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# FCC Test Report

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Report No.: AGC11034220802FE06

**FCC ID** : 2AYHE-2205B  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Video Doorbell  
**BRAND NAME** : Reolink  
**MODEL NAME** : Reolink Video Doorbell WiFi  
**APPLICANT** : Reolink Innovation Limited  
**DATE OF ISSUE** : Nov. 02, 2022  
**STANDARD(S)** : FCC Part 15.407  
**TEST PROCEDURE(S)** : KDB 789033 D02 v02r01  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 02, 2022	Valid	Initial Release

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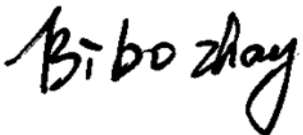


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### 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Reolink Innovation Limited
<b>Address</b>	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
<b>Manufacturer</b>	Reolink Innovation Limited
<b>Address</b>	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
<b>Factory</b>	Shenzhen Reolink Technology Co., Ltd
<b>Address</b>	2-4th Floor, Building 2, Yuanling Industrial Park, ShangWu, Shiyan Street, Bao'an District, Shenzhen, China
<b>Product Designation</b>	Video Doorbell
<b>Brand Name</b>	Reolink
<b>Test Model</b>	Reolink Video Doorbell WiFi
<b>Date of receipt of test item</b>	Sep. 05, 2022
<b>Date of Test</b>	Sep. 20, 2022 – Nov. 02, 2022
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BGN/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By	 <hr/> Bibo Zhang (Project Engineer)	Nov. 02, 2022
Reviewed By	 <hr/> Calvin Liu (Reviewer)	Nov. 02, 2022
Approved By	 <hr/> Max Zhang (Authorized Officer)	Nov. 02, 2022

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as “Video Doorbell”. It is designed by way of utilizing the OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Equipment Type</b>	<input type="checkbox"/> Outdoor access points <input type="checkbox"/> Indoor access points <input type="checkbox"/> Fixed P2P access points <input checked="" type="checkbox"/> Client devices
<b>Operation Frequency</b>	<input checked="" type="checkbox"/> U-NII 1:5150MHz~5250MHz <input checked="" type="checkbox"/> U-NII 2A: 5250MHz~5350MHz <input checked="" type="checkbox"/> U-NII 2C:5470MHz~5725MHz <input checked="" type="checkbox"/> U-NII 3: 5725MHz~5850MHz
<b>DFS Design Type</b>	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection
<b>TPC Function</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Test Frequency Range:</b>	For 802.11a/n/ac-HT20-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz For 802.11n/ac-HT40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz,5755~5795MHz For 802.11ac-HT80: 5210MHz, 5290MHz, 5530MHz, 5610MHz,5775MHz
<b>Output Power</b>	IEEE 802.11a:13.07dBm; IEEE 802.11n-HT20:12.91dBm; IEEE 802.11n-HT40:12.60dBm; IEEE 802.11ac-VHT20:12.14Bm; IEEE 802.11ac-VHT40:11.43dBm; IEEE 802.11ac-VHT80:10.41dBm
<b>Output Power_MIMO</b>	IEEE 802.11n(20):15.70dBm;IEEE802.11n(40):15.18dBm IEEE 802.11ac(20):14.95dBm; IEEE802.11ac(40):14.07dBm; IEEE802.11ac(80):13.16dBm
<b>Modulation</b>	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM,128QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM,128QAM,256QAM)
<b>Data Rate</b>	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 400Mbps
<b>Number of channels</b>	7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 21 channels of U-NII-2C Band 8 channels of U-NII-3 Band
<b>Hardware Version</b>	PWR25 V120,N66C03 V110
<b>Software Version</b>	V1.0
<b>Antenna Designation</b>	Refer to section 2.8 of the report (Comply with requirements of the FCC part 15.203)
<b>Number of transmit chain</b>	2(802.a/11n/ac all used four antennas, but 802.11a support SISO and 802.11n/ac support MIMO)
<b>Antenna Gain</b>	Refer to Chapter 2.8 of the report.
<b>Power Supply</b>	DC 24V

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## 2.2. TABLE OF CARRIER FREQUENCIES

For 5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	--	--

For 5260~5320MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
58	5290 MHz	--	--

**For 5500~5720MHz:**

**12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):**

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

**6 channels are provided for 802.11n (HT40), 802.11ac (VHT40):**

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

**3 channel is provided for 802.11ac (VHT80):**

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz
138	5690 MHz	--	--

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For 5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz	--	--

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
155	5775 MHz	--	--

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### 2.3. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AYHE-2205B** filing to comply with the FCC Part 15 requirements.

### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013).

Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

### 2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

## 2.8 DESCRIPTION OF AVAILABLE ANTENNAS

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 1	Ant 2	
5G WIFI FPC Antenna List (5GHz 2*2 MIMO)						
FPC Antenna	5150~5850	2	20	4	4	7.01

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ac mode.

If all antennas have the same gain, GANT, Directional gain = GANT + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on devices:  
Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB = 3.01;
- For power measurements on IEEE 802.11 devices:  
Array Gain = 0 dB for  $N_{ANT} \leq 4$ ;  
Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;  
Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less, for 20 MHz channel widths with  $N_{ANT} \geq 5$ .

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1$ dB
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0$ dB
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8$ dB
Uncertainty of total RF power, conducted	$U_c = \pm 0.8$ dB
Uncertainty of RF power density, conducted	$U_c = \pm 2.6$ dB
Uncertainty of spurious emissions, conducted	$U_c = \pm 2$ %
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2$ %

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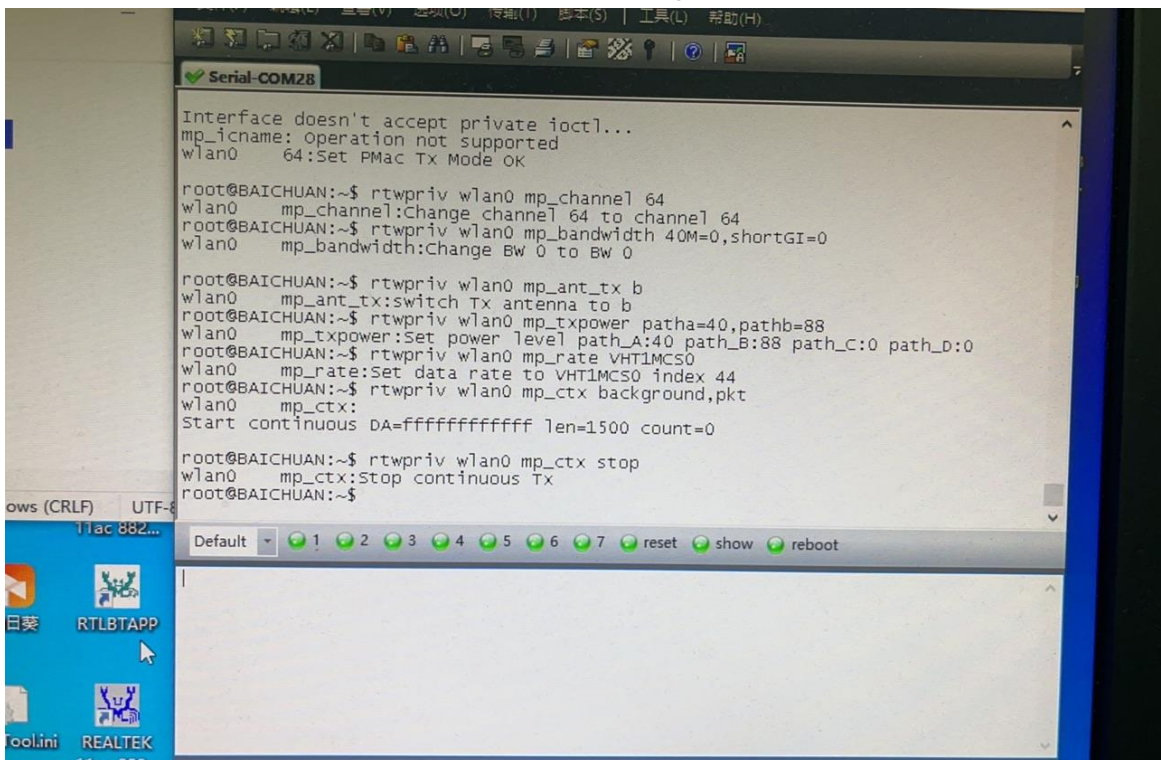
#### 4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate(Mbps)
802.11a/n/ac20	36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165	36, 40, 48, 52, 60, 64, 100, 120, 140, 149, 157, 165	OFDM	6Mbps/MCS0
802.11n/ac40	38, 46, 54, 62, 102, 110, 118, 126, 134, 151, 159;	38, 46, 54, 62, 102, 118, 134, 151, 159	OFDM	MCS0
802.11ac80	42, 58, 106, 122, 155	42, 58, 106, 122, 155	OFDM	MCS0

**Note:**

1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%.
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. All radiated spurious emission and conducted interference modes have been pre scanned, and the report only records that antenna 1+ antenna 2 work in the worst mode.

#### Software Setting

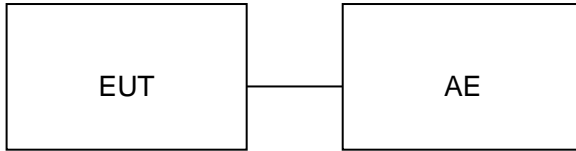


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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Video Doorbell	Reolink Video Doorbell WiFi	2AYHE-2205B	EUT
2	Adapter	DCT12W240050US-B0	INPUT:100-240V, 50/60Hz, 0.3A OUTPUT:24V, 0.5A	AE

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407	6dB Bandwidth	Compliant
§15.407	Emission Bandwidth	Compliant
§15.407	Maximum conducted output power	Compliant
§15.407	Conducted Spurious Emission	Compliant
§15.407	Maximum Conducted Output Power Density	Compliant
§15.209	Radiated Emission	Compliant
§15.407	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Mar. 28, 2022	Mar. 27, 2023
LISN	R&S	ESH2-Z5	100086	Jun. 08, 2022	Jun. 07, 2023
Test software	R&S	ES-K1	Ver.V1.71	N/A	N/A

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
EXA Signal Analyzer	KEYSIGHT	N9020B	MY56101792	Aug. 04, 2022	Aug. 03, 2023
Power sensor	Aglient	U2021XA	MY54110007	Mar. 04, 2022	Mar. 03, 2023
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	N/A	N/A
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 21, 2024
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Aug. 04, 2022	Aug. 03, 2024
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2020	Jan. 07, 2023
Test software	Tonscend	EZ-EMC	Ver.RA-03A	N/A	N/A

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## 7. MAXIMUM CONDUCTED OUTPUT POWER

### 7.1. MEASUREMENT PROCEDURE

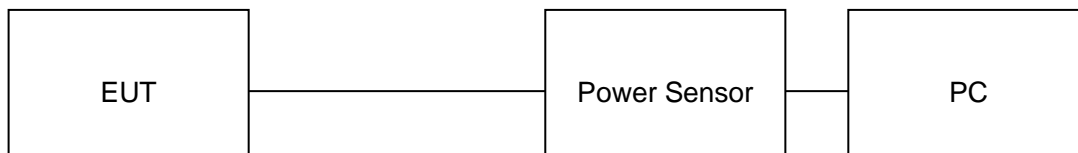
For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

**Note :** The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

### 7.2. TEST SET-UP

#### AVERAGE POWER SETUP



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### 7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power for band 5.15-5.25 GHz-antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	13.07	24	Pass
	5200	11.26	24	Pass
	5240	10.37	24	Pass
802.11n20	5180	12.89	24	Pass
	5200	11.69	24	Pass
	5240	10.87	24	Pass
802.11n40	5190	11.87	24	Pass
	5230	10.81	24	Pass
802.11ac20	5180	11.49	24	Pass
	5200	10.68	24	Pass
	5240	9.76	24	Pass
802.11ac40	5190	11.01	24	Pass
	5230	9.77	24	Pass
802.11ac80	5210	10.12	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	13.05	24	Pass
	5200	12.49	24	Pass
	5240	10.90	24	Pass
802.11n20	5180	12.48	24	Pass
	5200	11.75	24	Pass
	5240	10.26	24	Pass
802.11n40	5190	11.85	24	Pass
	5230	10.26	24	Pass
802.11ac20	5180	11.37	24	Pass
	5200	10.66	24	Pass
	5240	9.13	24	Pass
802.11ac40	5190	10.85	24	Pass
	5230	9.25	24	Pass
802.11ac80	5210	9.81	24	Pass

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Test Data of Conducted Output Power for band 5.15-5.25 GHz-antenna MIMO				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5180	15.70	24	Pass
	5200	14.73	24	Pass
	5240	13.59	24	Pass
802.11n40	5190	14.87	24	Pass
	5230	13.55	24	Pass
802.11ac20	5180	14.44	24	Pass
	5200	13.68	24	Pass
	5240	12.47	24	Pass
802.11ac40	5190	13.94	24	Pass
	5230	12.53	24	Pass
802.11ac80	5210	12.98	24	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz-antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	12.50	24	Pass
	5300	12.93	24	Pass
	5320	13.02	24	Pass
802.11n20	5260	12.00	24	Pass
	5300	12.70	24	Pass
	5320	12.91	24	Pass
802.11n40	5270	11.92	24	Pass
	5310	12.60	24	Pass
802.11ac20	5260	11.24	24	Pass
	5300	11.95	24	Pass
	5320	12.14	24	Pass
802.11ac40	5270	10.78	24	Pass
	5310	11.43	24	Pass
802.11ac80	5290	10.41	24	Pass

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Test Data of Conducted Output Power for band 5.25-5.35 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	12.11	24	Pass
	5300	12.11	24	Pass
	5320	11.92	24	Pass
802.11n20	5260	12.05	24	Pass
	5300	12.08	24	Pass
	5320	11.86	24	Pass
802.11n40	5270	11.78	24	Pass
	5310	11.70	24	Pass
802.11ac20	5260	11.32	24	Pass
	5300	11.34	24	Pass
	5320	11.21	24	Pass
802.11ac40	5270	10.60	24	Pass
	5310	10.66	24	Pass
802.11ac80	5290	9.87	24	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz- MIMO				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5260	15.04	24	Pass
	5300	15.41	24	Pass
	5320	15.43	24	Pass
802.11n40	5270	14.86	24	Pass
	5310	15.18	24	Pass
802.11ac20	5260	14.29	24	Pass
	5300	14.67	24	Pass
	5320	14.71	24	Pass
802.11ac40	5270	13.70	24	Pass
	5310	14.07	24	Pass
802.11ac80	5290	13.16	24	Pass

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Test Data of Conducted Output Power for band 5.47-5.725 GHz-antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5500	11.12	24	Pass
	5600	12.27	24	Pass
	5700	12.80	24	Pass
802.11n20	5500	11.05	24	Pass
	5600	12.27	24	Pass
	5700	12.70	24	Pass
802.11n40	5510	10.43	24	Pass
	5590	10.90	24	Pass
	5670	11.79	24	Pass
802.11ac20	5500	10.24	24	Pass
	5600	11.41	24	Pass
	5700	12.07	24	Pass
802.11ac40	5510	9.93	24	Pass
	5590	10.35	24	Pass
	5670	11.29	24	Pass
802.11ac80	5530	9.50	24	Pass
	5610	10.06	24	Pass

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Test Data of Conducted Output Power for band 5.47-5.725 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5500	11.46	24	Pass
	5600	12.20	24	Pass
	5700	12.60	24	Pass
802.11n20	5500	11.44	24	Pass
	5600	12.13	24	Pass
	5700	12.65	24	Pass
802.11n40	5510	11.05	24	Pass
	5590	11.02	24	Pass
	5670	11.33	24	Pass
802.11ac20	5500	10.73	24	Pass
	5600	11.49	24	Pass
	5700	11.81	24	Pass
802.11ac40	5510	10.44	24	Pass
	5590	10.18	24	Pass
	5670	9.14	24	Pass
802.11ac80	5530	9.72	24	Pass
	5610	8.16	24	Pass

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Test Data of Conducted Output Power for band 5.47-5.725 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5500	14.26	24	Pass
	5600	15.21	24	Pass
	5700	15.69	24	Pass
802.11n40	5510	13.76	24	Pass
	5590	13.97	24	Pass
	5670	14.58	24	Pass
802.11ac20	5500	13.50	24	Pass
	5600	14.46	24	Pass
	5700	14.95	24	Pass
802.11ac40	5510	13.20	24	Pass
	5590	13.28	24	Pass
	5670	13.36	24	Pass
802.11ac80	5530	12.62	24	Pass
	5610	12.22	24	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz-antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	10.95	30	Pass
	5785	10.06	30	Pass
	5825	10.28	30	Pass
802.11n20	5745	11.00	30	Pass
	5785	10.07	30	Pass
	5825	10.30	30	Pass
802.11n40	5755	10.71	30	Pass
	5795	9.74	30	Pass
802.11ac20	5745	10.26	30	Pass
	5785	9.42	30	Pass
	5825	9.67	30	Pass
802.11ac40	5755	10.06	30	Pass
	5795	9.15	30	Pass
802.11ac80	5775	8.93	30	Pass

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Test Data of Conducted Output Power for band 5.725-5.85 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	10.70	30	Pass
	5785	9.66	30	Pass
	5825	9.51	30	Pass
802.11n20	5745	10.60	30	Pass
	5785	9.46	30	Pass
	5825	9.43	30	Pass
802.11n40	5755	10.29	30	Pass
	5795	9.02	30	Pass
802.11ac20	5745	10.09	30	Pass
	5785	9.01	30	Pass
	5825	8.96	30	Pass
802.11ac40	5755	9.91	30	Pass
	5795	8.65	30	Pass
802.11ac80	5775	9.59	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5745	13.81	30	Pass
	5785	12.79	30	Pass
	5825	12.90	30	Pass
802.11n40	5755	13.52	30	Pass
	5795	12.41	30	Pass
802.11ac20	5745	13.19	30	Pass
	5785	12.23	30	Pass
	5825	12.34	30	Pass
802.11ac40	5755	13.00	30	Pass
	5795	11.92	30	Pass
802.11ac80	5775	12.28	30	Pass

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## 8. BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

-6dB bandwidth (DTS bandwidth):

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 100kHz.
4. Set the VBW  $\geq 3 \times$  RBW. Detector = Peak. Trace mode = max hold.
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

99% occupied bandwidth:

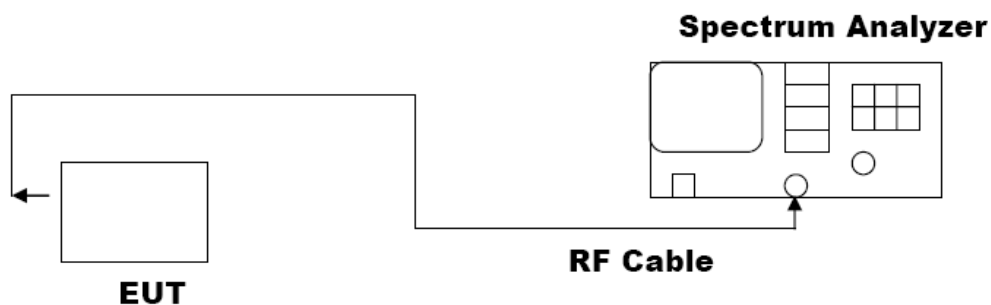
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel  
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

-26dB Bandwidth:

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW  $>$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.  
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

**Note:** The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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### 8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz-antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.315	18.35	N/A	Pass
	5200	16.307	18.37	N/A	Pass
	5240	16.315	18.29	N/A	Pass
802.11n20	5180	17.505	19.35	N/A	Pass
	5200	17.499	19.39	N/A	Pass
	5240	17.512	19.37	N/A	Pass
802.11n40	5190	36.151	41.26	N/A	Pass
	5230	36.128	41.32	N/A	Pass
802.11ac20	5180	17.512	19.31	N/A	Pass
	5200	17.511	19.32	N/A	Pass
	5240	17.509	19.27	N/A	Pass
802.11ac40	5190	36.048	40.83	N/A	Pass
	5230	36.083	41.02	N/A	Pass
802.11ac80	5210	74.867	80.54	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz-antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.307	18.33	N/A	Pass
	5200	16.307	18.28	N/A	Pass
	5240	16.317	18.34	N/A	Pass
802.11n20	5180	17.492	19.28	N/A	Pass
	5200	17.493	19.35	N/A	Pass
	5240	17.499	19.40	N/A	Pass
802.11n40	5190	36.065	40.95	N/A	Pass
	5230	36.120	40.92	N/A	Pass
802.11ac20	5180	17.497	19.31	N/A	Pass
	5200	17.507	19.27	N/A	Pass
	5240	17.503	19.32	N/A	Pass
802.11ac40	5190	36.002	40.62	N/A	Pass
	5230	36.037	40.63	N/A	Pass
802.11ac80	5210	74.576	80.37	N/A	Pass

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Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz-antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.319	18.38	N/A	Pass
	5300	16.315	18.36	N/A	Pass
	5320	16.311	18.36	N/A	Pass
802.11n20	5260	17.510	19.36	N/A	Pass
	5300	17.505	19.35	N/A	Pass
	5320	17.499	19.36	N/A	Pass
802.11n40	5270	36.108	41.33	N/A	Pass
	5310	36.124	40.93	N/A	Pass
802.11ac20	5260	17.513	19.28	N/A	Pass
	5300	17.506	19.35	N/A	Pass
	5320	17.503	19.30	N/A	Pass
802.11ac40	5270	36.049	41.10	N/A	Pass
	5310	36.038	40.88	N/A	Pass
802.11ac80	5290	74.675	80.68	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz-antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.331	18.31	N/A	Pass
	5300	16.326	18.39	N/A	Pass
	5320	16.320	18.35	N/A	Pass
802.11n20	5260	17.519	19.32	N/A	Pass
	5300	17.505	19.39	N/A	Pass
	5320	17.504	19.30	N/A	Pass
802.11n40	5270	36.073	41.10	N/A	Pass
	5310	36.093	41.08	N/A	Pass
802.11ac20	5260	17.514	19.38	N/A	Pass
	5300	17.504	19.29	N/A	Pass
	5320	17.508	19.35	N/A	Pass
802.11ac40	5270	36.055	40.40	N/A	Pass
	5310	36.053	40.58	N/A	Pass
802.11ac80	5290	74.581	80.65	N/A	Pass

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Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz-antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.314	18.39	N/A	Pass
	5600	16.313	18.34	N/A	Pass
	5700	16.317	18.32	N/A	Pass
802.11n20	5500	17.503	19.33	N/A	Pass
	5600	17.501	19.37	N/A	Pass
	5700	17.506	19.27	N/A	Pass
802.11n40	5510	36.098	40.70	N/A	Pass
	5590	36.138	41.01	N/A	Pass
	5670	36.119	41.09	N/A	Pass
802.11ac20	5500	17.503	19.24	N/A	Pass
	5600	17.513	19.36	N/A	Pass
	5700	17.500	19.35	N/A	Pass
802.11ac40	5510	36.037	40.72	N/A	Pass
	5590	36.056	40.88	N/A	Pass
	5670	36.046	40.92	N/A	Pass
802.11ac80	5530	74.561	80.41	N/A	Pass
	5610	74.790	80.86	N/A	Pass

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Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz-antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.312	18.33	N/A	Pass
	5600	16.319	18.38	N/A	Pass
	5700	16.315	18.31	N/A	Pass
802.11n20	5500	17.505	19.36	N/A	Pass
	5600	17.506	19.39	N/A	Pass
	5700	17.498	19.38	N/A	Pass
802.11n40	5510	36.113	40.96	N/A	Pass
	5590	36.097	41.32	N/A	Pass
	5670	36.129	40.96	N/A	Pass
802.11ac20	5500	17.503	19.34	N/A	Pass
	5600	17.505	19.30	N/A	Pass
	5700	17.504	19.25	N/A	Pass
802.11ac40	5510	36.041	40.84	N/A	Pass
	5590	36.072	40.84	N/A	Pass
	5670	36.081	40.85	N/A	Pass
802.11ac80	5530	74.595	80.69	N/A	Pass
	5610	74.702	80.60	N/A	Pass

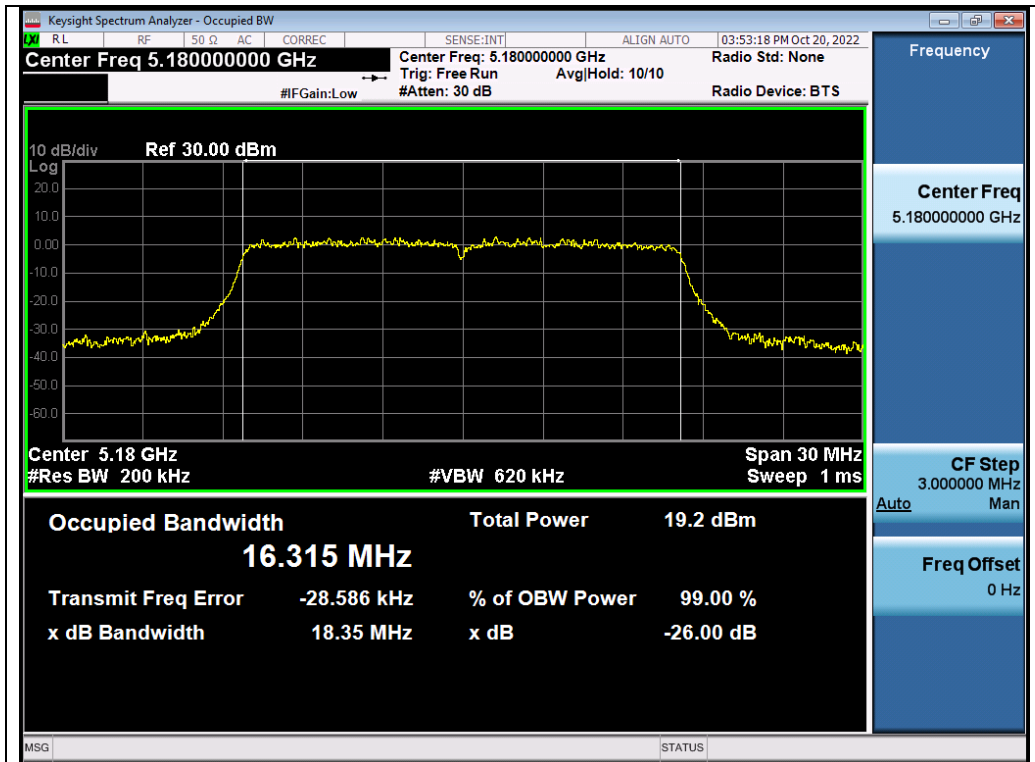
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Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.321	16.32	0.5	Pass
	5785	16.315	16.35	0.5	Pass
	5825	16.316	16.34	0.5	Pass
802.11n20	5745	17.496	17.55	0.5	Pass
	5785	17.507	17.55	0.5	Pass
	5825	17.498	17.58	0.5	Pass
802.11n40	5755	36.075	35.48	0.5	Pass
	5795	36.152	35.14	0.5	Pass
802.11ac20	5745	17.495	17.56	0.5	Pass
	5785	17.506	17.57	0.5	Pass
	5825	17.504	17.56	0.5	Pass
802.11ac40	5755	36.043	35.17	0.5	Pass
	5795	36.079	35.16	0.5	Pass
802.11ac80	5775	74.835	75.08	0.5	Pass

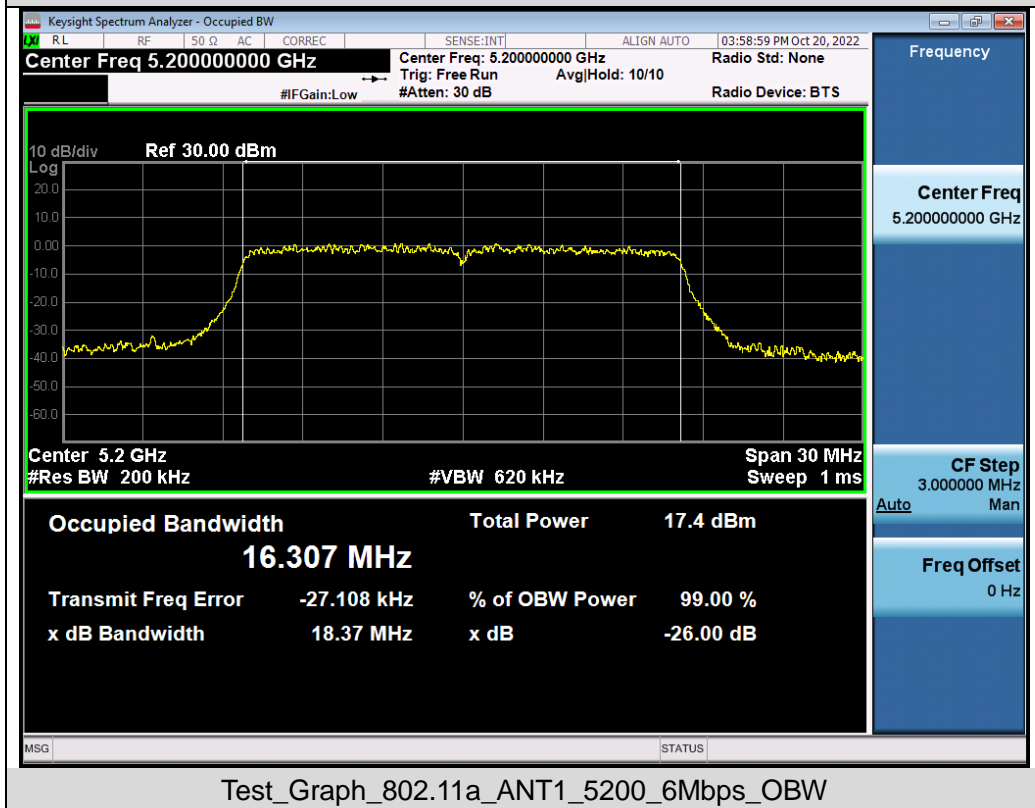
Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.317	16.34	0.5	Pass
	5785	16.313	16.33	0.5	Pass
	5825	16.317	16.34	0.5	Pass
802.11n20	5745	17.502	17.55	0.5	Pass
	5785	17.502	17.55	0.5	Pass
	5825	17.508	17.57	0.5	Pass
802.11n40	5755	36.084	35.17	0.5	Pass
	5795	36.117	35.43	0.5	Pass
802.11ac20	5745	17.506	17.54	0.5	Pass
	5785	17.509	17.55	0.5	Pass
	5825	17.509	17.55	0.5	Pass
802.11ac40	5755	36.069	35.13	0.5	Pass
	5795	36.071	35.17	0.5	Pass
802.11ac80	5775	74.771	75.08	0.5	Pass

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**Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz**

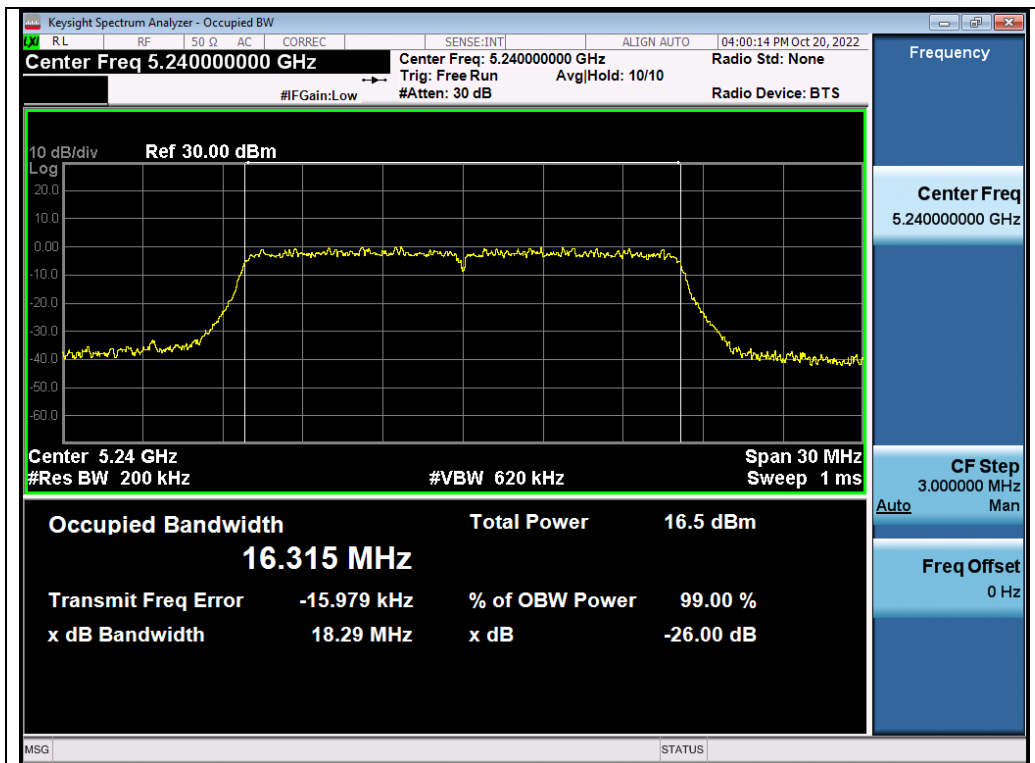


Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_OBW

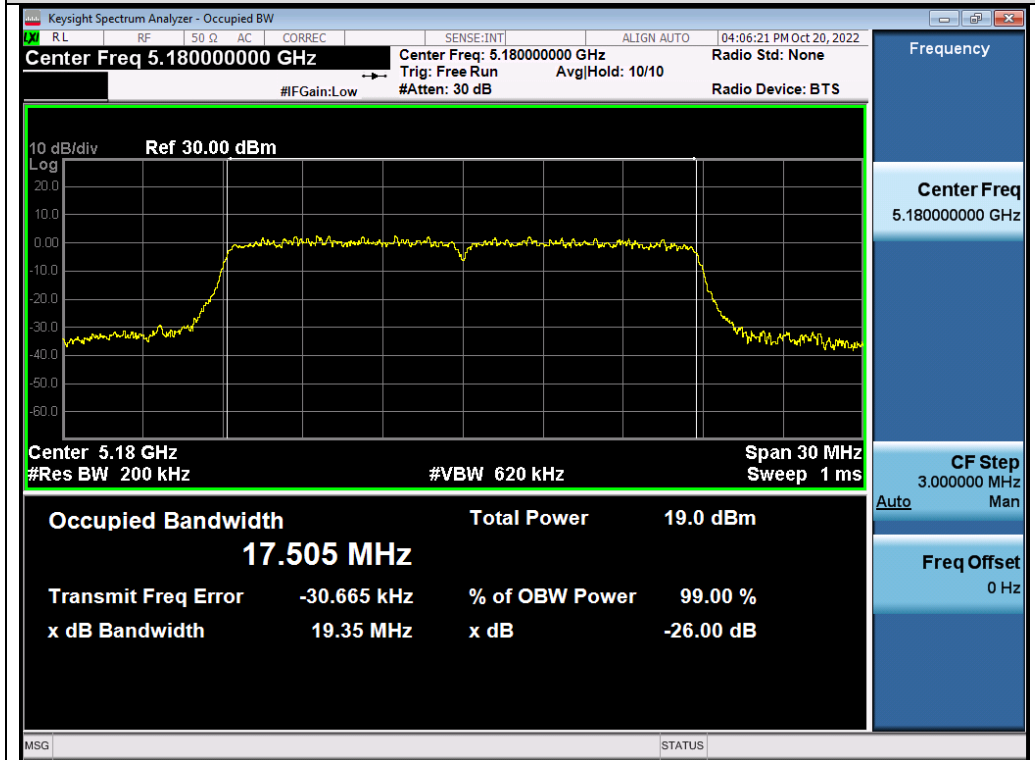


Test\_Graph\_802.11a\_ANT1\_5200\_6Mbps\_OBW

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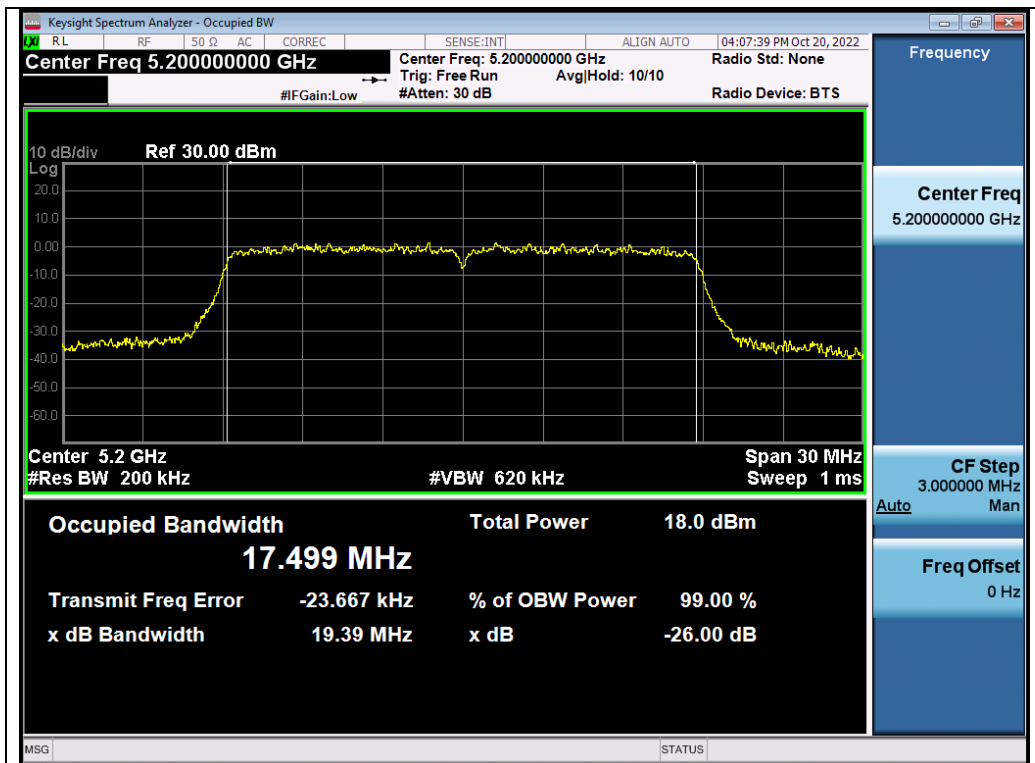


Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_OBW

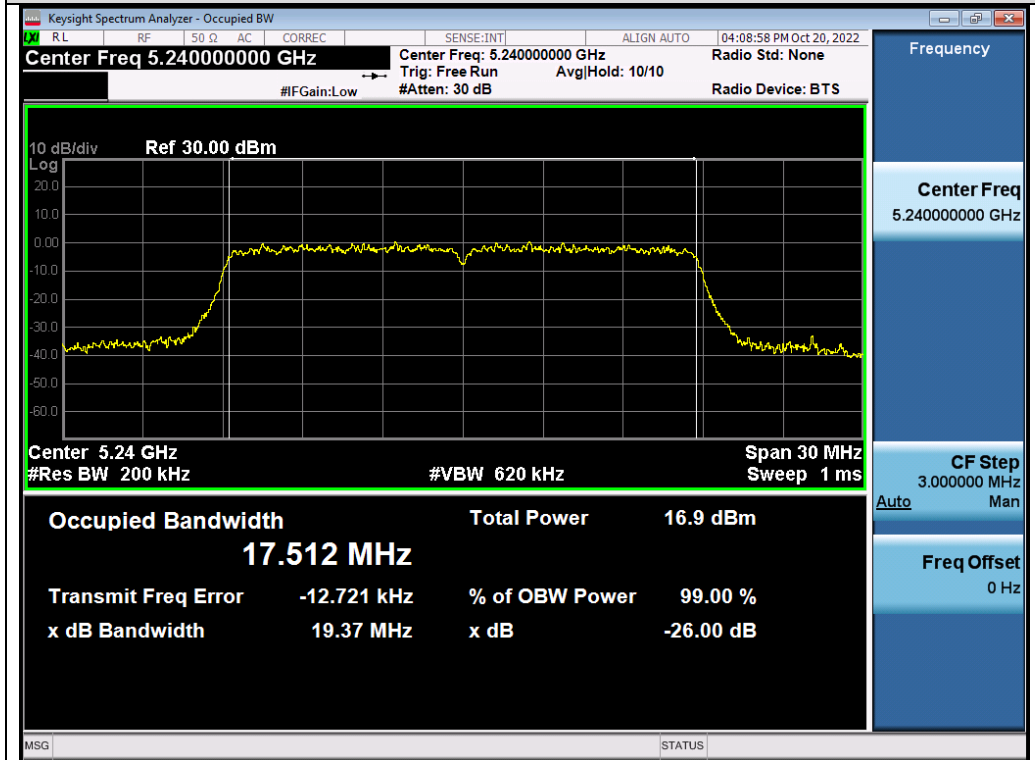


Test\_Graph\_802.11n20\_ANT1\_5180\_MCS0\_OBW

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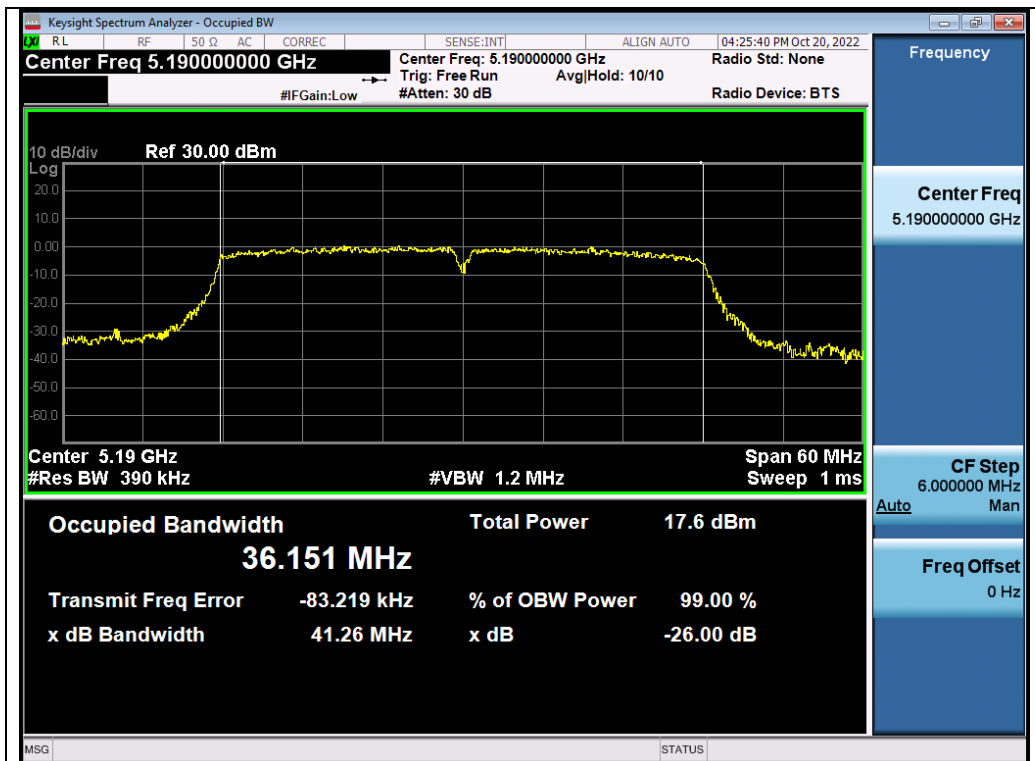
Test\_Graph\_802.11n20\_ANT1\_5200\_MCS0\_OBW



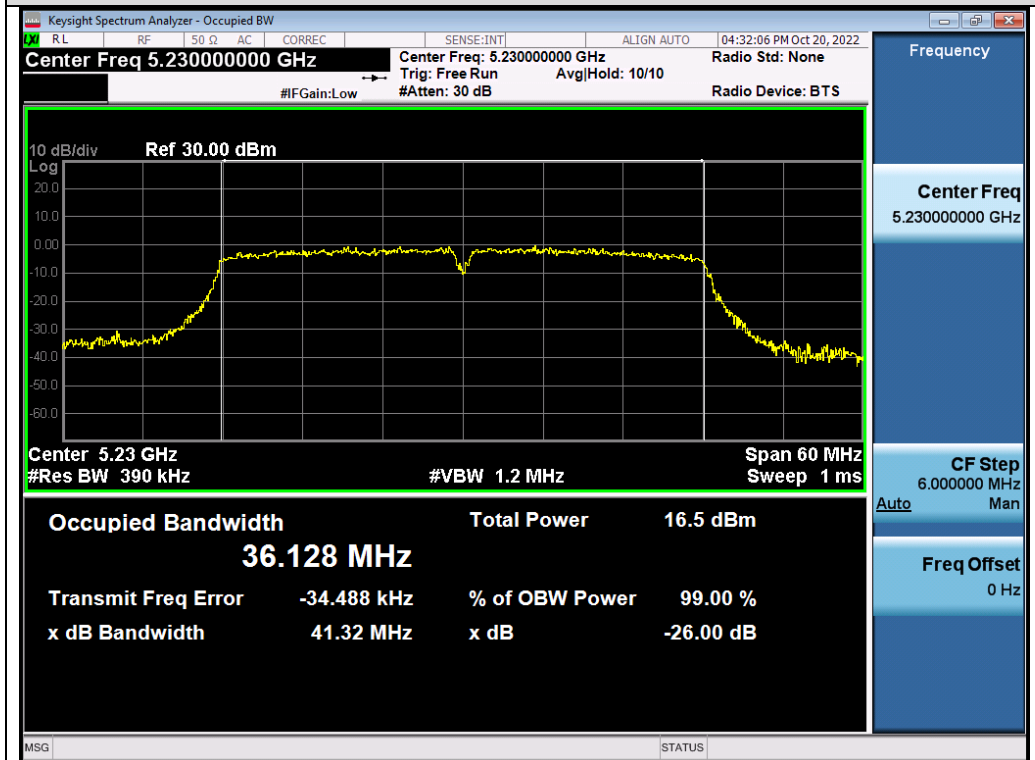
Test\_Graph\_802.11n20\_ANT1\_5240\_MCS0\_OBW

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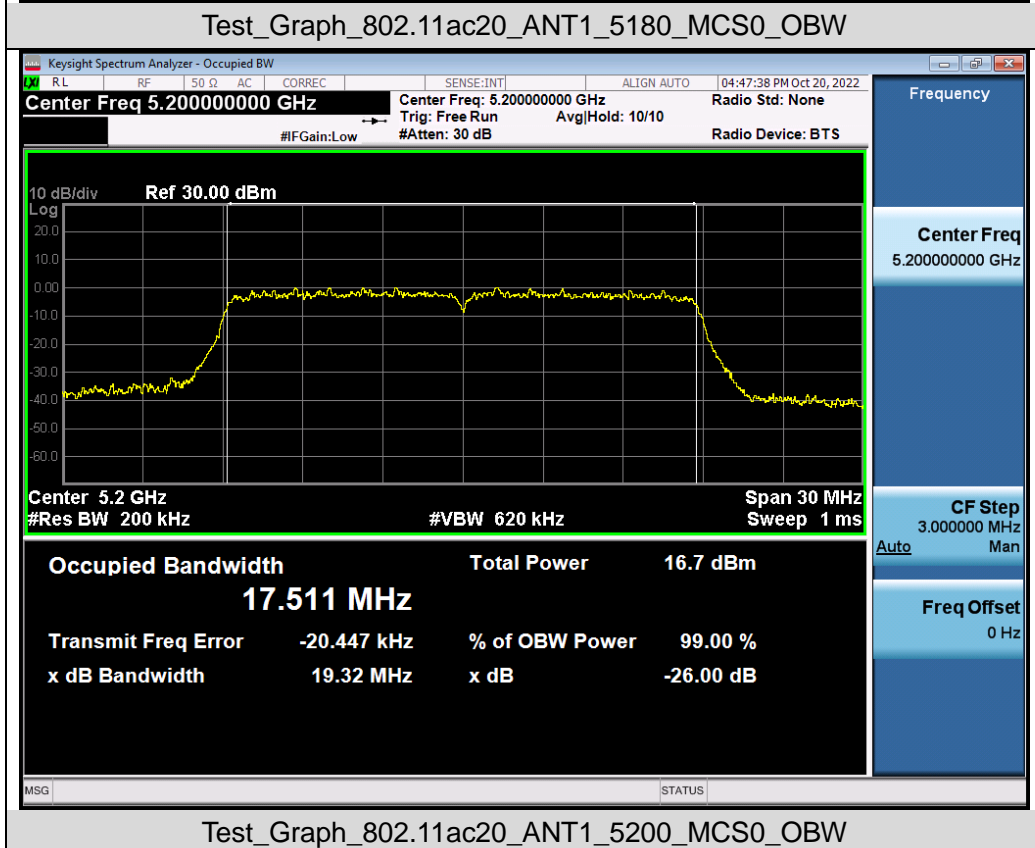
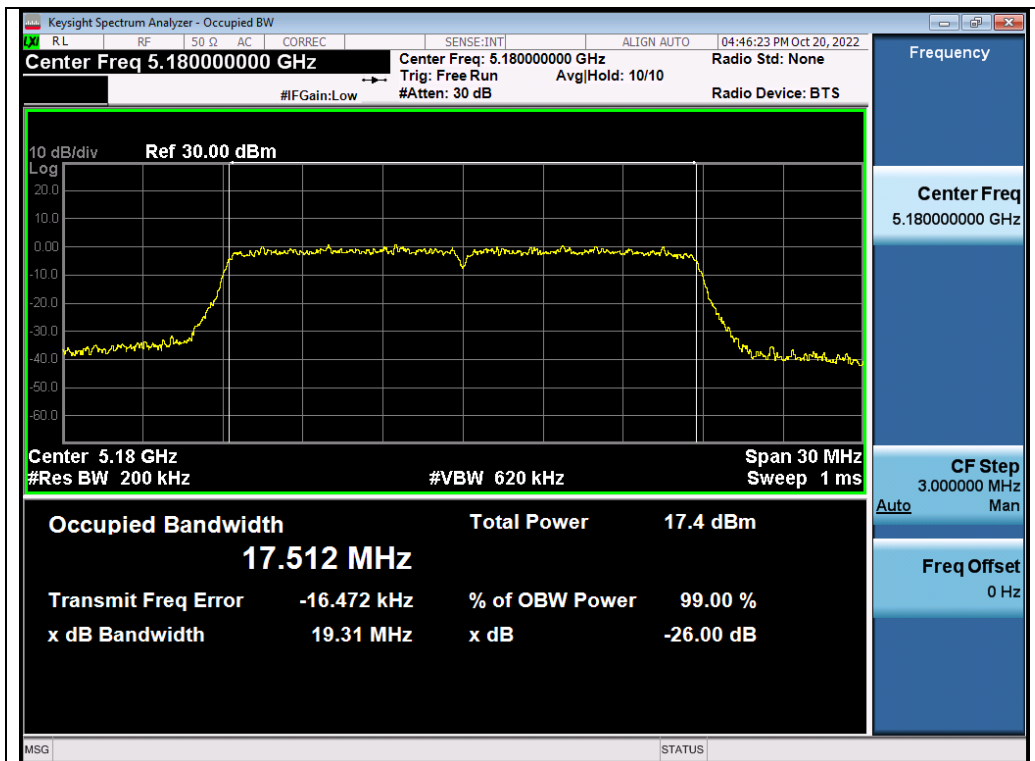


Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_OBW

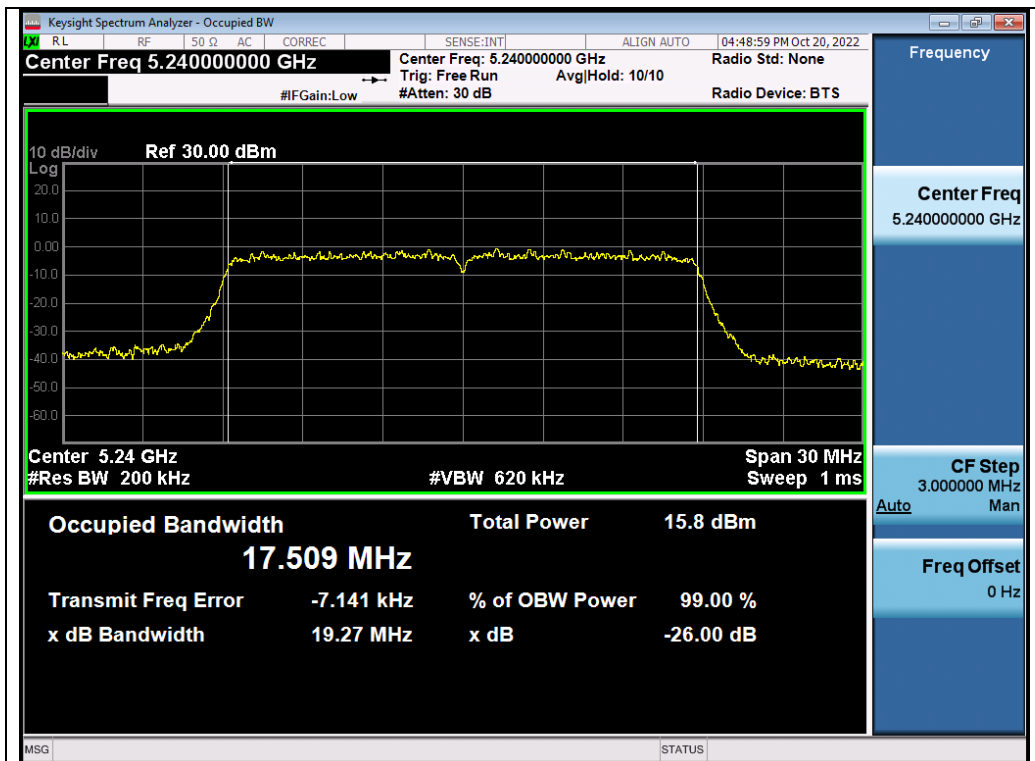


Test\_Graph\_802.11n40\_ANT1\_5230\_MCS0\_OBW

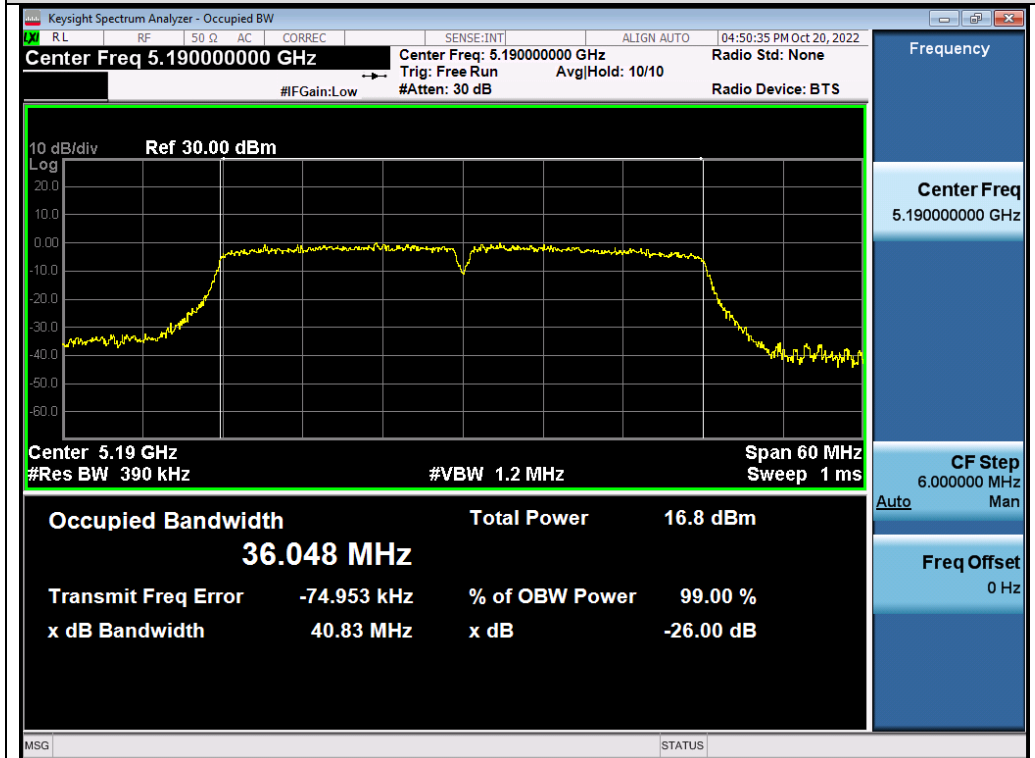
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



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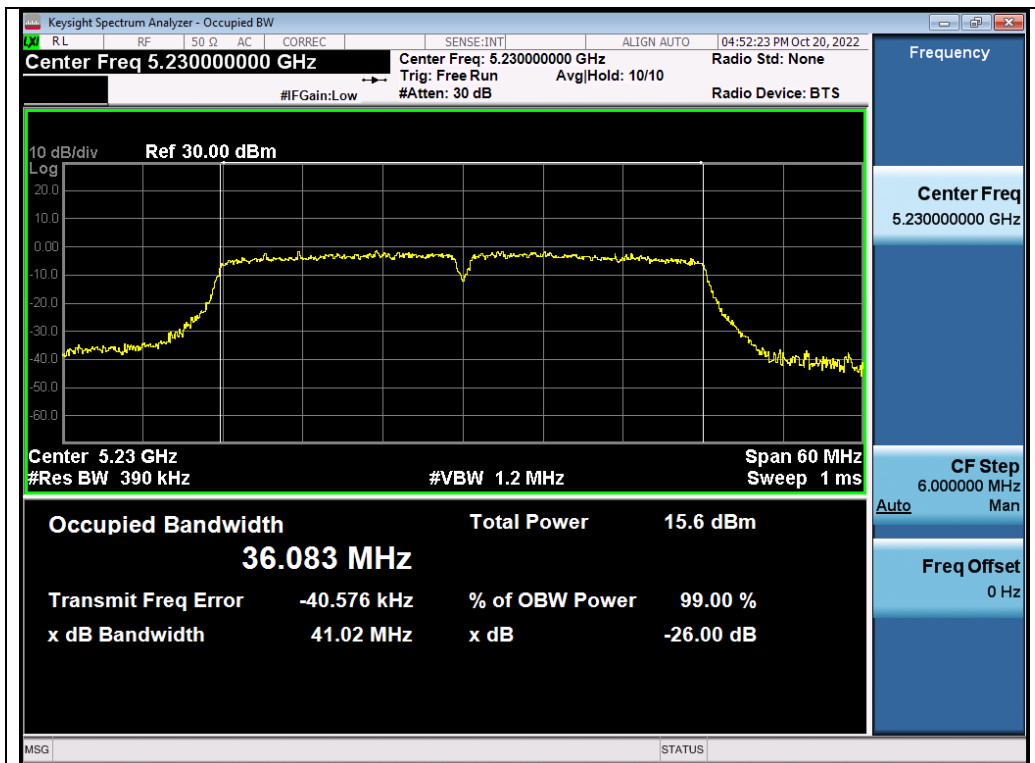


Test\_Graph\_802.11ac20\_ANT1\_5240\_MCS9\_OBW

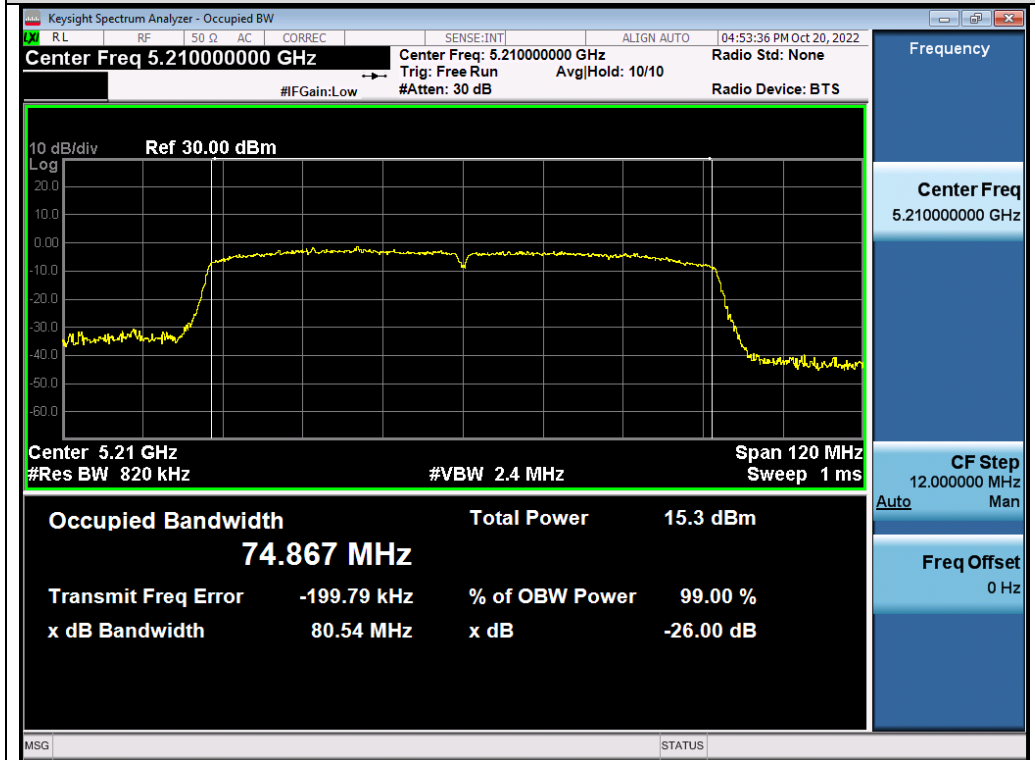


Test\_Graph\_802.11ac40\_ANT1\_5190\_MCS9\_OBW

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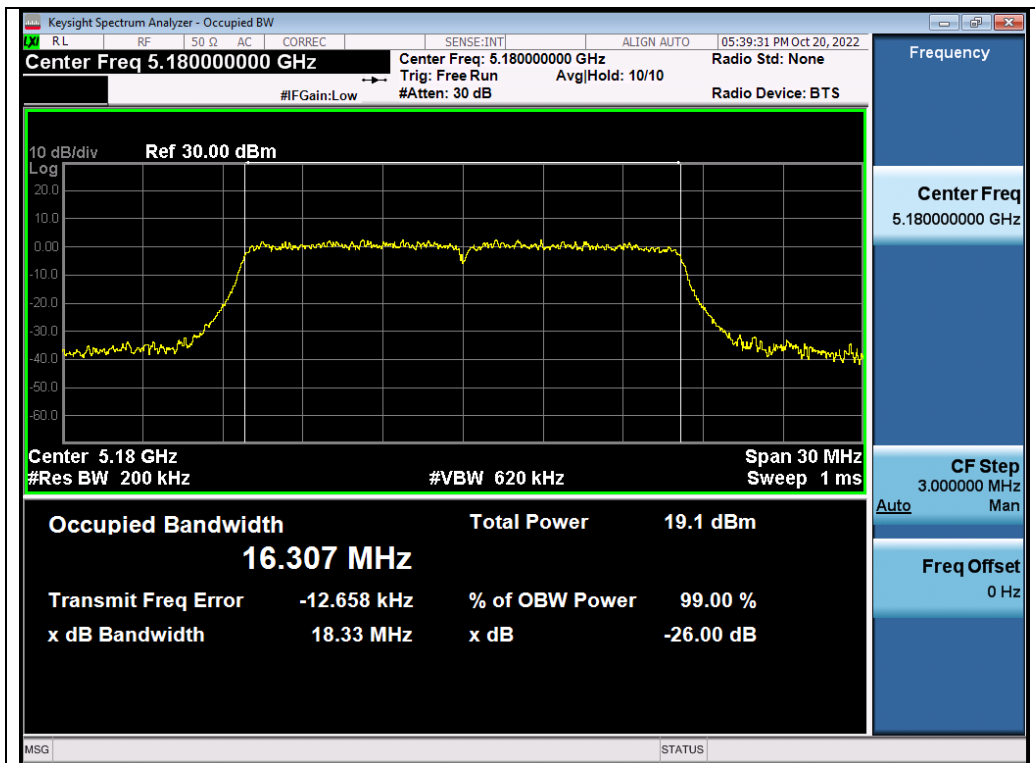


Test\_Graph\_802.11ac40\_ANT1\_5230\_MCS9\_OBW

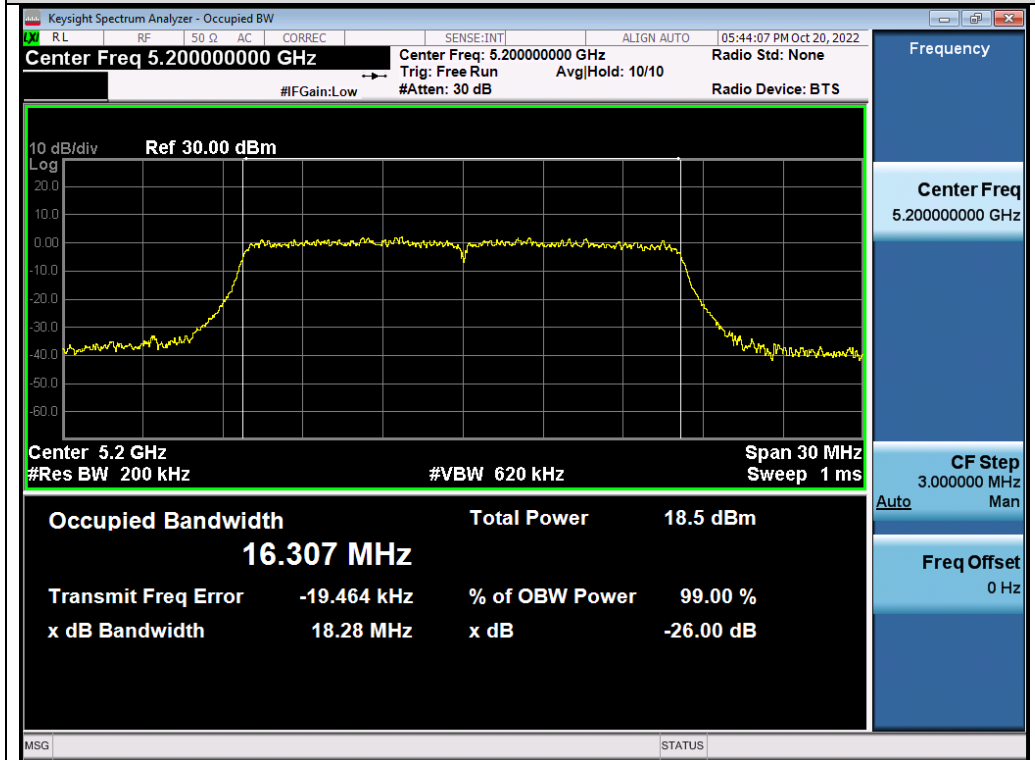


Test\_Graph\_802.11ac80\_ANT1\_5210\_MCS9\_OBW

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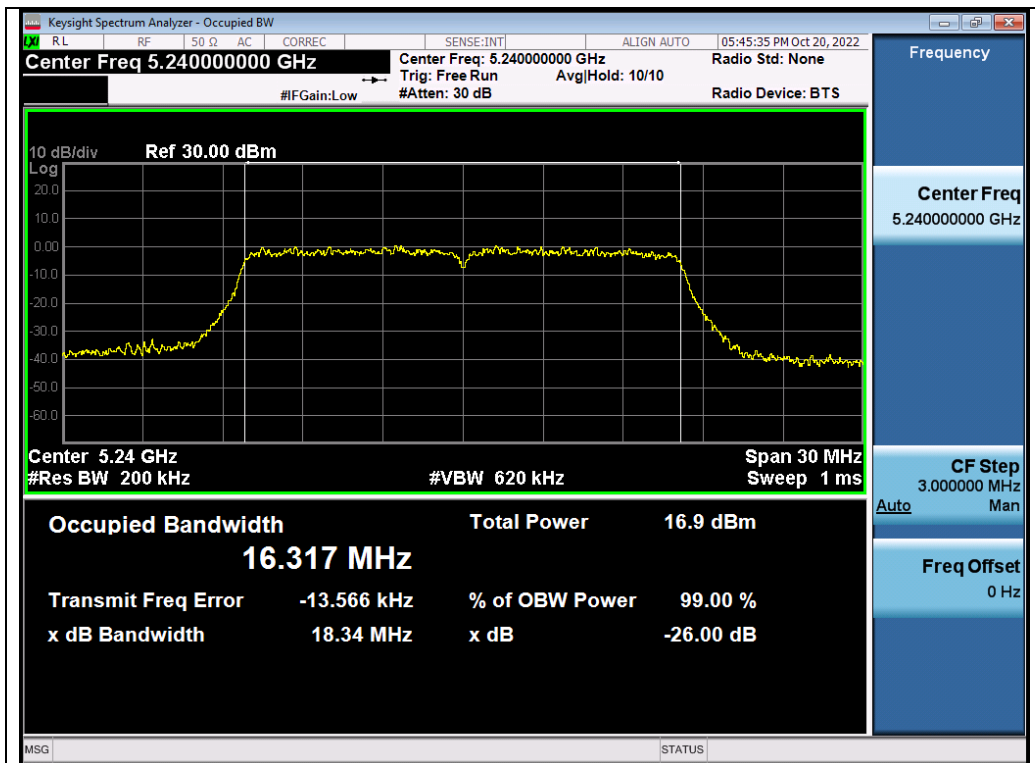


Test\_Graph\_802.11a\_ANT2\_5180\_6Mbps\_OBW

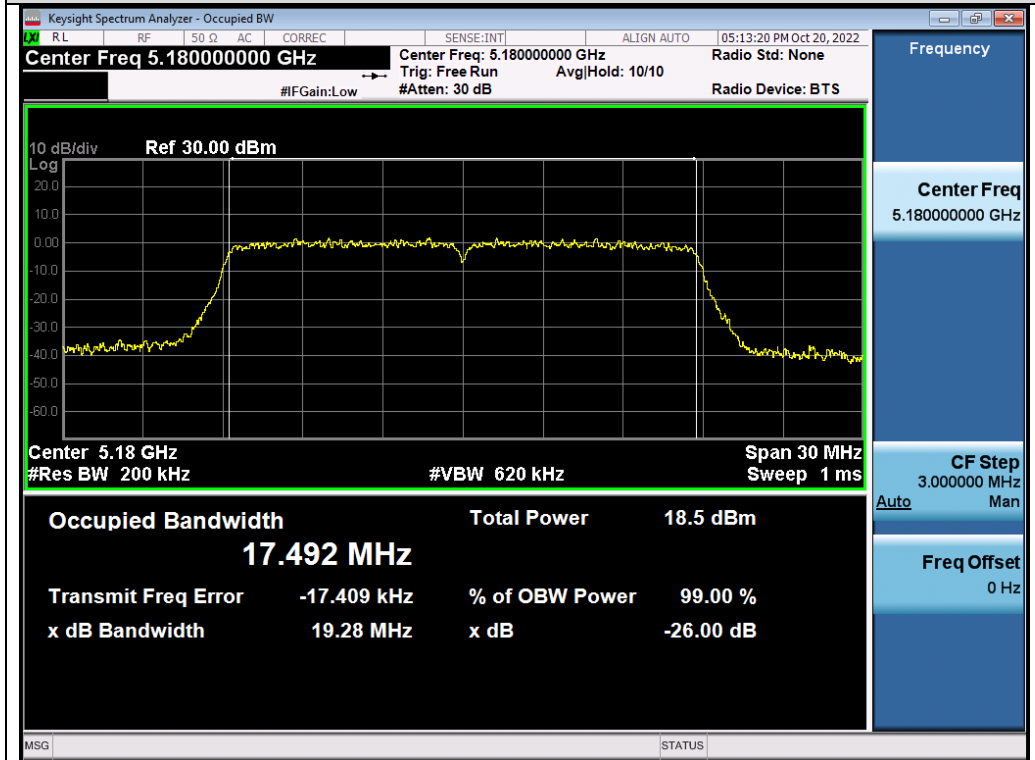


Test\_Graph\_802.11a\_ANT2\_5200\_6Mbps\_OBW

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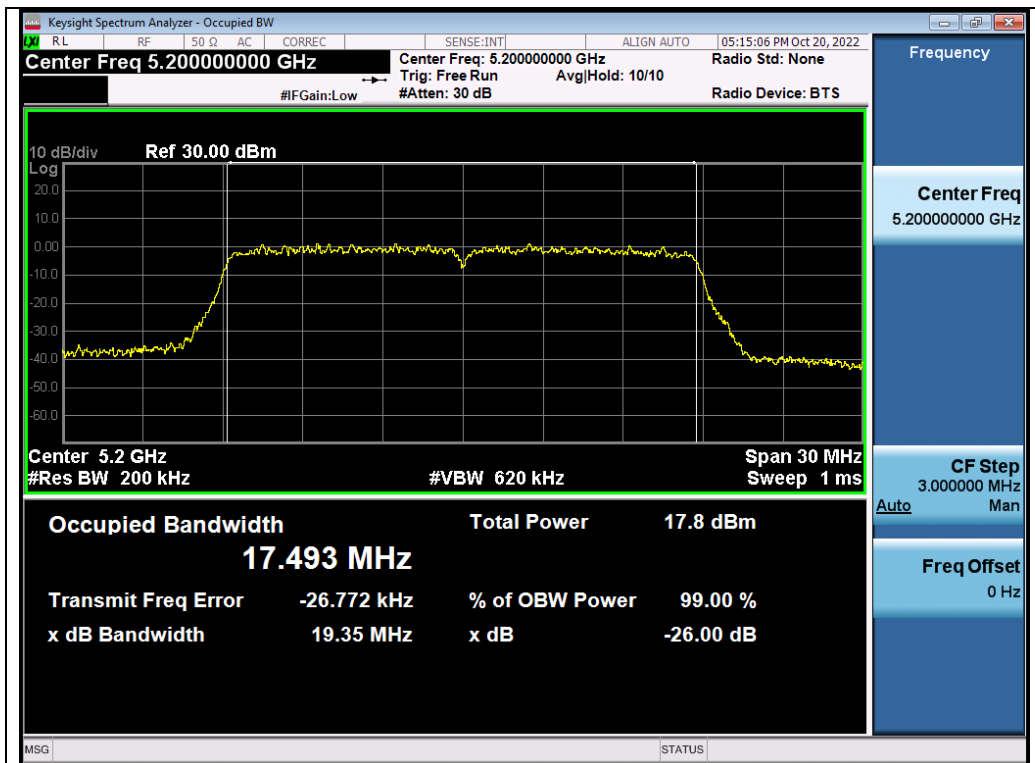


Test\_Graph\_802.11a\_ANT2\_5240\_6Mbps\_OBW

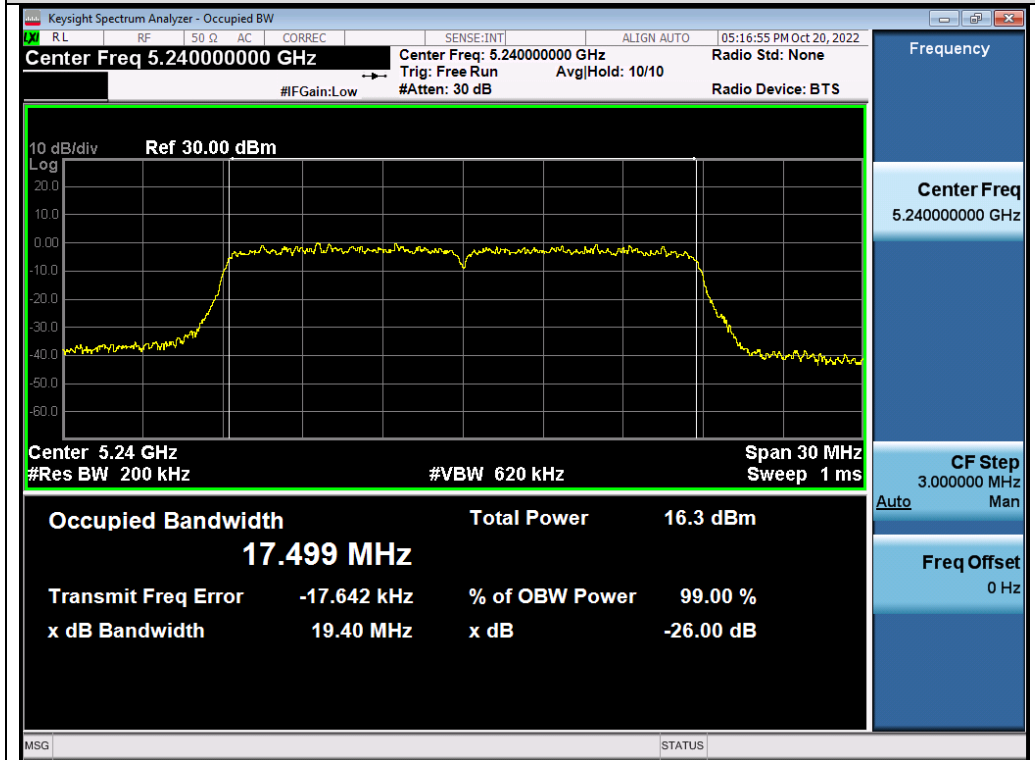


Test\_Graph\_802.11n20\_ANT2\_5180\_MCS0\_OBW

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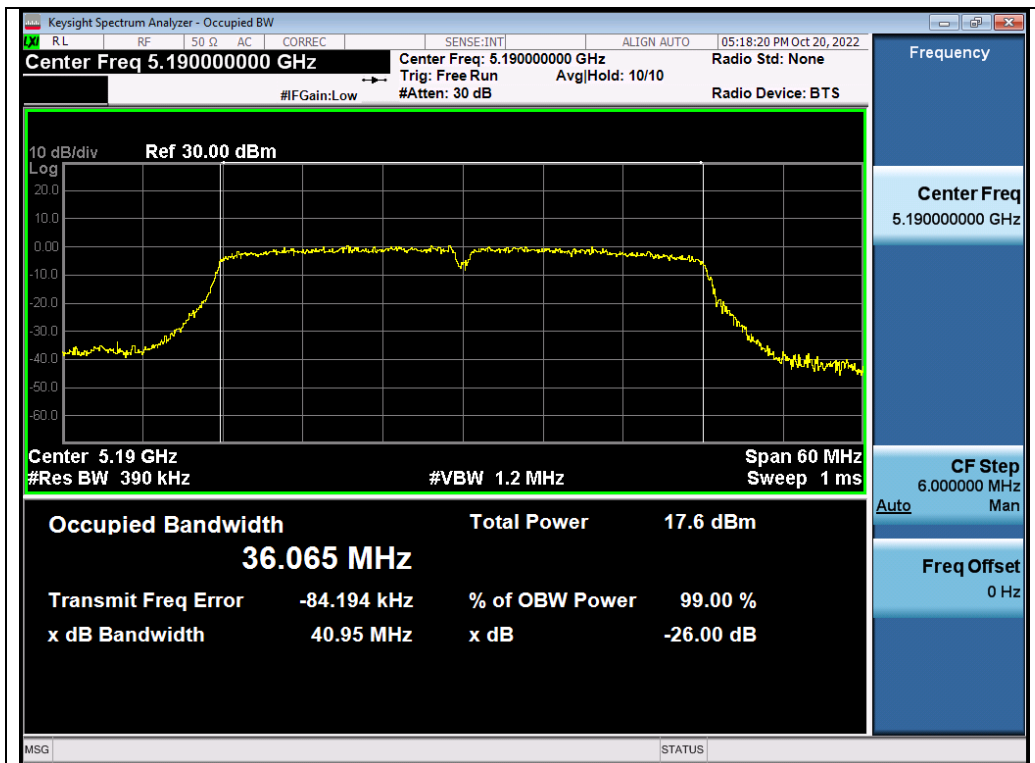


Test\_Graph\_802.11n20\_ANT2\_5200\_MCS0\_OBW

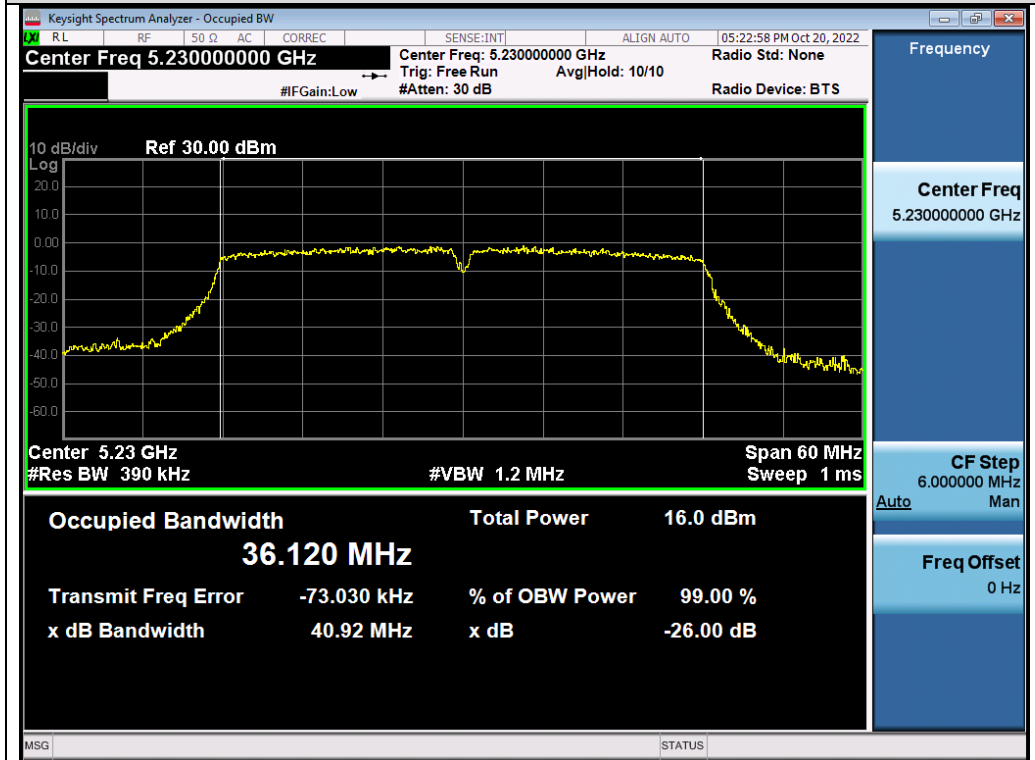


Test\_Graph\_802.11n20\_ANT2\_5240\_MCS0\_OBW

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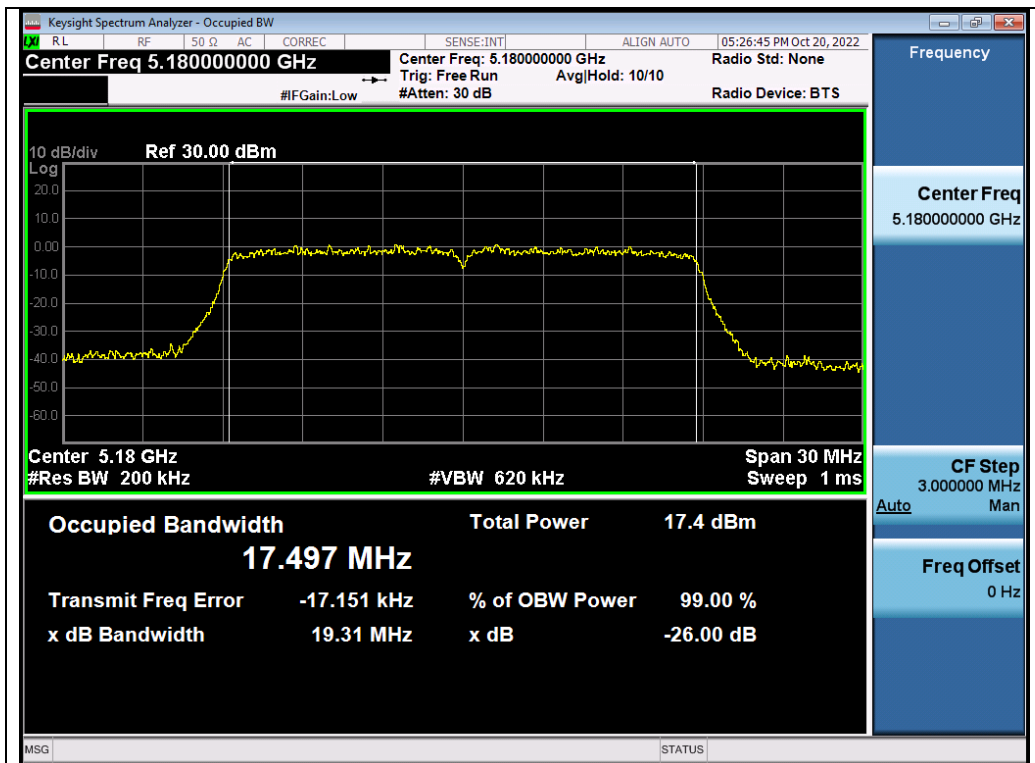
Test\_Graph\_802.11n40\_ANT2\_5190\_MCS0\_OBW



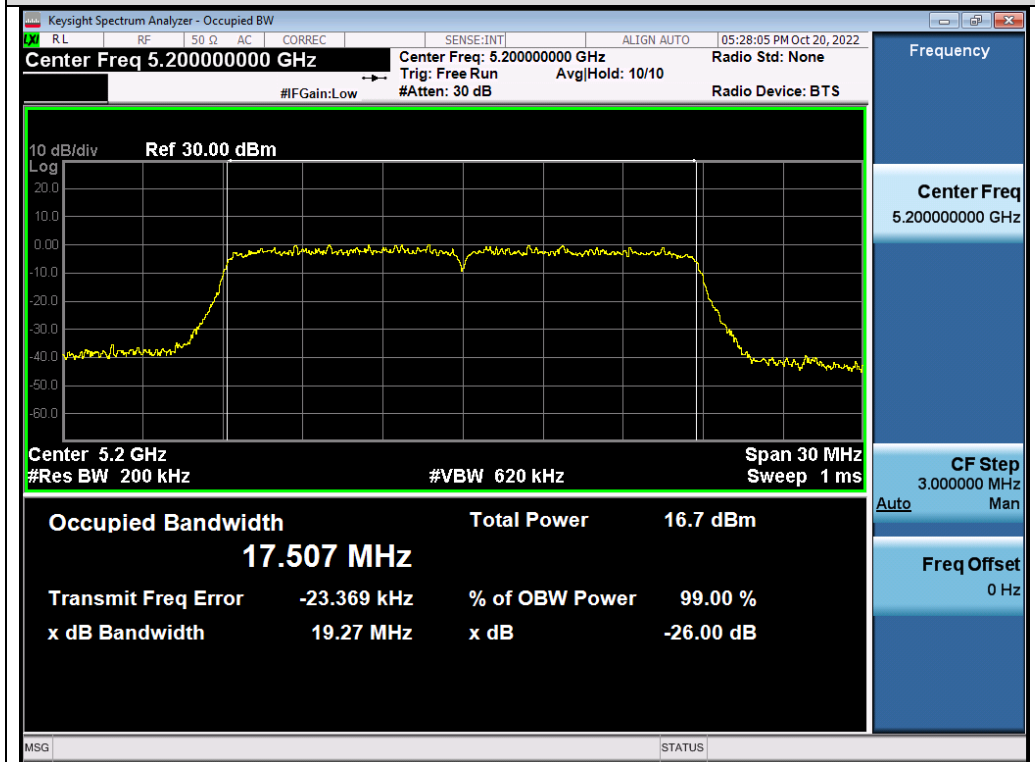
Test\_Graph\_802.11n40\_ANT2\_5230\_MCS0\_OBW

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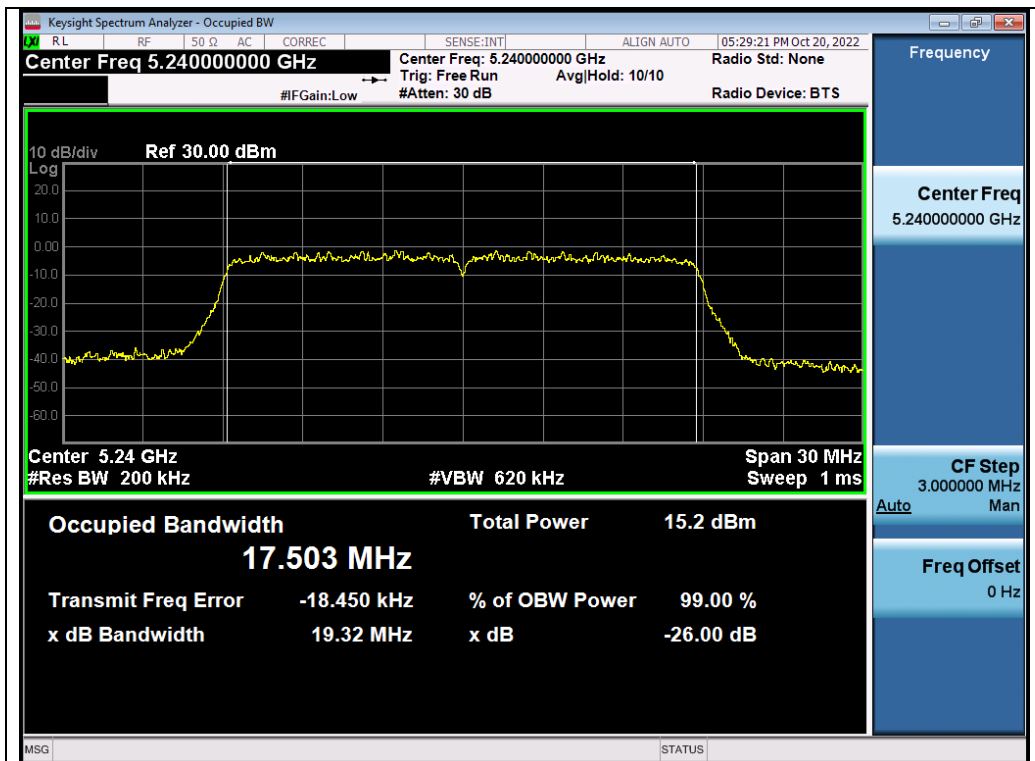


Test\_Graph\_802.11ac20\_ANT2\_5180\_MCS0\_OBW

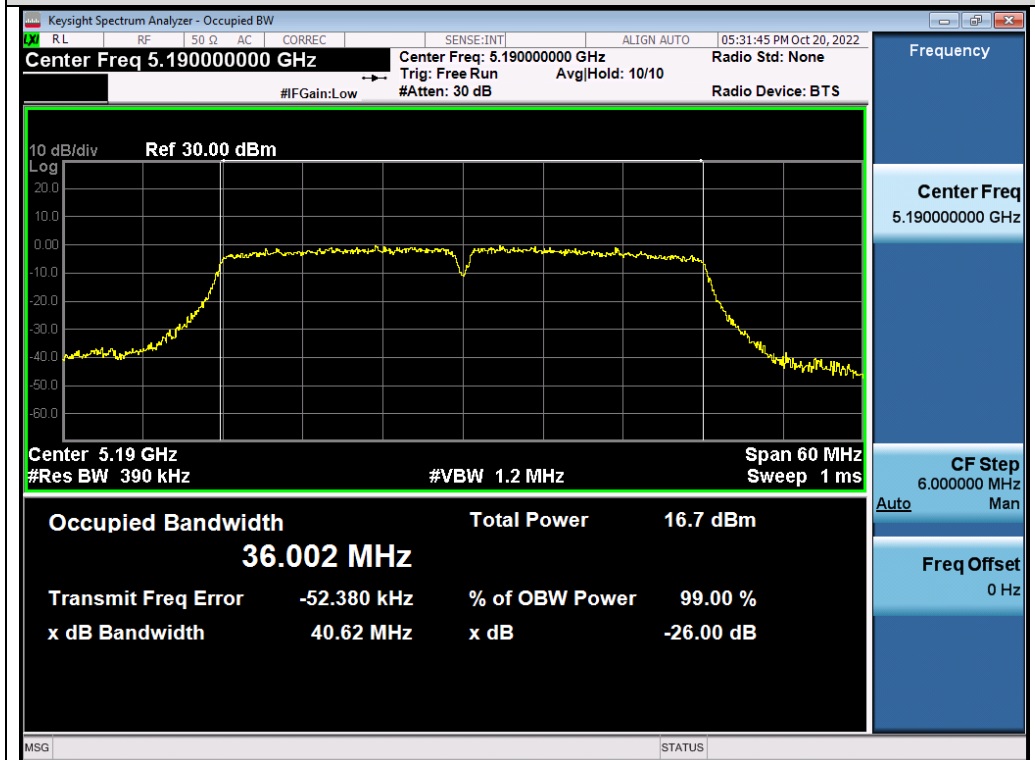


Test\_Graph\_802.11ac20\_ANT2\_5200\_MCS0\_OBW

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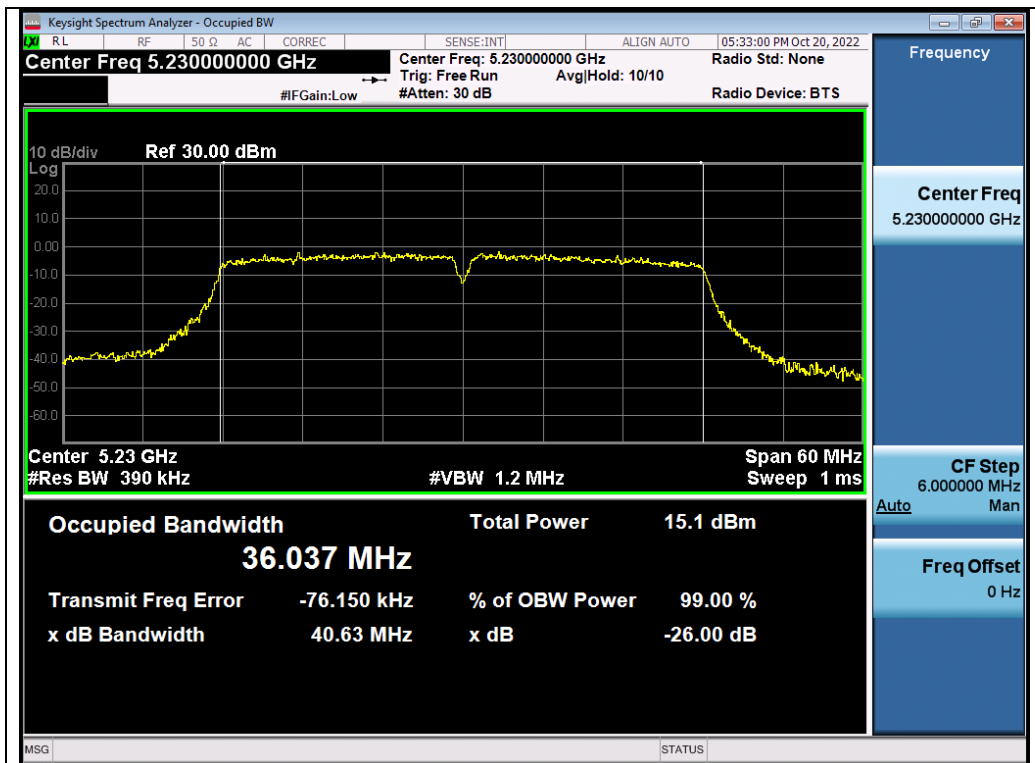


Test\_Graph\_802.11ac20\_ANT2\_5240\_MCS9\_OBW

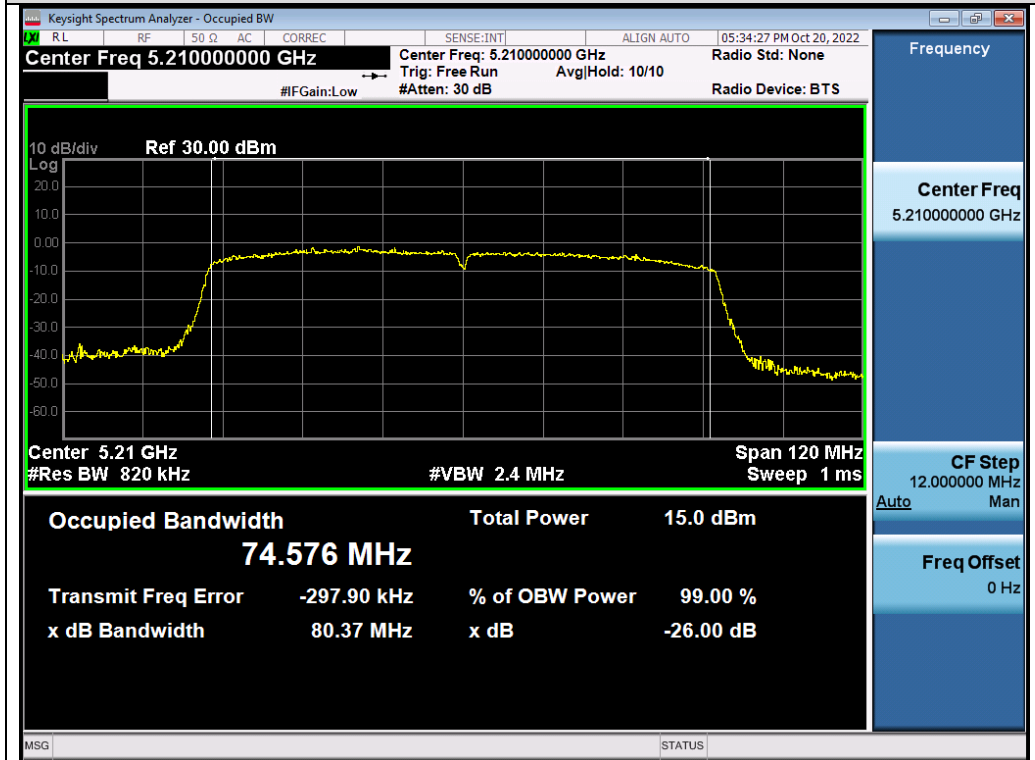


Test\_Graph\_802.11ac40\_ANT2\_5190\_MCS9\_OBW

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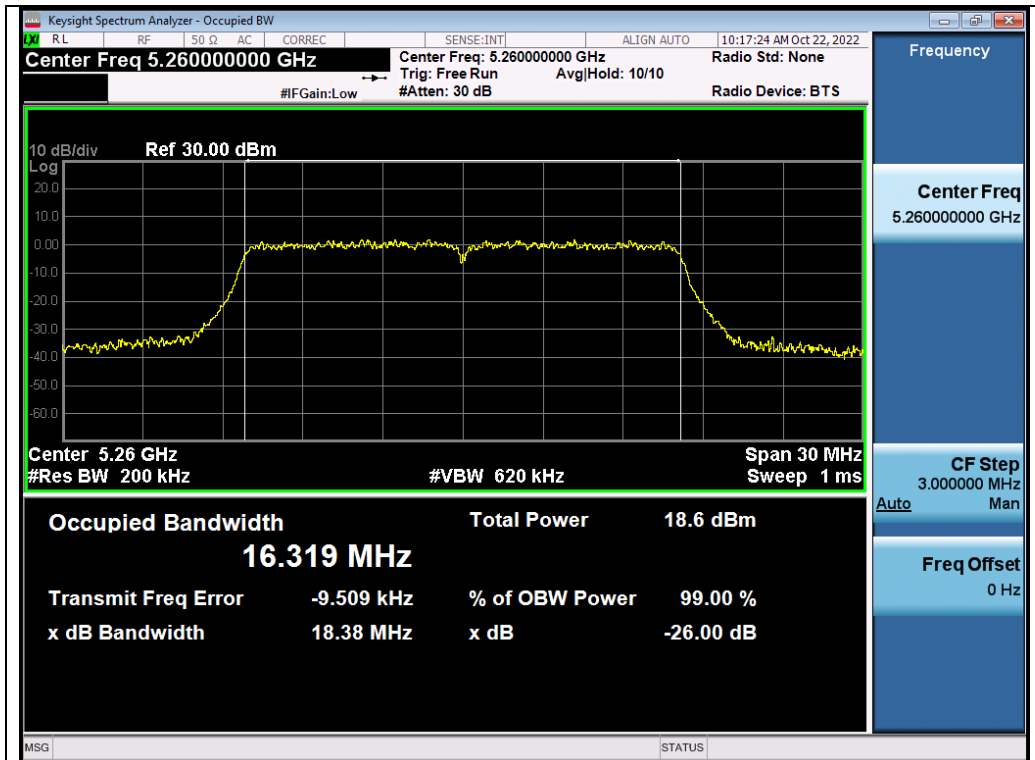
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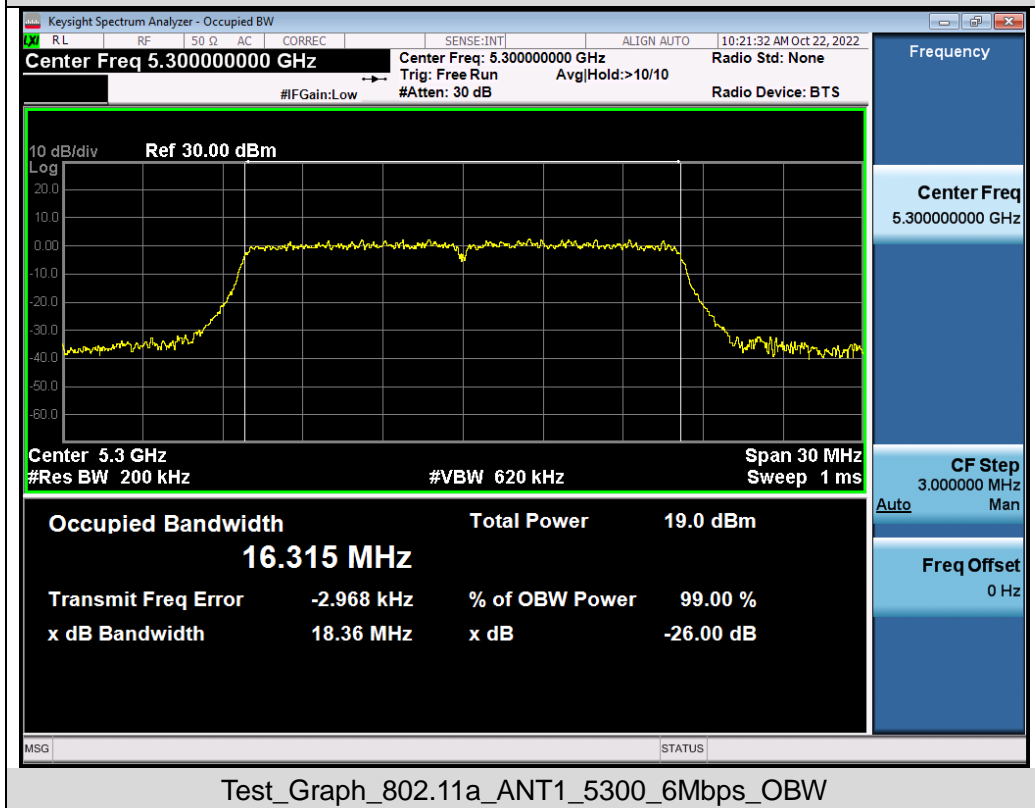
Test\_Graph\_802.11ac80\_ANT2\_5210\_MCS9\_OBW

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**Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz**

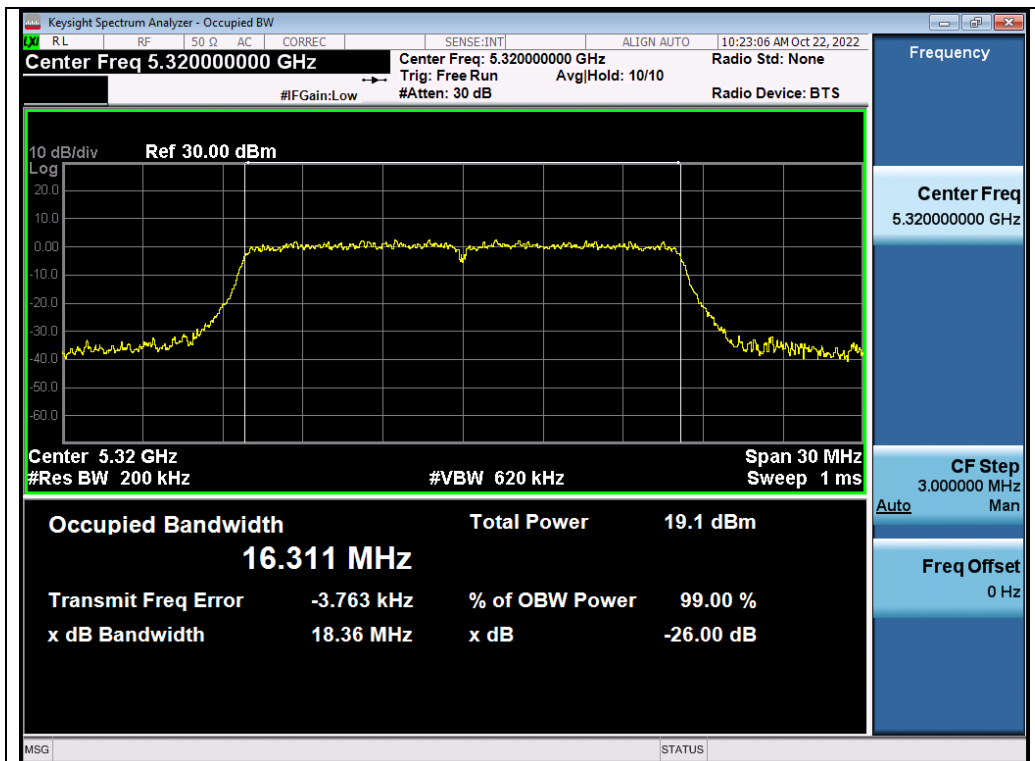


Test\_Graph\_802.11a\_ANT1\_5260\_6Mbps\_OBW

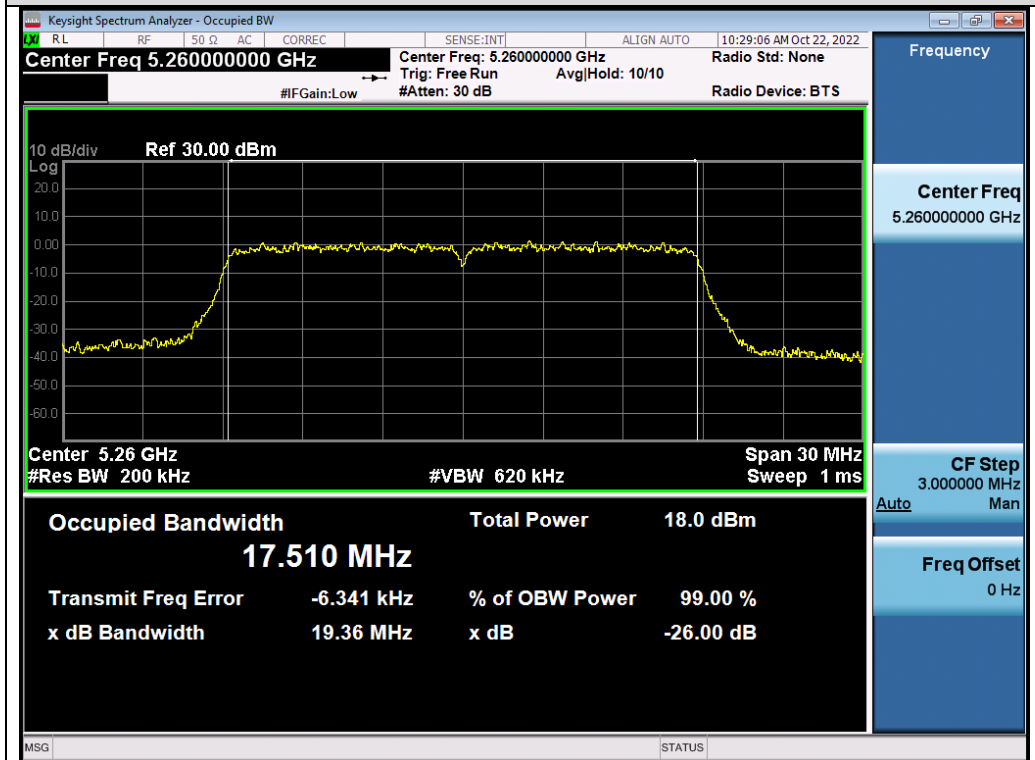


Test\_Graph\_802.11a\_ANT1\_5300\_6Mbps\_OBW

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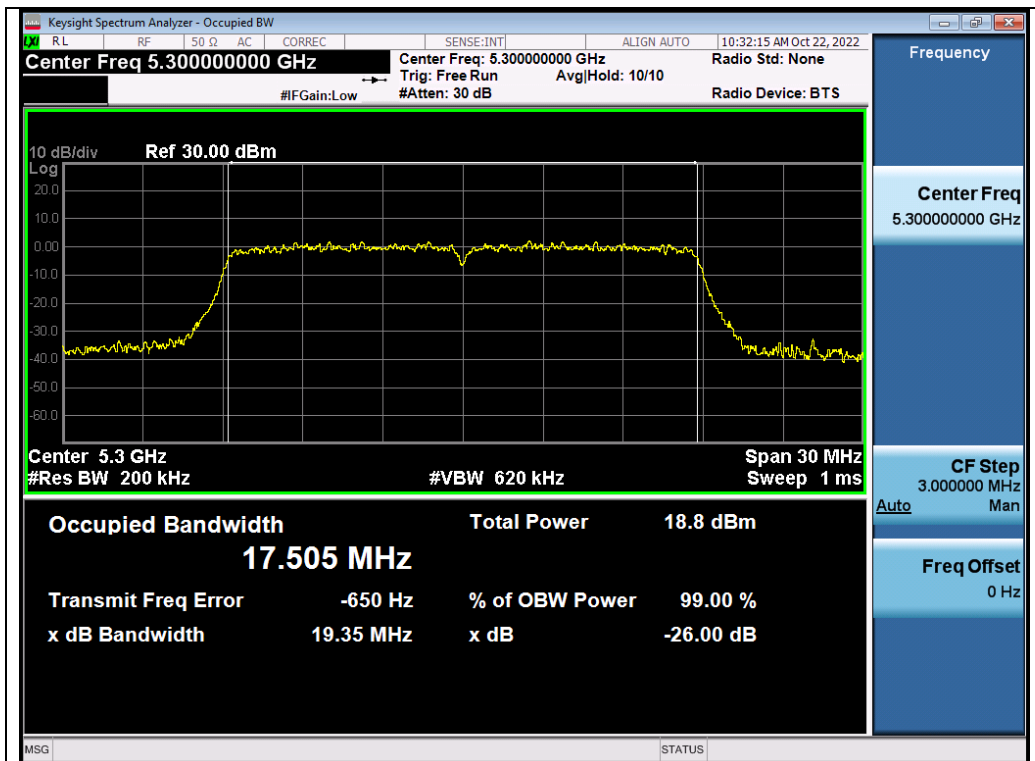


Test\_Graph\_802.11a\_ANT1\_5320\_6Mbps\_OBW

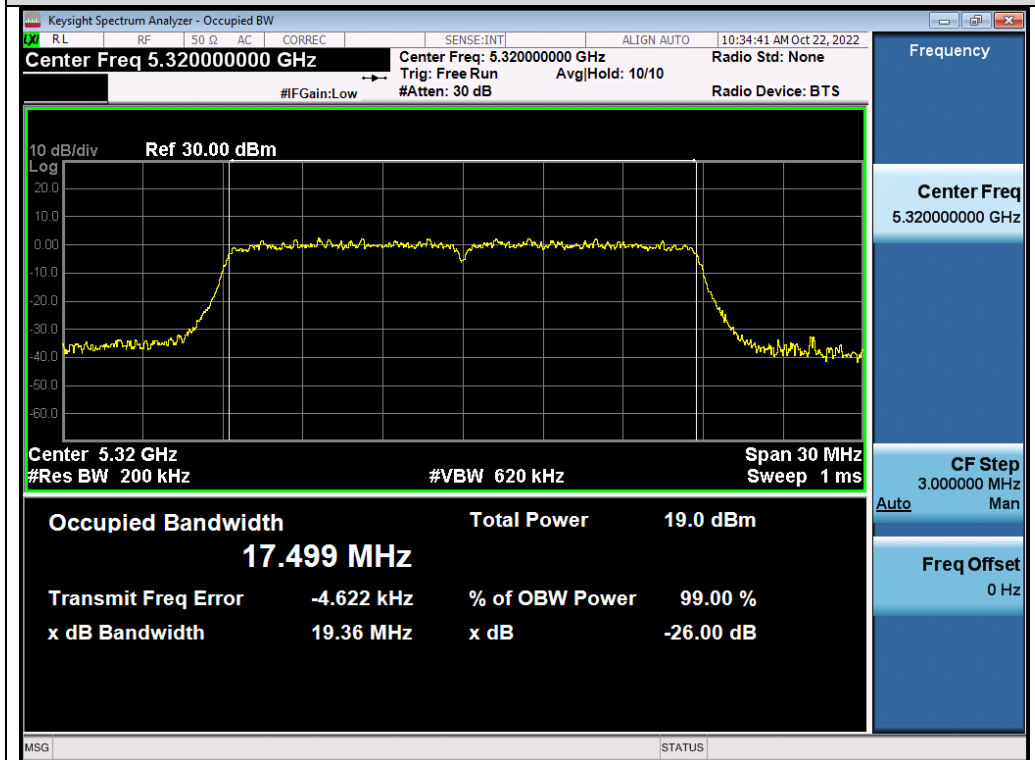


Test\_Graph\_802.11n20\_ANT1\_5260\_MCS0\_OBW

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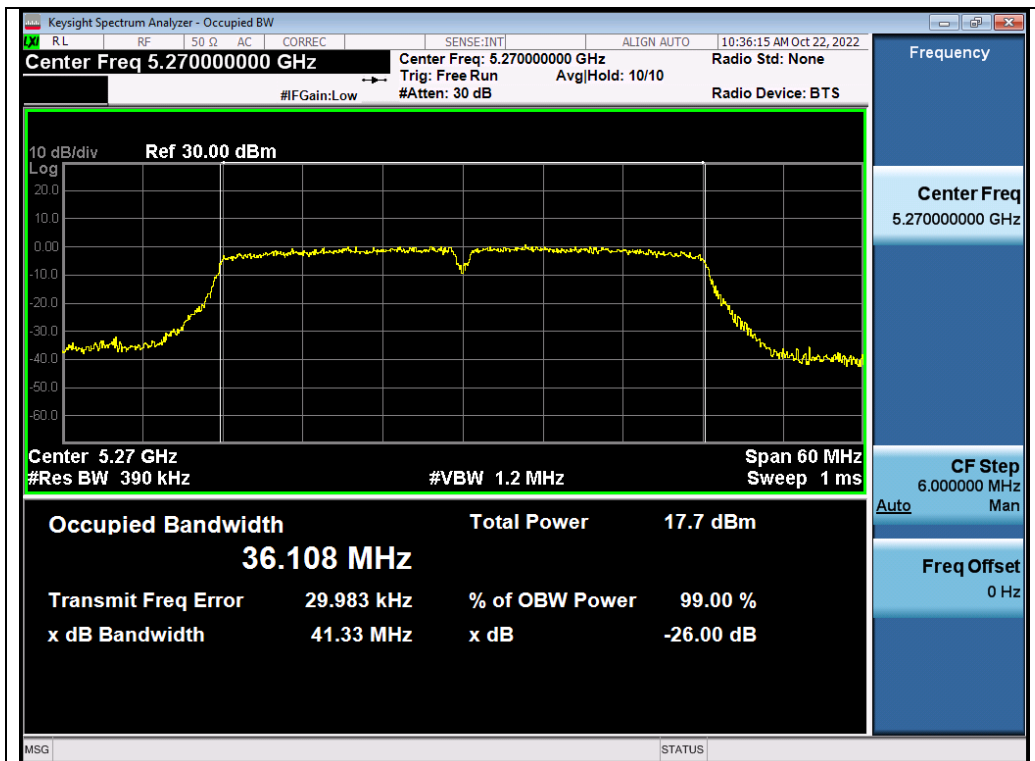


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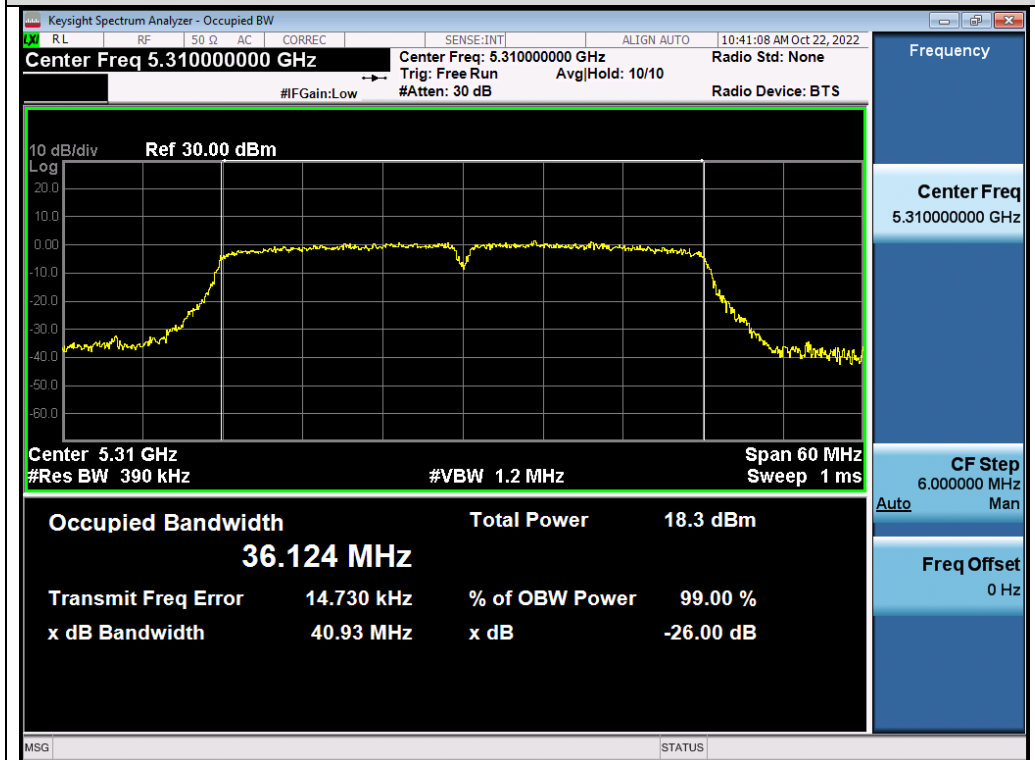


Test\_Graph\_802.11n20\_ANT1\_5320\_MCS0\_OBW

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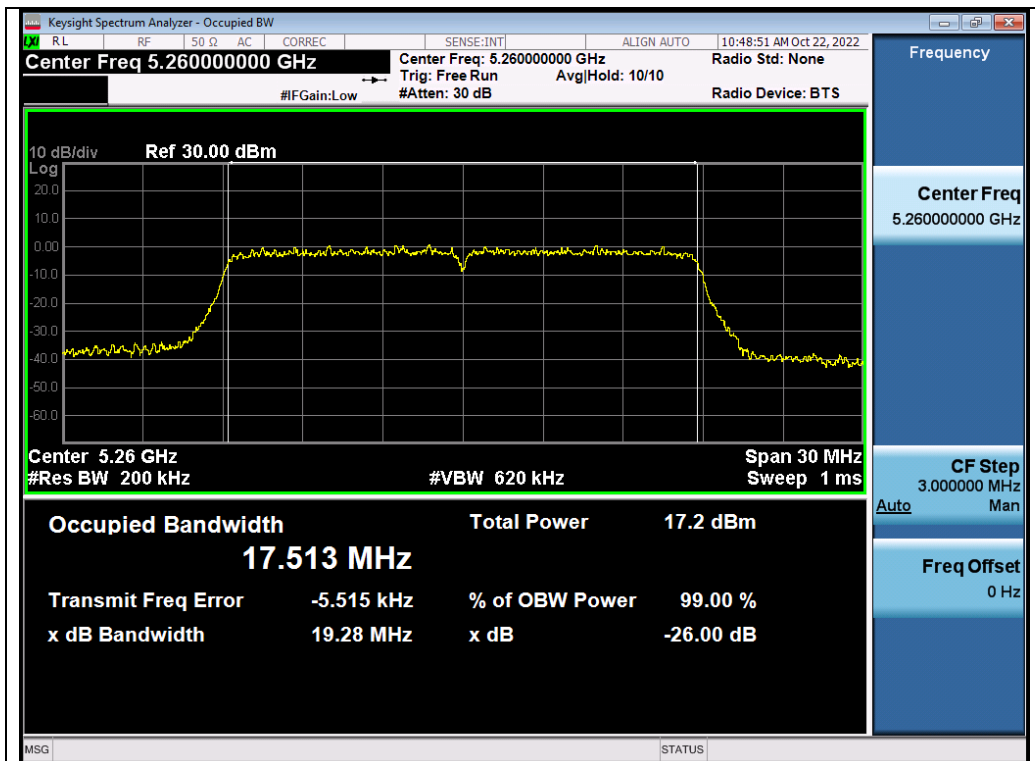


Test\_Graph\_802.11n40\_ANT1\_5270\_MCS0\_OBW

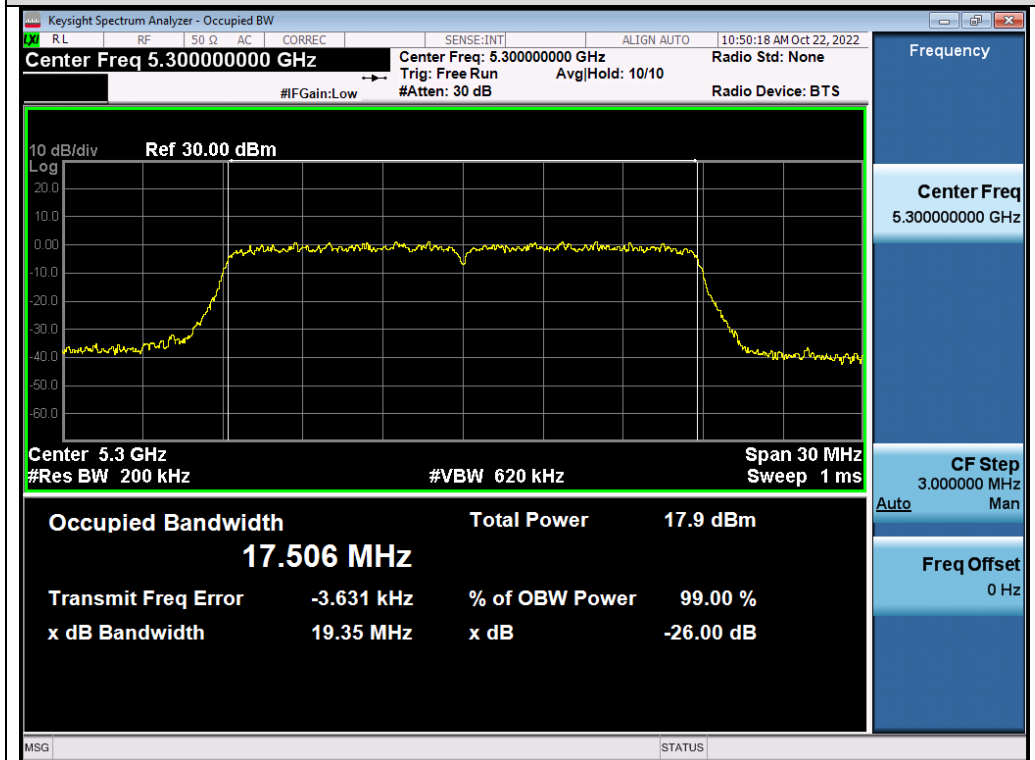


Test\_Graph\_802.11n40\_ANT1\_5310\_MCS0\_OBW

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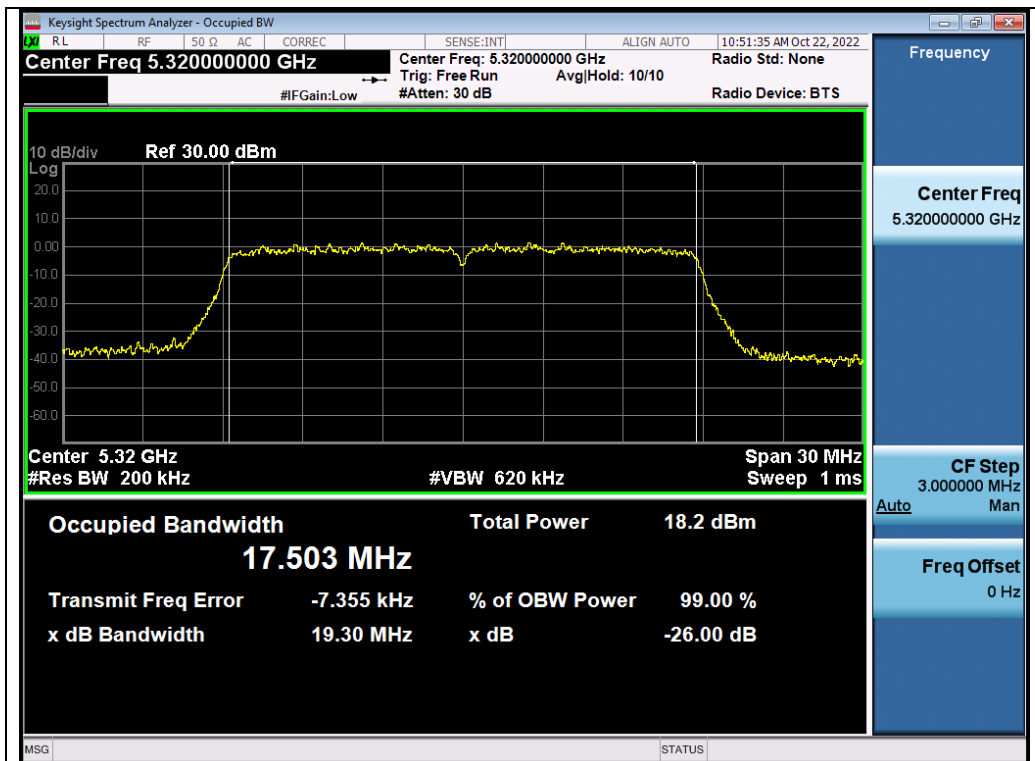
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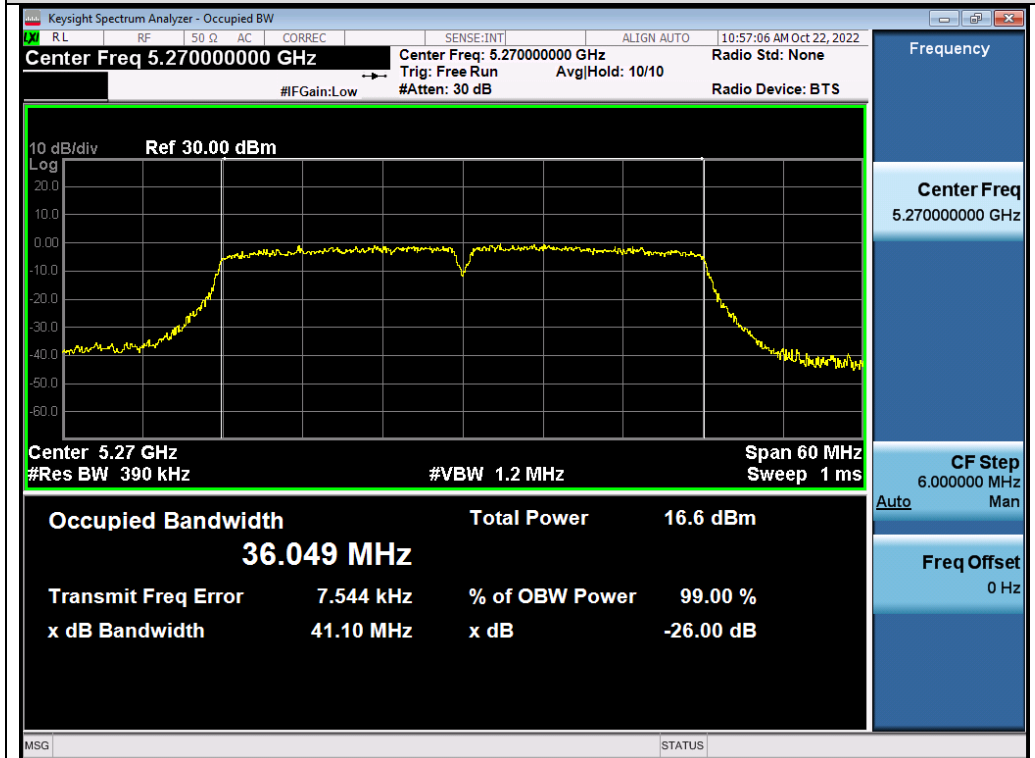
Test\_Graph\_802.11ac20\_ANT1\_5300\_MCS0\_OBW

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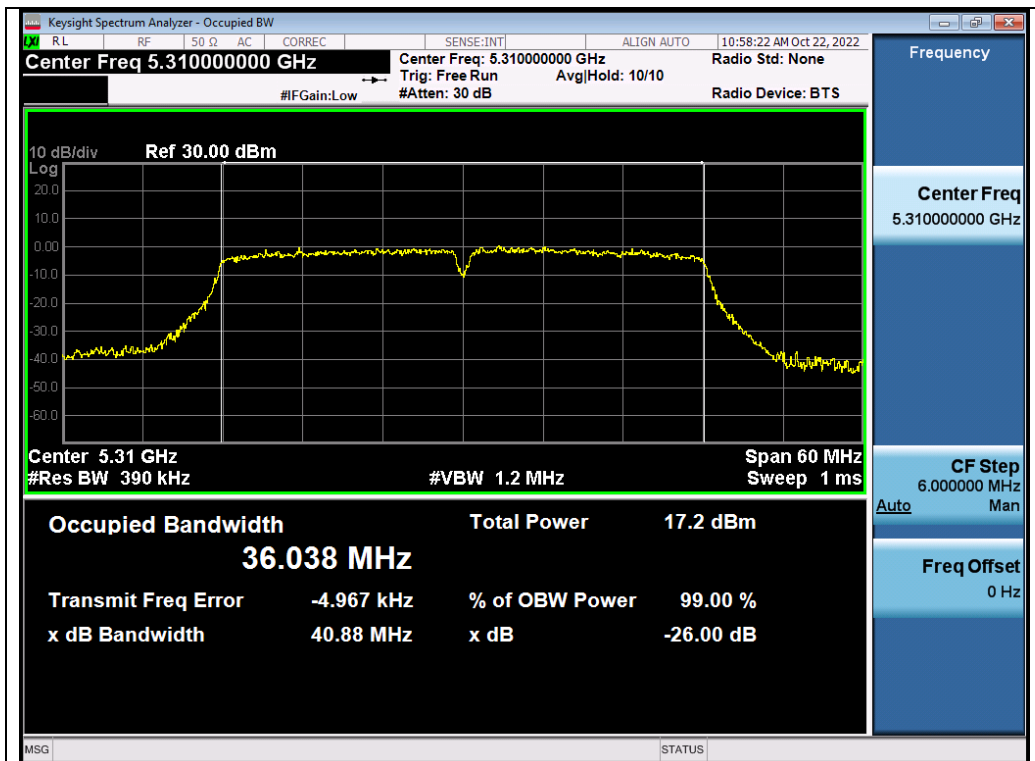


Test\_Graph\_802.11ac20\_ANT1\_5320\_MCS9\_OBW

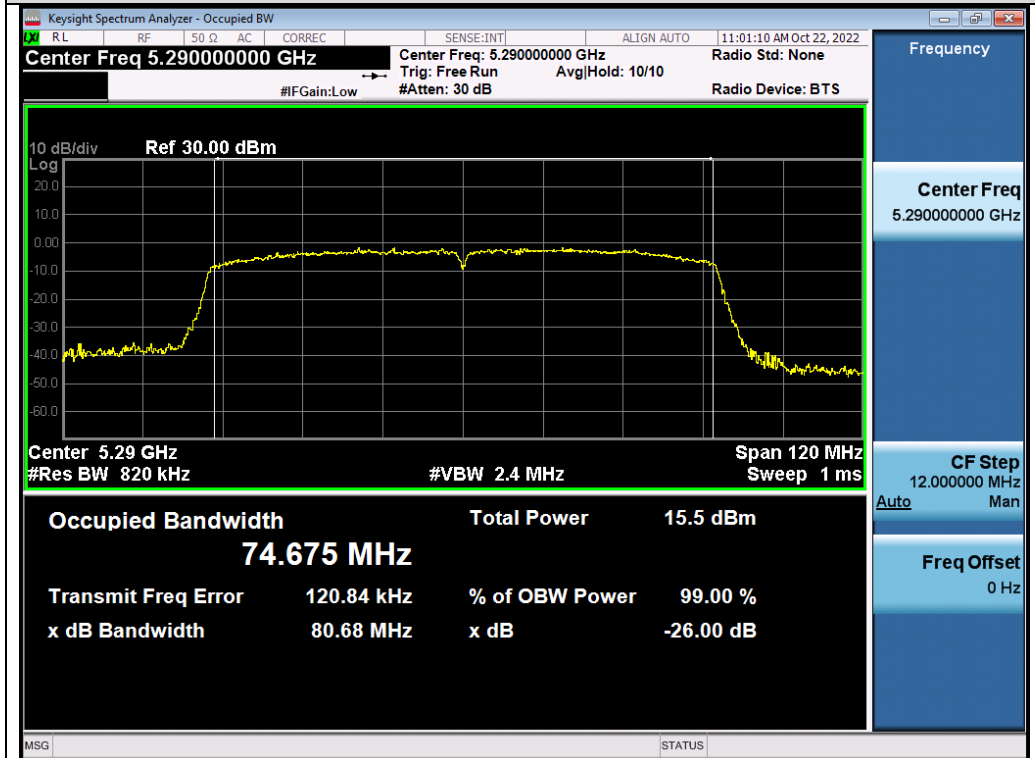


Test\_Graph\_802.11ac40\_ANT1\_5270\_MCS9\_OBW

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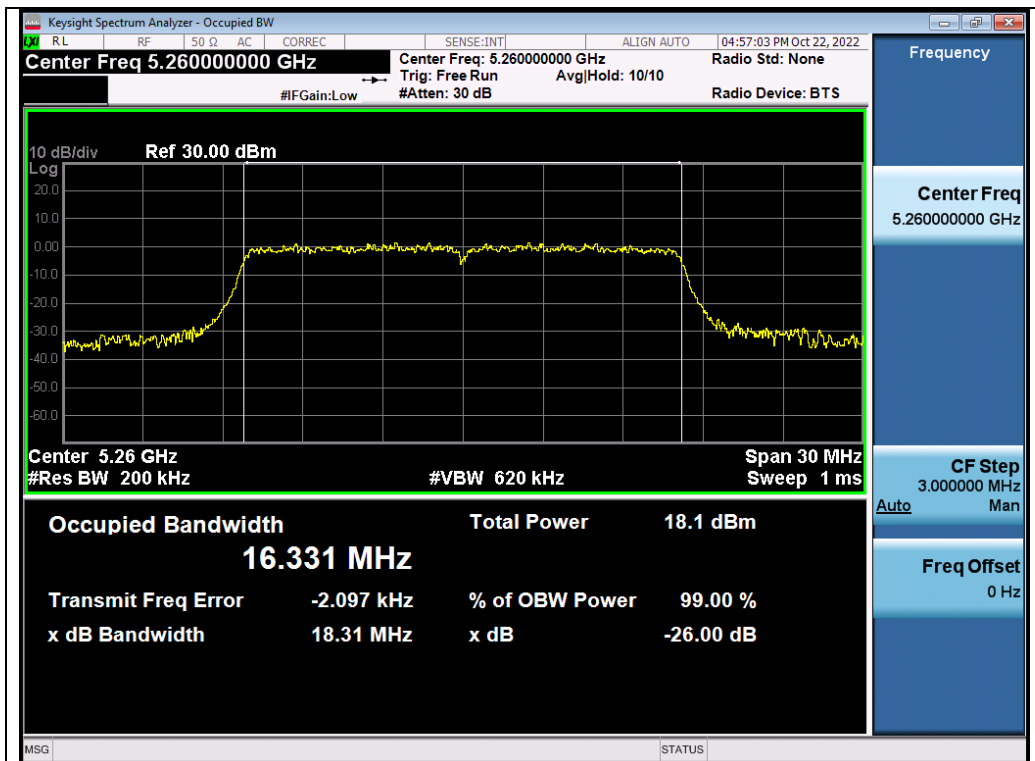


Test\_Graph\_802.11ac40\_ANT1\_5310\_MCS9\_OBW

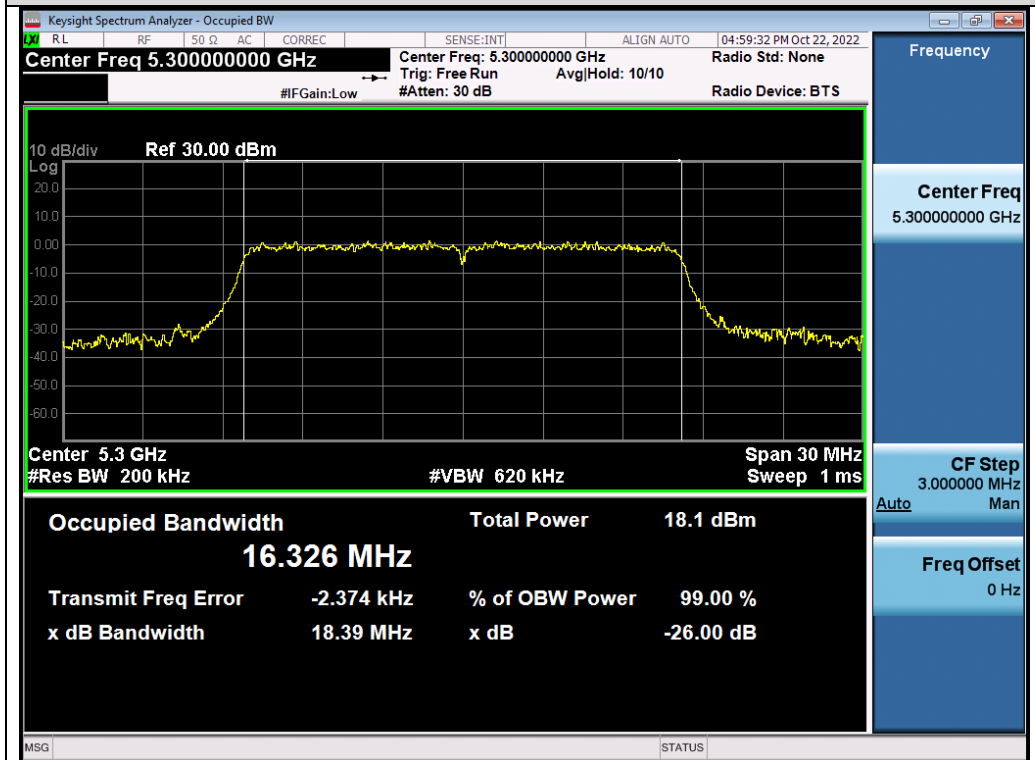


Test\_Graph\_802.11ac80\_ANT1\_5290\_MCS9\_OBW

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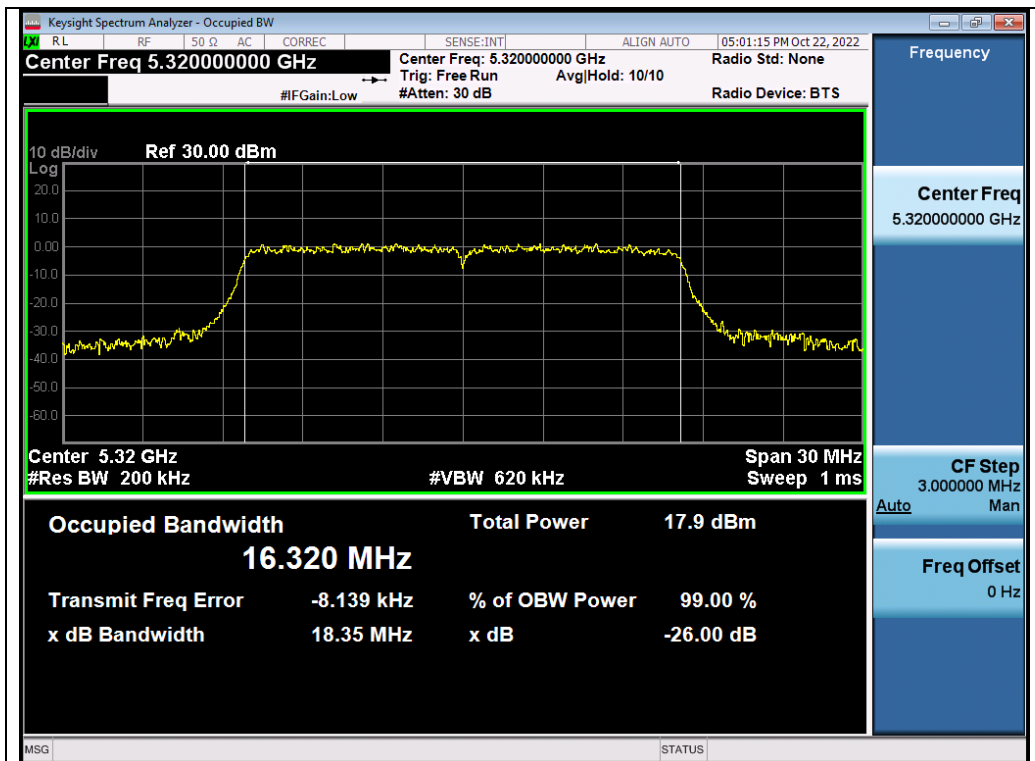


Test\_Graph\_802.11a\_ANT2\_5260\_6Mbps\_OBW

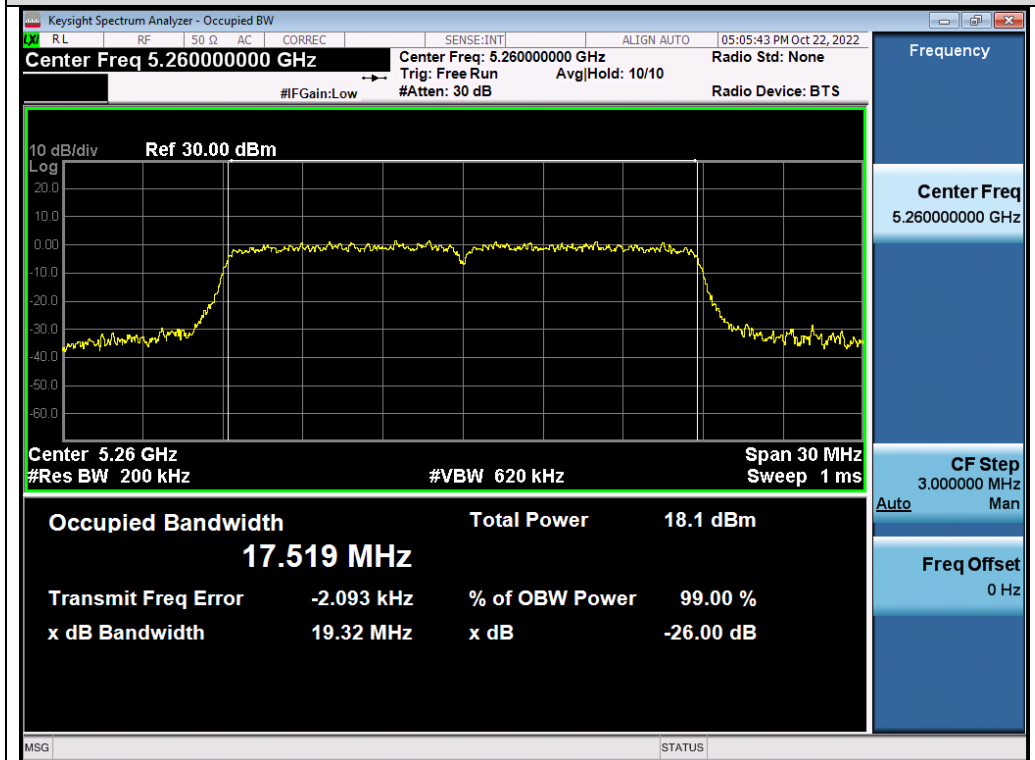


Test\_Graph\_802.11a\_ANT2\_5300\_6Mbps\_OBW

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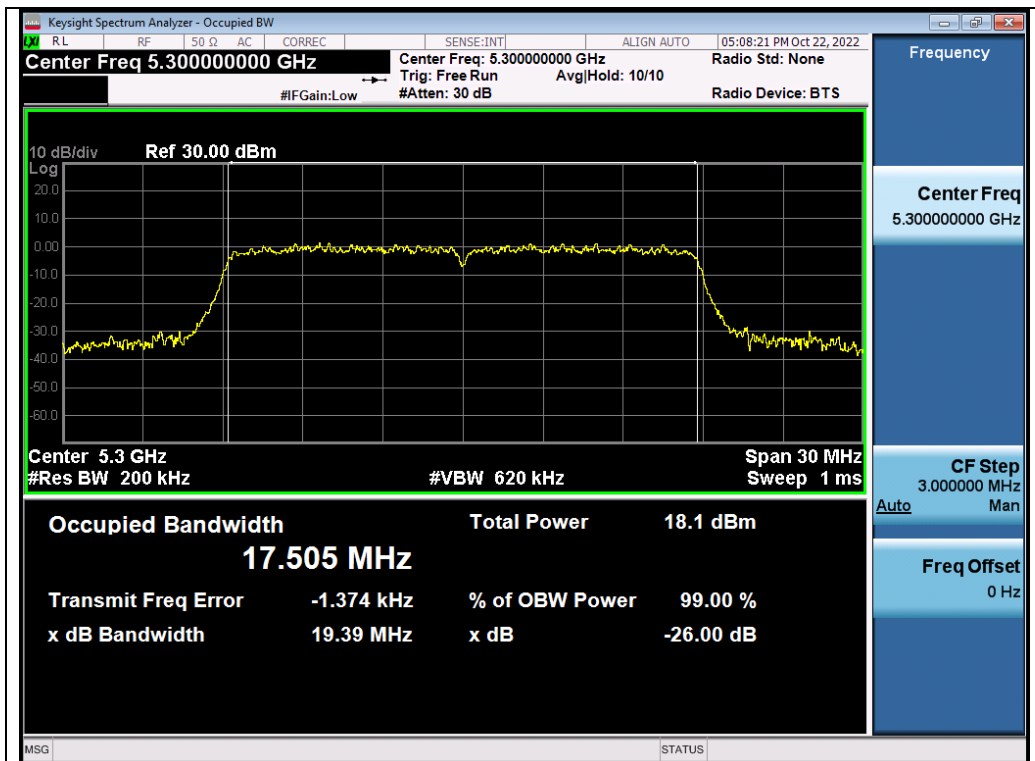


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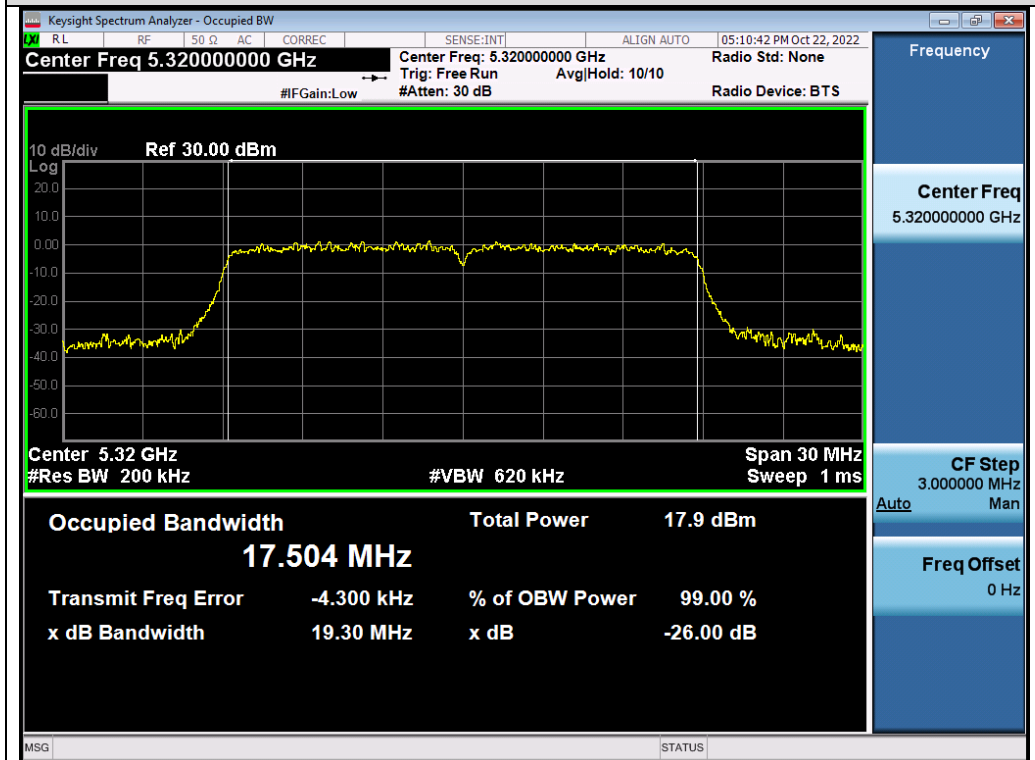


Test\_Graph\_802.11n20\_ANT2\_5260\_MCS0\_OBW

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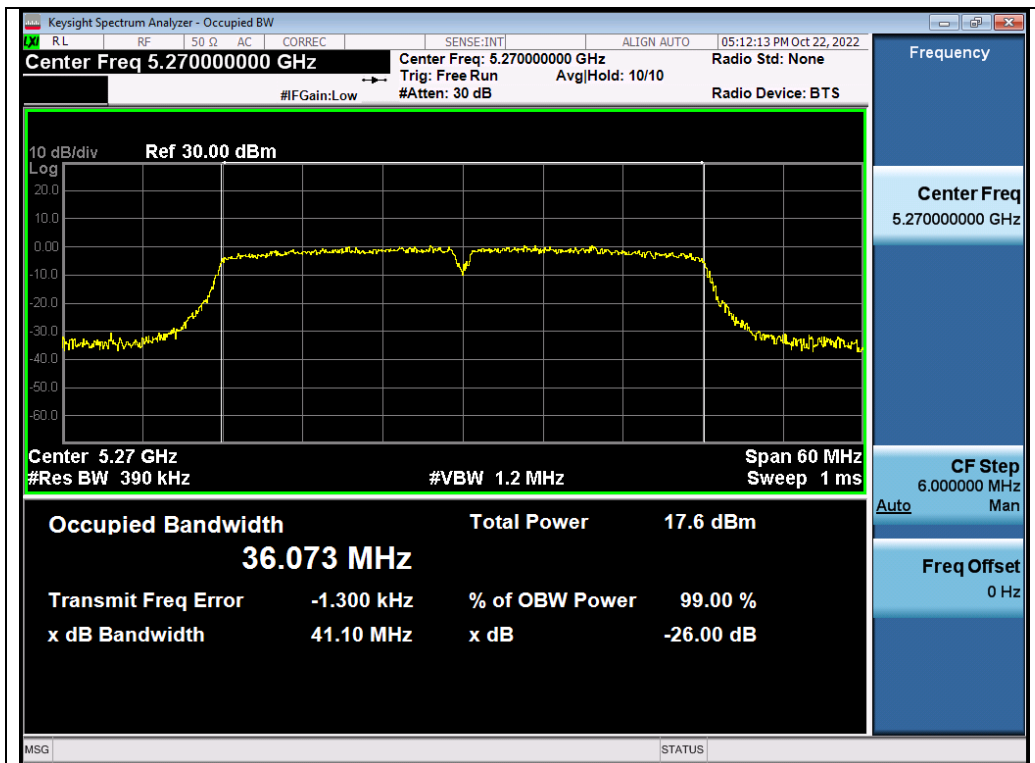


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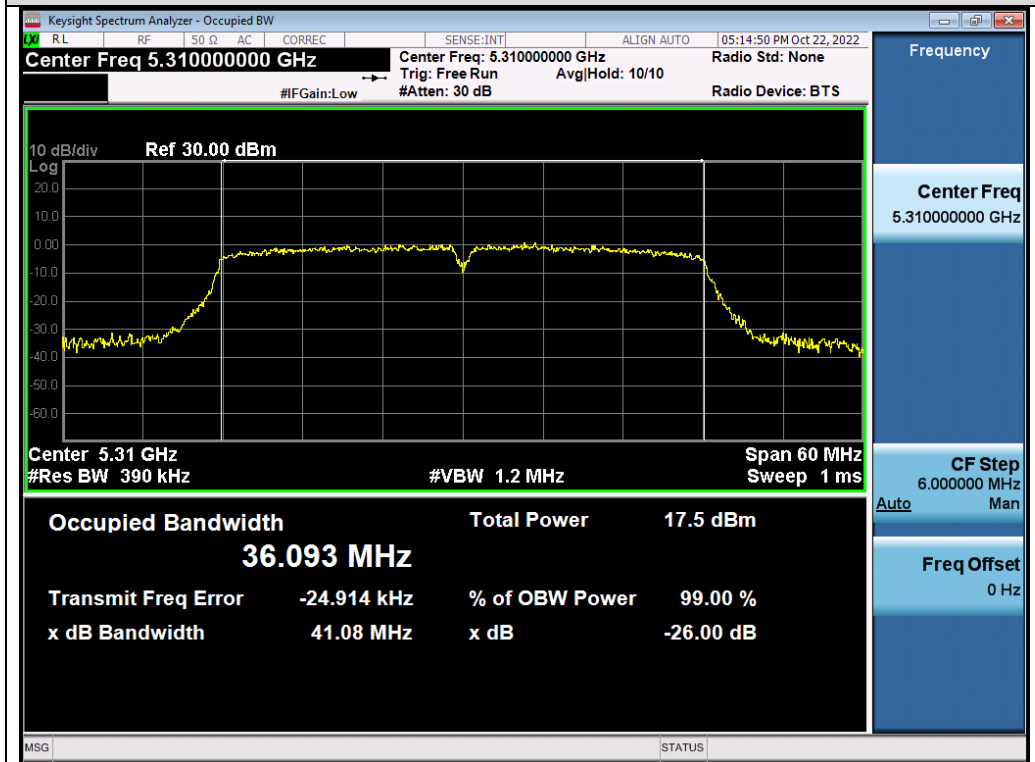


Test\_Graph\_802.11n20\_ANT2\_5320\_MCS0\_OBW

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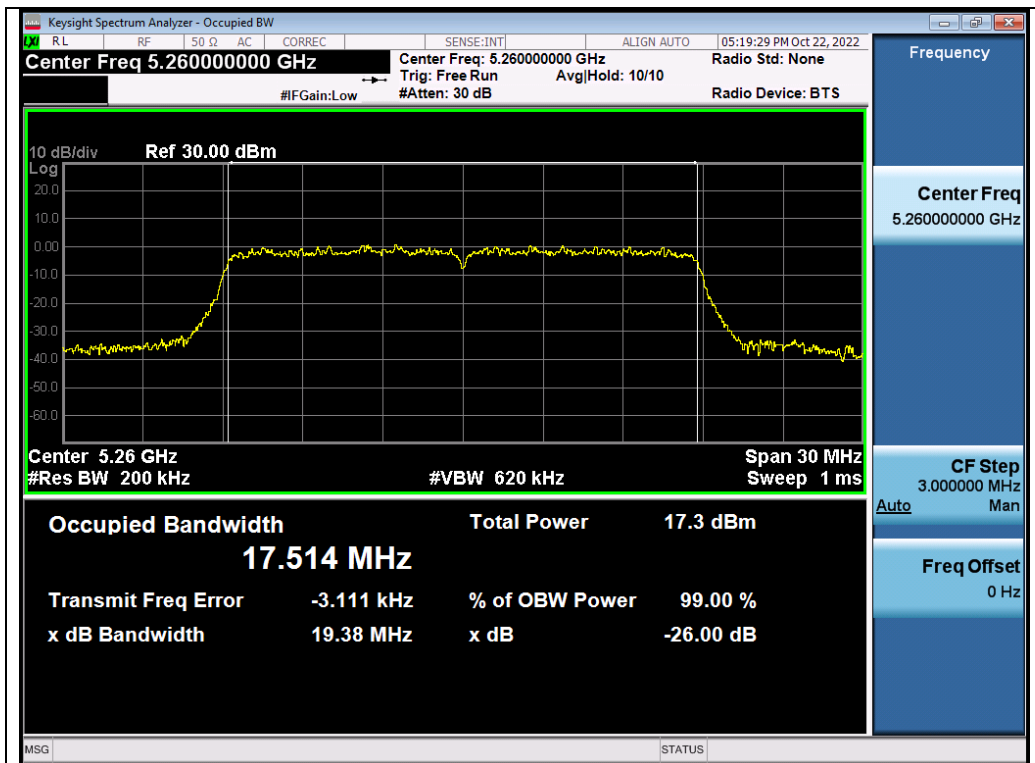


Test\_Graph\_802.11n40\_ANT2\_5270\_MCS0\_OBW

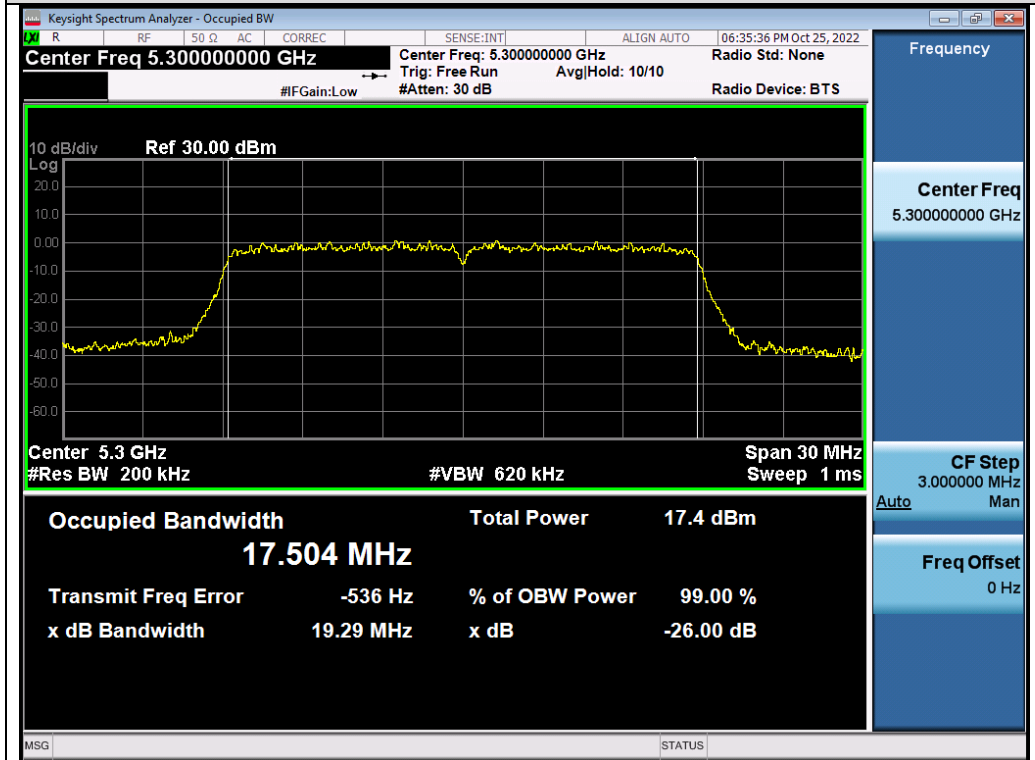


Test\_Graph\_802.11n40\_ANT2\_5310\_MCS0\_OBW

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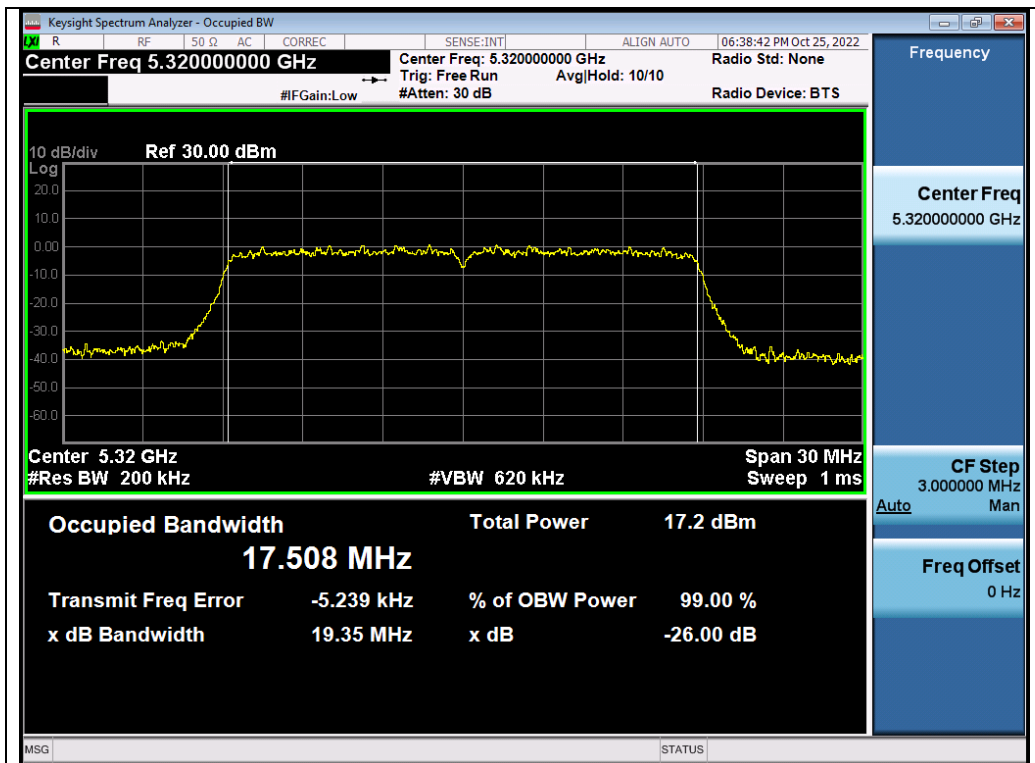


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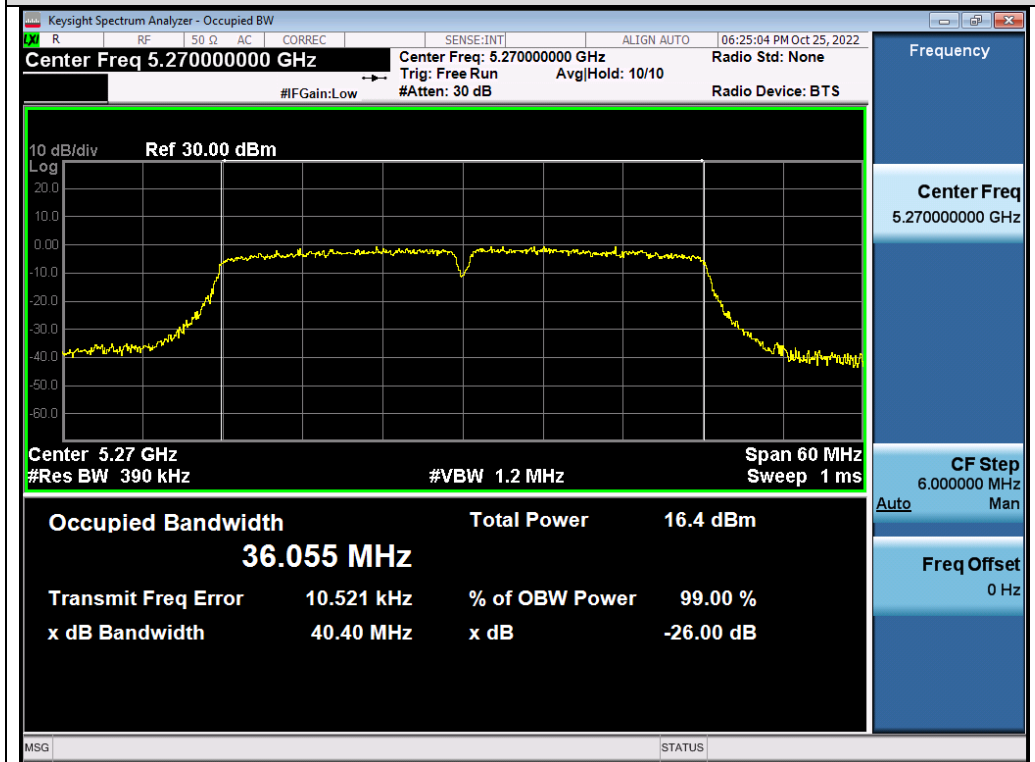


Test\_Graph\_802.11ac20\_ANT2\_5300\_MCS0\_OBW

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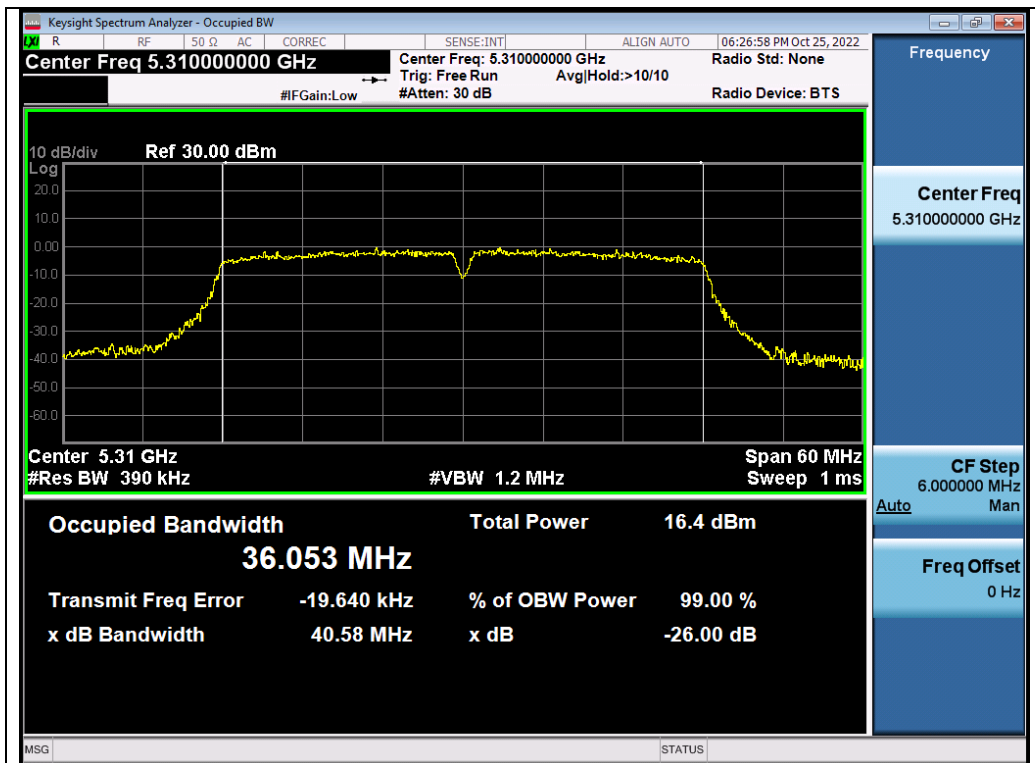
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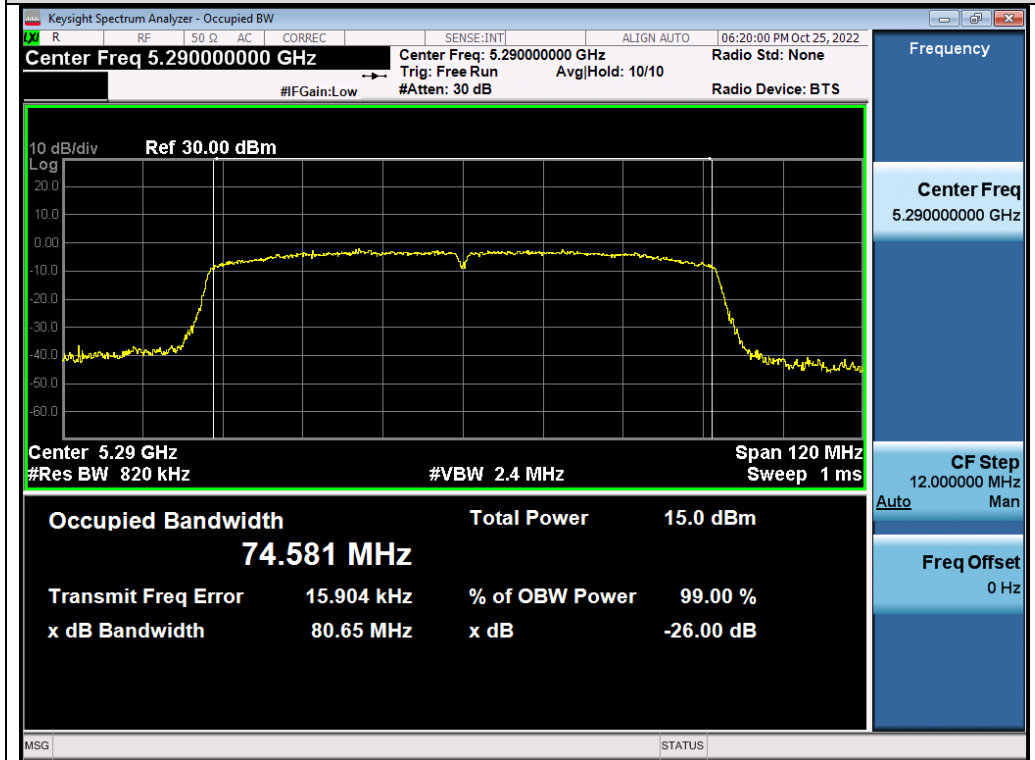
Test\_Graph\_802.11ac40\_ANT2\_5270\_MCS9\_OBW

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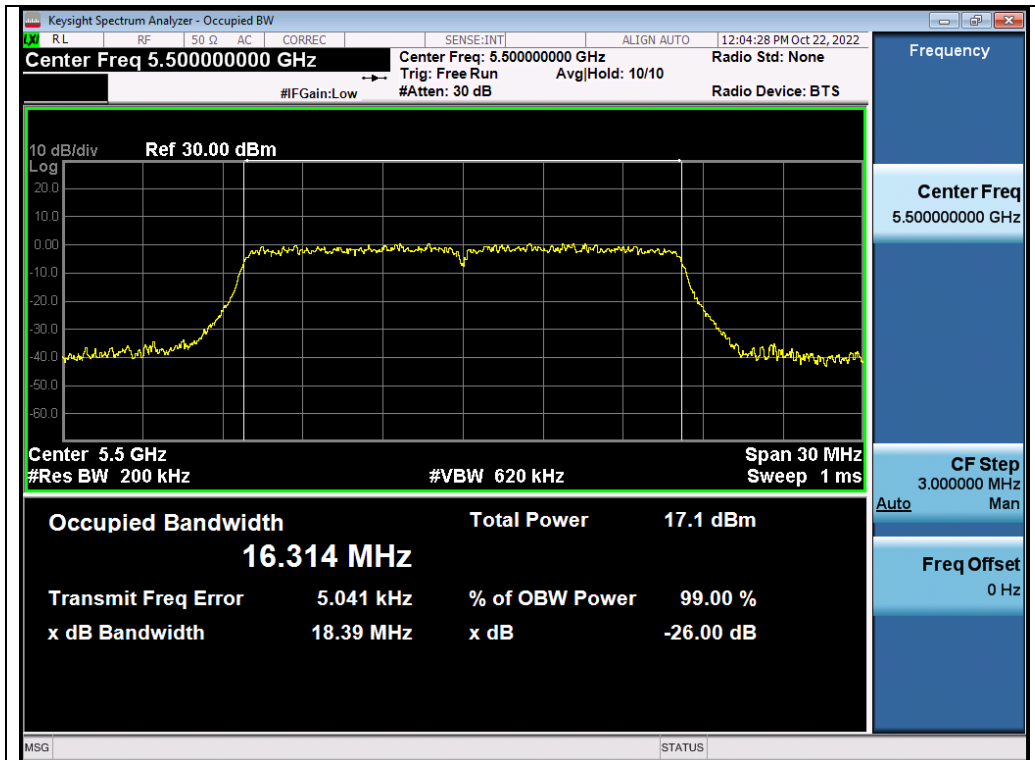
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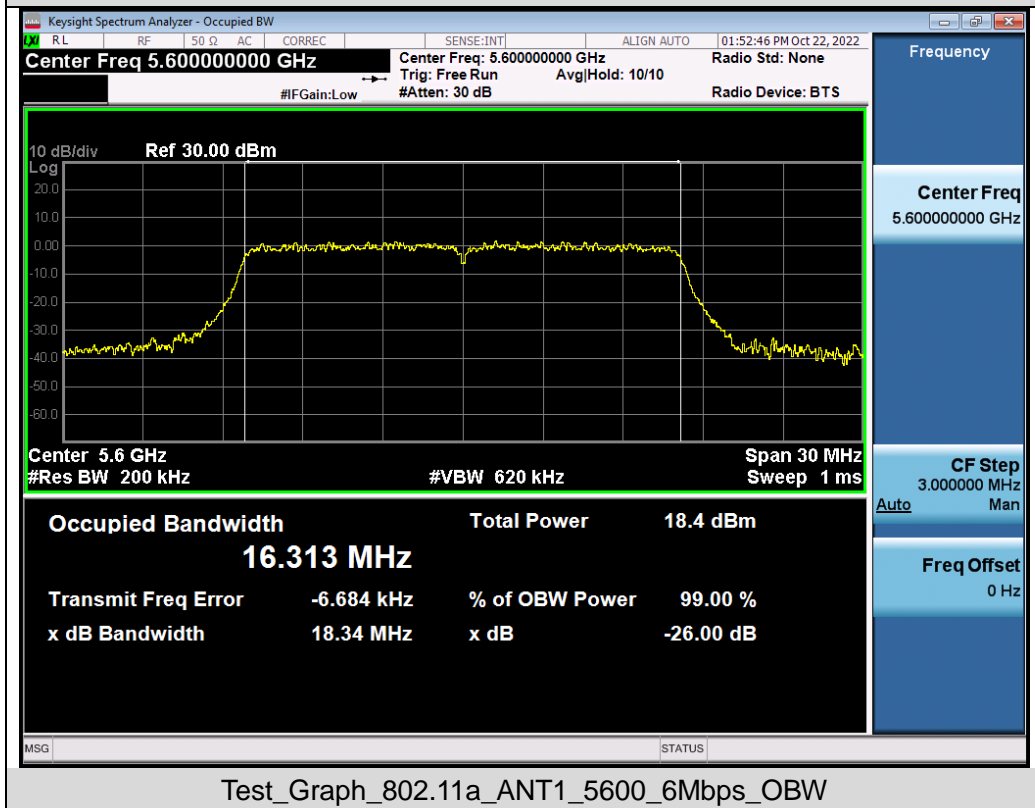
Test\_Graph\_802.11ac80\_ANT2\_5290\_MCS9\_OBW

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**Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz**

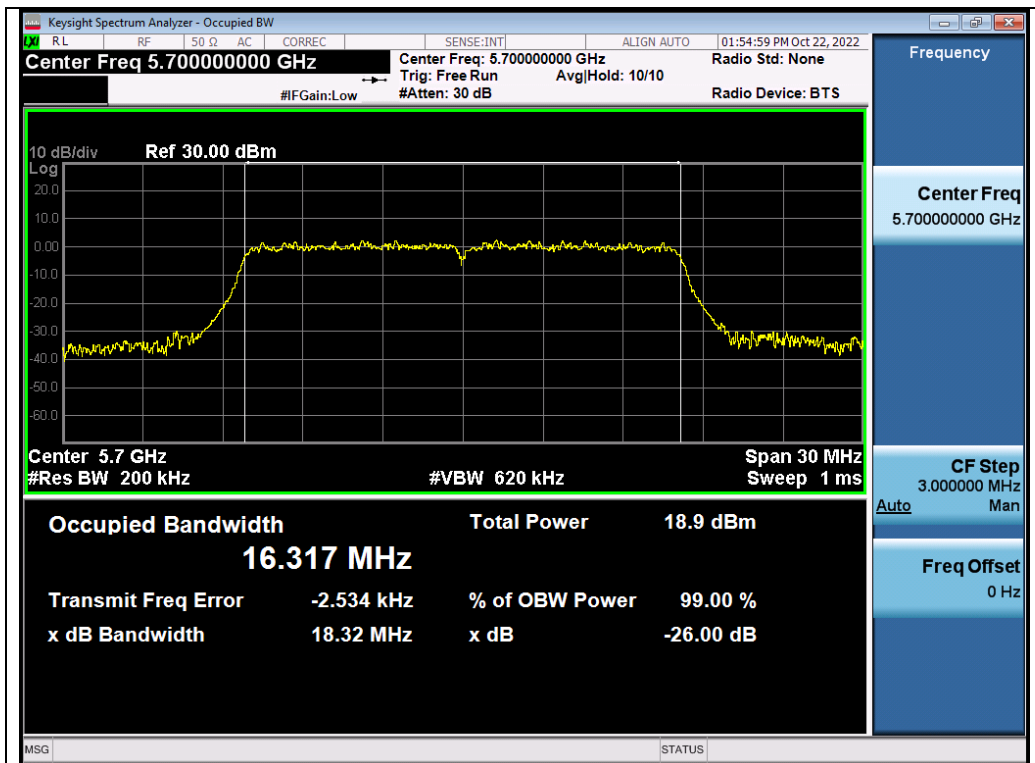


Test\_Graph\_802.11a\_ANT1\_5500\_6Mbps\_OBW

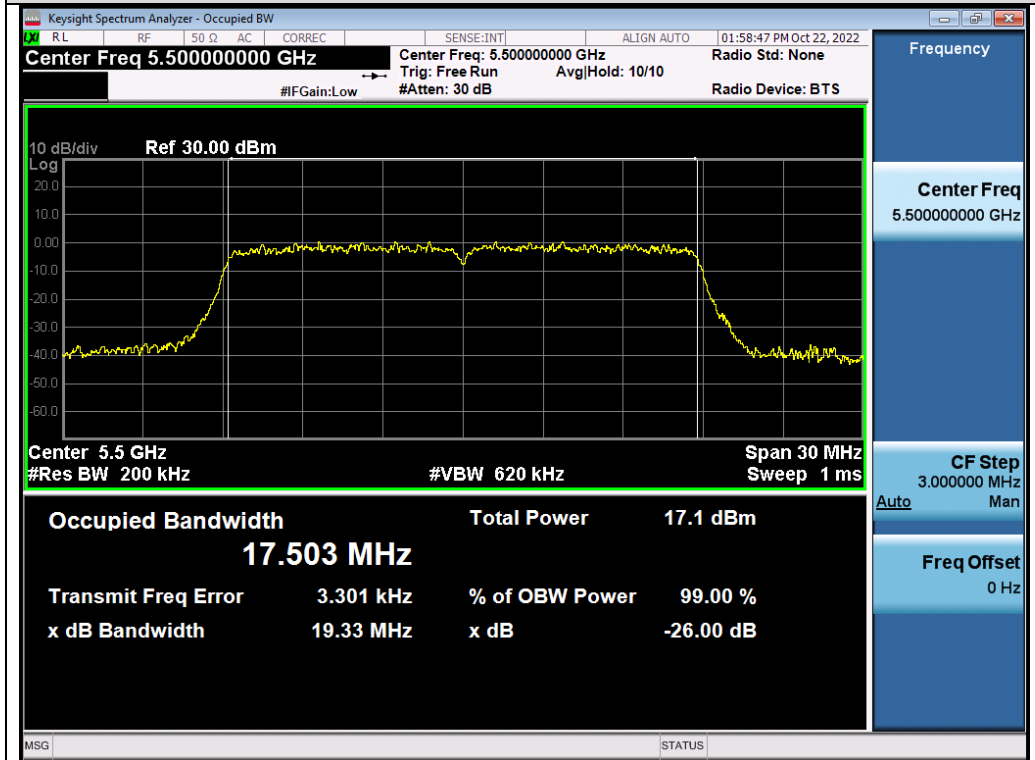


Test\_Graph\_802.11a\_ANT1\_5600\_6Mbps\_OBW

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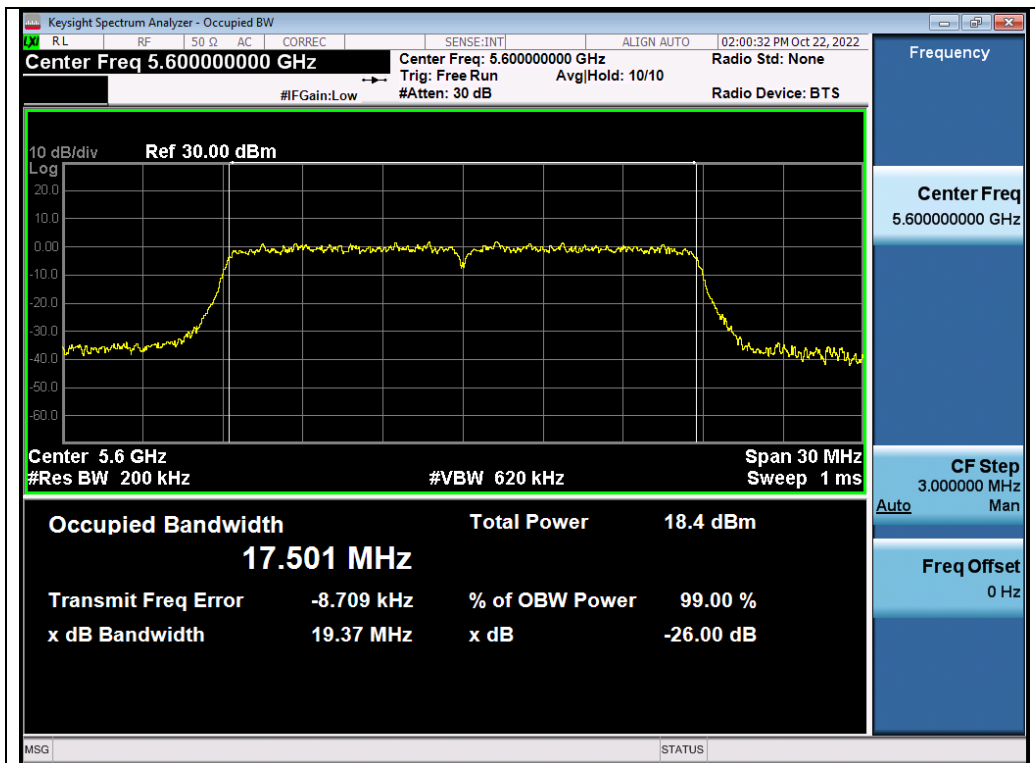


Test\_Graph\_802.11a\_ANT1\_5700\_6Mbps\_OBW

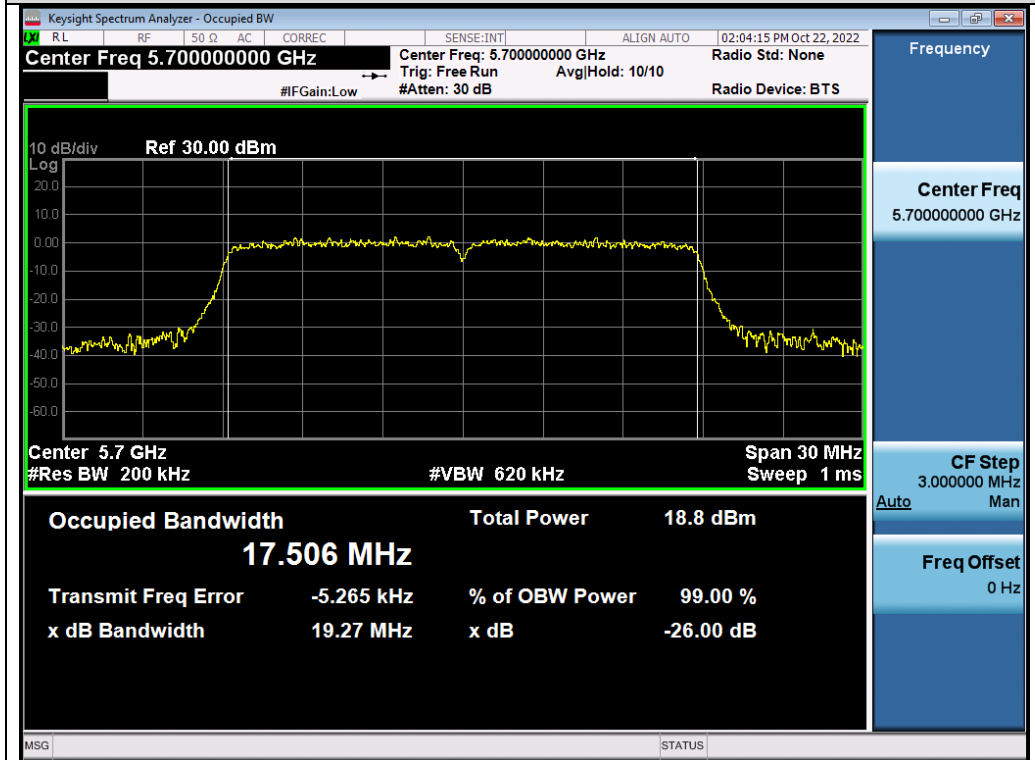


Test\_Graph\_802.11n20\_ANT1\_5500\_MCS0\_OBW

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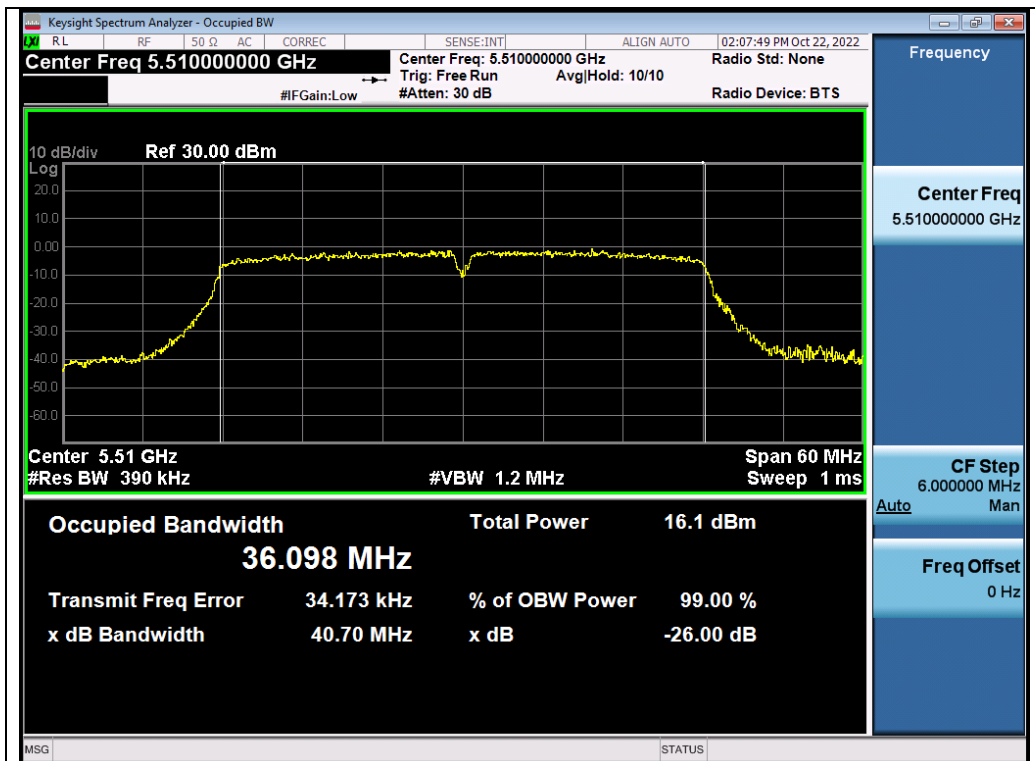


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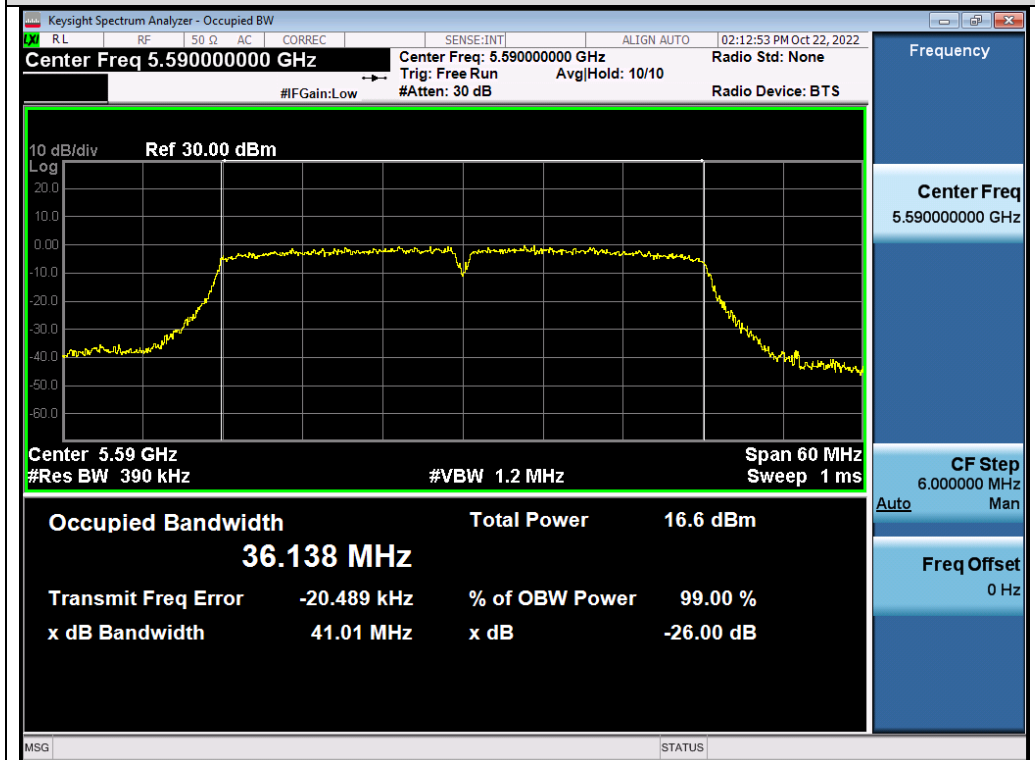


Test\_Graph\_802.11n20\_ANT1\_5700\_MCS0\_OBW

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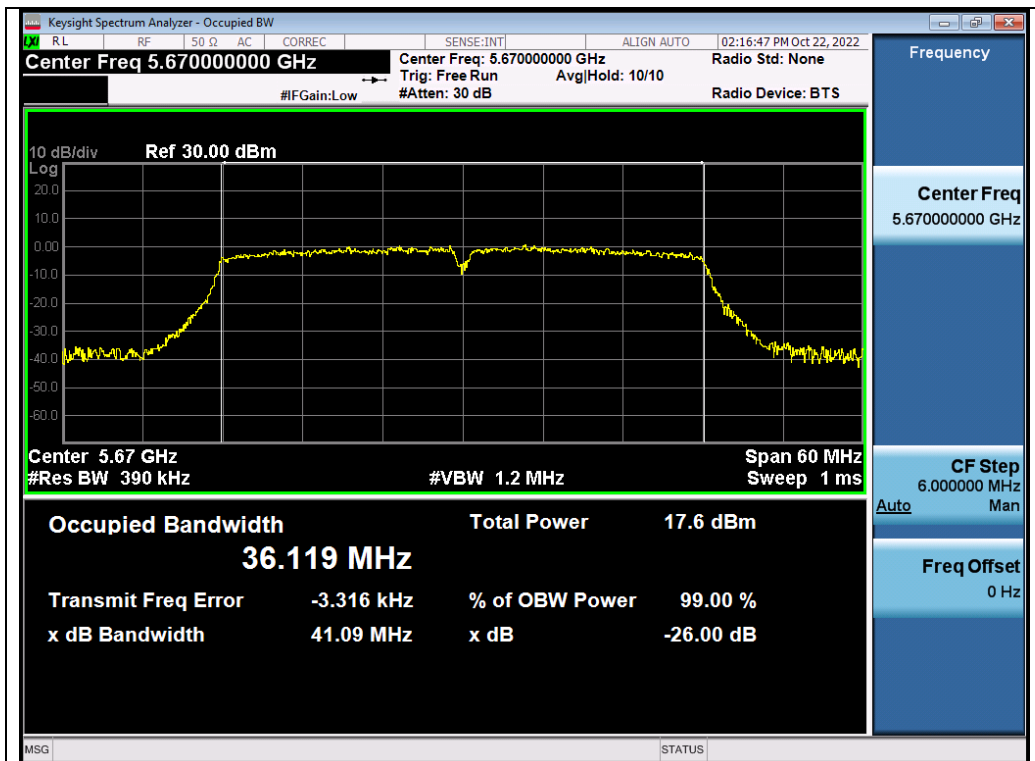


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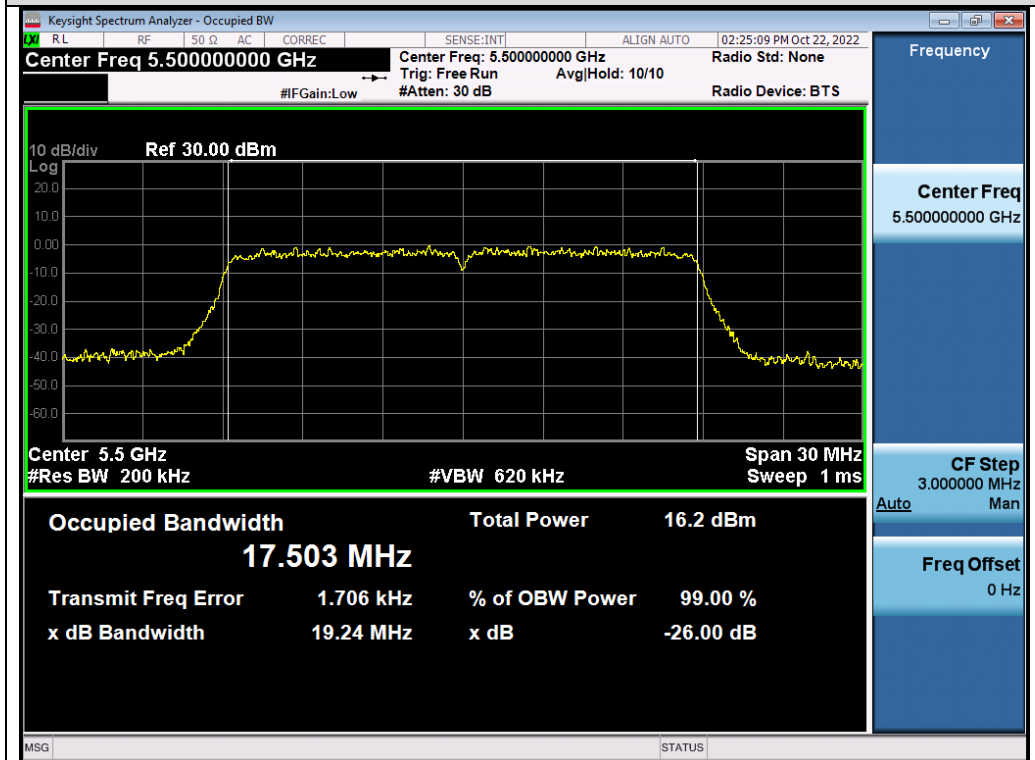


Test\_Graph\_802.11n40\_ANT1\_5590\_MCS0\_OBW

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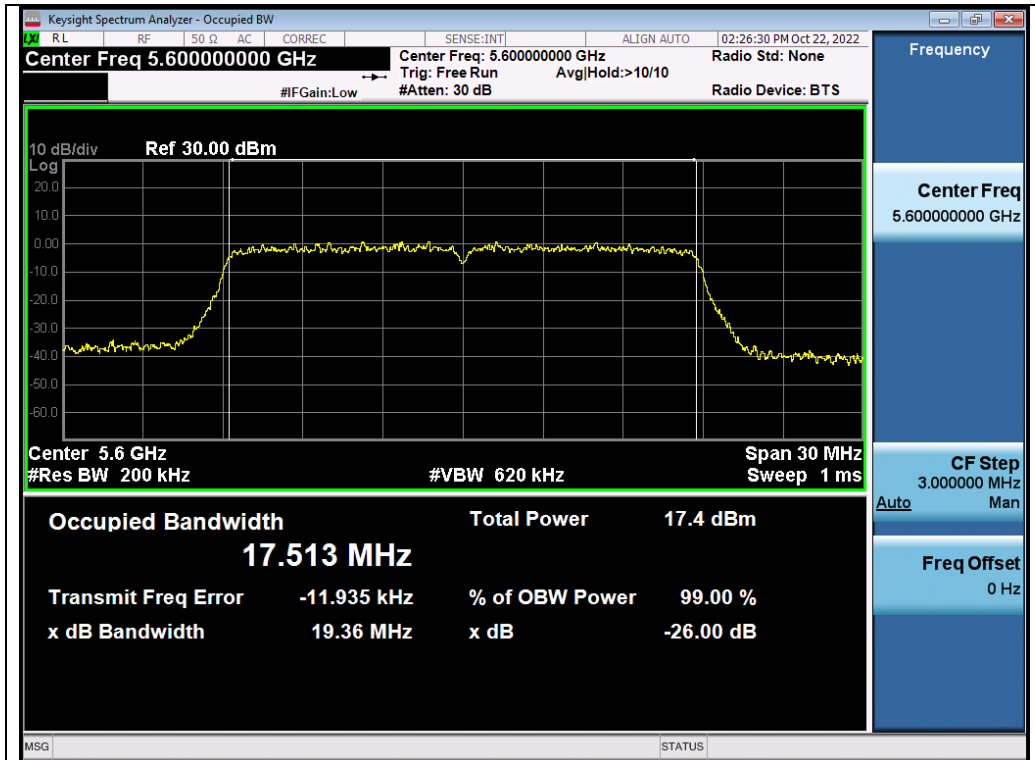


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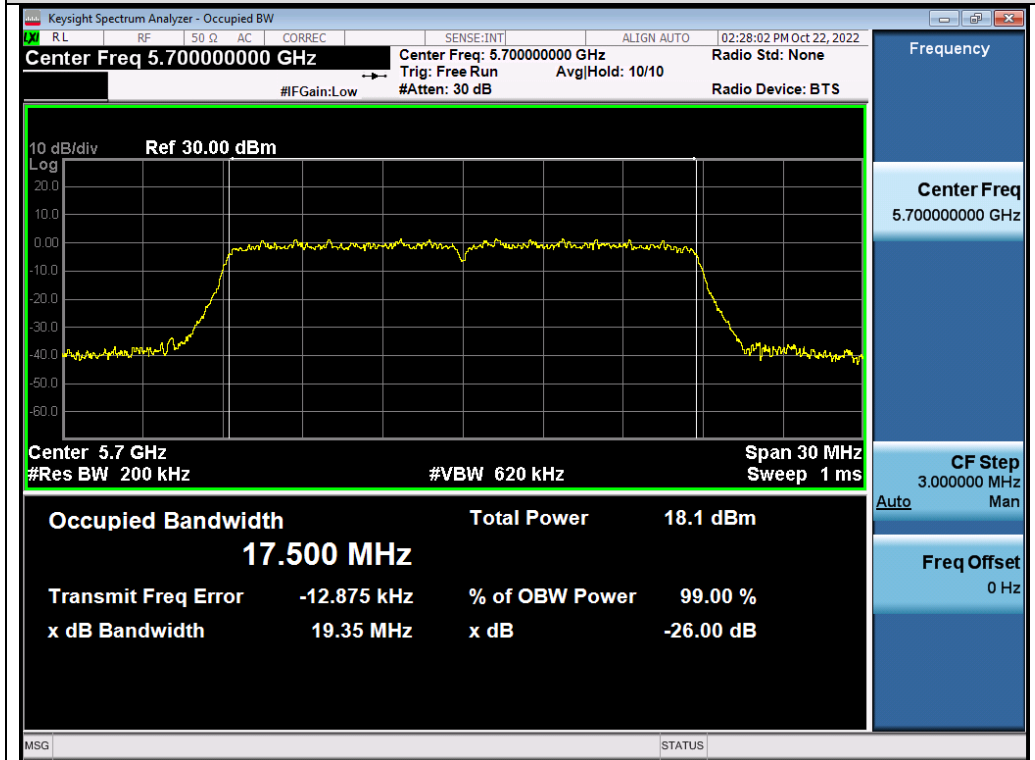


Test\_Graph\_802.11ac20\_ANT1\_5500\_MCS0\_OBW

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Test\_Graph\_802.11ac20\_ANT1\_5600\_MCS0\_OBW



Test\_Graph\_802.11ac20\_ANT1\_5700\_MCS9\_OBW

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