

FCC Test Report

Report No.: AGC00688211103FE05

FCC ID : 2AKC6XHT-6B17
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Wireless USB Adapter
BRAND NAME : N/A
MODEL NAME : 6B17, 6B29
APPLICANT : SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
DATE OF ISSUE : Dec. 15, 2021
STANDARD(S) : FCC Part 15.247
TEST PROCEDURE(S)
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	/	Dec. 15, 2021	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
Address	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
manufacturer	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
Address	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
Factory	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
Address	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
Product Designation	Wireless USB Adapter
Brand Name	N/A
Test Model	6B17
Series Model	6B29
Declaration of Difference	All the series models are the same as the test model except for the model names.
Date of test	Nov. 18, 2021 to Dec. 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 radiated emission limits of FCC Rules Part 15.247.

Prepared By



John Zeng
(Project Engineer)

Dec. 15, 2021

Reviewed By



Calvin Liu
(Reviewer)

Dec. 15, 2021

Approved By



Max Zhang
(Authorized Officer)

Dec. 15, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “Wireless USB Adapter”. It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Equipment Type	WLAN 2.4G
Frequency Band	2400MHz ~ 2483.5MHz
Operation Frequency	2412MHz ~ 2462MHz
Output Power (Average)	IEEE 802.11b:6.50dBm; IEEE 802.11g:6.04dBm; IEEE 802.11n(HT20):5.79dBm; IEEE 802.11n(HT40):5.97dBm
Output Power (Peak)	IEEE 802.11b:9.40dBm; IEEE 802.11g:13.87dBm; IEEE 802.11n(HT20):13.49dBm; IEEE 802.11n(HT40):13.51dBm
Output Power (Average-MIMO)	IEEE 802.11n(HT20):8.68dBm; IEEE 802.11n(HT40):8.83dBm
Output Power (Peak-MIMO)	IEEE 802.11n(HT20):16.43dBm; IEEE 802.11n(HT40):16.35dBm
Modulation	802.11b:DQPSK, DBPSK, CCK 802.11g/n: 64-QAM, 16-QAM, QPSK, BPSK
Data Rate	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps
Number of channels	11
Hardware Version	V2.1
Software Version	V1.2
Antenna Designation	External Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	Refer to Chapter 2.8 of the report.
Number of transmit chain	2(802.11b/g/n all used two antennas,802.11b/g/n support MIMO)
Power Supply	DC 5V by USB

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2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11. For 40MHZ bandwidth system use Channel 3 to Channel 9

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2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Data rate(Mbps)	
									800nsGI	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AKC6XHT-6B17** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules
ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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2.8. ANTENNA REQUIREMENT

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

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

2.9. 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	
2.4GWIFI External Antenna List (2.4GHz 2*2 MIMO)						
External Antenna	2400~2483.5	2	20, 40	5	5	8.01

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n 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 expended 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

NO.	TEST MODE DESCRIPTION
1	Low channel transmitting (TX)
2	Middle channel transmitting (TX)
3	High channel transmitting (TX)
Note: Transmit by 802.11b with Data rate (1/2/5.5/11) Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54) Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65) Transmit by 802.11n (40MHz) with Data rate (13.5/27/40.5/54/81/108/121.5/135) The test channel for 20MHZ bandwidth system is channel 1, 6 and 11. The test channel for 40MHZ bandwidth system is channel 3, 6 and 9.	

Note:

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. The test software is REALTEK 11ac 8822BU USB WLAN NIC Massproduction Kit which can sent the EUT into individual test modes.

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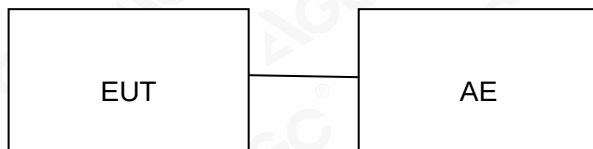
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless USB Adapter	6B17	2AKC6XHT-6B17	EUT
2	PC	Nbl-WAQ9R	N/A	AE
3	PC	DELL	N/A	AE
4	PC adapter	HW-200200CP1	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247(b)(3)	Output Power	Compliant
§15.247(a)(2)	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247(e)	Maximum Conducted Output Power Spectral Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247(d)	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	Nov. 17, 2021	Nov. 16, 2022
2.4GHz Fliter	Micro-tronics	087	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	Weinachel Corp	58-30-33	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	00034609	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	D69250	Jan. 08, 2020	Jan. 07, 2023
Test software	FARA	EZ EMC (Ver.RA-03A)	N/A	N/A	N/A

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7. OUTPUT POWER

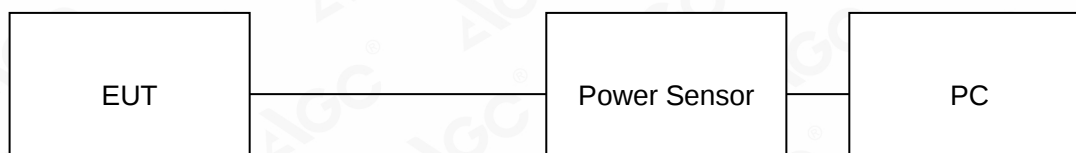
7.1. MEASUREMENT PROCEDURE

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 ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power-antenna 1					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	6.10	8.93	≤30	Pass
	2437	6.05	8.83	≤30	Pass
	2462	5.63	8.38	≤30	Pass
802.11g	2412	5.85	13.76	≤30	Pass
	2437	5.75	13.64	≤30	Pass
	2462	5.42	13.29	≤30	Pass
802.11n20	2412	5.69	13.43	≤30	Pass
	2437	5.79	13.49	≤30	Pass
	2462	5.48	13.16	≤30	Pass
802.11n40	2422	5.97	13.51	≤30	Pass
	2437	5.83	13.36	≤30	Pass
	2452	5.77	13.29	≤30	Pass

Test Data of Conducted Output Power-antenna 2					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	6.50	9.40	≤30	Pass
	2437	6.24	9.17	≤30	Pass
	2462	6.50	9.38	≤30	Pass
802.11g	2412	6.04	13.87	≤30	Pass
	2437	5.66	13.44	≤30	Pass
	2462	6.02	13.77	≤30	Pass
802.11n20	2412	5.44	13.25	≤30	Pass
	2437	5.55	13.35	≤30	Pass
	2462	5.33	13.12	≤30	Pass
802.11n40	2422	5.28	12.85	≤30	Pass
	2437	5.67	13.20	≤30	Pass
	2452	5.87	13.39	≤30	Pass

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Test Data of Conducted Output Power-antenna 1+2					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	2412	8.58	16.35	≤ 30	Pass
	2437	8.68	16.43	≤ 30	Pass
	2462	8.42	16.15	≤ 30	Pass
802.11n40	2422	8.65	16.20	≤ 30	Pass
	2437	8.76	16.29	≤ 30	Pass
	2452	8.83	16.35	≤ 30	Pass

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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

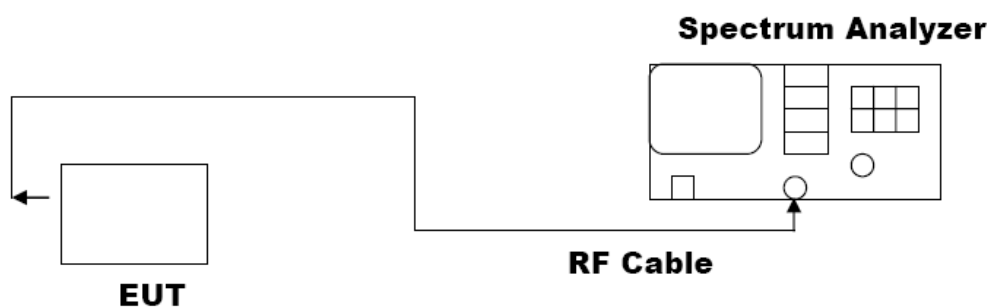
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\geq$ 3 $\times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

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 2 to 5 times the 20 dB bandwidth, centered on a hopping 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.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 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 DTS Bandwidth-antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11b	2412	13.652	9.071	≥ 0.5	Pass
	2437	13.716	9.081	≥ 0.5	Pass
	2462	13.737	9.088	≥ 0.5	Pass
802.11g	2412	16.518	16.34	≥ 0.5	Pass
	2437	16.510	16.34	≥ 0.5	Pass
	2462	16.509	16.33	≥ 0.5	Pass
802.11n20	2412	17.615	17.05	≥ 0.5	Pass
	2437	17.607	17.05	≥ 0.5	Pass
	2462	17.600	17.03	≥ 0.5	Pass
802.11n40	2422	36.445	36.34	≥ 0.5	Pass
	2437	36.442	36.33	≥ 0.5	Pass
	2452	36.440	36.33	≥ 0.5	Pass

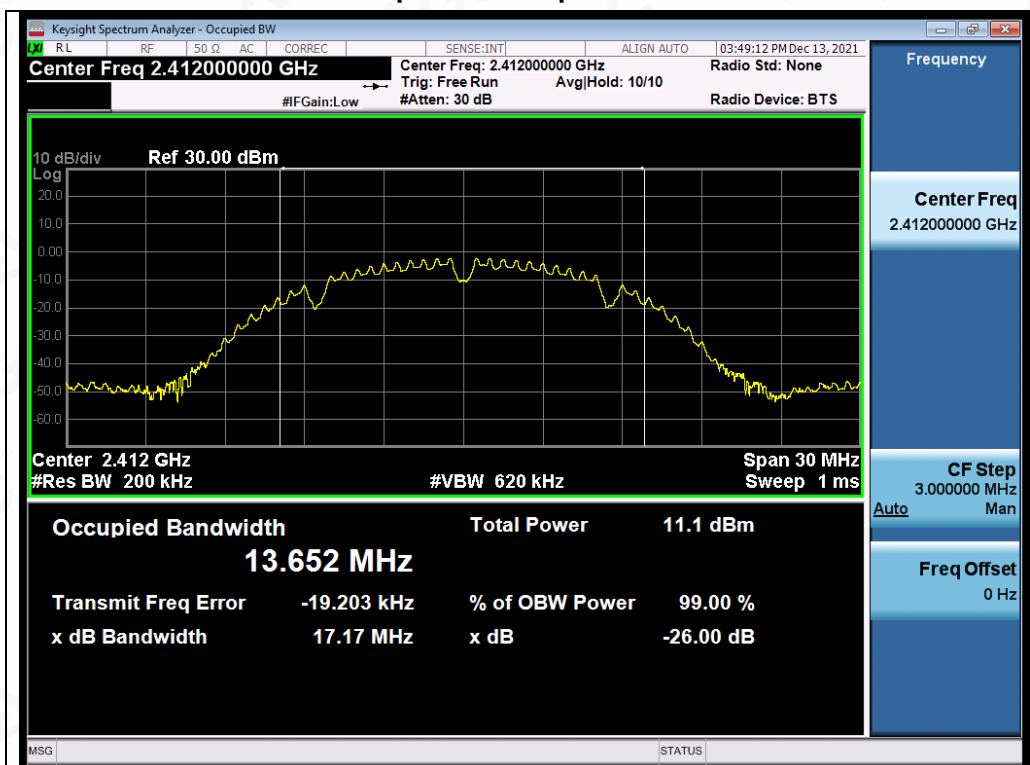
Test Data of Occupied Bandwidth and DTS Bandwidth-antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11b	2412	13.493	9.075	≥ 0.5	Pass
	2437	13.512	9.063	≥ 0.5	Pass
	2462	13.561	9.073	≥ 0.5	Pass
802.11g	2412	16.547	16.34	≥ 0.5	Pass
	2437	16.537	16.35	≥ 0.5	Pass
	2462	16.542	16.34	≥ 0.5	Pass
802.11n20	2412	17.600	17.27	≥ 0.5	Pass
	2437	17.603	17.26	≥ 0.5	Pass
	2462	17.603	17.27	≥ 0.5	Pass
802.11n40	2422	36.481	36.32	≥ 0.5	Pass
	2437	36.470	36.32	≥ 0.5	Pass
	2452	36.469	36.35	≥ 0.5	Pass

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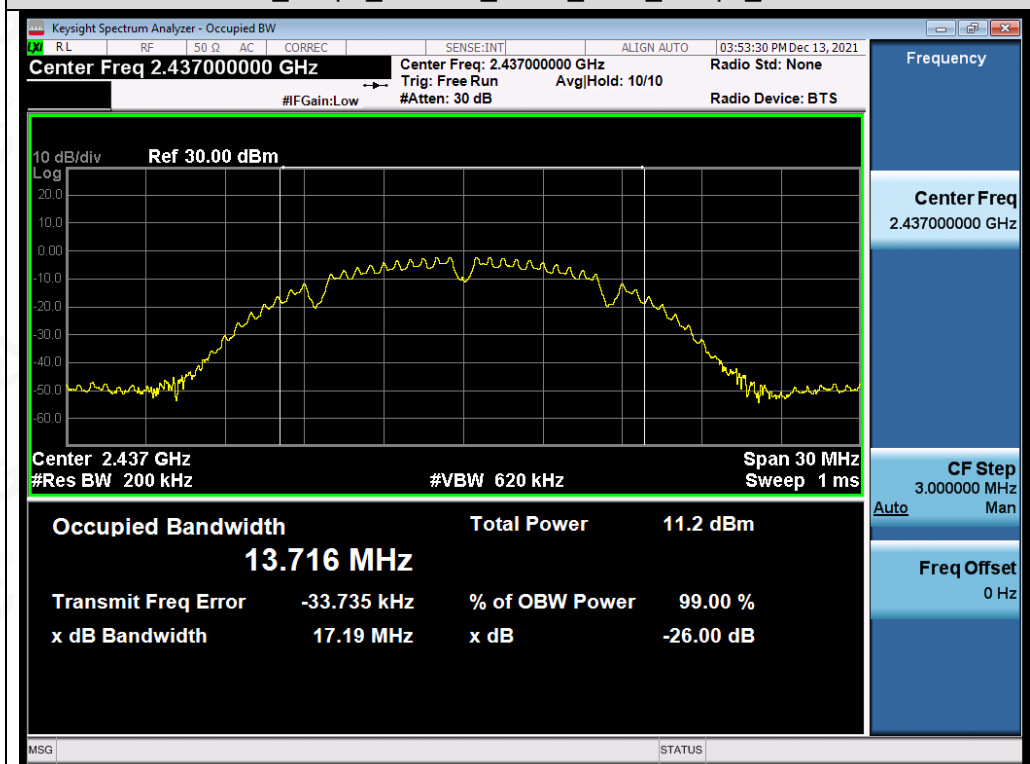
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Test Graphs of Occupied Bandwidth



Test_Graph_802.11b_ANT1_2412_1Mbps_OBW

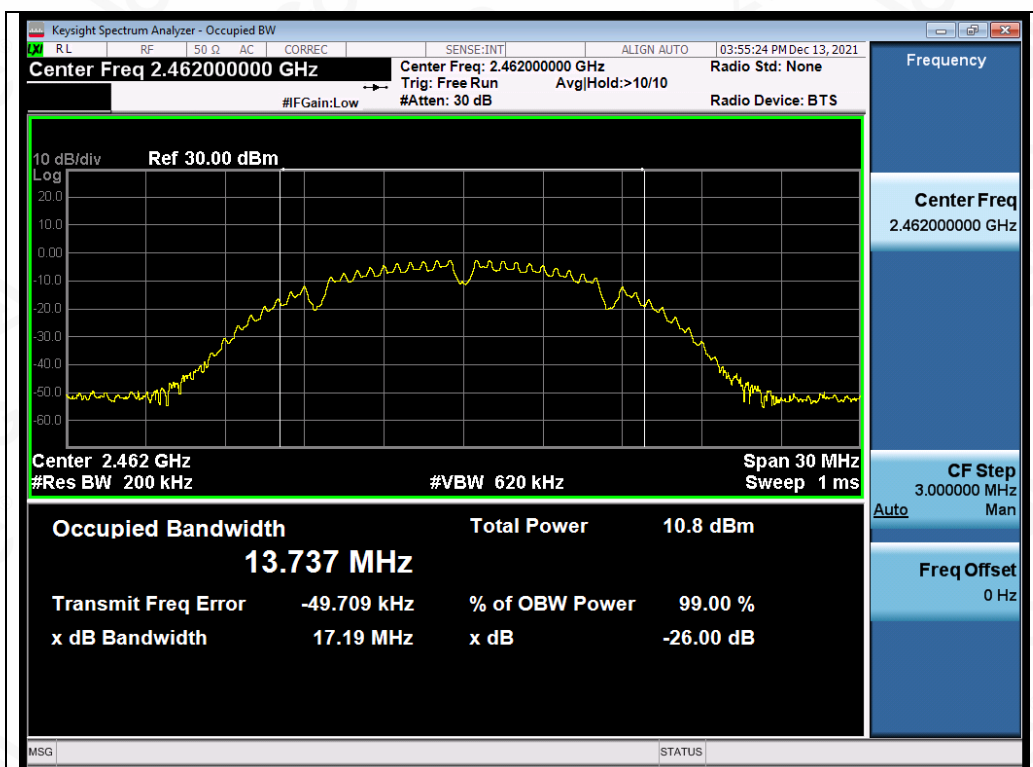


Test_Graph_802.11b_ANT1_2437_1Mbps_OBW

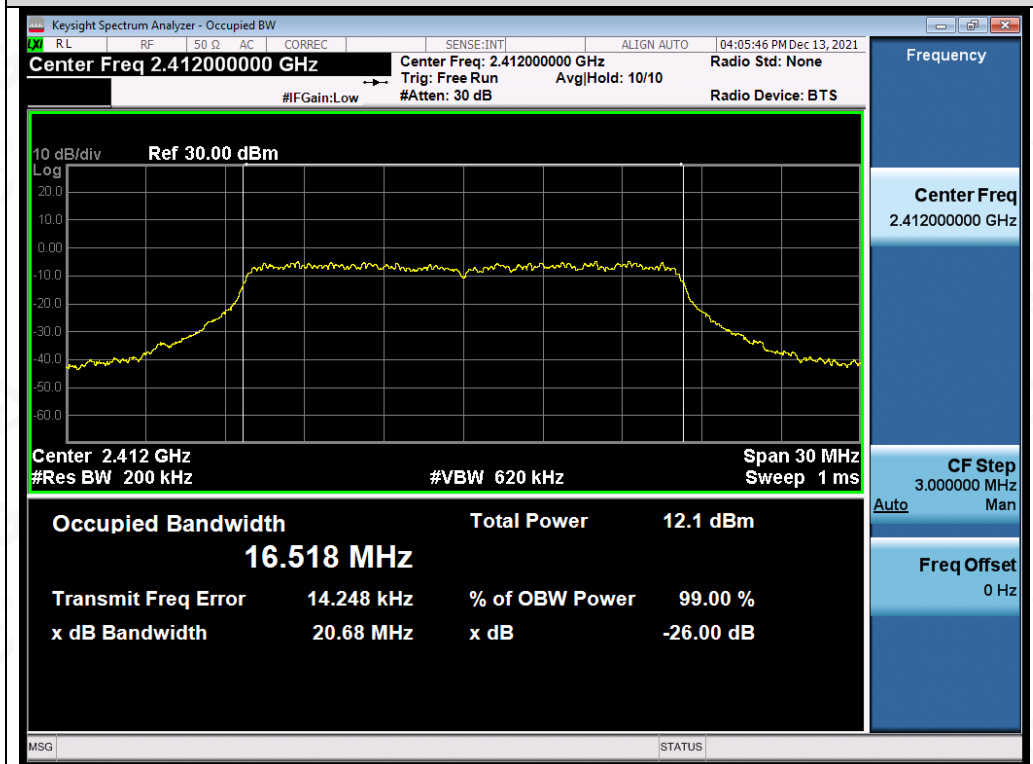
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Test_Graph_802.11b_ANT1_2462_1Mbps_OBW

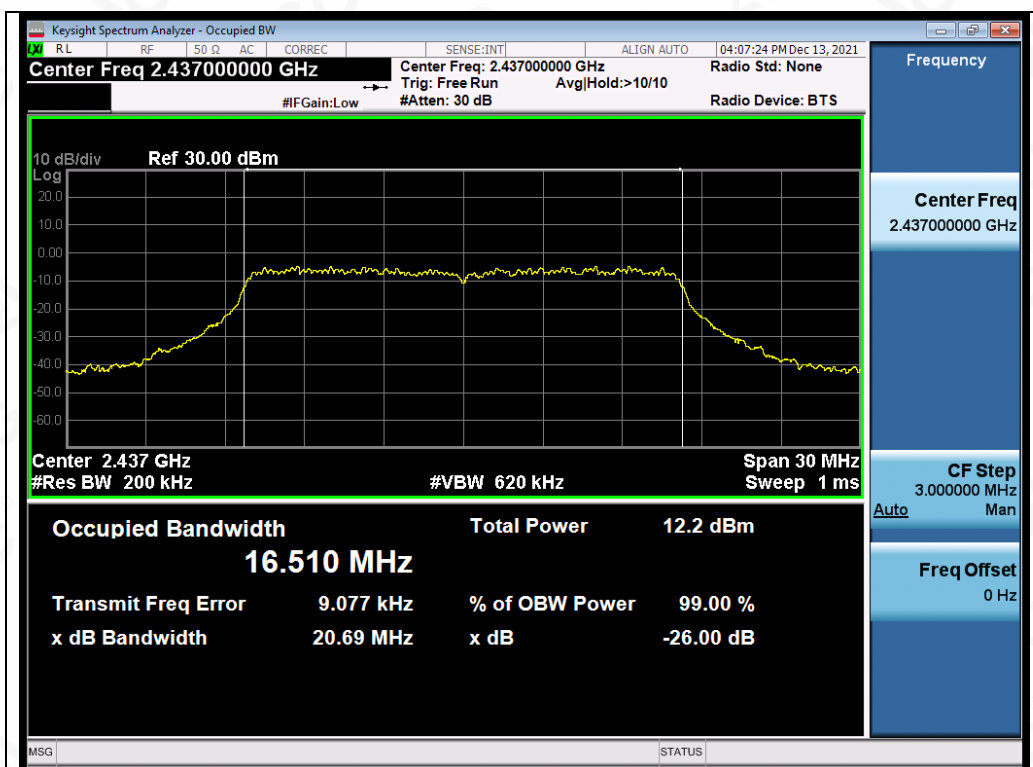


Test_Graph_802.11g_ANT1_2412_6Mbps_OBW

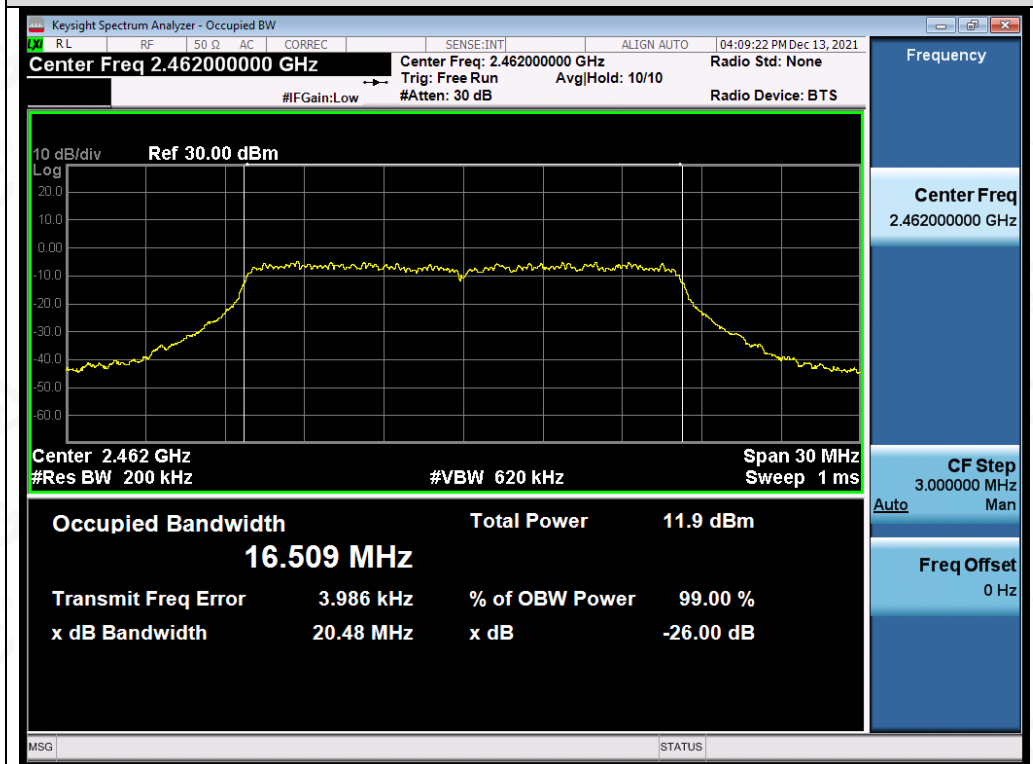
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Test_Graph_802.11g_ANT1_2437_6Mbps_OBW

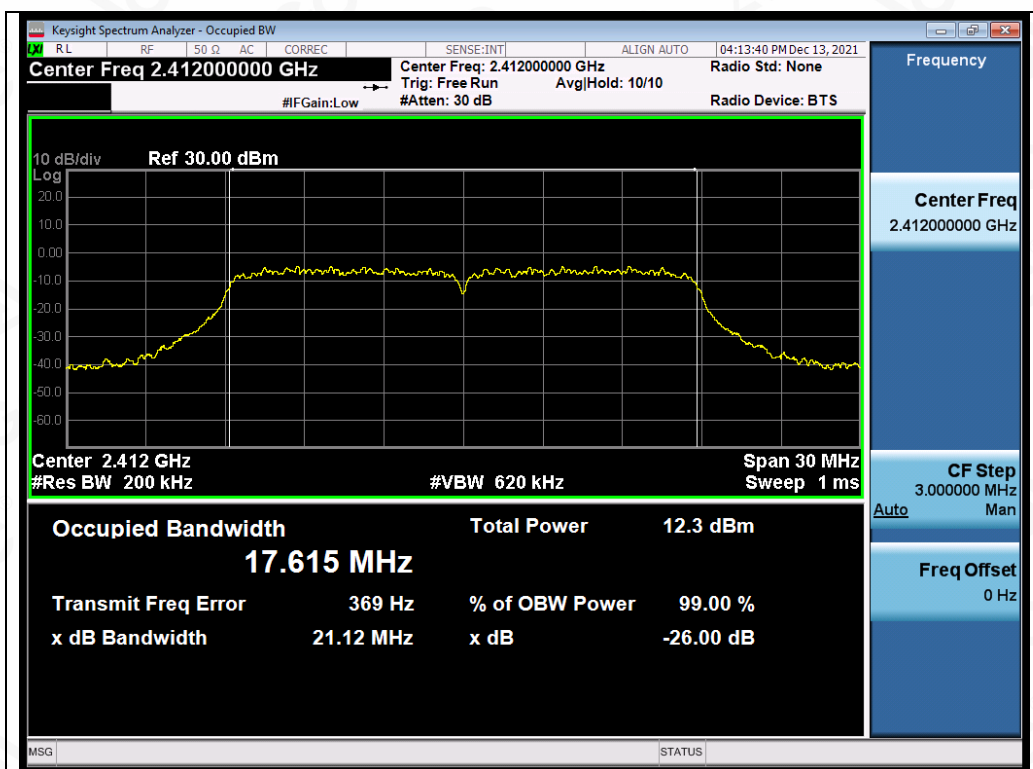


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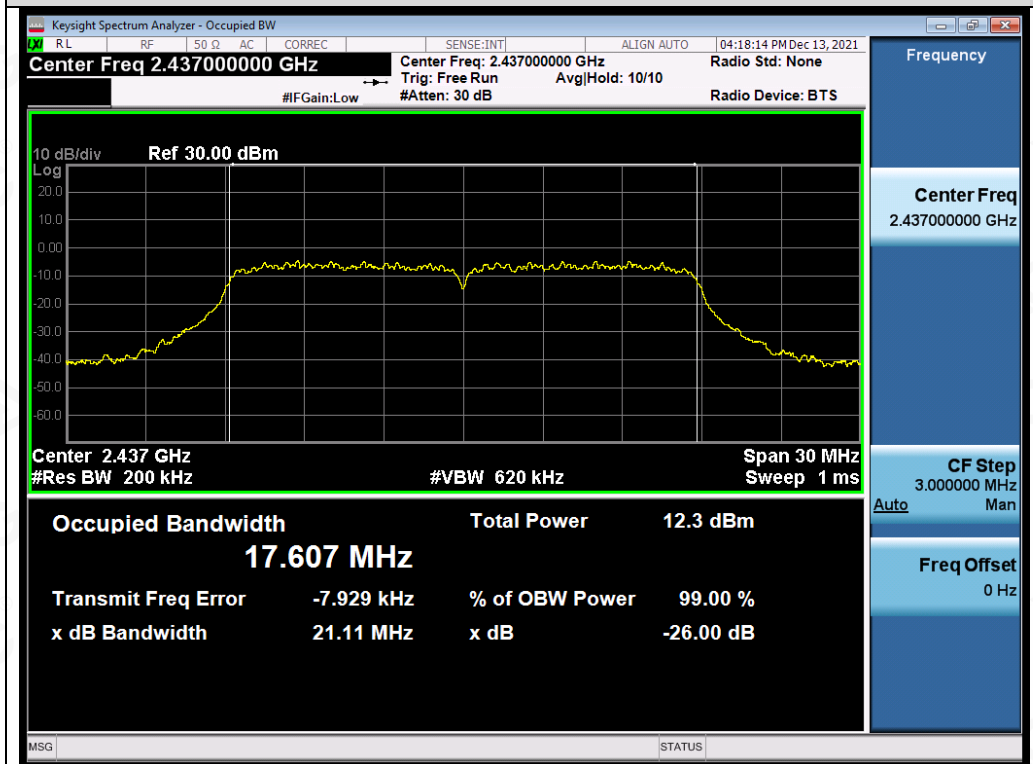
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Test_Graph_802.11n20_ANT1_2412_MCS0_OBW

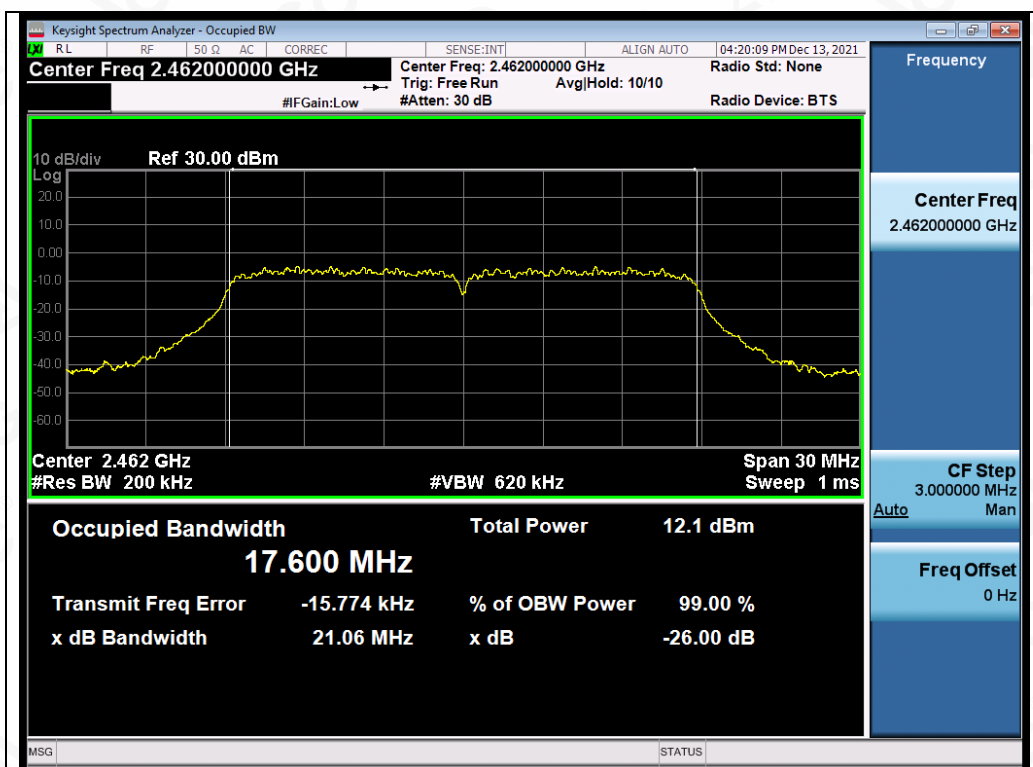


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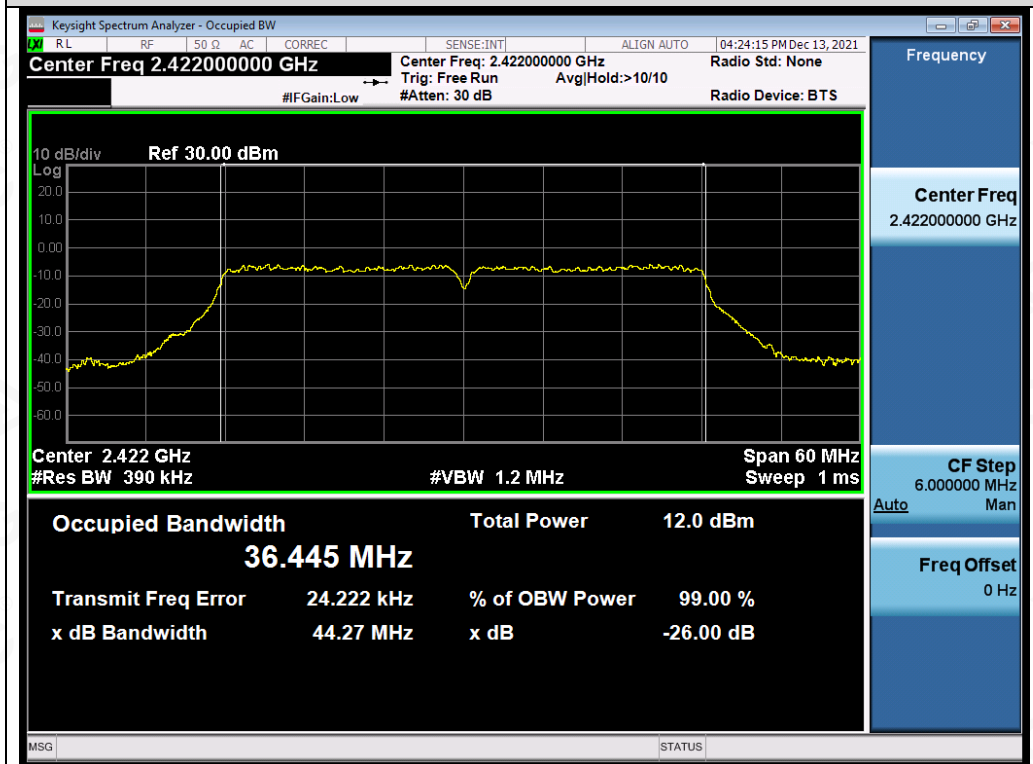
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Test_Graph_802.11n20_ANT1_2462_MCS0_OBW

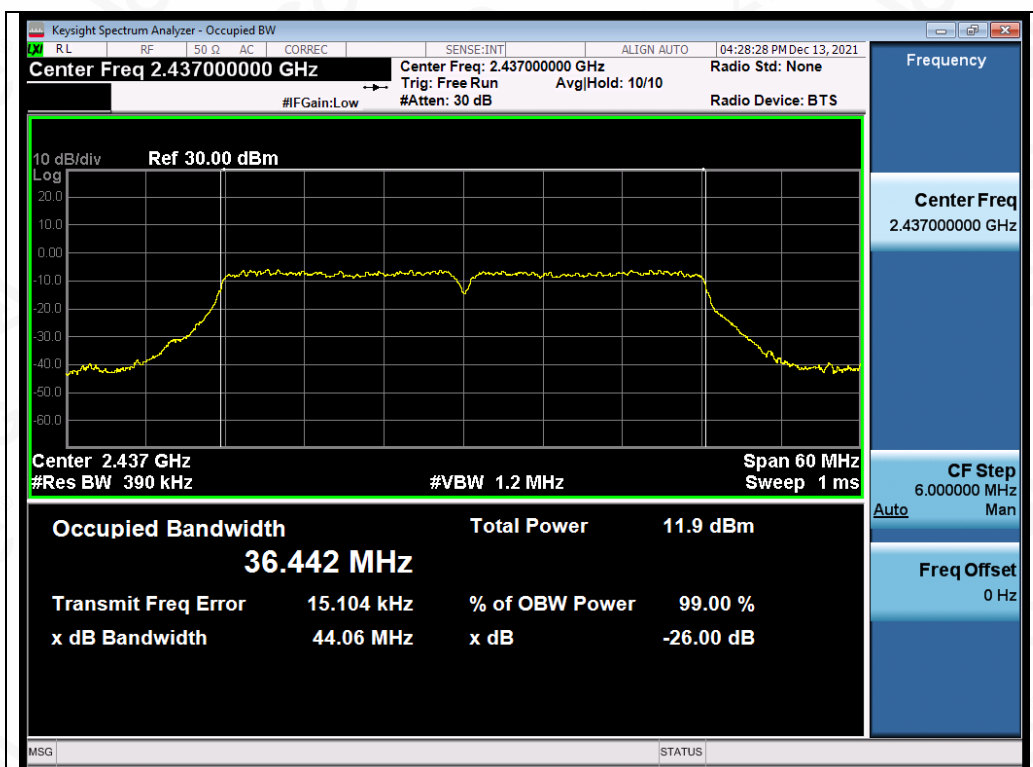


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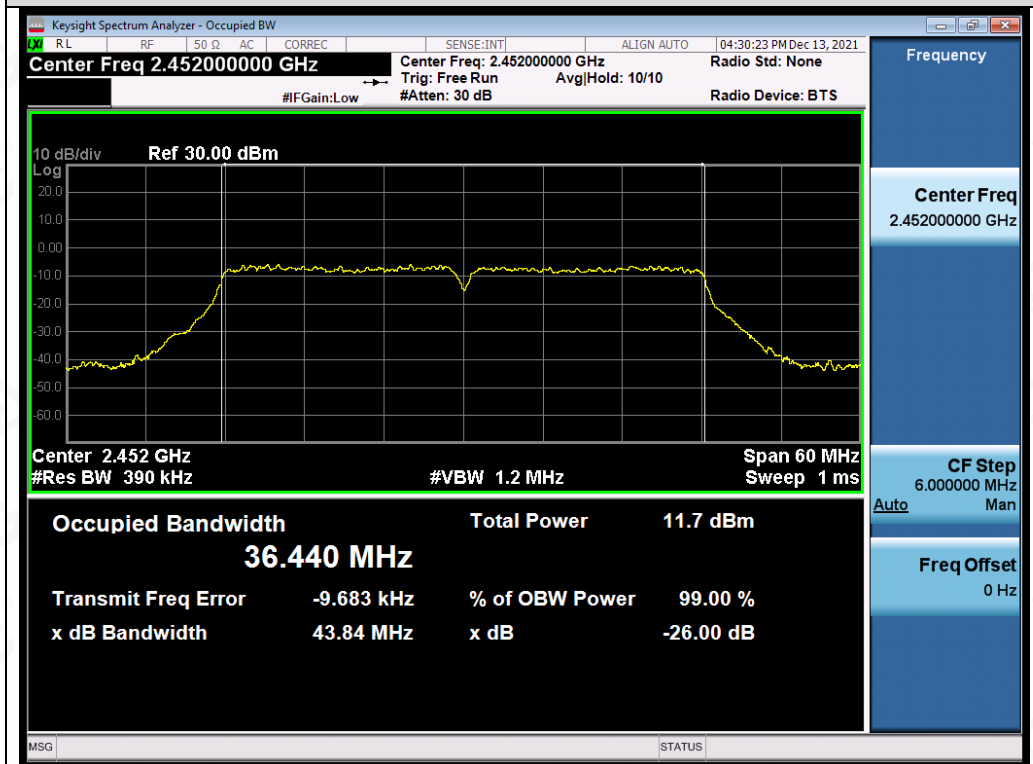
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Test_Graph_802.11n40_ANT1_2437_MCS0_OBW

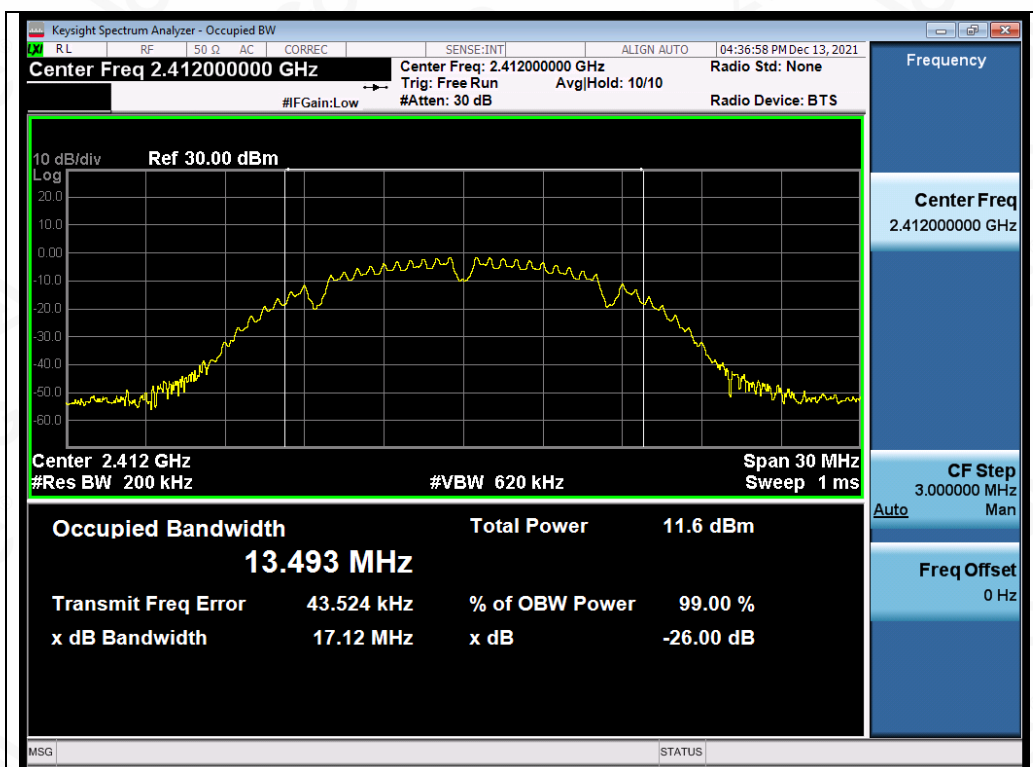


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Test_Graph_802.11b_ANT2_2412_1Mbps_OBW



Test_Graph_802.11b_ANT2_2437_1Mbps_OBW

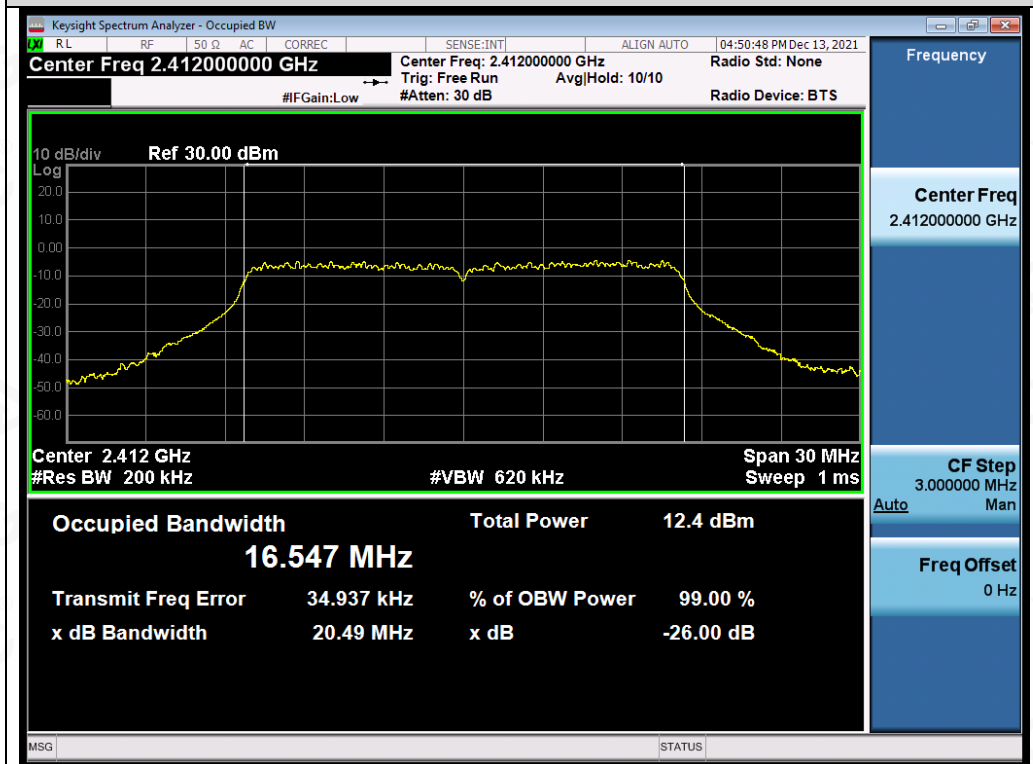
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Test_Graph_802.11b_ANT2_2462_1Mbps_OBW

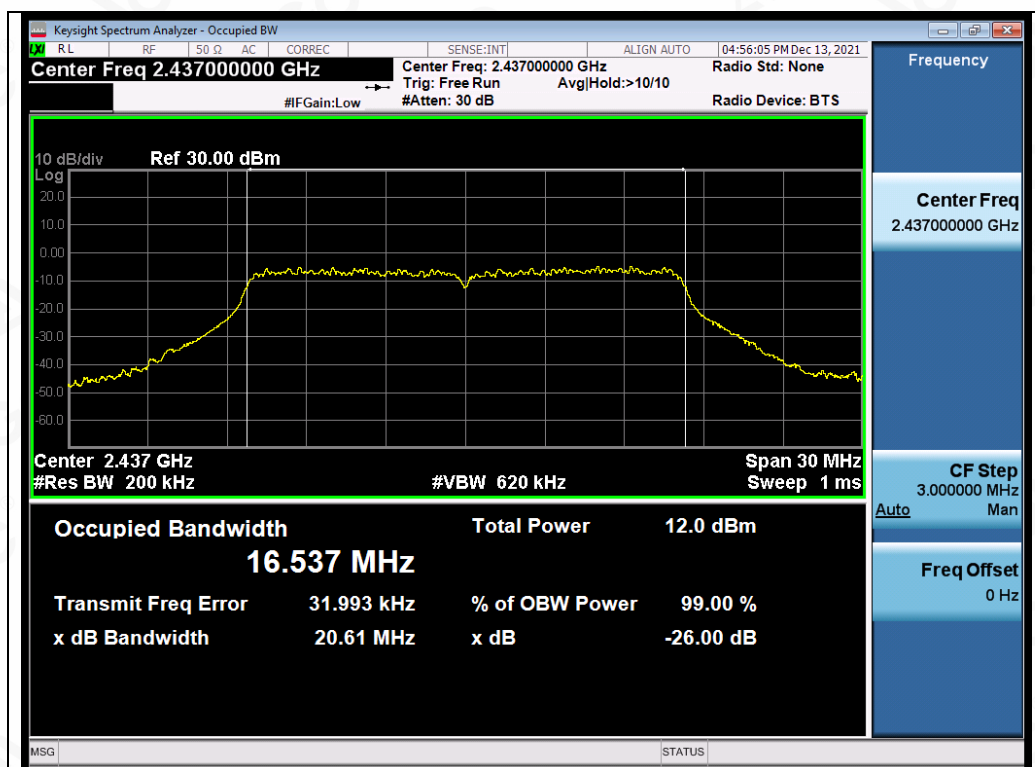


Test_Graph_802.11g_ANT2_2412_6Mbps_OBW

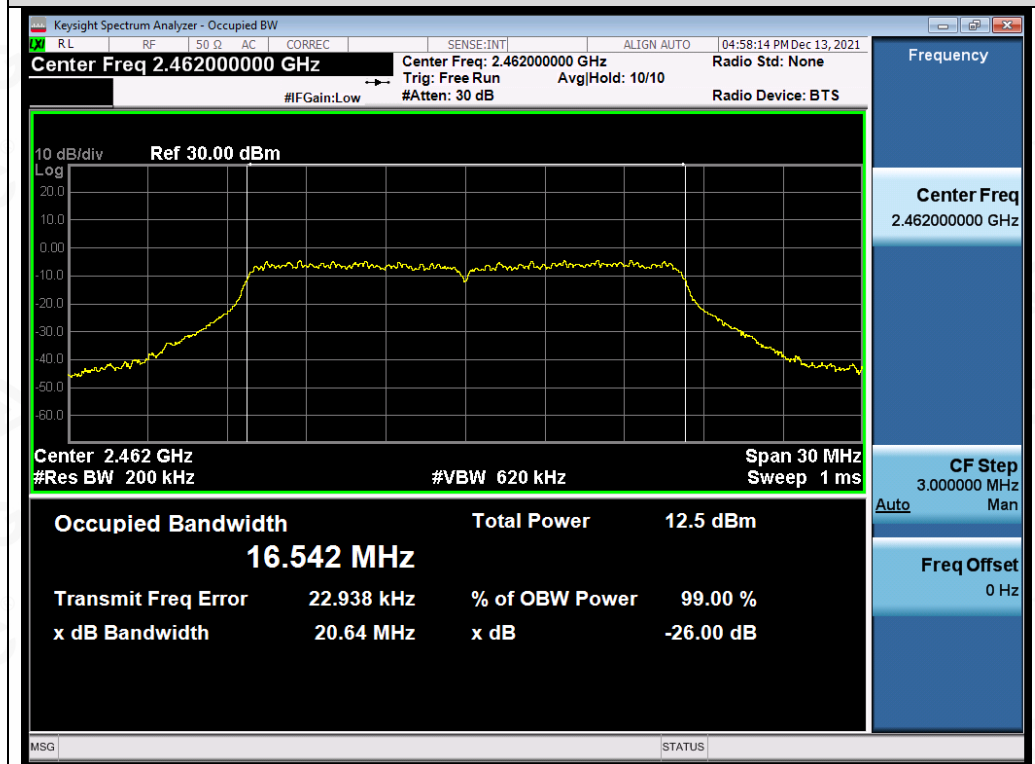
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Test_Graph_802.11g_ANT2_2437_6Mbps_OBW

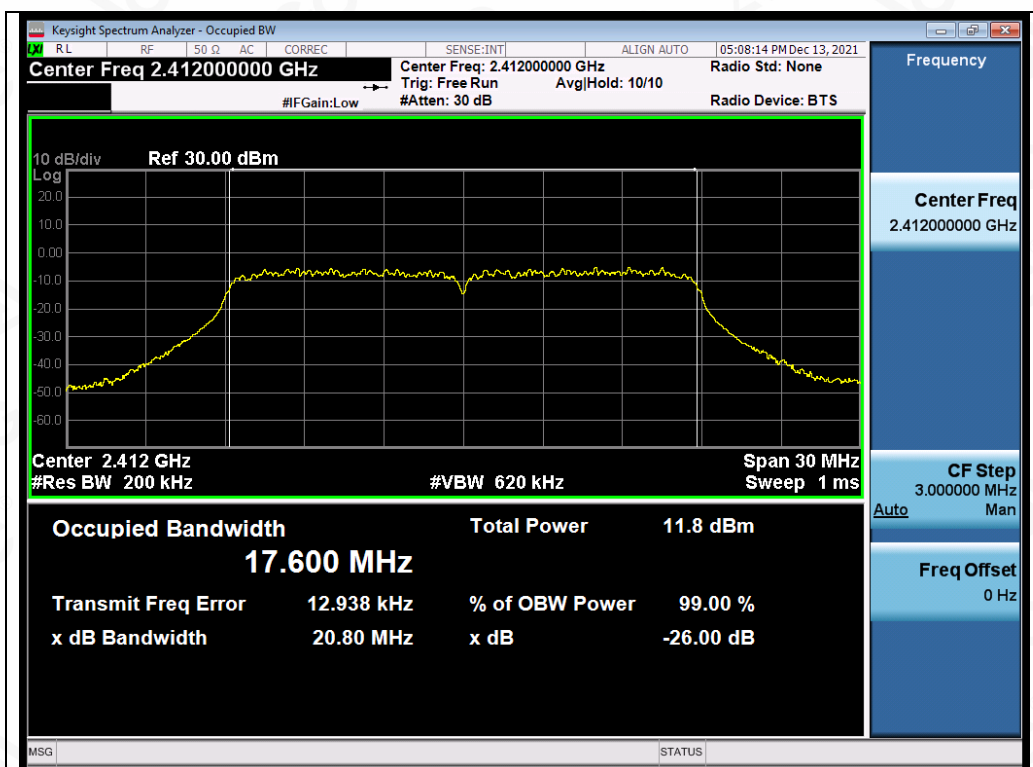


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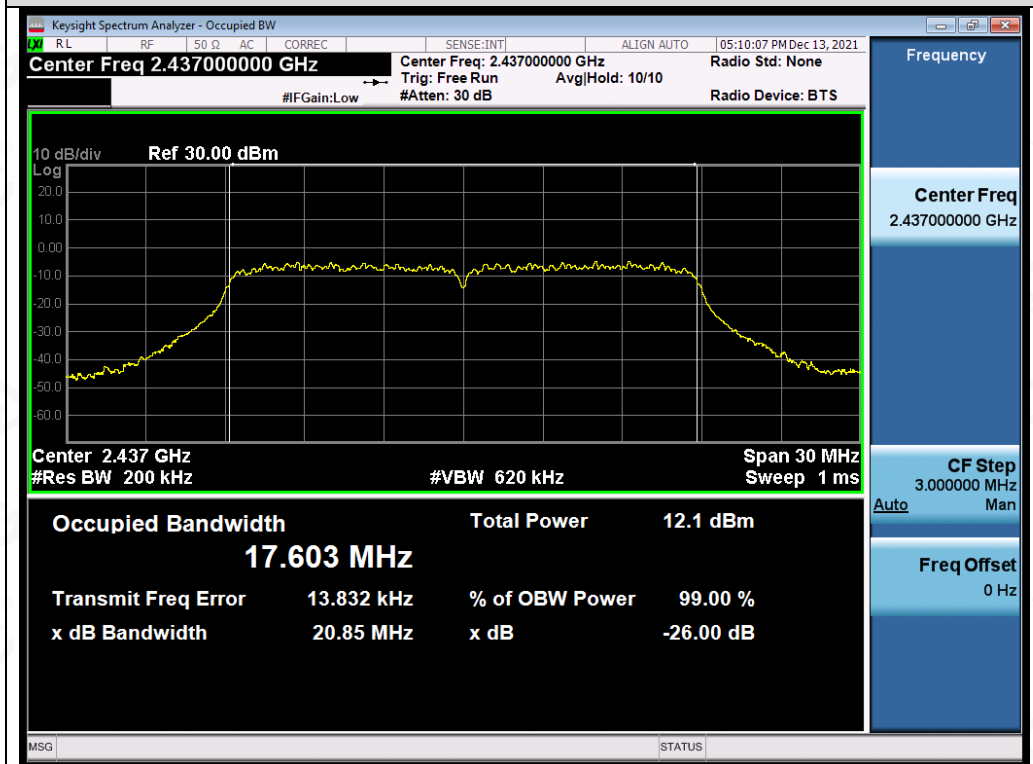
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Test_Graph_802.11n20_ANT2_2412_MCS0_OBW

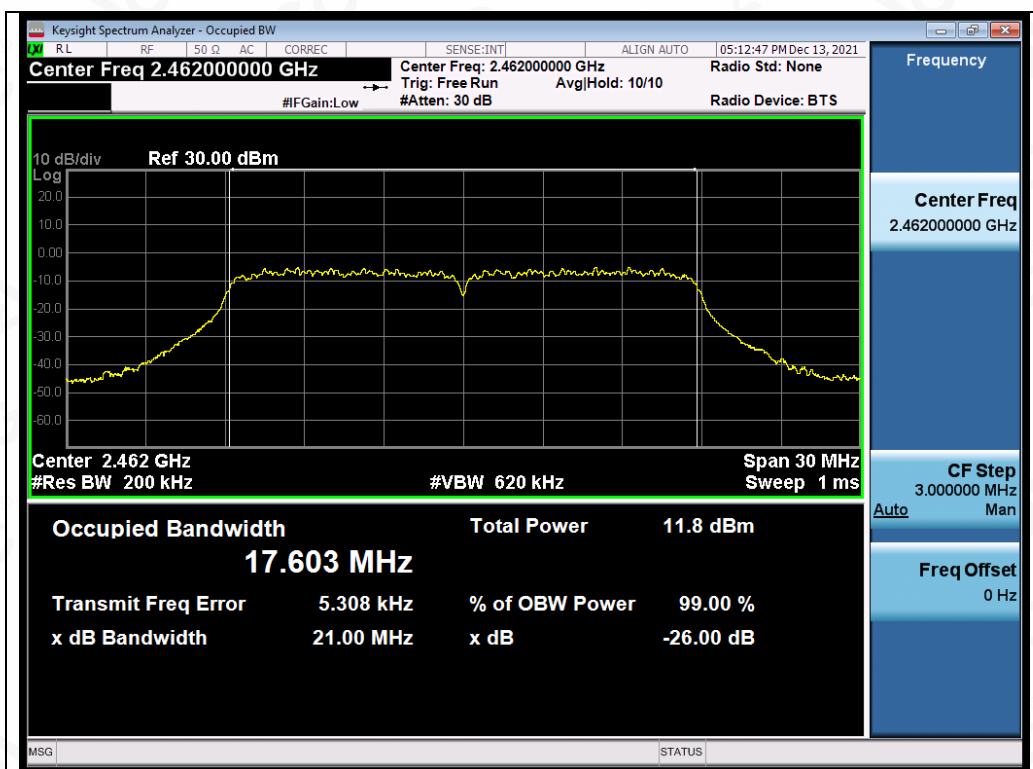


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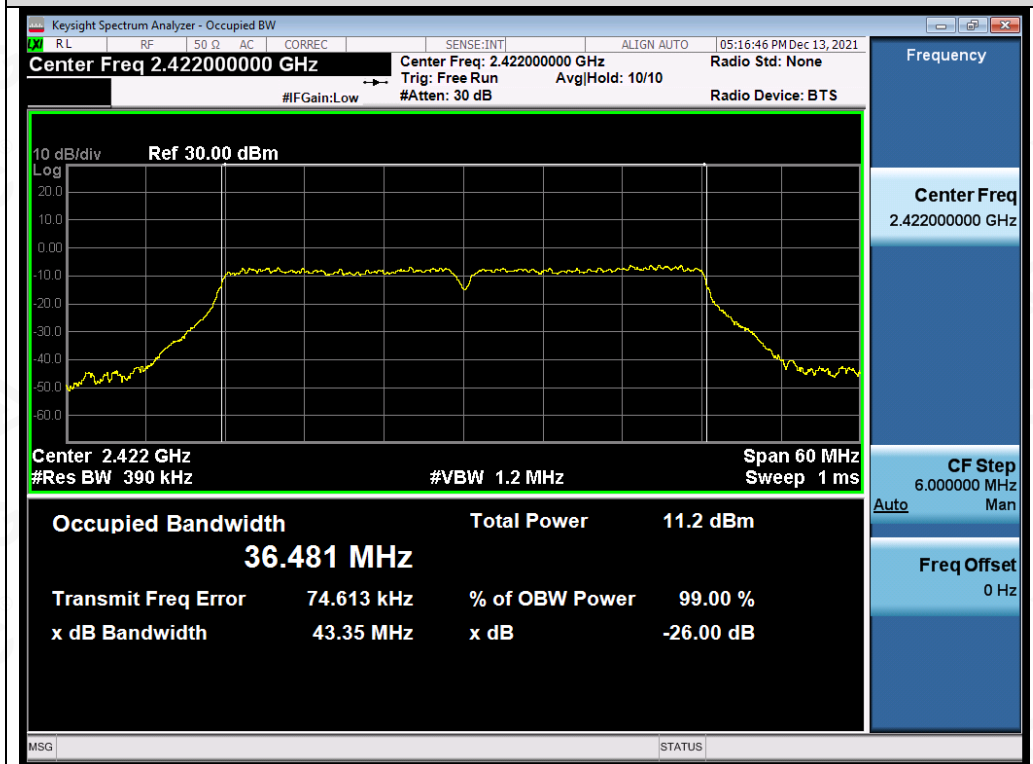
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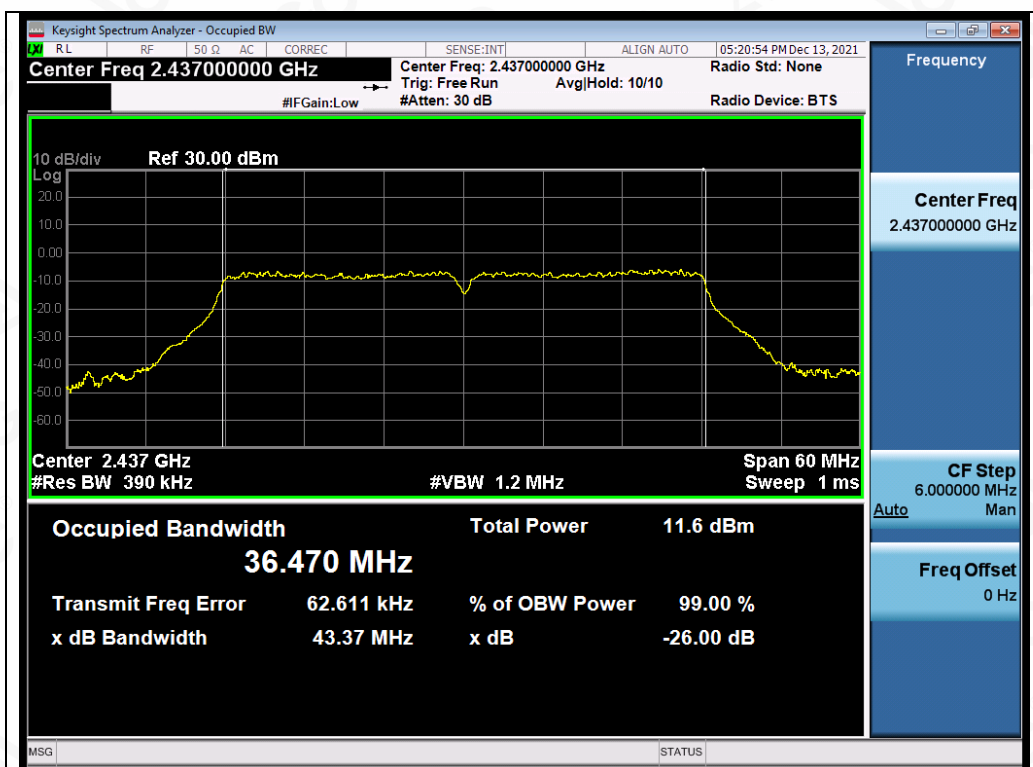


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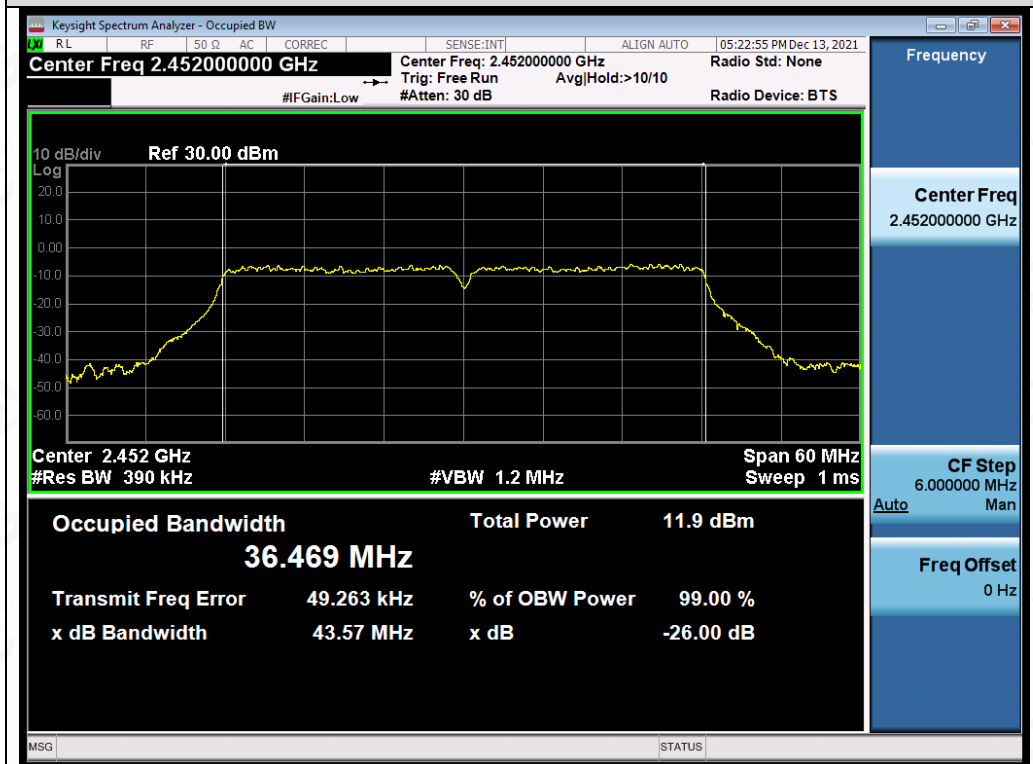
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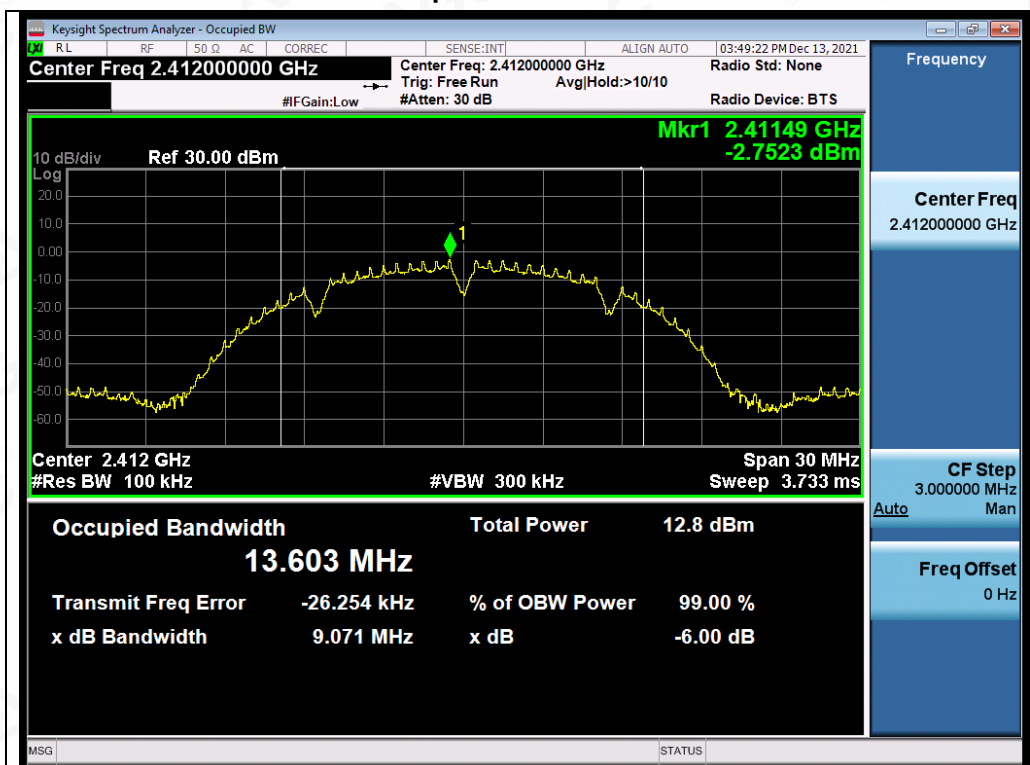
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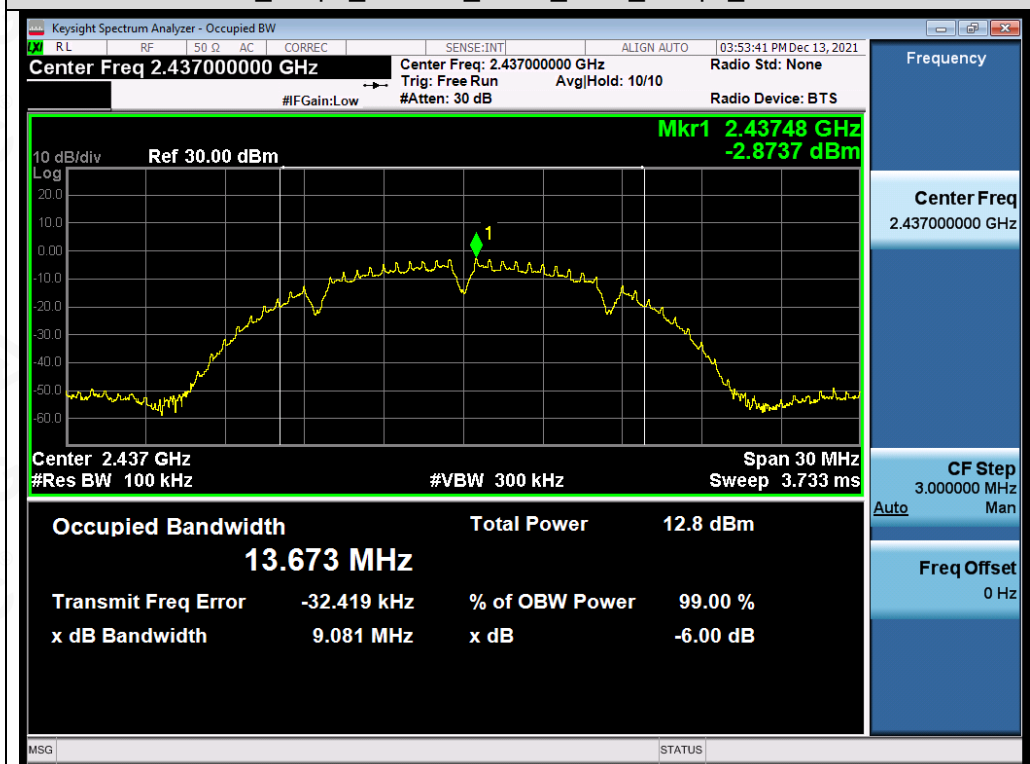
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Test Graphs of DTS Bandwidth



Test_Graph_802.11b_ANT1_2412_1Mbps_DTSBW



Test_Graph_802.11b_ANT1_2437_1Mbps_DTSBW

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Test_Graph_802.11b_ANT1_2462_1Mbps_DTSBW



Test_Graph_802.11g_ANT1_2412_6Mbps_DTSBW

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Test_Graph_802.11g_ANT1_2437_6Mbps_DTSBW

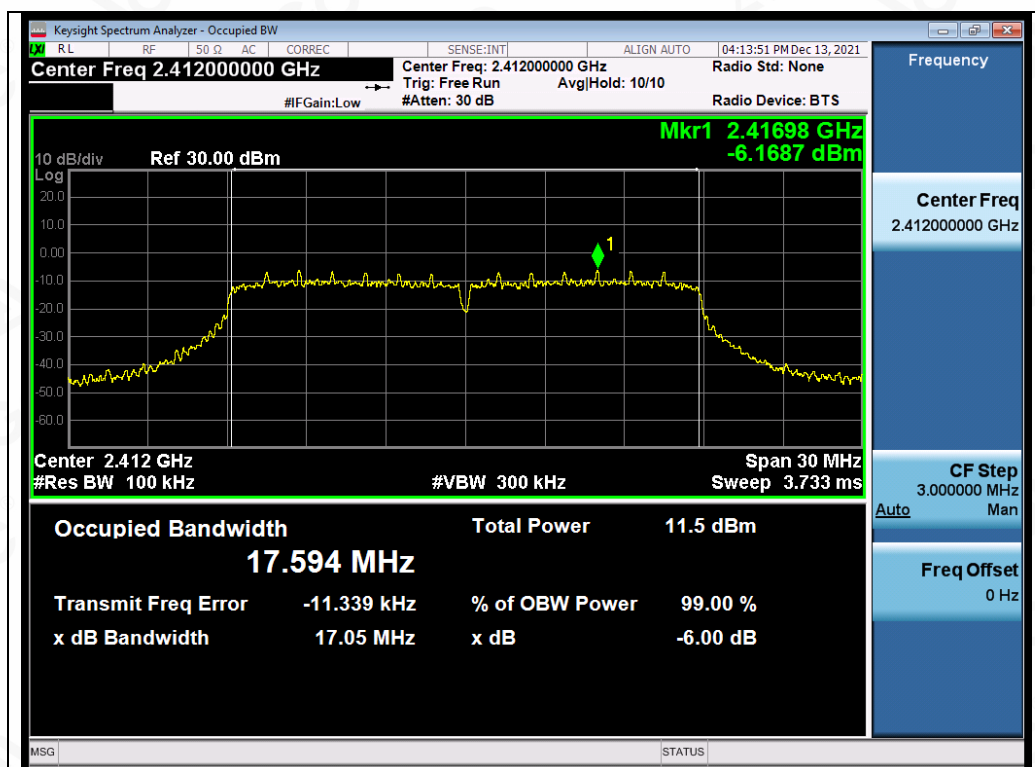


Test_Graph_802.11g_ANT1_2462_6Mbps_DTSBW

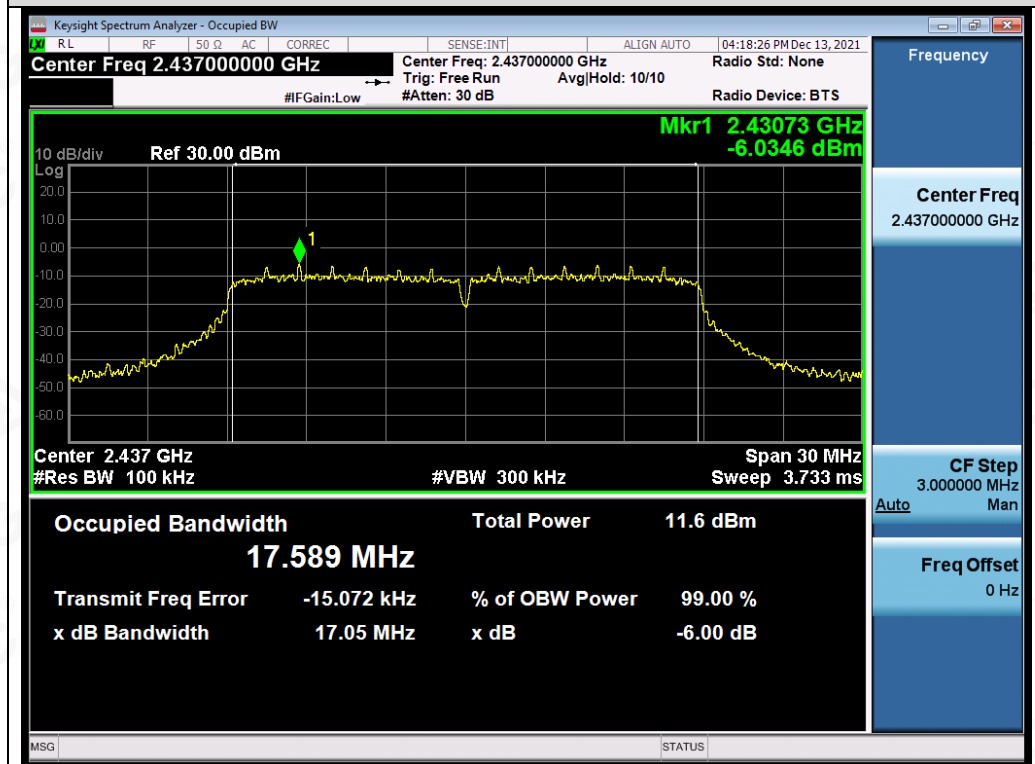
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Test_Graph_802.11n20_ANT1_2412_MCS0_DTSBW

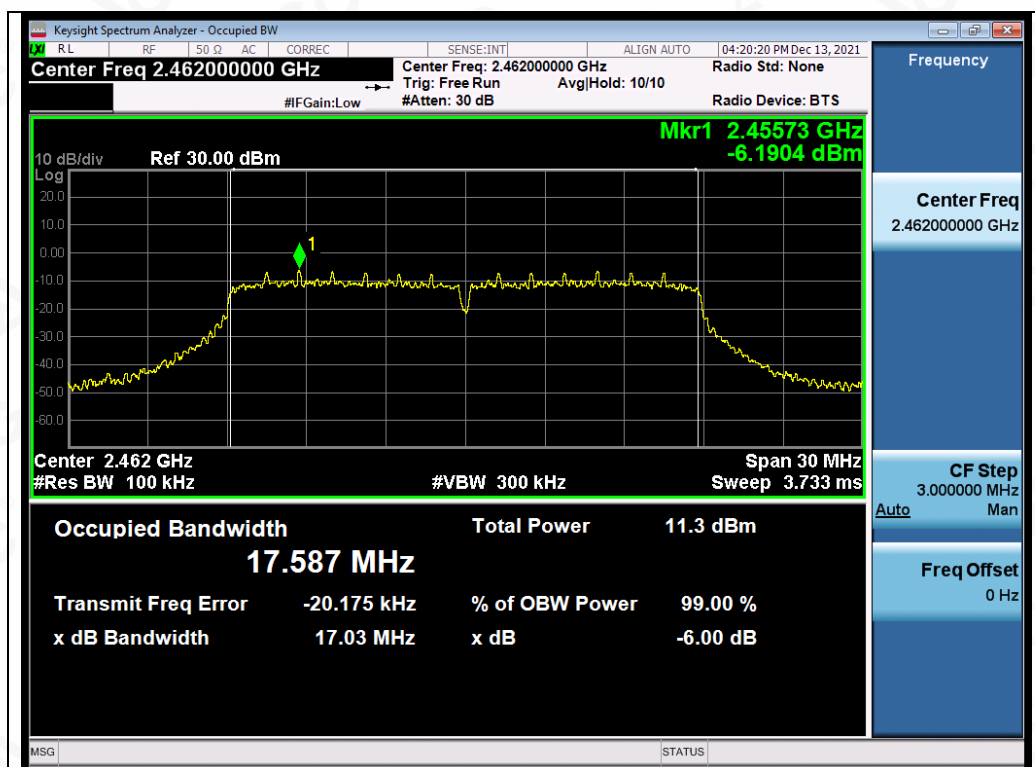


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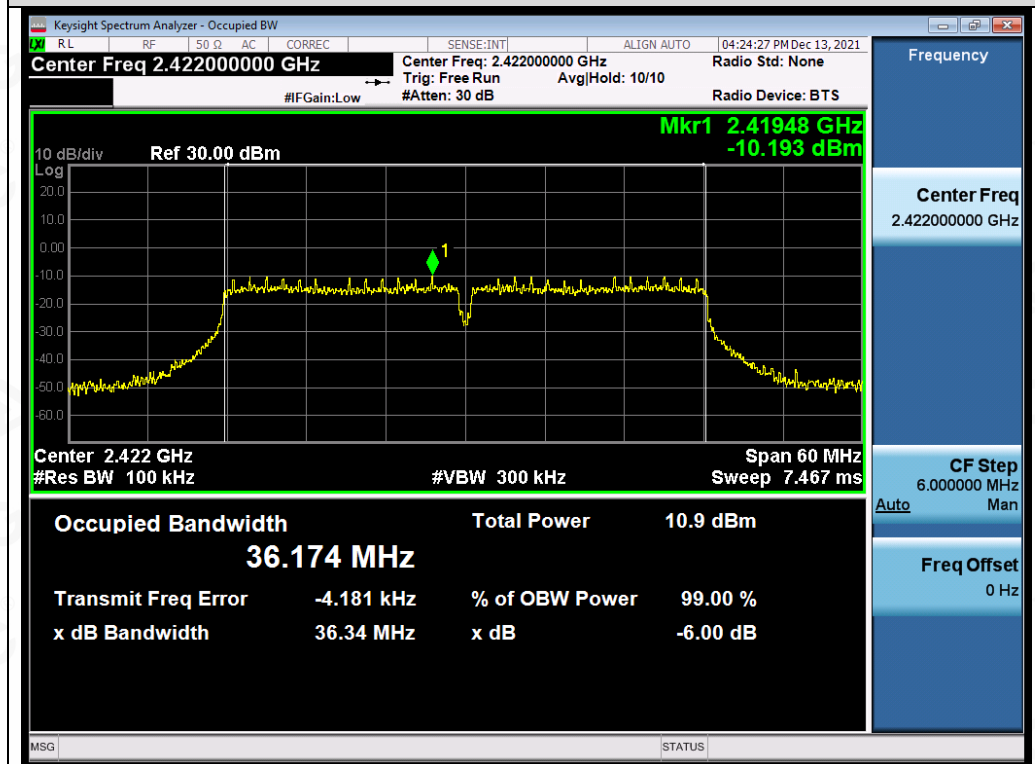
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Test_Graph_802.11n20_ANT1_2462_MCS0_DTSBW



Test_Graph_802.11n40_ANT1_2422_MCS0_DTSBW

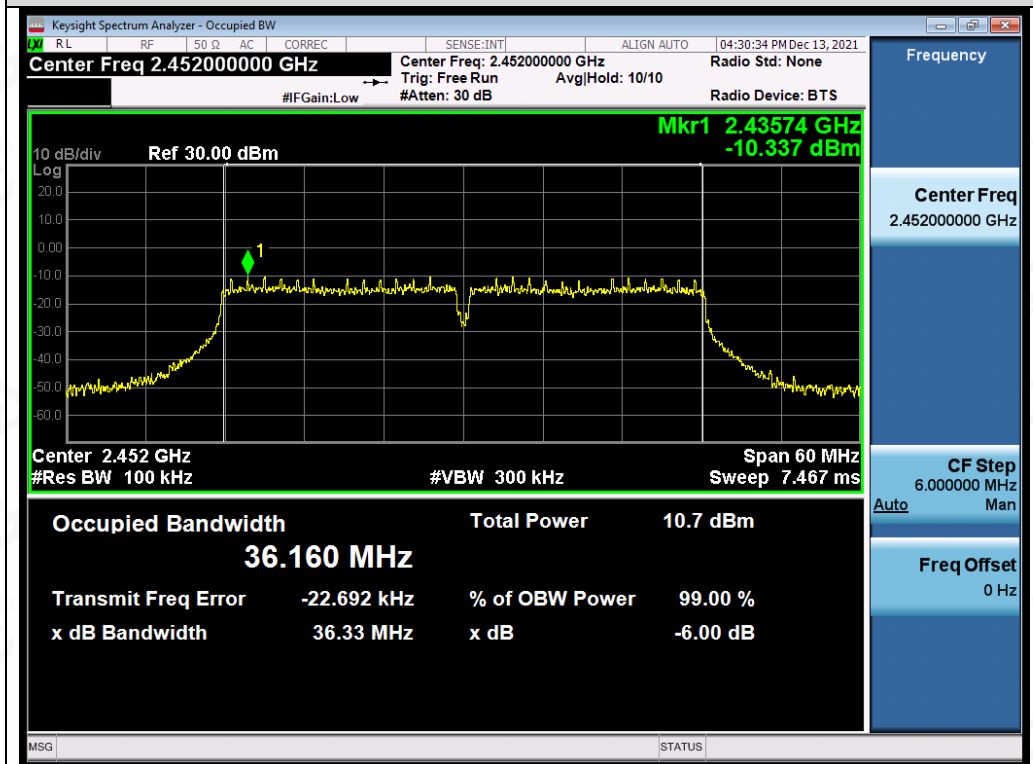
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Test_Graph_802.11n40_ANT1_2437_MCS0_DTSBW



Test_Graph_802.11n40_ANT1_2452_MCS0_DTSBW

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Test_Graph_802.11b_ANT2_2412_1Mbps_DTSBW



Test_Graph_802.11b_ANT2_2437_1Mbps_DTSBW

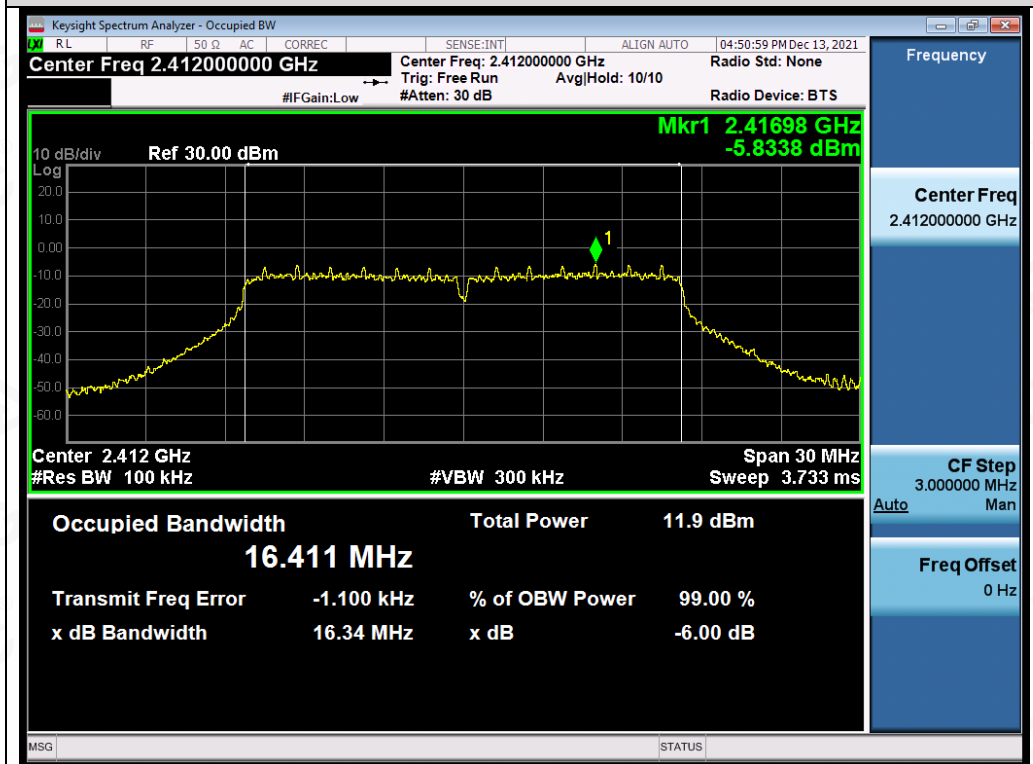
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Test_Graph_802.11b_ANT2_2462_1Mbps_DTSBW



Test_Graph_802.11g_ANT2_2412_6Mbps_DTSBW

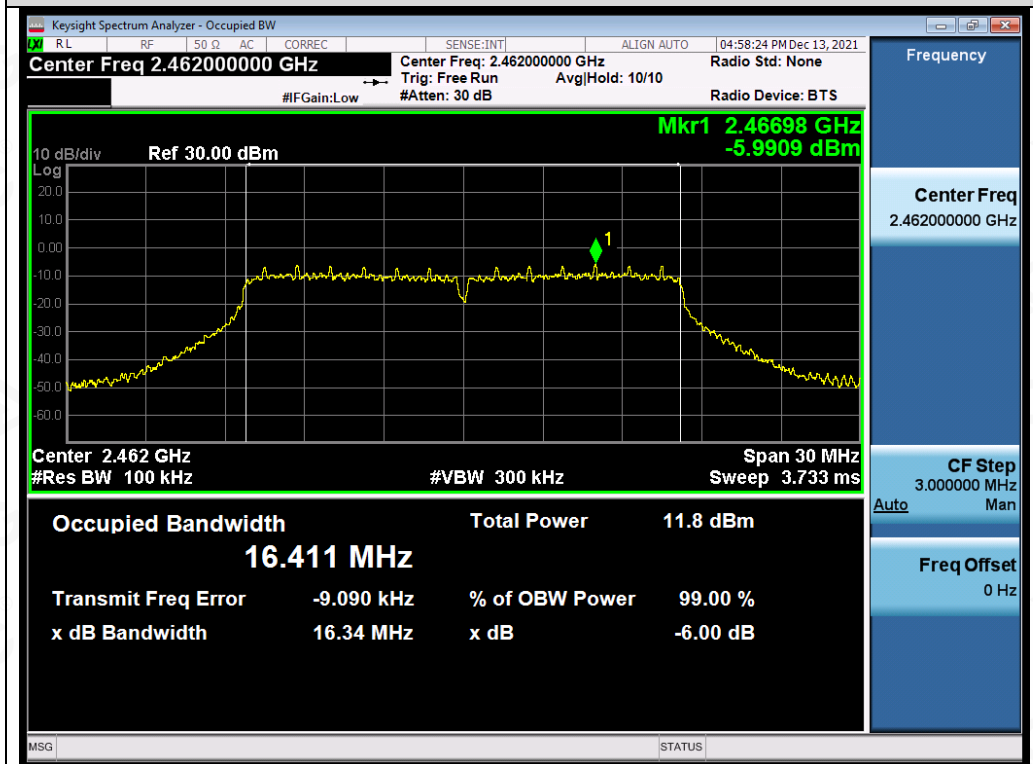
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Test_Graph_802.11g_ANT2_2437_6Mbps_DTSBW

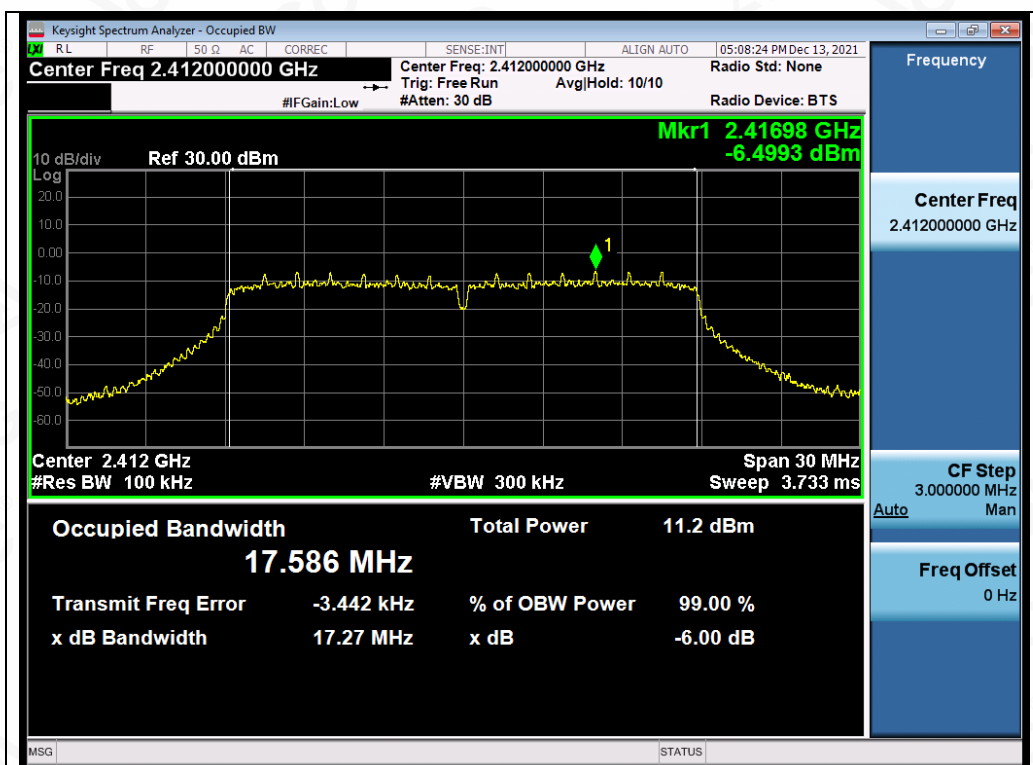


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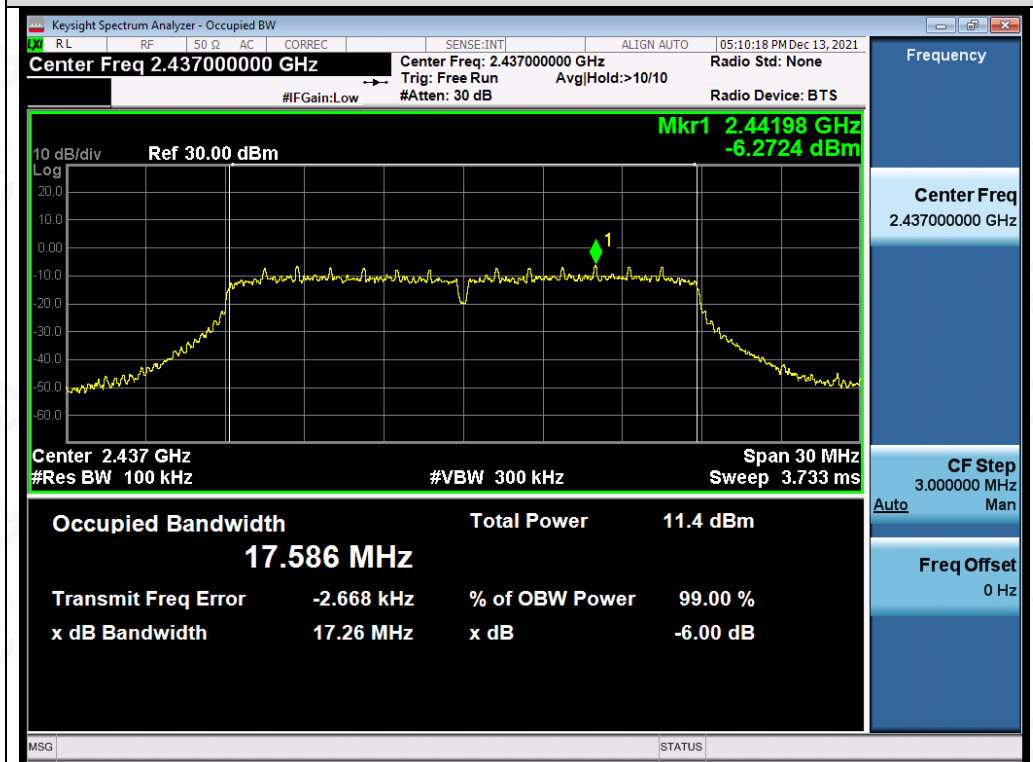
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Test_Graph_802.11n40_ANT2_2422_MCS0_DTSBW

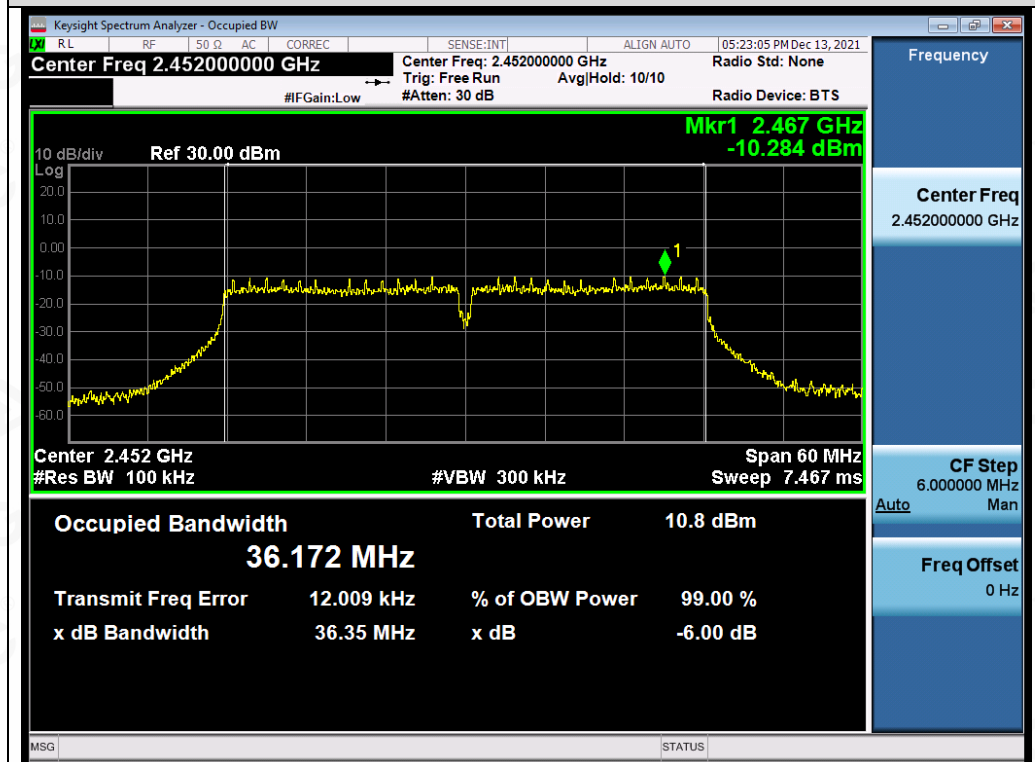
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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

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 SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a))	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

Note: The limits reference level is according to the test plot of -6dB bandwidth.

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