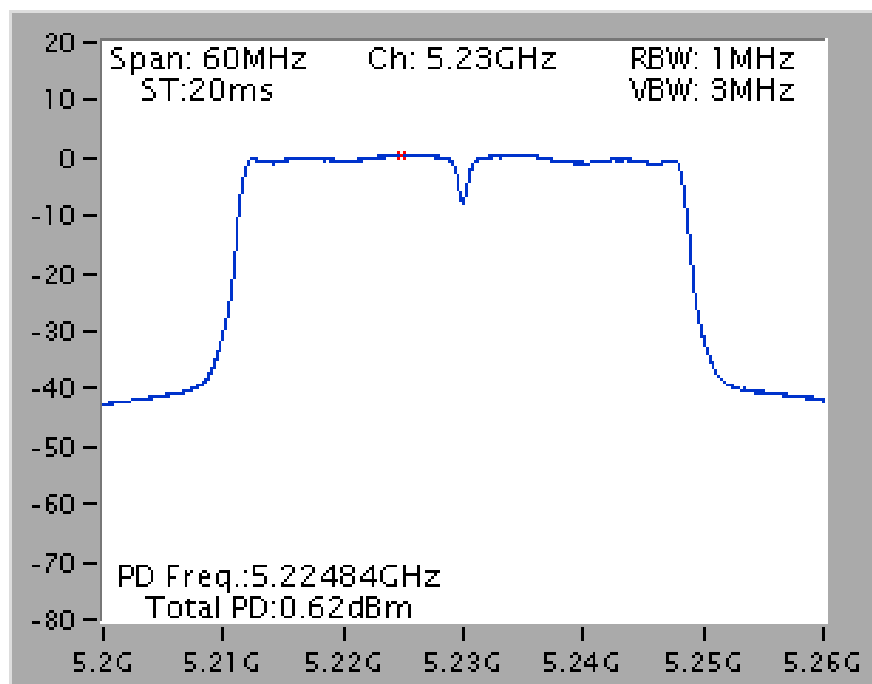


Mode 3 (Ant. 4 Panel antenna / 5.1dBi / 3TX)

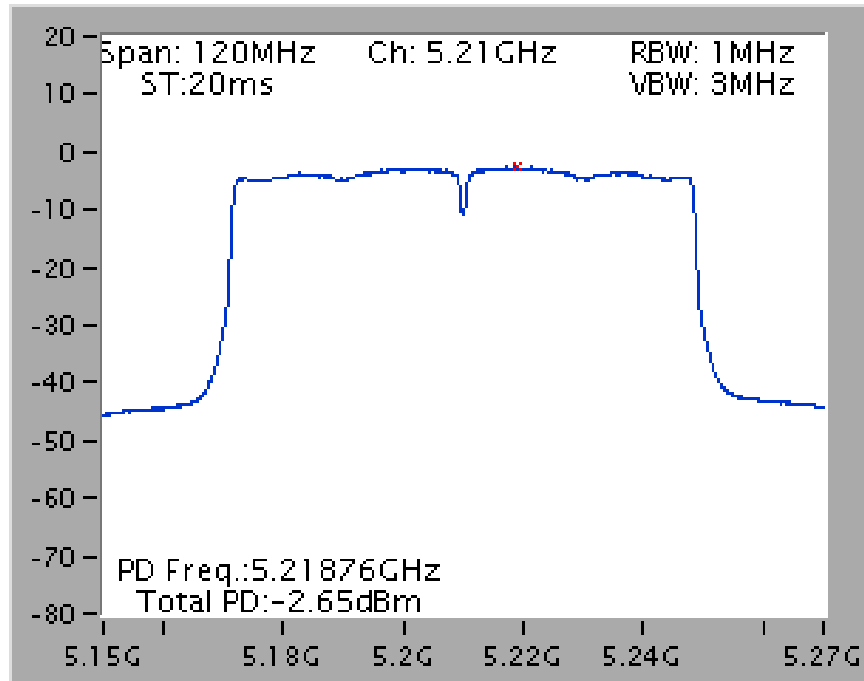
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5200 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5230 MHz



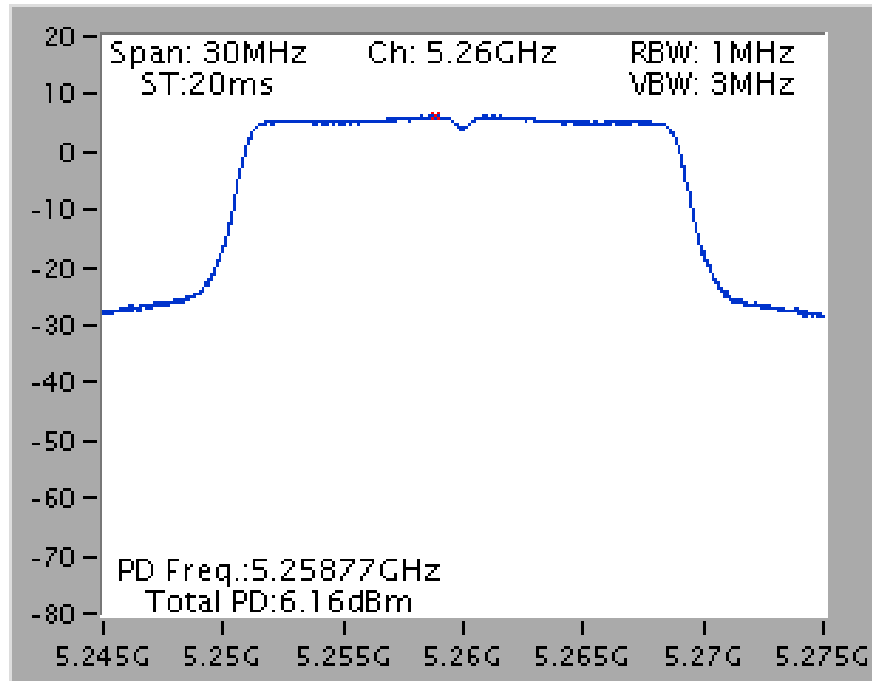
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5210 MHz



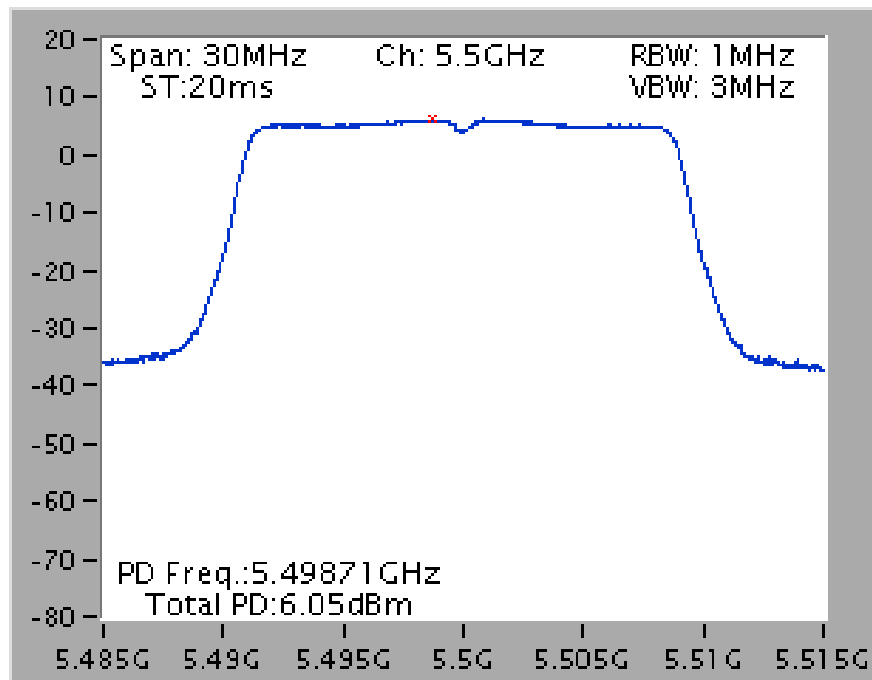
For indoor / outdoor use

Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 2TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5260 MHz

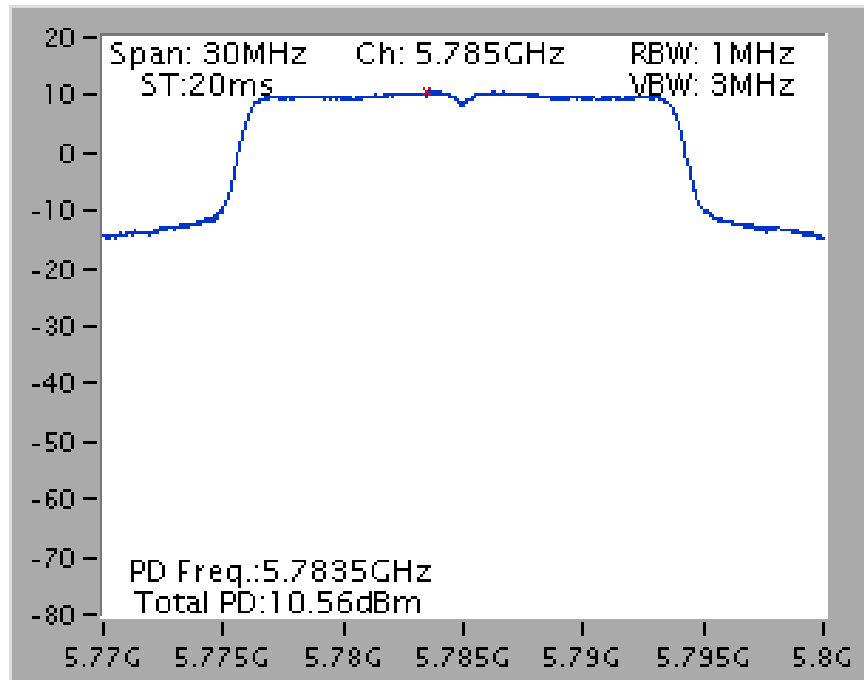


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5500 MHz

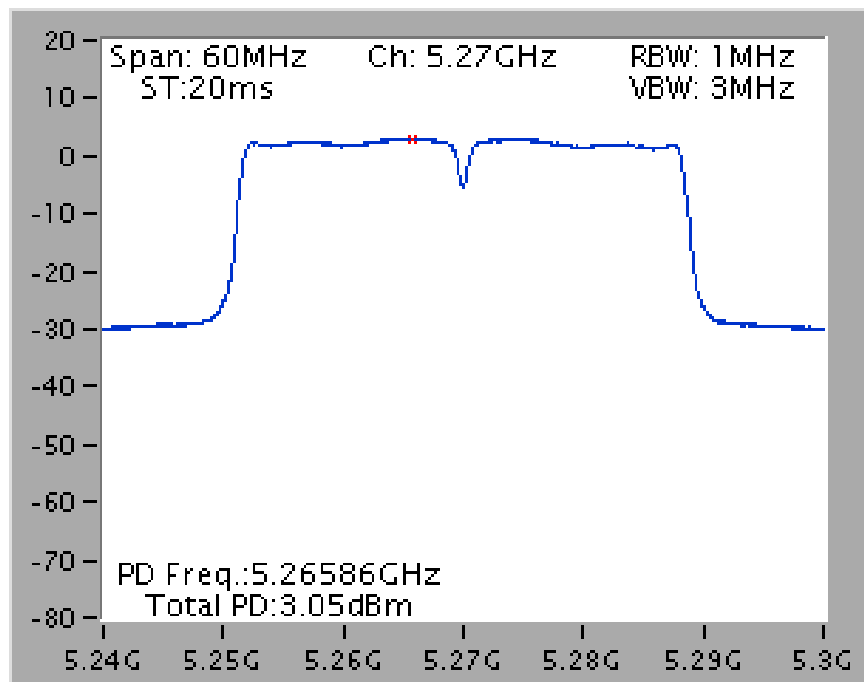




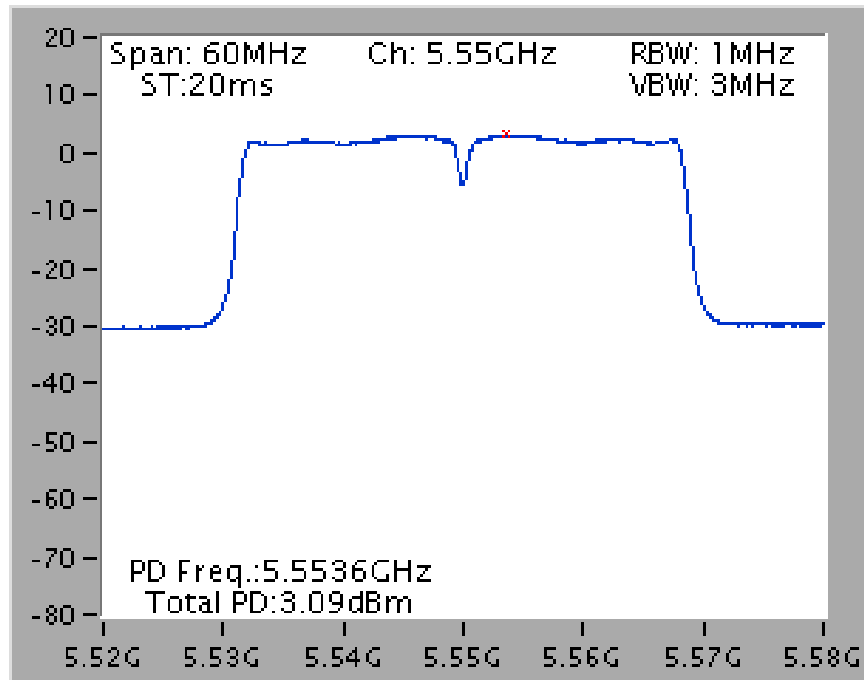
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



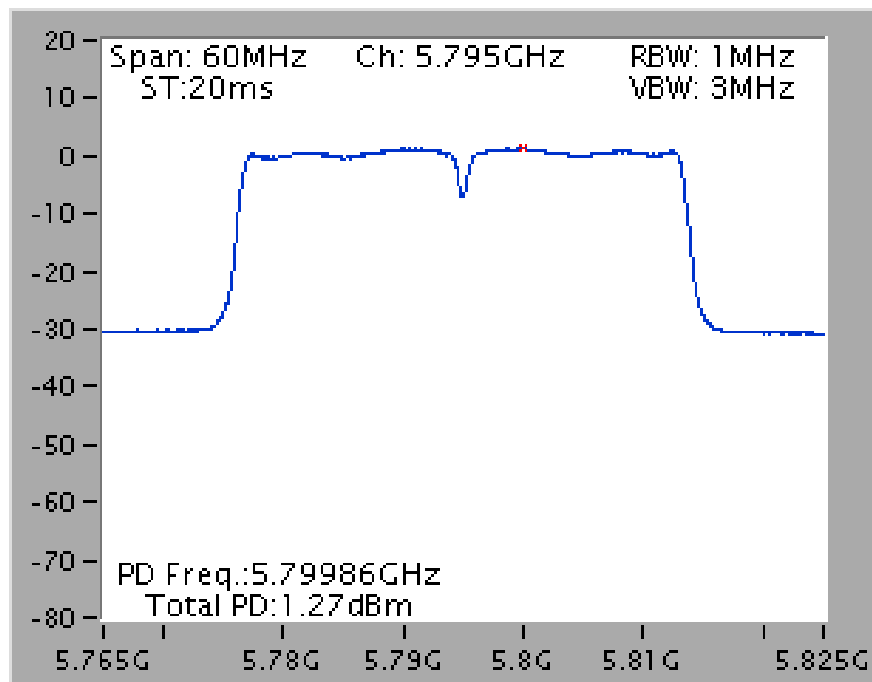
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5270 MHz



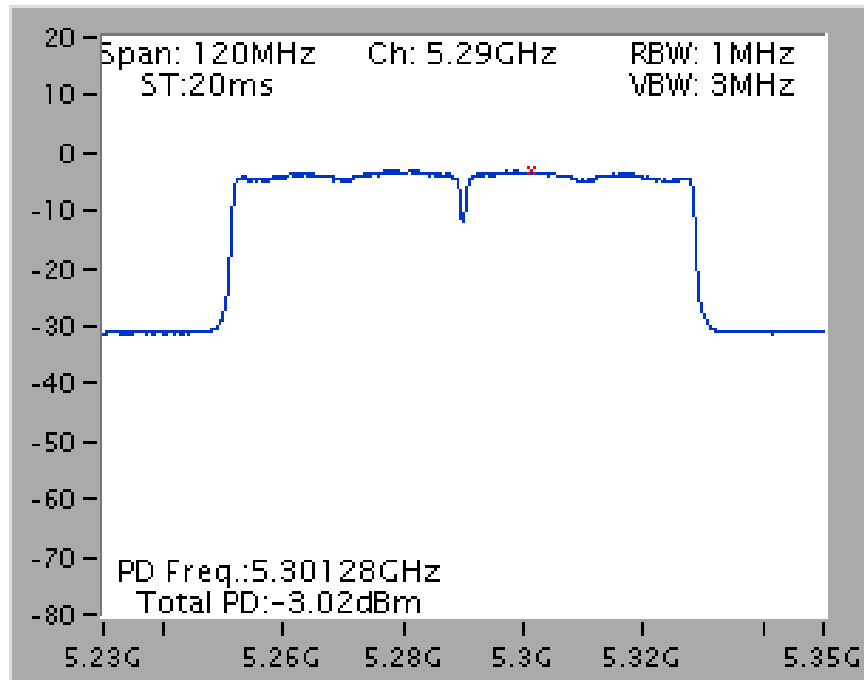
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5550 MHz



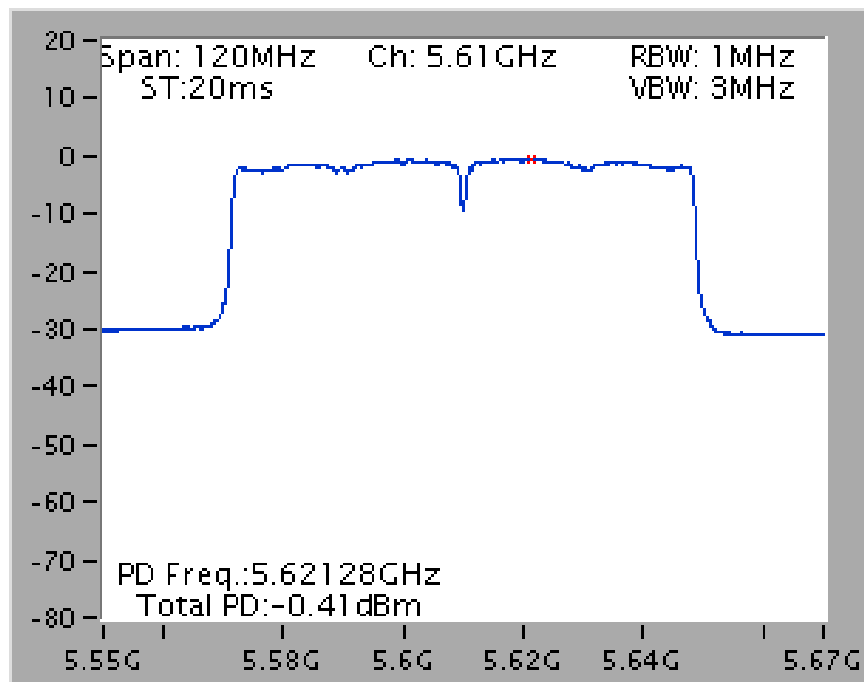
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



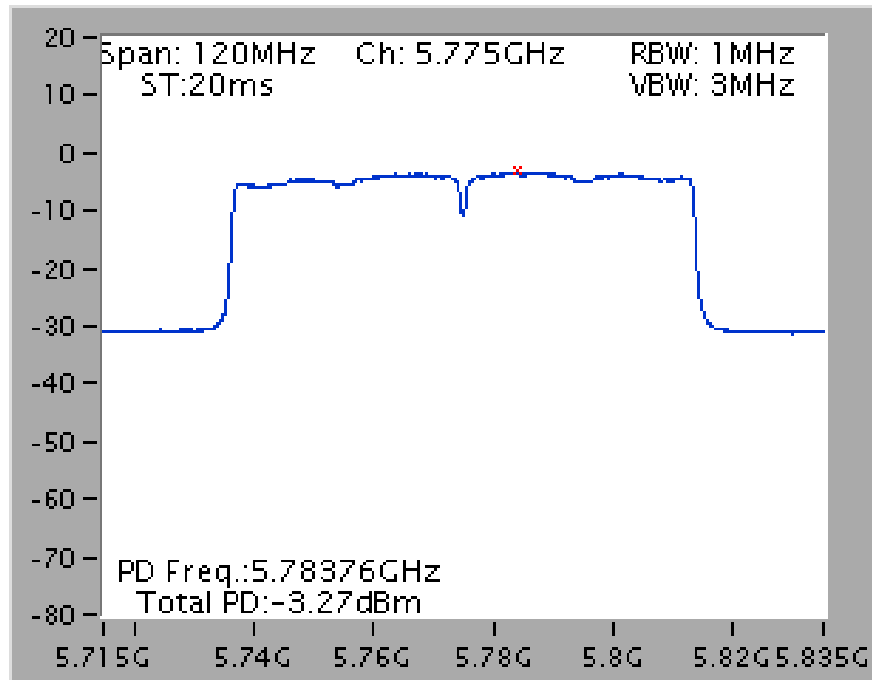
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5610 MHz

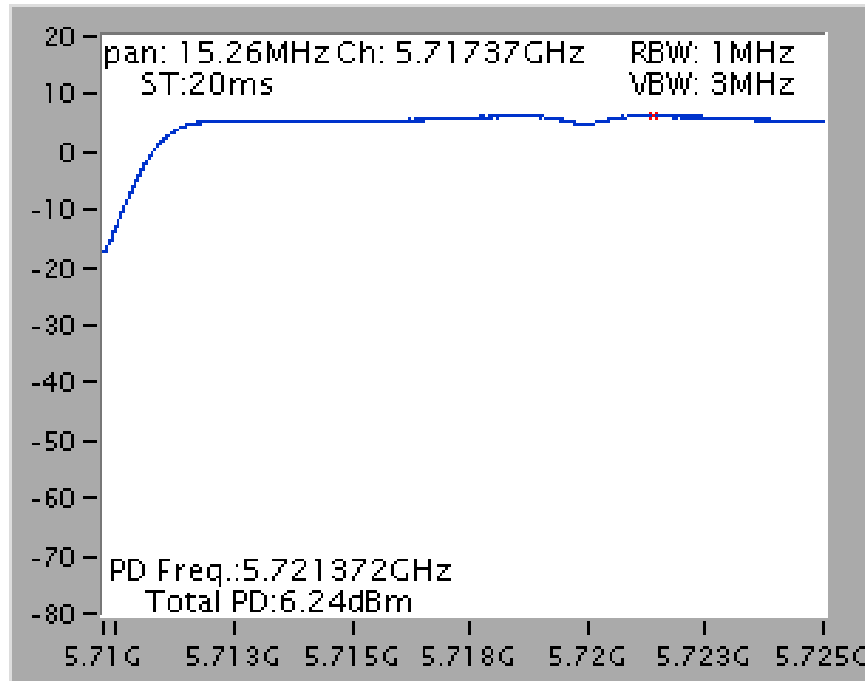


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

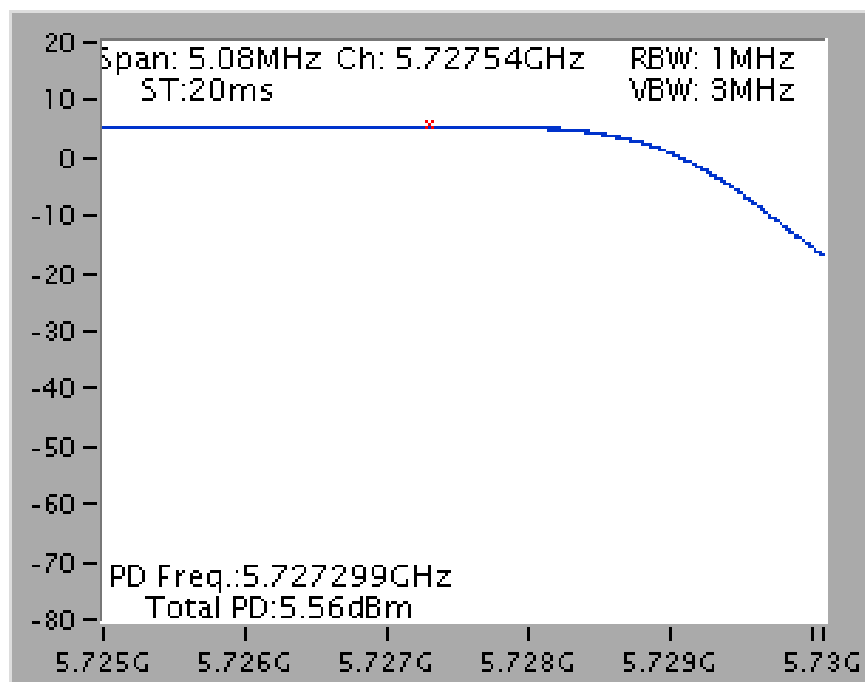


### Straddle Channel

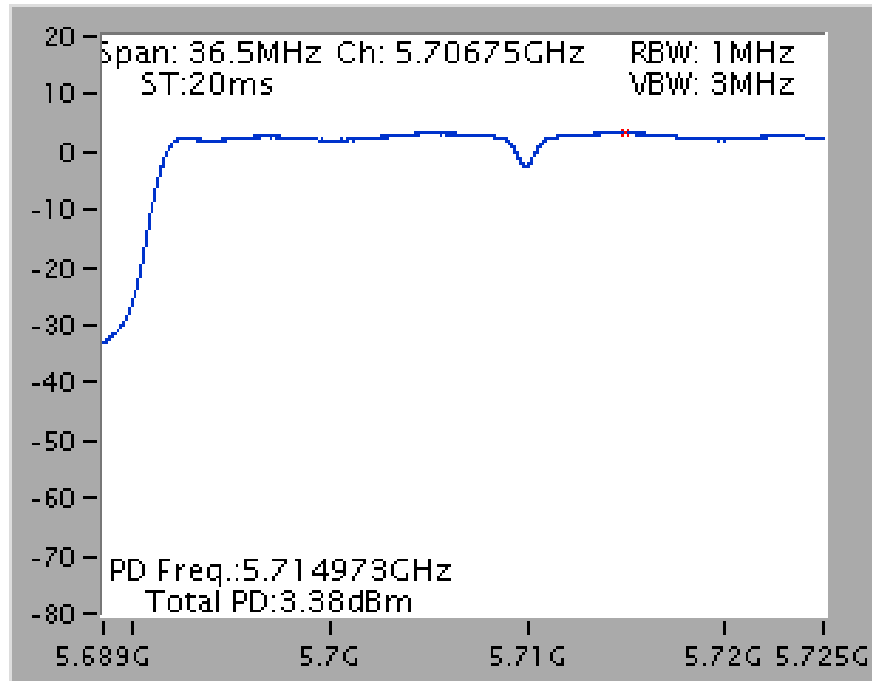
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 2C)



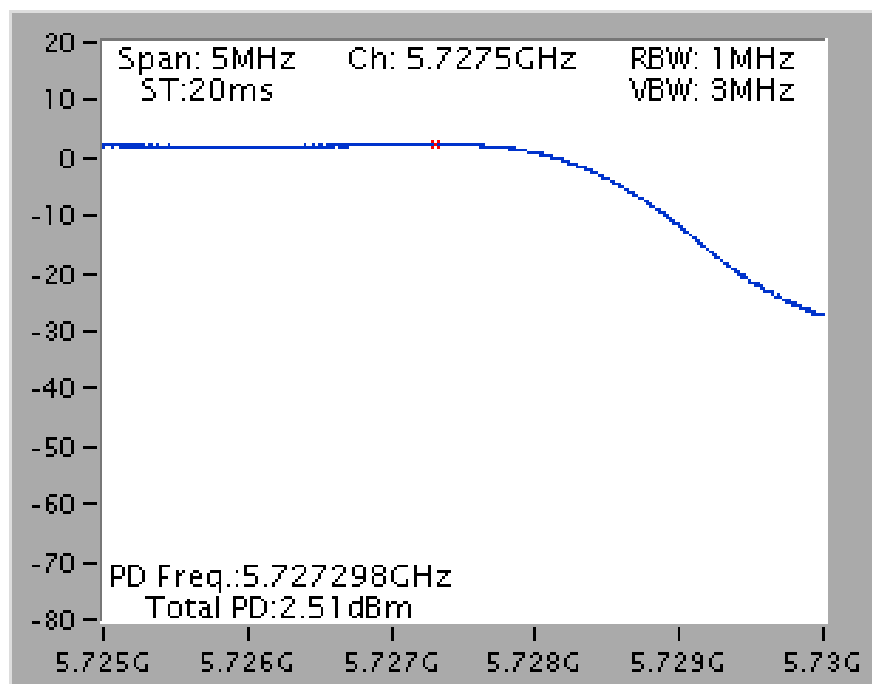
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 3)



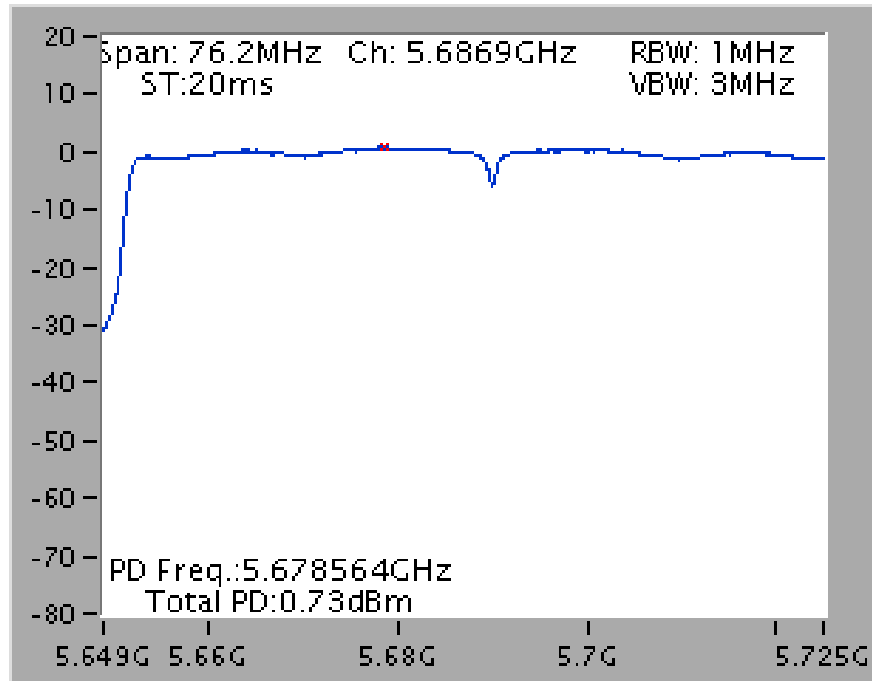
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 2C)



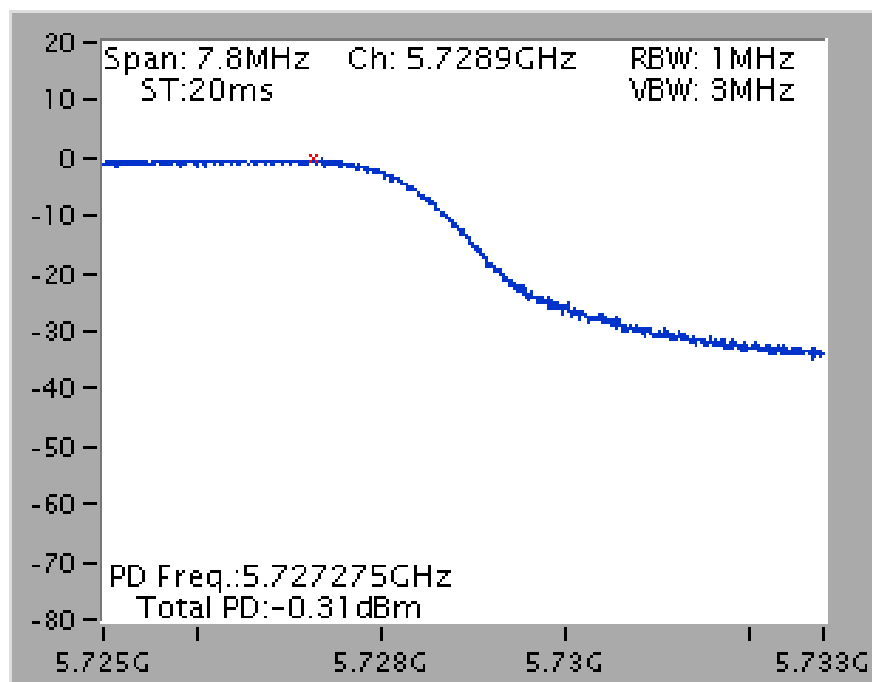
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 2C)

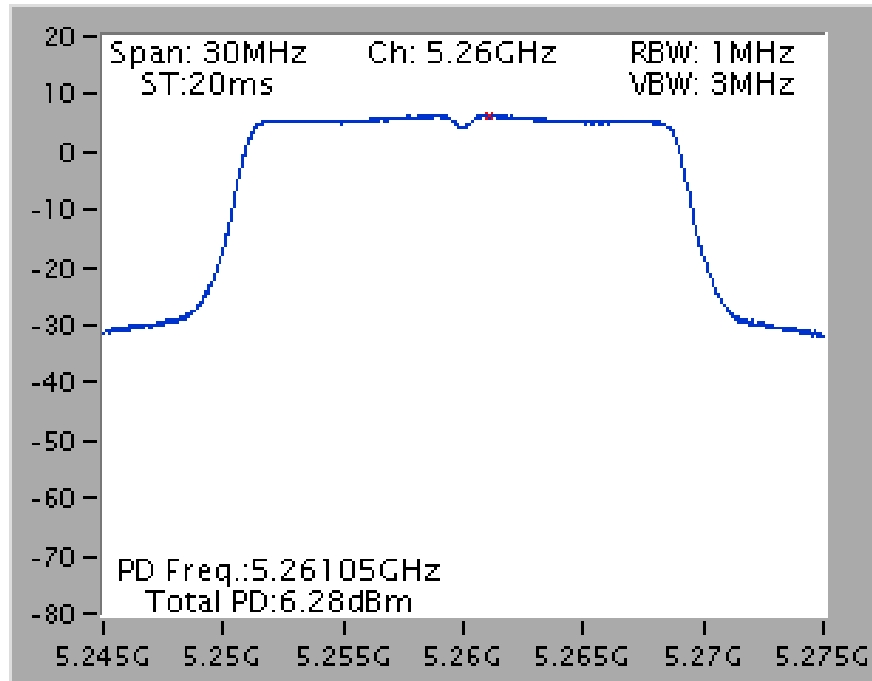


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 3)

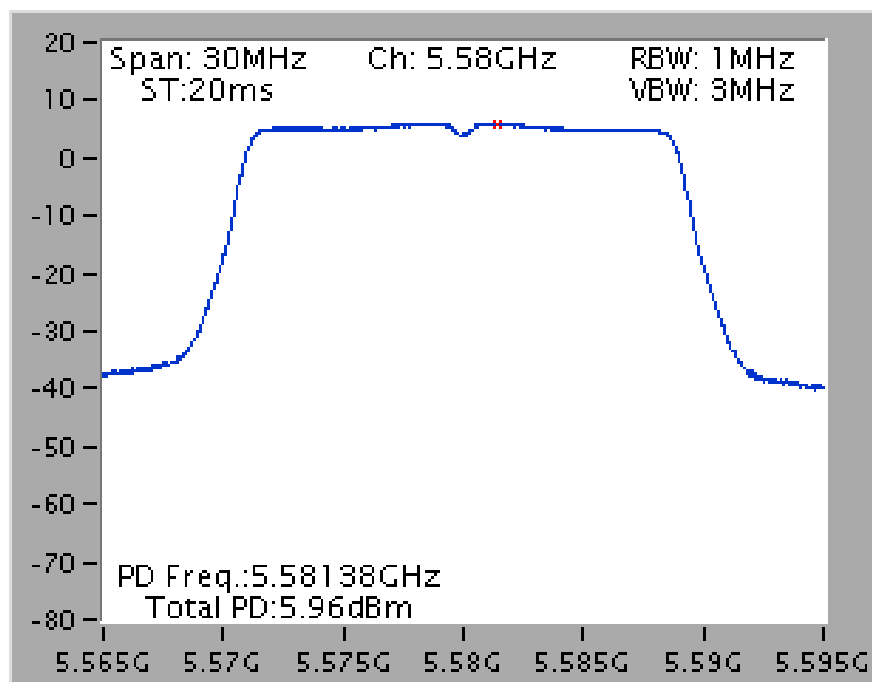


Mode 1 (Ant. 5 Polarized Panel / 10.7dBi / 3TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5260 MHz

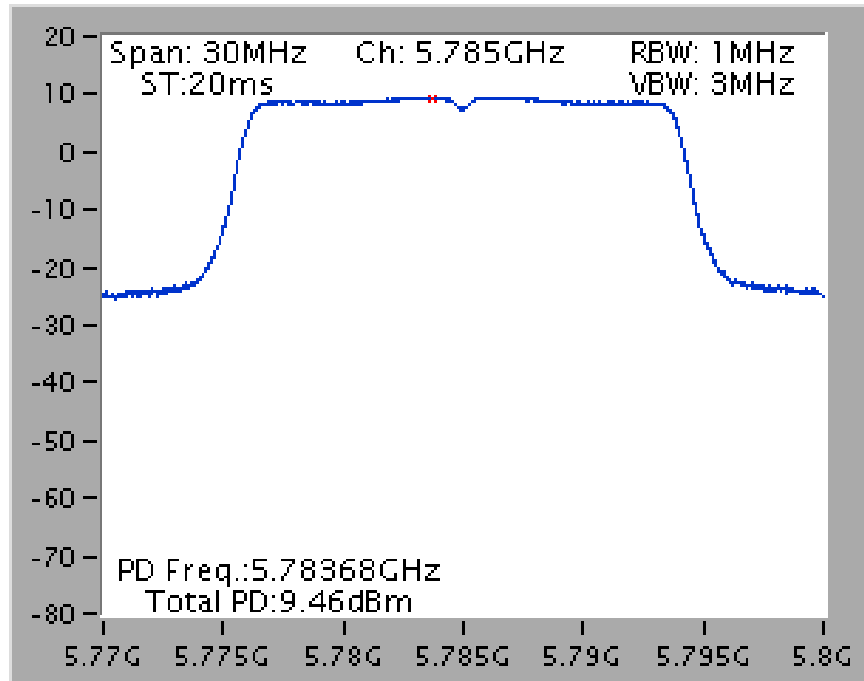


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5580 MHz

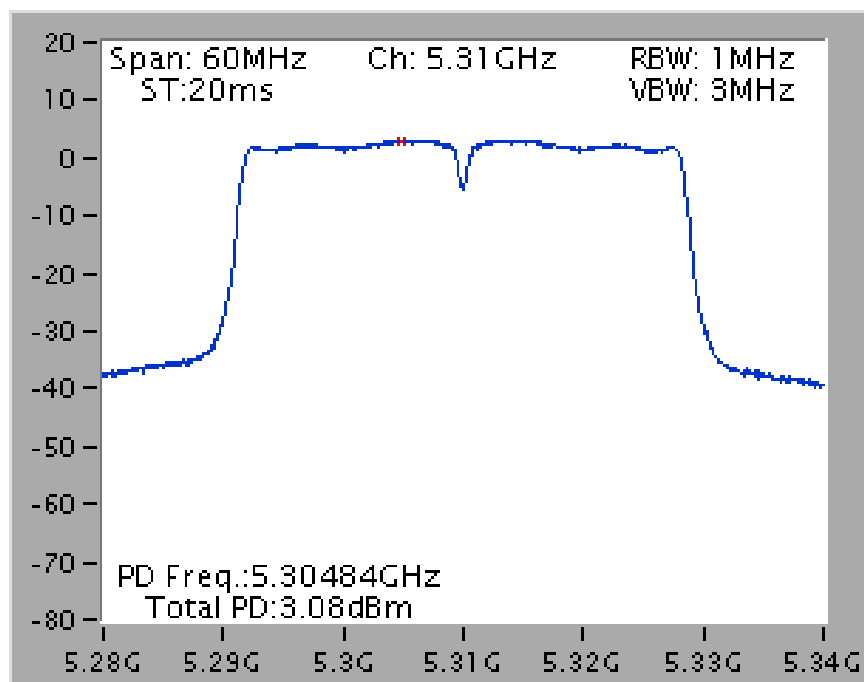




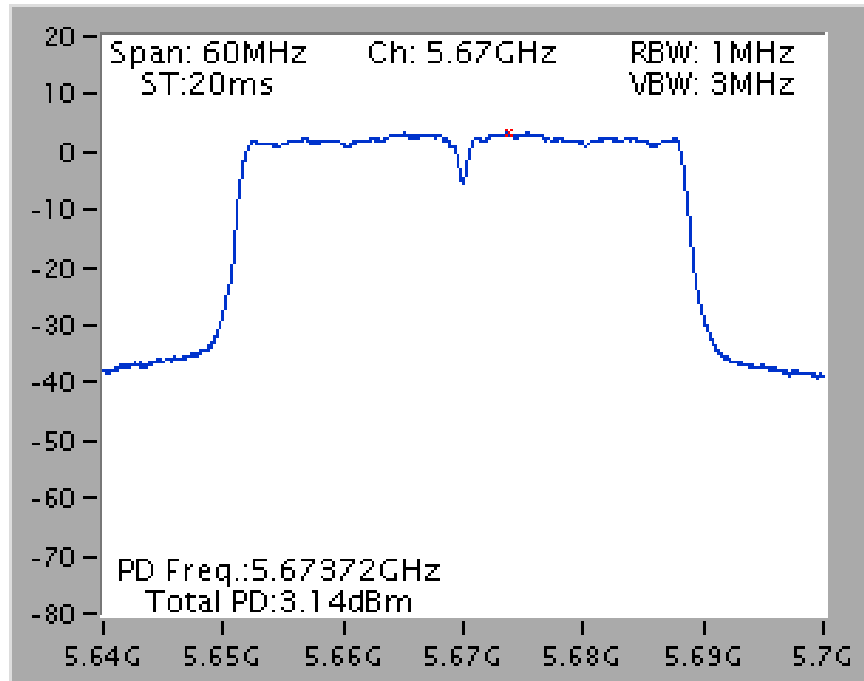
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5785 MHz**



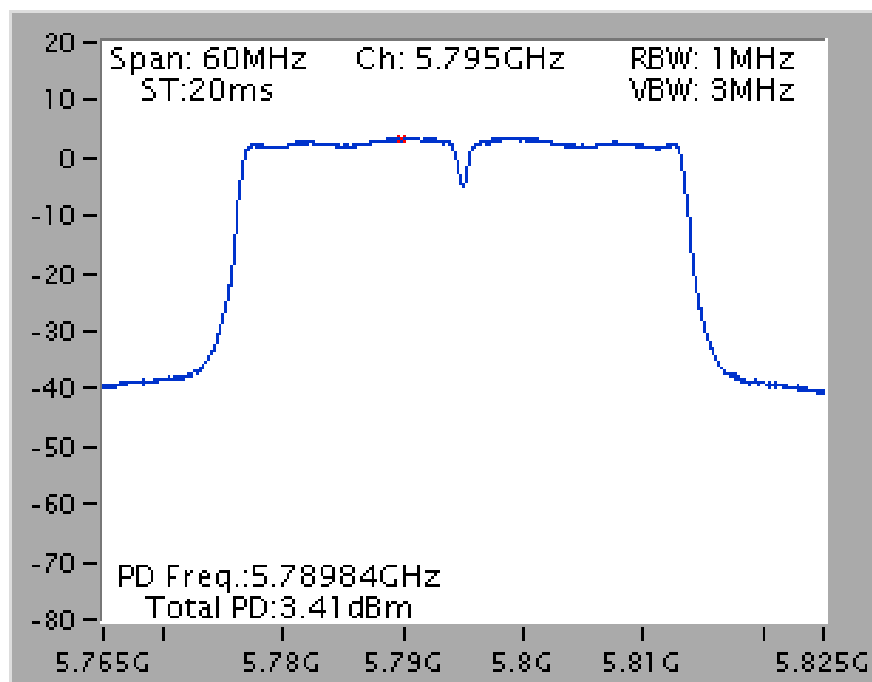
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5310 MHz**



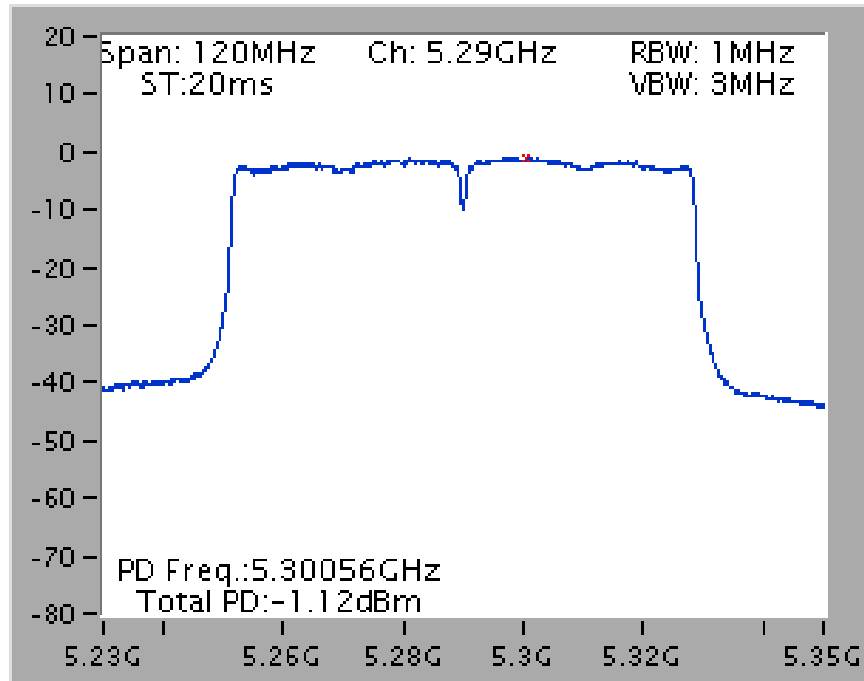
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5670 MHz



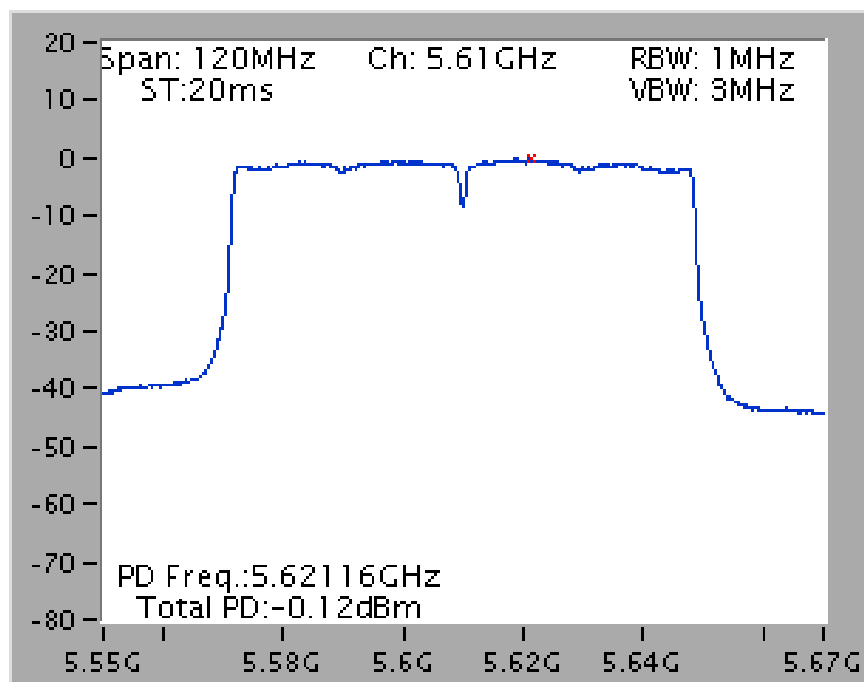
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5795 MHz



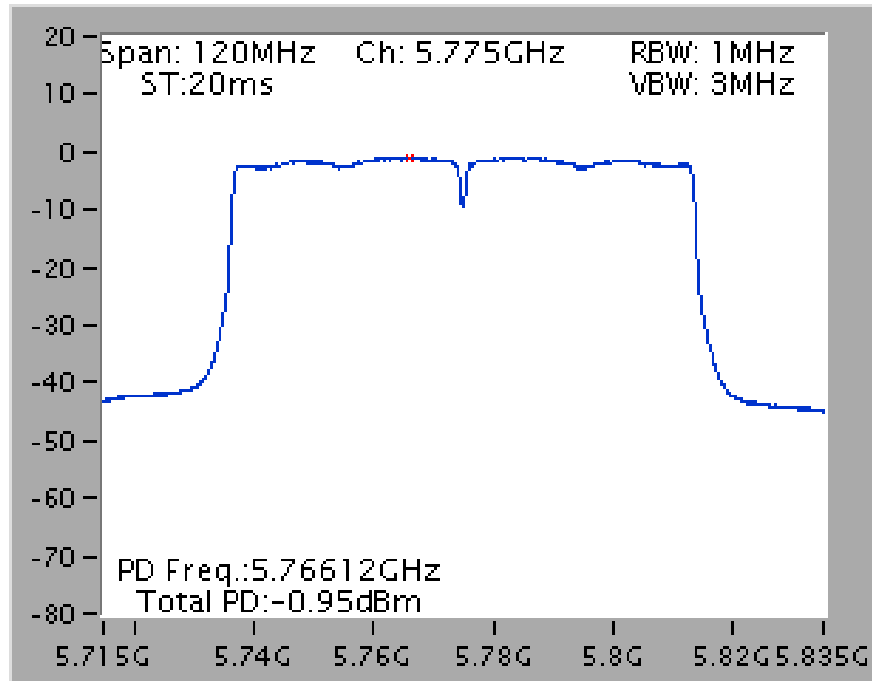
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5290 MHz**



**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5610 MHz**

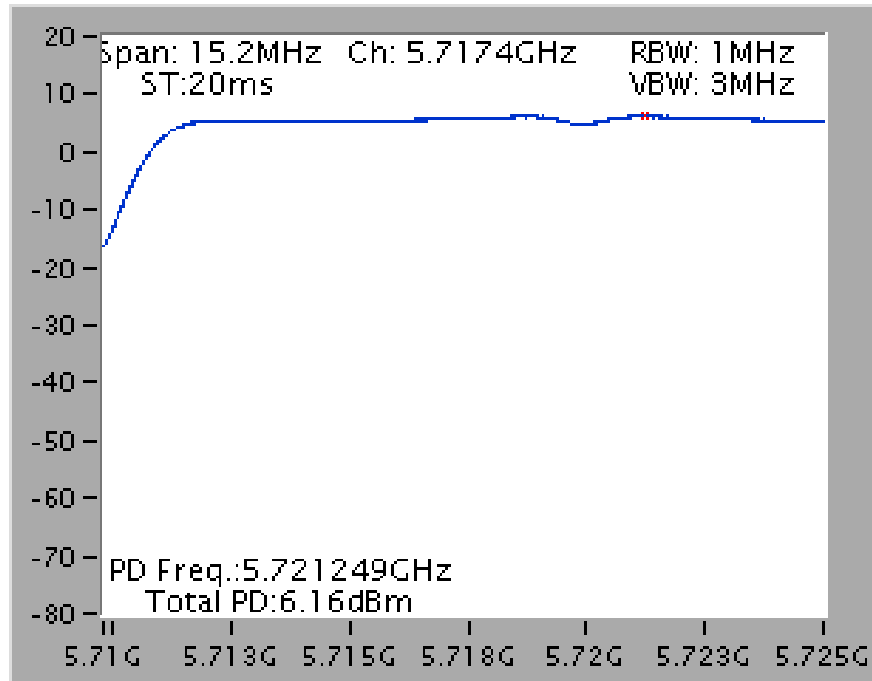


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5775 MHz

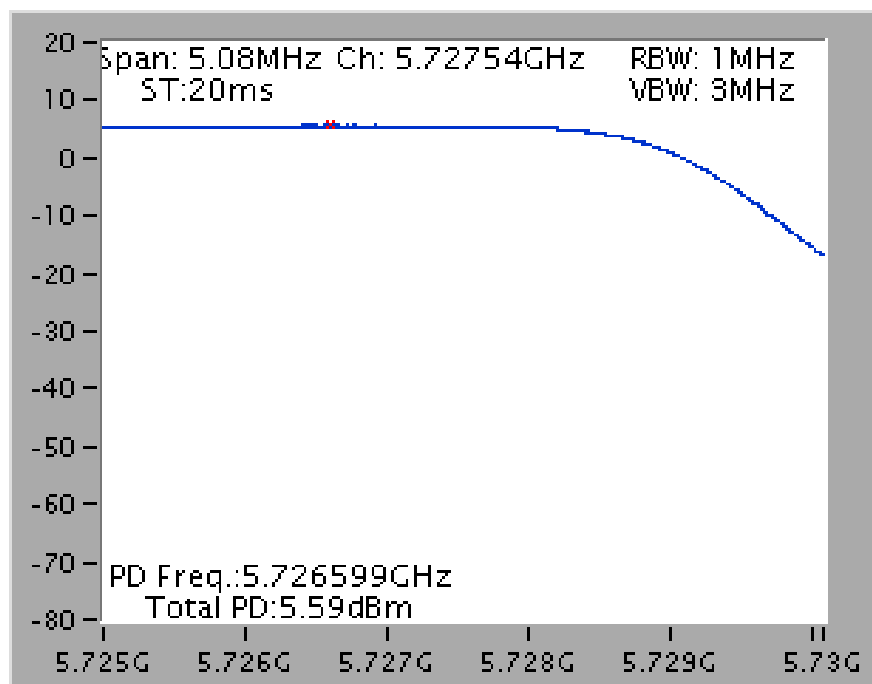


**Straddle Channel**

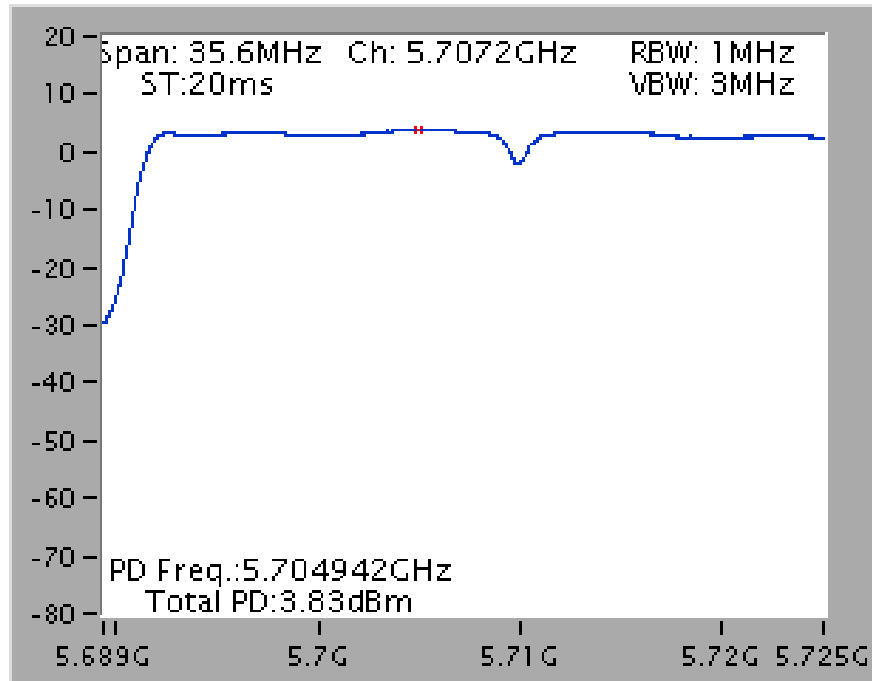
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5720 MHz (UNII 2C)



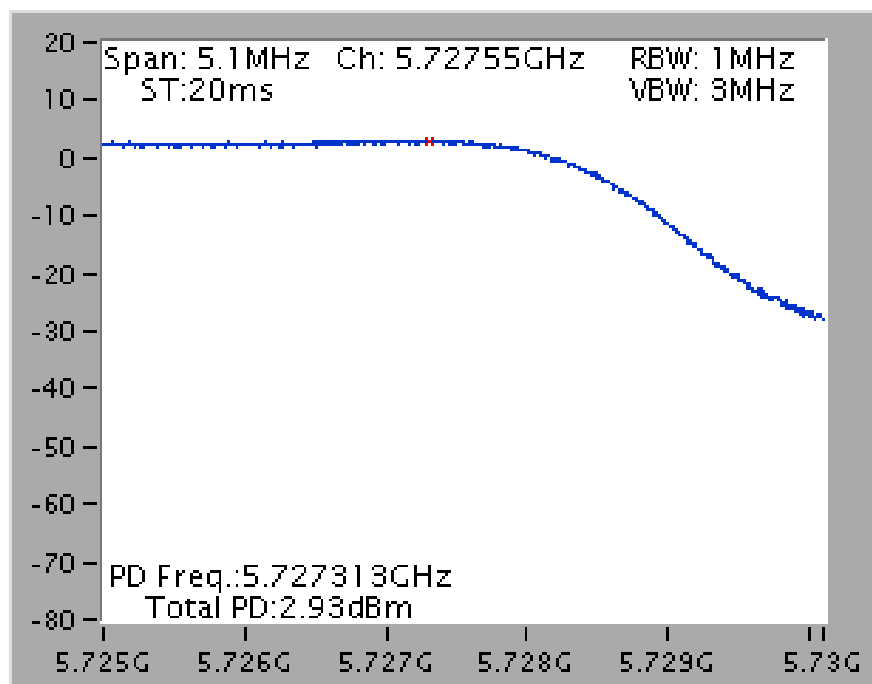
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5720 MHz (UNII 3)



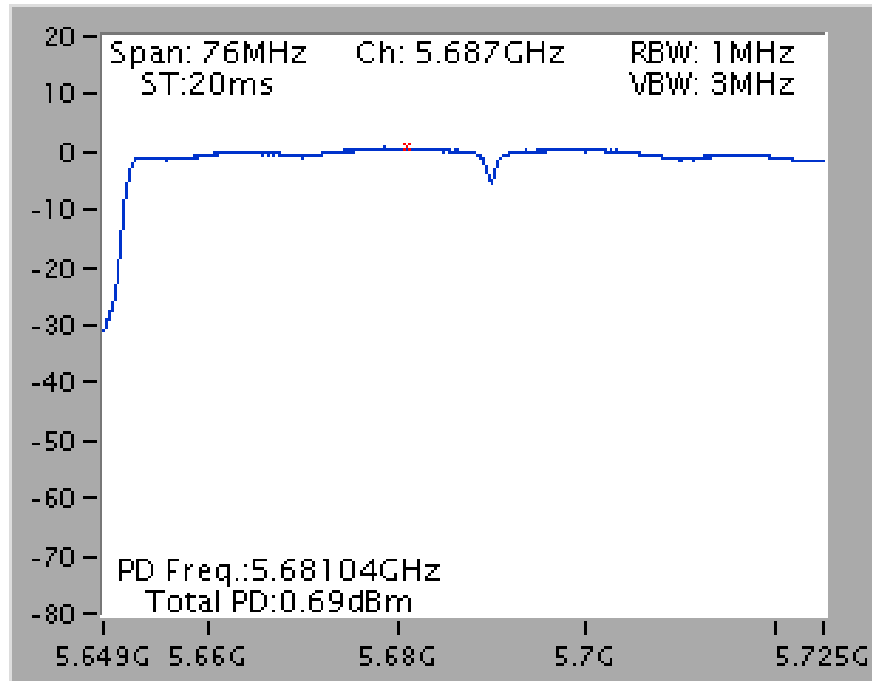
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5710 MHz (UNII 2C)**



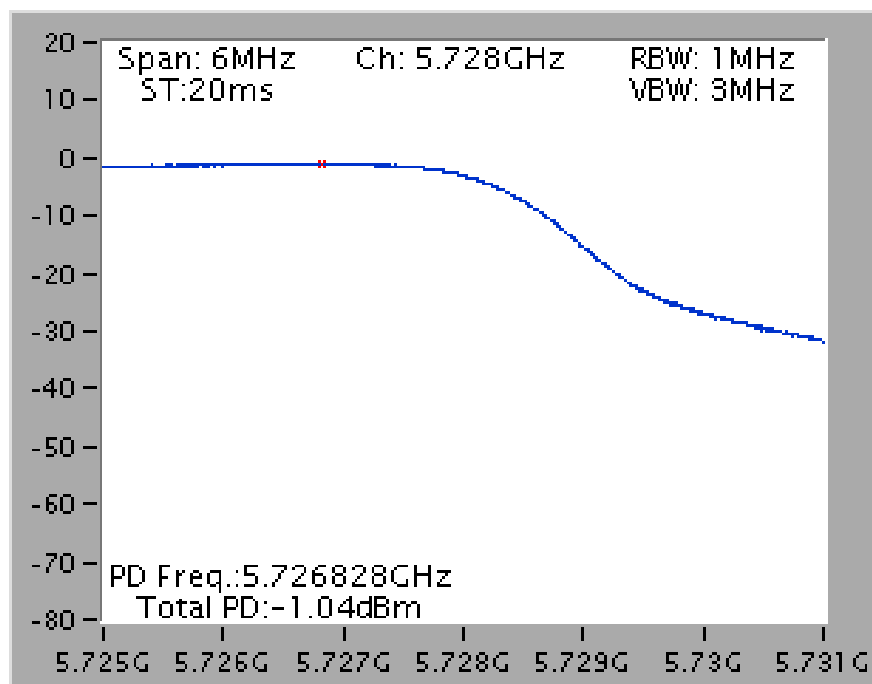
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5710 MHz (UNII 3)**



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 2C)

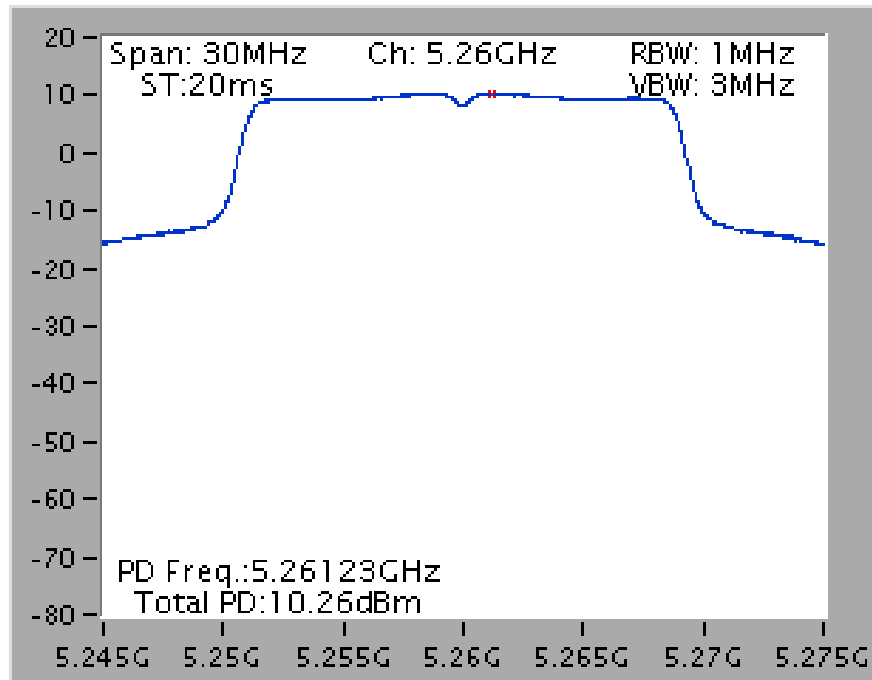


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 3)

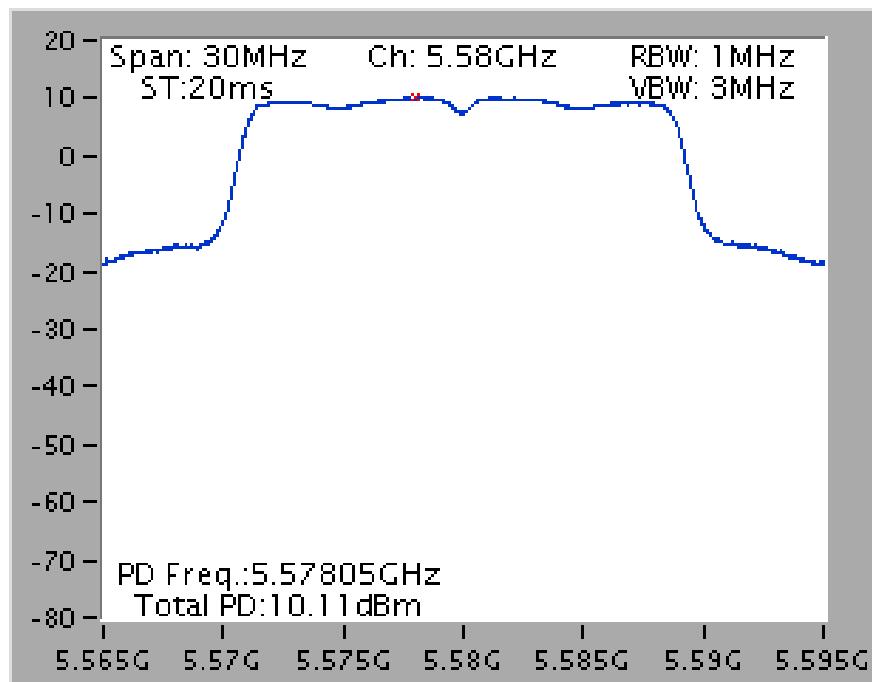


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 2TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5260 MHz

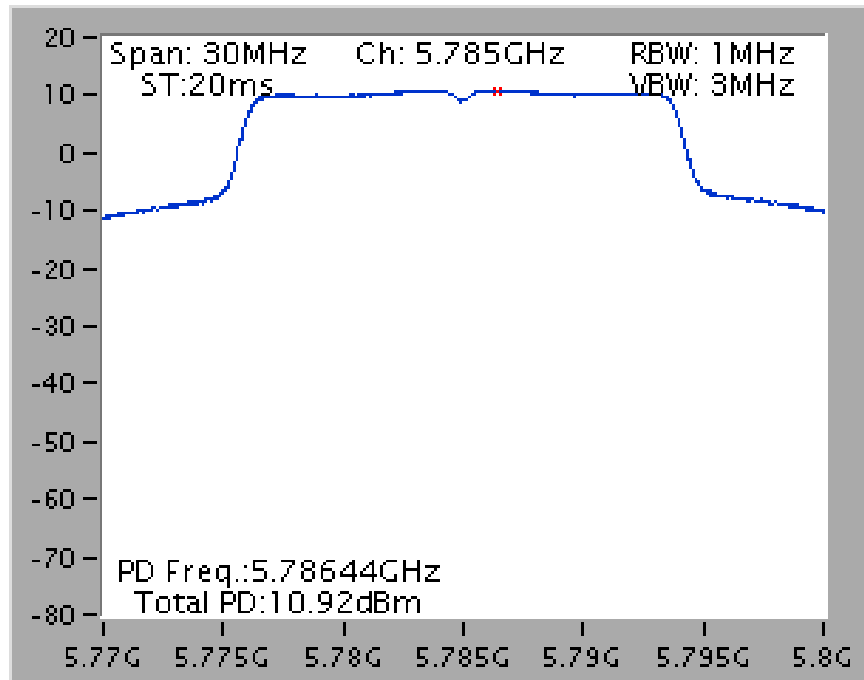


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5580 MHz

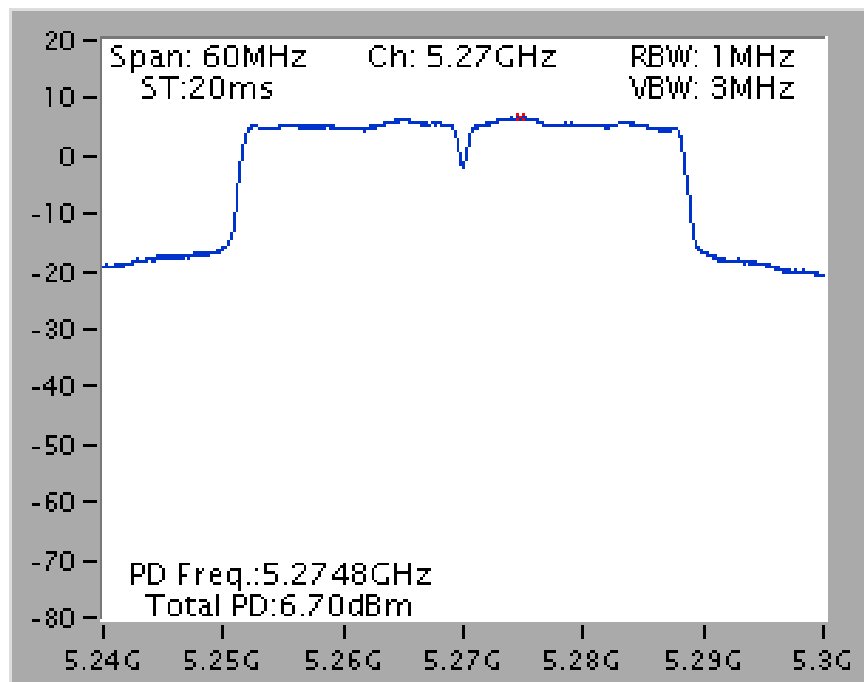




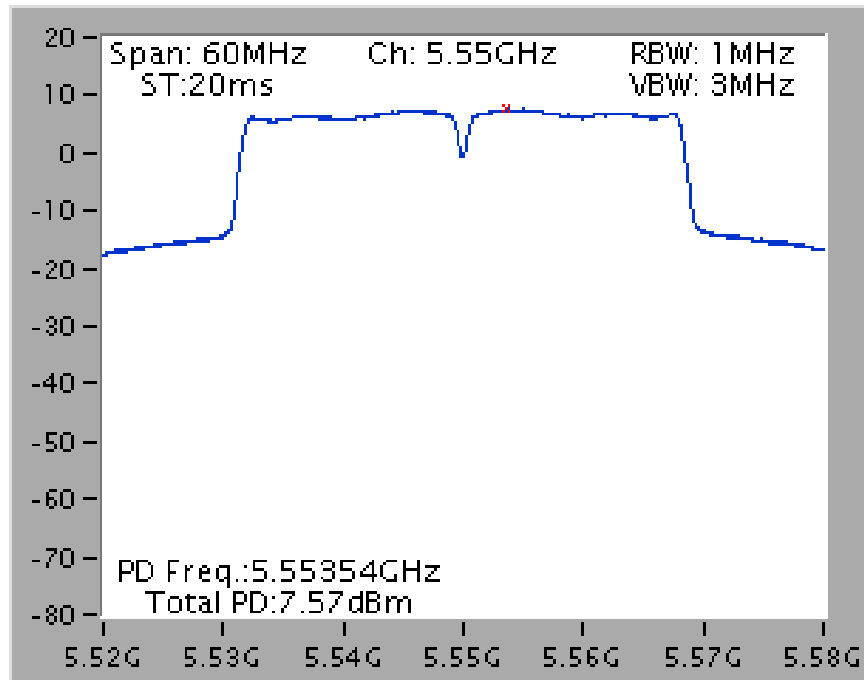
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



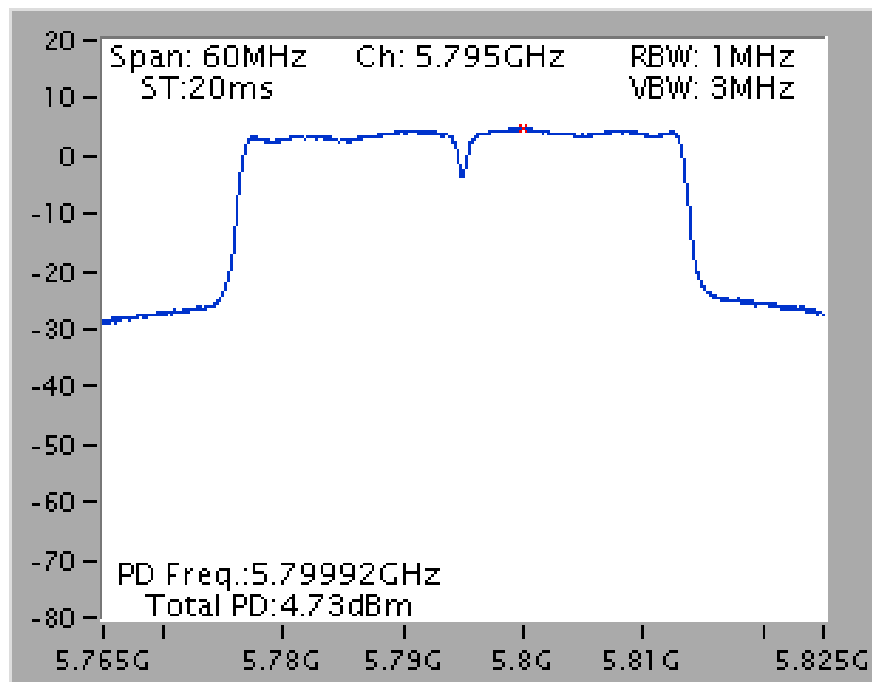
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5270 MHz



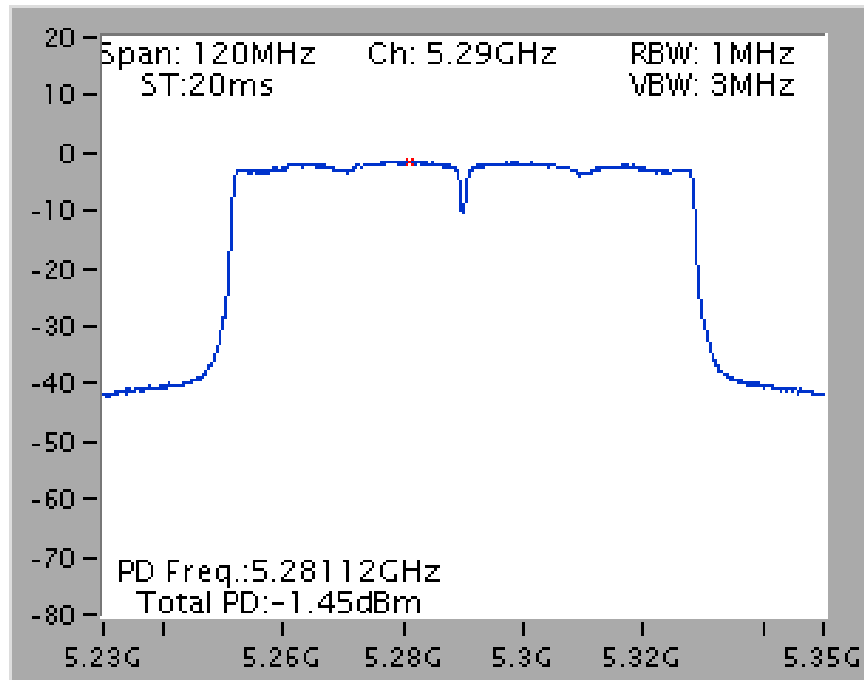
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5550 MHz



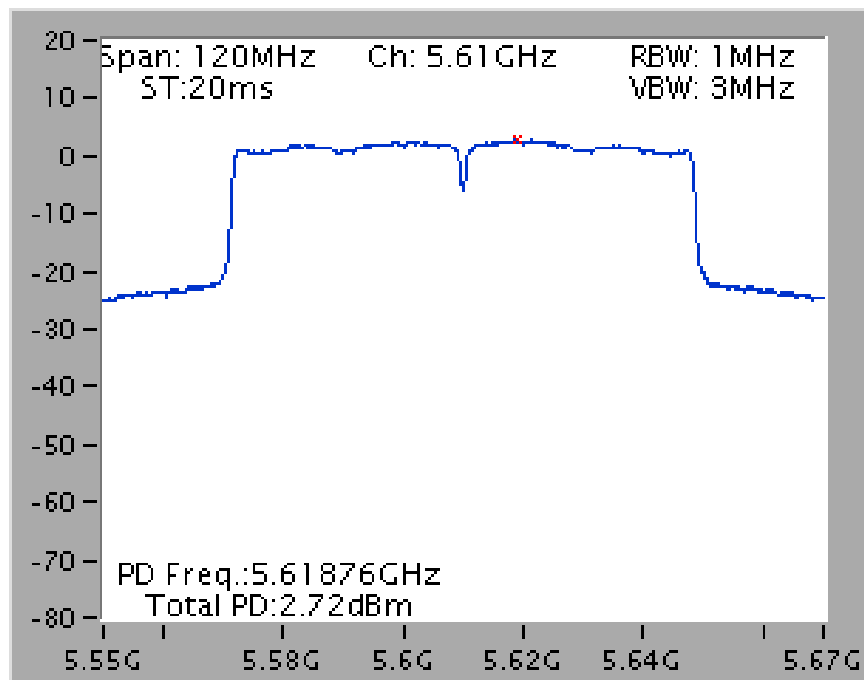
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



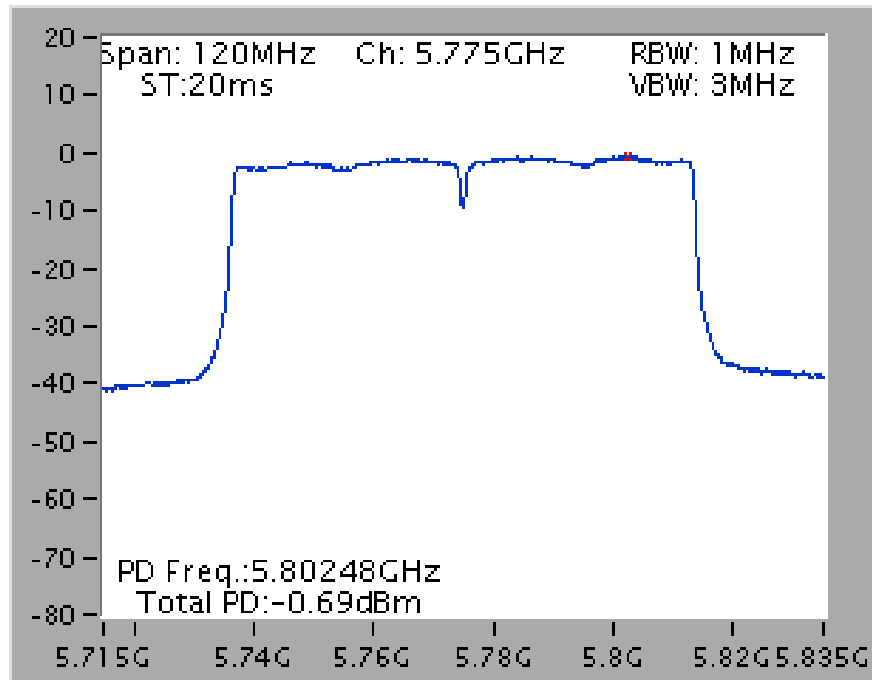
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5610 MHz

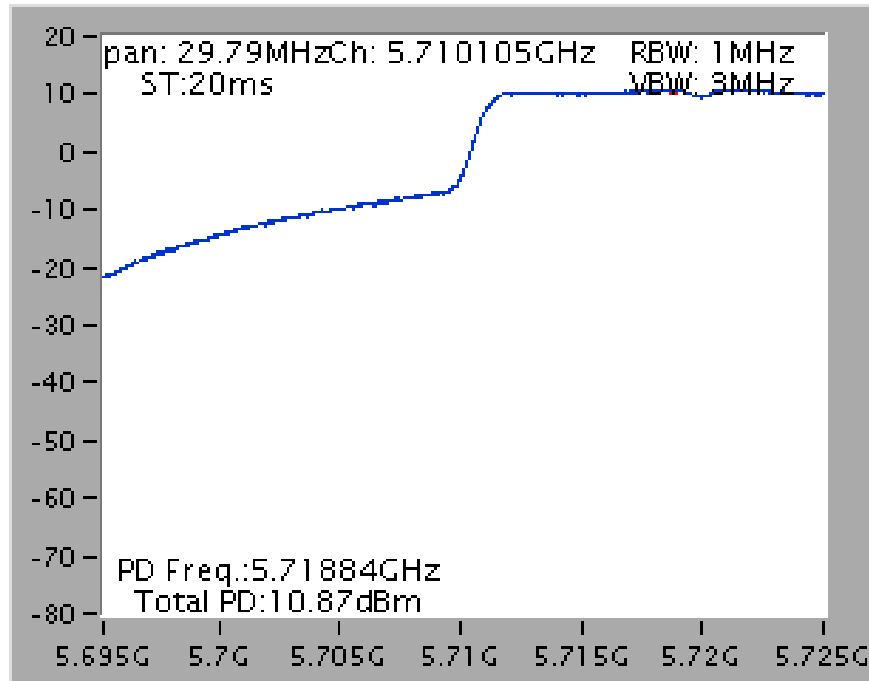


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

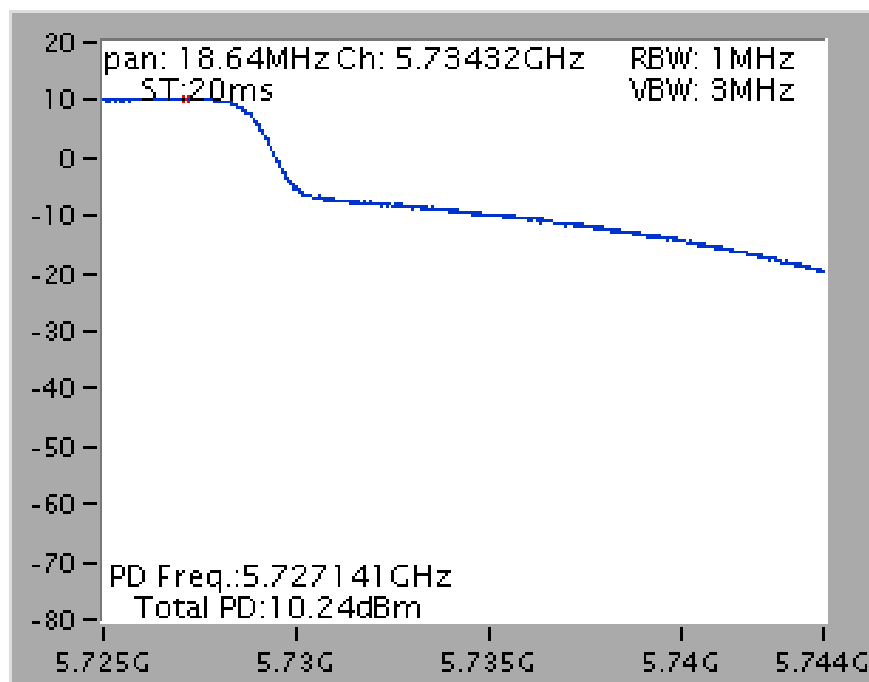


### Straddle Channel

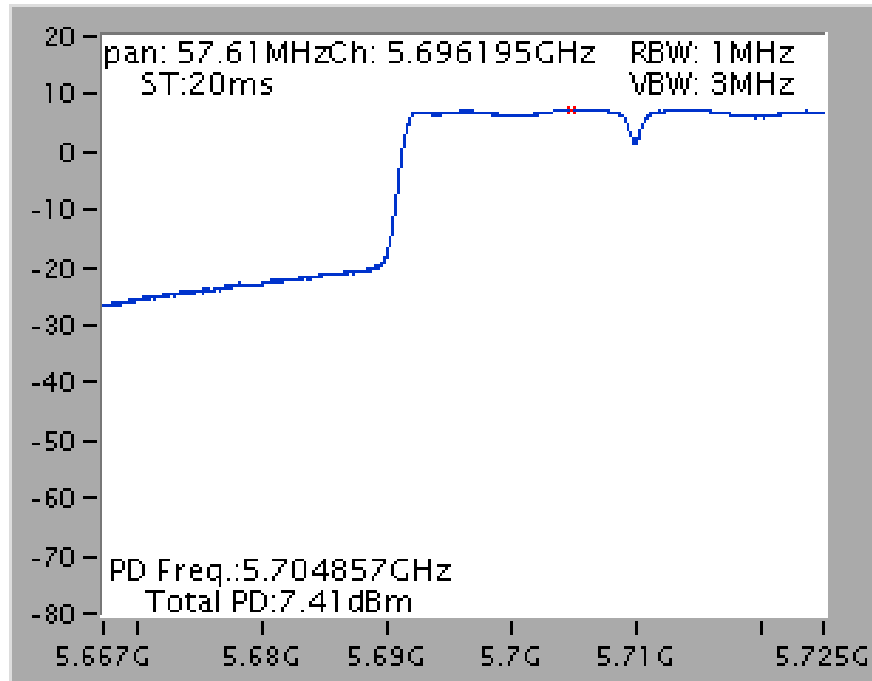
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 2C)



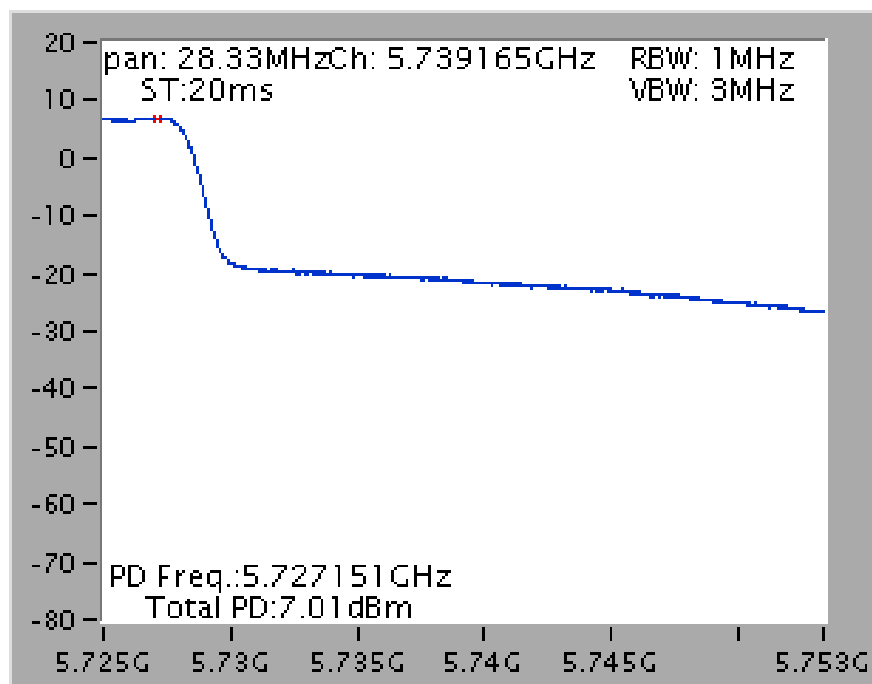
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz  
(UNII 3)



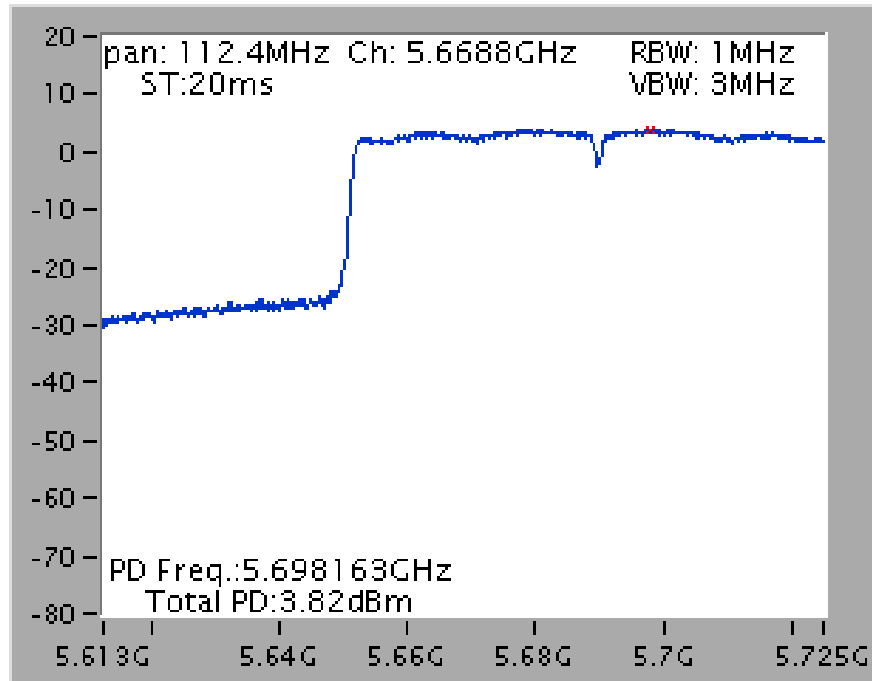
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 2C)



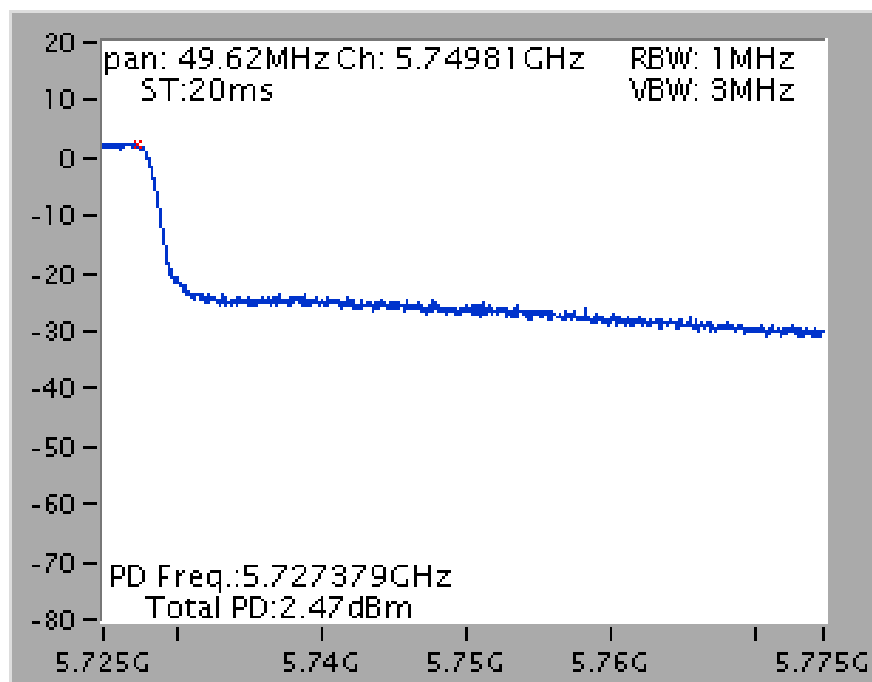
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz  
(UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 2C)

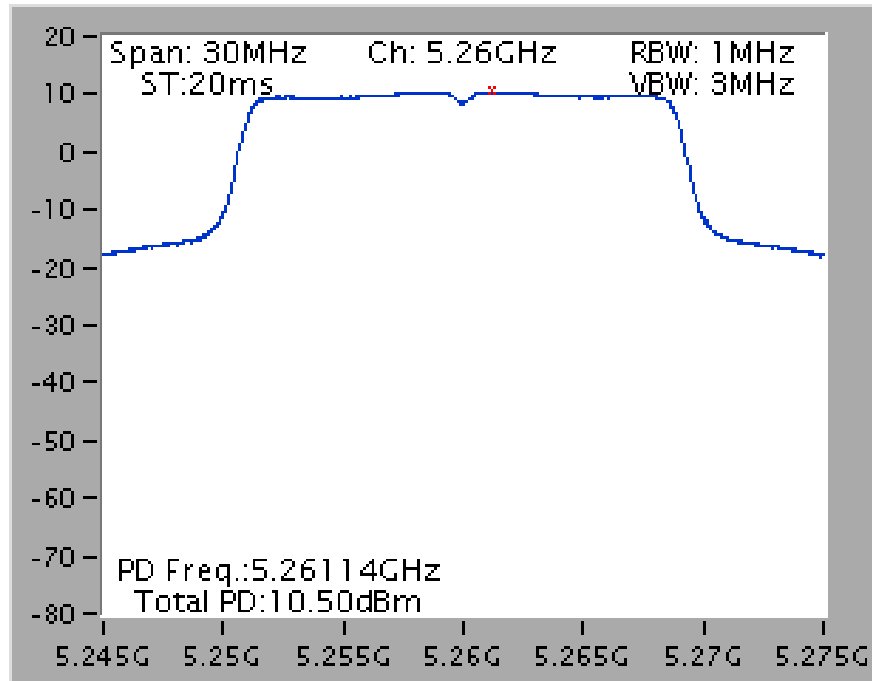


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz  
(UNII 3)

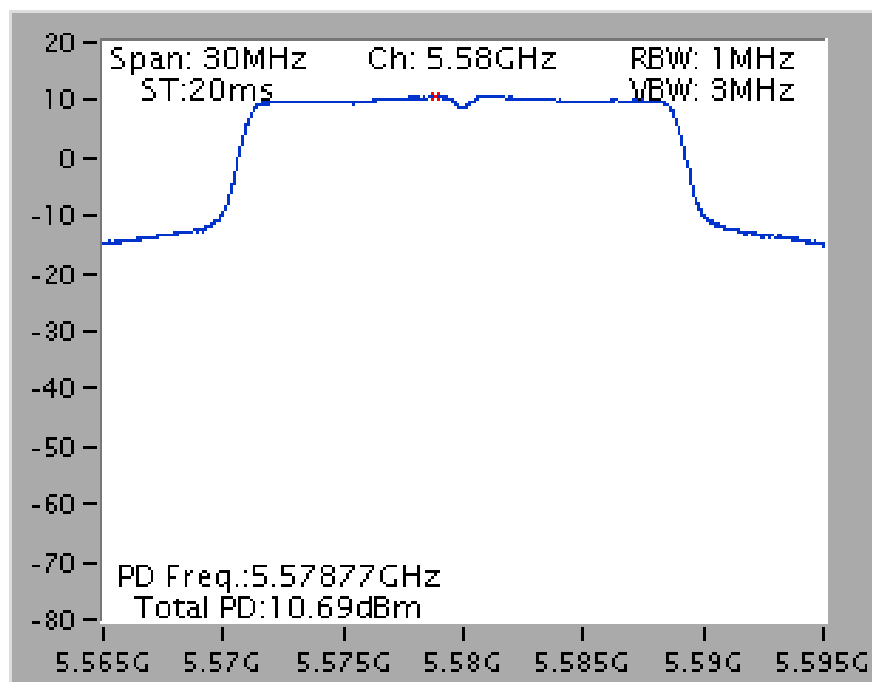


Mode 2 (Ant. 7 Patch antenna / 5.4dBi / 3TX)

Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5260 MHz

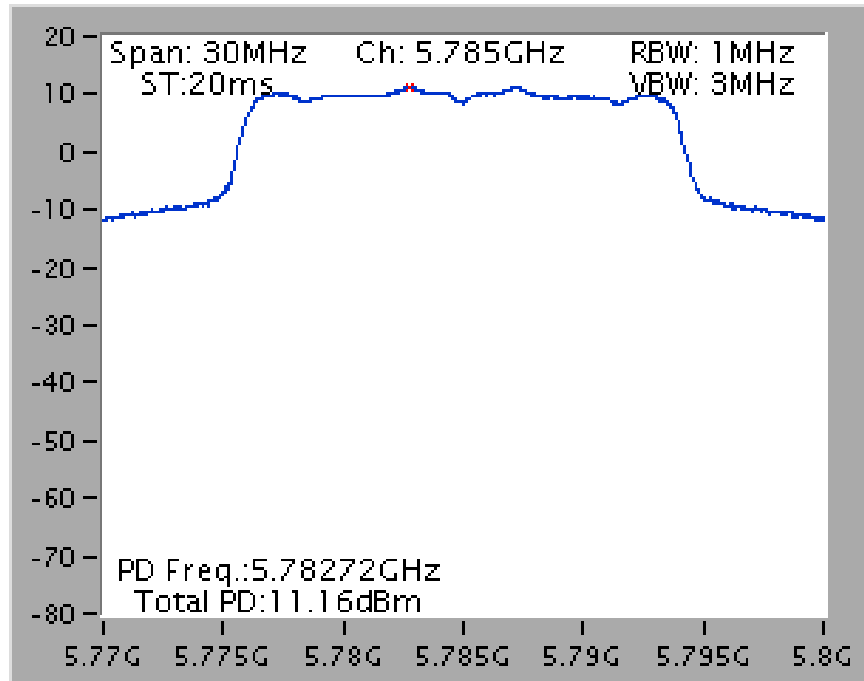


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5580 MHz

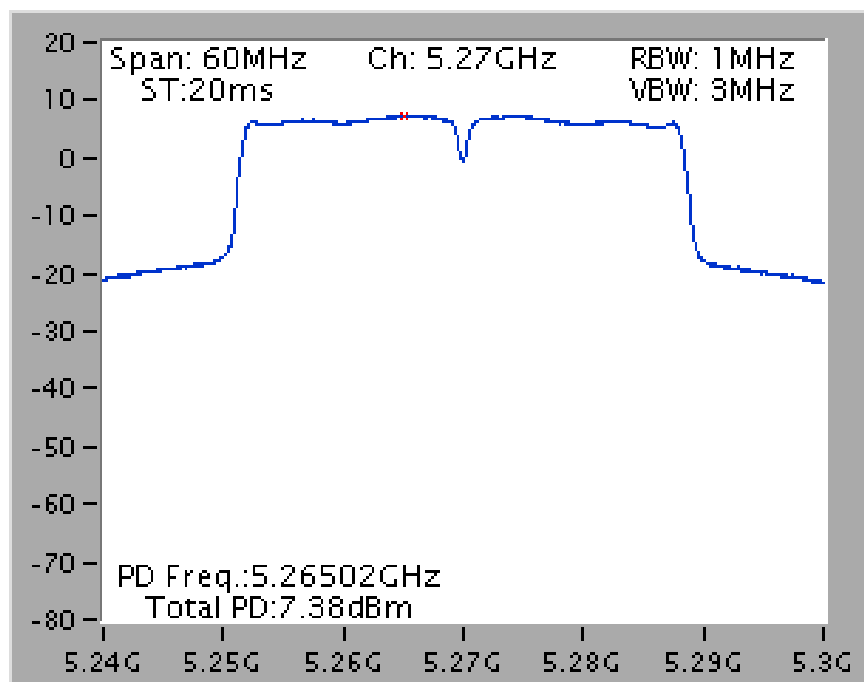




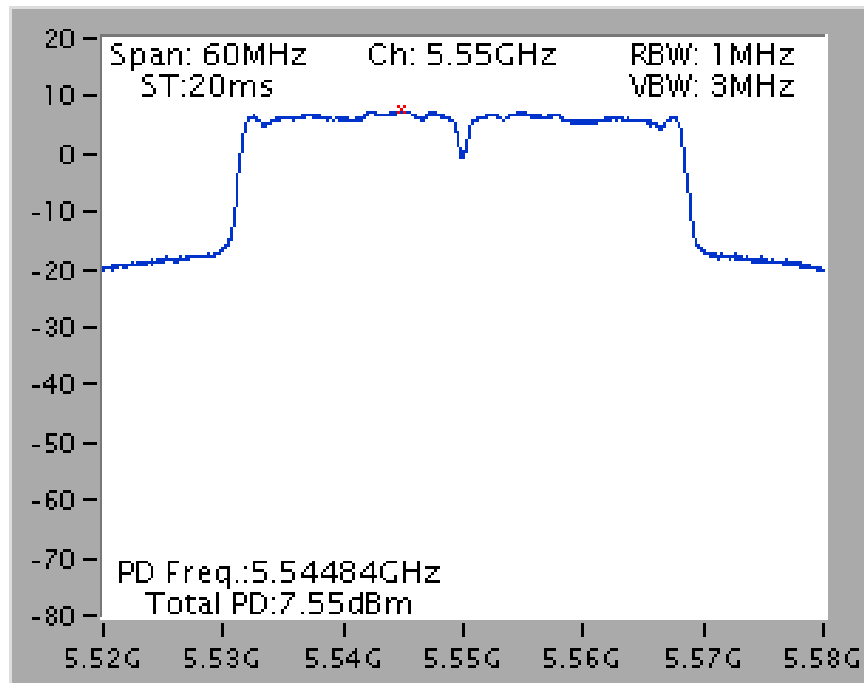
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /  
5785 MHz**



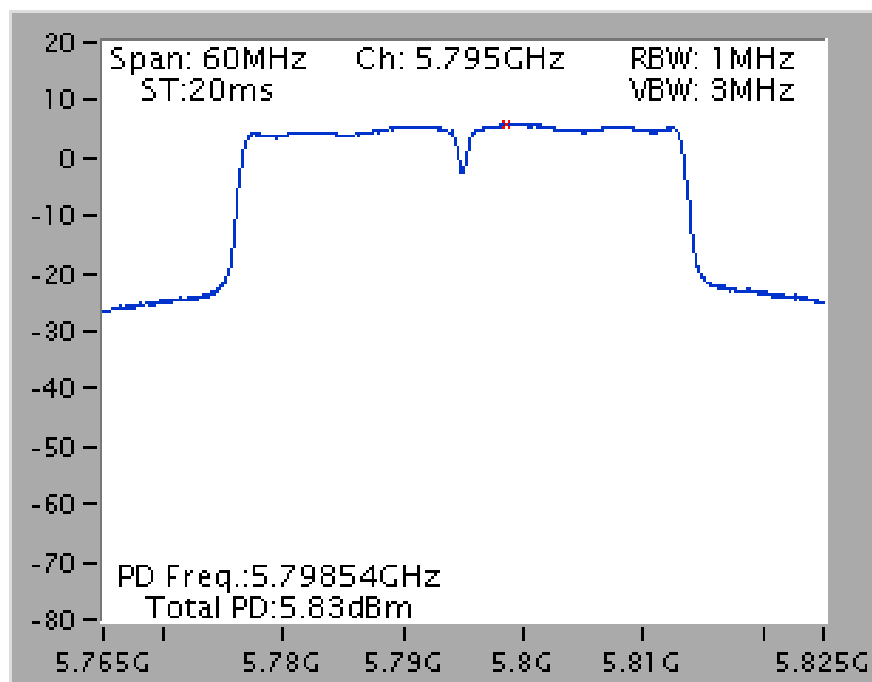
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5270 MHz**



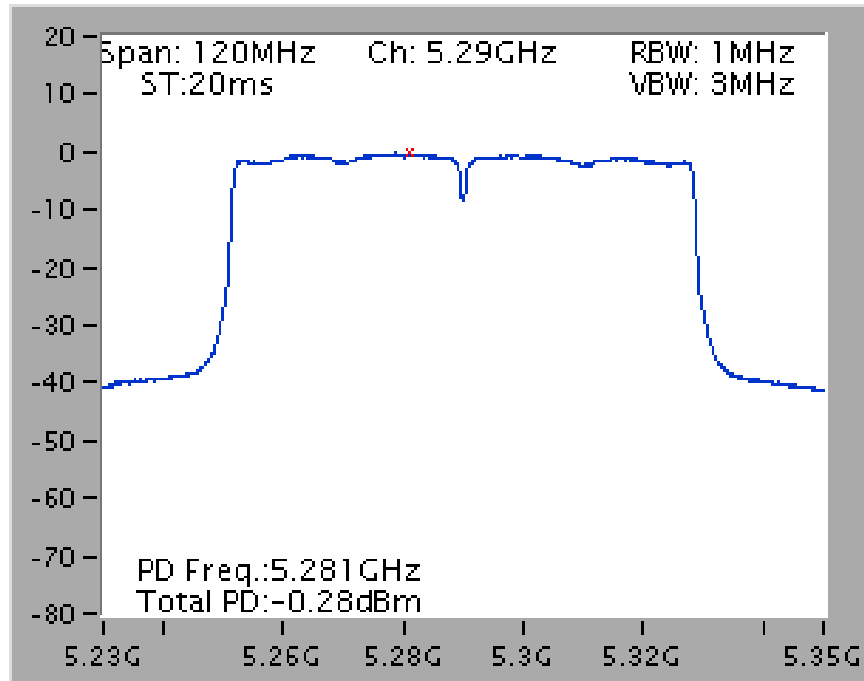
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5550 MHz**



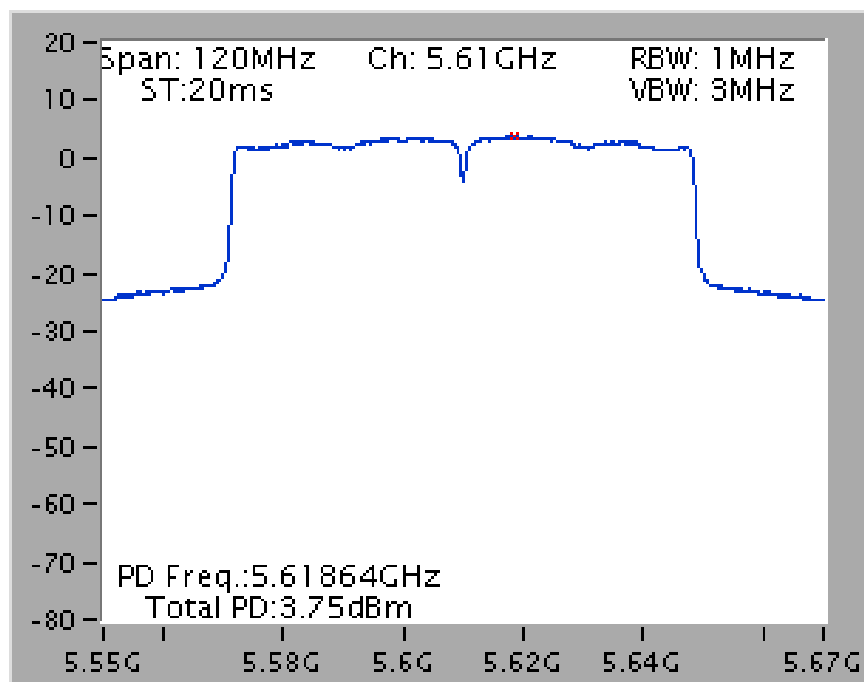
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /  
5795 MHz**



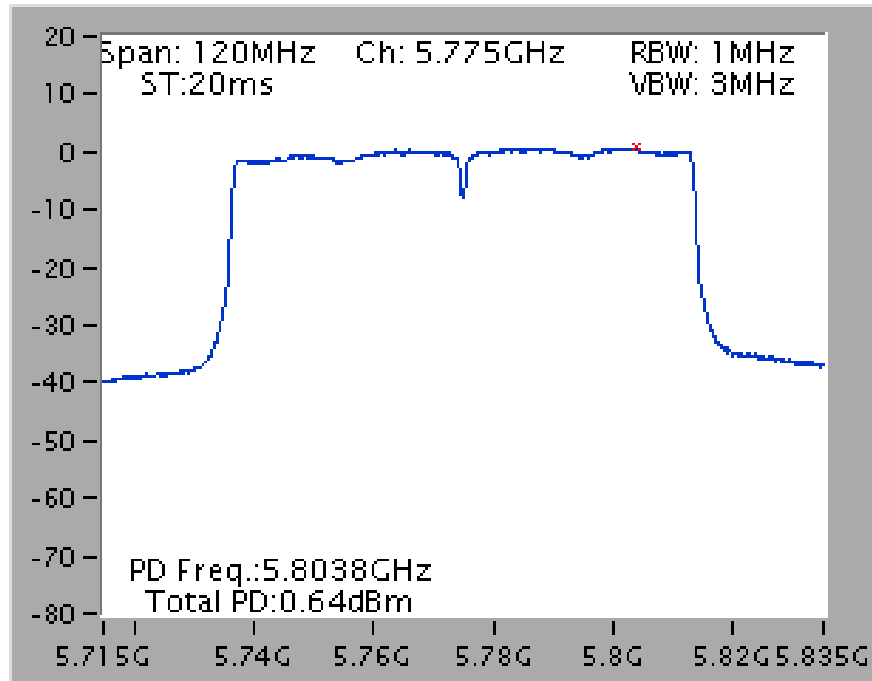
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5610 MHz

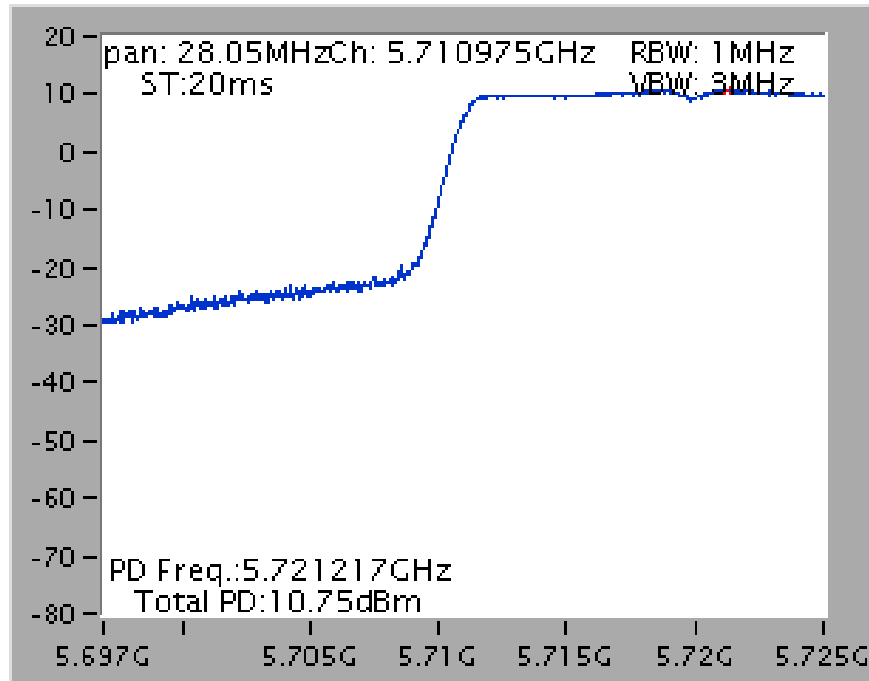


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5775 MHz

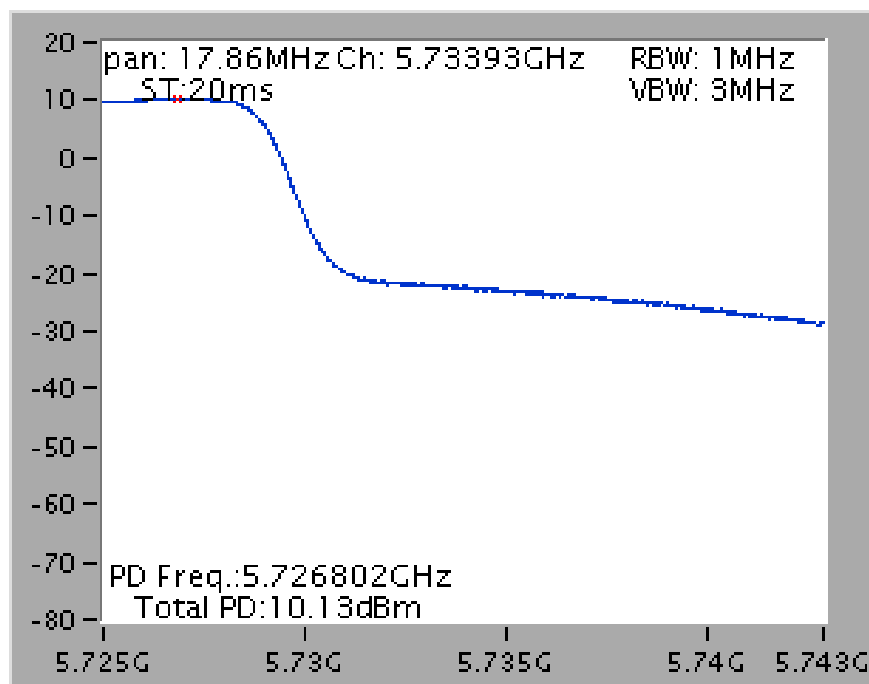


### Straddle Channel

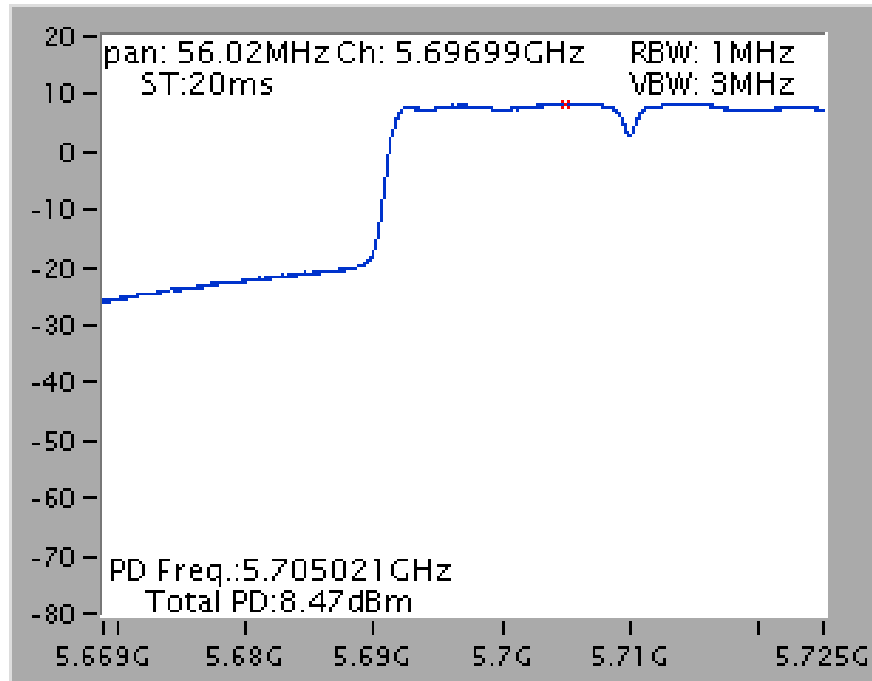
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 2C)



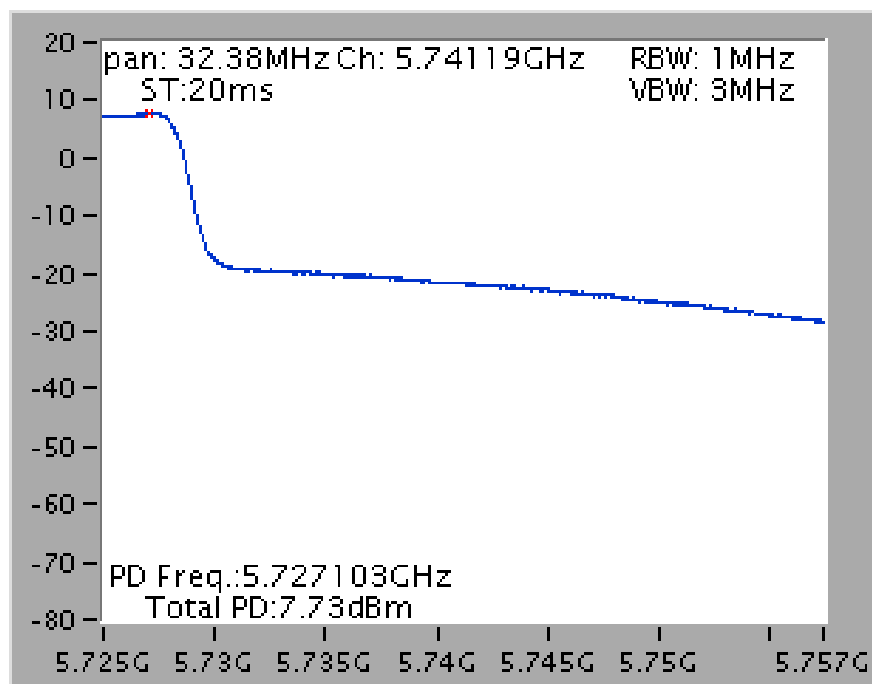
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 3)



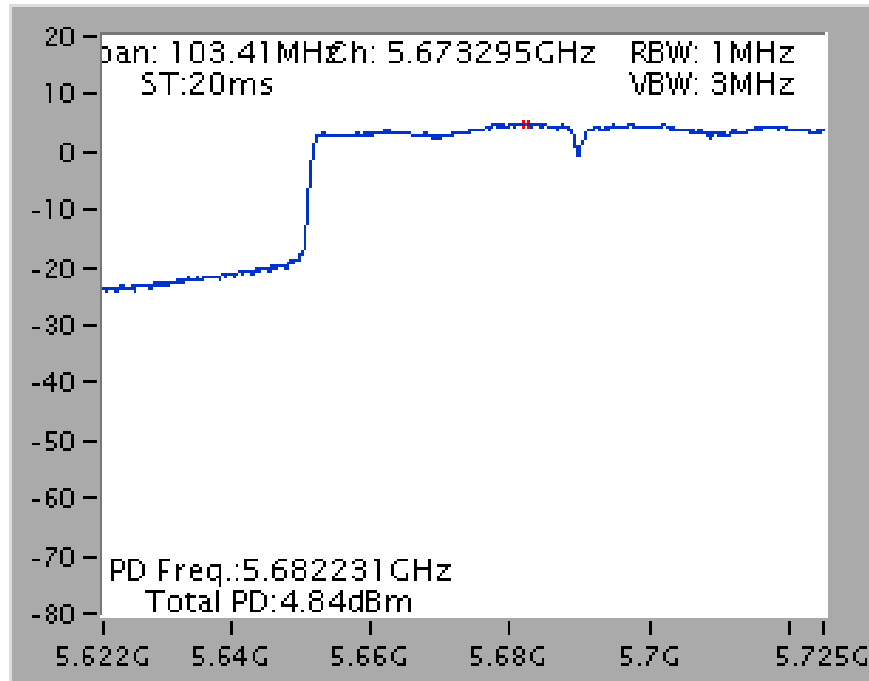
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 / 5710 MHz (UNII 2C)



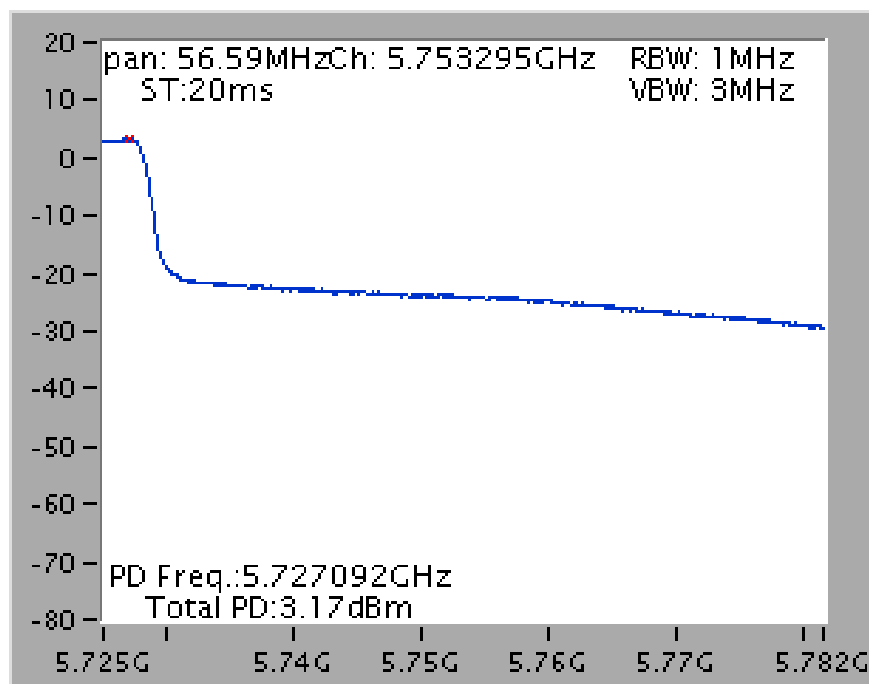
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 / 5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 2C)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /  
5690 MHz (UNII 3)



## 4.6. Radiated Emissions Measurement

### 4.6.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.

For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of  $-17$  dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### 4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW / VBW (Emission in restricted band)	1 MHz / 3MHz for Peak, 1 MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1 MHz / 3MHz for peak



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

#### 4.6.3. Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.