
FCC Test Report

Report No.: AGC13776220101FE06

FCC ID : 2A4KW-MP1PRO
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Mushi Pad Pro
BRAND NAME : mushi.ai
MODEL NAME : MP1 Pro
APPLICANT : Nanjing Mushi Technology Co., Ltd.
DATE OF ISSUE : Mar. 25, 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	/	Mar. 25, 2022	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Nanjing Mushi Technology Co., Ltd.
Address	320 Pubin Road, Jiangpu Street, Pukou District, Nanjing
Manufacturer	Nanjing Mushi Technology Co., Ltd.
Address	320 Pubin Road, Jiangpu Street, Pukou District, Nanjing
Factory	ShenZhen WeiHejia Electronics Technology CO., LTD
Address	Block 102, Building 9 , Xihu Industrial park, Xikeng community, Yuanshan street, Longgang district, Shenzhen
Product Designation	Mushi Pad Pro
Brand Name	mushi.ai
Test Model	MP1 Pro
Date of test	Feb. 11, 2022~Mar. 25, 2022
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	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



Eder Zhan
(Project Engineer)

Mar. 25, 2022

Reviewed By



Calvin Liu
(Reviewer)

Mar. 25, 2022

Approved By



Max Zhang
Authorized Officer

Mar. 25, 2022

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “Mushi Pad Pro”. 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

Equipment Type	☐ Outdoor access points ☐ Fixed P2P access points	☐ Indoor access points ☒ Client devices
Operation Frequency	☒ U-NII 1:5150MHz~5250MHz ☐ U-NII 2C:5470MHz~5725MHz	☒ U-NII 2A: 5250MHz~5350MHz ☒ U-NII 3: 5725MHz~5850MHz
DFS Design Type	☐ Master ☐ Slave with radar detection	☒ Slave without radar detection
TPC Function	☐ Yes ☒ No	
Test Frequency Range:	For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5755~5795MHz For 802.11ac-HT80: 5210MHz, 5290MHz, 5775MHz	
Max Average Power	IEEE 802.11a20:9.78dBm; IEEE 802.11n(20):9.29dBm; IEEE802.11n(40):9.74dBm; IEEE 802.11ac(20):9.35dBm; IEEE 802.11ac(40):9.79dBm; IEEE 802.11ac(80):9.78dBm	
Modulation	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 400Mbps	
Number of channels	7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 8 channels of U-NII-3 Band	
Hardware Version	B000RK12_IO_V103	
Software Version	RK12_wh_20211126_update	
Antenna Designation	PIFA Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	1.42dBi	
Power Supply	DC 12V by adapter.	

Note:

1. The EUT is designed as indoor access point operating without radar detection.
2. The device do not support TPC.

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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	--	--

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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: 2A4KW-MP1PRO** 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.

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	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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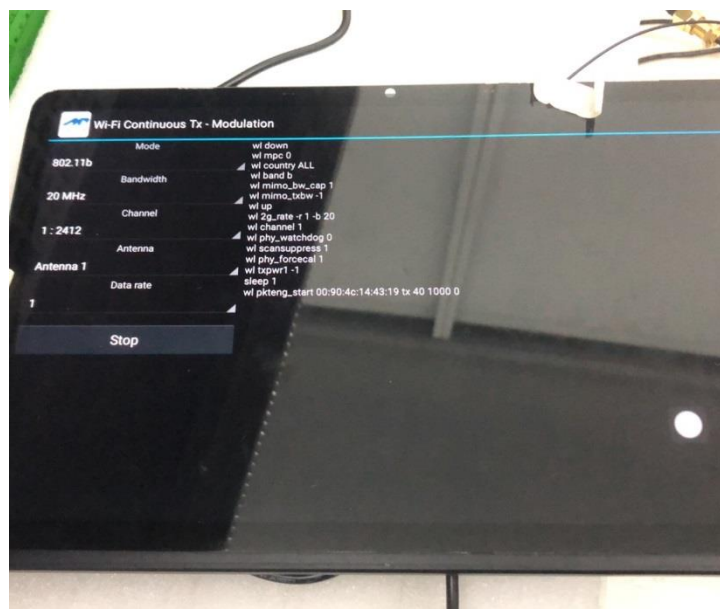
4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate (Mbps)
802.11a/n/ac20	36,40,44,48, 149,153,157,161,165	36,40,48, 149,157,165	OFDM	6Mbps/MCS0
802.11n/ac40	38,46,151,159	38,46, 151,159	OFDM	MCS0
802.11ac80	42, 155	42, 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.

Software Setting



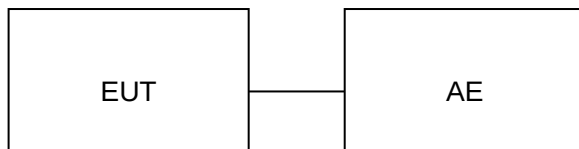
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Mushi Pad Pro	MP1 Pro	2A4KW-MP1PRO	EUT
2	Adapter	HTY-1201500	Input: AC 100-240V 50/60Hz, 0.5A Output: DC 12V 1.5A	AE
3	USB Cable	N/A	N/A	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

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	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	May 11, 2021	May 10, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
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	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
Power sensor	Aglient	U2021XA	MY54110007	Mar. 04, 2022	Mar. 03, 2023
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Mar. 21, 2022	Mar. 20, 2023
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 19, 2021	Sep. 18, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

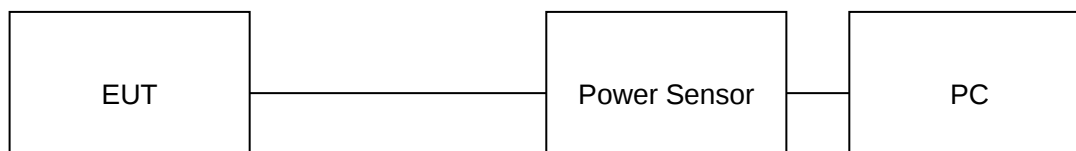
For average power test:

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				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	9.18	23.98	Pass
	5200	9.04	23.98	Pass
	5240	9.44	23.98	Pass
802.11n20	5180	8.71	23.98	Pass
	5200	8.83	23.98	Pass
	5240	9.02	23.98	Pass
802.11n40	5190	9.12	23.98	Pass
	5230	9.48	23.98	Pass
802.11ac20	5180	8.78	23.98	Pass
	5200	8.80	23.98	Pass
	5240	9.06	23.98	Pass
802.11ac40	5190	9.11	23.98	Pass
	5230	9.30	23.98	Pass
802.11ac80	5210	9.32	23.98	Pass

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Test Data of Conducted Output Power for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	9.24	23.98	Pass
	5300	9.44	23.98	Pass
	5320	9.78	23.98	Pass
802.11n20	5260	9.06	23.98	Pass
	5300	9.22	23.98	Pass
	5320	9.29	23.98	Pass
802.11n40	5270	9.39	23.98	Pass
	5310	9.74	23.98	Pass
802.11ac20	5260	9.05	23.98	Pass
	5300	9.35	23.98	Pass
	5320	9.35	23.98	Pass
802.11ac40	5270	9.61	23.98	Pass
	5310	9.79	23.98	Pass
802.11ac80	5290	9.78	23.98	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	7.81	30	Pass
	5785	8.36	30	Pass
	5825	8.47	30	Pass
802.11n20	5745	7.54	30	Pass
	5785	7.73	30	Pass
	5825	7.99	30	Pass
802.11n40	5755	8.17	30	Pass
	5795	8.49	30	Pass
802.11ac20	5745	7.58	30	Pass
	5785	7.93	30	Pass
	5825	8.15	30	Pass
802.11ac40	5755	8.11	30	Pass
	5795	8.50	30	Pass
802.11ac80	5775	8.32	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 $\geq 3 \times \text{RBW}$. 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:

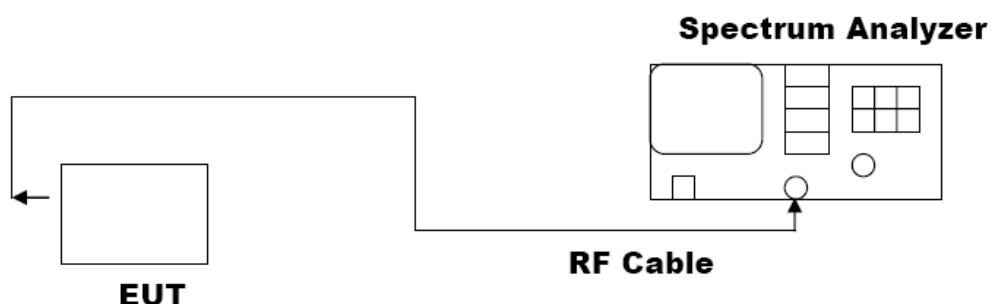
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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 $> \text{RBW}$.
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					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.582	21.335	N/A	Pass
	5200	16.587	21.027	N/A	Pass
	5240	16.570	21.276	N/A	Pass
802.11n20	5180	17.756	21.492	N/A	Pass
	5200	17.760	21.291	N/A	Pass
	5240	17.733	21.507	N/A	Pass
802.11n40	5190	36.181	39.582	N/A	Pass
	5230	36.174	39.398	N/A	Pass
802.11ac20	5180	17.734	21.197	N/A	Pass
	5200	17.731	21.335	N/A	Pass
	5240	17.731	21.653	N/A	Pass
802.11ac40	5190	36.159	39.528	N/A	Pass
	5230	36.146	39.237	N/A	Pass
802.11ac80	5210	75.589	81.492	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.572	21.087	N/A	Pass
	5300	16.568	21.146	N/A	Pass
	5320	16.584	20.933	N/A	Pass
802.11n20	5260	17.714	21.309	N/A	Pass
	5300	17.754	21.228	N/A	Pass
	5320	17.712	20.913	N/A	Pass
802.11n40	5270	36.158	39.379	N/A	Pass
	5310	36.148	39.409	N/A	Pass
802.11ac20	5260	17.743	21.348	N/A	Pass
	5300	17.703	21.198	N/A	Pass
	5320	17.725	21.097	N/A	Pass
802.11ac40	5270	36.169	39.529	N/A	Pass
	5310	36.116	39.637	N/A	Pass
802.11ac80	5290	75.396	80.839	N/A	Pass

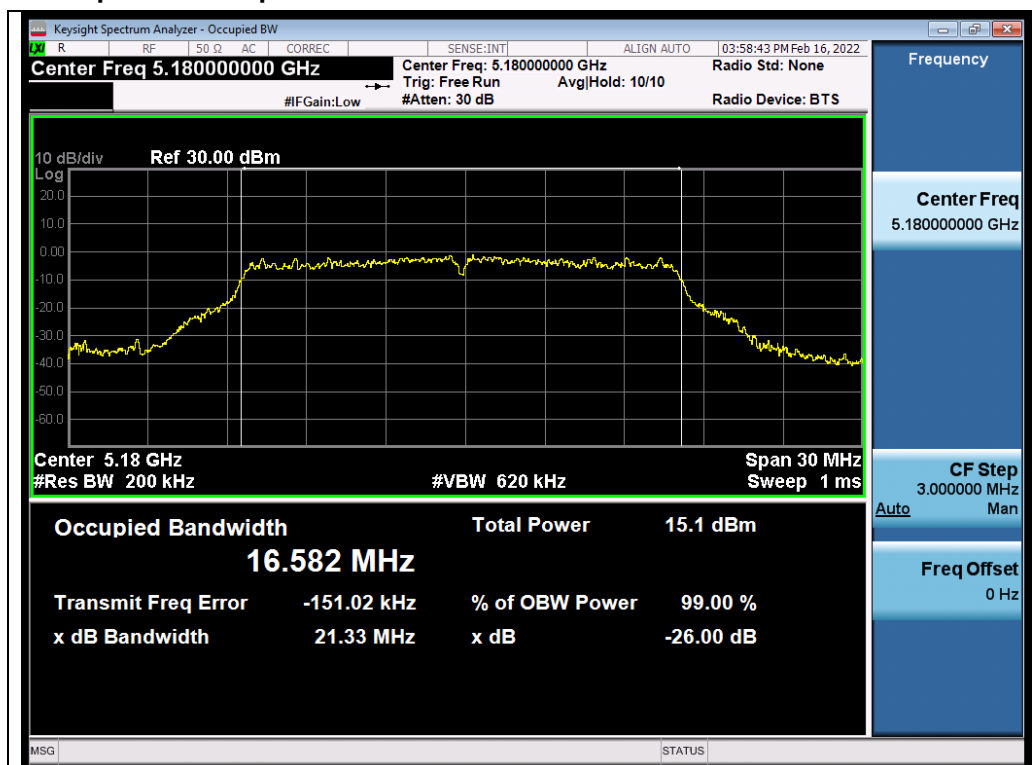
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Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.569	16.344	0.5	Pass
	5785	16.586	16.328	0.5	Pass
	5825	16.574	16.328	0.5	Pass
802.11n20	5745	17.712	17.535	0.5	Pass
	5785	17.711	17.554	0.5	Pass
	5825	17.736	17.549	0.5	Pass
802.11n40	5755	36.157	36.292	0.5	Pass
	5795	36.126	36.316	0.5	Pass
802.11ac20	5745	17.743	17.561	0.5	Pass
	5785	17.748	17.524	0.5	Pass
	5825	17.739	17.537	0.5	Pass
802.11ac40	5755	36.148	36.309	0.5	Pass
	5795	36.121	36.280	0.5	Pass
802.11ac80	5775	75.545	75.575	0.5	Pass

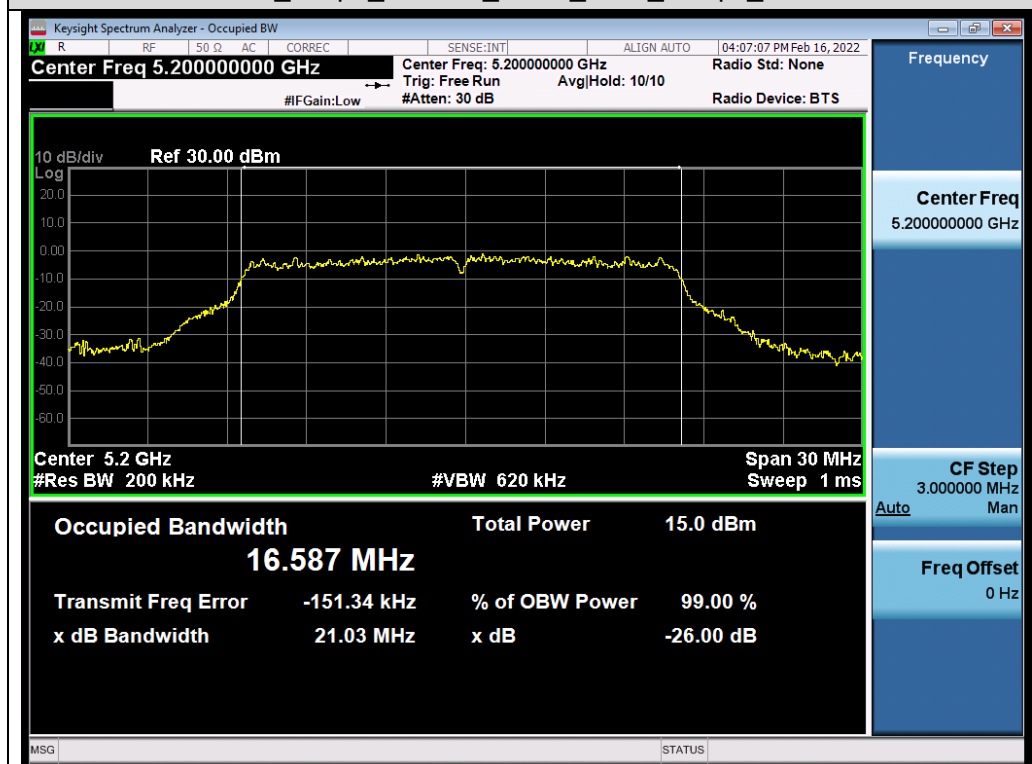
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz

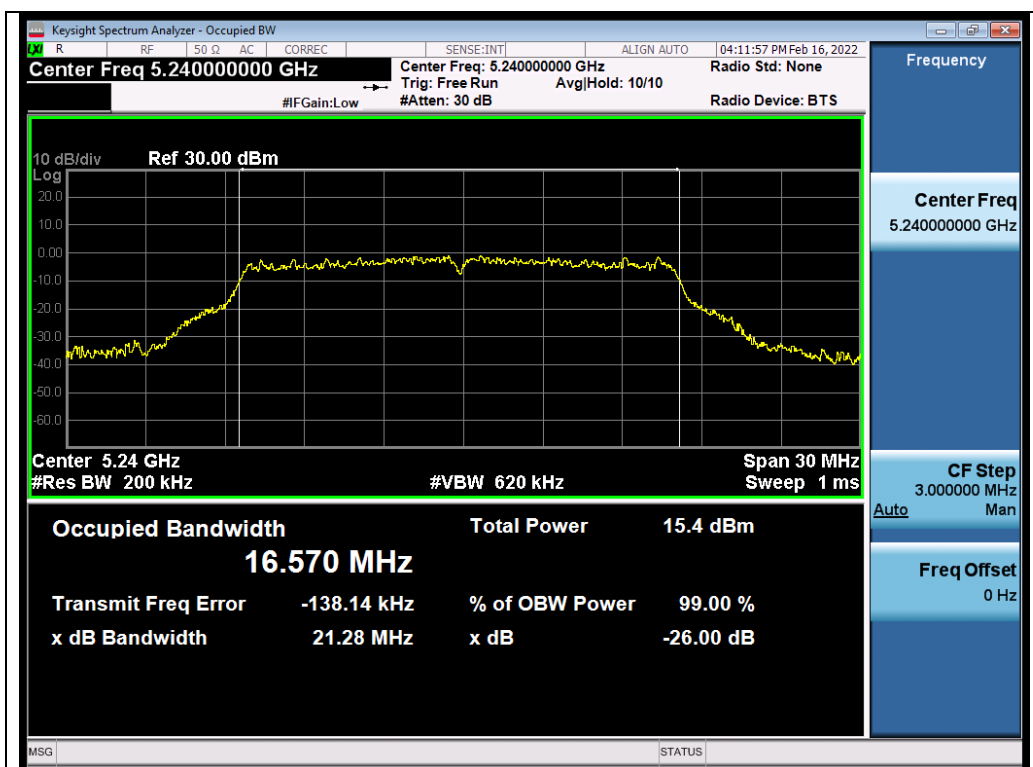


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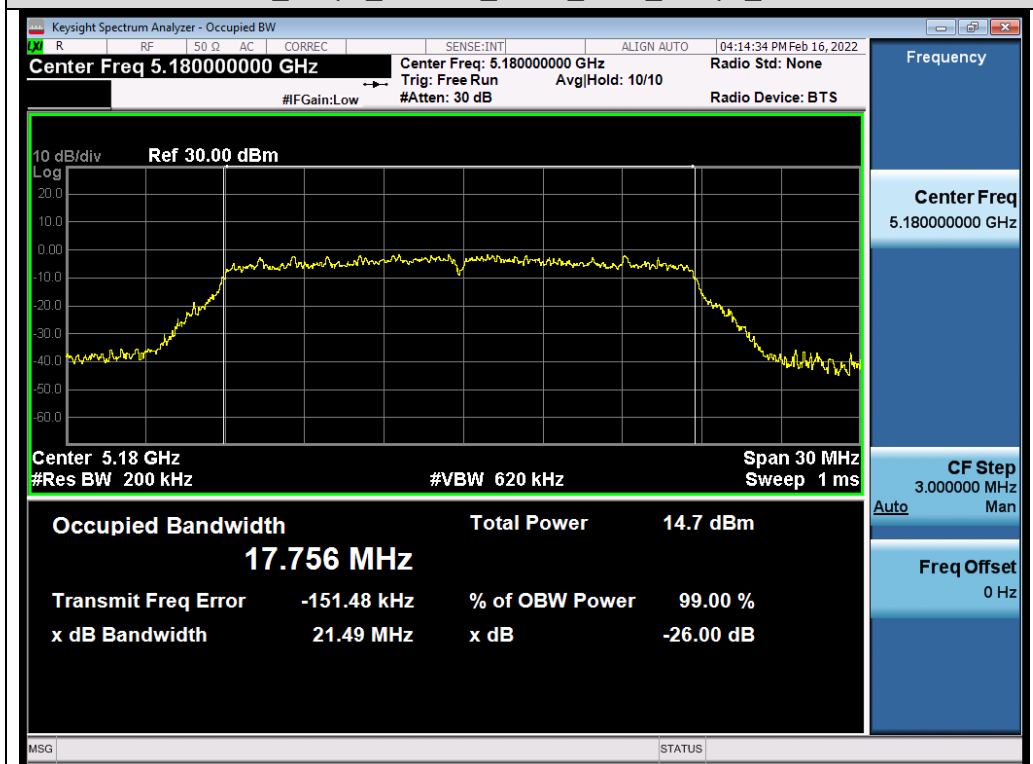


Test_Graph_802.11a_ANT1_5200_6Mbps_OBW

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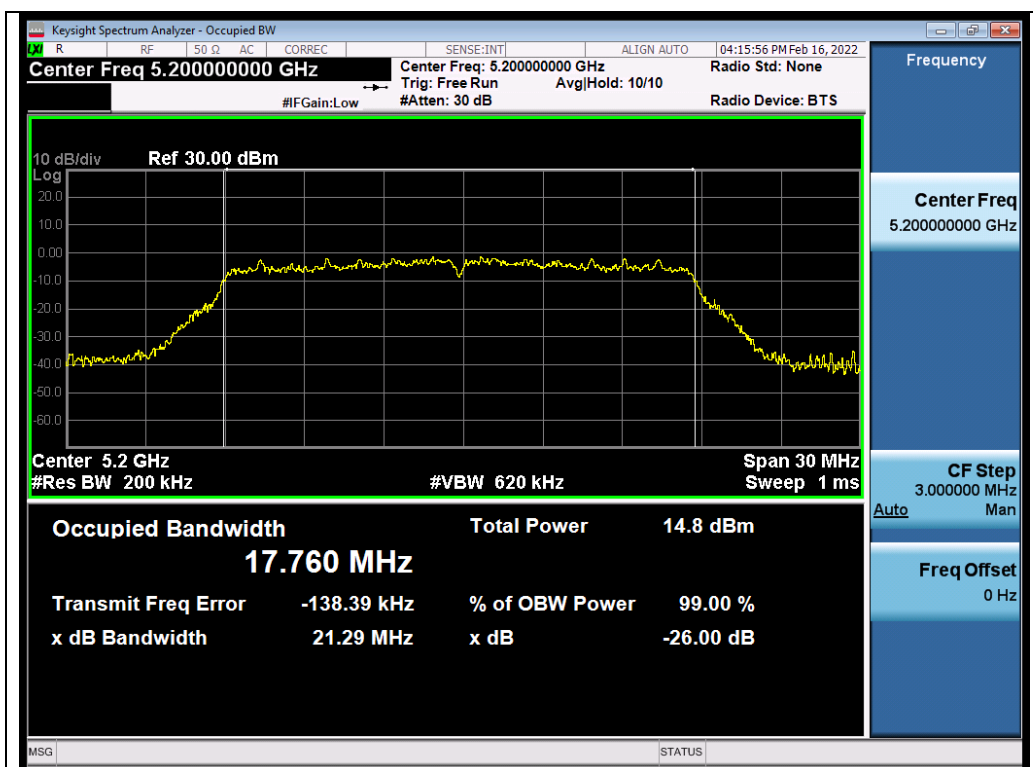
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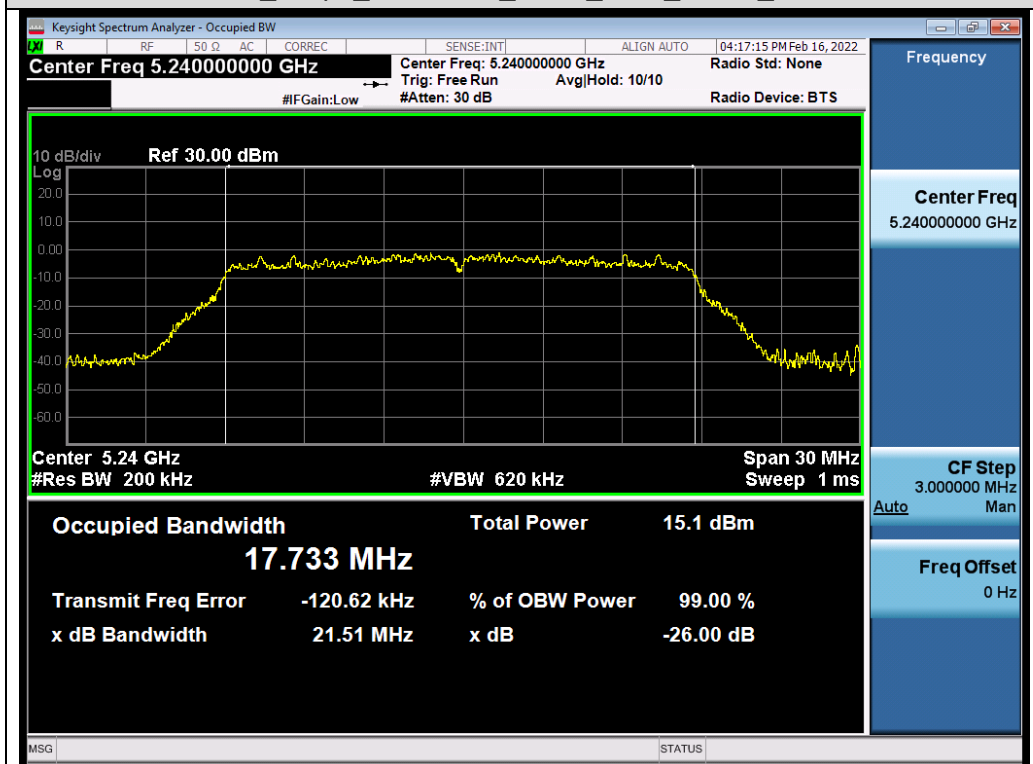
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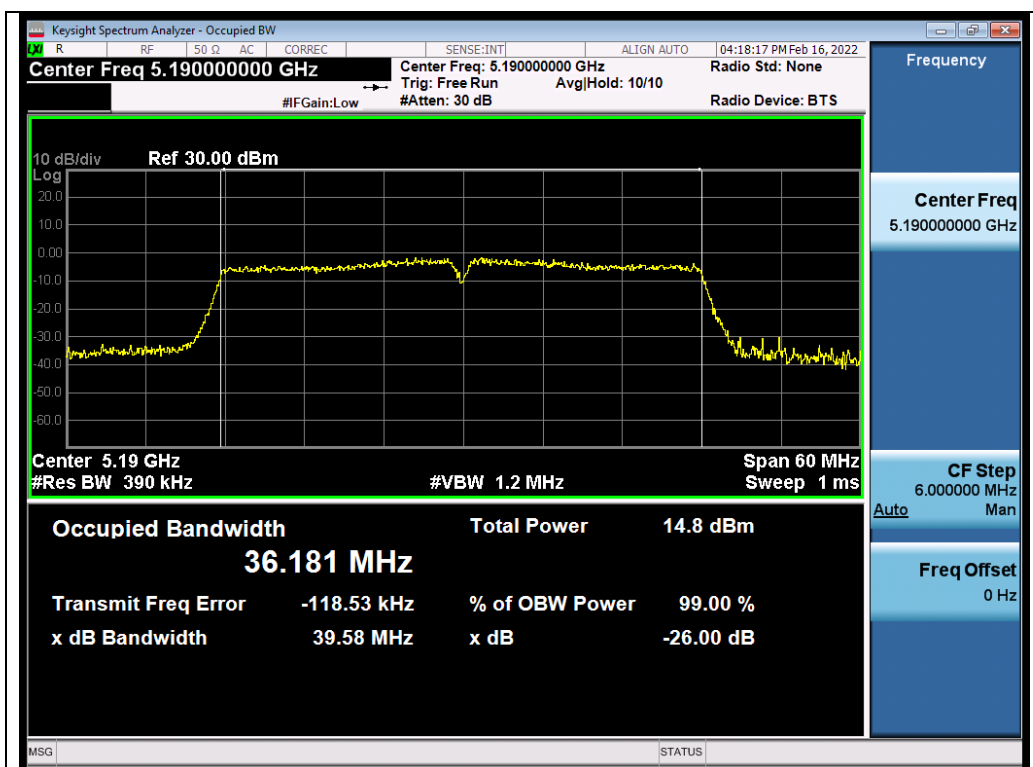


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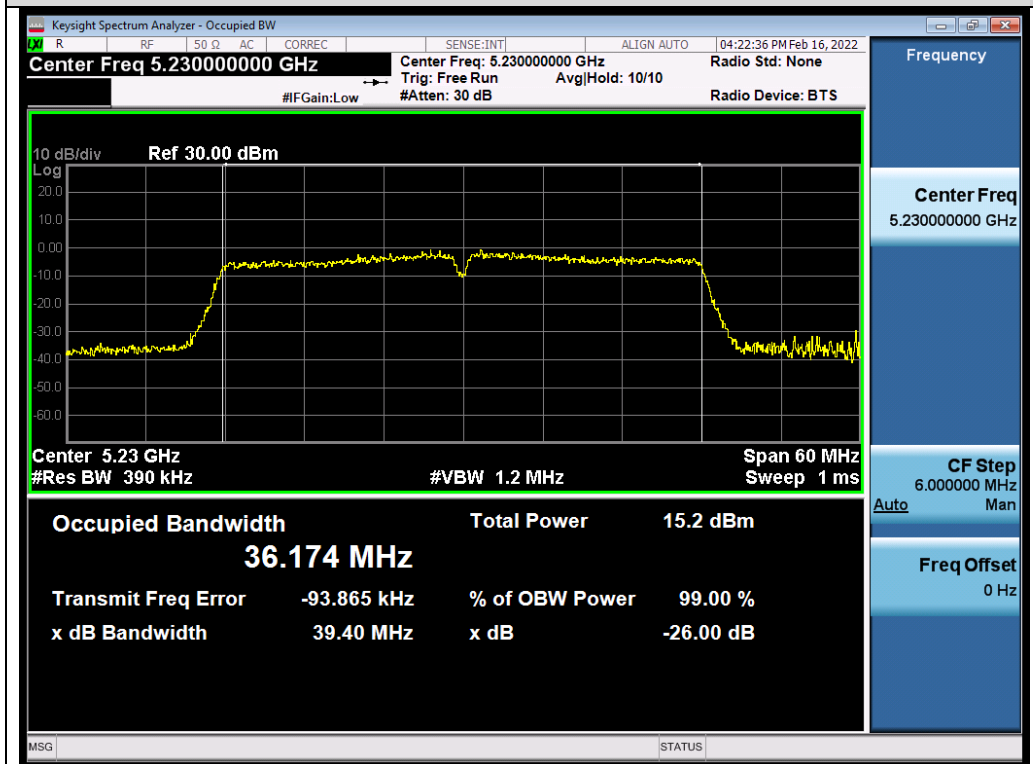


Test_Graph_802.11n20_ANT1_5240_MCS0_OBW

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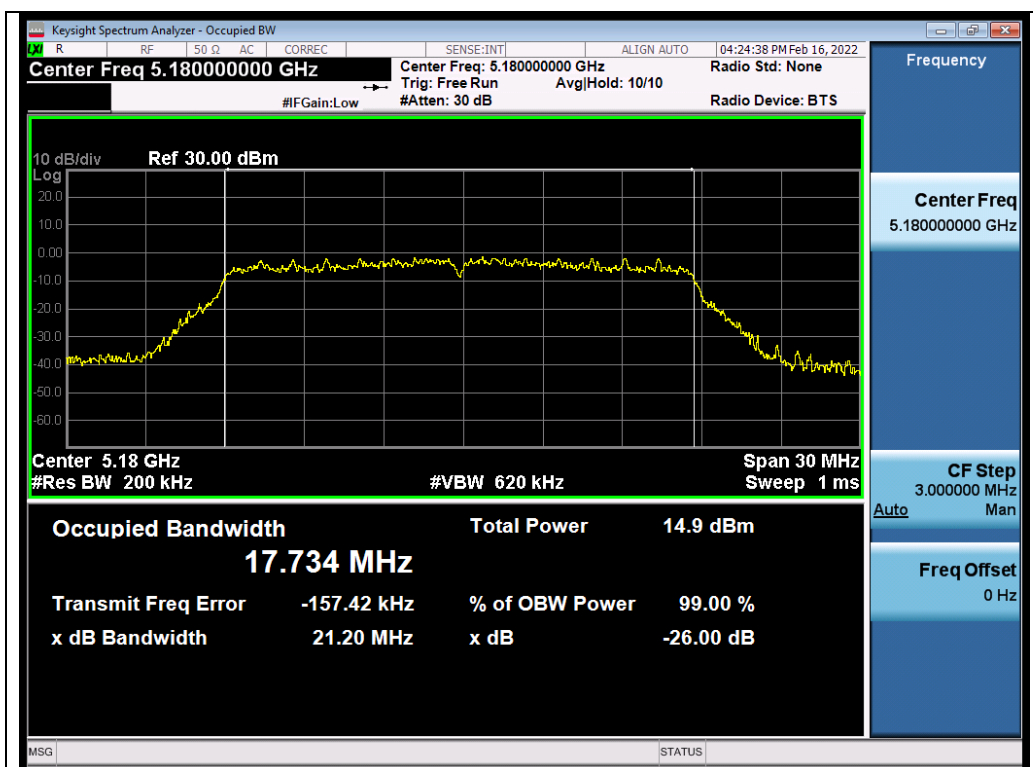


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Test_Graph_802.11n40_ANT1_5230_MCS0_OBW

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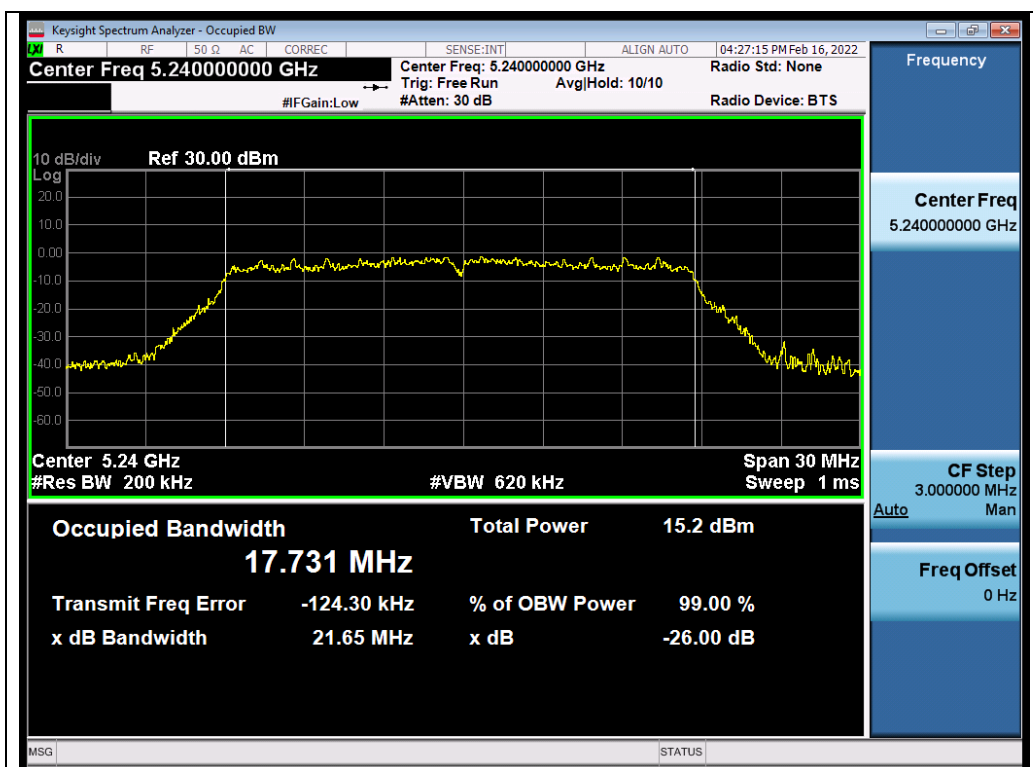
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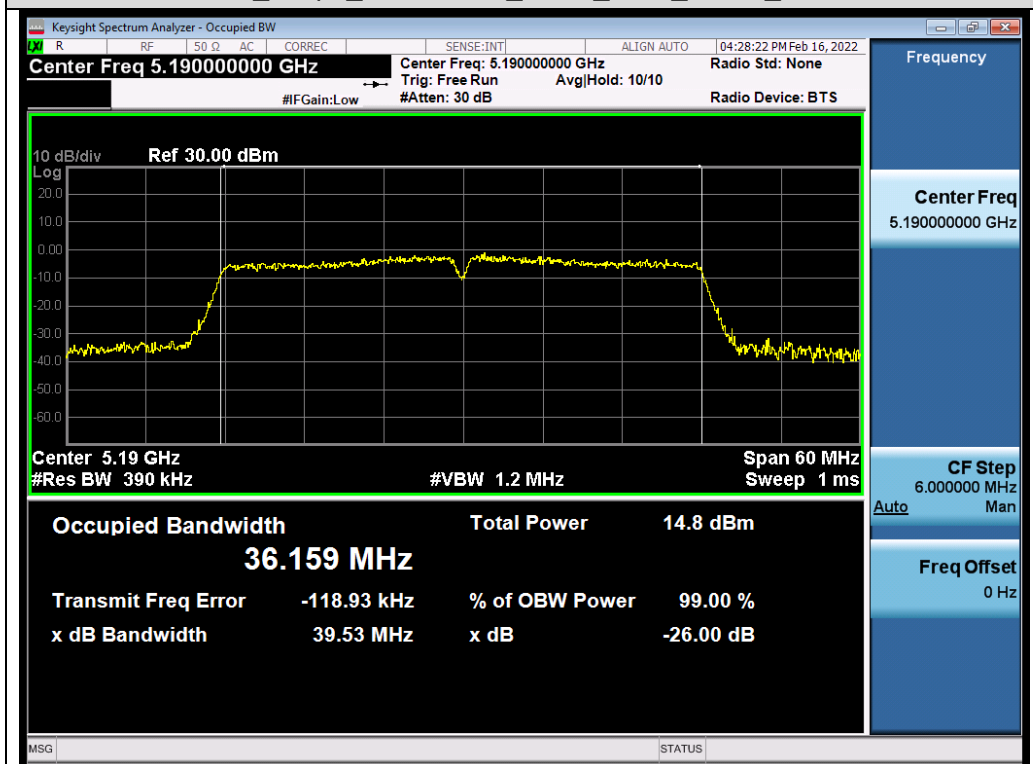
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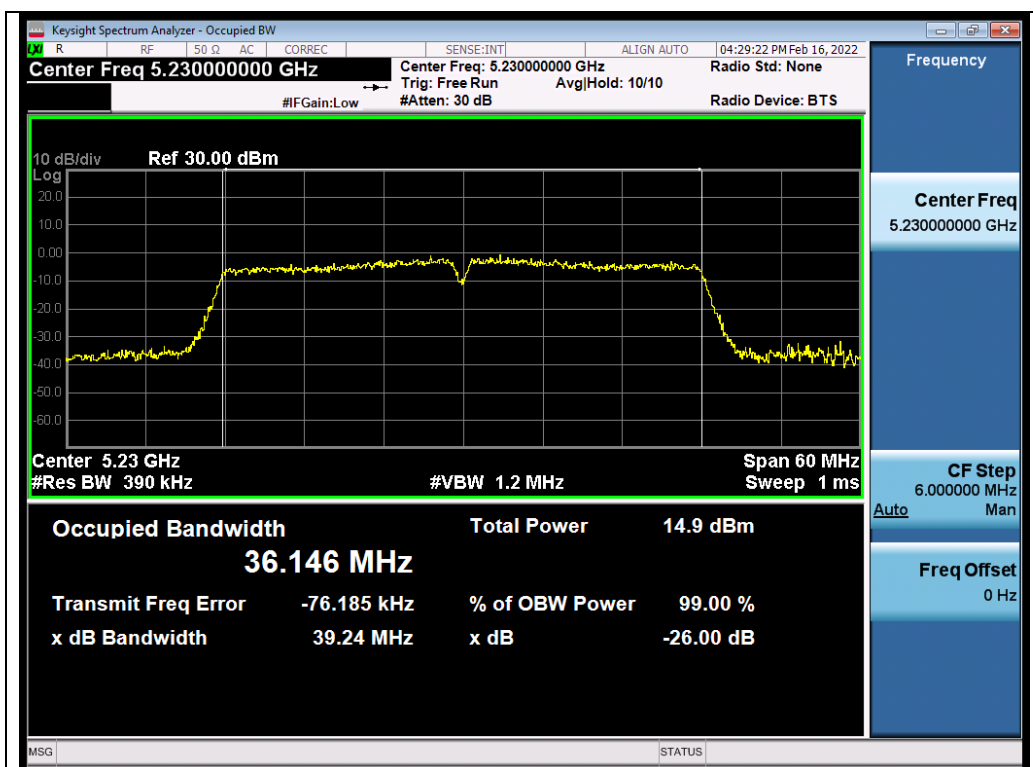


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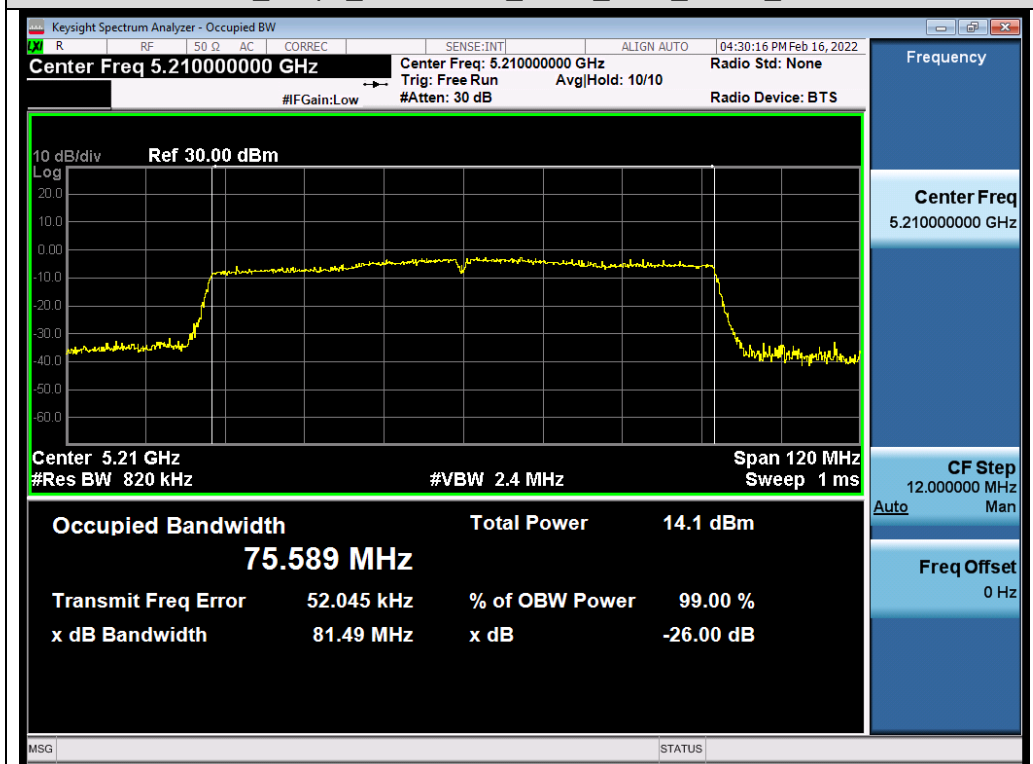


Test_Graph_802.11ac40_ANT1_5190_MCS9_OBW

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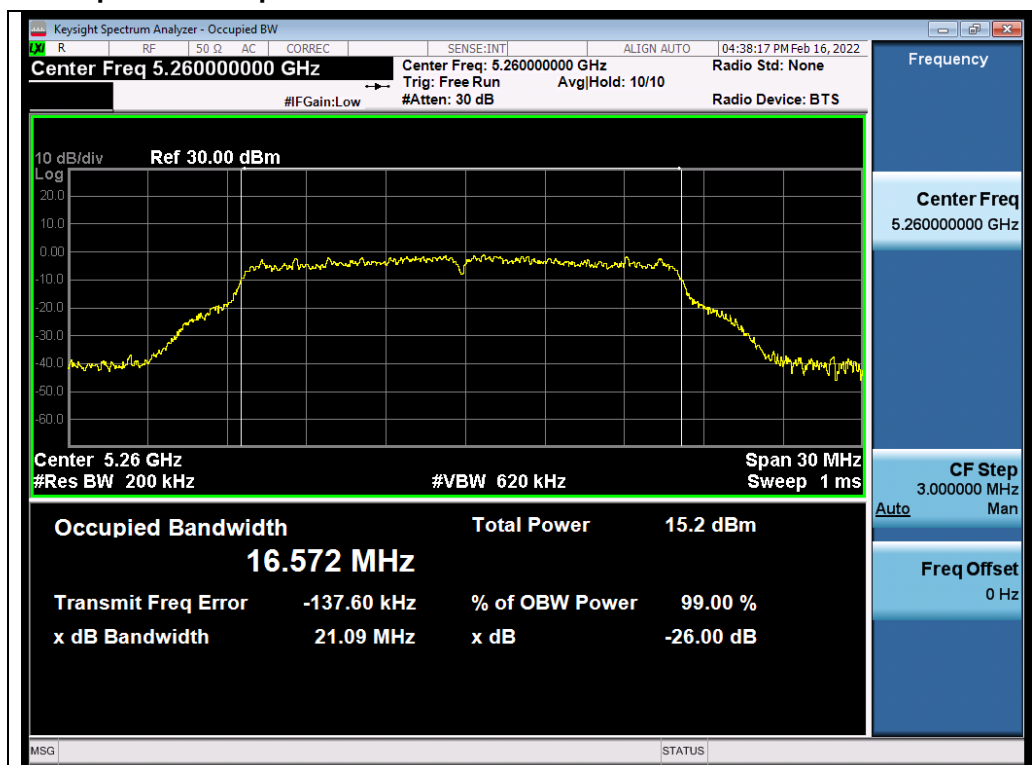
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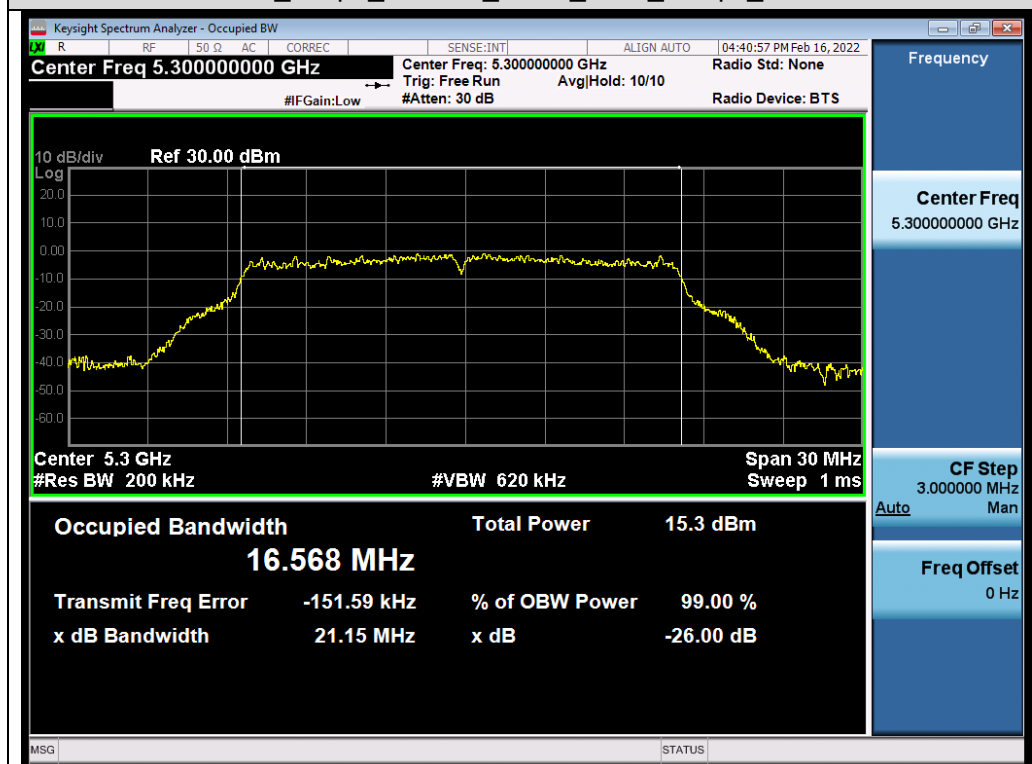
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz

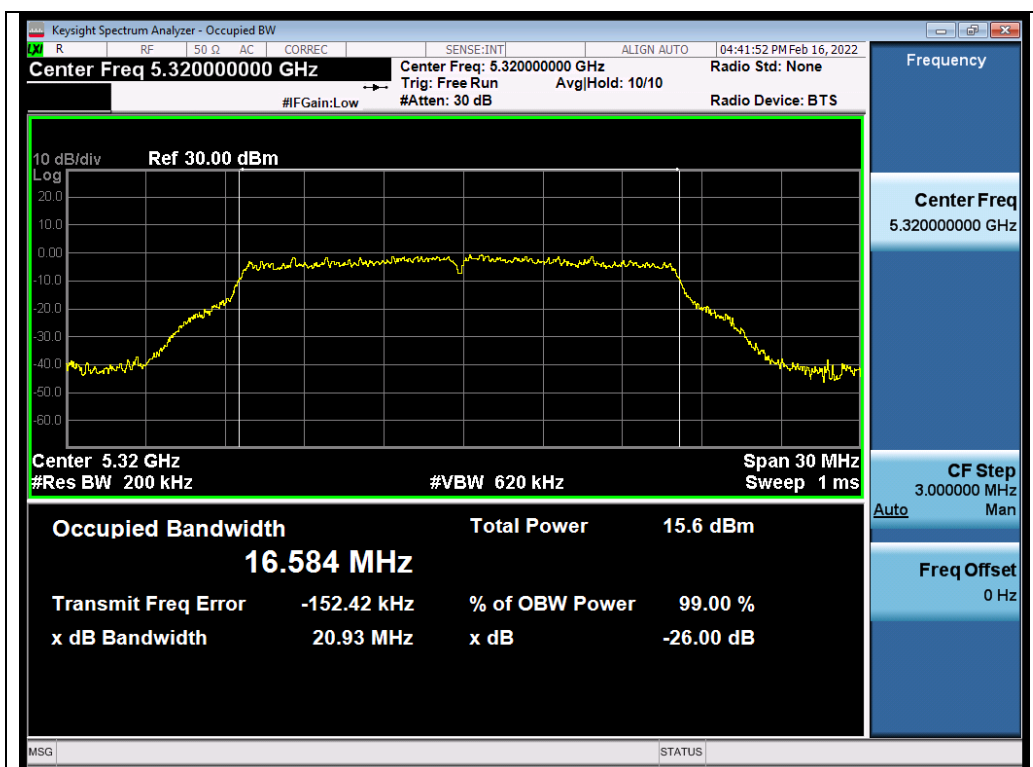


Test_Graph_802.11a_ANT1_5260_6Mbps_OBW

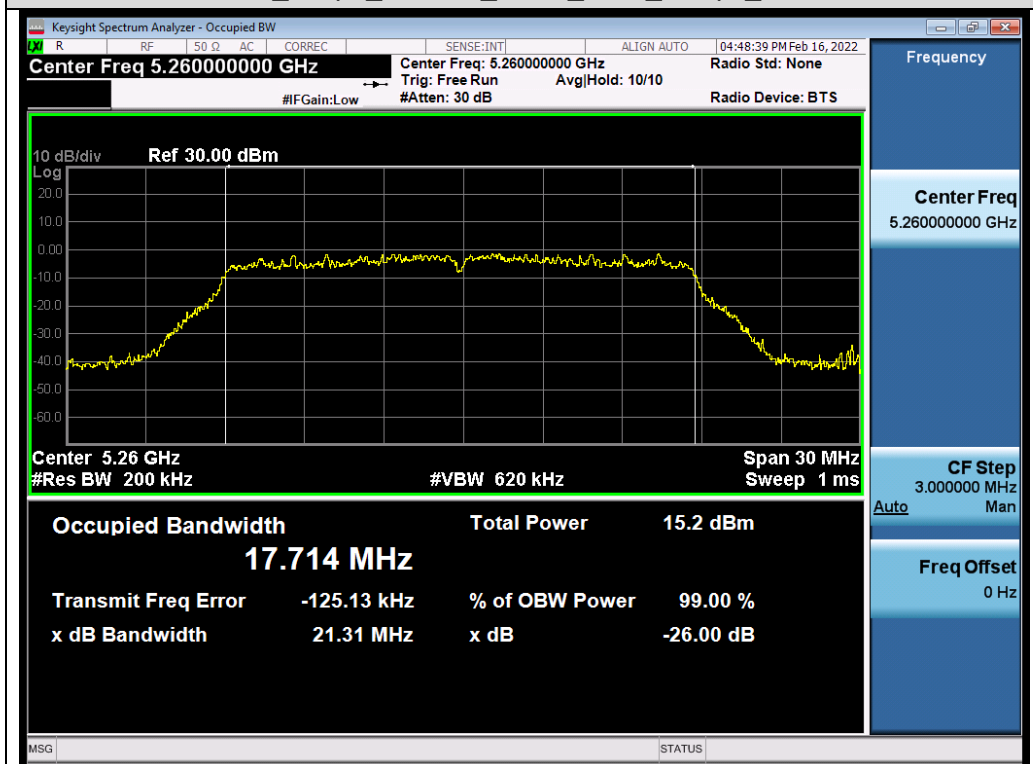


Test_Graph_802.11a_ANT1_5300_6Mbps_OBW

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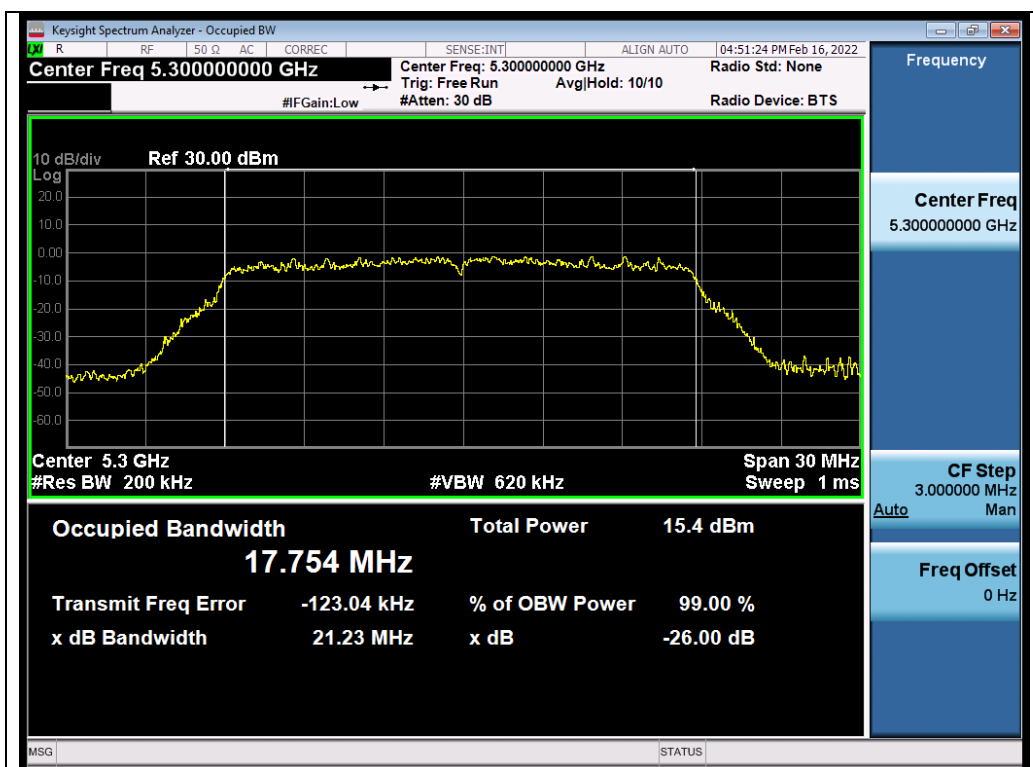


Test_Graph_802.11a_ANT1_5320_6Mbps_OBW

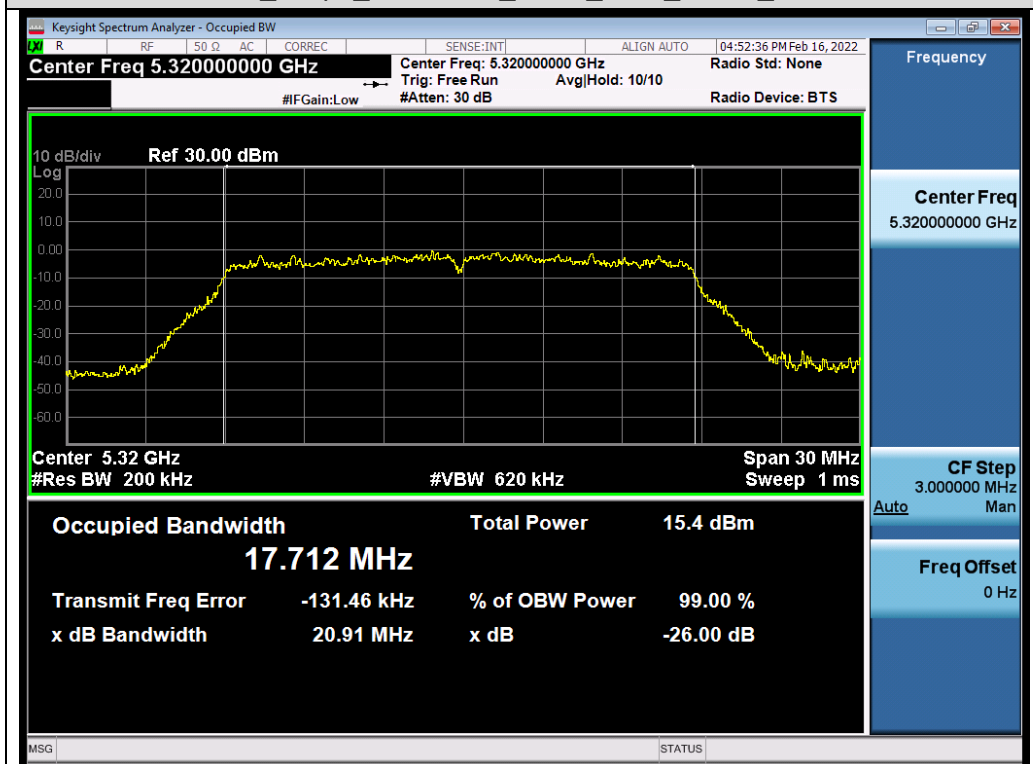


Test_Graph_802.11n20_ANT1_5260_MCS0_OBW

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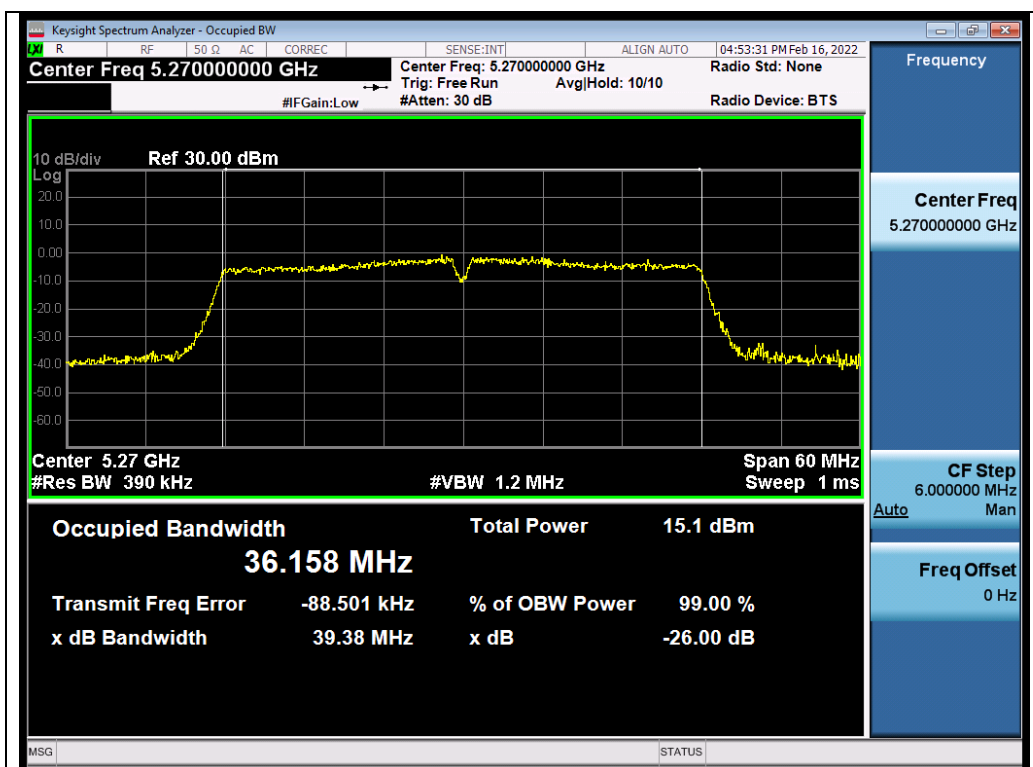


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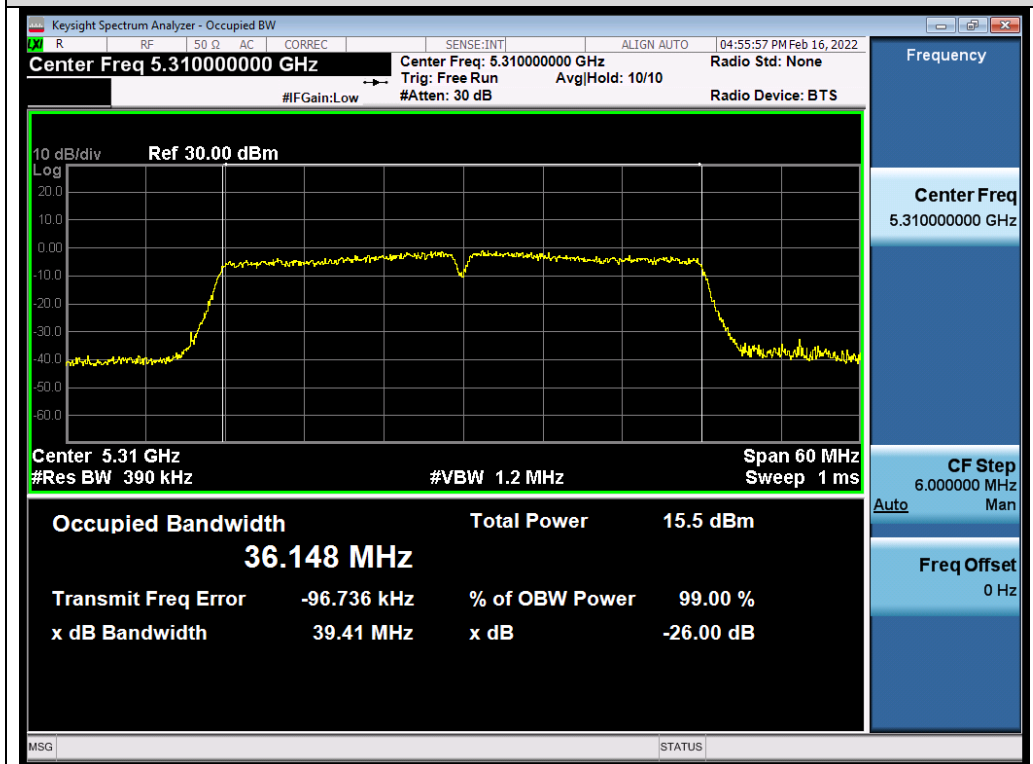


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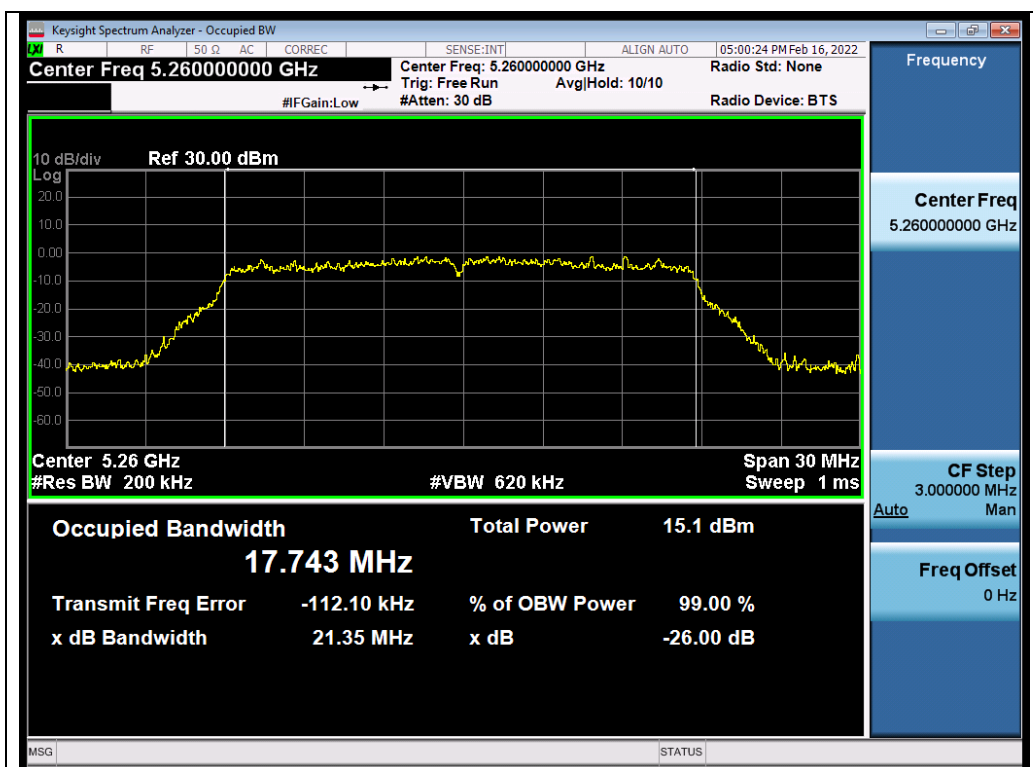


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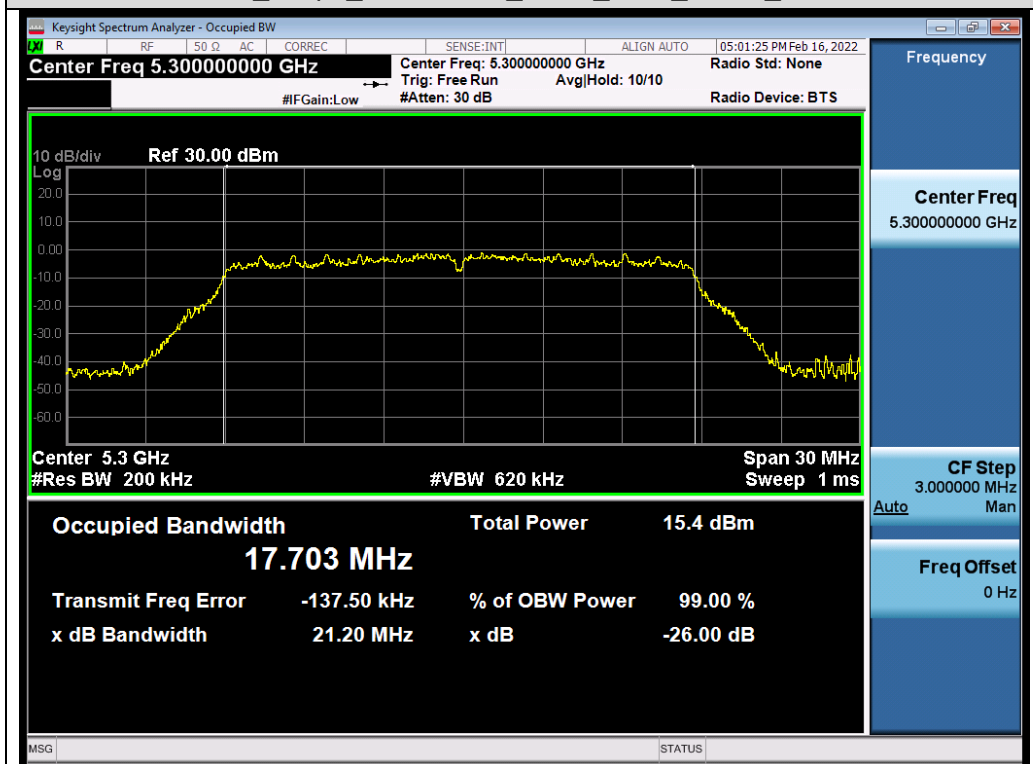


Test_Graph_802.11n40_ANT1_5310_MCS0_OBW

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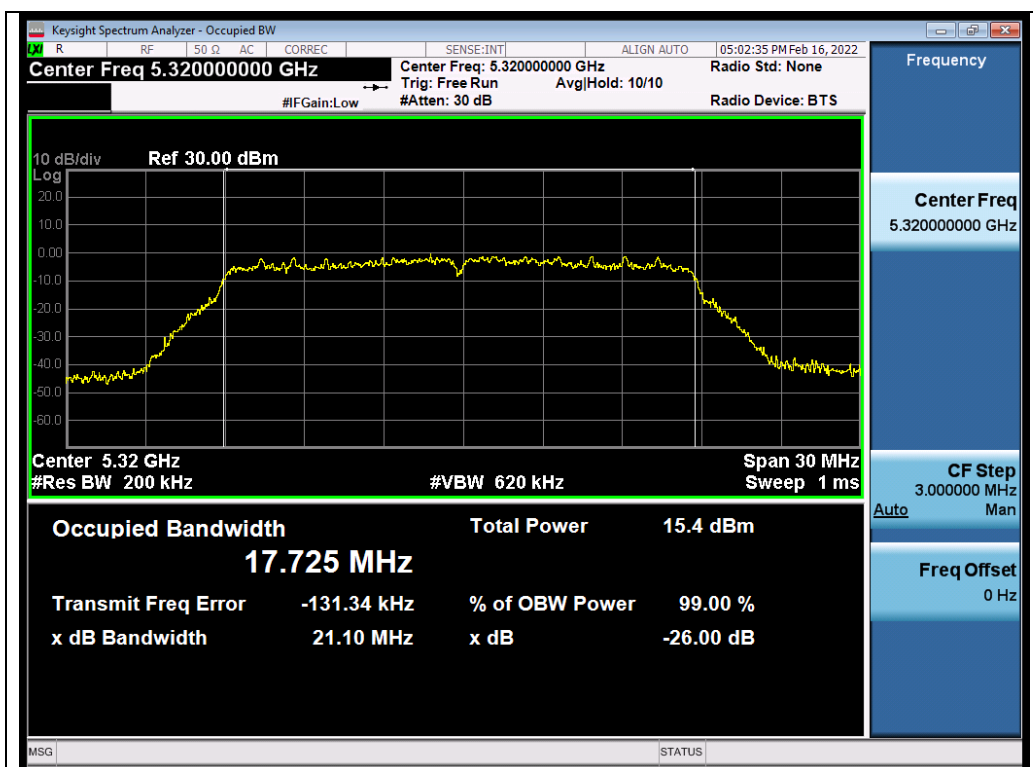


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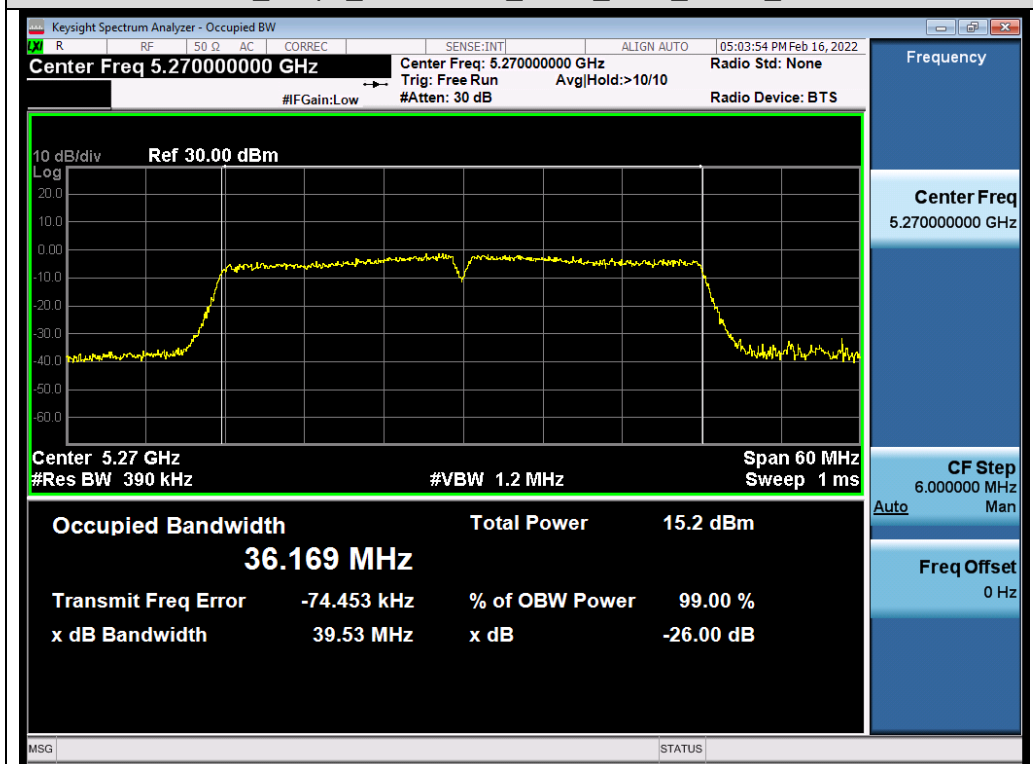


Test_Graph_802.11ac20_ANT1_5300_MCS0_OBW

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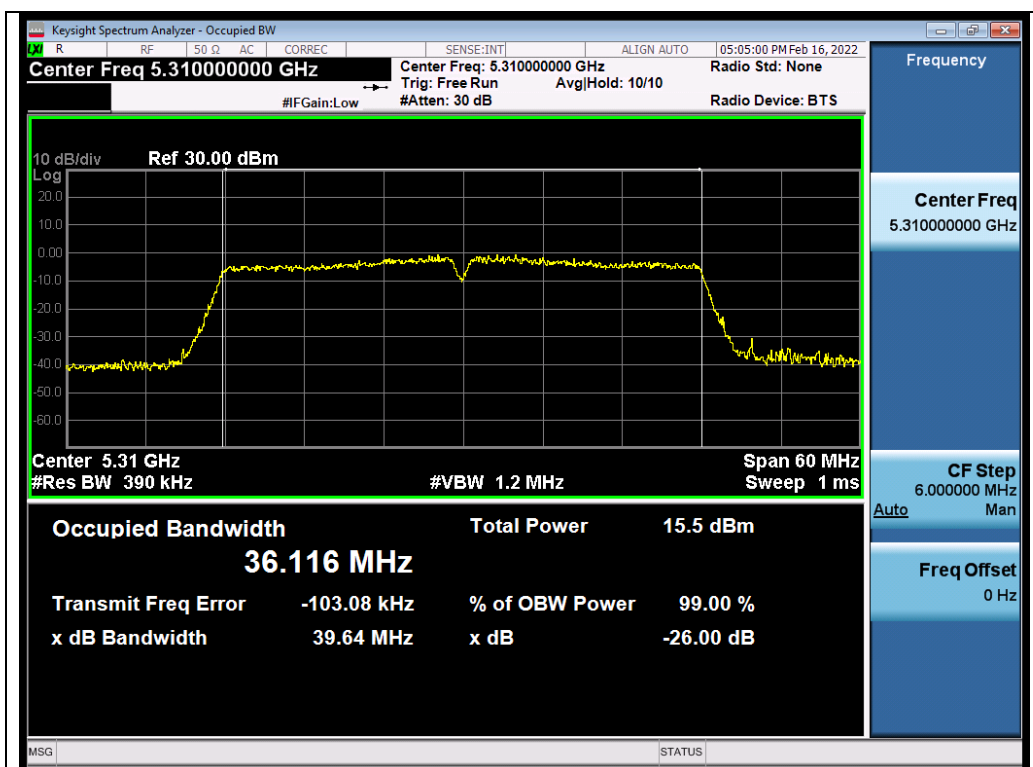


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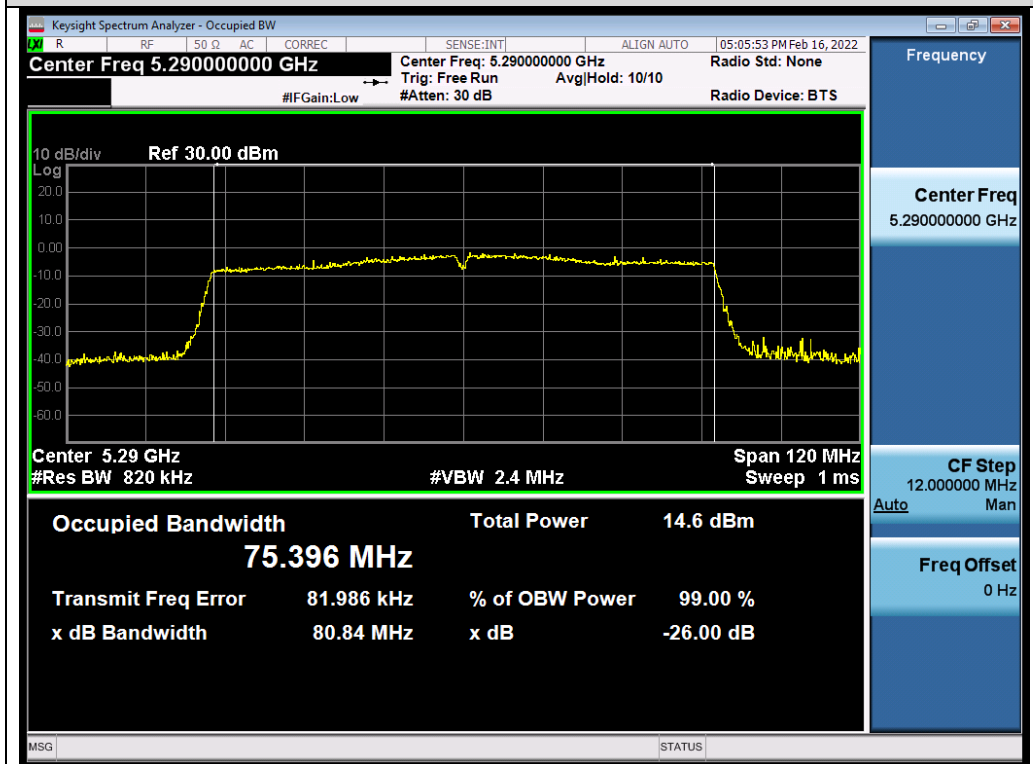


Test_Graph_802.11ac40_ANT1_5270_MCS9_OBW

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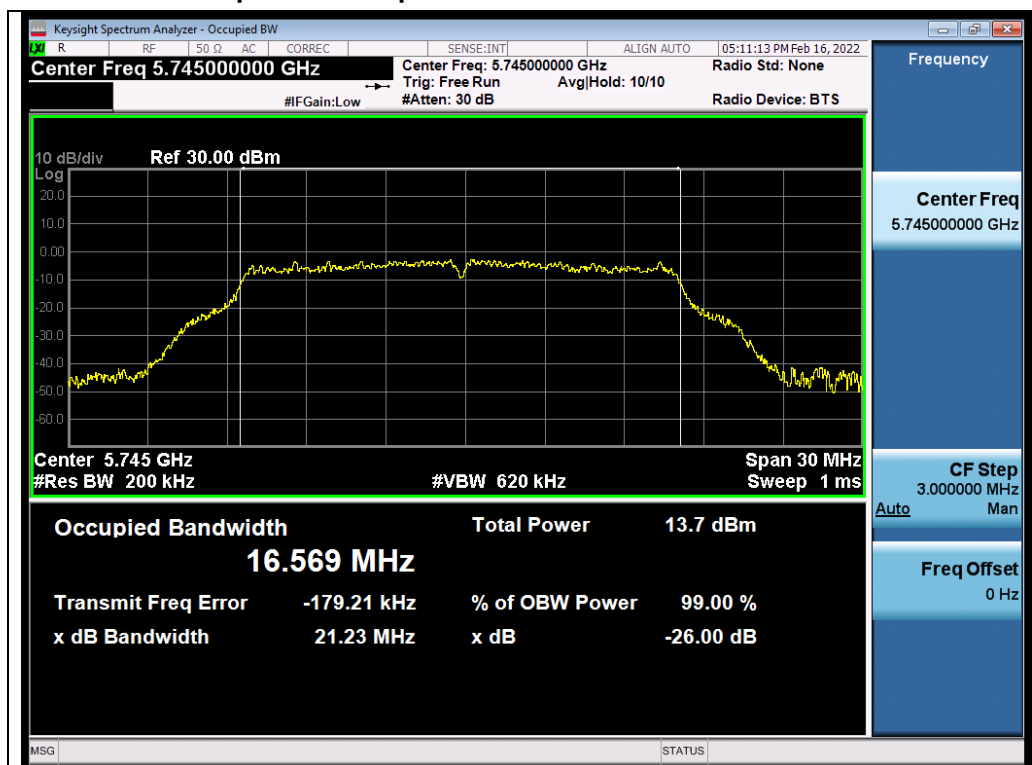
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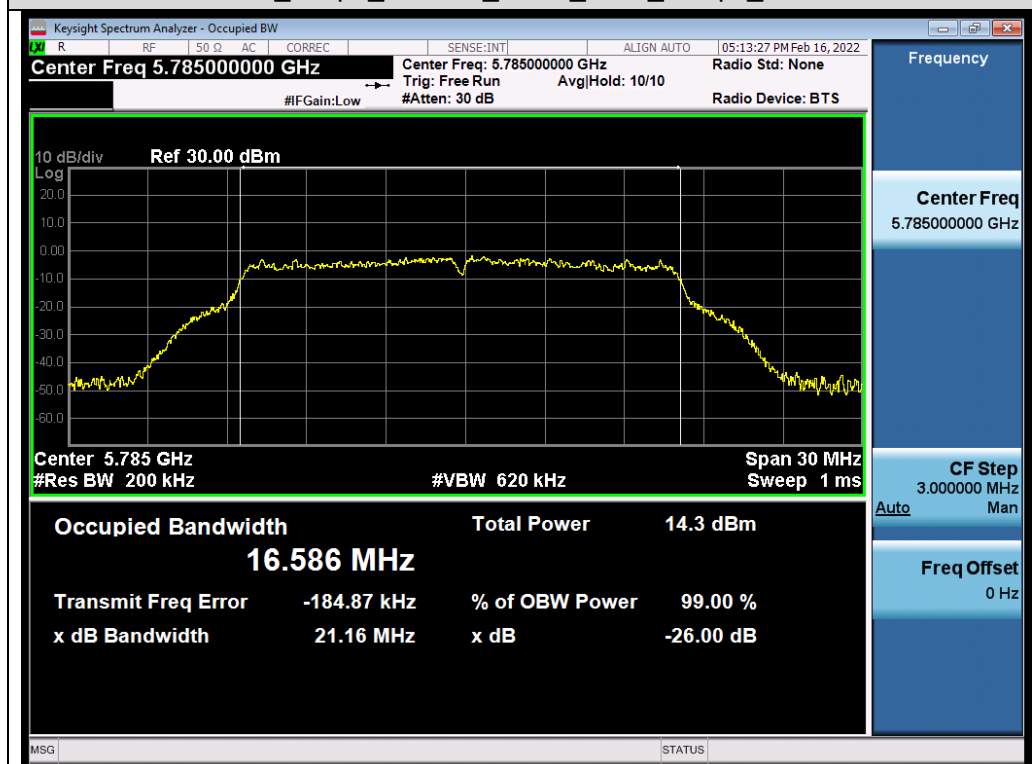
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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz

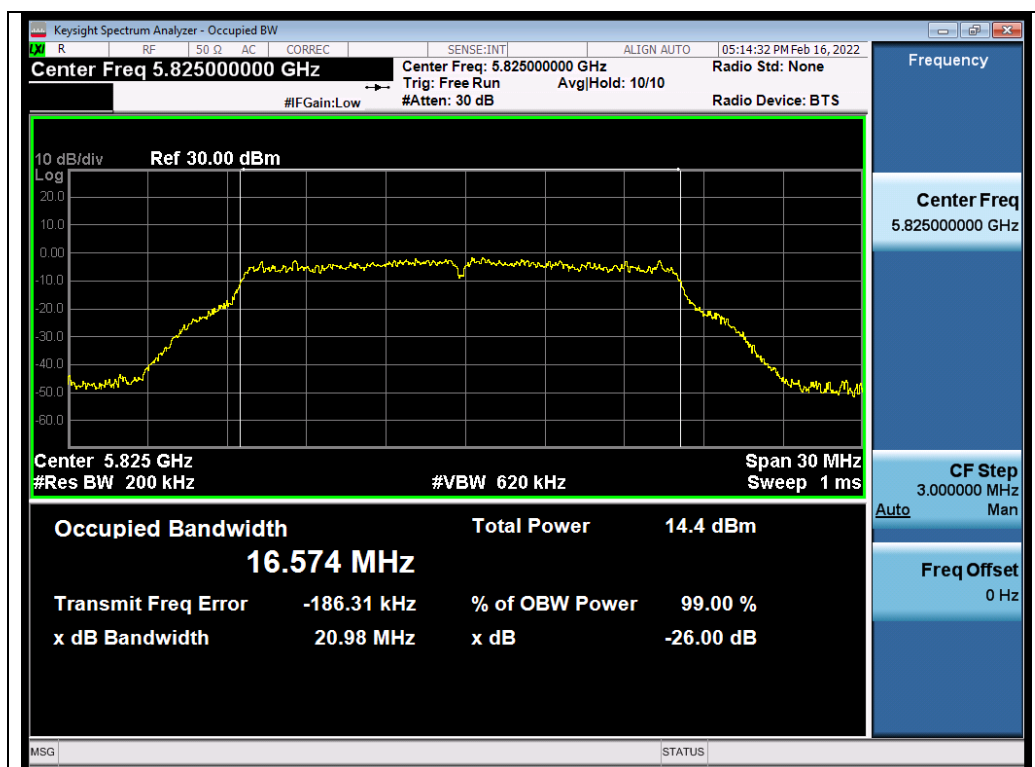


Test_Graph_802.11a_ANT1_5745_6Mbps_OBW

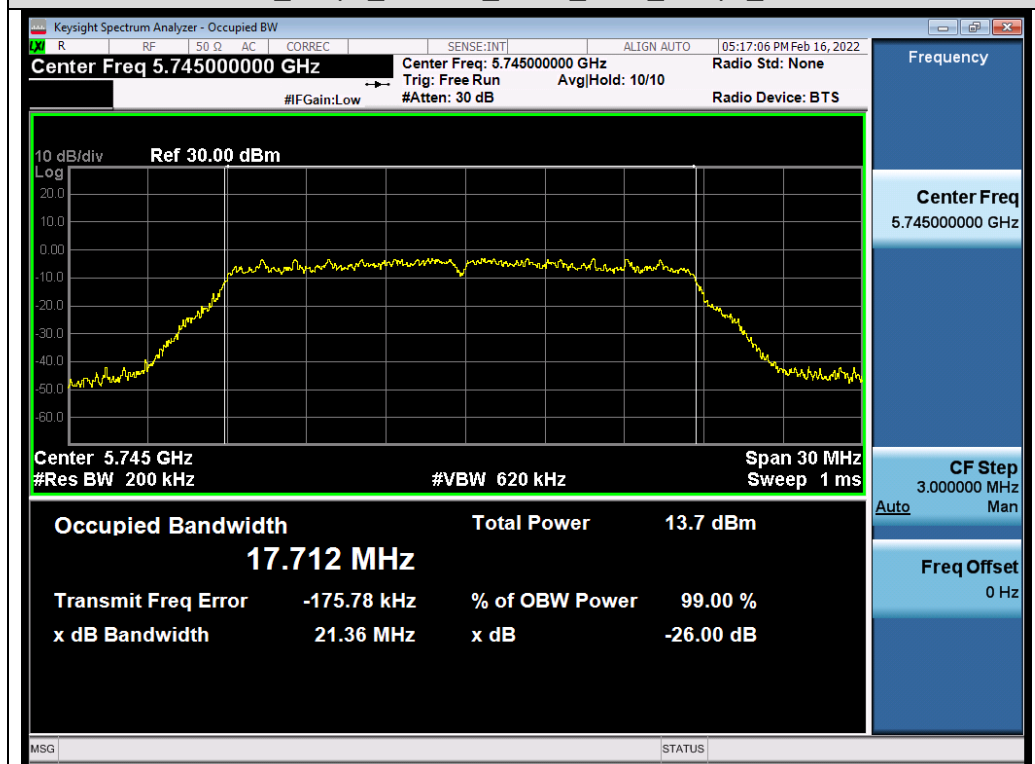


Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

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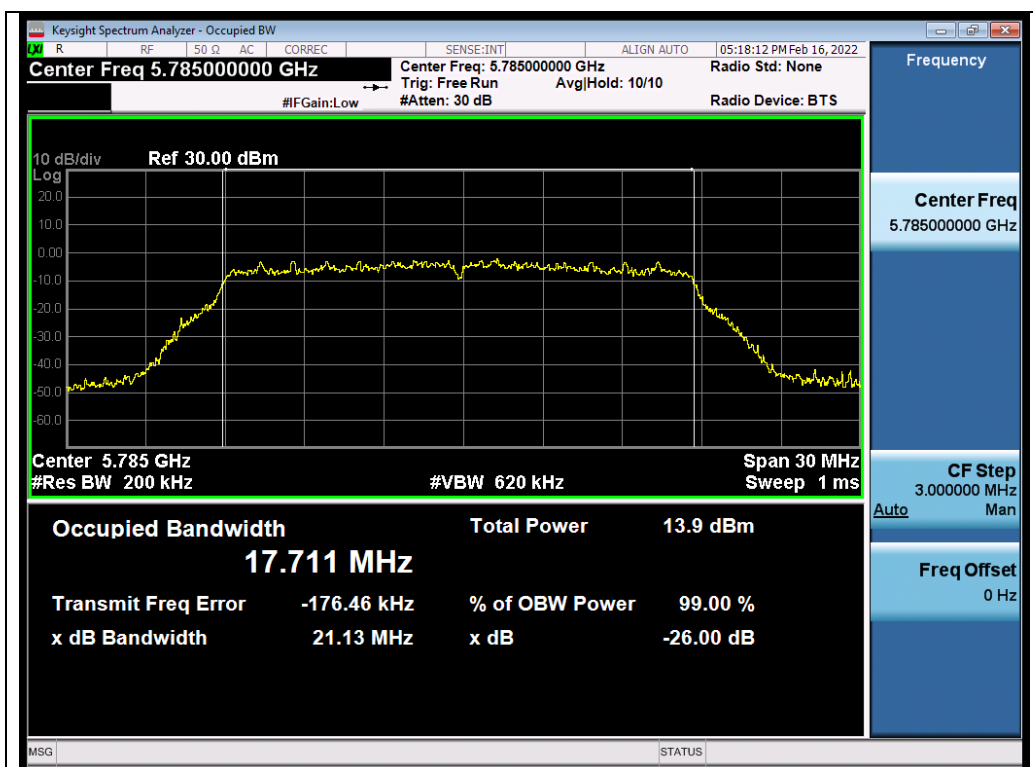


Test_Graph_802.11a_ANT1_5825_6Mbps_OBW

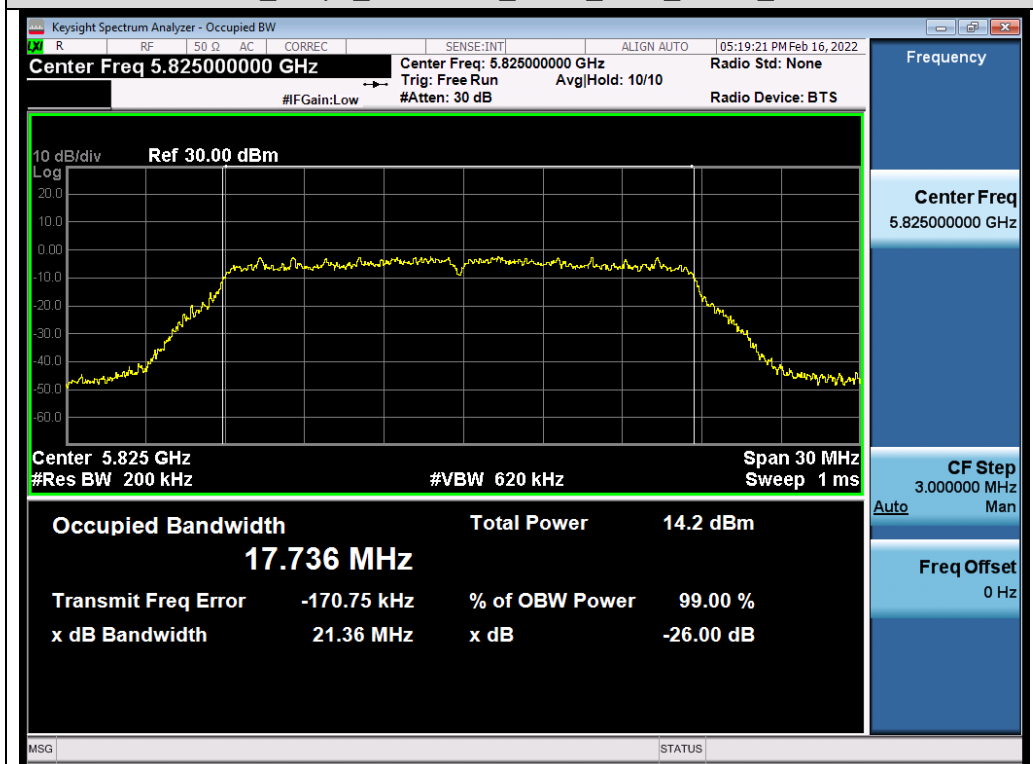


Test_Graph_802.11n20_ANT1_5745_MCS0_OBW

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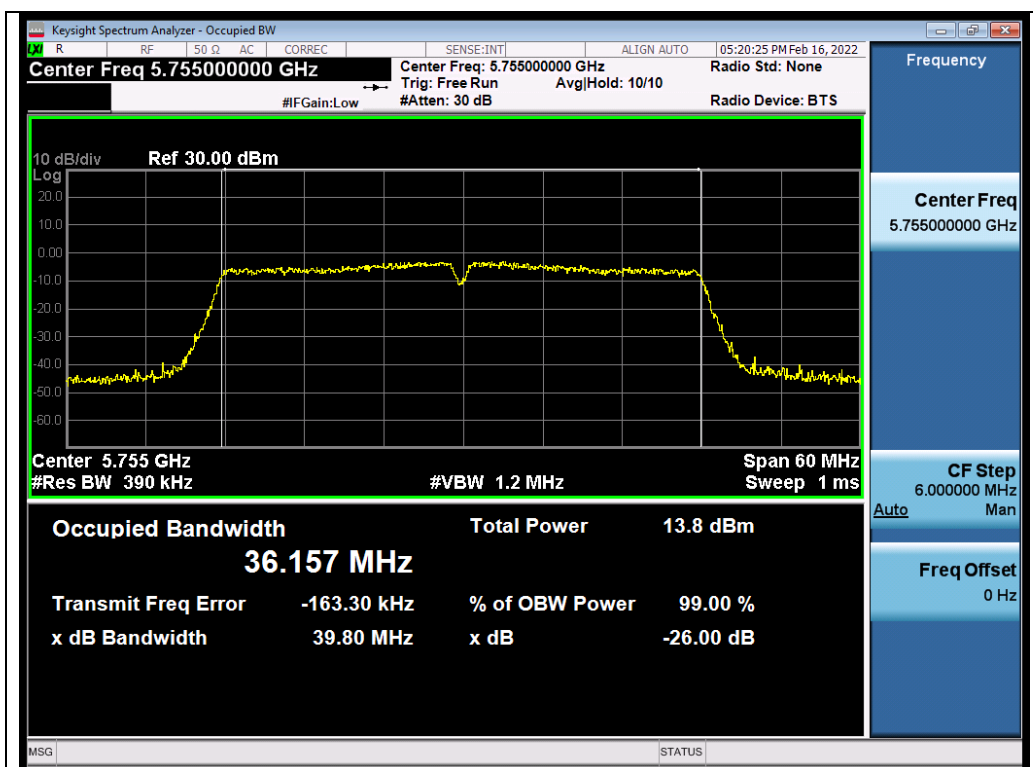


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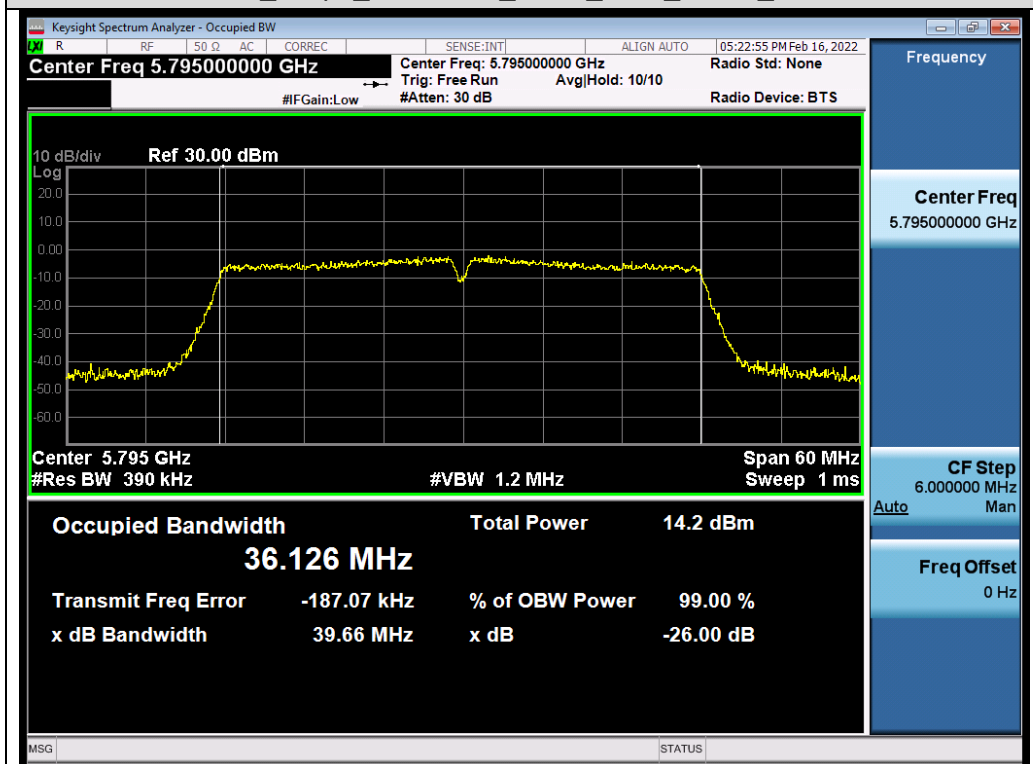


Test_Graph_802.11n20_ANT1_5825_MCS0_OBW

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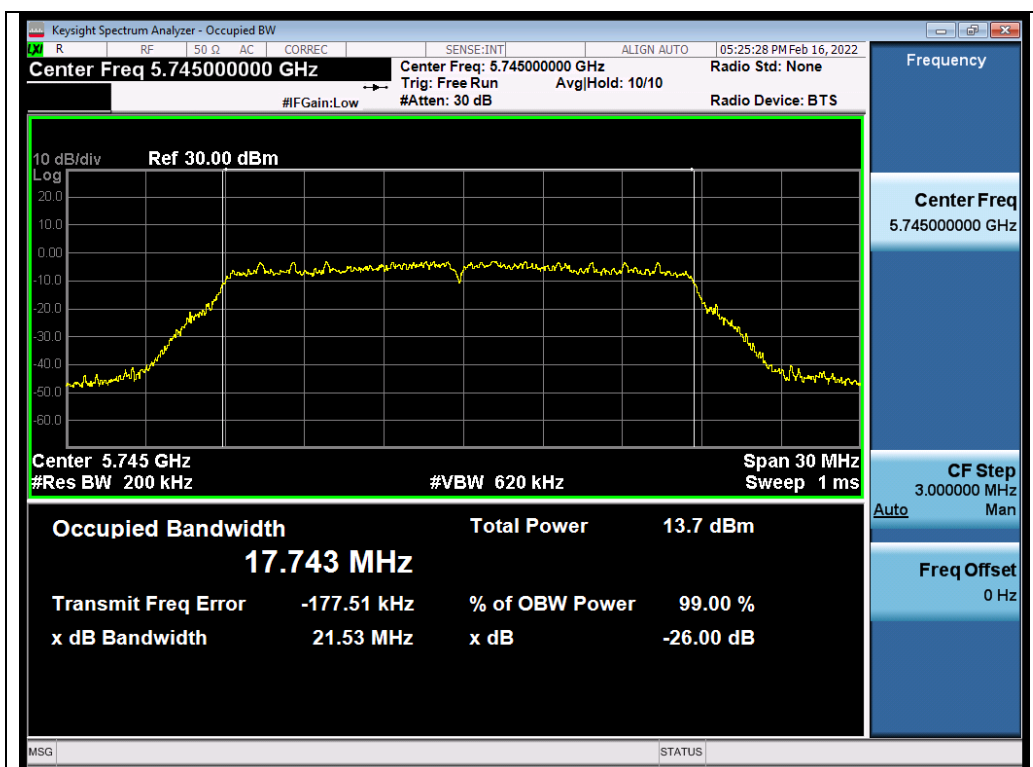


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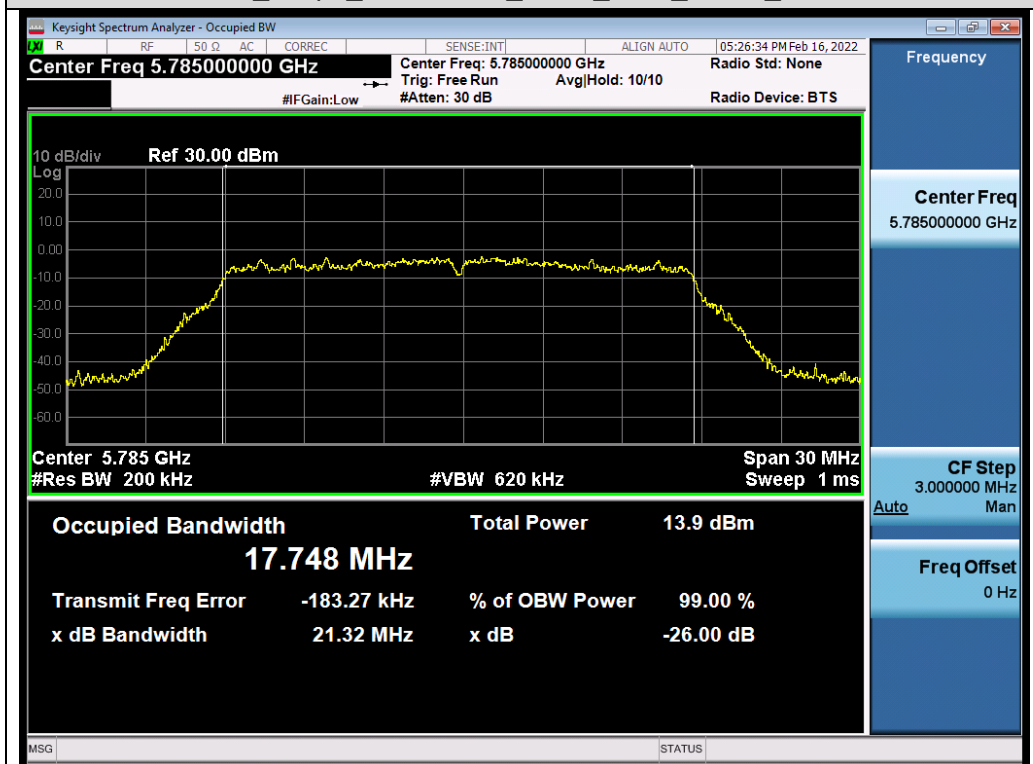


Test_Graph_802.11n40_ANT1_5795_MCS0_OBW

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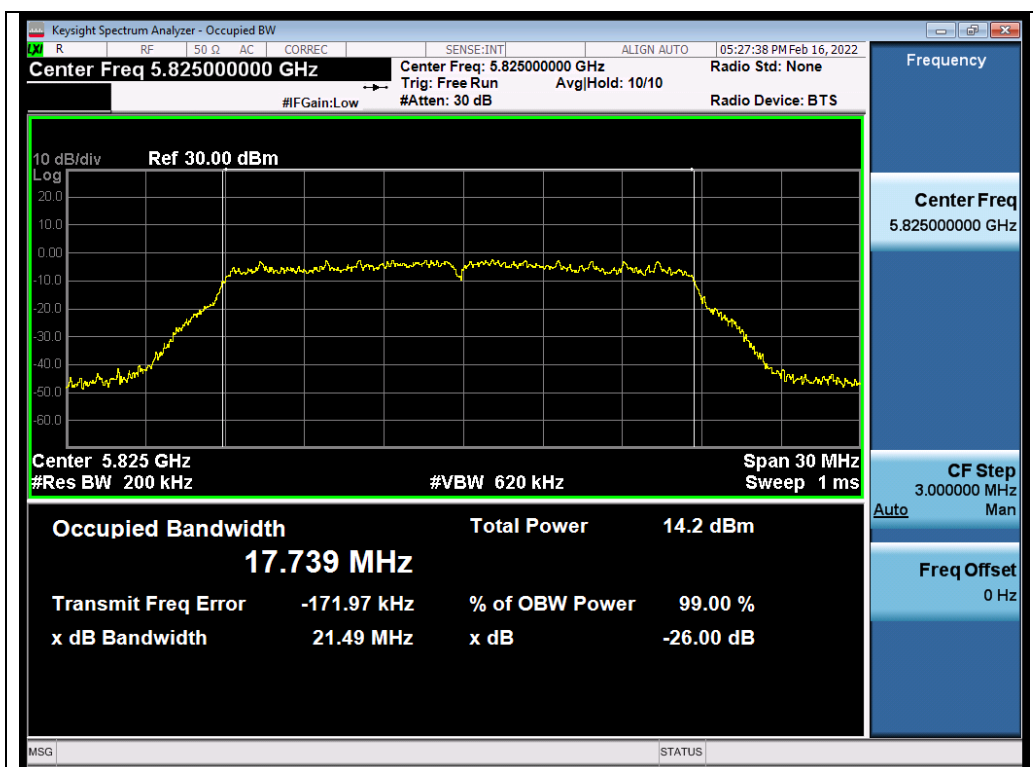


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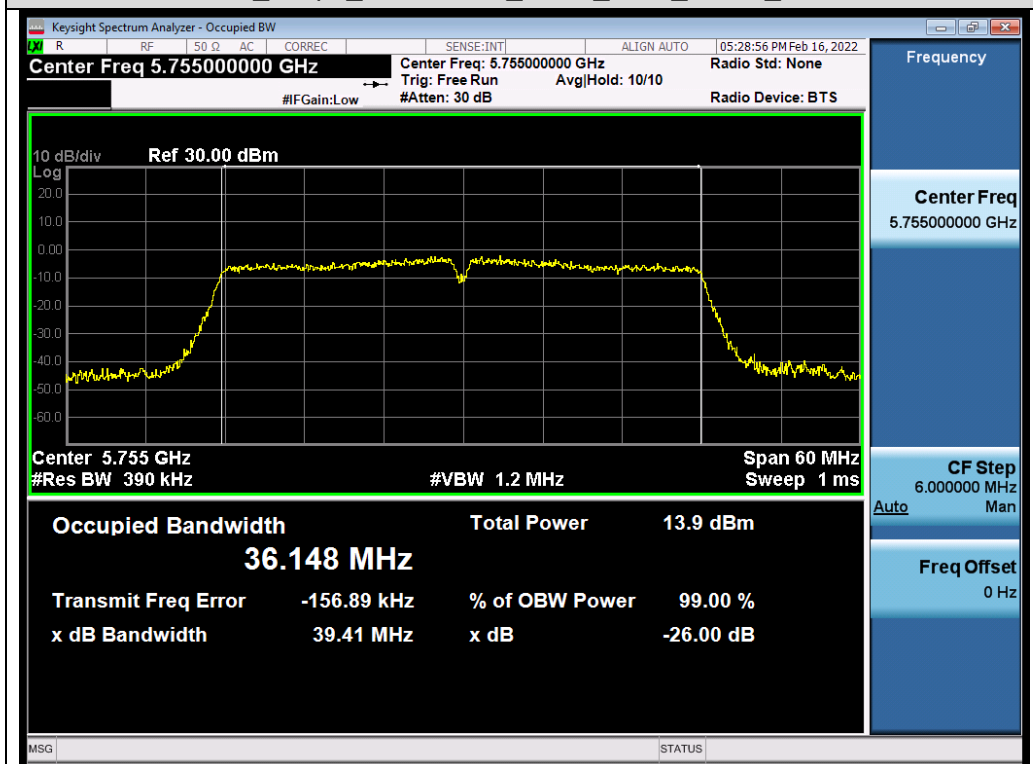


Test_Graph_802.11ac20_ANT1_5785_MCS0_OBW

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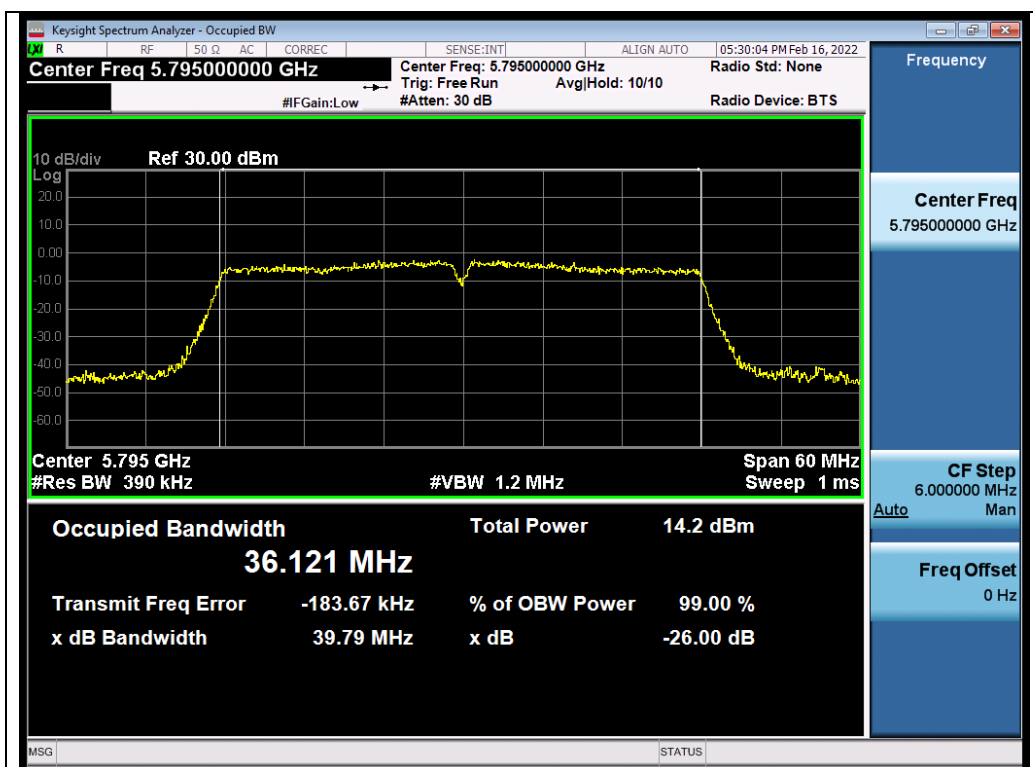


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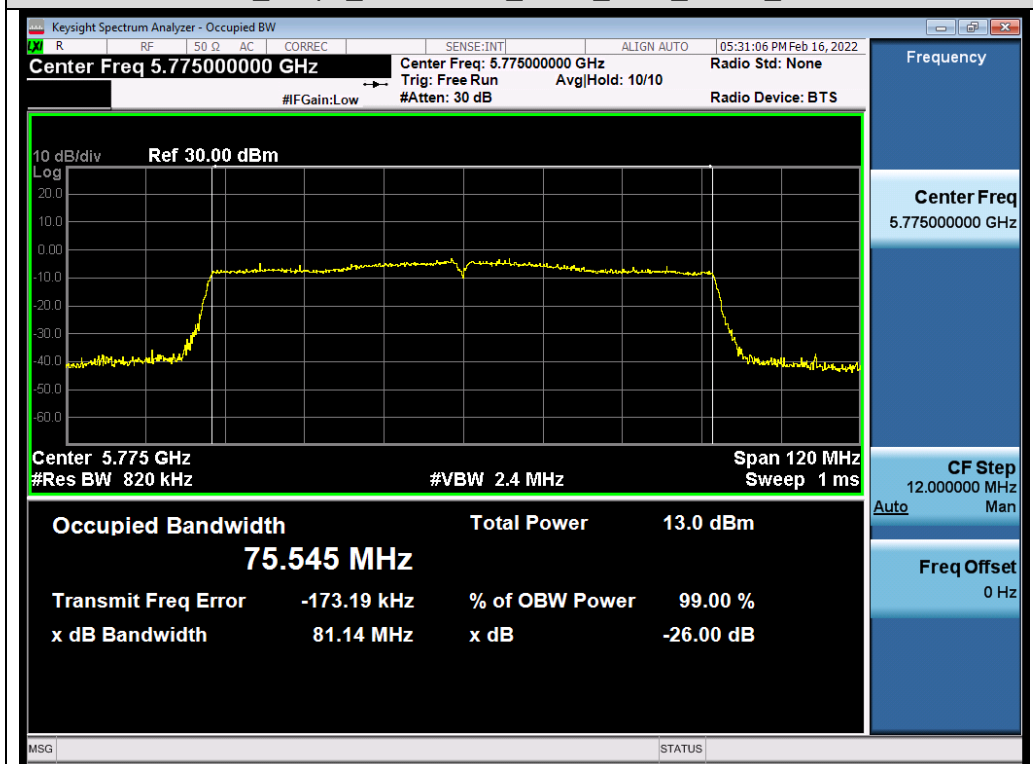


Test_Graph_802.11ac40_ANT1_5755_MCS9_OBW

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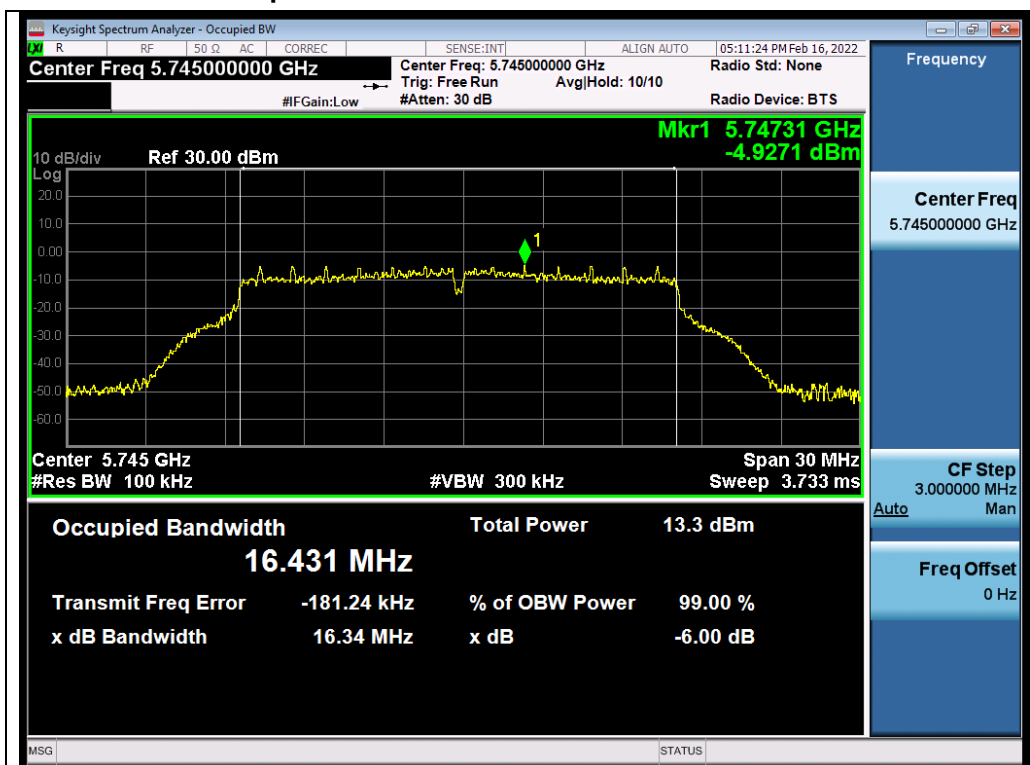
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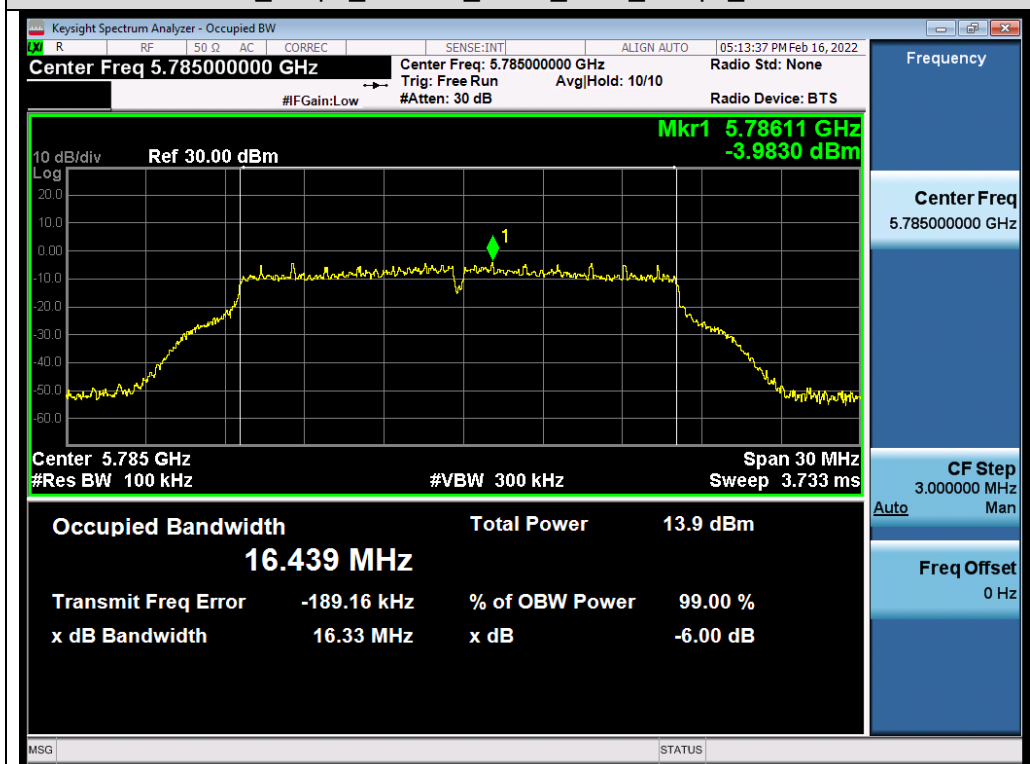
Test_Graph_802.11ac80_ANT1_5775_MCS9_OBW

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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW

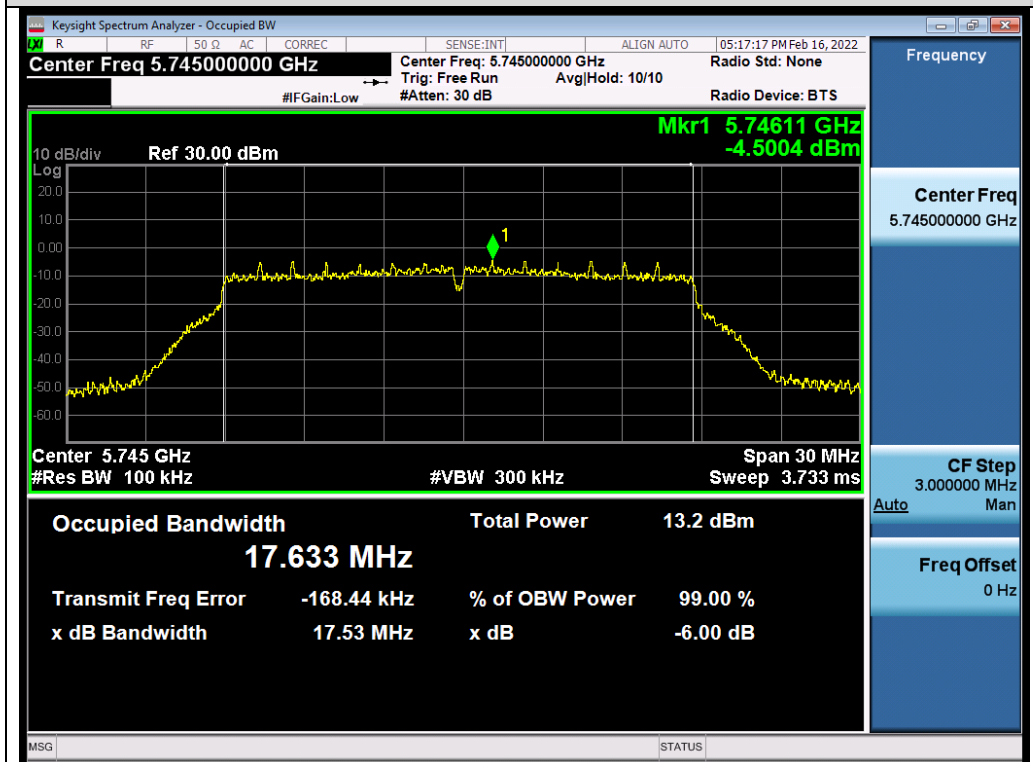


Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

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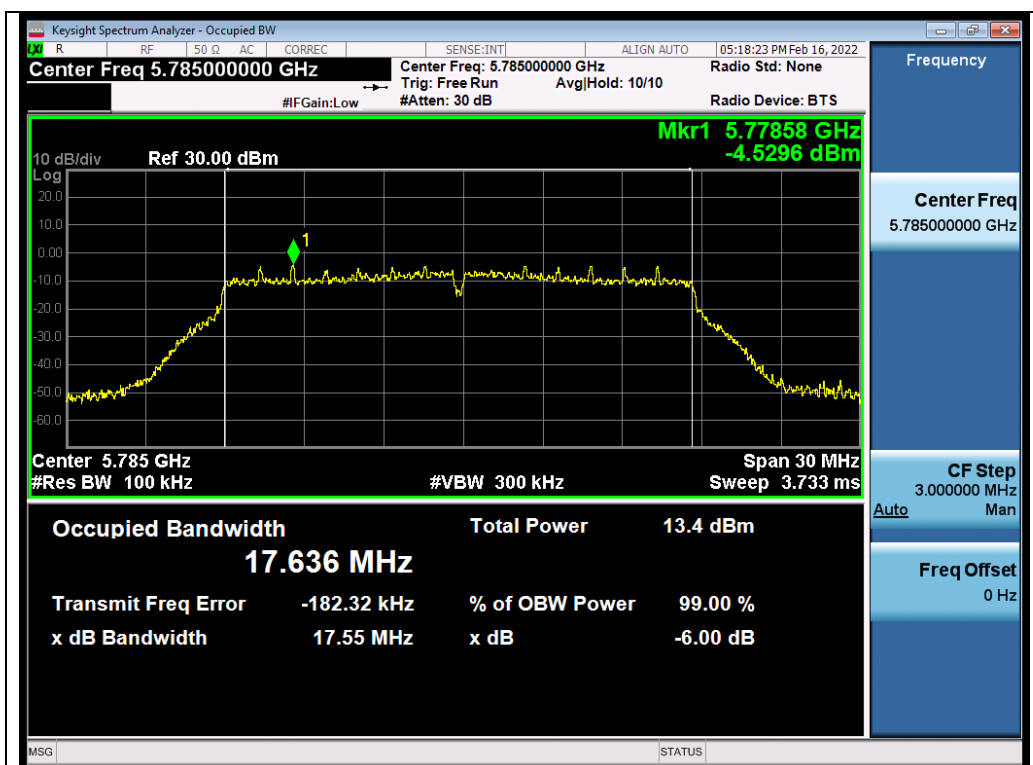
Test_Graph_802.11a_ANT1_5825_6Mbps_DTSBW



Test_Graph_802.11n20_ANT1_5745_MCS0_DTSBW

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