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# FCC Test Report

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Report No.: AGC00688230406FE06

**FCC ID** : 2AKC6-AX3010  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Wireless USB Adapter  
**BRAND NAME** : N/A  
**MODEL NAME** : AX3010, AX3008  
**APPLICANT** : SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD  
**DATE OF ISSUE** : May. 04, 2023  
**STANDARD(S)** : FCC Part 15 Subpart E §15.407  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>



### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May. 04, 2023	Valid	Initial Release

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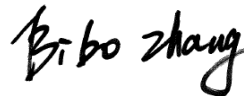
### 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
<b>Address</b>	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
<b>Manufacturer</b>	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
<b>Address</b>	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
<b>Factory</b>	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
<b>Address</b>	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
<b>Product Designation</b>	Wireless USB Adapter
<b>Brand Name</b>	N/A
<b>Test Model</b>	AX3010
<b>Series Model</b>	AX3008
<b>Declaration of Difference</b>	All the same except the model name
<b>Date of receipt of test item</b>	Apr. 11, 2023
<b>Date of test</b>	Apr. 11, 2023~May 04, 2023
<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



Bibo Zhang  
(Project Engineer)

May 04, 2023

Reviewed By



Calvin Liu  
(Reviewer)

May 04, 2023

Approved By



Max Zhang  
Authorized Officer

May 04, 2023

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

<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 type="checkbox"/> U-NII 2A: 5250MHz~5350MHz <input 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>Hardware Version</b>	V2.1
<b>Software Version</b>	V1.12
<b>Test Frequency Range</b>	For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5755~5795MHz For 802.11ac-VHT80: 5210MHz, 5775MHz
<b>Output Power</b>	IEEE 802.11a(HT20): 5.81dBm; IEEE 802.11n(HT20): 5.42dBm; IEEE802.11n(HT40): 5.63dBm; IEEE 802.11ac(VHT20): 5.13dBm; IEEE802.11ac(VHT40): 5.10dBm; IEEE802.11ac(VHT80): 5.32dBm; IEEE802.11ax(HE20): 4.95dBm; IEEE802.11ax(HE40): 6.25dBm; IEEE802.11ax(HE80): 5.49dBm
<b>Output Power_MIMO</b>	IEEE 802.11nHT(20):8.01dBm;IEEE802.11n(HT40):7.85dBm IEEE 802.11ac(VHT20):7.42dBm; IEEE802.11ac(VHT40):7.81dBm; IEEE802.11ac(VHT80):7.29dBm;IEEE802.11ax(HE20):7.25dBm; IEEE802.11ax(HE40):8.01dBm;IEEE802.11ax(HE80):7.80dBm
<b>Modulation</b>	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ax :(1024-QAM,256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDMA
<b>Data Rate</b>	802.11a:6/9/12/18/24/36/48/54Mbps; 802.11n:up to 300Mbps; 802.11ac:up to 866.6Mbps; 802.11ax:up to 1201Mbps
<b>Number of channels</b>	7 channels of U-NII-1 Band 8 channels of U- NII 3 Band
<b>Antenna Designation</b>	PIFA Antenna
<b>Antenna Gain</b>	Refer to Chapter 2.8 of the report.
<b>Power Supply</b>	DC 5V by PC

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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), 802.11ax (HE20):

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), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	--	--

For 5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

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) , 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80) , 802.11ax (HE80):

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: 2AKC6-AX3010** filing to comply with the FCC Part 15 requirements.

### 2.4. TEST METHODOLOGY

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 662911	662911 D01 Multiple Transmitter Output v02r01
5	KDB 789033	789033 D02 General U-NII Test Procedures New Rules v02r01

### 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

Standard Requirement
<p><b>15.203 requirement:</b> An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p>
<p><b>EUT Antenna:</b> The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna refer to Section 2.8 of the report</p>

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## 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 PIFA Antenna List (5GHz 2*2 MIMO)						
PIFA Antenna	5150 ~ 5250	2	20,40,80	4.44	5.46	8.47
	5725 ~ 5850	2	20,40,80	4.44	5.46	8.47

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

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT} + \text{Array Gain}$ , where Array Gain is as follows.

- For power spectral density (PSD) measurements on devices:

$$\text{Array Gain} = 10 \log(N_{ANT}/N_{SS}) \text{ dB} = 3.01;$$

- For power measurements on IEEE 802.1 devices:

$$\text{Array Gain} = 0 \text{ dB for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB or } 3 \text{ dB, whichever is less, for } 20 \text{ MHz channel widths with } N_{ANT} \geq 5.$$

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

### 3. TEST ENVIRONMENT

#### 3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

##### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

##### **IC-Registration No.: 24842 (CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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### 3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range (°C)	15 - 35	-20 - 50
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	DC 5V	--

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

### 3.4 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	$U_c = \pm 2.7$ %

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### 3.5 LIST OF EQUIPMENTS USED

#### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Aug. 04, 2022	Aug. 03, 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	N/A

#### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Power sensor	Aglient	U2021XA	MY54110007	Mar. 03, 2023	Mar. 02, 2024
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	N/A	N/A
Attenuator	ZHINAN	E-002	N/A	Sep. 01, 2022	Aug. 31, 2023
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHZ)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 21, 2023	Apr. 20, 2024
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 01, 2022	Aug. 31, 2023
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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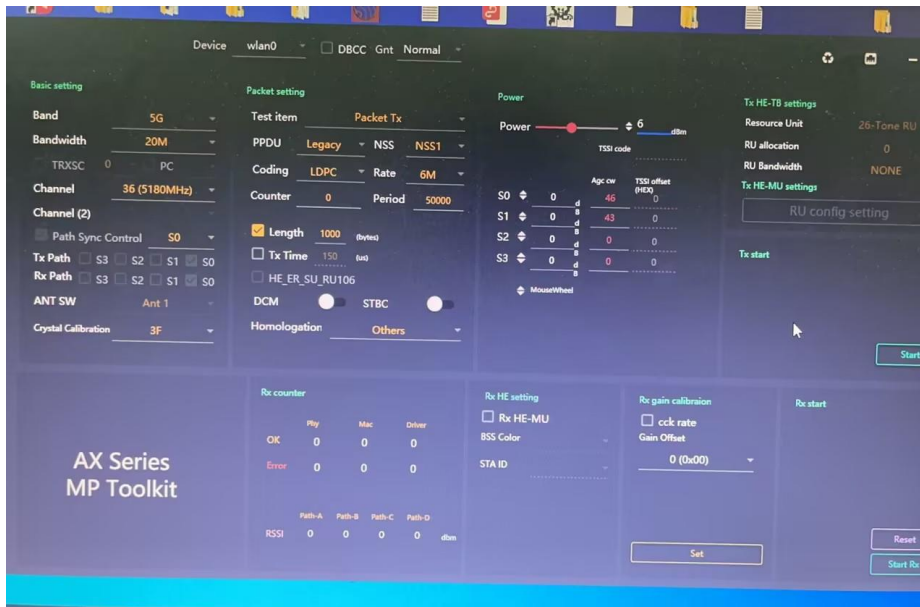
#### 4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate (Mbps)
802.11a/n/ac/ax20	Refer to Section 2.2	36,40, 44,48, 149,153, 157,161,165	OFDM/OFDMA	6Mbps/MCS0
802.11n/ac/ax40		38,46,151,159	OFDM/OFDMA	MCS0
802.11ac/ax80		42, 155	OFDM/OFDMA	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.

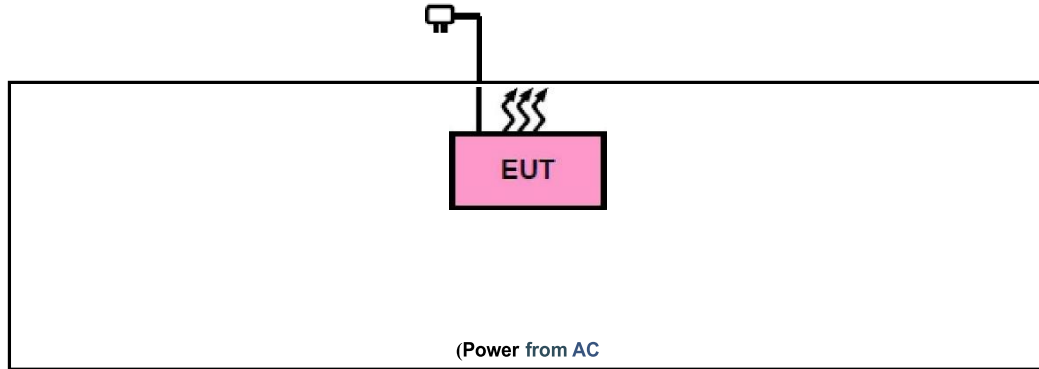
#### Software Setting



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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless USB Adapter	AX3010	2AKC6-AX3010	EUT

### 5.3. SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	§15.203	Antenna Equipment	Pass
2	§15.407(a/1/3)	RF Output Power	Pass
3	§15.407(e)	6dB Bandwidth Measurement	Pass
4	§2.1049	26dB bandwidth Measurement	Pass
5	§15.407(a/1/3)	Power Spectral Density	Pass
6	§15.407(b)(1/4)	Conducted Spurious Emission	Pass
7	§15.209,§15.407(b)(1/4)	Radiated Emission& Band Edge	Pass
8	§15.207	AC Power Line Conducted Emission	Pass

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## 6. RF OUTPUT POWER MEASUREMENT

### 6.1 MEASUREMENT LIMITS

Operation Band	EUT Category		LIMIT
U-NII-1	<input type="checkbox"/>	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p < 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	<input type="checkbox"/>	Fixed point-to-point Access Point	1 Watt (30 dBm)
	<input type="checkbox"/>	Indoor Access Point	1 Watt (30 dBm)
	<input checked="" type="checkbox"/>	Client devices	250mW (23.98 dBm)
U-NII-2A	/		250mW (23.98 dBm) or 11 dBm+10 log B*
U-NII-2C	/		250mW (23.98 dBm) or 11 dBm+10 log B*
U-NII-3	/		1 Watt (30 dBm)

Note: Where B is the 26dB emission bandwidth in MHz.

### 6.2 MEASUREMENT PROCEDURE

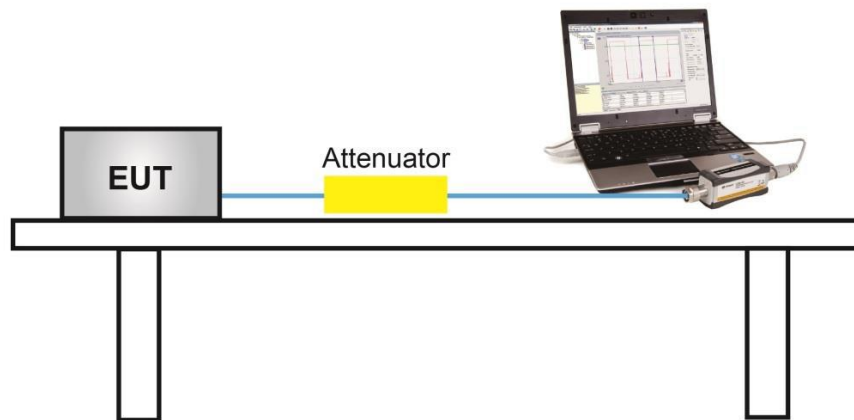
Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:

1. The testing follows the ANSI C63.10 Section 12.3.3.1
2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
3. The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
4. At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
5. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
6. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
7. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
8. Adjust the measurement in dBm by adding  $[10 \log (1 / D)]$ , where D is the duty cycle {e.g.,  $[10 \log (1 / 0.25)]$ , if the duty cycle is 25%}.
9. Record the test results in the report.

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### 6.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



### 6.4 MEASUREMENT RESULT

Test Data of Conducted Output Power for band 5.15-5.25 GHz-ANT 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	5.12	23.98	Pass
	5200	5.04	23.98	Pass
	5240	4.32	23.98	Pass
802.11n20	5180	5.15	23.98	Pass
	5200	4.99	23.98	Pass
	5240	4.98	23.98	Pass
802.11n40	5190	5.01	23.98	Pass
	5230	4.78	23.98	Pass
802.11ac20	5180	4.50	23.98	Pass
	5200	4.56	23.98	Pass
	5240	4.00	23.98	Pass
802.11ac40	5190	4.77	23.98	Pass
	5230	<b>5.10</b>	23.98	Pass
802.11ac80	5210	<b>5.32</b>	23.98	Pass
802.11ax20	5180	4.32	23.98	Pass
	5200	4.17	23.98	Pass
	5240	4.08	23.98	Pass
802.11ax40	5190	4.68	23.98	Pass
	5230	4.56	23.98	Pass
802.11ax80	5210	<b>5.49</b>	23.98	Pass

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Test Data of Conducted Output Power for band 5.15-5.25 GHz-ANT 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	4.75	23.98	Pass
	5200	4.93	23.98	Pass
	5240	3.93	23.98	Pass
802.11n20	5180	4.73	23.98	Pass
	5200	<b>5.00</b>	23.98	Pass
	5240	4.59	23.98	Pass
802.11n40	5190	4.66	23.98	Pass
	5230	4.71	23.98	Pass
802.11ac20	5180	4.32	23.98	Pass
	5200	3.82	23.98	Pass
	5240	3.87	23.98	Pass
802.11ac40	5190	4.21	23.98	Pass
	5230	4.47	23.98	Pass
802.11ac80	5210	2.92	23.98	Pass
802.11ax20	5180	4.15	23.98	Pass
	5200	3.73	23.98	Pass
	5240	3.36	23.98	Pass
802.11ax40	5190	4.14	23.98	Pass
	5230	4.04	23.98	Pass
802.11ax80	5210	2.51	23.98	Pass

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Test Data of Conducted Output Power for band 5.725-5.850 GHz-ANT 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	3.16	30	Pass
	5785	4.81	30	Pass
	5825	4.26	30	Pass
802.11n20	5745	4.34	30	Pass
	5785	4.42	30	Pass
	5825	4.29	30	Pass
802.11n40	5755	4.61	30	Pass
	5795	4.63	30	Pass
802.11ac20	5745	4.13	30	Pass
	5785	3.99	30	Pass
	5825	2.96	30	Pass
802.11ac40	5755	3.92	30	Pass
	5795	4.01	30	Pass
802.11ac80	5775	3.18	30	Pass
802.11ax20	5745	3.95	30	Pass
	5785	3.20	30	Pass
	5825	3.31	30	Pass
802.11ax40	5755	5.25	30	Pass
	5795	4.49	30	Pass
802.11ax80	5775	2.89	30	Pass

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**Test Data of Conducted Output Power for band 5.725-5.850 GHz-ANT 2**

Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	4.14	30	Pass
	5785	3.38	30	Pass
	5825	3.50	30	Pass
802.11n20	5745	4.28	30	Pass
	5785	4.97	30	Pass
	5825	3.98	30	Pass
802.11n40	5755	4.40	30	Pass
	5795	4.63	30	Pass
802.11ac20	5745	4.41	30	Pass
	5785	4.05	30	Pass
	5825	3.11	30	Pass
802.11ac40	5755	4.51	30	Pass
	5795	4.05	30	Pass
802.11ac80	5775	3.32	30	Pass
802.11ax20	5745	4.00	30	Pass
	5785	3.81	30	Pass
	5825	2.95	30	Pass
802.11ax40	5755	4.30	30	Pass
	5795	4.04	30	Pass
802.11ax80	5775	4.77	30	Pass

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Test Data of Conducted Output Power for band 5.15-5.25 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5180	7.96	23.98	Pass
	5200	<b>8.01</b>	23.98	Pass
	5240	7.80	23.98	Pass
802.11n40	5190	7.85	23.98	Pass
	5230	7.76	23.98	Pass
802.11ac20	5180	7.42	23.98	Pass
	5200	7.22	23.98	Pass
	5240	6.95	23.98	Pass
802.11ac40	5190	7.51	23.98	Pass
	5230	7.81	23.98	Pass
802.11ac80	5210	7.29	23.98	Pass
802.11ax20	5180	7.25	23.98	Pass
	5200	6.97	23.98	Pass
	5240	6.75	23.98	Pass
802.11ax40	5190	7.96	23.98	Pass
	5230	8.01	23.98	Pass
802.11ax80	5210	7.80	23.98	Pass

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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	7.32	30	Pass
	5785	7.71	30	Pass
	5825	7.15	30	Pass
802.11n40	5755	7.52	30	Pass
	5795	7.64	30	Pass
802.11ac20	5745	7.28	30	Pass
	5785	7.03	30	Pass
	5825	6.05	30	Pass
802.11ac40	5755	7.24	30	Pass
	5795	7.04	30	Pass
802.11ac80	5775	6.26	30	Pass
802.11ax20	5745	6.99	30	Pass
	5785	6.53	30	Pass
	5825	6.14	30	Pass
802.11ax40	5755	7.81	30	Pass
	5795	7.28	30	Pass
802.11ax80	5775	6.94	30	Pass

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## 7. 6DB&26DB BANDWIDTH MEASUREMENT

### 7.1 MEASUREMENT LIMITS

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

### 7.2 MEASUREMENT PROCEDURE

7.2.1 -6dB bandwidth (DTS bandwidth) Test setting:

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.

7.2.2 99% occupied bandwidth test setting:

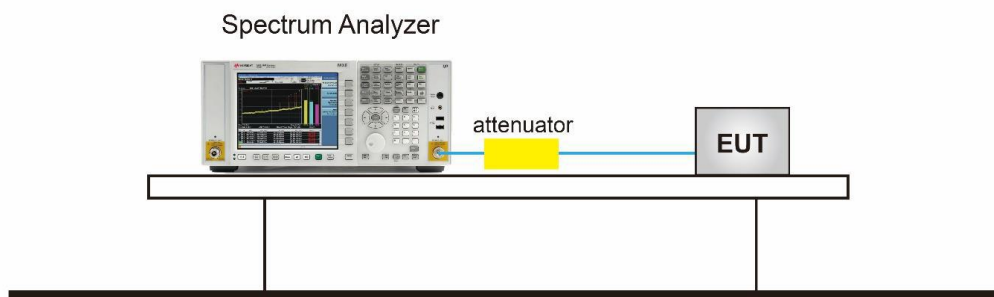
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel  
The nominal IF filter bandwidth (3 dB RBW) shall 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.

7.2.3 -26dB Bandwidth test setting:

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.

### 7.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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### 7.4 MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz-ANT 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.656	21.748	N/A	Pass
	5200	16.651	21.769	N/A	Pass
	5240	16.623	21.841	N/A	Pass
802.11n20	5180	17.761	22.364	N/A	Pass
	5200	17.776	22.396	N/A	Pass
	5240	17.783	22.175	N/A	Pass
802.11n40	5190	36.493	43.483	N/A	Pass
	5230	36.441	42.861	N/A	Pass
802.11ac20	5180	17.788	22.560	N/A	Pass
	5200	17.780	22.318	N/A	Pass
	5240	17.799	22.673	N/A	Pass
802.11ac40	5190	36.513	44.514	N/A	Pass
	5230	36.485	43.270	N/A	Pass
802.11ac80	5210	75.926	83.707	N/A	Pass
802.11ax20	5180	18.965	22.593	N/A	Pass
	5200	18.968	22.573	N/A	Pass
	5240	18.961	22.435	N/A	Pass
802.11ax40	5190	37.962	42.613	N/A	Pass
	5230	37.894	42.163	N/A	Pass
802.11ax80	5210	77.244	80.109	N/A	Pass

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Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz-ANT 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.623	21.786	N/A	Pass
	5200	16.610	21.792	N/A	Pass
	5240	16.632	21.694	N/A	Pass
802.11n20	5180	17.772	22.299	N/A	Pass
	5200	17.772	22.460	N/A	Pass
	5240	17.776	22.294	N/A	Pass
802.11n40	5190	36.415	42.818	N/A	Pass
	5230	36.462	42.765	N/A	Pass
802.11ac20	5180	17.811	22.497	N/A	Pass
	5200	17.767	22.231	N/A	Pass
	5240	17.763	22.475	N/A	Pass
802.11ac40	5190	36.505	43.983	N/A	Pass
	5230	36.523	44.210	N/A	Pass
802.11ac80	5210	75.887	83.461	N/A	Pass
802.11ax20	5180	18.957	22.459	N/A	Pass
	5200	18.952	22.313	N/A	Pass
	5240	18.954	22.681	N/A	Pass
802.11ax40	5190	38.011	42.745	N/A	Pass
	5230	37.876	42.857	N/A	Pass
802.11ax80	5210	77.294	80.135	N/A	Pass

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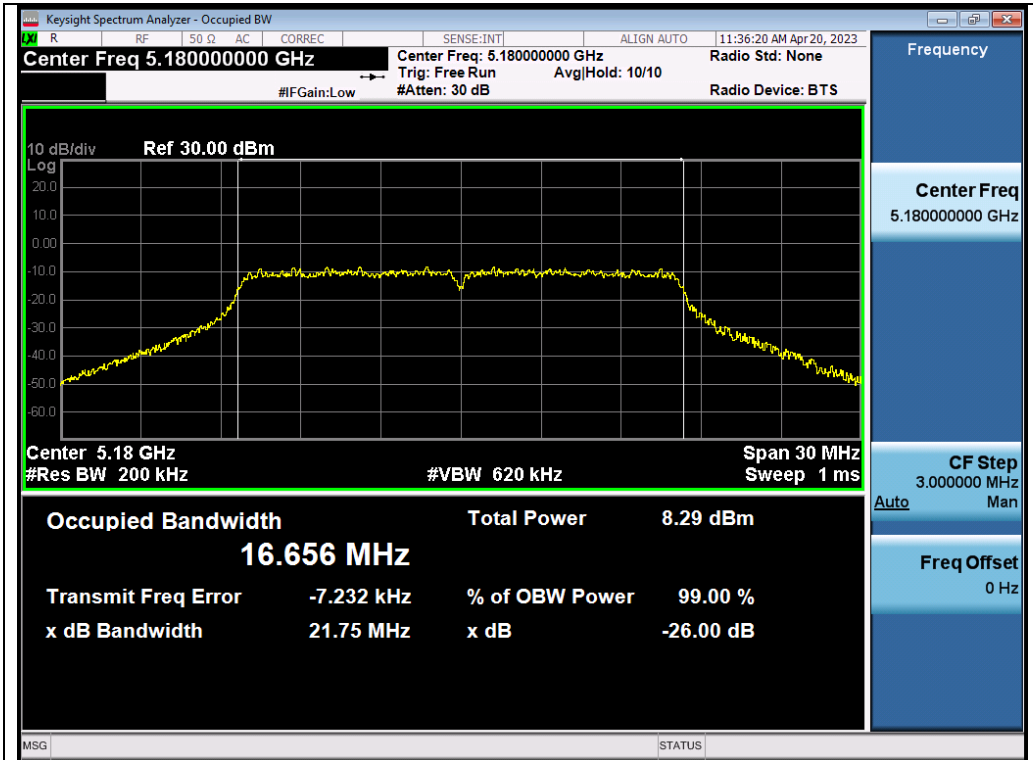
Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-ANT 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.643	16.352	0.5	Pass
	5785	16.627	16.379	0.5	Pass
	5825	16.651	16.333	0.5	Pass
802.11n20	5745	17.773	17.584	0.5	Pass
	5785	17.776	17.540	0.5	Pass
	5825	17.767	17.601	0.5	Pass
802.11n40	5755	36.452	36.305	0.5	Pass
	5795	36.458	36.444	0.5	Pass
802.11ac20	5745	17.799	17.530	0.5	Pass
	5785	17.798	17.587	0.5	Pass
	5825	17.817	17.556	0.5	Pass
802.11ac40	5755	36.523	36.447	0.5	Pass
	5795	36.496	36.462	0.5	Pass
802.11ac80	5775	75.913	76.399	0.5	Pass
802.11ax20	5180	18.959	18.726	0.5	Pass
	5200	18.946	18.666	0.5	Pass
	5240	18.944	18.617	0.5	Pass
802.11ax40	5190	37.930	37.953	0.5	Pass
	5230	37.893	37.643	0.5	Pass
802.11ax80	5210	77.210	77.212	0.5	Pass

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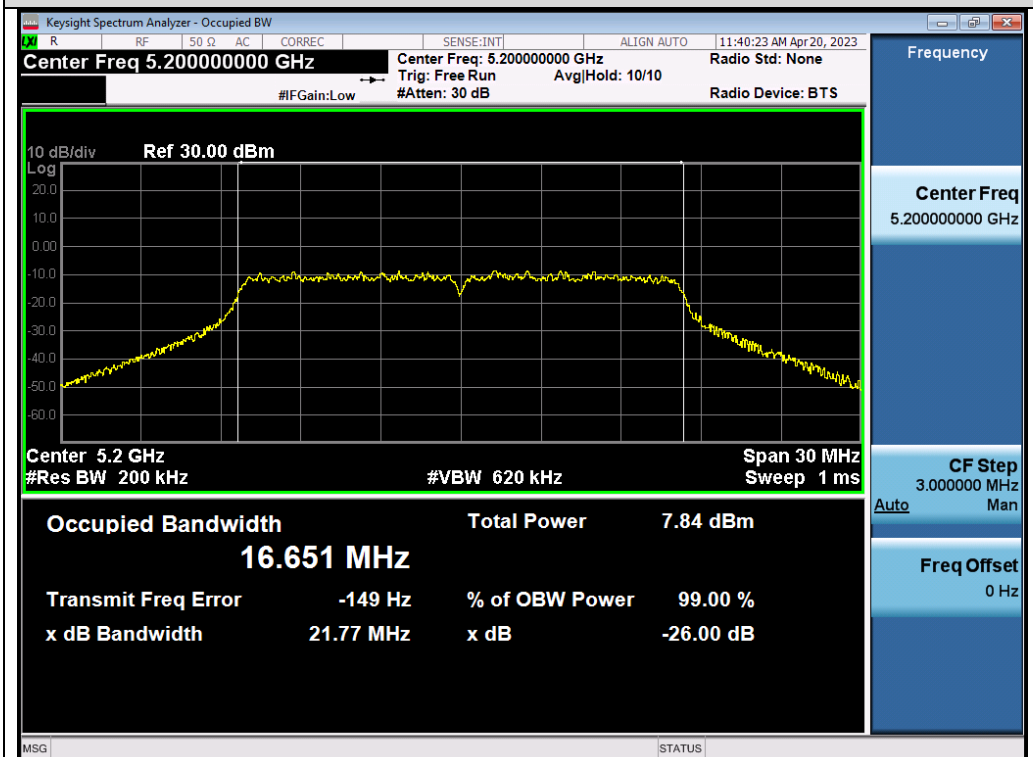
Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-ANT 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.657	16.342	0.5	Pass
	5785	16.635	16.345	0.5	Pass
	5825	16.650	16.364	0.5	Pass
802.11n20	5745	17.783	17.595	0.5	Pass
	5785	17.765	17.592	0.5	Pass
	5825	17.756	17.580	0.5	Pass
802.11n40	5755	36.437	36.461	0.5	Pass
	5795	36.431	36.439	0.5	Pass
802.11ac20	5745	17.803	17.576	0.5	Pass
	5785	17.812	17.590	0.5	Pass
	5825	17.784	17.546	0.5	Pass
802.11ac40	5755	36.503	36.449	0.5	Pass
	5795	36.528	36.446	0.5	Pass
802.11ac80	5775	75.847	76.349	0.5	Pass
802.11ax20	5180	18.949	18.738	0.5	Pass
	5200	18.966	18.789	0.5	Pass
	5240	18.947	18.532	0.5	Pass
802.11ax40	5190	37.845	37.920	0.5	Pass
	5230	37.982	37.603	0.5	Pass
802.11ax80	5210	77.256	77.578	0.5	Pass

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

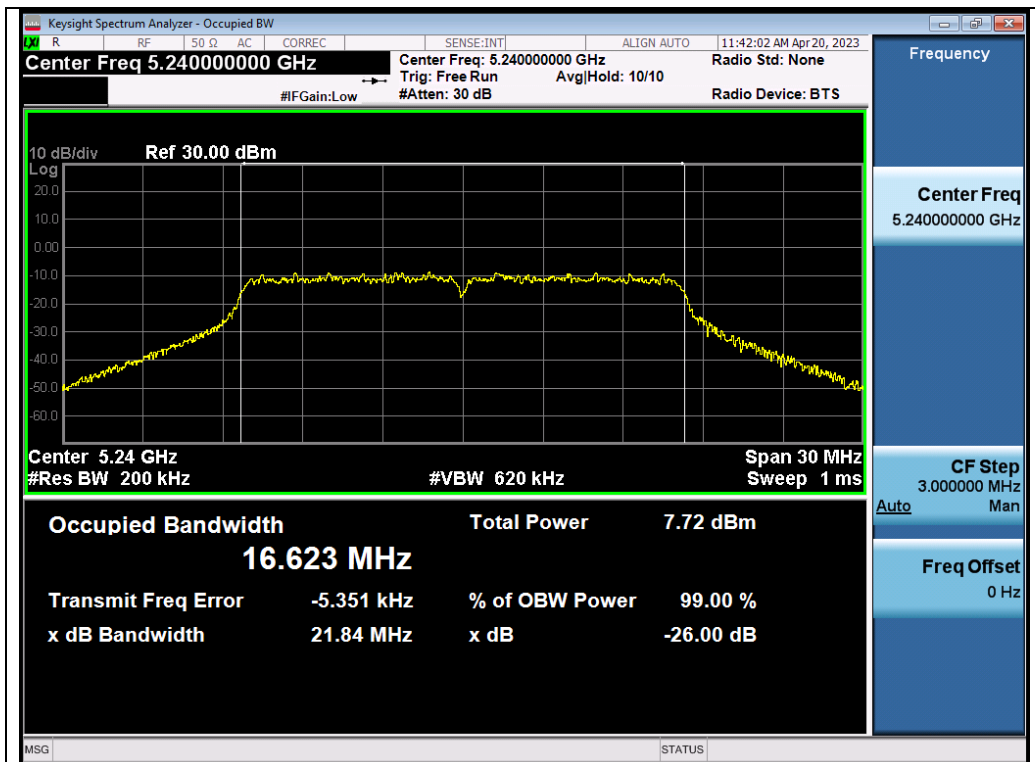


Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_OBW

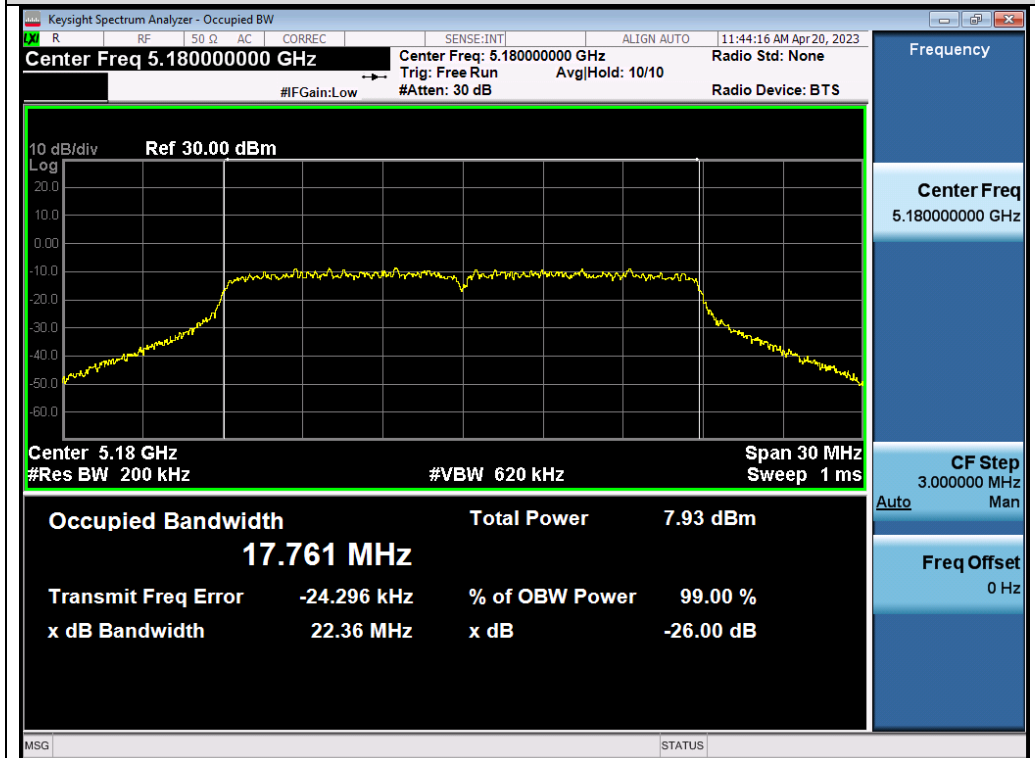


Test\_Graph\_802.11a\_ANT1\_5200\_6Mbps\_OBW

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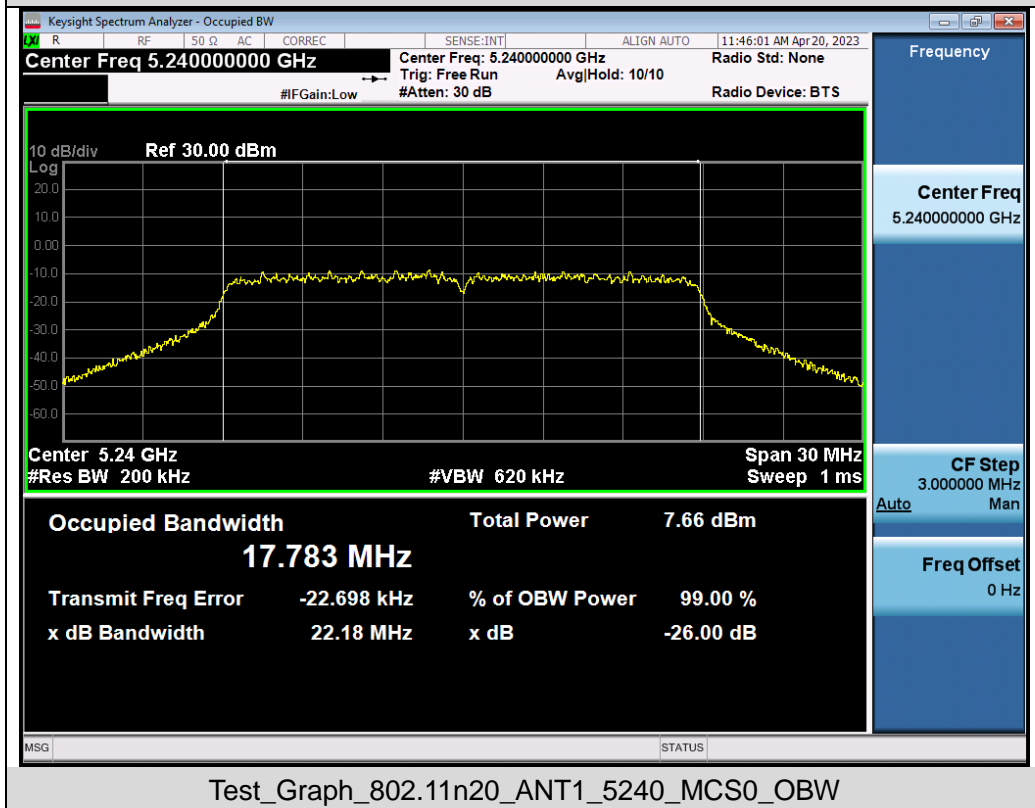
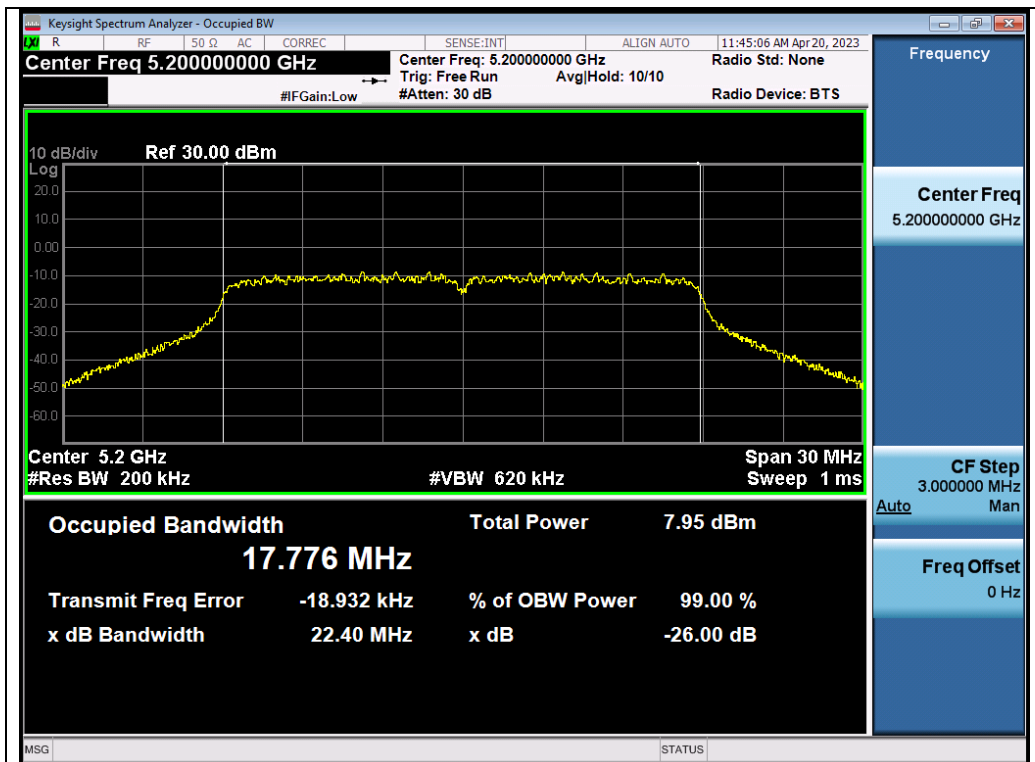
Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_OBW



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

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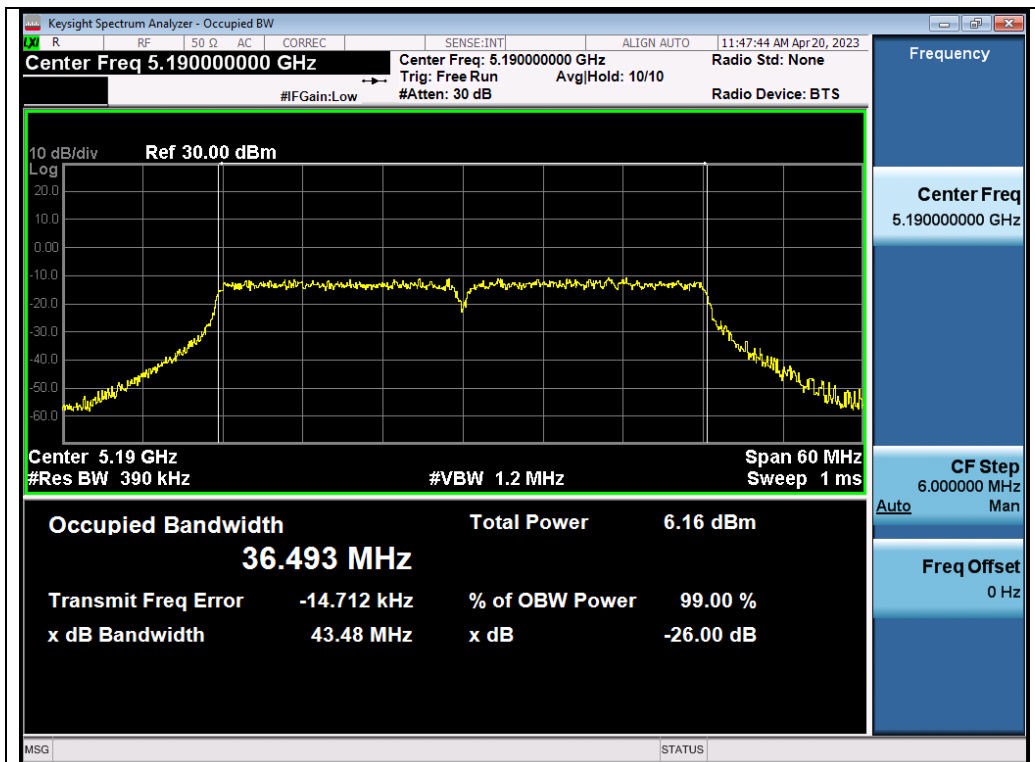




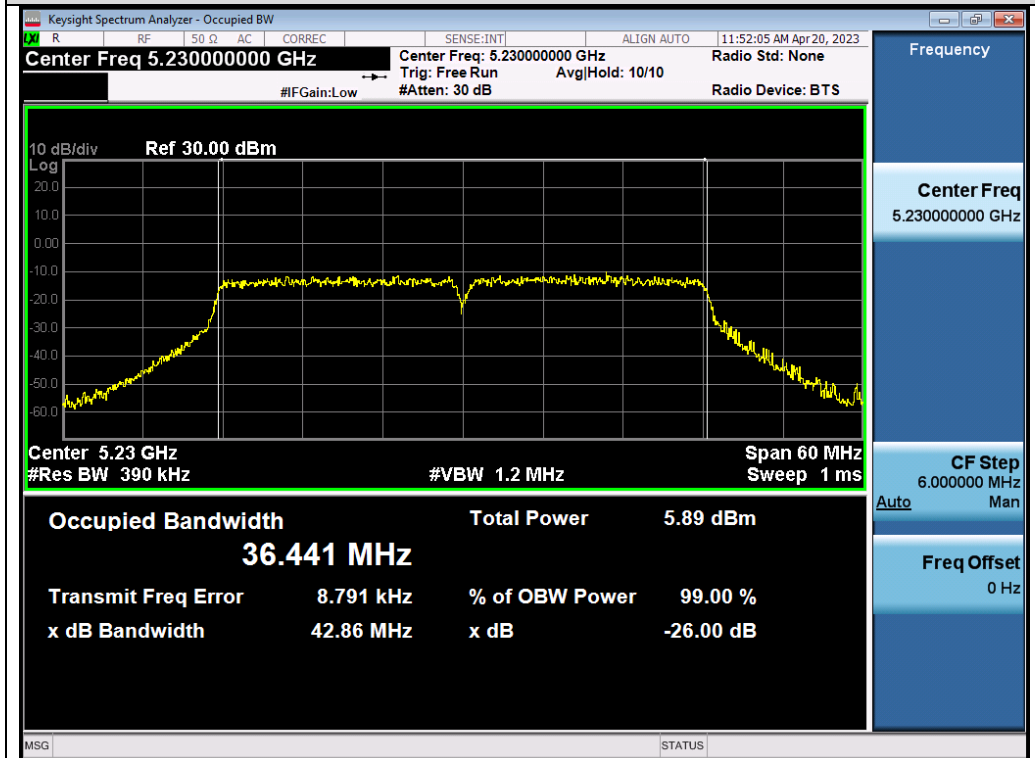
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Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



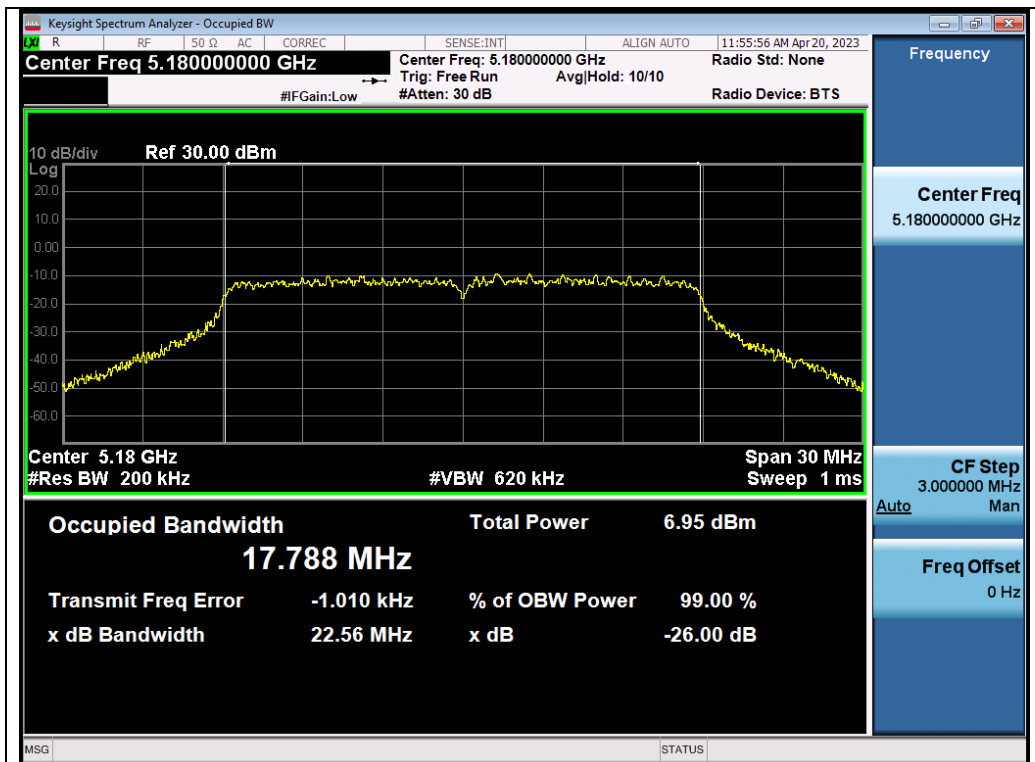


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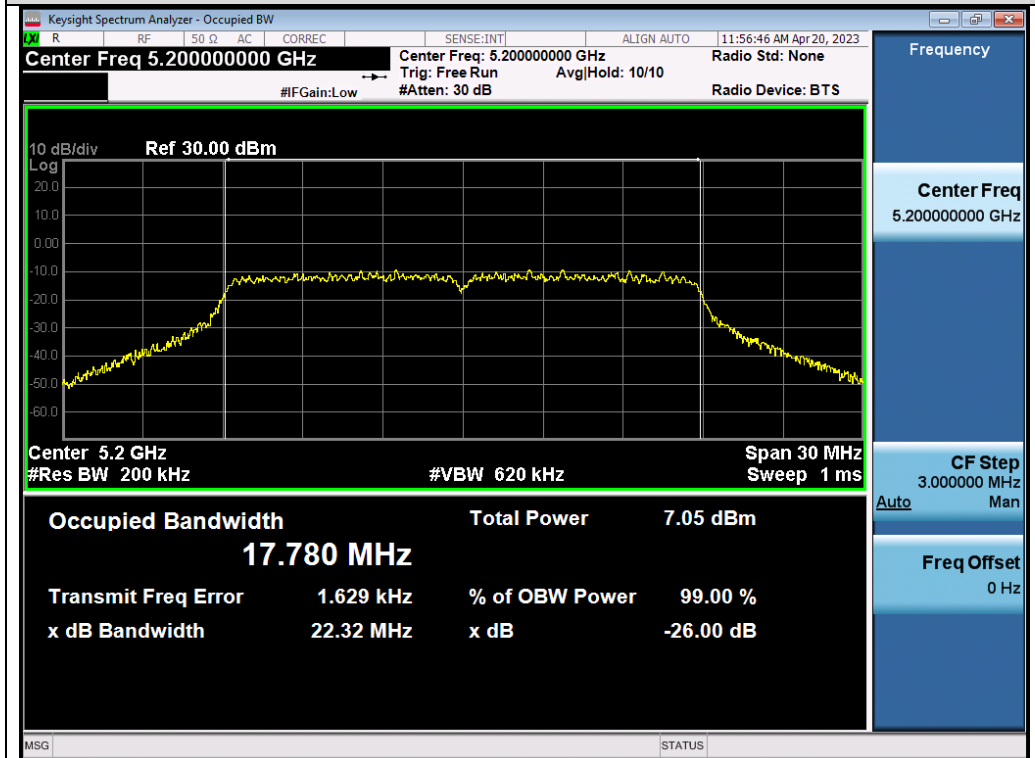


Test\_Graph\_802.11n40\_ANT1\_5230\_MCS0\_OBW

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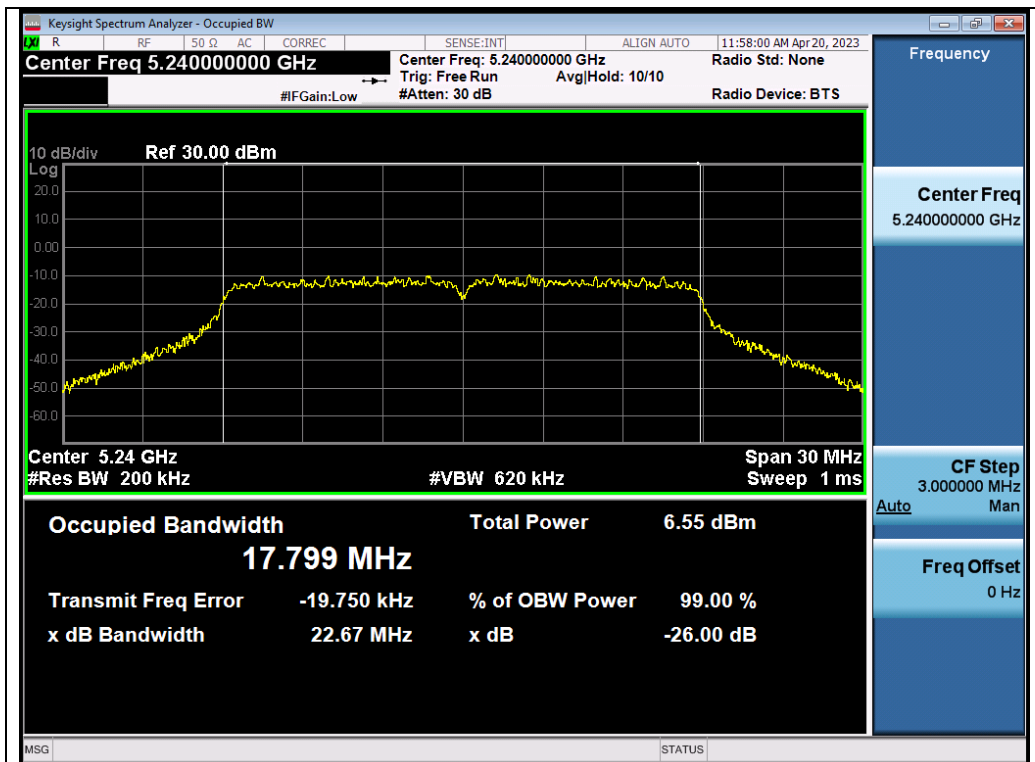


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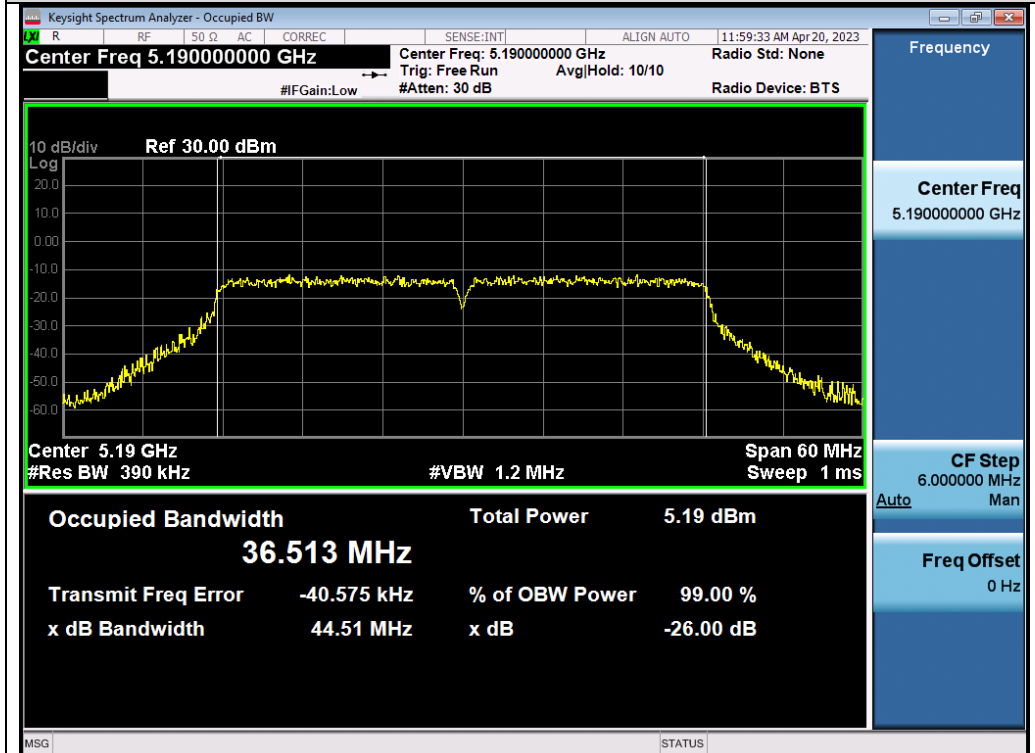


Test\_Graph\_802.11ac20\_ANT1\_5200\_MCS0\_OBW

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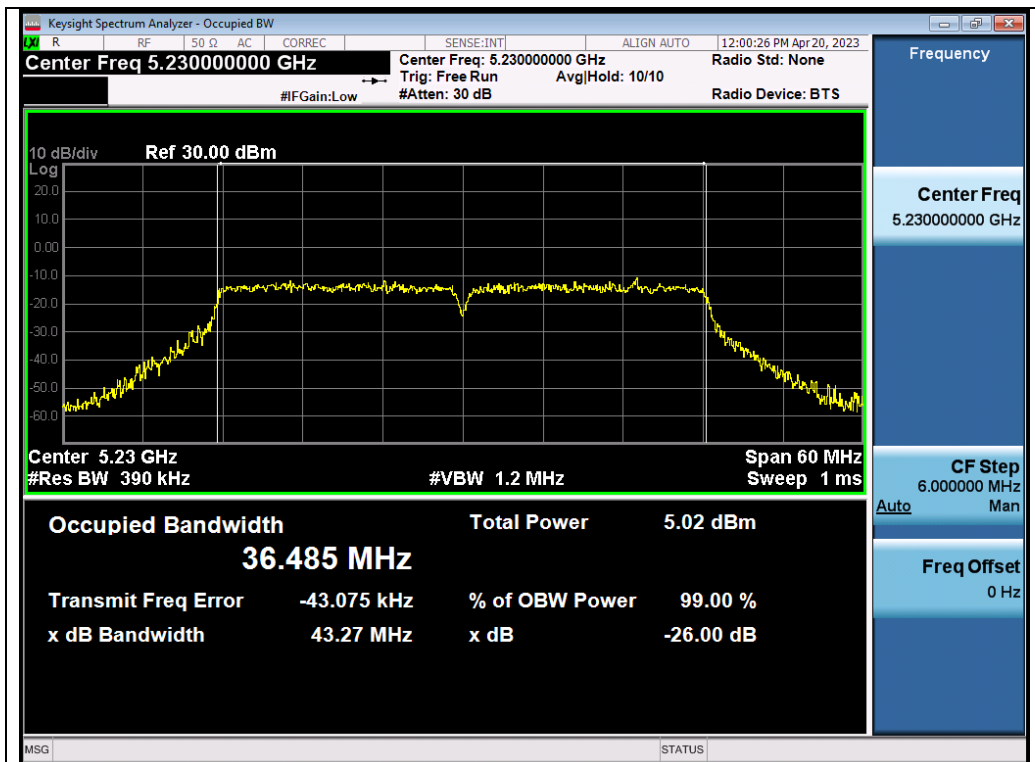


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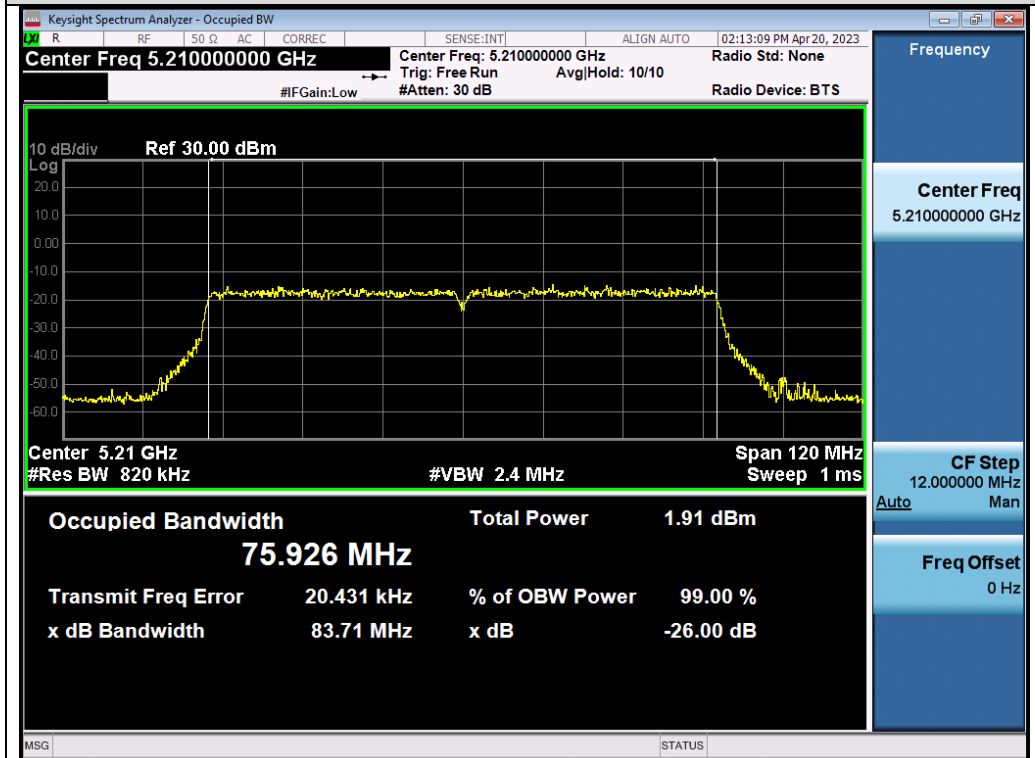


Test\_Graph\_802.11ac40\_ANT1\_5190\_MCS9\_OBW

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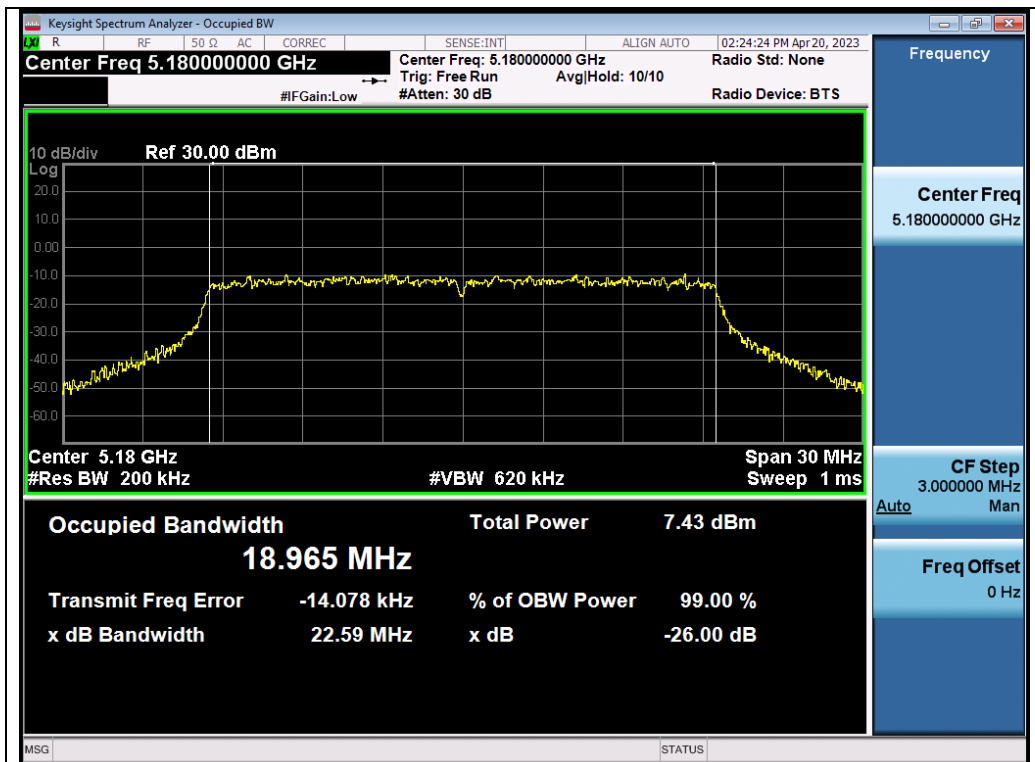


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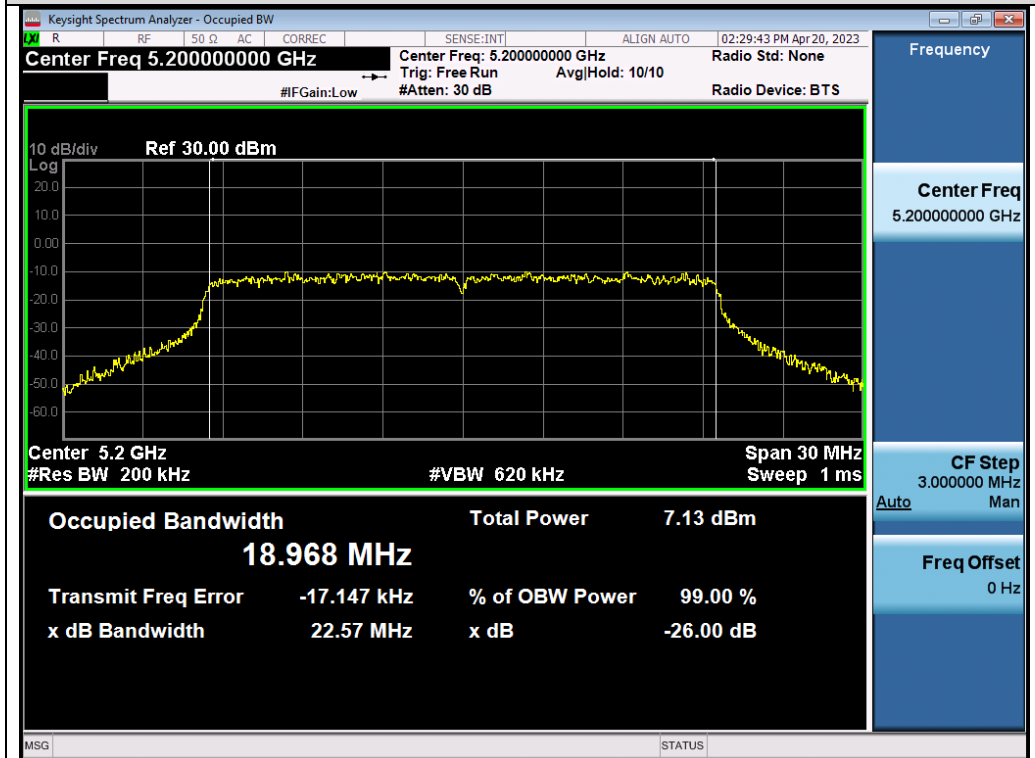


Test\_Graph\_802.11ac80\_ANT1\_5210\_MCS9\_OBW

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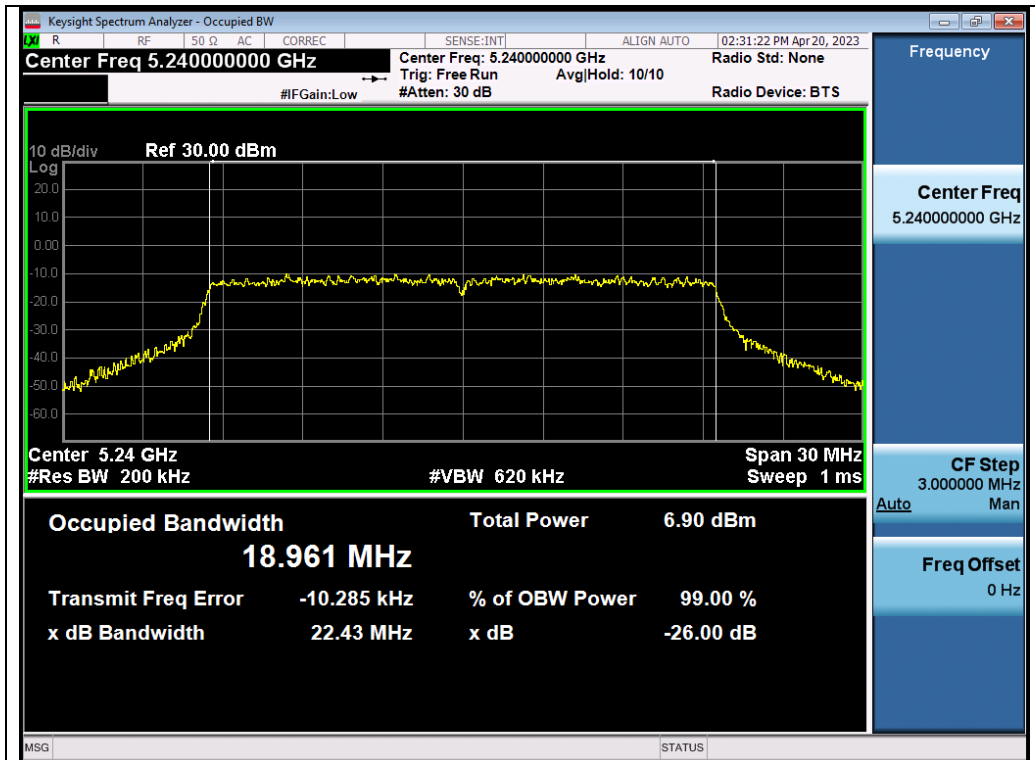
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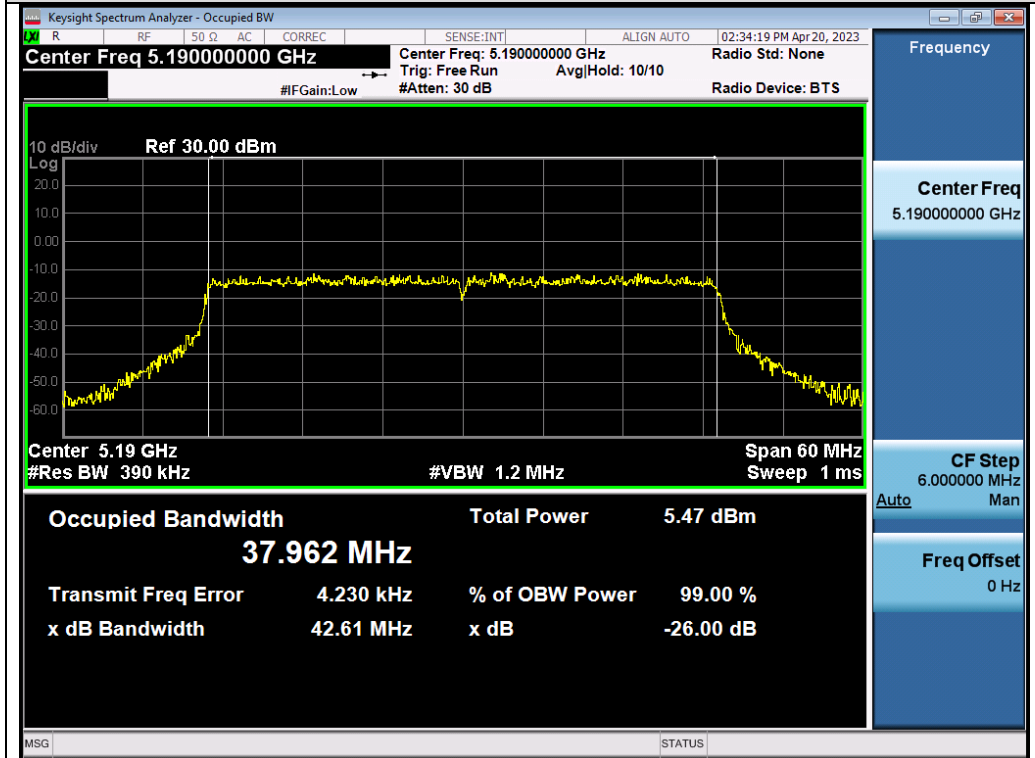
Test\_Graph\_802.11ax20\_ANT1\_5200\_MCS0\_OBW

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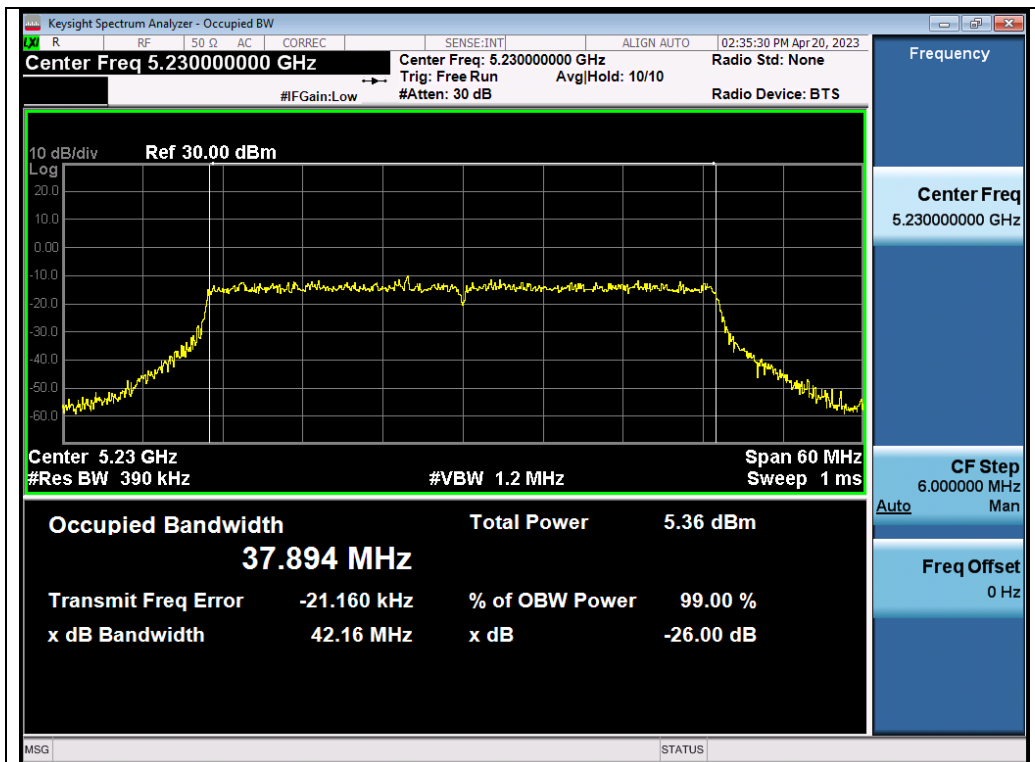


Test\_Graph\_802.11ax20\_ANT1\_5240\_MCS0\_OBW

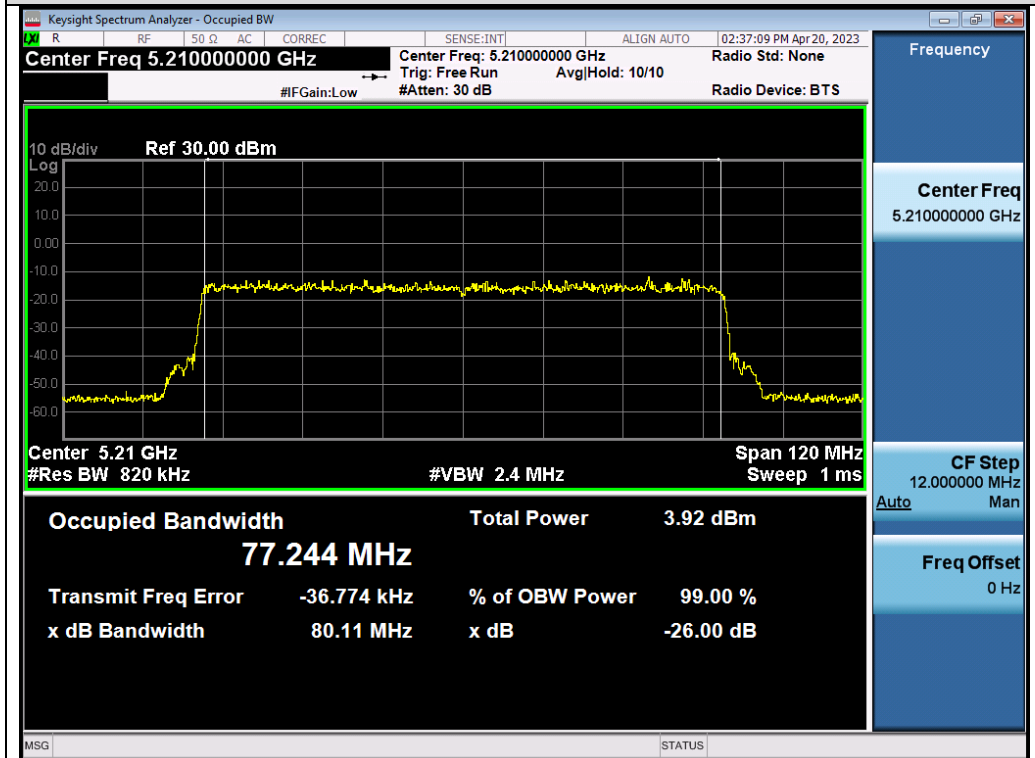


Test\_Graph\_802.11ax40\_ANT1\_5190\_MCS0\_OBW

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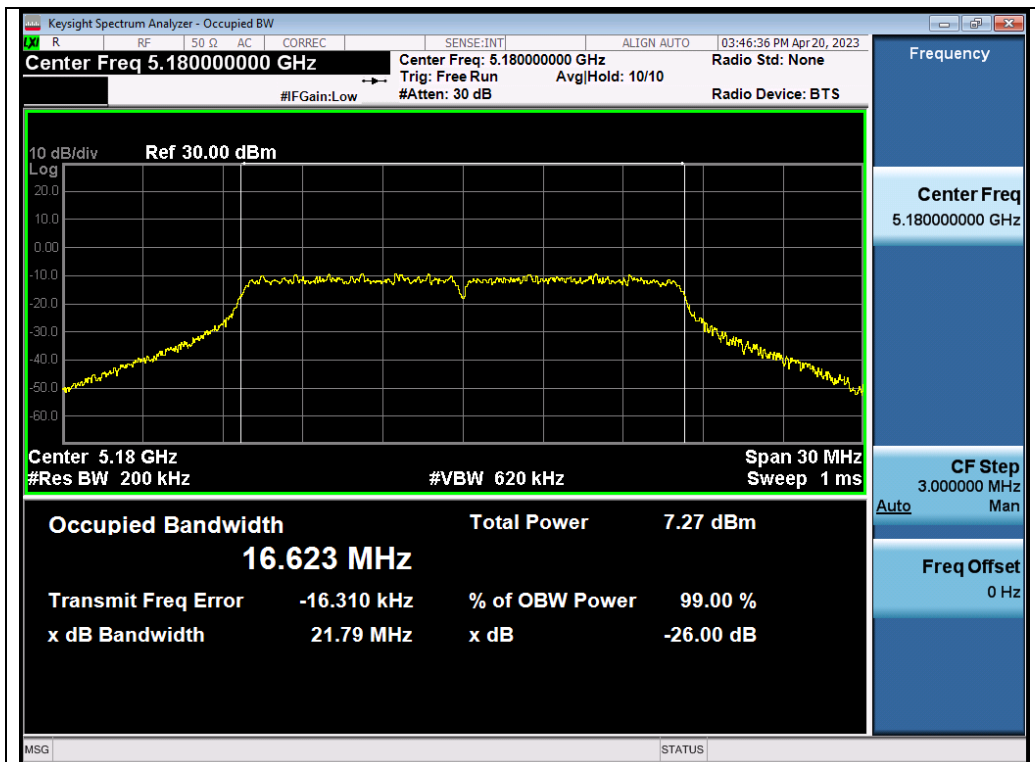
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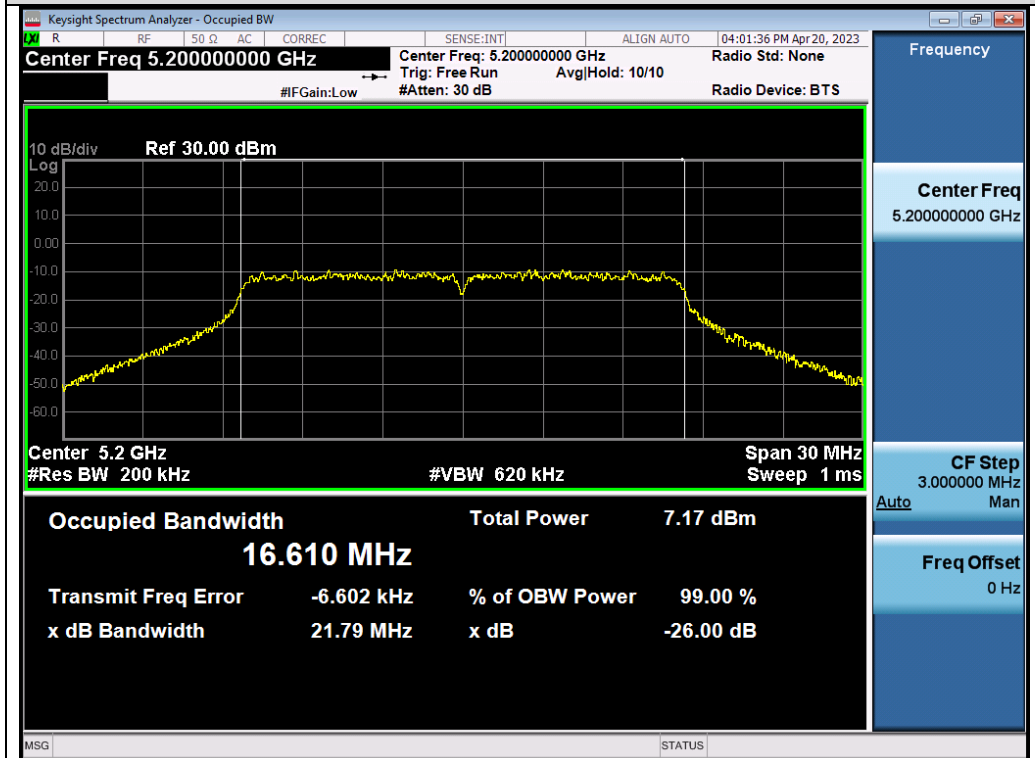
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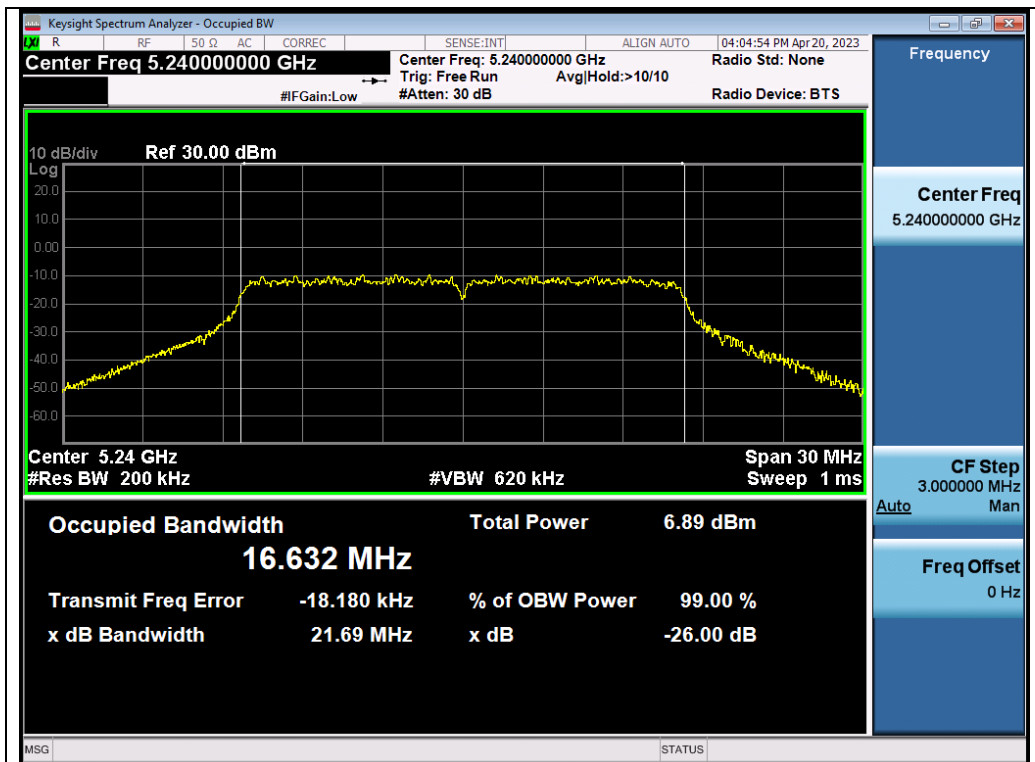


Test\_Graph\_802.11a\_ANT2\_5180\_6Mbps\_OBW

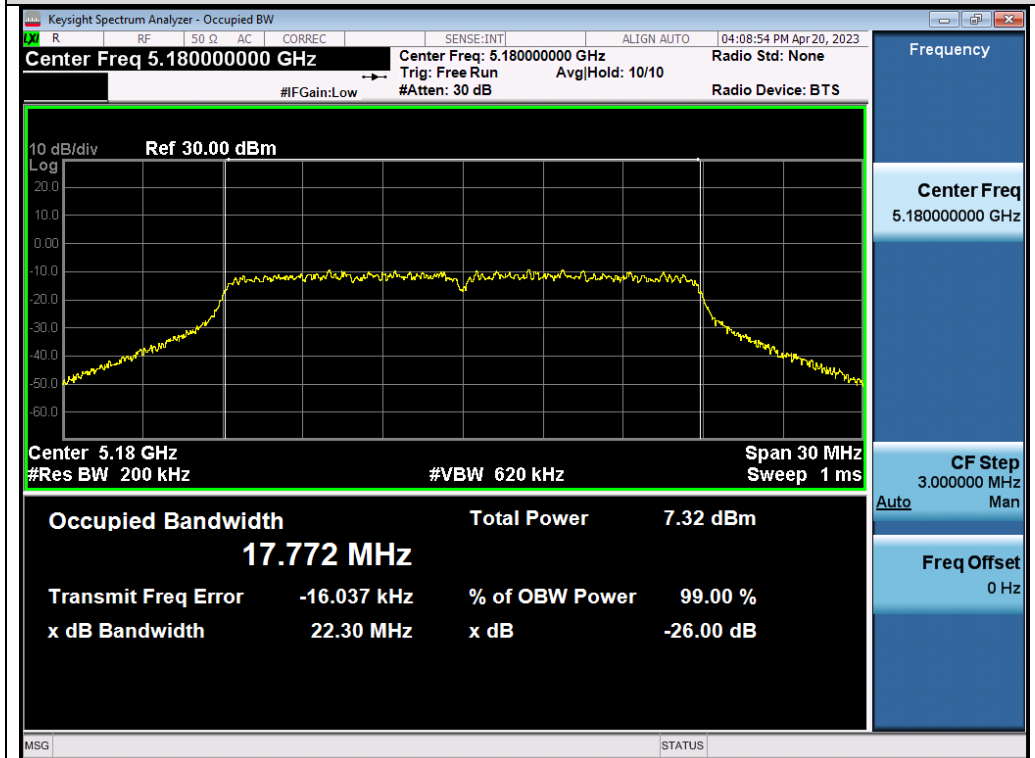


Test\_Graph\_802.11a\_ANT2\_5200\_6Mbps\_OBW

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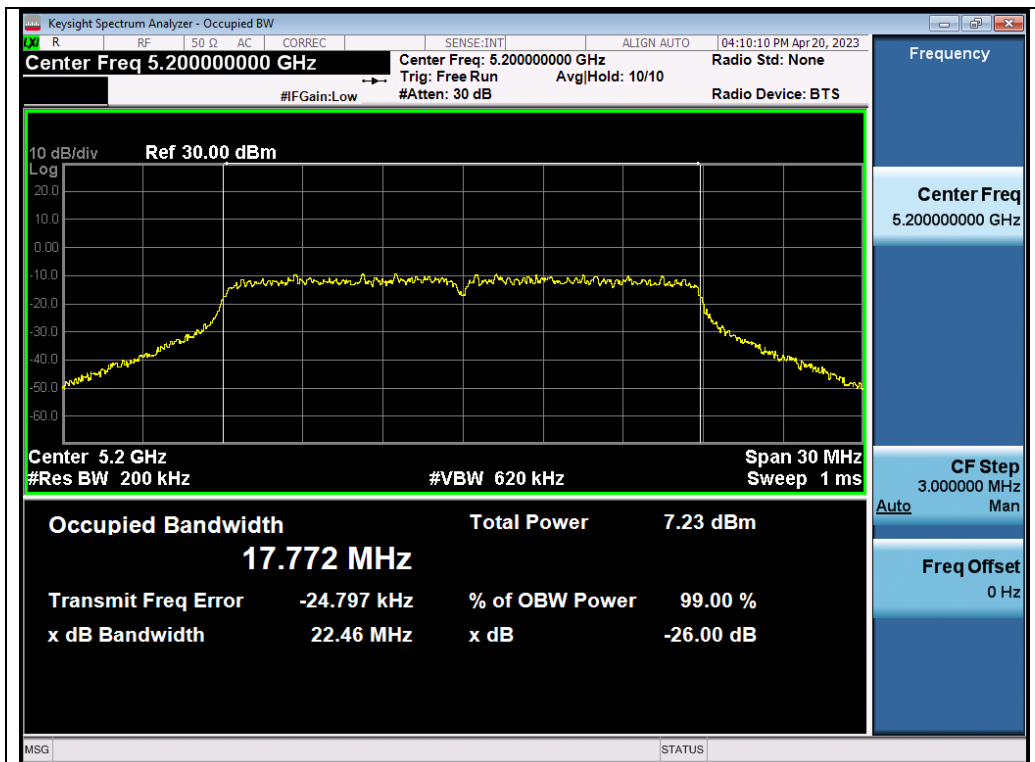


Test\_Graph\_802.11a\_ANT2\_5240\_6Mbps\_OBW

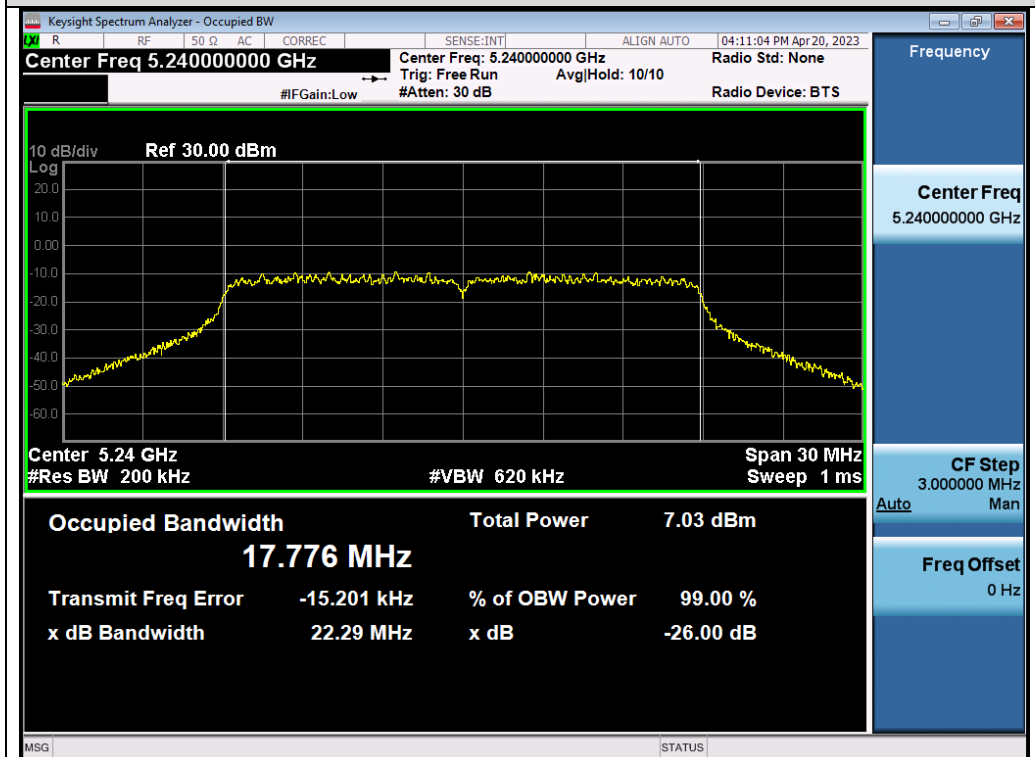


Test\_Graph\_802.11n20\_ANT2\_5180\_MCS0\_OBW

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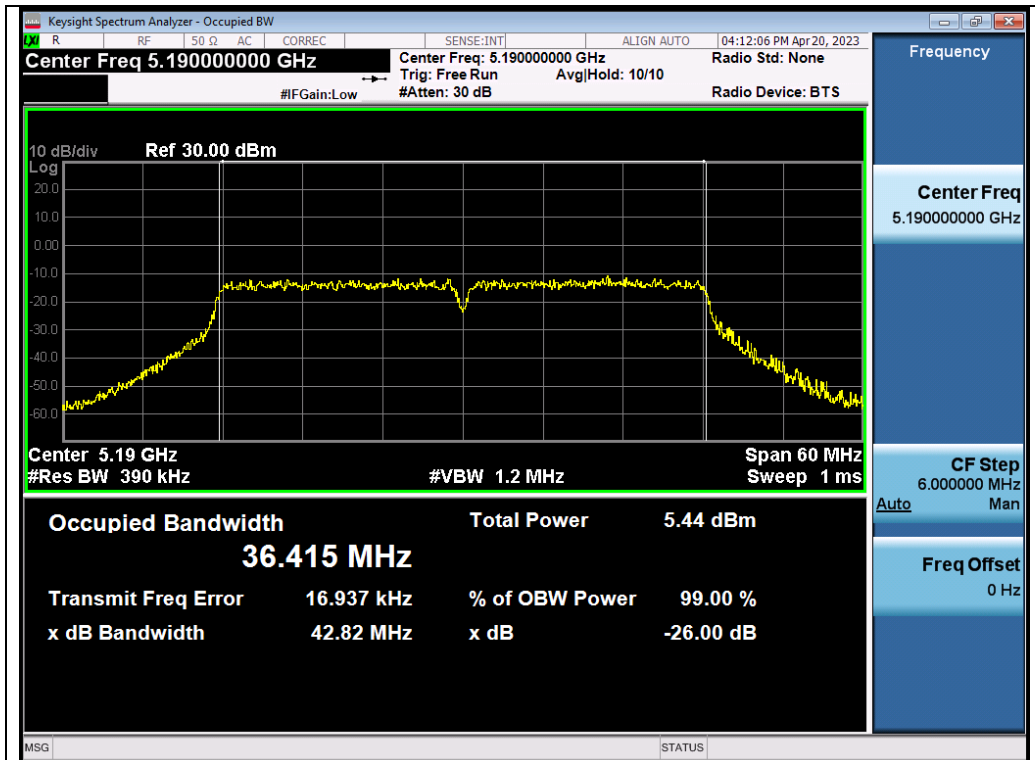


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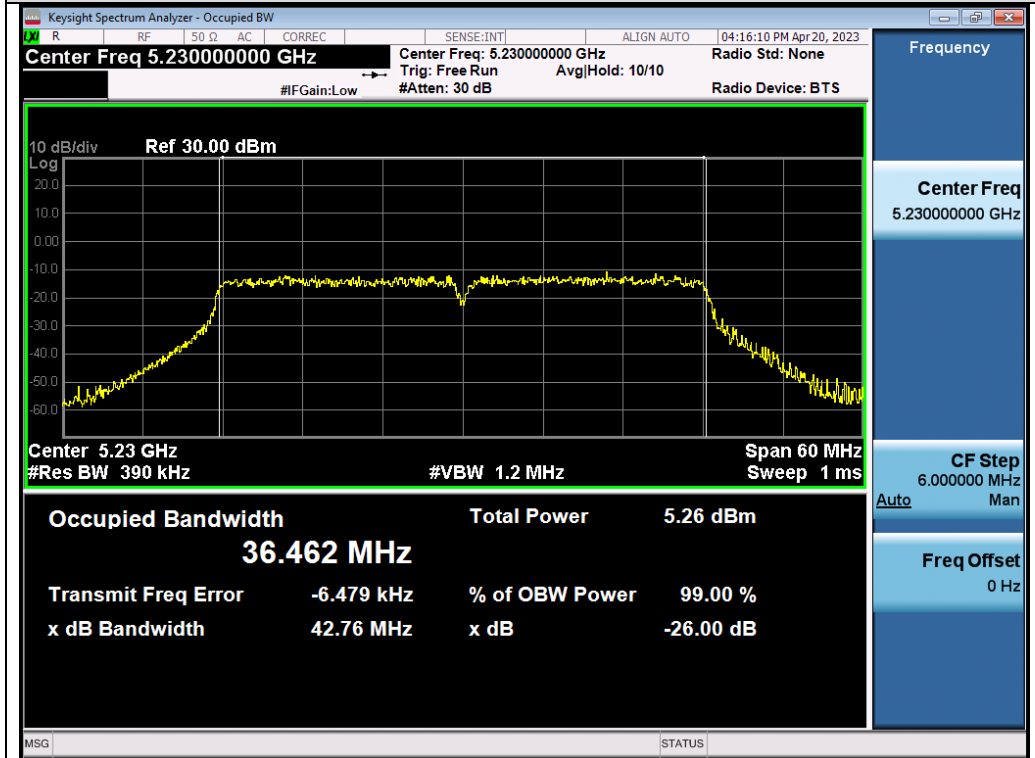


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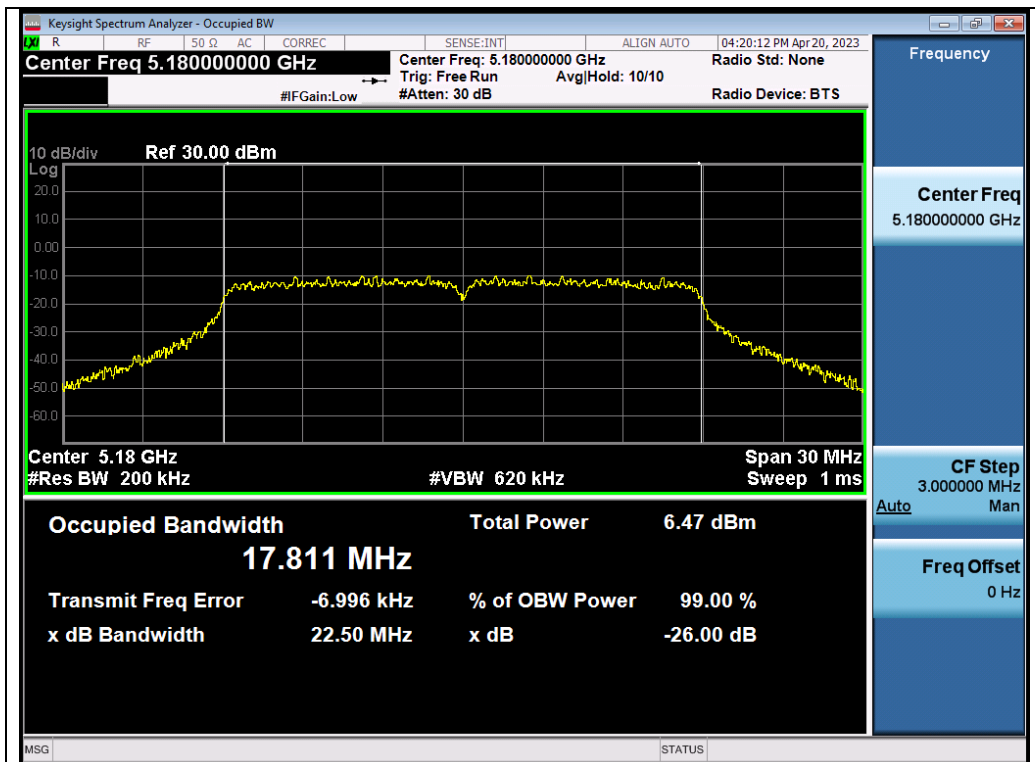


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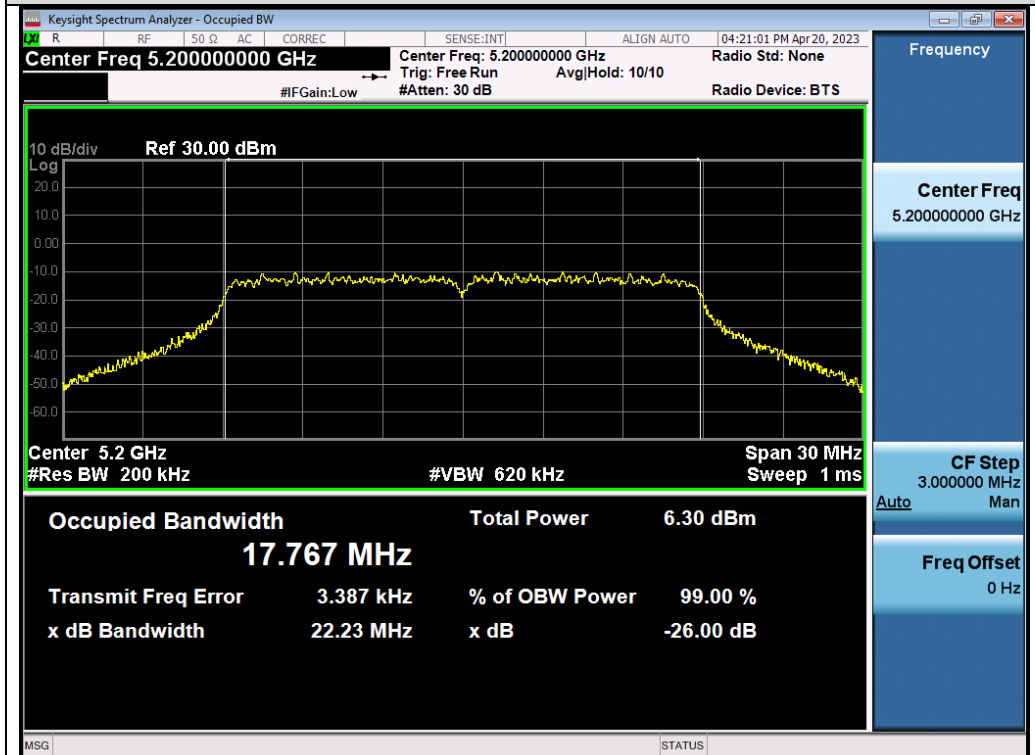


Test\_Graph\_802.11n40\_ANT2\_5230\_MCS0\_OBW

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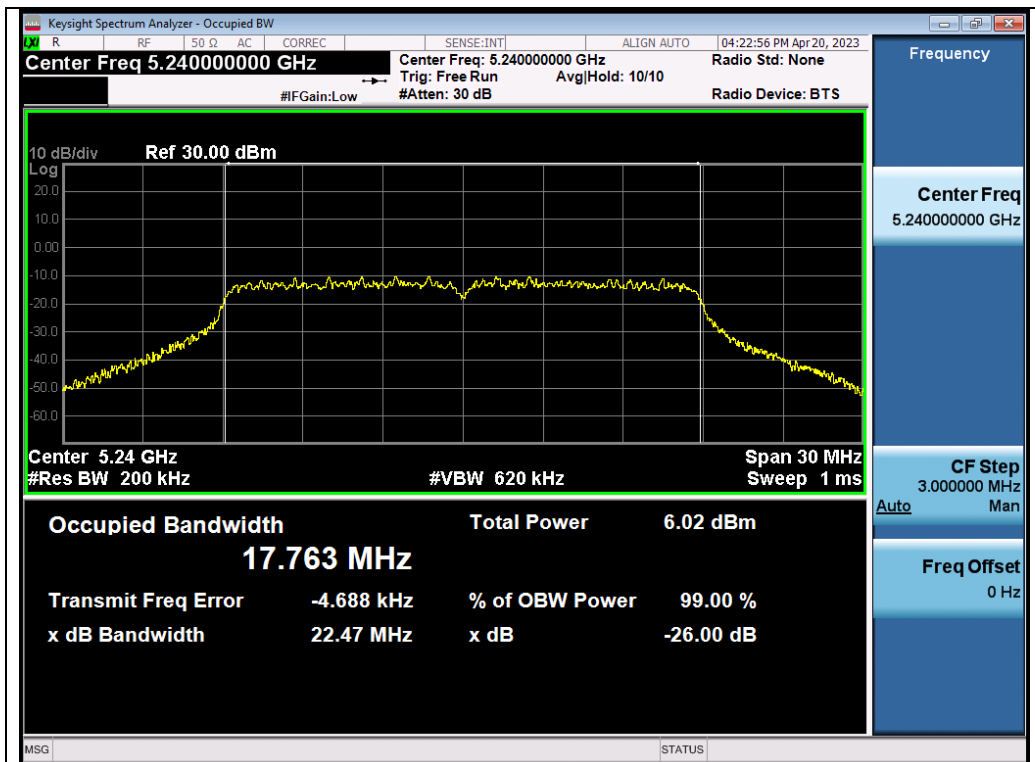
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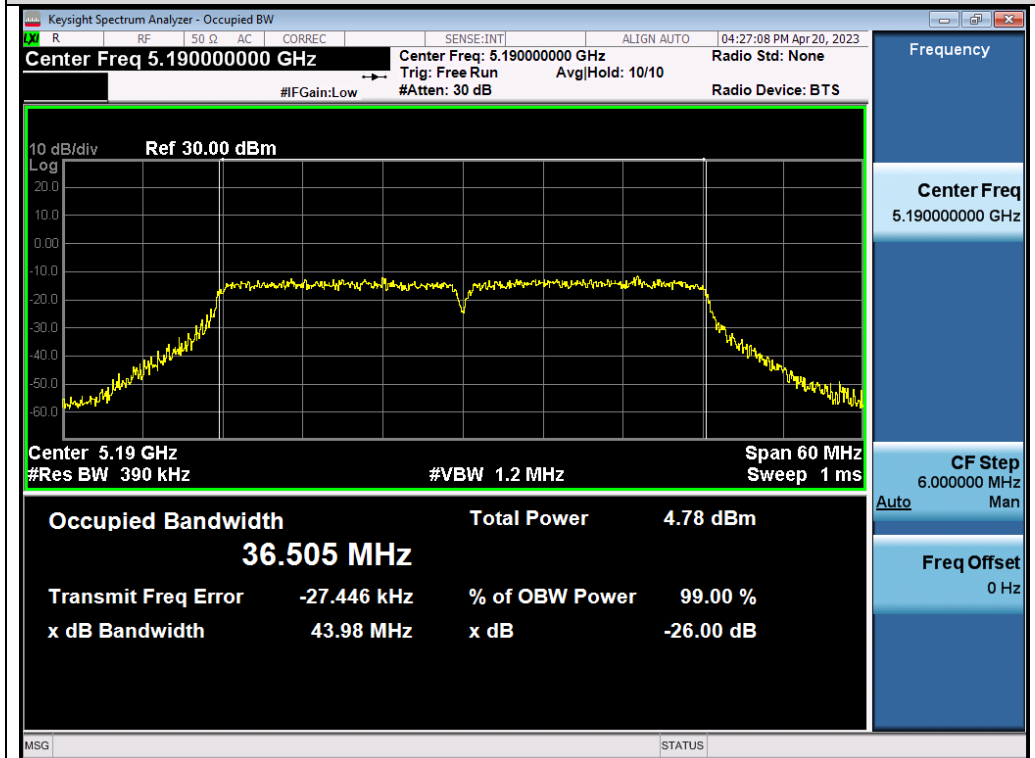
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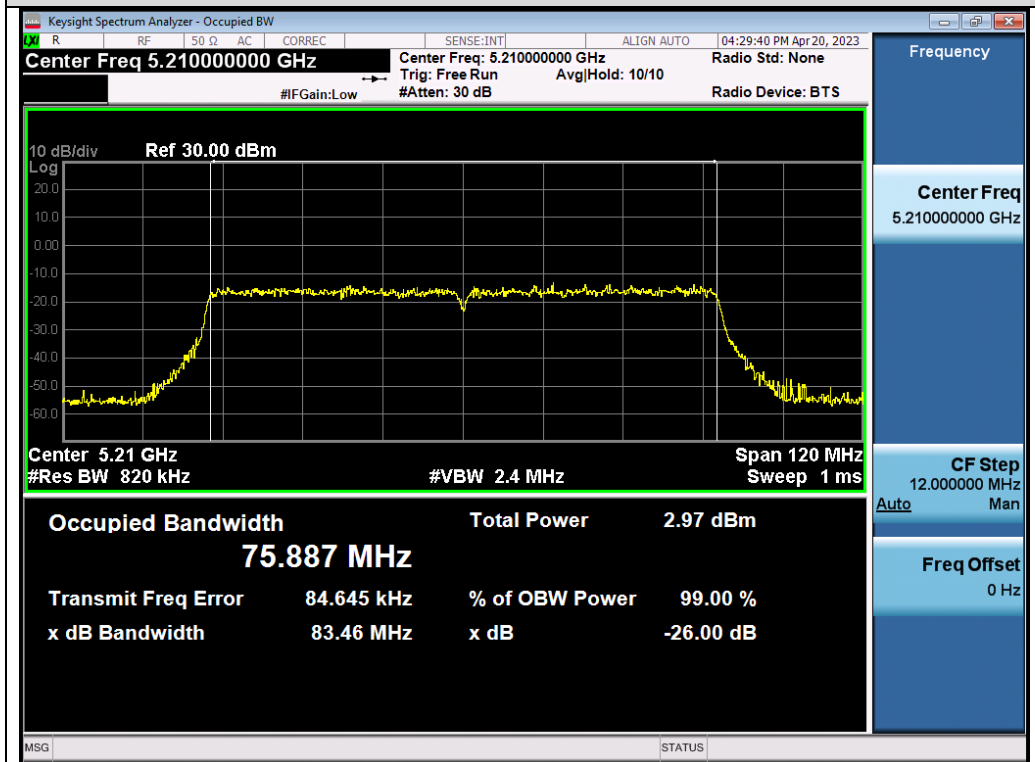
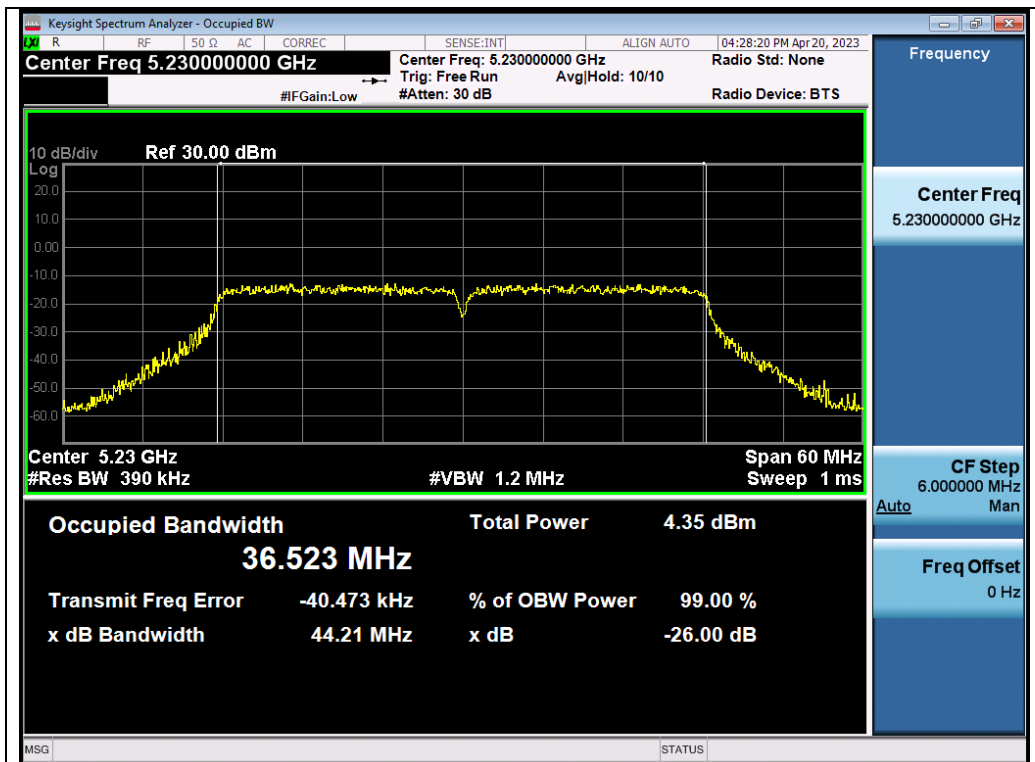


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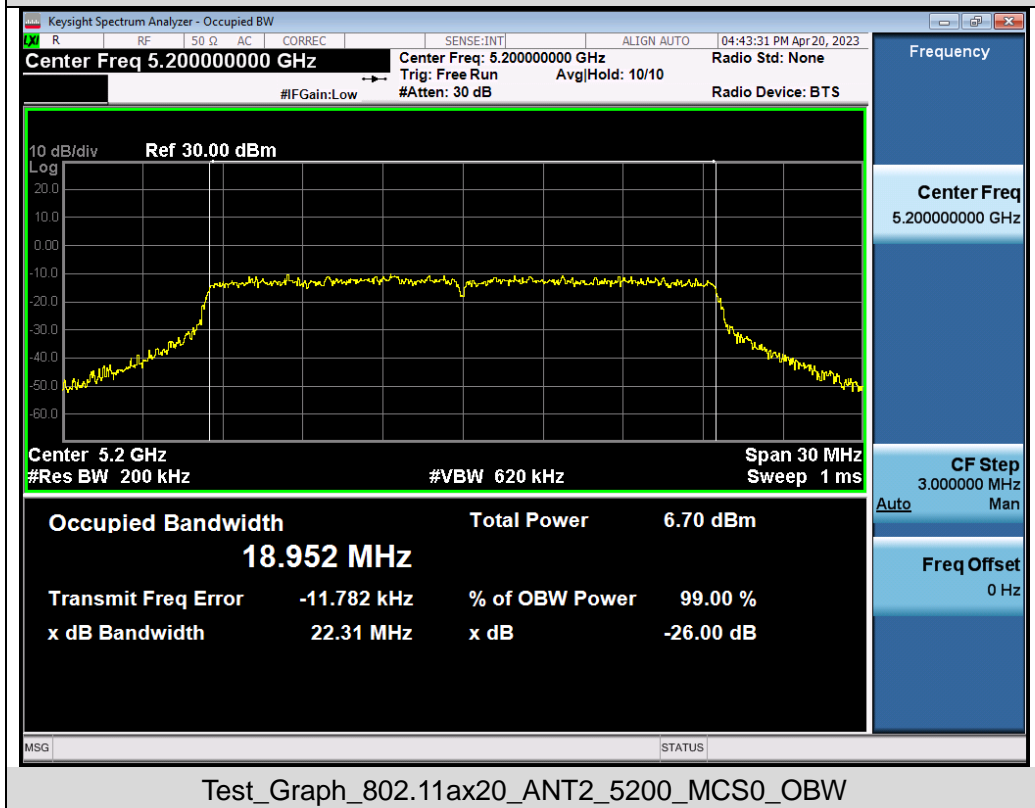
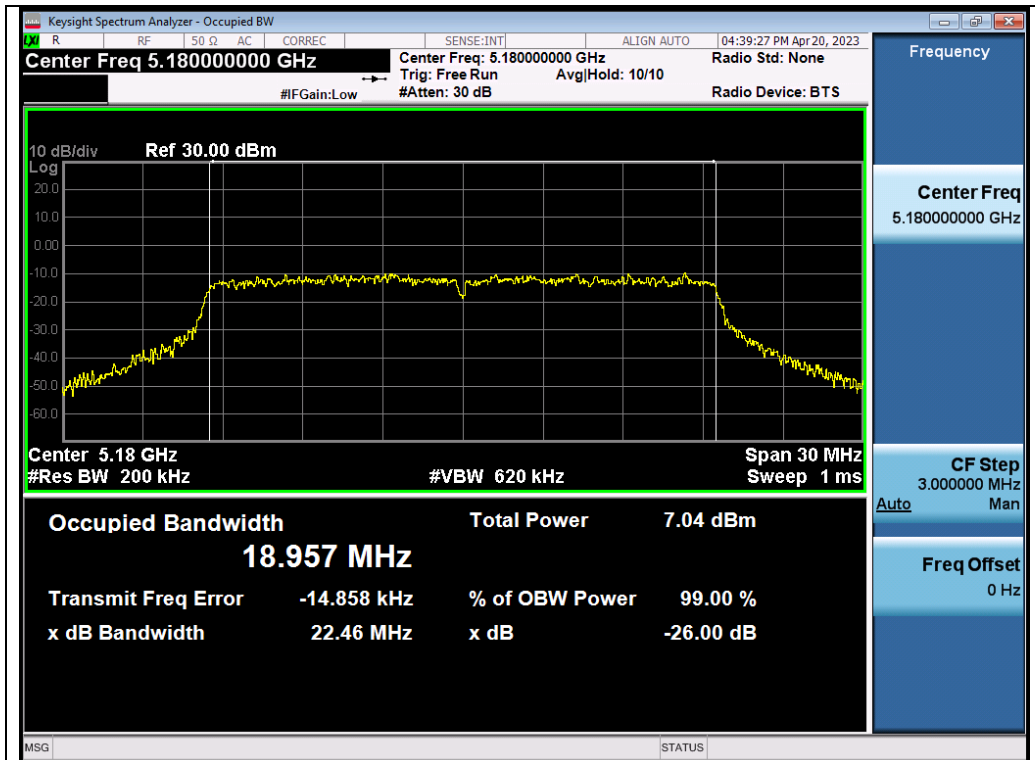
Test\_Graph\_802.11ac40\_ANT2\_5190\_MCS9\_OBW

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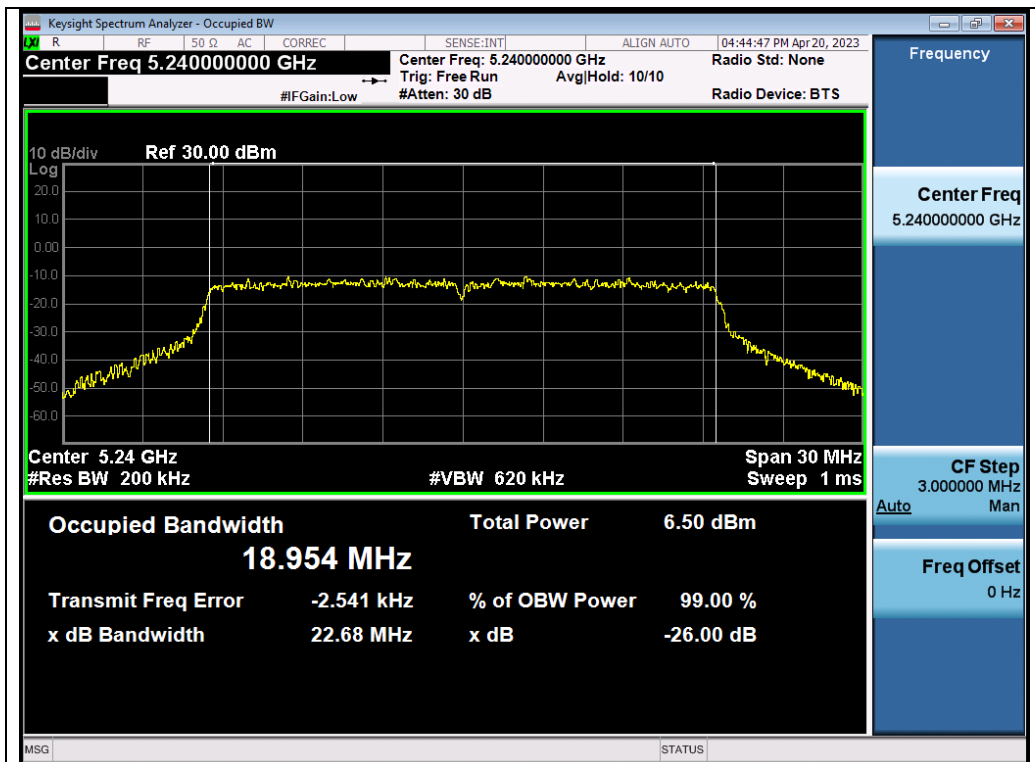


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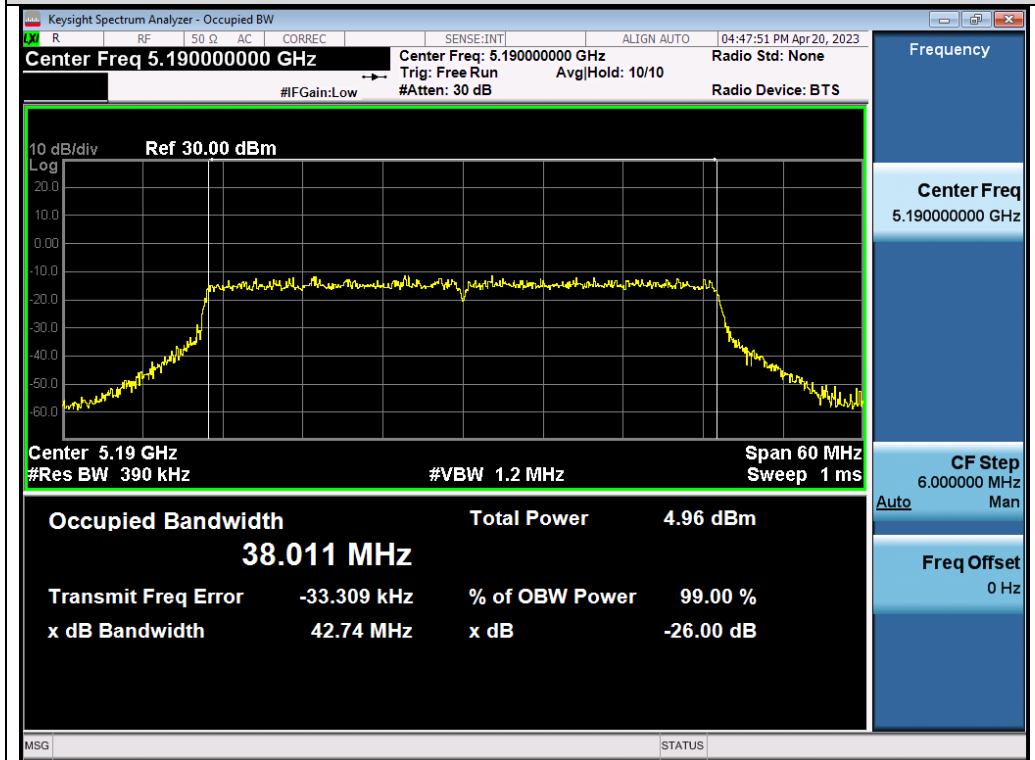




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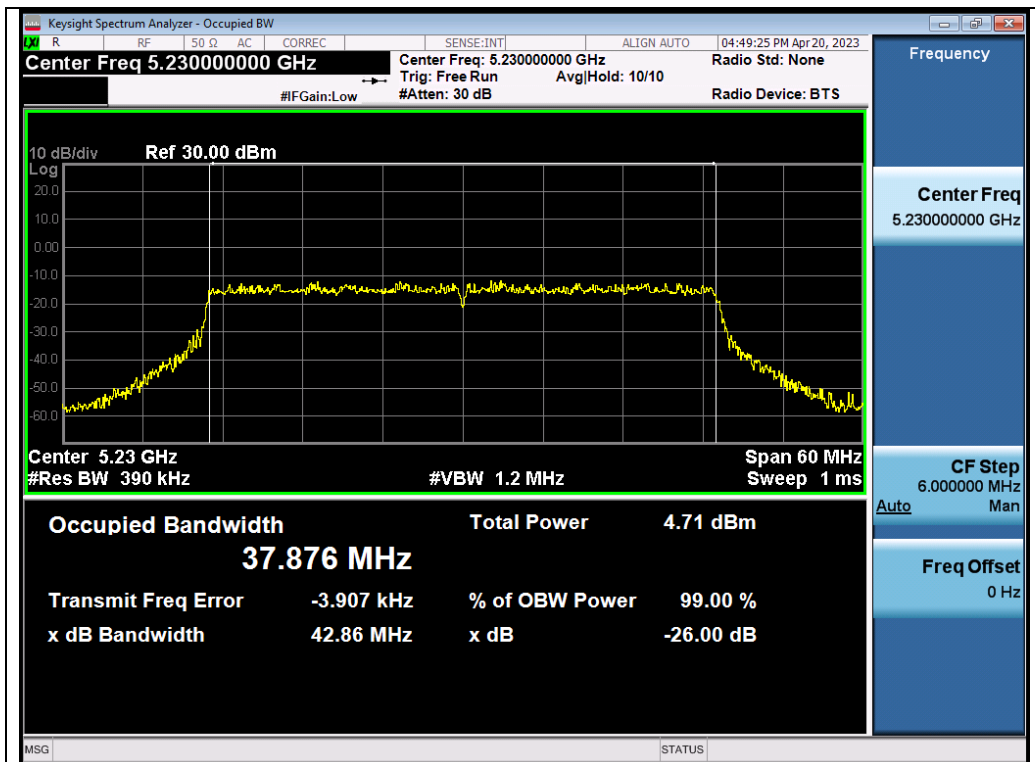


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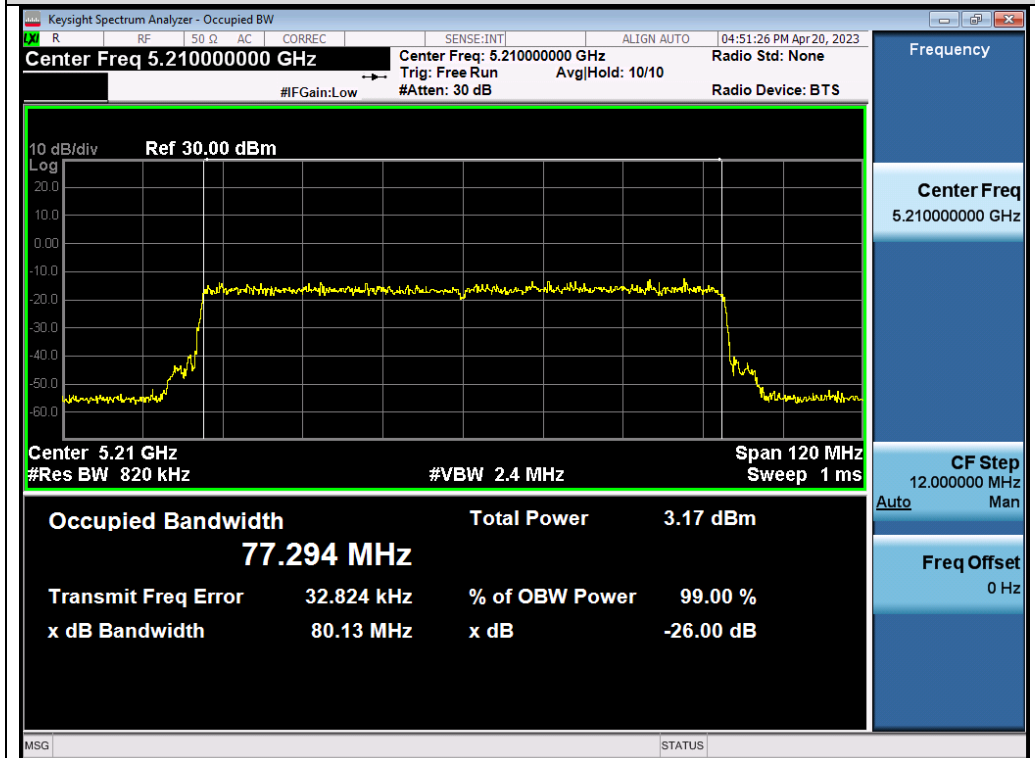


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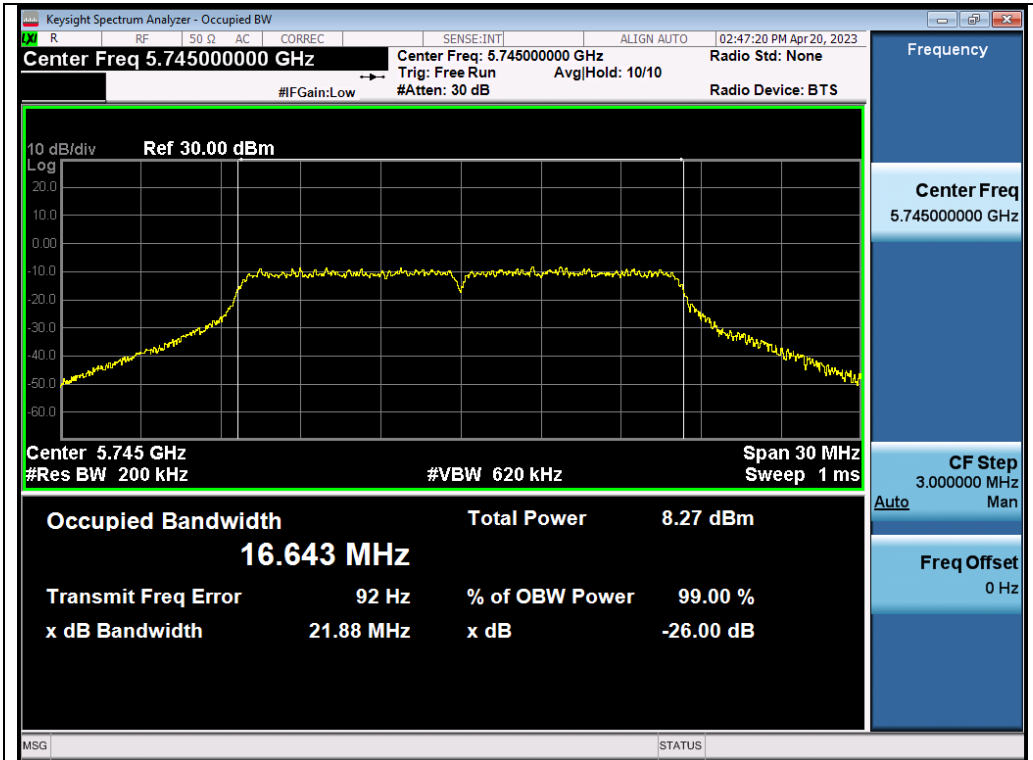
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Test\_Graph\_802.11ax80\_ANT2\_5210\_MCS0\_OBW

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**Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz**

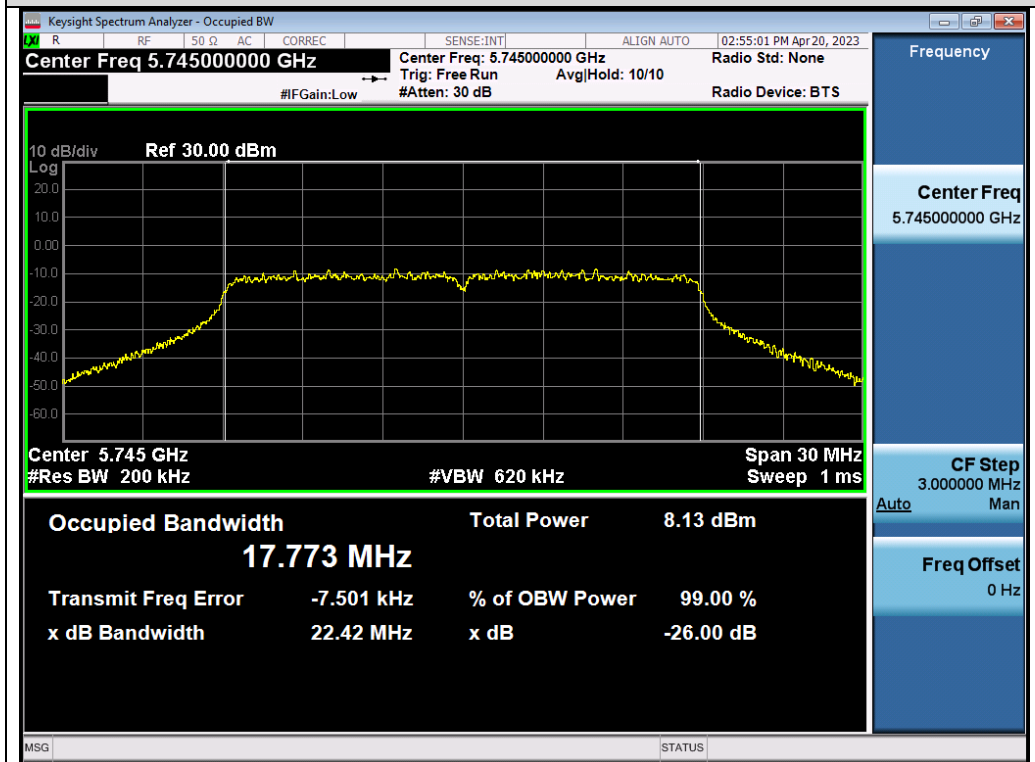
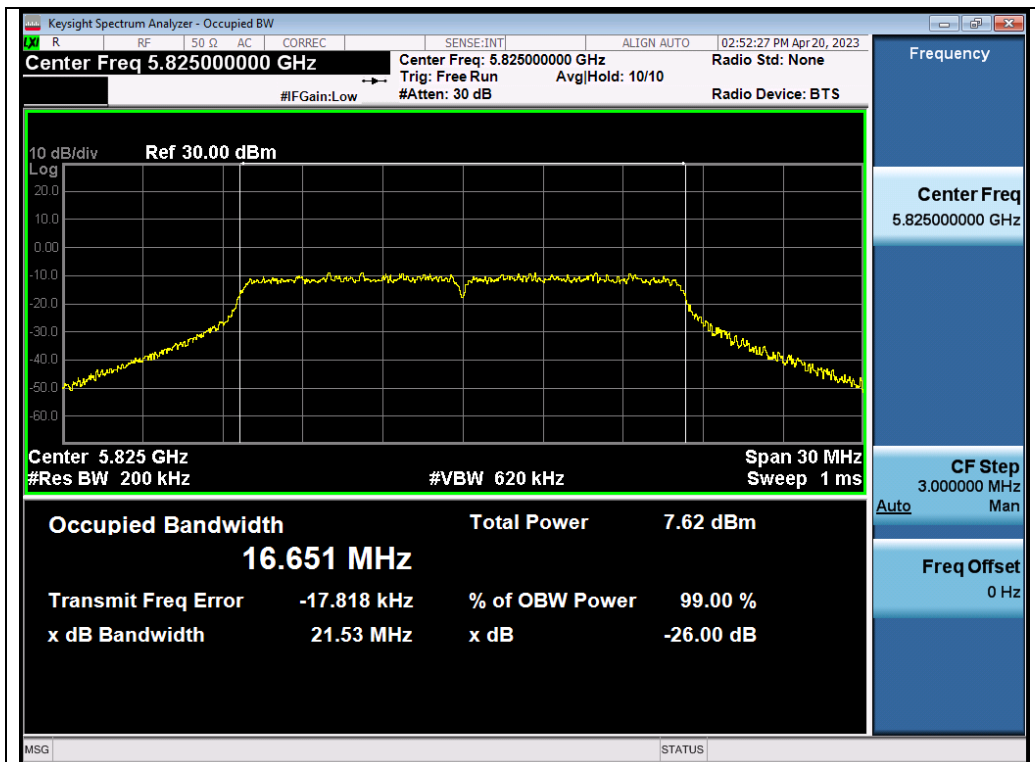


Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_OBW



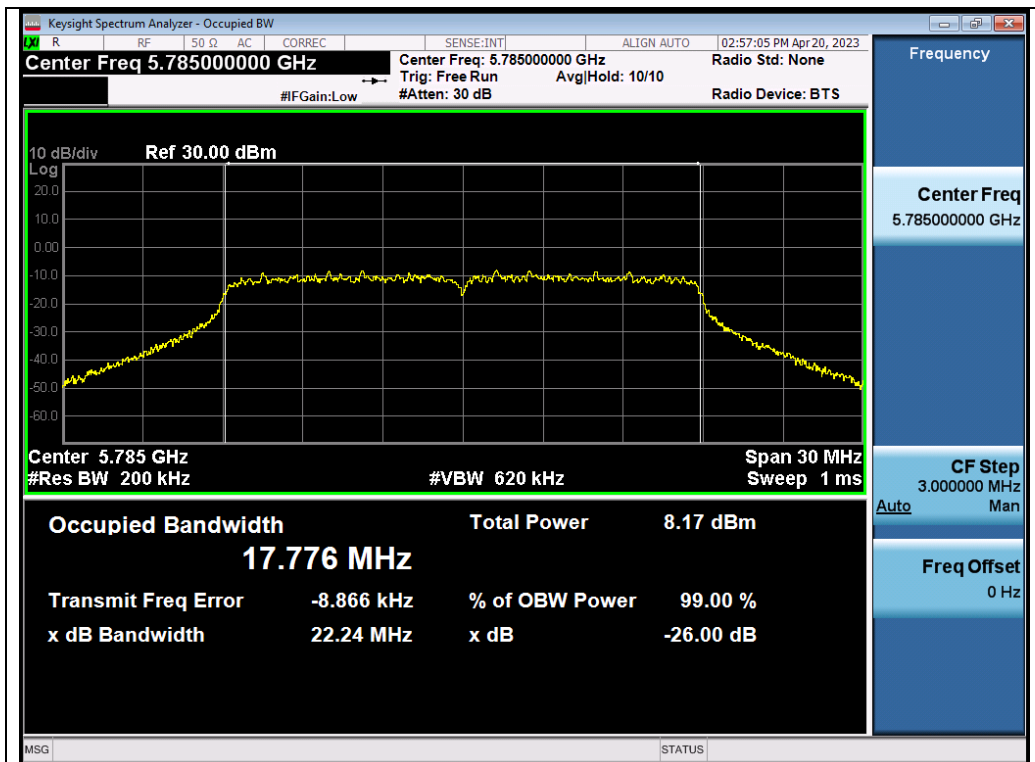
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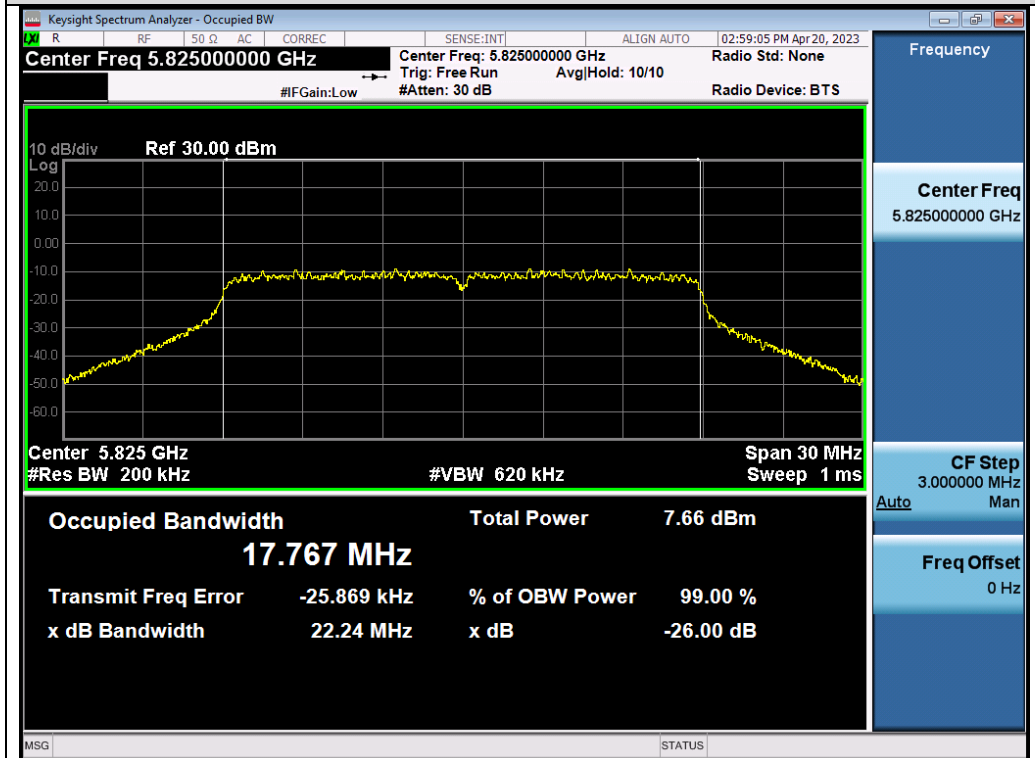


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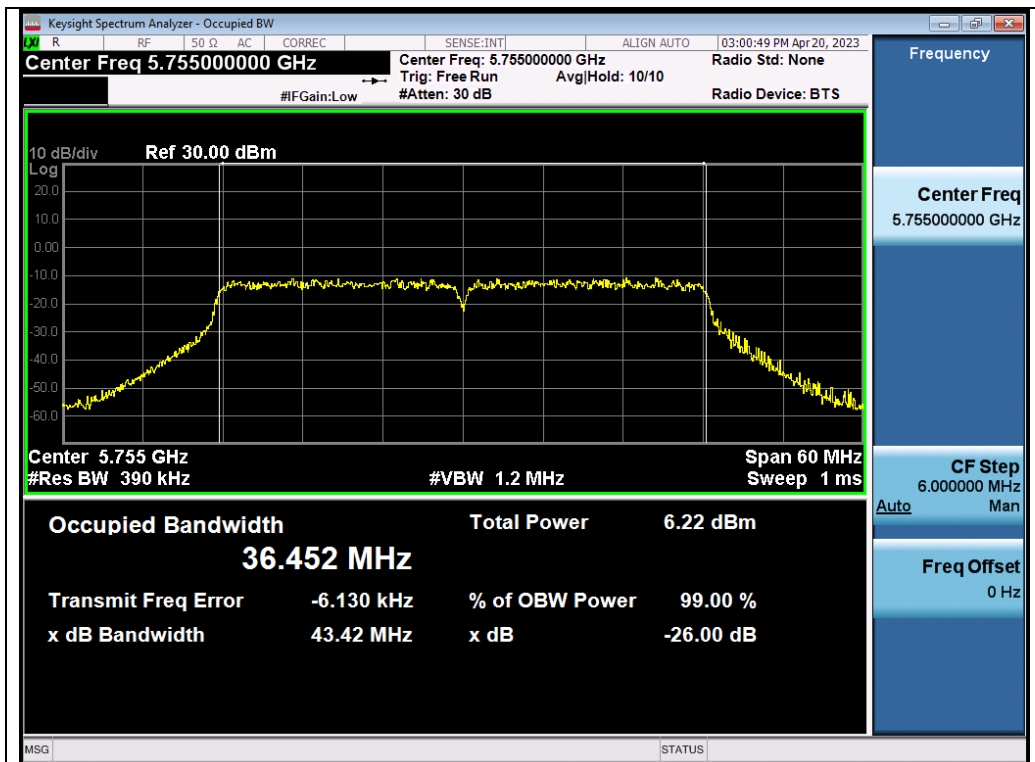


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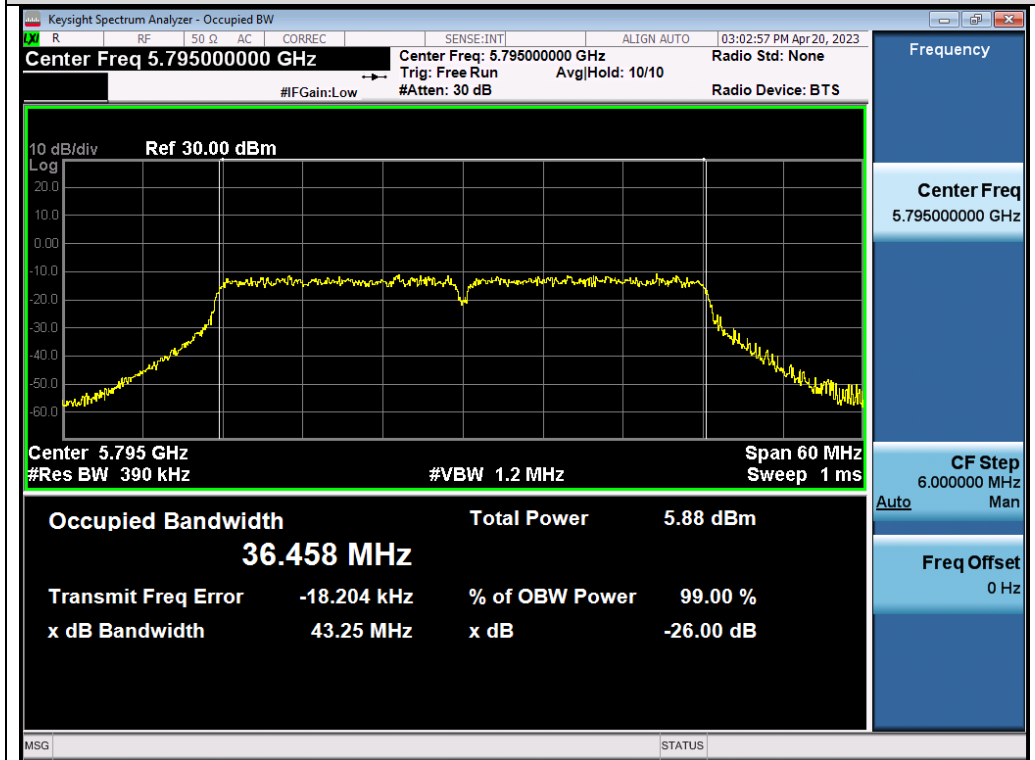


Test\_Graph\_802.11n20\_ANT1\_5825\_MCS0\_OBW

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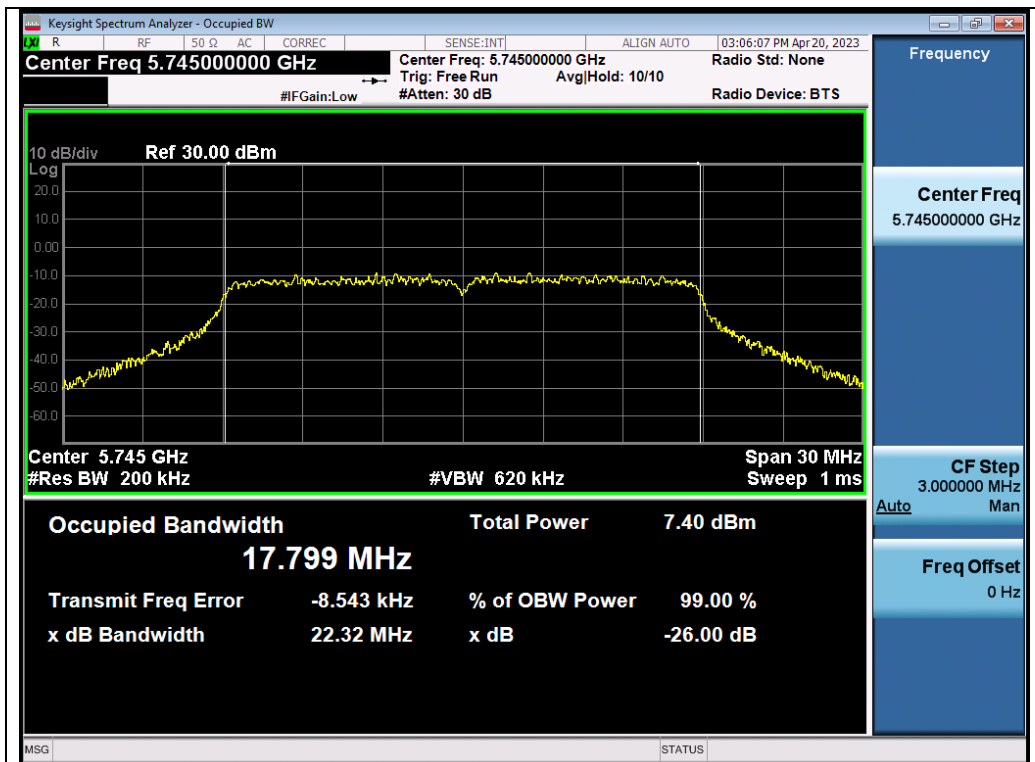
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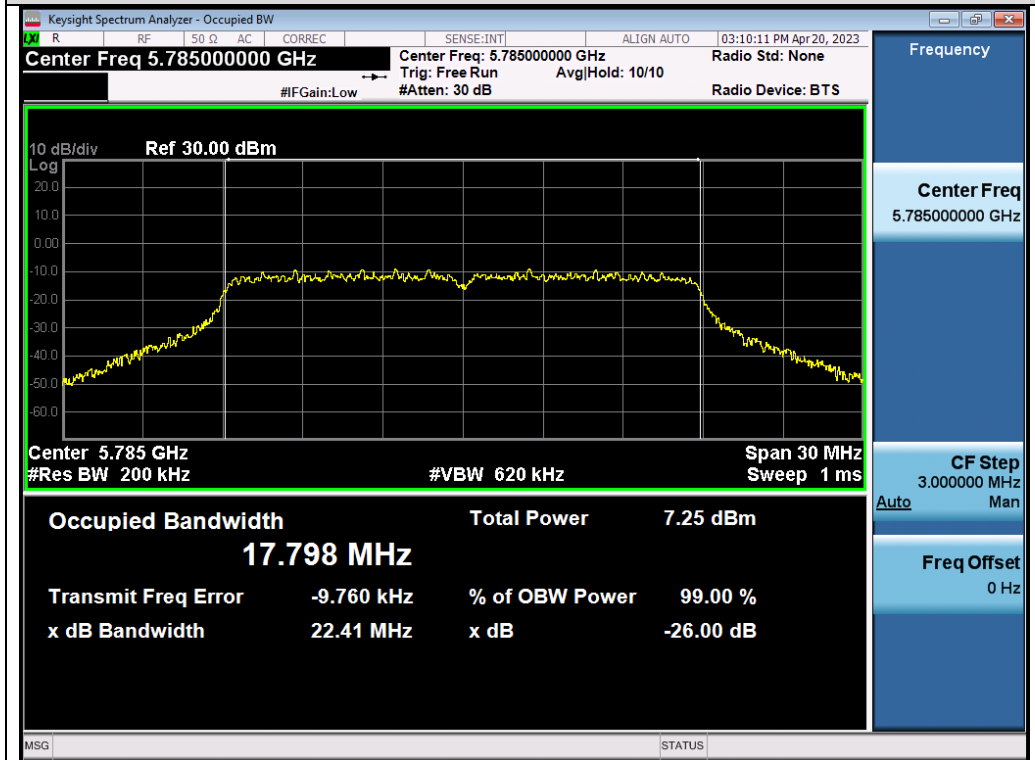
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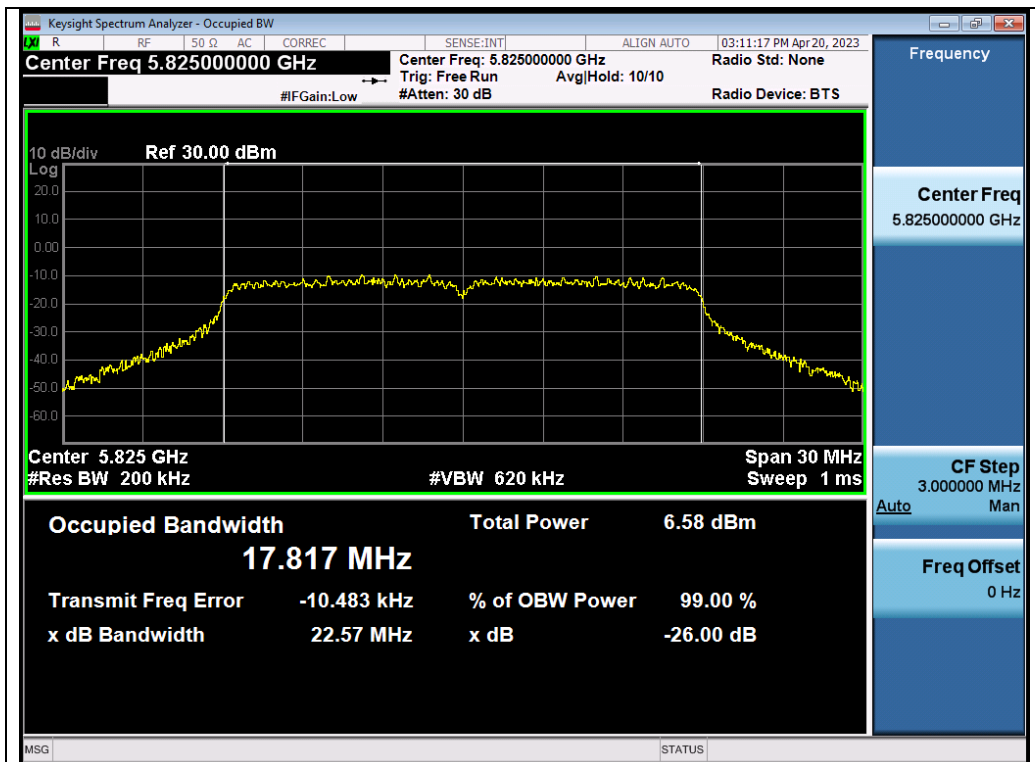


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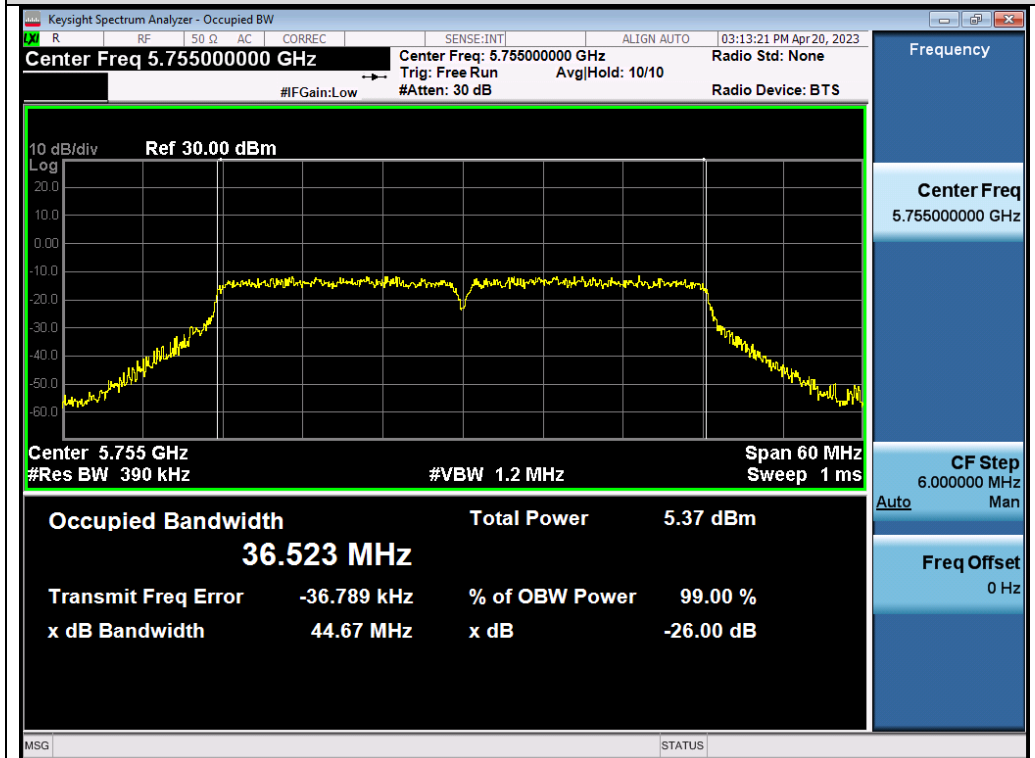


Test\_Graph\_802.11ac20\_ANT1\_5785\_MCS0\_OBW

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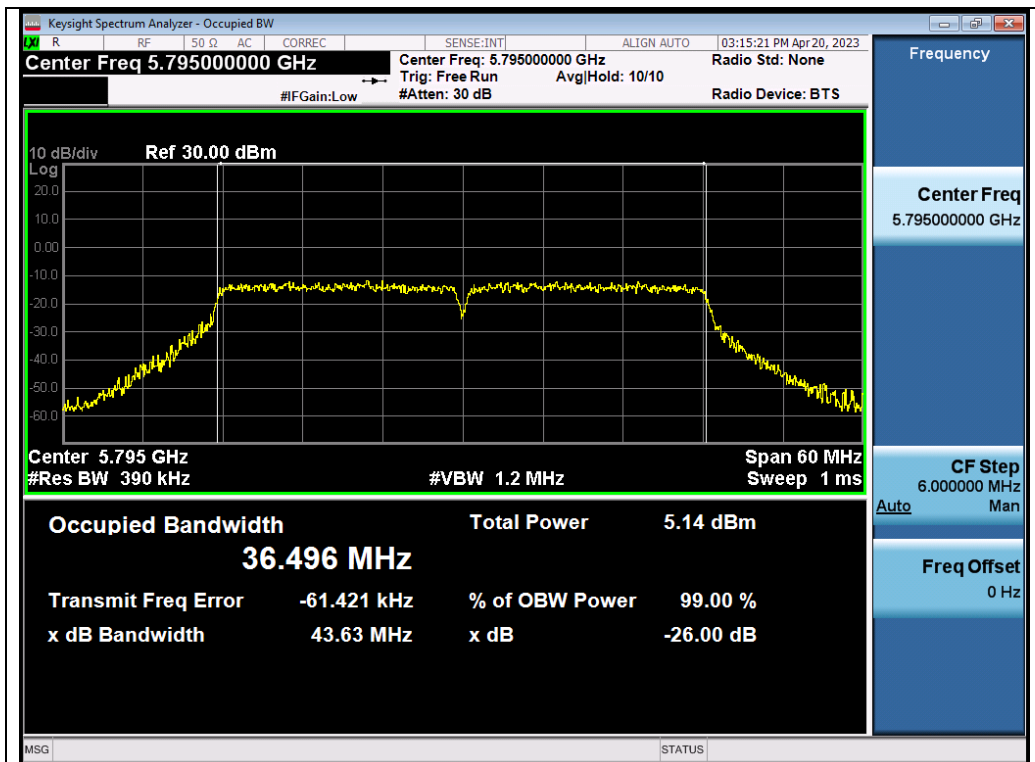


Test\_Graph\_802.11ac20\_ANT1\_5825\_MCS9\_OBW

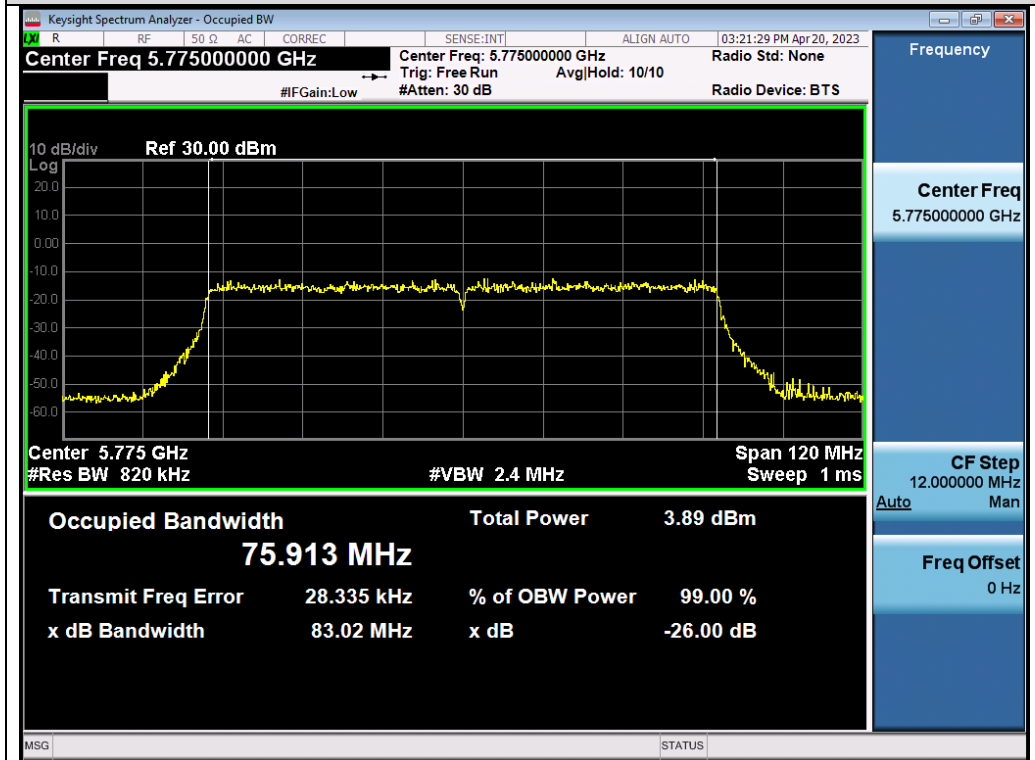


Test\_Graph\_802.11ac40\_ANT1\_5755\_MCS9\_OBW

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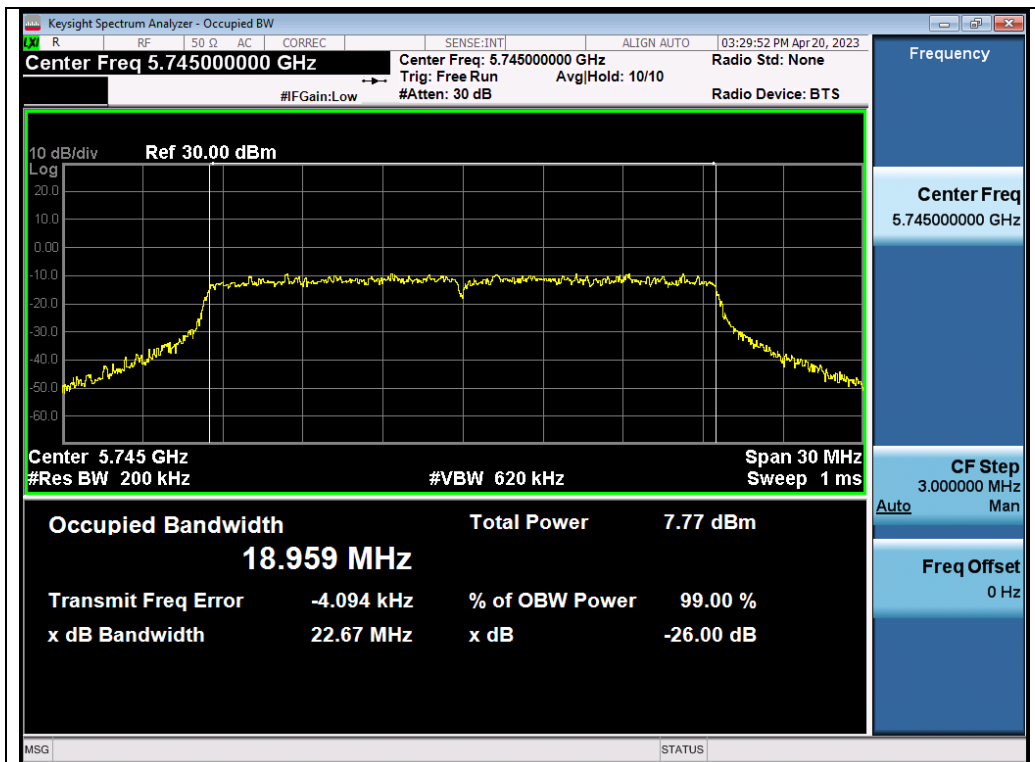


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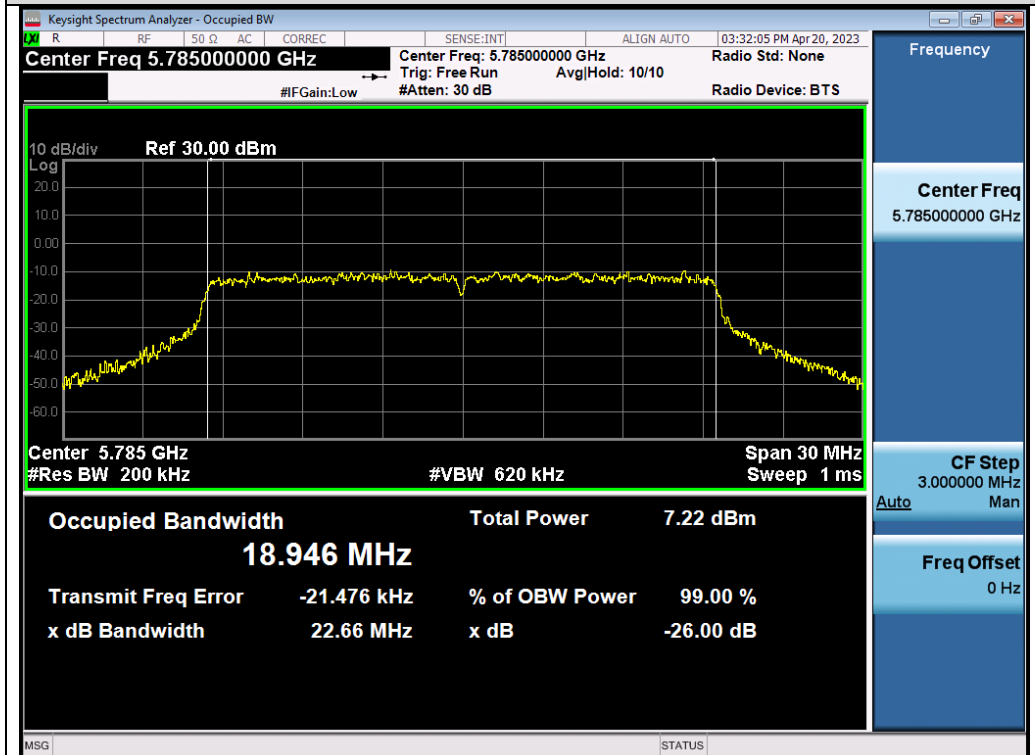


Test\_Graph\_802.11ac80\_ANT1\_5775\_MCS9\_OBW

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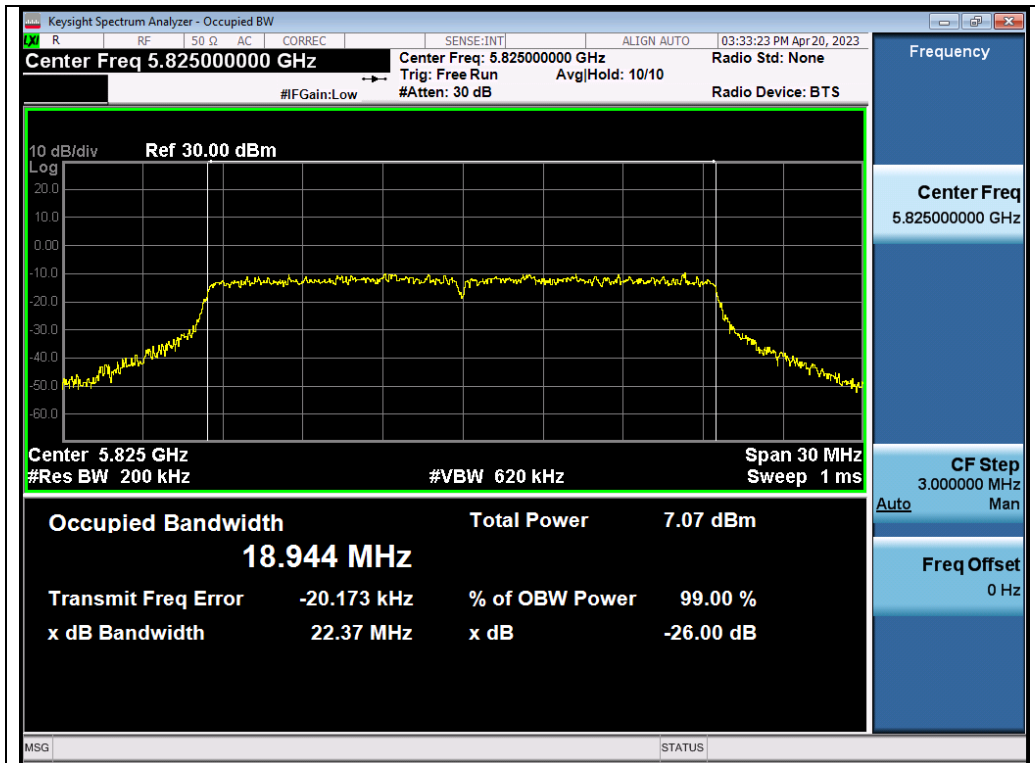


Test\_Graph\_802.11ax20\_ANT1\_5745\_MCS0\_OBW

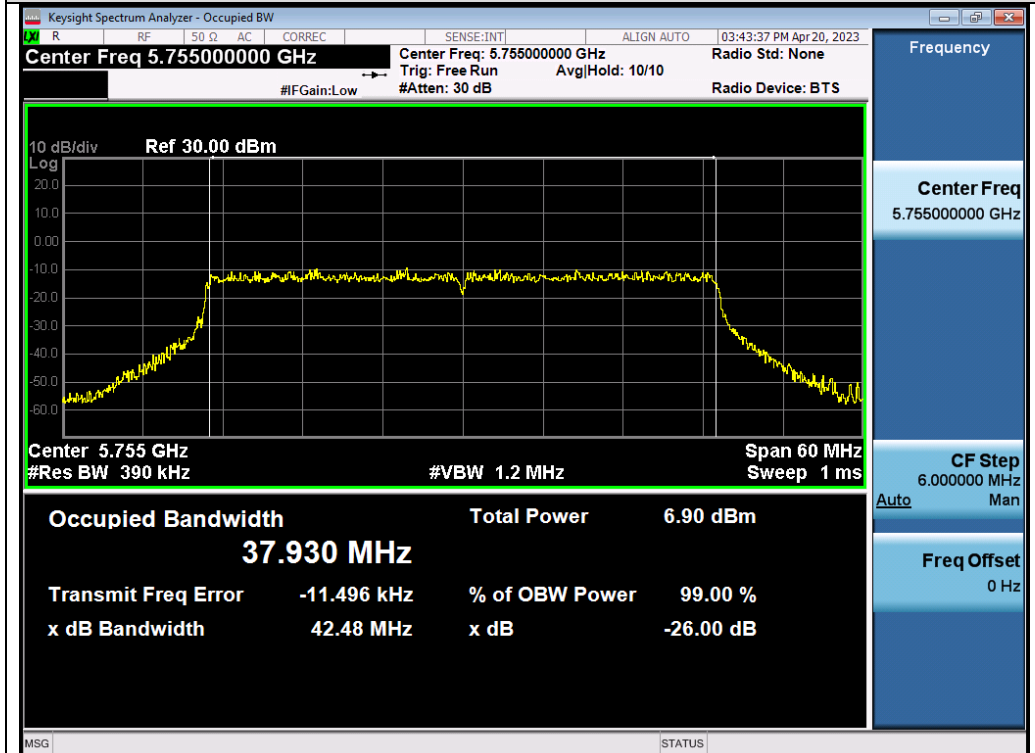


Test\_Graph\_802.11ax20\_ANT1\_5785\_MCS0\_OBW

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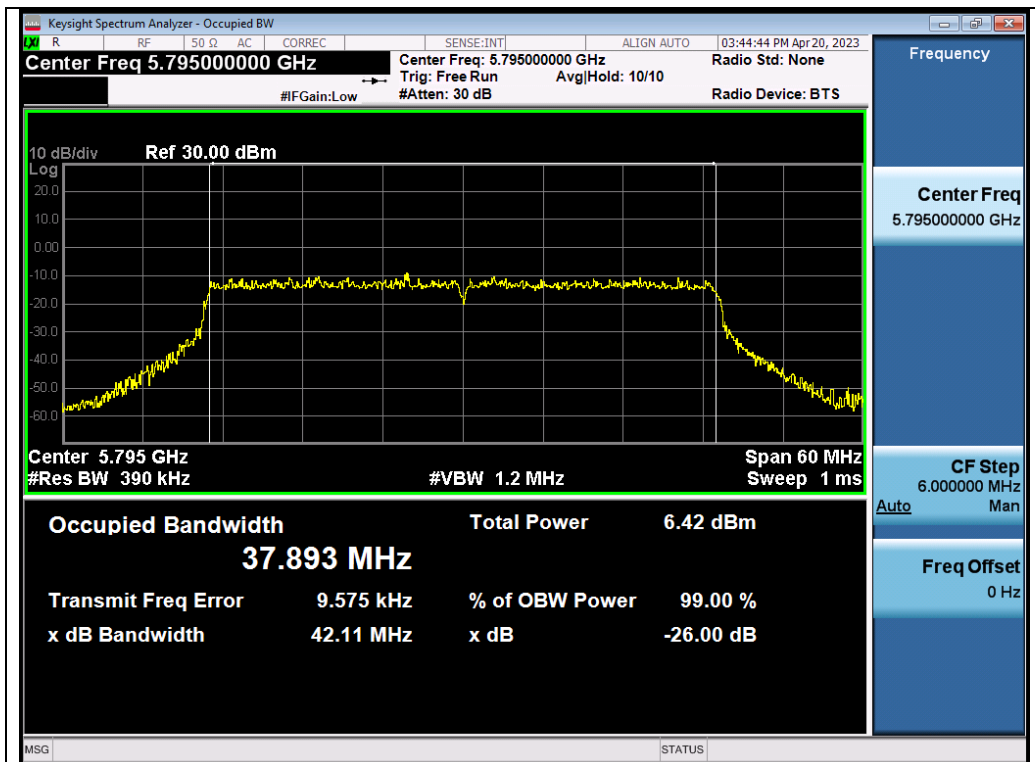
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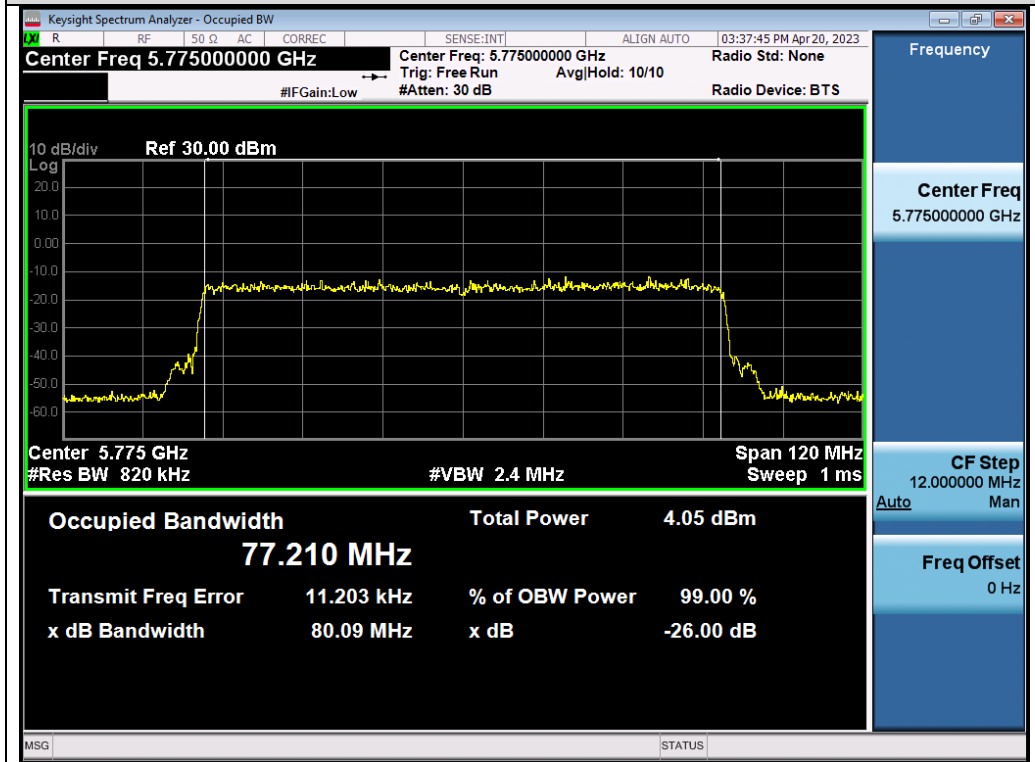
Test\_Graph\_802.11ax40\_ANT1\_5755\_MCS0\_OBW

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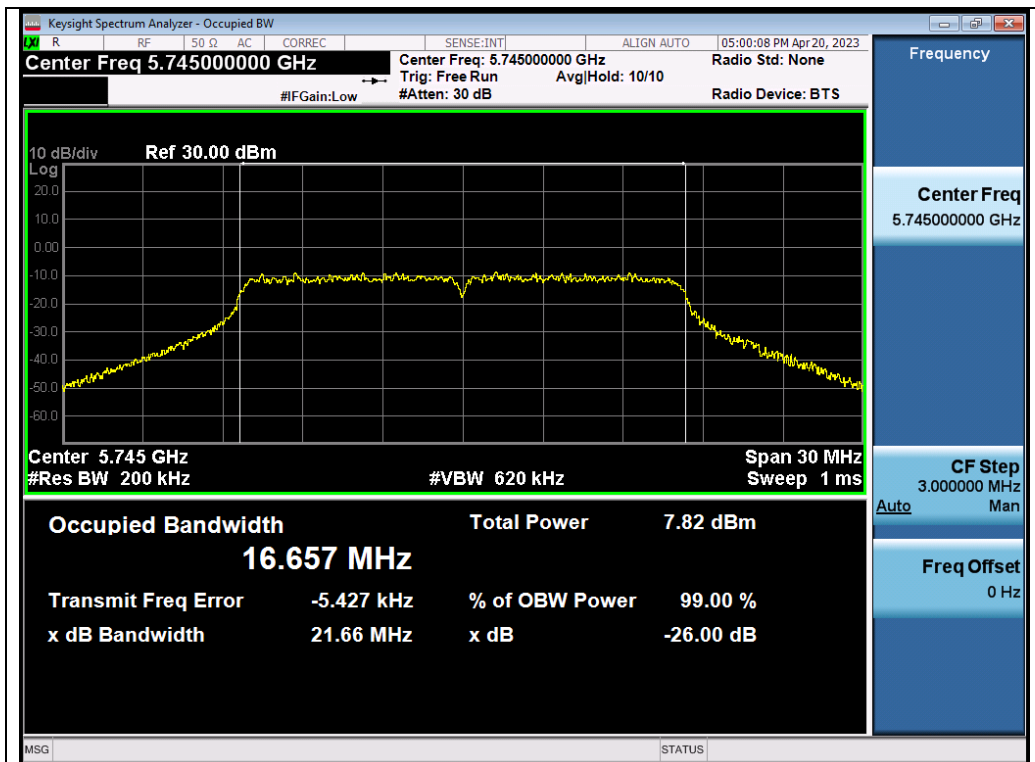


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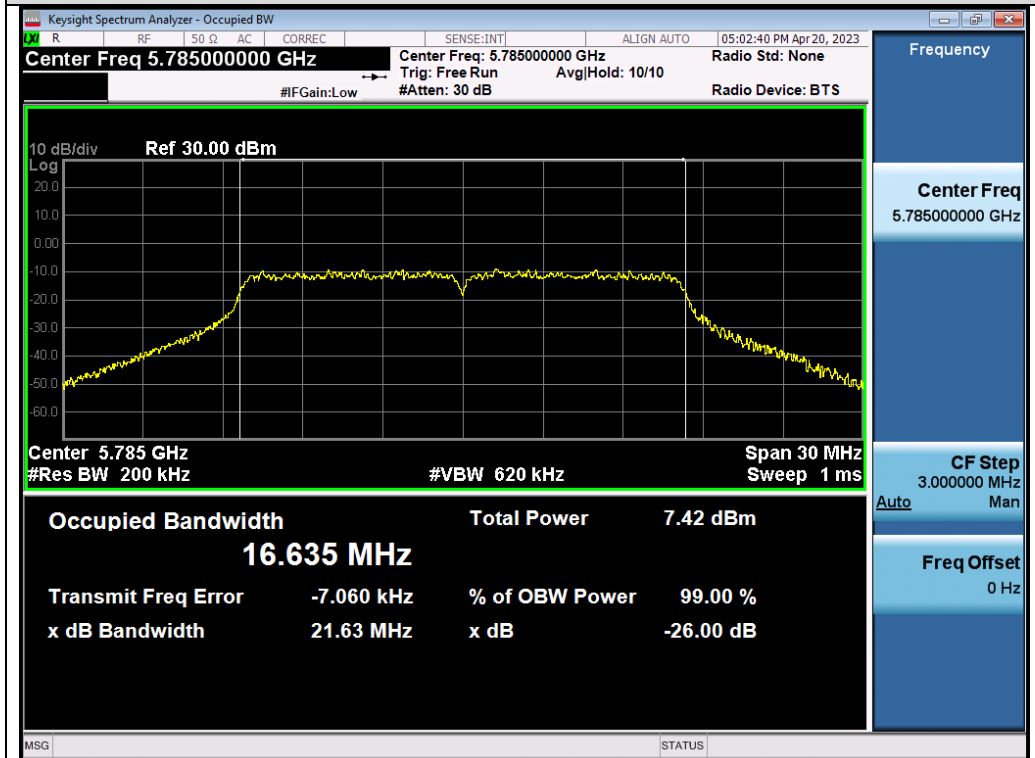


Test\_Graph\_802.11ax80\_ANT1\_5775\_MCS0\_OBW

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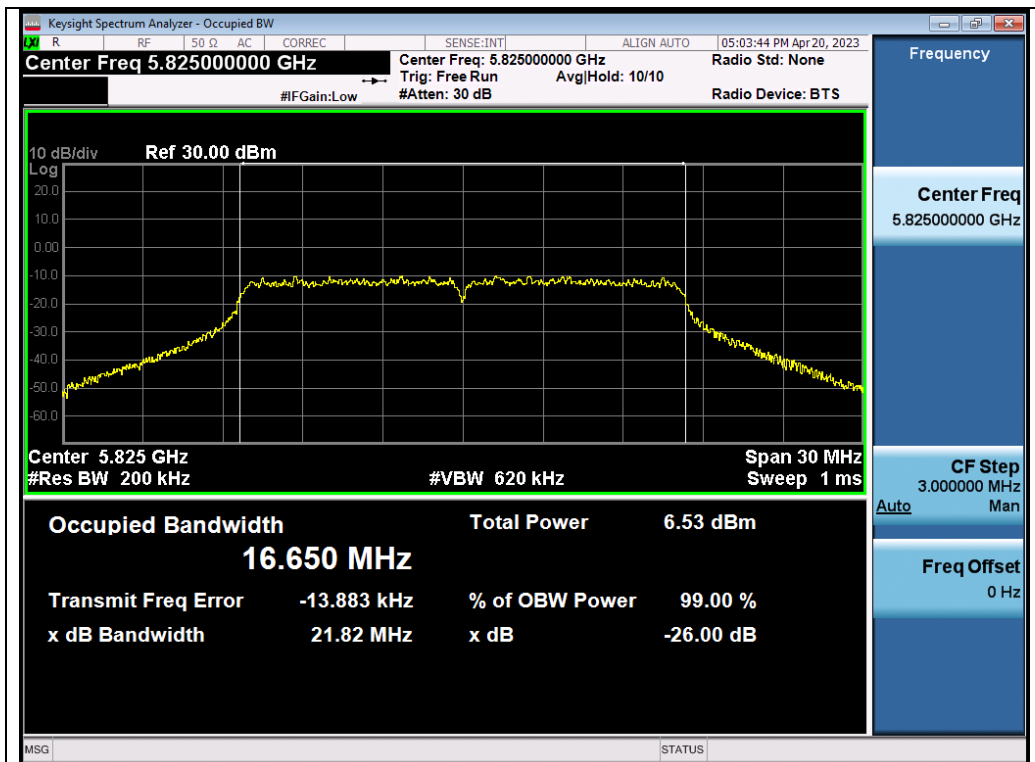
Test\_Graph\_802.11a\_ANT2\_5745\_6Mbps\_OBW



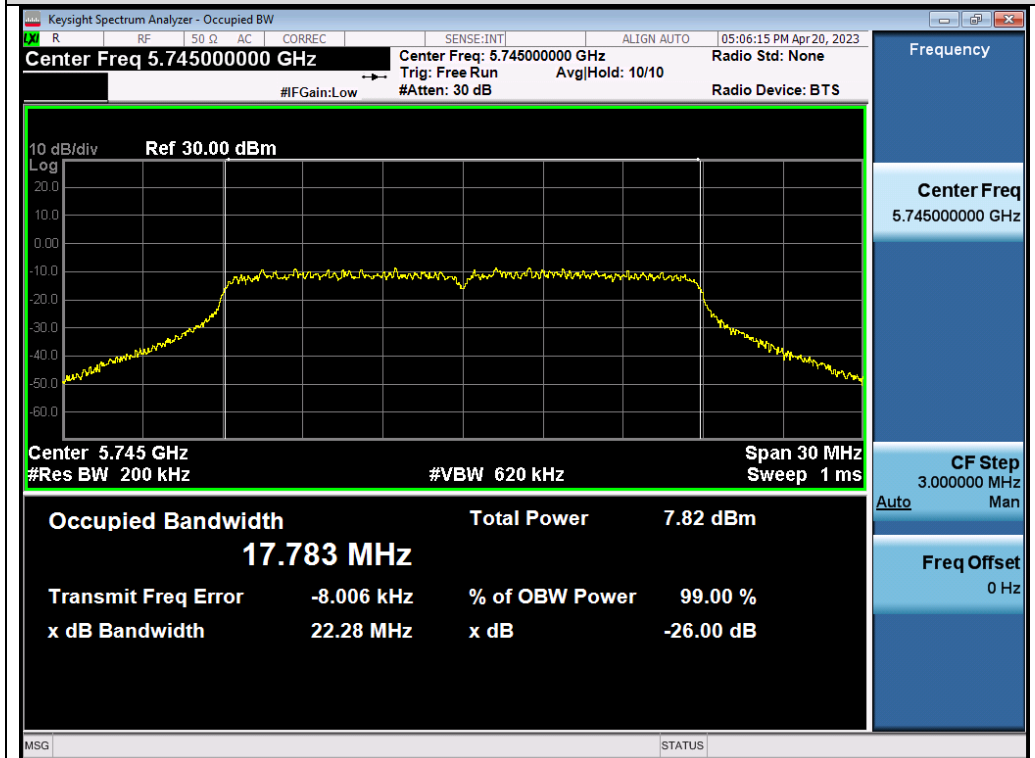
Test\_Graph\_802.11a\_ANT2\_5785\_6Mbps\_OBW

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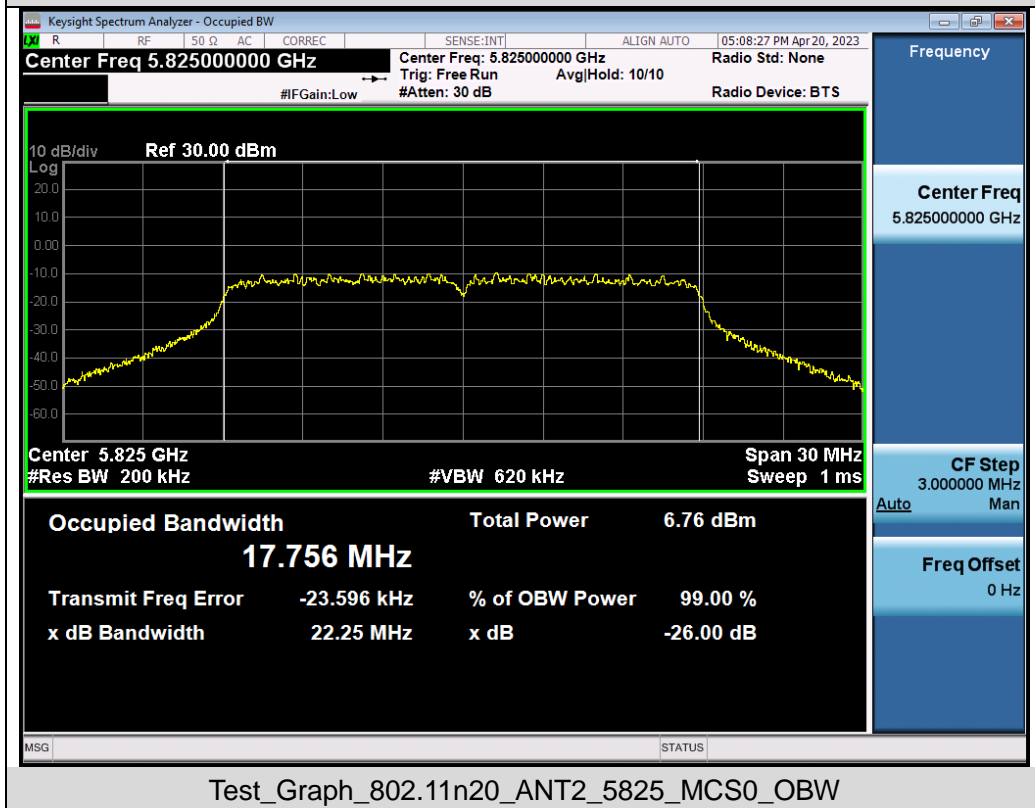
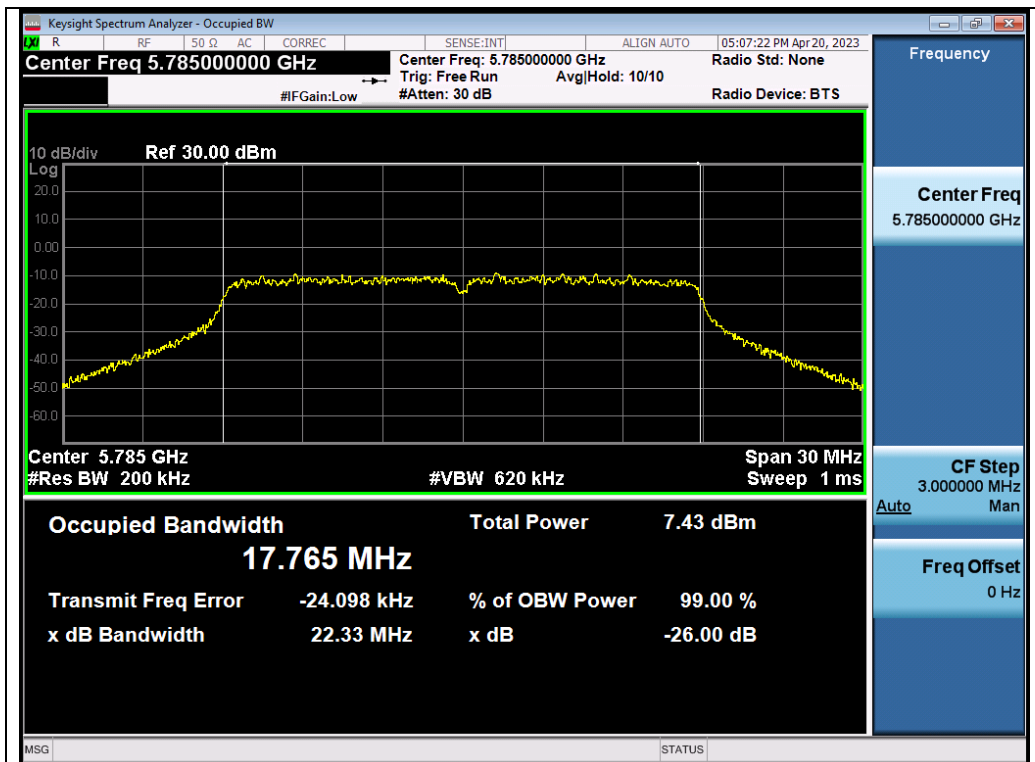


Test\_Graph\_802.11a\_ANT2\_5825\_6Mbps\_OBW



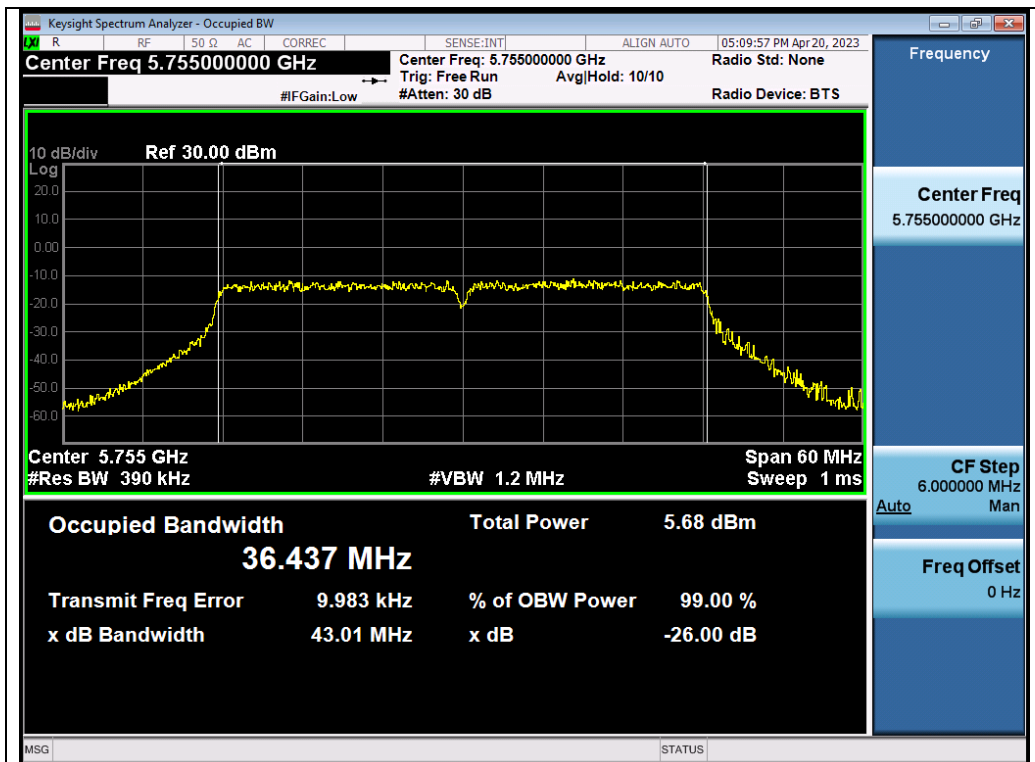
Test\_Graph\_802.11n20\_ANT2\_5745\_MCS0\_OBW

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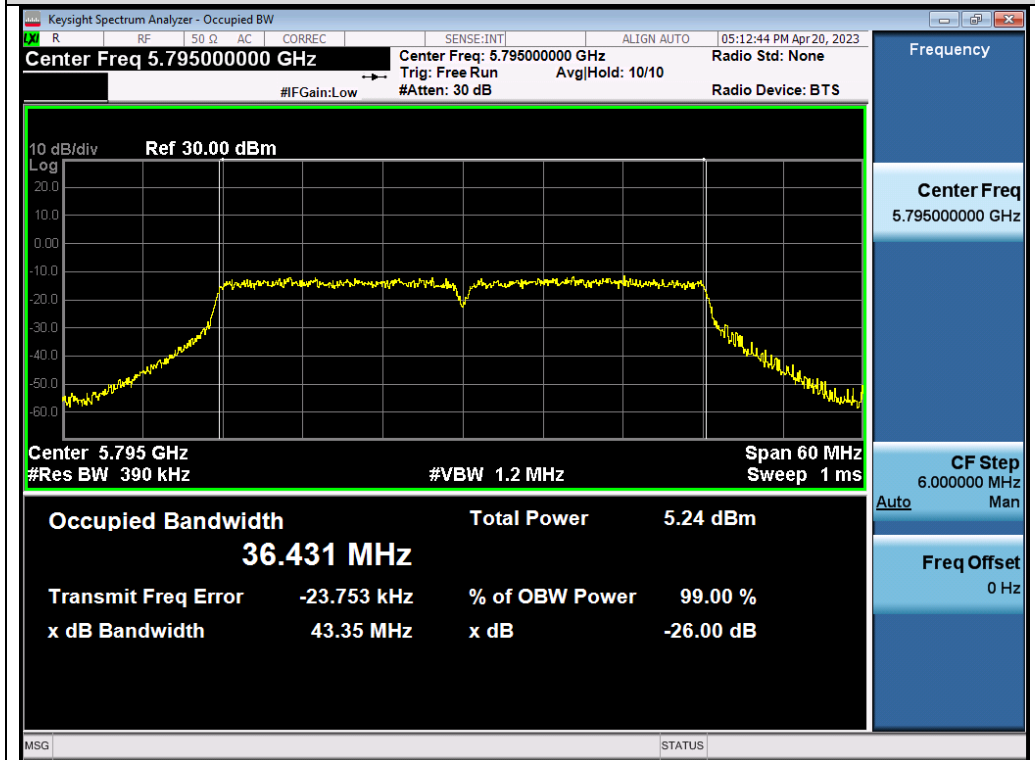


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Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



Test\_Graph\_802.11n40\_ANT2\_5755\_MCS0\_OBW



Test\_Graph\_802.11n40\_ANT2\_5795\_MCS0\_OBW

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