

FCC Test Report

Report No.: AGC03570210901FE06

FCC ID : 2A2CY-HCYS002

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : AX1800 Dual-Band Whole Home Mesh Wi-Fi6 System

BRAND NAME : ROCK, rock space, one2ten

MODEL NAME : RSD0624

APPLICANT : Shenzhen Hechuang Yousu Trade co., Ltd

DATE OF ISSUE : Oct. 18, 2021

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	/	Oct. 18, 2021	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCIES	7
2.3. RELATED SUBMITTAL(S) / GRANT (S)	8
2.4. TEST METHODOLOGY	8
2.5. SPECIAL ACCESSORIES	8
2.6. EQUIPMENT MODIFICATIONS	8
2.7. ANTENNA REQUIREMENT	8
3. MEASUREMENT UNCERTAINTY	10
4. DESCRIPTION OF TEST MODES	11
5. SYSTEM TEST CONFIGURATION	12
5.1. CONFIGURATION OF EUT SYSTEM	12
5.2. EQUIPMENT USED IN EUT SYSTEM	12
5.3. SUMMARY OF TEST RESULTS	12
6. TEST FACILITY	13
7. MAXIMUM CONDUCTED OUTPUT POWER	14
7.1. MEASUREMENT PROCEDURE	14
7.2. TEST SET-UP	14
7.3. LIMITS AND MEASUREMENT RESULT	15
8. BANDWIDTH	21
8.1. MEASUREMENT PROCEDURE	21
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	21
8.3. LIMITS AND MEASUREMENT RESULTS	22
9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY	86
9.1. MEASUREMENT PROCEDURE	86
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	86
9.3. MEASUREMENT EQUIPMENT USED	86
9.4. LIMITS AND MEASUREMENT RESULT	86
10. CONDUCTED SPURIOUS EMISSION	132

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10.1. MEASUREMENT PROCEDURE	132
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	132
10.3. MEASUREMENT EQUIPMENT USED	132
10.4. LIMITS AND MEASUREMENT RESULT	132
11. RADIATED EMISSION	159
11.1. MEASUREMENT PROCEDURE.....	159
11.2. TEST SETUP.....	160
11.3. LIMITS AND MEASUREMENT RESULT	161
11.4. TEST RESULT	161
12. LINE CONDUCTED EMISSION TEST	179
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	179
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	179
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	180
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	180
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	181
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	183
APPENDIX B: PHOTOGRAPHS OF EUT	185

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Hechuang Yousu Trade co., Ltd
Address	Room F, Floor 16, Block A, Zhongguan Shidai Square, No.4168 Liuxian Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China
Manufacturer	Shenzhen Hechuang Yousu Trade co., Ltd
Address	Room F, Floor 16, Block A, Zhongguan Shidai Square, No.4168 Liuxian Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China
Factory	Shenzhen Hechuang Yousu Trade co., Ltd
Address	Room F, Floor 16, Block A, Zhongguan Shidai Square, No.4168 Liuxian Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China
Product Designation	AX1800 Dual-Band Whole Home Mesh Wi-Fi6 System
Brand Name	ROCK, rock space, one2ten
Test Model	RSD0624
Date of test	Sep. 23, 2021 to Oct. 15, 2021
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

Eder Zhan
(Project Engineer)

Oct. 15, 2021

Reviewed By

Calvin Liu

Calvin Liu
(Reviewer)

Oct. 18, 2021

Approved By

Max Zhang

Max Zhang
(Authorized Officer)

Oct. 18, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “AX1800 Dual-Band Whole Home Mesh Wi-Fi6 System”. It is designed by way of utilizing the OFDM/OFDMA technology to achieve the system operation.

A major technical description of EUT is described as following

Equipment Type	<input type="checkbox"/> Outdoor access points <input checked="" type="checkbox"/> Indoor access points <input type="checkbox"/> Fixed P2P access points <input type="checkbox"/> Client devices
Operation Frequency	<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
DFS Design Type	<input checked="" type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input type="checkbox"/> Slave without radar detection
TPC Function	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Test Frequency Range:	For 802.11a/n/ax-HT20-VHT20: 5180~5240MHz, 5745~5825MHz For 802.11n/ax-HT40-HE 40: 5190~5230MHz, 5755~5795MHz For 802.11ac/ax-VHT80-HE80: 5210MHz, 5775MHz
Output Power	IEEE 802.11a(HT20):14.97dBm; IEEE 802.11n(HT20):14.93dBm; IEEE802.11n(HT40):13.55dBm; IEEE 802.11ac(VHT20):14.03dBm; IEEE802.11ac(VHT40):13.40dBm; IEEE802.11ac(VHT80):13.65dBm; IEEE802.11ax(HE20):13.34dBm; IEEE802.11ax(HE40):13.13dBm; IEEE802.11ax(HE80):13.27dBm
Output Power_MIMO	IEEE 802.11nHT(20):17.04dBm;IEEE802.11n(HT40):16.34dBm IEEE 802.11ac(VHT20):16.40dBm; IEEE802.11ac(VHT40):16.29dBm; IEEE802.11ac(VHT80):16.58dBm;IEEE802.11ax(HE20):15.88dBm; IEEE802.11ax(HE40):15.80dBm;IEEE802.11ax(HE80):15.88dBm
Modulation	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
Data Rate	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
Number of channels	6 channels of U-NII-1 Band 7 channels of U-NII-3 Band
Hardware Version	V1.0
Software Version	V1.3
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)
Number of transmit chain	2(802.a/11n/ac/ax all used two antennas, but 802.11a support SISO and 802.11n/ac/ax support MIMO)
Antenna Gain	Refer to Chapter 2.8 of the report.
Power Supply	DC 12V by adapter

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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 (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), 802.11ax (VHT40):

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 (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) , 802.11ax (VHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80) , 802.11ax (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: 2A2CY-HCYS002** 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.

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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 PCB Antenna List (5GHz 2*2 MIMO)						
PCB Antenna	5150 ~ 5250	2	20,40,80	5	5	8.01
	5725 ~ 5850	2	20,40,80	5	5	8.01

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} + 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 802.11 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. 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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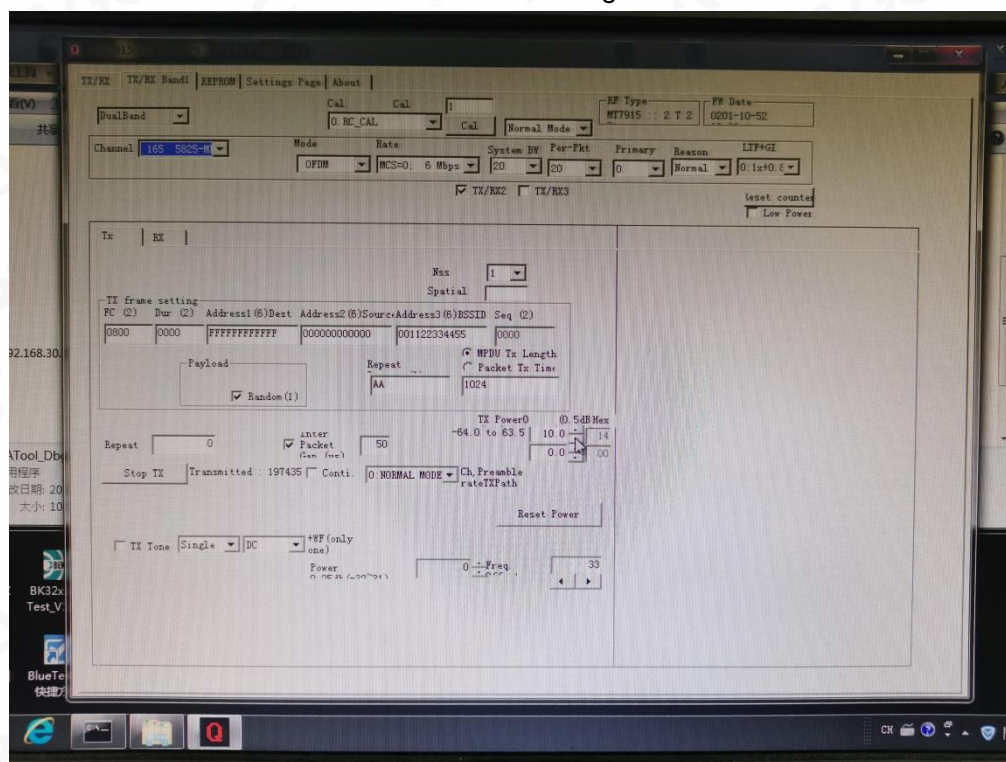
4. DESCRIPTION OF TEST MODES

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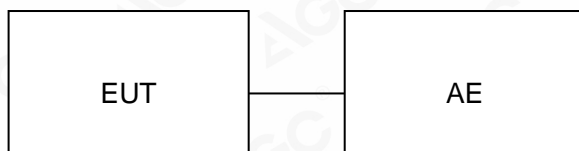
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	AX1800 Dual-Band Whole	RSD0624	2A2CY-HCYS002	EUT
2	PC	Nbl-WAQ9R	--	AE
3	PC adapter	MDY-08-ES	--	AE
3	Adapter	ZL-PCB0100020502000	--	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 15, 2021	May 14, 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	May 15, 2021	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
Power sensor	Aglient	U2021XA	MY54110007	May 22, 2020	May 21, 2022
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 09, 2019	Oct. 08, 2021
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, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2020	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

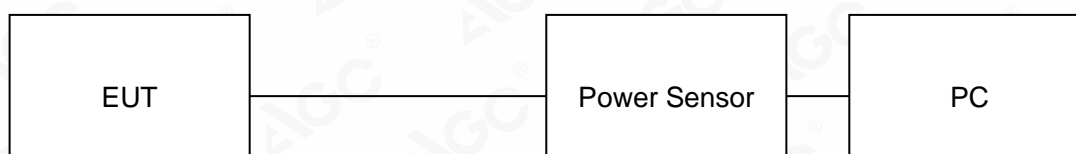
For average power test:

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-antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	12.88	30	Pass
	5200	14.97	30	Pass
	5240	14.54	30	Pass
802.11n20	5180	13.66	30	Pass
	5200	14.93	30	Pass
	5240	14.52	30	Pass
802.11n40	5190	13.29	30	Pass
	5230	13.55	30	Pass
802.11ac20	5180	12.80	30	Pass
	5200	14.03	30	Pass
	5240	13.72	30	Pass
802.11ac40	5190	13.40	30	Pass
	5230	12.37	30	Pass
802.11ac80	5210	13.49	30	Pass
802.11ax20	5180	12.13	30	Pass
	5200	13.04	30	Pass
	5240	12.08	30	Pass
802.11ax40	5190	12.04	30	Pass
	5230	11.99	30	Pass
802.11ax80	5210	13.27	30	Pass

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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	12.94	30	Pass
	5200	14.19	30	Pass
	5240	13.89	30	Pass
802.11n20	5180	11.86	30	Pass
	5200	12.88	30	Pass
	5240	12.87	30	Pass
802.11n40	5190	12.52	30	Pass
	5230	12.48	30	Pass
802.11ac20	5180	10.82	30	Pass
	5200	12.34	30	Pass
	5240	11.37	30	Pass
802.11ac40	5190	11.33	30	Pass
	5230	11.34	30	Pass
802.11ac80	5210	12.54	30	Pass
802.11ax20	5180	10.70	30	Pass
	5200	11.61	30	Pass
	5240	11.21	30	Pass
802.11ax40	5190	11.22	30	Pass
	5230	11.17	30	Pass
802.11ax80	5210	12.42	30	Pass

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Test Data of Conducted Output Power for band 5.15-5.25 GHz-antenna 1+2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5180	15.86	30	Pass
	5200	17.04	30	Pass
	5240	16.78	30	Pass
802.11n40	5190	15.93	30	Pass
	5230	16.06	30	Pass
802.11ac20	5180	14.93	30	Pass
	5200	16.28	30	Pass
	5240	15.71	30	Pass
802.11ac40	5190	15.50	30	Pass
	5230	14.90	30	Pass
802.11ac80	5210	16.05	30	Pass
802.11ax20	5180	14.48	30	Pass
	5200	15.39	30	Pass
	5240	14.68	30	Pass
802.11ax40	5190	14.66	30	Pass
	5230	14.61	30	Pass
802.11ax80	5210	15.88	30	Pass

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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	13.38	30	Pass
	5785	13.48	30	Pass
	5825	12.14	30	Pass
802.11n20	5745	13.37	30	Pass
	5785	13.40	30	Pass
	5825	12.02	30	Pass
802.11n40	5755	13.37	30	Pass
	5795	12.90	30	Pass
802.11ac20	5745	13.34	30	Pass
	5785	13.42	30	Pass
	5825	12.10	30	Pass
802.11ac40	5755	13.28	30	Pass
	5795	12.90	30	Pass
802.11ac80	5775	13.48	30	Pass
802.11ax20	5745	13.23	30	Pass
	5785	13.34	30	Pass
	5825	11.44	30	Pass
802.11ax40	5755	13.13	30	Pass
	5795	12.64	30	Pass
802.11ax80	5775	12.83	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	13.83	30	Pass
	5785	13.95	30	Pass
	5825	12.59	30	Pass
802.11n20	5745	13.28	30	Pass
	5785	13.38	30	Pass
	5825	12.05	30	Pass
802.11n40	5755	13.28	30	Pass
	5795	12.90	30	Pass
802.11ac20	5745	13.27	30	Pass
	5785	13.36	30	Pass
	5825	12.10	30	Pass
802.11ac40	5755	13.28	30	Pass
	5795	12.90	30	Pass
802.11ac80	5775	13.65	30	Pass
802.11ax20	5745	12.48	30	Pass
	5785	12.27	30	Pass
	5825	11.15	30	Pass
802.11ax40	5755	12.41	30	Pass
	5795	12.02	30	Pass
802.11ax80	5775	12.52	30	Pass

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Test Data of Conducted Output Power for band 5.725-5.85 GHz-antenna 1+2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5745	16.34	30	Pass
	5785	16.40	30	Pass
	5825	15.05	30	Pass
802.11n40	5755	16.34	30	Pass
	5795	15.91	30	Pass
802.11ac20	5745	16.32	30	Pass
	5785	16.40	30	Pass
	5825	15.11	30	Pass
802.11ac40	5755	16.29	30	Pass
	5795	15.91	30	Pass
802.11ac80	5775	16.58	30	Pass
802.11ax20	5745	15.88	30	Pass
	5785	15.85	30	Pass
	5825	14.31	30	Pass
802.11ax40	5755	15.80	30	Pass
	5795	15.35	30	Pass
802.11ax80	5775	15.69	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:

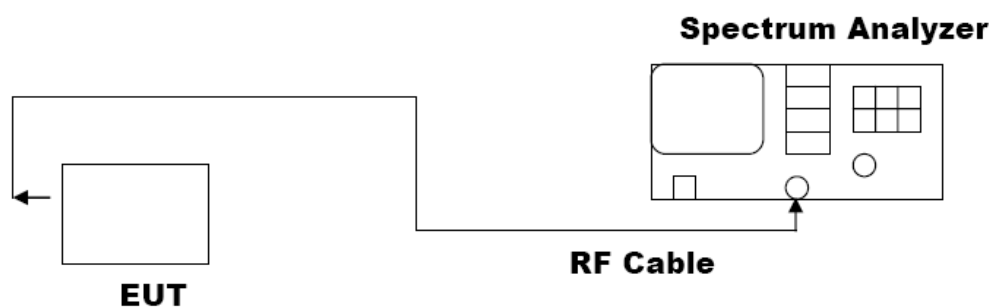
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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	16.548	20.73	N/A	Pass
	5200	16.450	19.85	N/A	Pass
	5240	16.458	19.90	N/A	Pass
802.11n20	5180	17.595	20.31	N/A	Pass
	5200	17.598	19.98	N/A	Pass
	5240	17.577	20.27	N/A	Pass
802.11n40	5190	35.820	39.89	N/A	Pass
	5230	35.799	39.89	N/A	Pass
802.11ac20	5180	17.595	20.22	N/A	Pass
	5200	17.583	20.21	N/A	Pass
	5240	17.608	20.15	N/A	Pass
802.11ac40	5190	35.794	39.71	N/A	Pass
	5230	35.782	39.71	N/A	Pass
802.11ac80	5210	74.947	79.66	N/A	Pass
802.11ax20	5180	18.983	23.33	N/A	Pass
	5200	18.977	23.08	N/A	Pass
	5240	18.847	19.86	N/A	Pass
802.11ax40	5190	37.475	39.41	N/A	Pass
	5230	37.483	39.38	N/A	Pass
802.11ax80	5210	76.470	79.96	N/A	Pass

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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	16.490	19.94	N/A	Pass
	5200	16.470	19.86	N/A	Pass
	5240	16.479	19.97	N/A	Pass
802.11n20	5180	17.588	20.16	N/A	Pass
	5200	17.596	20.13	N/A	Pass
	5240	17.584	20.10	N/A	Pass
802.11n40	5190	35.796	39.83	N/A	Pass
	5230	35.774	39.92	N/A	Pass
802.11ac20	5180	17.598	20.14	N/A	Pass
	5200	17.589	20.38	N/A	Pass
	5240	17.591	20.28	N/A	Pass
802.11ac40	5190	35.803	39.92	N/A	Pass
	5230	35.785	39.75	N/A	Pass
802.11ac80	5210	74.882	79.23	N/A	Pass
802.11ax20	5180	18.978	23.05	N/A	Pass
	5200	19.016	23.48	N/A	Pass
	5240	18.853	19.88	N/A	Pass
802.11ax40	5190	37.473	39.31	N/A	Pass
	5230	37.472	39.32	N/A	Pass
802.11ax80	5210	76.443	79.91	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	16.489	15.33	0.5	Pass
	5785	16.482	15.69	0.5	Pass
	5825	16.470	16.06	0.5	Pass
802.11n20	5745	17.602	15.72	0.5	Pass
	5785	17.605	15.71	0.5	Pass
	5825	17.602	16.51	0.5	Pass
802.11n40	5755	35.812	35.06	0.5	Pass
	5795	35.811	35.02	0.5	Pass
802.11ac20	5745	17.625	15.66	0.5	Pass
	5785	17.629	15.67	0.5	Pass
	5825	17.594	16.27	0.5	Pass
802.11ac40	5755	35.773	35.03	0.5	Pass
	5795	35.787	35.07	0.5	Pass
802.11ac80	5775	75.078	75.11	0.5	Pass
802.11ax20	5745	18.991	18.74	0.5	Pass
	5785	18.990	18.69	0.5	Pass
	5825	18.967	19.00	0.5	Pass
802.11ax40	5755	37.539	35.78	0.5	Pass
	5795	37.420	35.12	0.5	Pass
802.11ax80	5775	76.776	75.81	0.5	Pass

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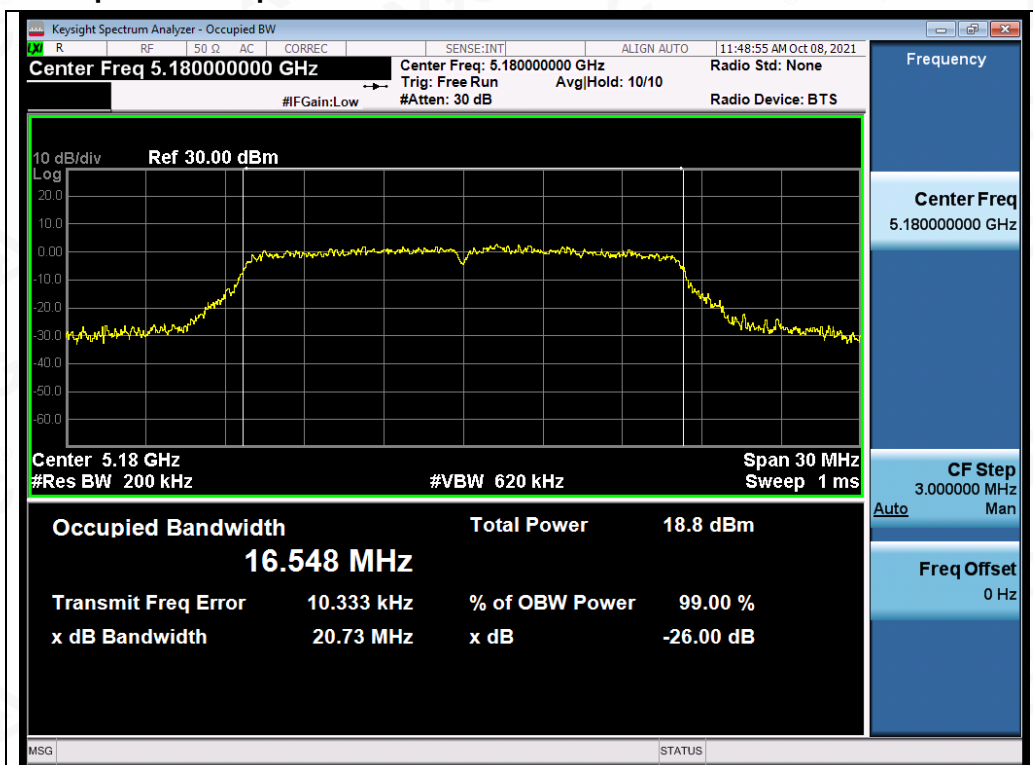
Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.469	15.43	0.5	Pass
	5785	16.452	16.06	0.5	Pass
	5825	16.478	15.71	0.5	Pass
802.11n20	5745	17.575	16.14	0.5	Pass
	5785	17.586	16.36	0.5	Pass
	5825	17.606	15.46	0.5	Pass
802.11n40	5755	35.812	35.04	0.5	Pass
	5795	35.841	35.04	0.5	Pass
802.11ac20	5745	17.608	16.04	0.5	Pass
	5785	17.582	16.64	0.5	Pass
	5825	17.582	15.69	0.5	Pass
802.11ac40	5755	35.788	33.83	0.5	Pass
	5795	35.782	35.07	0.5	Pass
802.11ac80	5775	75.084	75.10	0.5	Pass
802.11ax20	5745	19.006	18.82	0.5	Pass
	5785	19.001	18.65	0.5	Pass
	5825	19.011	18.92	0.5	Pass
802.11ax40	5755	37.398	35.11	0.5	Pass
	5795	37.511	35.09	0.5	Pass
802.11ax80	5775	76.614	75.31	0.5	Pass

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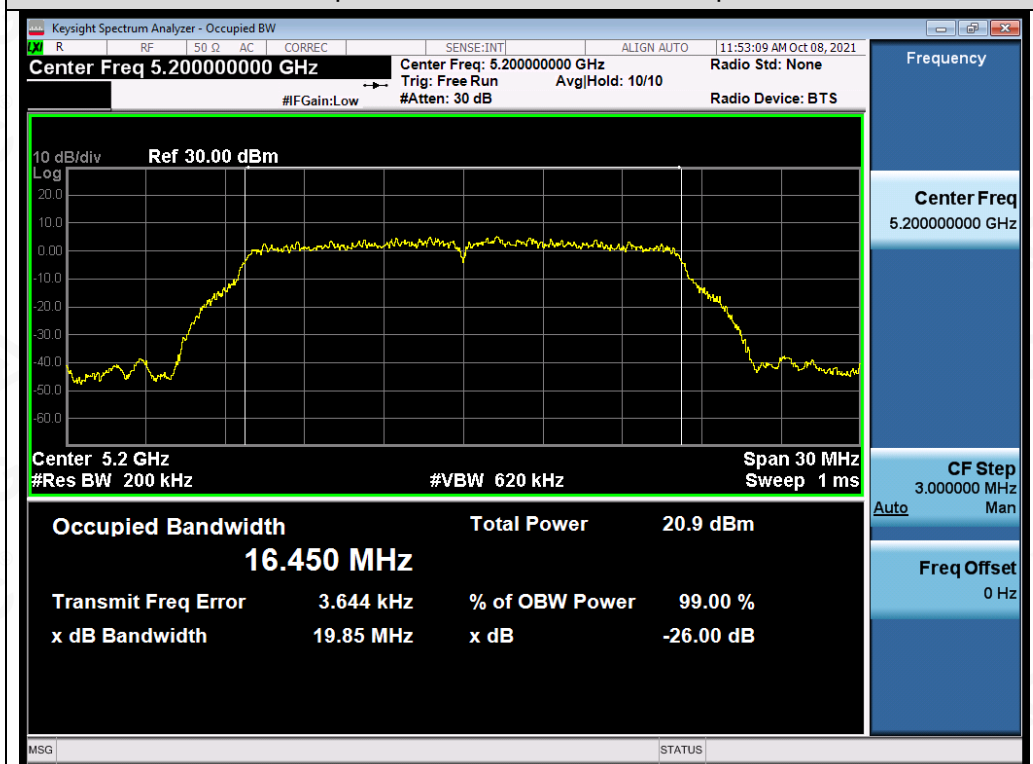
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW



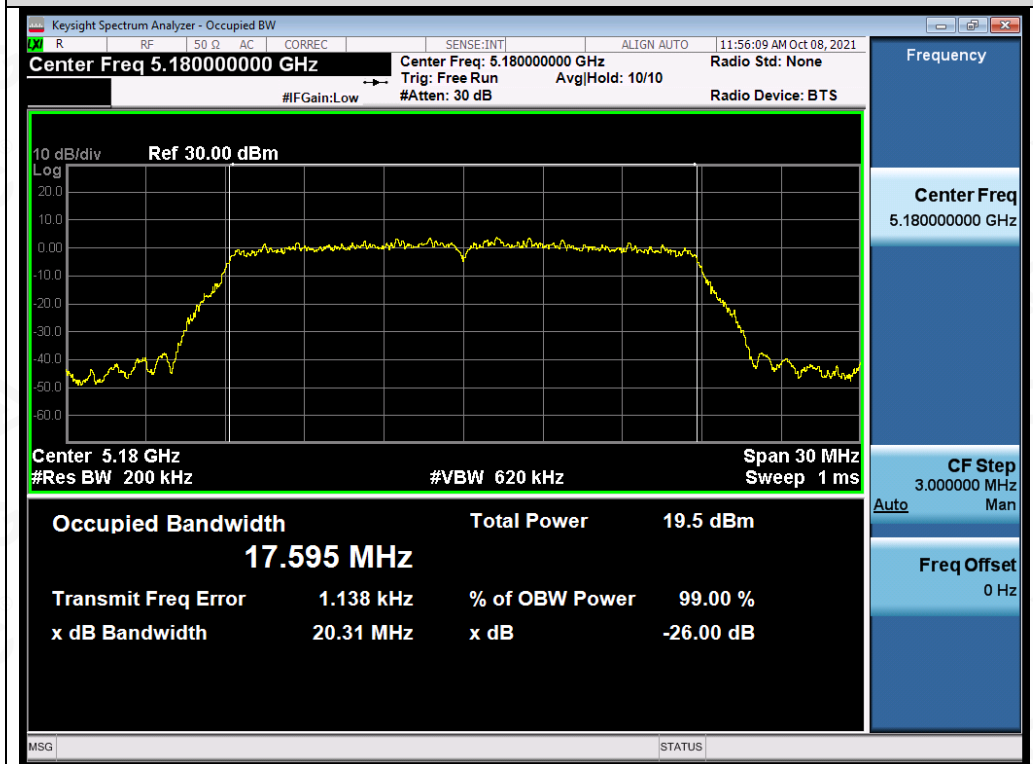
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Test_Graph_802.11a_ANT1_5240_6Mbps_OBW



Test_Graph_802.11n20_ANT1_5180_MCS0_OBW

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Test_Graph_802.11n20_ANT1_5200_MCS0_OBW

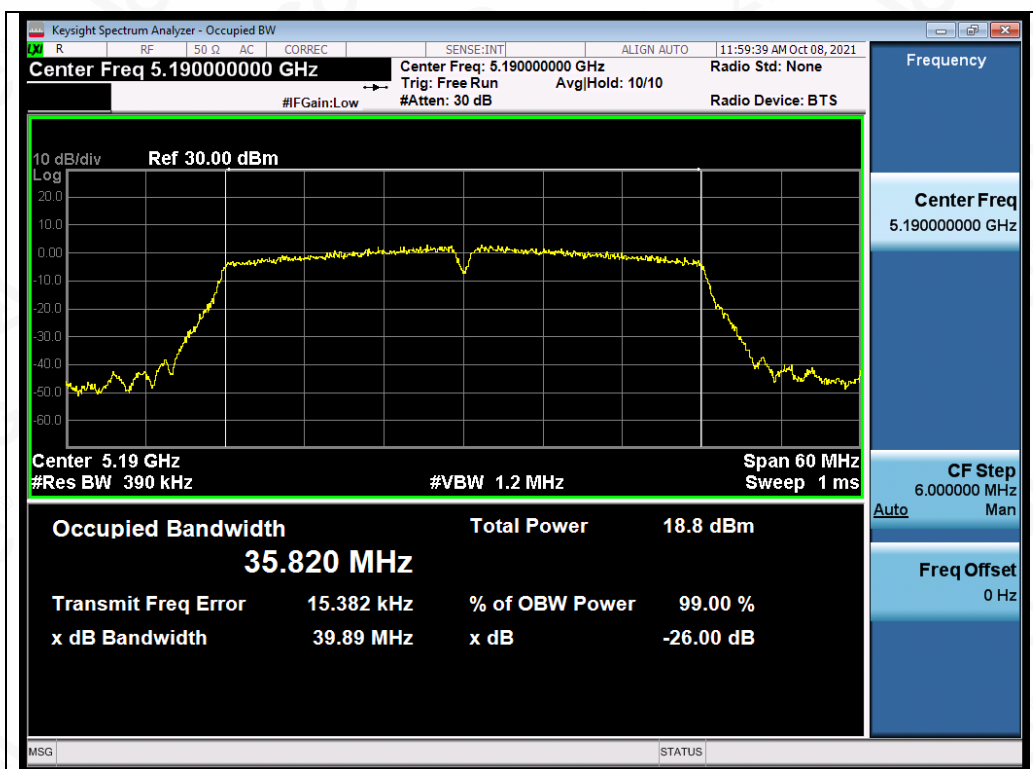


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Test_Graph_802.11n40_ANT1_5190_MCS0_OBW



Test_Graph_802.11n40_ANT1_5230_MCS0_OBW

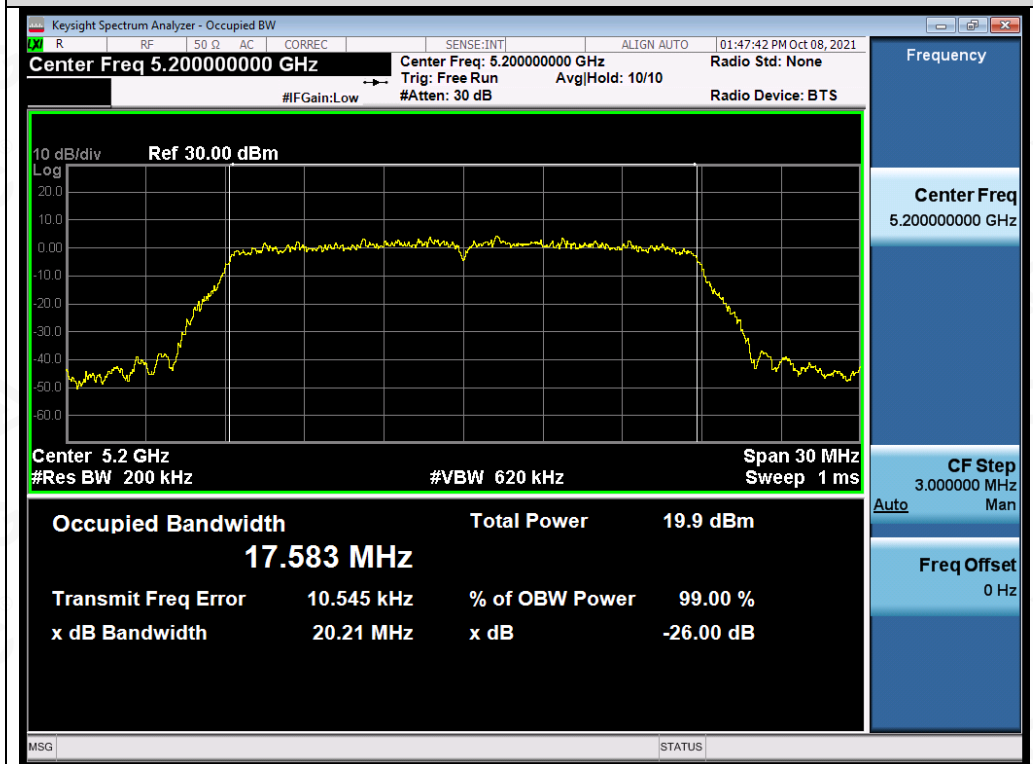
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Test_Graph_802.11ac20_ANT1_5180_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5200_MCS0_OBW

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Test_Graph_802.11ac20_ANT1_5240_MCS9_OBW



Test_Graph_802.11ac40_ANT1_5190_MCS9_OBW

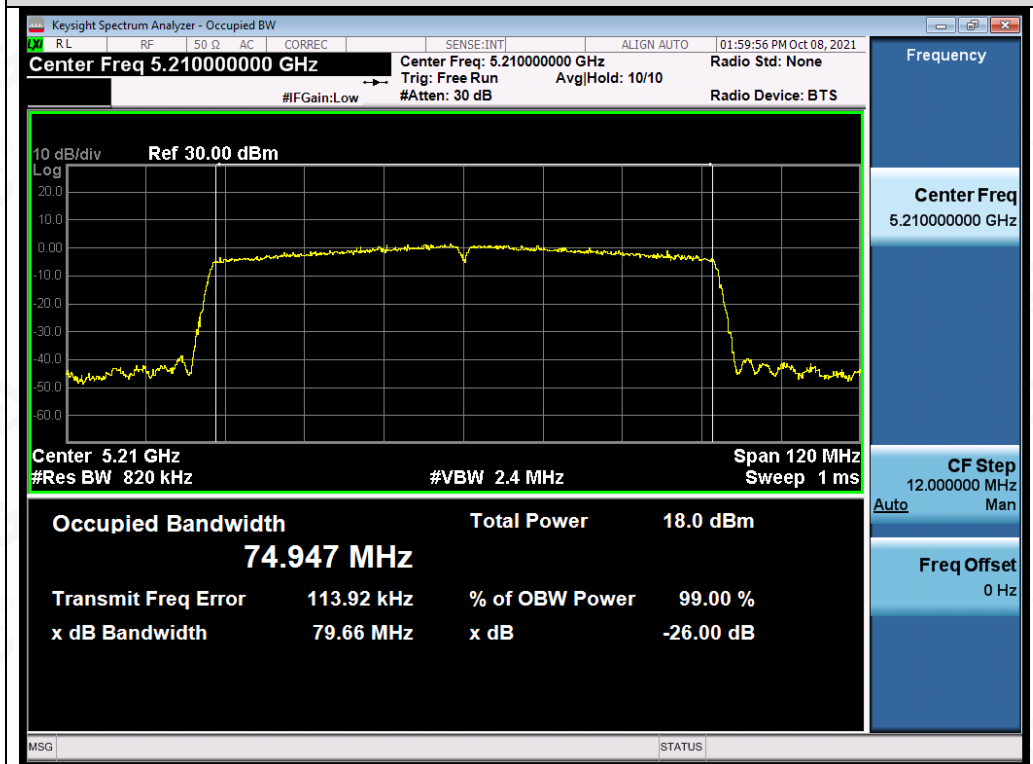
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Test_Graph_802.11ac40_ANT1_5230_MCS9_OBW

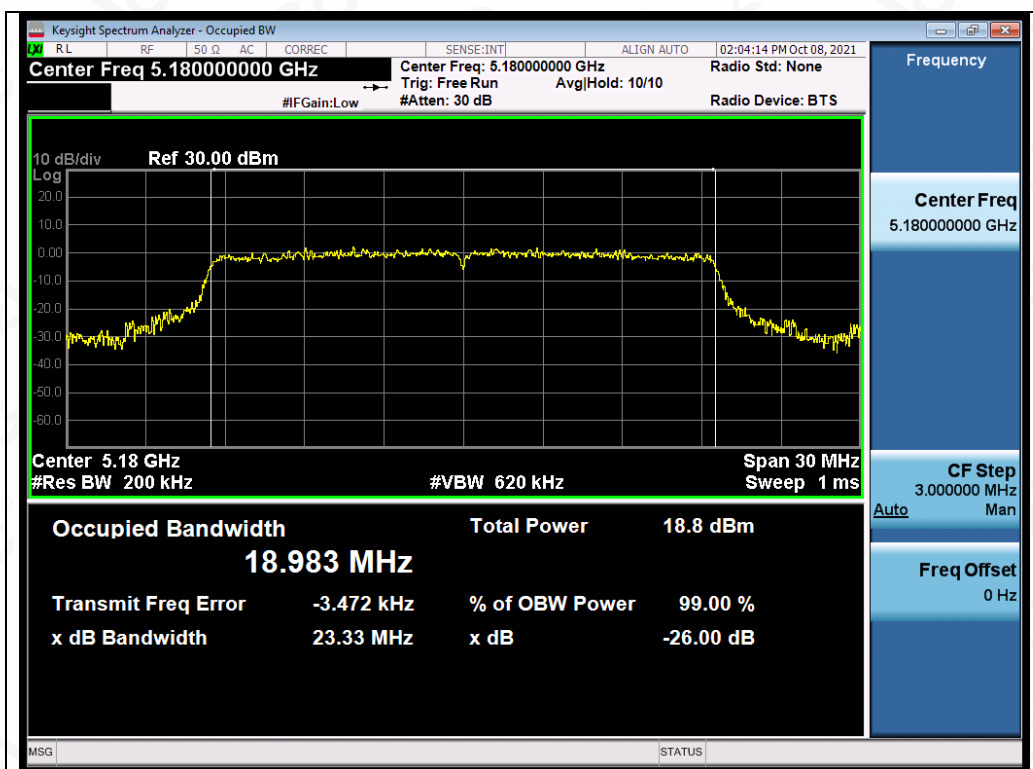


Test_Graph_802.11ac80_ANT1_5210_MCS9_OBW

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Test_Graph_802.11ax20_ANT1_5180_MCS0_OBW

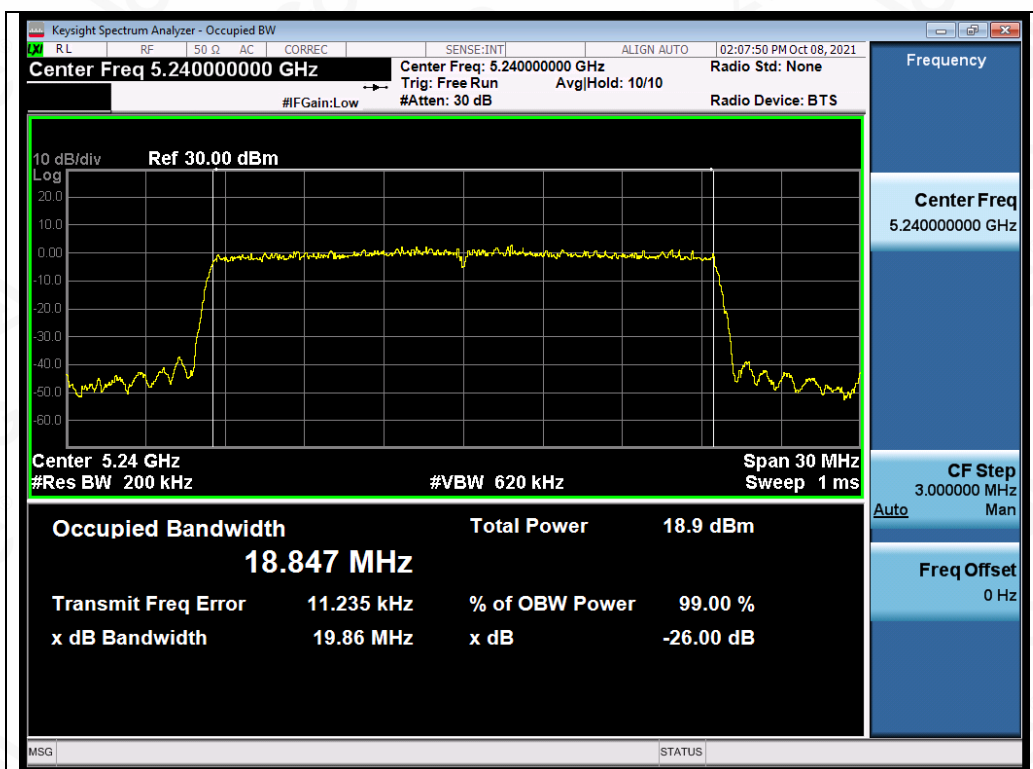


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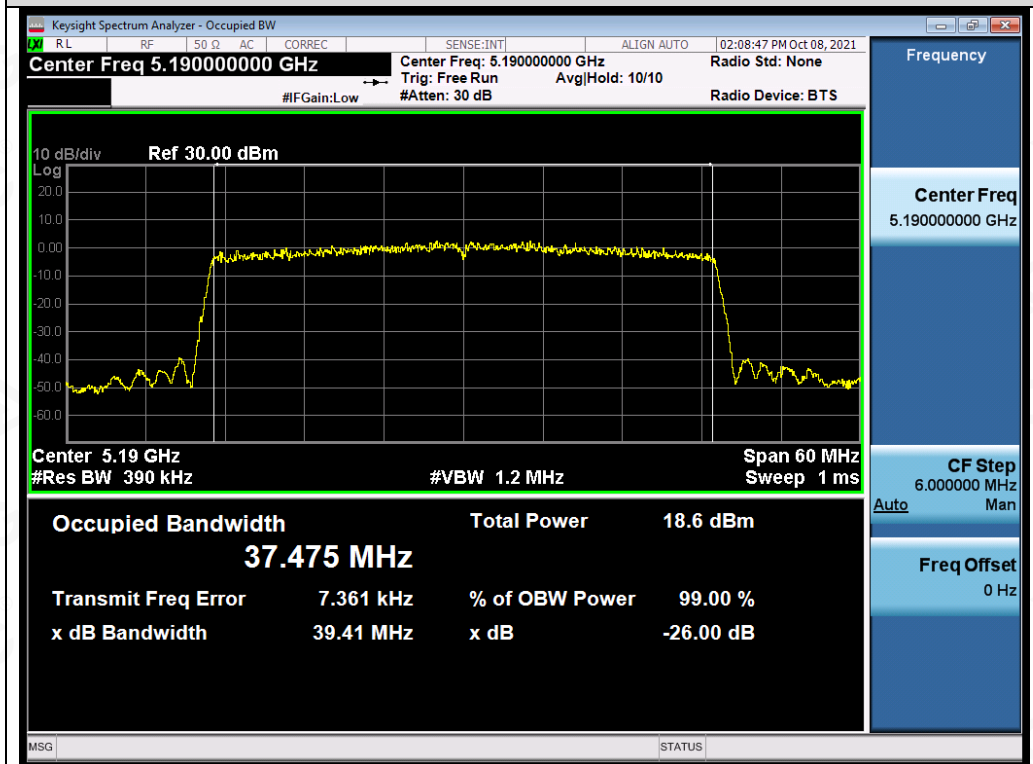
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Test_Graph_802.11ax20_ANT1_5240_MCS0_OBW

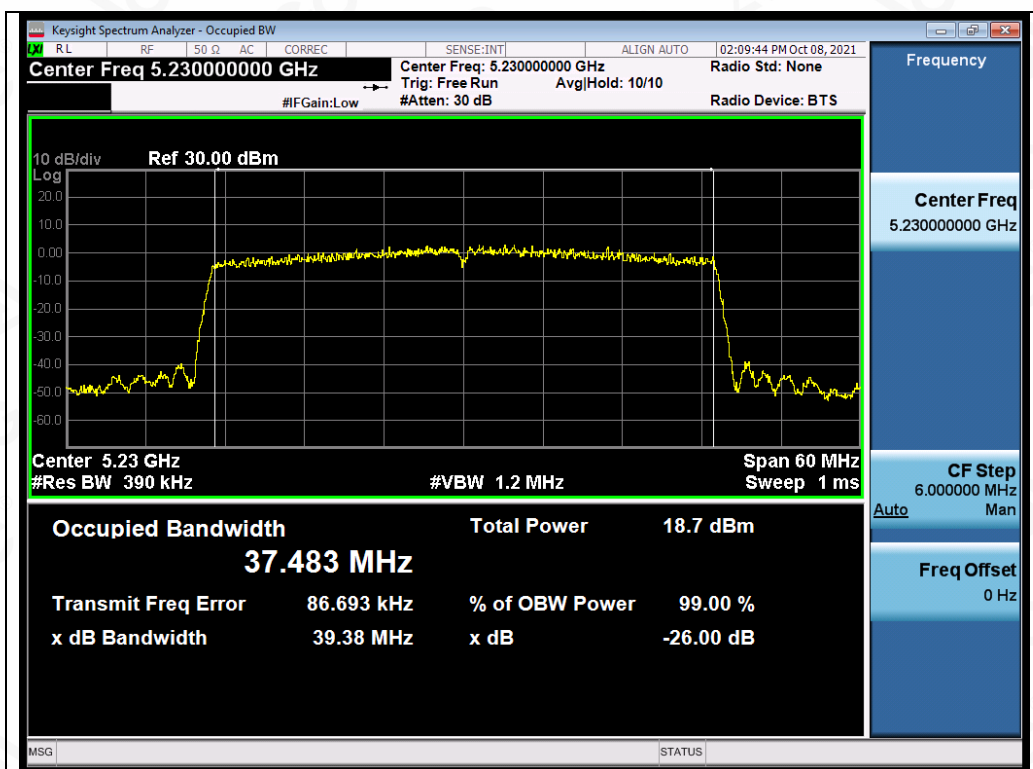


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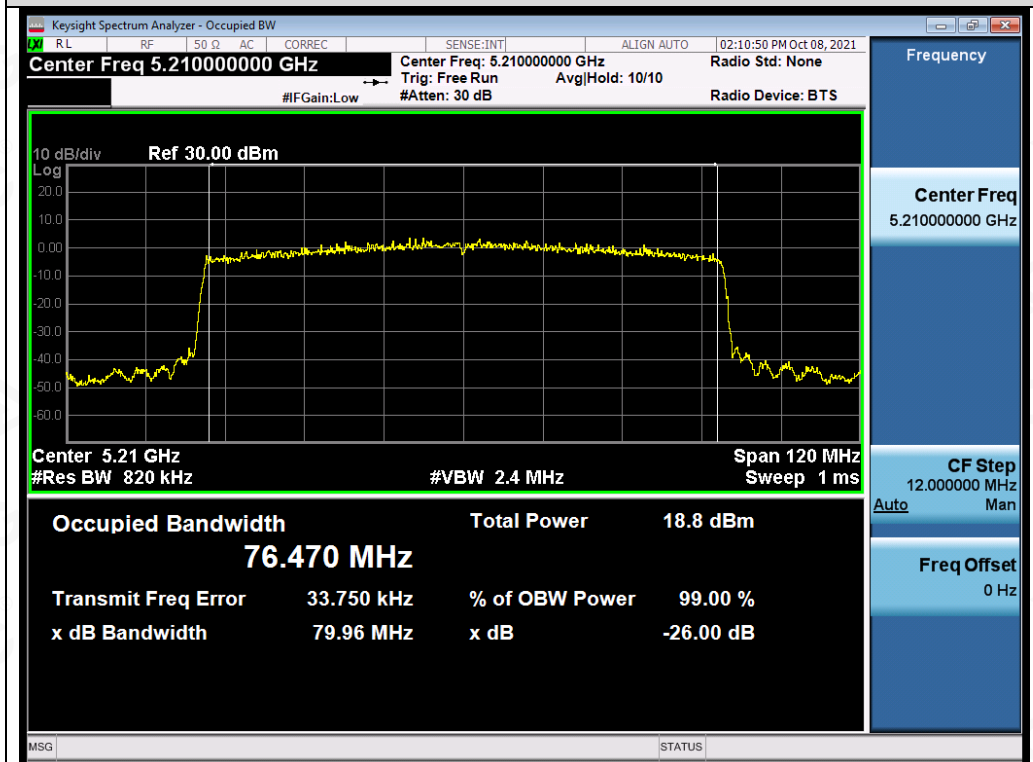
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Test_Graph_802.11ax40_ANT1_5230_MCS0_OBW



Test_Graph_802.11ax80_ANT1_5210_MCS0_OBW

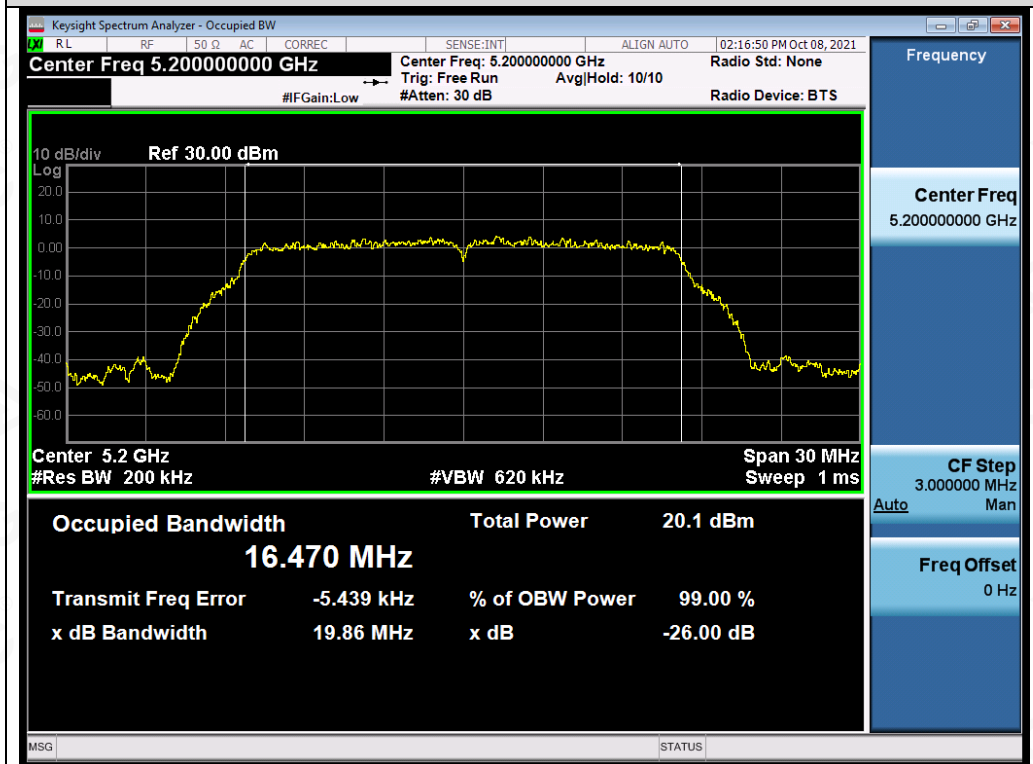
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Test_Graph_802.11a_ANT2_5180_6Mbps_OBW



Test_Graph_802.11a_ANT2_5200_6Mbps_OBW

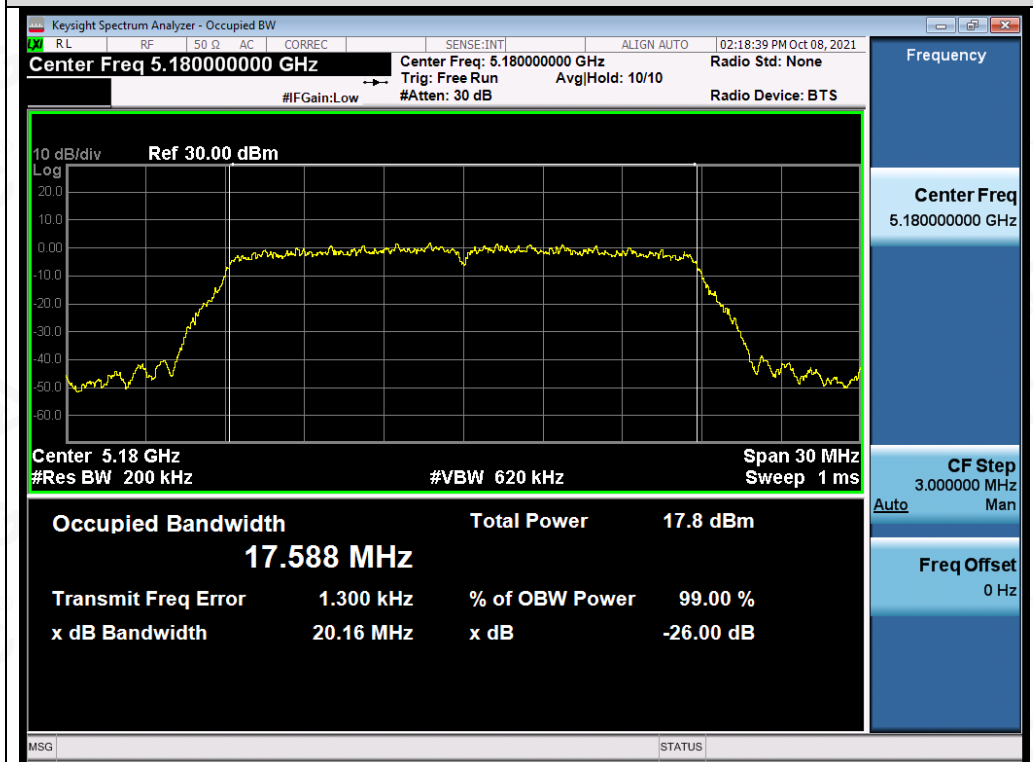
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Test_Graph_802.11a_ANT2_5240_6Mbps_OBW



Test_Graph_802.11n20_ANT2_5180_MCS0_OBW

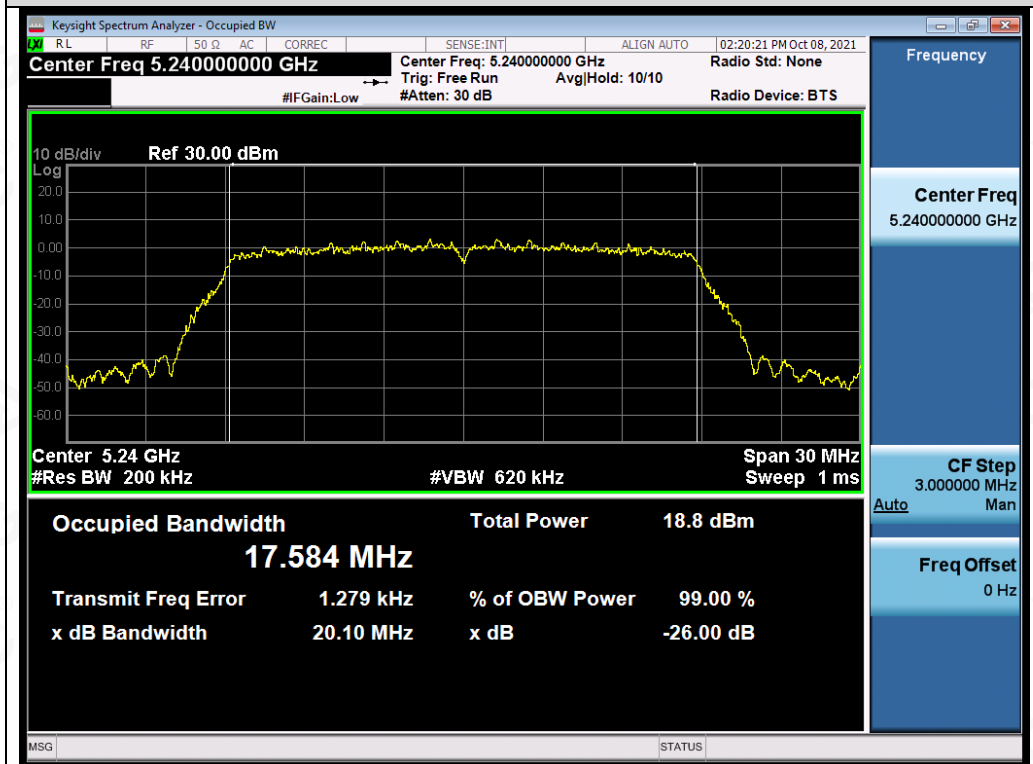
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Test_Graph_802.11n20_ANT2_5200_MCS0_OBW



Test_Graph_802.11n20_ANT2_5240_MCS0_OBW

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Test_Graph_802.11n40_ANT2_5190_MCS0_OBW

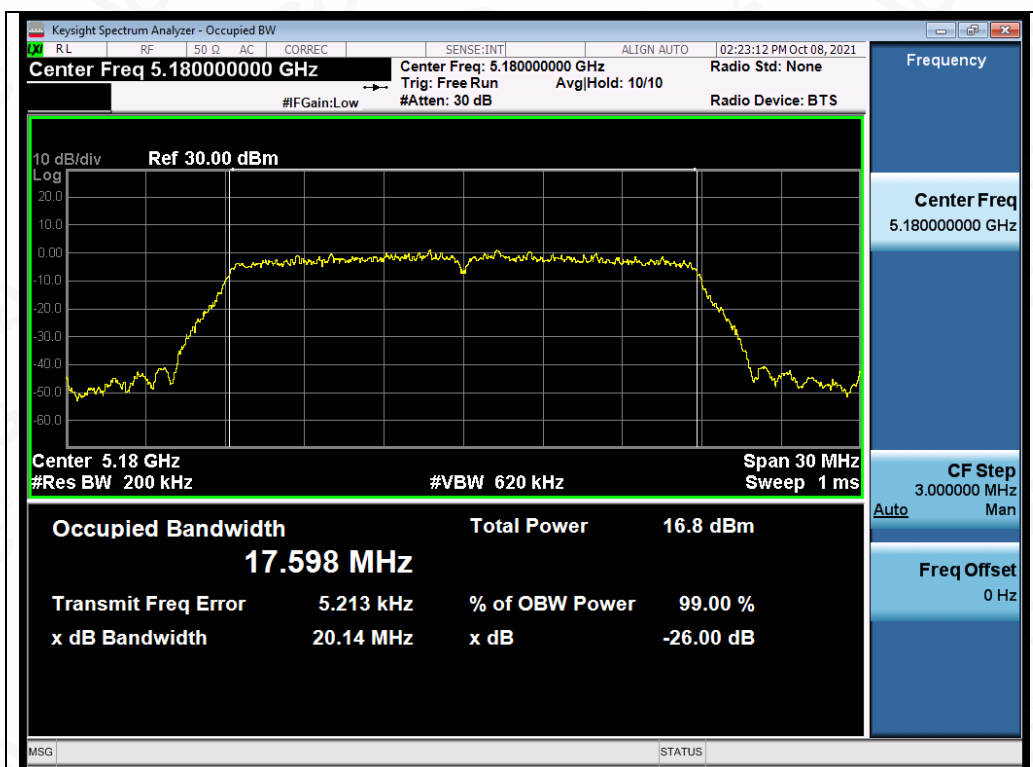


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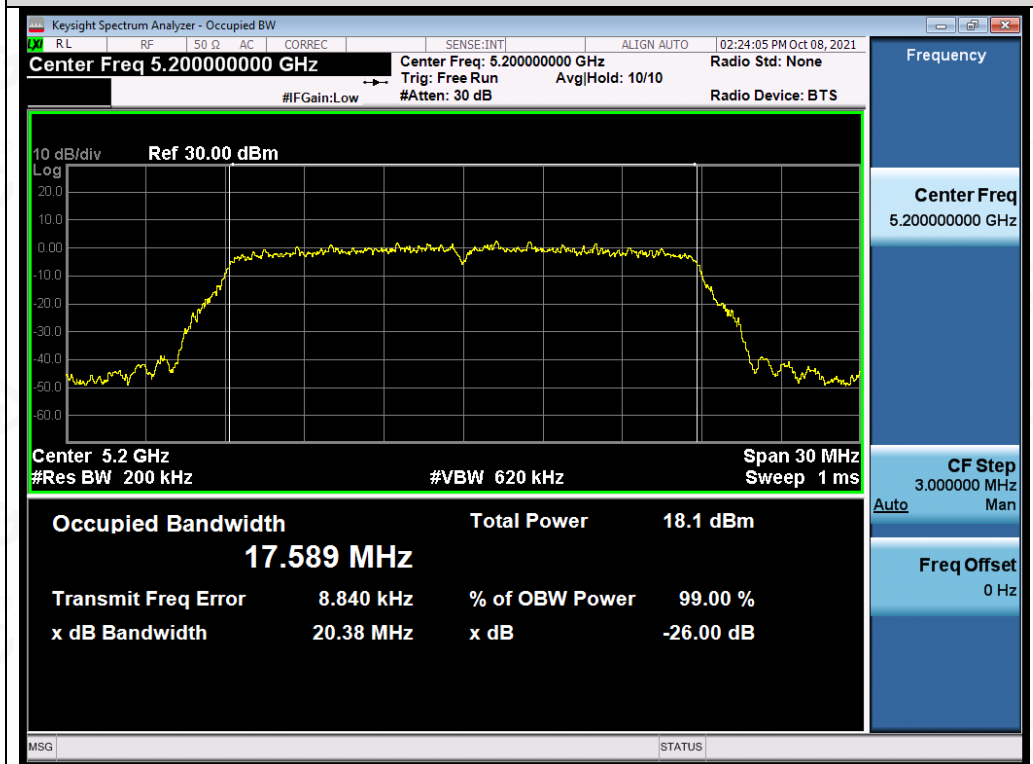
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Test_Graph_802.11ac20_ANT2_5180_MCS0_OBW



Test_Graph_802.11ac20_ANT2_5200_MCS0_OBW

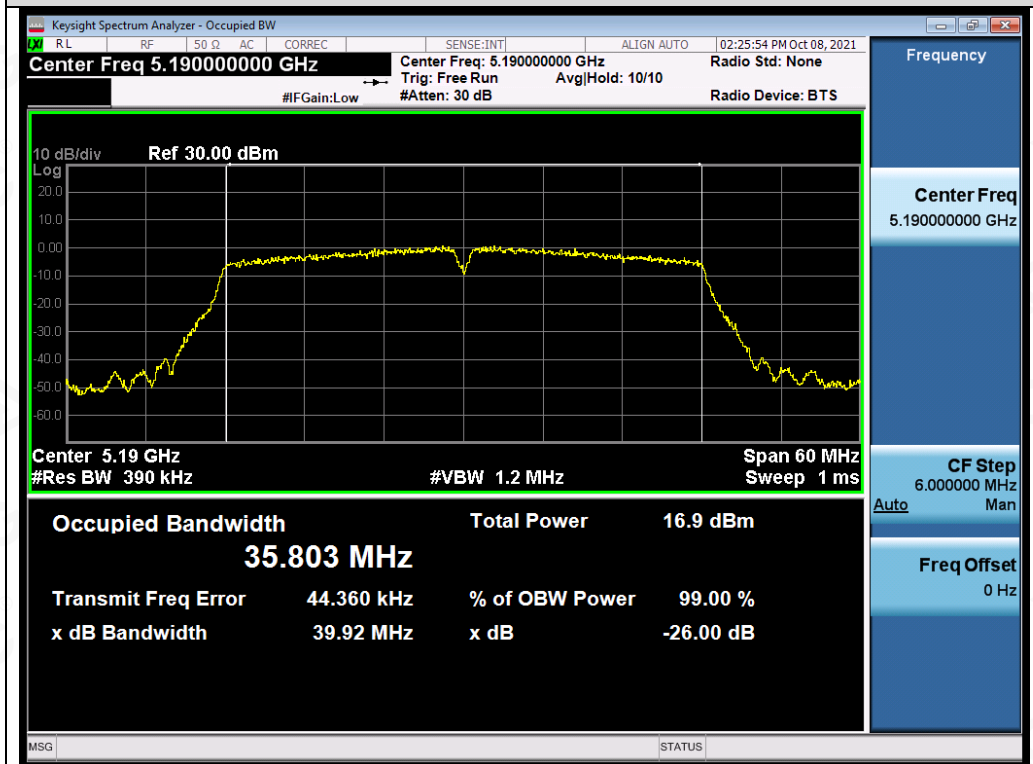
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Test_Graph_802.11ac20_ANT2_5240_MCS9_OBW



Test_Graph_802.11ac40_ANT2_5190_MCS9_OBW

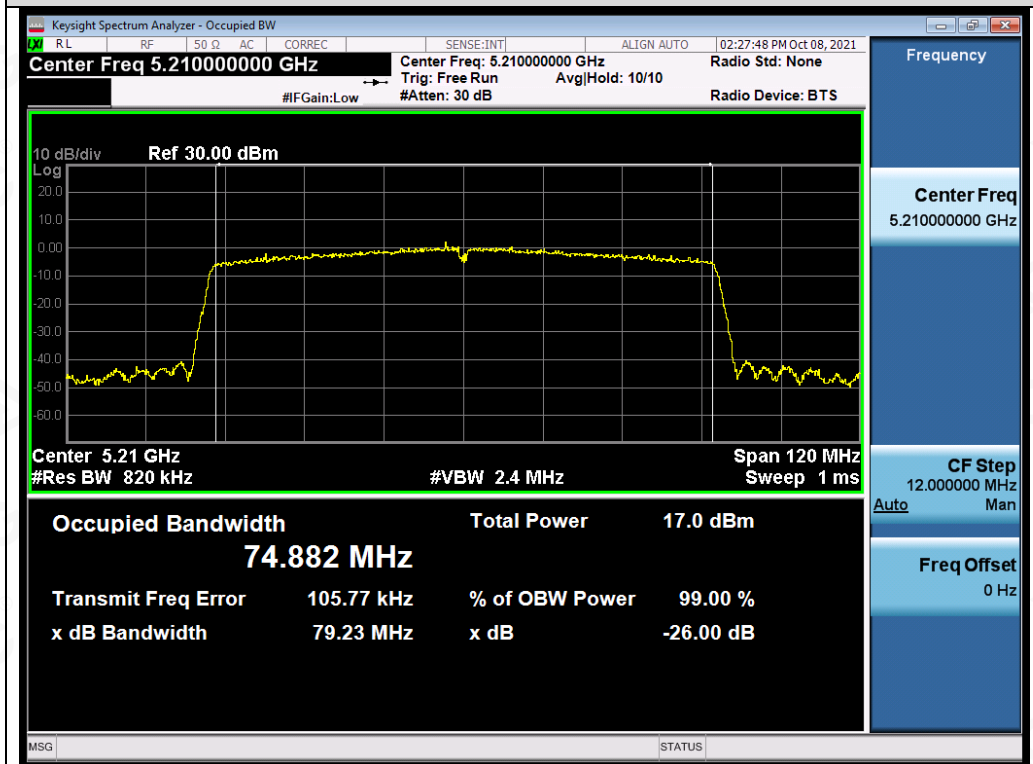
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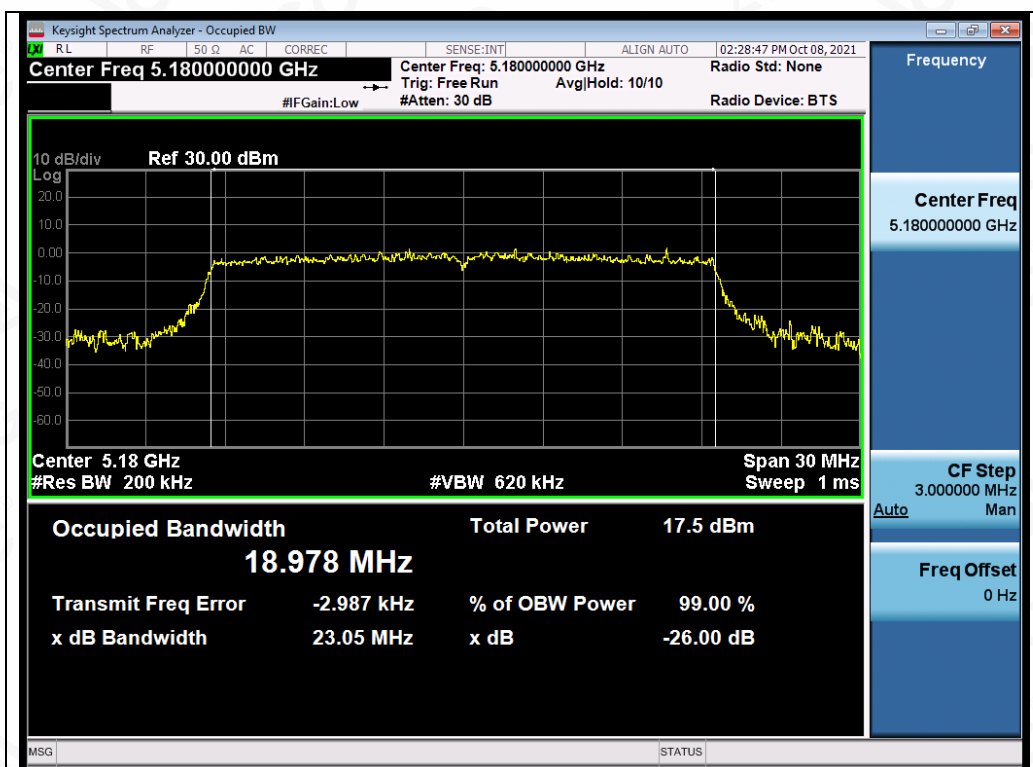


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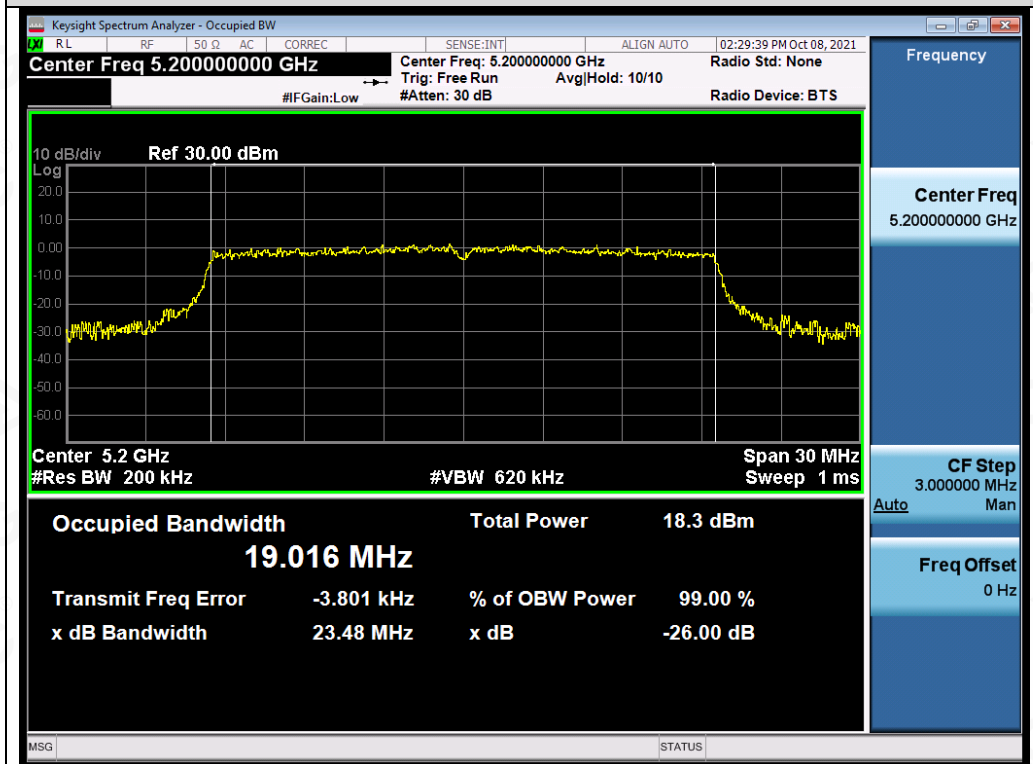
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Test_Graph_802.11ax20_ANT2_5200_MCS0_OBW

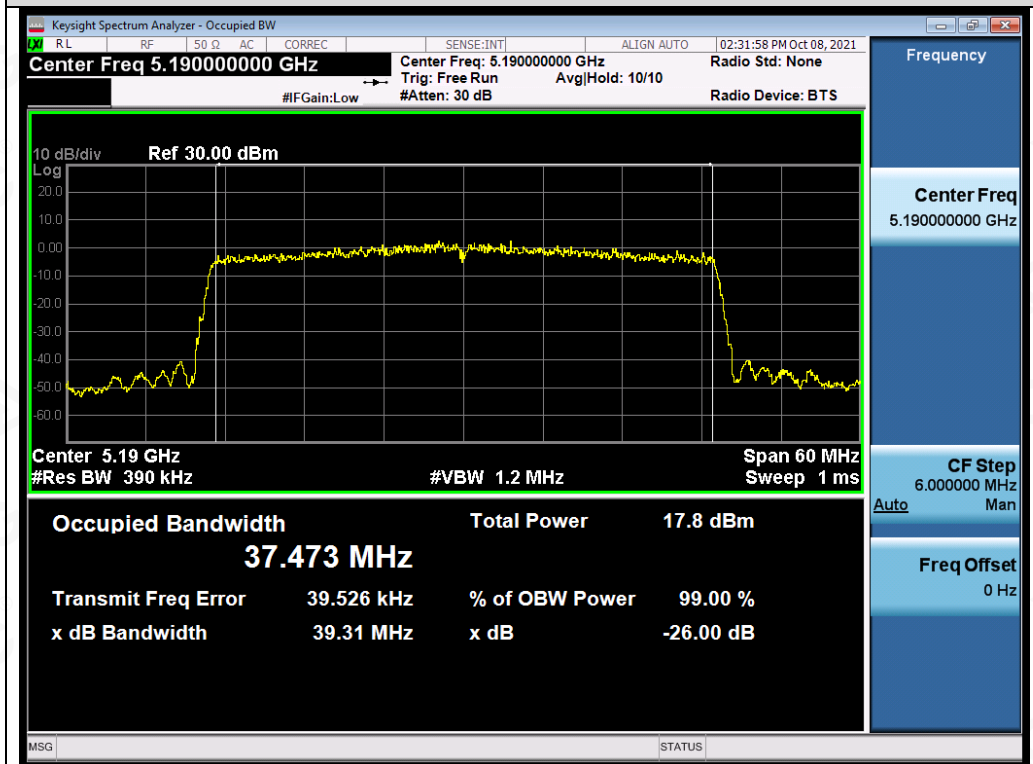
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