

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)

TEST PROCEDURE(S)

: FCC Part 15.247

REPORT VERSION : V1.0

Attestation of Global compliance (Shenzhen) Co., Ltd





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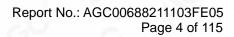
REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	1	Dec. 15, 2021	Valid	Initial Release	



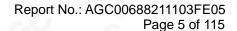
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1. VERIFICATION OF CONFORMITY

SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
Wireless USB Adapter
N/A
6B17
6B29
All the series models are the same as the test model except for the model names.
Nov. 18, 2021 to Dec. 15, 2021
No any deviation from the test method
Normal
Pass
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)

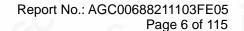
Calvin Liu
(Reviewer)

Approved By

Max Zhang
(Authorized Officer)

Dec. 15, 2021

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the continuous process of the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.





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	11.0
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 FREQUENCYS

Frequency Band	Channel Number	Frequency
100	C 1	2412 MHZ
®	2	2417 MHZ
GC C	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
	GC 7	2442 MHZ
8	8	2447 MHZ
100 CC	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	NCI	BPS	NDBPS			ata Mbps) nsGl
					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	9 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.

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



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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	Frequency	TX	Bandwidth	Max Peak Gain (dBi)		Max Directional Gain
Type	Band (MHz)	Paths	(MHz)	Ant 1	Ant 2	(dBi)
2.4GWIFI	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, Gant, Directional gain = Gant + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on devices:

Array Gain = 10 log (Nant/ Nss) dB = 3.01;

For power measurements on IEEE 802.11devices:

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

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥40 MHz for any Nant;

Array Gain = 5 log(Nant/Nss) dB or 3 dB, whichever is less, for 20 MHz channel widths with Nant ≥ 5.

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



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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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 = ±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 Date rate (1/2/5.5/11)

Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)

Transmit by 802.11n (40MHz) with Date 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:

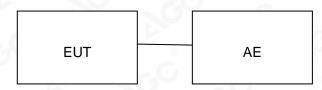
- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, 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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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

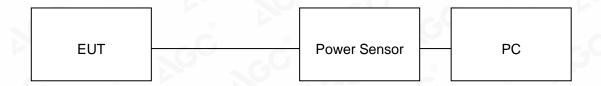
7.1. MEASUREMENT PROCEDURE

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
-0	2412	6.10	8.93	≪30	Pass
802.11b	2437	6.05	8.83	≼ 0	Pass
	2462	5.63	8.38	\$ 0	Pass
0	2412	5.85	13.76	⊴30	Pass
802.11g	2437	5.75	13.64	₹30	Pass
	2462	5.42	13.29	\$ 0	Pass
0	2412	5.69	13.43	₹30	Pass
802.11n20	2437	5.79	13.49	≼30	Pass
	2462	5.48	13.16	\$ 0	Pass
	2422	5.97	13.51	≤3 0	Pass
802.11n40	2437	5.83	13.36	≪30	Pass
	2452	5.77	13.29	≼3 0	Pass

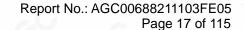
Test Data of Conducted Output Power-antenna 2						
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail	
0	2412	6.50	9.40	\$30	Pass	
802.11b	2437	6.24	9.17	\$ 0	Pass	
	2462	6.50	9.38	⊴ 30	Pass	
802.11g	2412	6.04	13.87	\$ 0	Pass	
	2437	5.66	13.44	\$30	Pass	
	2462	6.02	13.77	\$ 0	Pass	
10	2412	5.44	13.25	\$30	Pass	
802.11n20	2437	5.55	13.35	\$30	Pass	
	2462	5.33	13.12	⊴ 30	Pass	
A 100	2422	5.28	12.85	\$ 0	Pass	
802.11n40	2437	5.67	13.20	\$ 0	Pass	
	2452	5.87	13.39	\$ 0	Pass	



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g/Inspection The test results

	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
	2412	8.58	16.35	≤30	Pass
802.11n20	2437	8.68	16.43	≤30	Pass
	2462	8.42	16.15	≤30	Pass
	2422	8.65	16.20	≤30	Pass
802.11n40	2437	8.76	16.29	≤30	Pass
	2452	8.83	16.35	≤30	Pass





8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

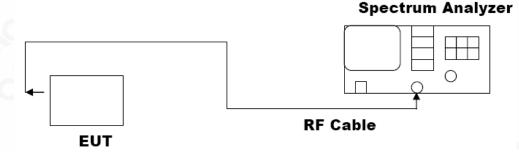
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

- 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 hoping 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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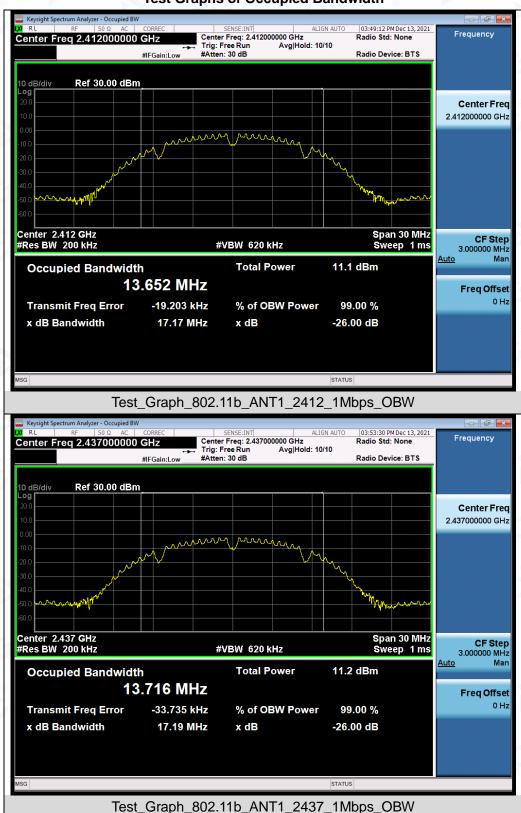
8.3. LIMITS AND MEASUREMENT RESULTS

	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		
C	2412	13.652	9.071	≥0.5	Pass		
802.11b	2437	13.716	9.081	≥0.5	Pass		
	2462	13.737	9.088	≥0.5	Pass		
6	2412	16.518	16.34	≥0.5	Pass		
802.11g	2437	16.510	16.34	≥0.5	Pass		
	2462	16.509	16.33	≥0.5	Pass		
	2412	17.615	17.05	≥0.5	Pass		
802.11n20	2437	17.607	17.05	≥0.5	Pass		
	2462	17.600	17.03	≥0.5	Pass		
	2422	36.445	36.34	≥0.5	Pass		
802.11n40	2437	36.442	36.33	≥0.5	Pass		
	2452	36.440	36.33	≥0.5	Pass		

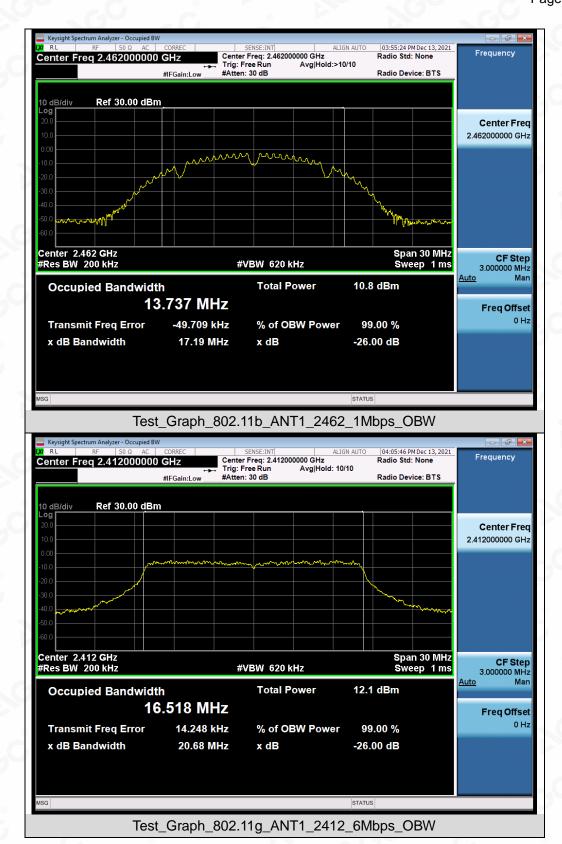
Test Data of Occupied Bandwidth and DTS Bandwidth-antenna 2						
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail	
8	2412	13.493	9.075	≥0.5	Pass	
802.11b	2437	13.512	9.063	≥0.5	Pass	
	2462	13.561	9.073	≥0.5	Pass	
	2412	16.547	16.34	≥0.5	Pass	
802.11g	2437	16.537	16.35	≥0.5	Pass	
	2462	16.542	16.34	≥0.5	Pass	
	2412	17.600	17.27	≥0.5	Pass	
802.11n20	2437	17.603	17.26	≥0.5	Pass	
	2462	17.603	17.27	≥0.5	Pass	
	2422	36.481	36.32	≥0.5	Pass	
802.11n40	2437	36.470	36.32	≥0.5	Pass	
	2452	36.469	36.35	≥0.5	Pass	



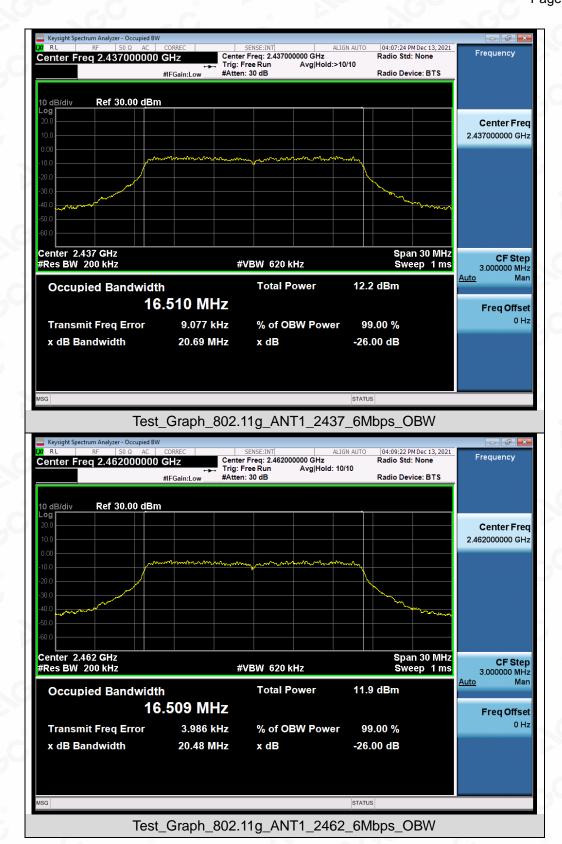
Test Graphs of Occupied Bandwidth



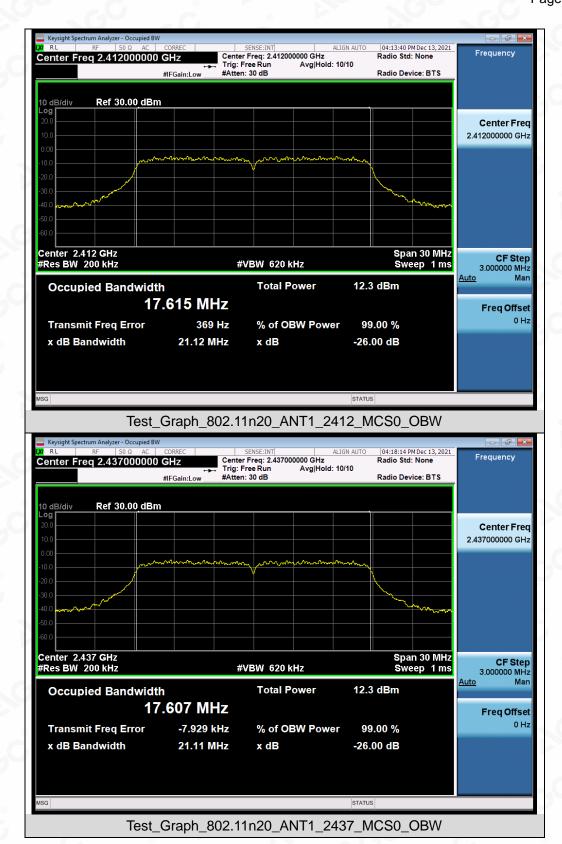




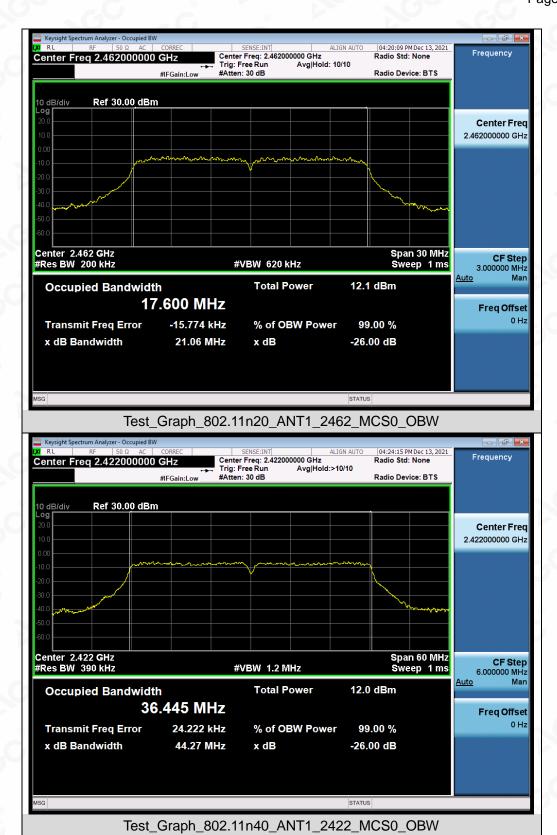




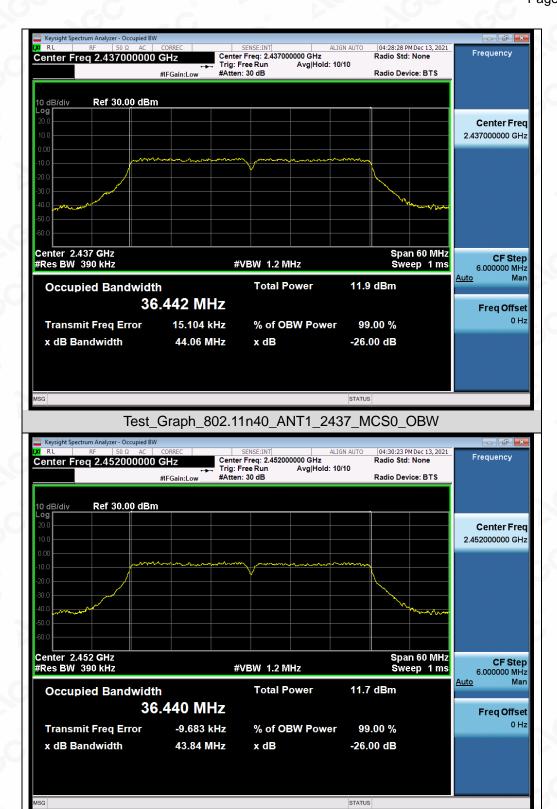










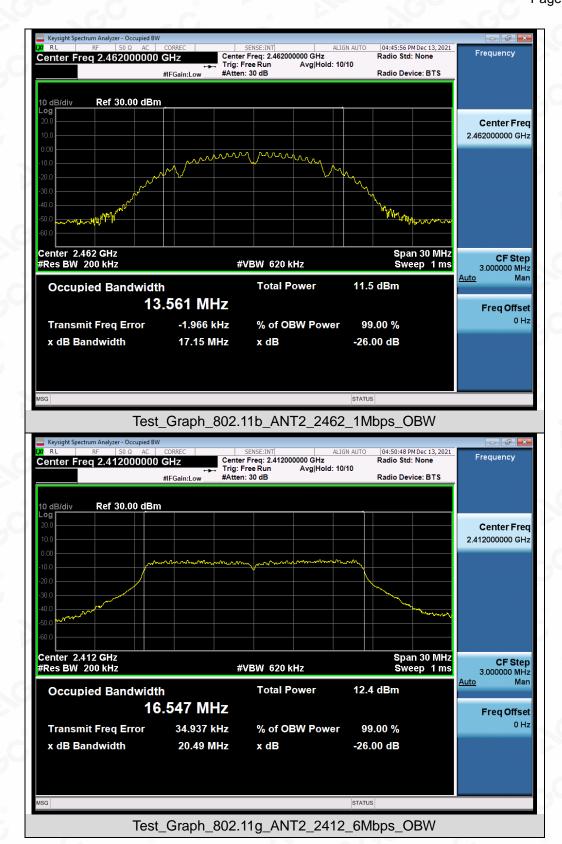


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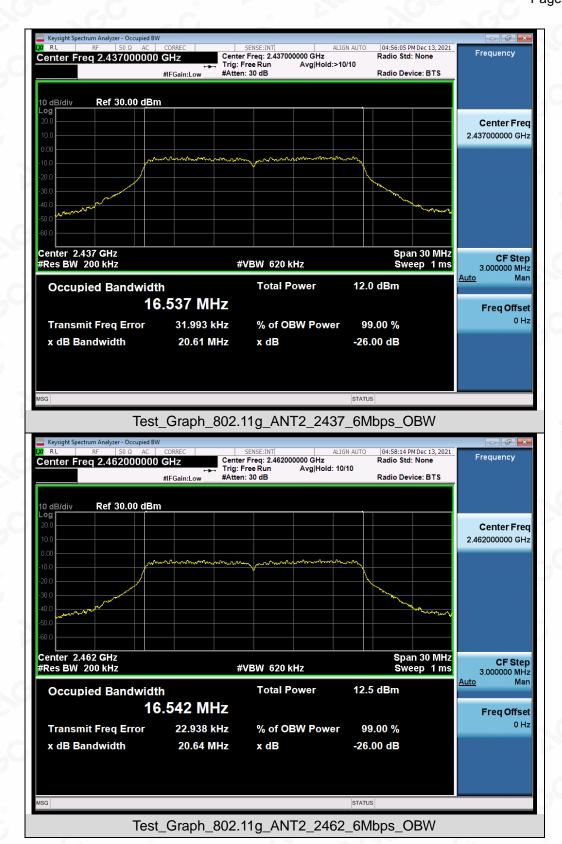




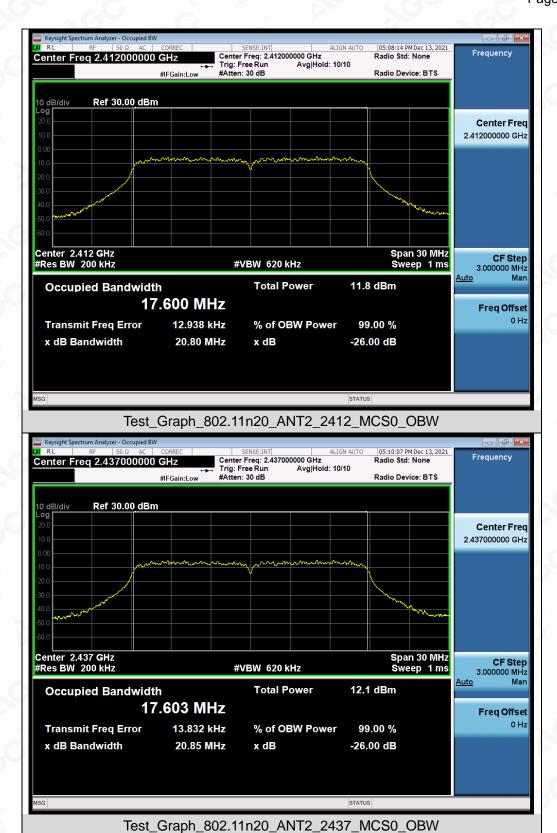










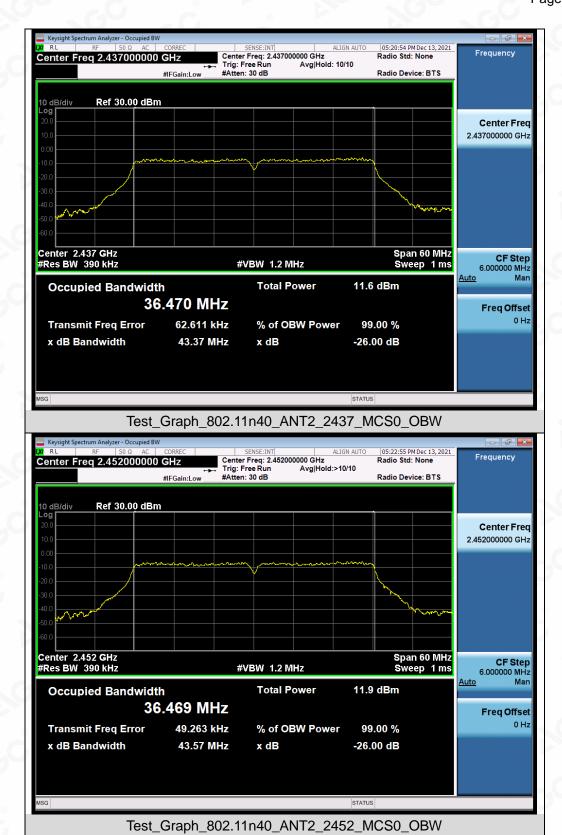






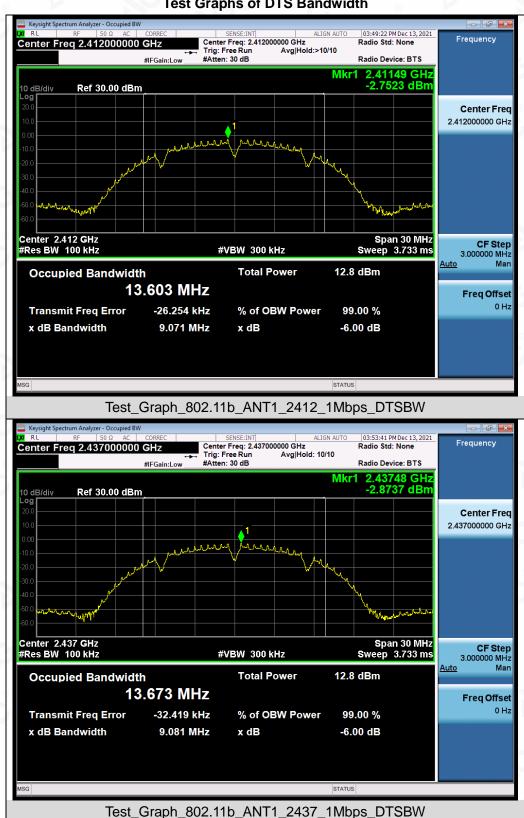
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Test Graphs of DTS Bandwidth

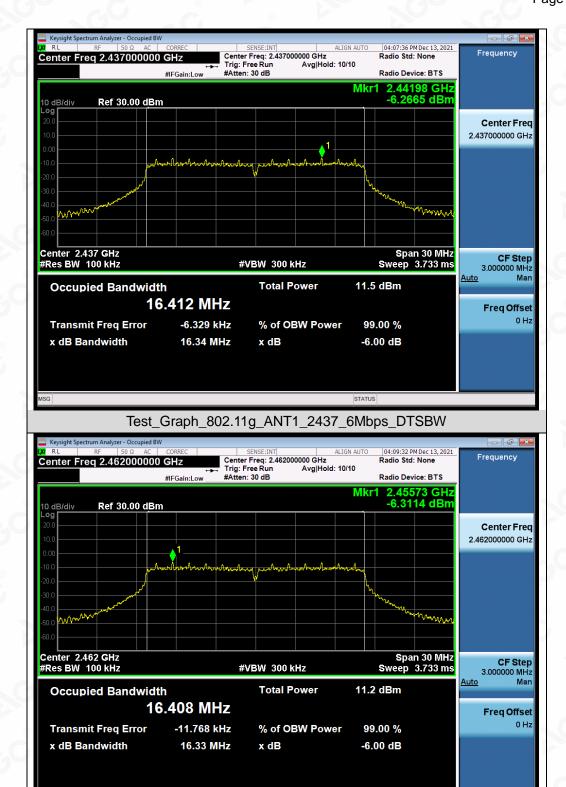


Compliance Bedicated Fest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the a/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written and n The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15d the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.









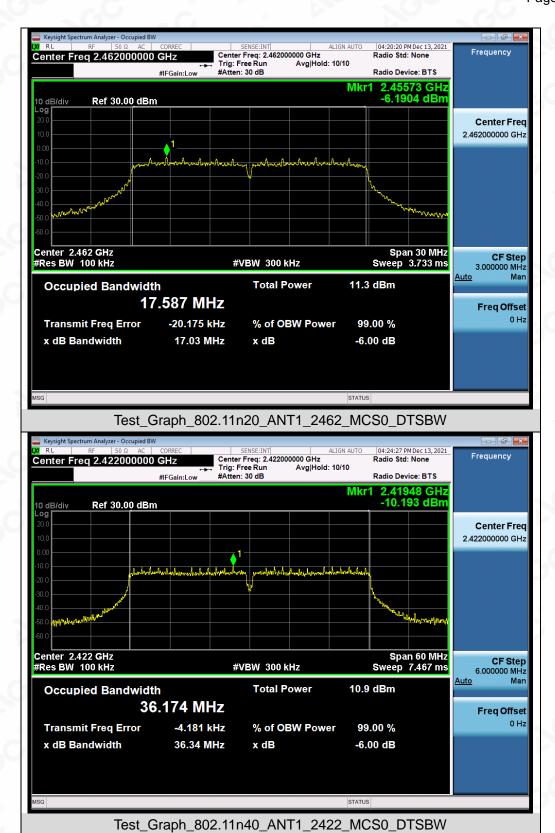
Test_Graph_802.11g_ANT1_2462_6Mbps_DTSBW





Test_Graph_802.11n20_ANT1_2437_MCS0_DTSBW



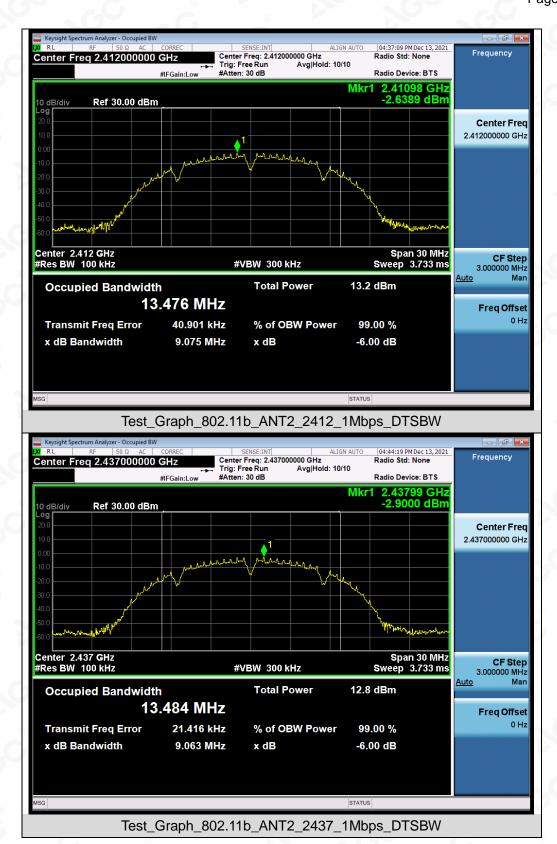




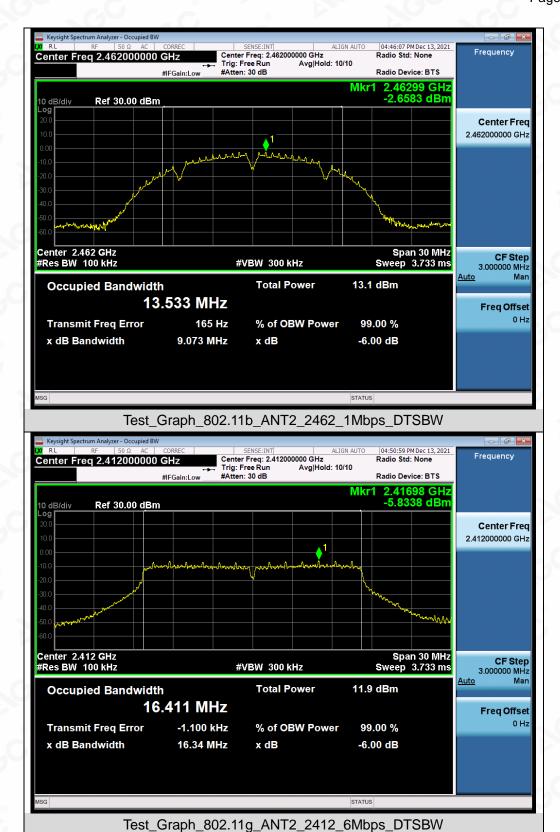


Test_Graph_802.11n40_ANT1_2452_MCS0_DTSBW

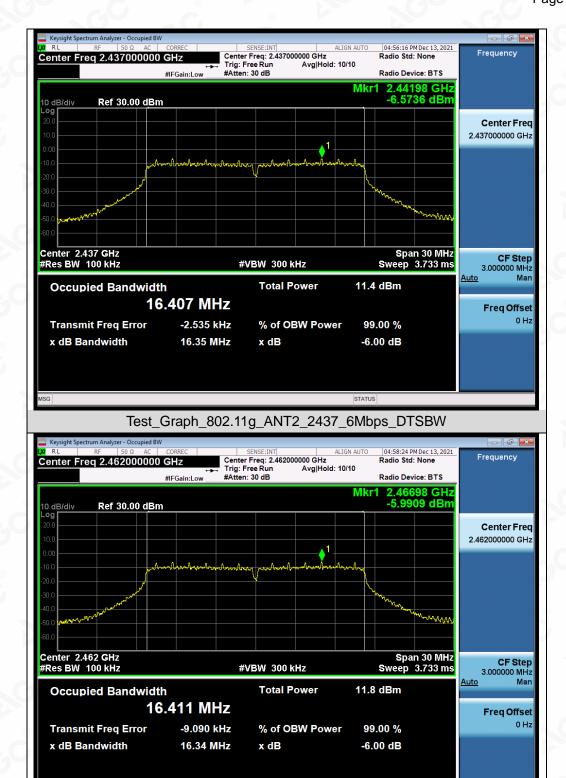






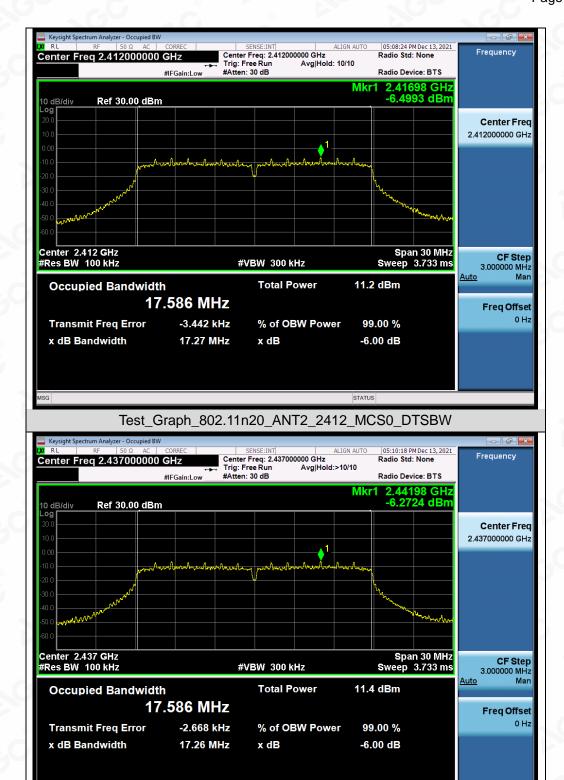






Test_Graph_802.11g_ANT2_2462_6Mbps_DTSBW



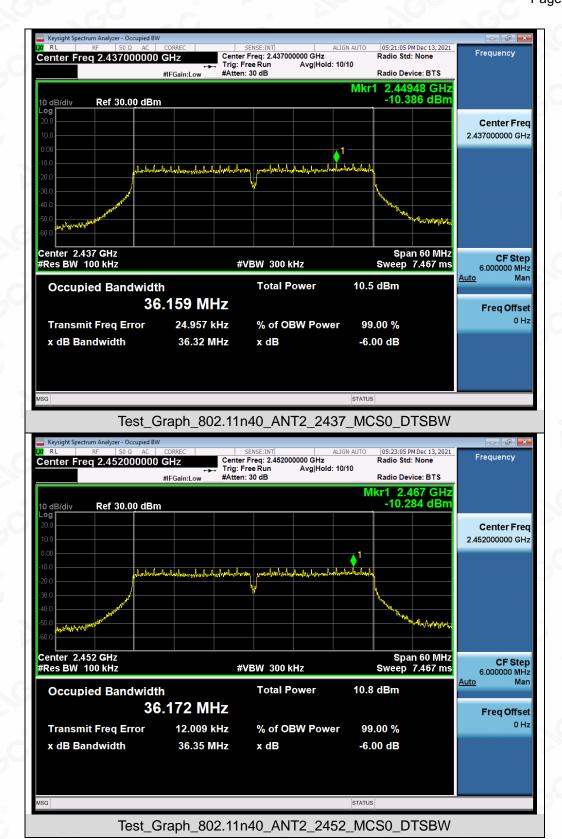


Test_Graph_802.11n20_ANT2_2437_MCS0_DTSBW











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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 USEDJN

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT						
Annelia alda I insida	Measurement Result					
Applicable Limits	Test Data	Criteria				
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit					
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS				
intentional radiator is operating, the radio frequency	Channel	a.C				
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 TOP Channel	PASS				

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