

FCC Test Report

Report No.: AGC10625220203FE05

FCC ID : 2APUZ-LB1

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Smart bulb

BRAND NAME : Gosund

MODEL NAME : LB1, LB1-A, LB1-B, LB1-C, WB2, WB5, LB5, WB4

APPLICANT: Shenzhen Cuco Smart Technology Co., Ltd

DATE OF ISSUE : Feb. 22, 2022

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	Feb. 22, 2022	Valid	Initial Release

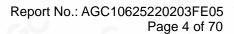
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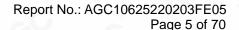
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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Cuco Smart Technology Co., Ltd
Address	2F, No.14, XinWuYuan Industrial Area, DiFu Road, GuShu, Xi'Xiang Town, Bao'An District, Shenzhen, 518000, China
manufacturer	Shenzhen Cuco Smart Technology Co., Ltd
Address	2F, No.14, XinWuYuan Industrial Area, DiFu Road, GuShu, Xi'Xiang Town, Bao'An District, Shenzhen, 518000, China
Factory	Shenzhen Cuco Smart Technology Co., Ltd
Address	Floor 2-4, Building 6, Fuzhong Industrial Zone, Huaide Community , Fuyong , Ban'an, Shenzhen, China
Product Designation	Smart bulb
Brand Name	Gosund
Test Model	LB1
Series Model	LB1-A, LB1-B, LB1-C, WB2, WB5, LB5, WB4
Declaration of Difference	All the series models are the same as the test model except for the model names and the color of appearance.
Date of test	Feb. 16, 2022 to Feb. 22, 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 radiated emission limits of FCC Rules Part 15.247.

Reviewed By

Calvin Liu
(Reviewer)

Approved By

Max Zhang

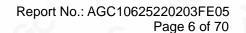
Max Zhang

Feb. 22, 2022

Feb. 22, 2022

(Authorized Officer)

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Smart bulb". 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:8.75dBm; IEEE 802.11g:5.90dBm;			
Output Fower (Average)	IEEE 802.11n(HT20):5.92dBm			
Output Power (Peak)	IEEE 802.11b:11.53dBm; IEEE 802.11g:13.51dBm;			
Output i owei (i eak)	EE 802.11b:8.75dBm; IEEE 802.11g:5.90dBm; EE 802.11n(HT20):5.92dBm EE 802.11b:11.53dBm; IEEE 802.11g:13.51dBm; EE 802.11n(HT20):13.61dBm 02.11b:DQPSK, DBPSK, CCK 02.11g/n: 64-QAM, 16-QAM, QPSK, BPSK 02.11b: 1/2/5.5/11Mbps 02.11g: 6/9/12/18/24/36/48/54Mbps 02.11n: up to 300Mbps 1.3 1.2 CB antenna (Comply with requirements of the FCC part 15.203)			
Modulation	802.11b:DQPSK, DBPSK, CCK			
Wiodulation	802.11g/n: 64-QAM, 16-QAM, QPSK, BPSK			
	802.11b: 1/2/5.5/11Mbps			
Data Rate	802.11g: 6/9/12/18/24/36/48/54Mbps			
	802.11n: up to 300Mbps			
Number of channels	11			
Hardware Version	V1.3			
Software Version	V1.2			
Antenna Designation	PCB antenna (Comply with requirements of the FCC part 15.203)			
Antenna Gain	2dBi			
Power Supply	AC120V, 60Hz, 15A			

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2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
100	C 1	2412 MHZ
0	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
-0	11	2462 MHZ

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

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2.3. IEEE 802.11N MODULATION SCHEME

MCS	MCS Index	Modulation	ion R	NBPSC	NCBPS		NDBPS		Data rate(Mbps) 800nsGl	
Шасх					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	<u>1</u>	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: 2APUZ-LB1** 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.

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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 = ±2 %		

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4. DESCRIPTION OF TEST MODES

TEST MODE DESCRIPTION				
Low channel transmitting (TX)				
Middle channel transmitting (TX)				
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)

The test channel for 20MHZ bandwidth system is channel 1, 6 and 11.

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.

🎎 AmebaZ2_mptool_1v3 Main PSD Efuse Reg TX Packet Setup Packet Counter TX Setting COM1 Select COM RX Setting тх ок RX OK Initialize Data Channel RX ERR Pwridx by Rate and Limit Data Rate Length TX Power Tracking Start Advanced TX Dest Set MAC Address Interval TX Power Wlan Mode View Window Preamble Testing Item Bandwidth Limit CH by BW

Software Setting

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure:

EUT

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Smart bulb	LB1	2APUZ-LB1	EUT

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	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. OUTPUT POWER

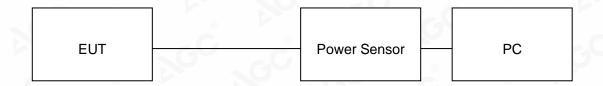
7.1. MEASUREMENT PROCEDURE

For average power test:

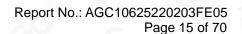
- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

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					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
a.C	2412	8.75	11.53	≤30	Pass
802.11b	2437	8.62	11.42	≤30	Pass
	2462	8.72	11.52	≤30	Pass
802.11g	2412	5.45	13.11	≤30	Pass
	2437	5.82	13.42	≤30	Pass
	2462	5.90	13.51	≤30	Pass
802.11n20	2412	5.53	13.15	≤30	Pass
	2437	5.73	13.43	≤30	Pass
	2462	5.92	13.61	≤30	Pass

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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

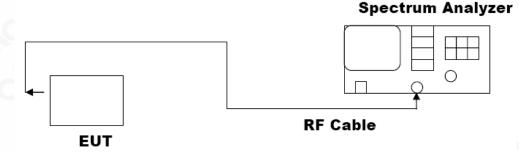
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

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 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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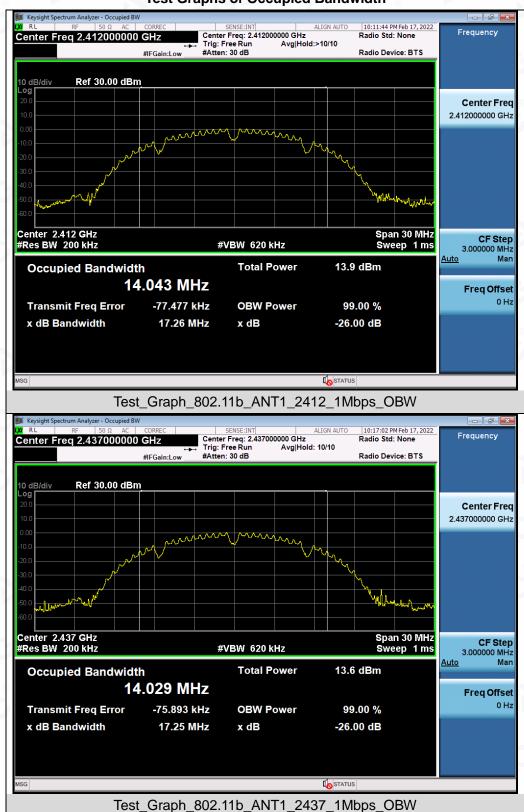
8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
C	2412	14.043	9.062	≥0.5	Pass
802.11b	2437	14.029	9.065	≥0.5	Pass
	2462	14.031	9.063	≥0.5	Pass
-6	2412	16.723	16.34	≥0.5	Pass
802.11g	2437	16.692	16.35	≥0.5	Pass
	2462	16.591	16.35	≥0.5	Pass
802.11n20	2412	17.891	17.57	≥0.5	Pass
	2437	17.781	17.55	≥0.5	Pass
	2462	17.788	17.56	≥0.5	Pass

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Test Graphs of Occupied Bandwidth



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Test_Graph_802.11g_ANT1_2412_6Mbps_OBW

STATUS

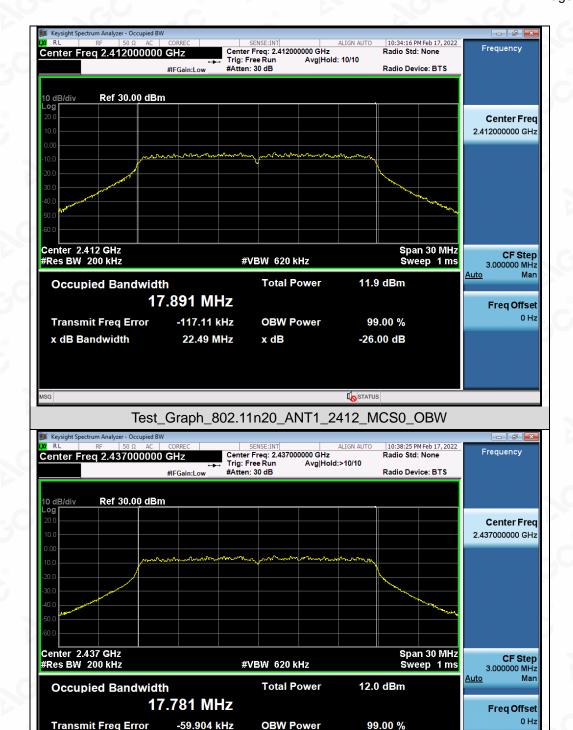




Center 2.462 GHz #Res BW 200 kHz Span 30 MHz Sweep 1 ms **CF Step** 3.000000 MHz #VBW 620 kHz <u>Auto</u> **Total Power** 12.3 dBm **Occupied Bandwidth** 16.591 MHz Freq Offset **Transmit Freq Error** -84.794 kHz **OBW Power** 99.00 % x dB Bandwidth 21.37 MHz x dB -26.00 dB STATUS Test_Graph_802.11g_ANT1_2462_6Mbps_OBW

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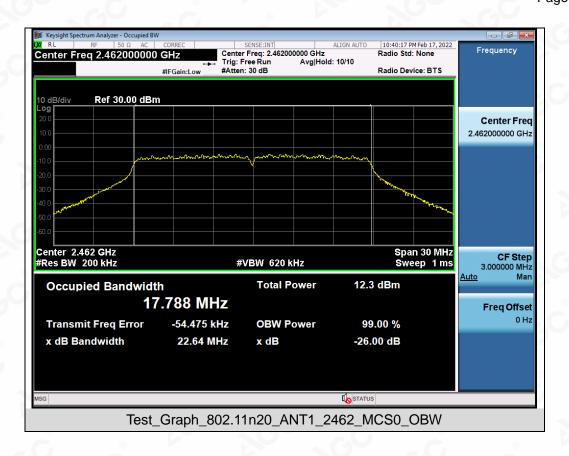
x dB

Test_Graph_802.11n20_ANT1_2437_MCS0_OBW

-26.00 dB

22.06 MHz

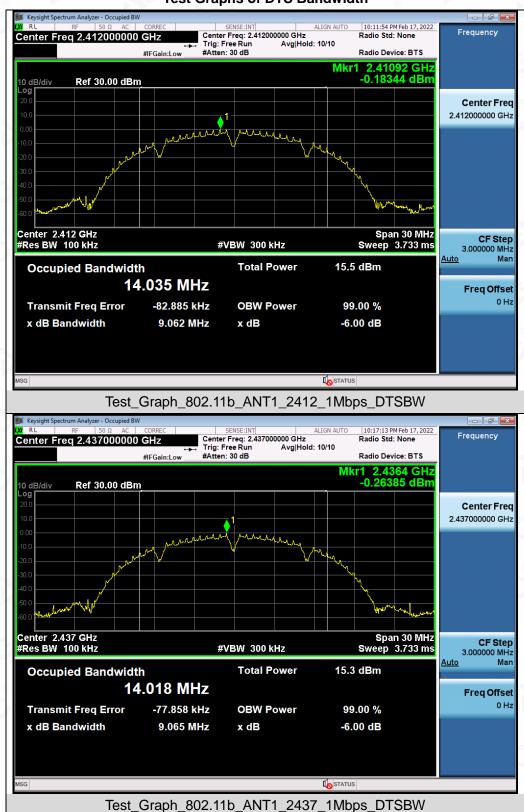




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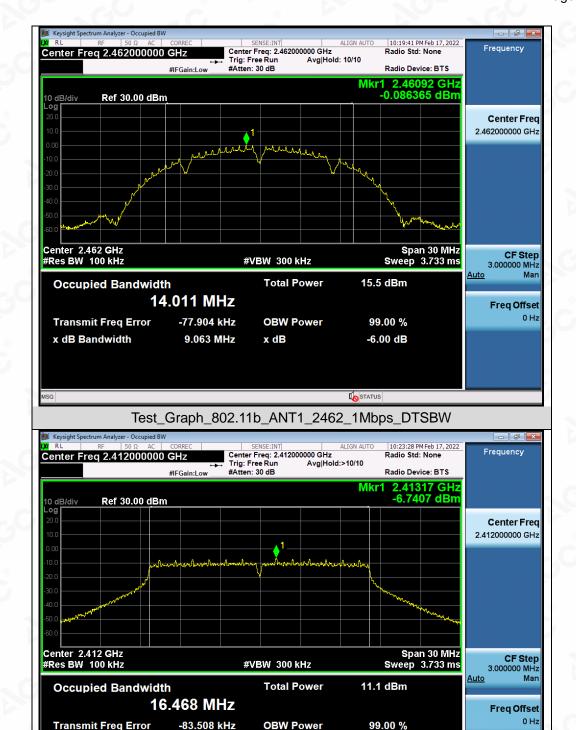


Test Graphs of DTS Bandwidth



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x dB

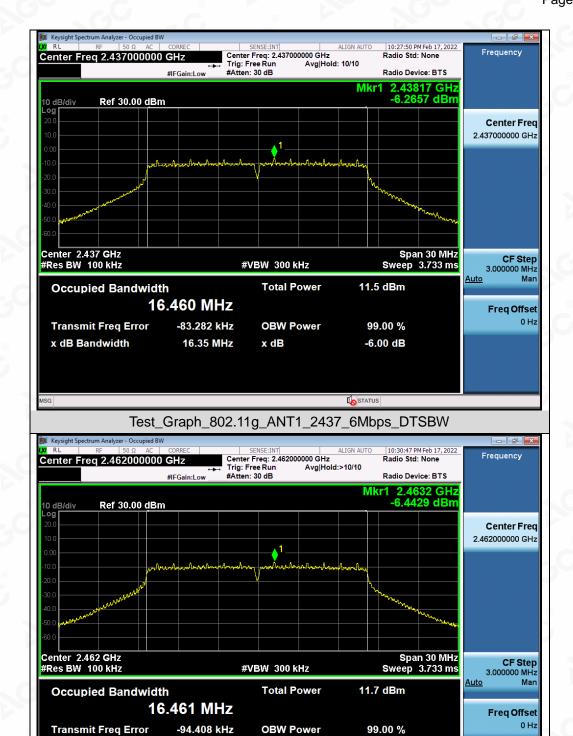
Test_Graph_802.11g_ANT1_2412_6Mbps_DTSBW

-6.00 dB

STATUS

16.34 MHz





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x dB

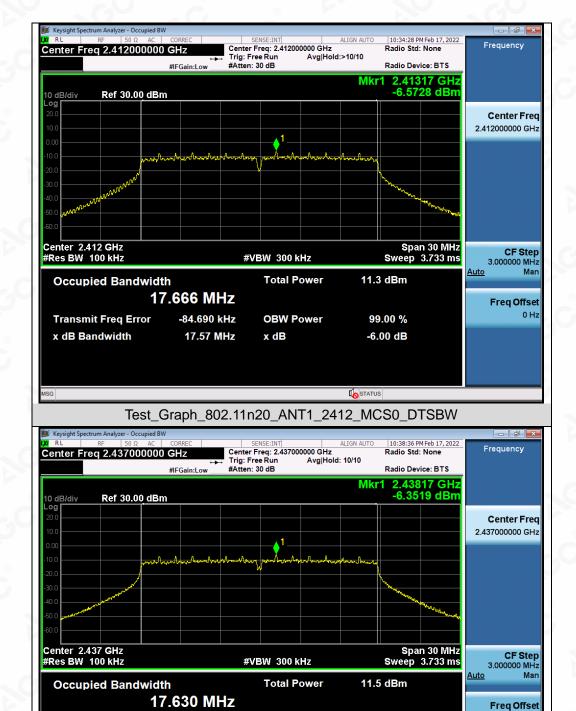
Test_Graph_802.11g_ANT1_2462_6Mbps_DTSBW

-6.00 dB

STATUS

16.35 MHz





Test_Graph_802.11n20_ANT1_2437_MCS0_DTSBW

OBW Power

x dB

99.00 %

-6.00 dB

STATUS

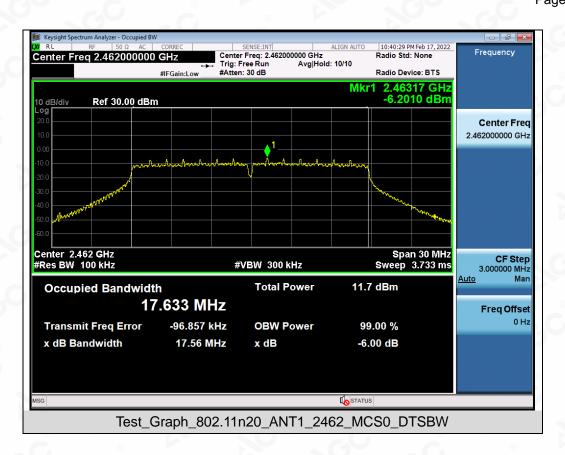
-71.680 kHz

17.55 MHz

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Transmit Freq Error





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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 de la limita	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				

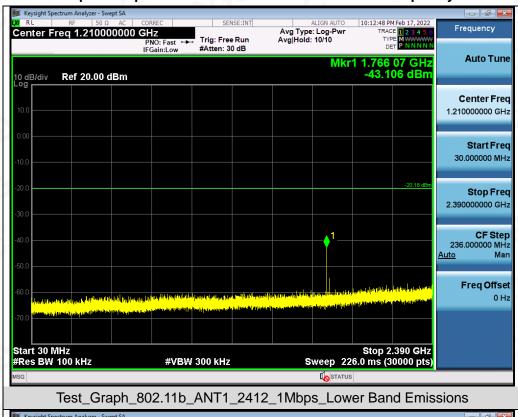
Note: The limits reference level is according to the test plot of -6dB bandwidth.

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g/Inspection The test results the test report.



Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



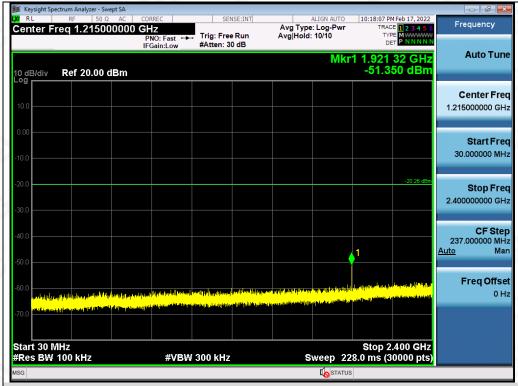


Test_Graph_802.11b_ANT1_2412_1Mbps_Higher Band Emissions

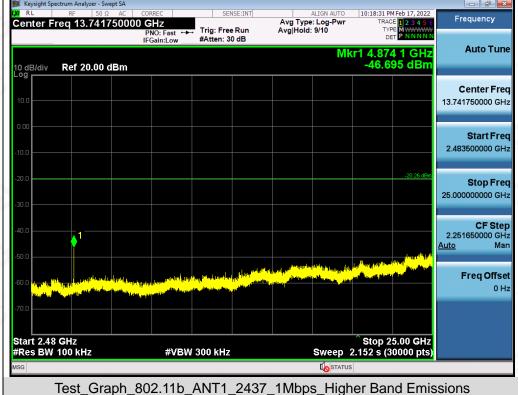
Compliance Best Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Any report having not been signed by authorized approver, or naving been altered without authorized approver, or naving been altered without the written authorization of AGC 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 Stample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

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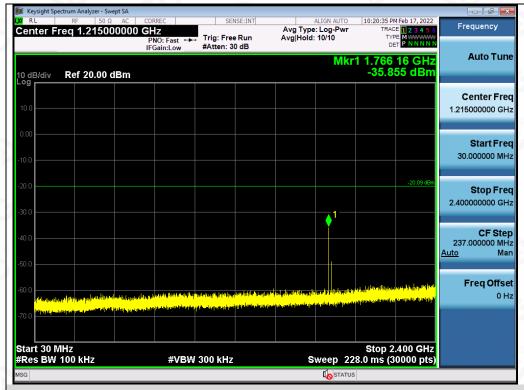
Test_Graph_802.11b_ANT1_2437_1Mbps_Lower Band Emissions



Compliance Bedicated Festing/Inspection Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Any report having not been signed by authorized approver, or having peen altered without authorization, or having not been signed by authorized approver, or having peen altered without authorization, or having not been signed by authorization of AGC. The test results start a signed by authorization of AGC and the test report is not permitted without the written authorization of AGC. The test results are the tested cample. Any objections to report issued by AGC should be submitted to AGC within 15day 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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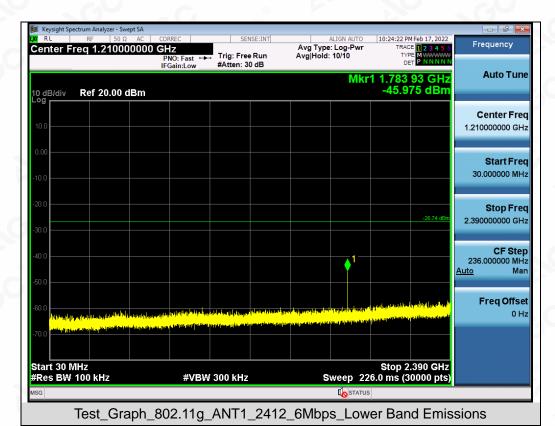


Test_Graph_802.11b_ANT1_2462_1Mbps_Lower Band Emissions



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Test_Graph_802.11g_ANT1_2412_6Mbps_Higher Band Emissions

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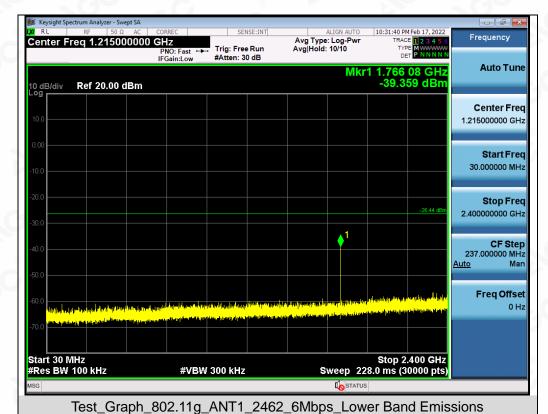


Test_Graph_802.11g_ANT1_2437_6Mbps_Lower Band Emissions



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Keysight Spectrum Analyzer - Swept SA

X RL RF 50 Ω AC CORREC SENSE:INT ALIGN AUTO 10:32:05 PM Feb 17, 2022

Center Freq 13.750000000 GHz

PNO: Fast → Trig: Free Run
IFGain:Low #Atten: 30 dB

Free

Avg Type: Log-Pwr Avg Hold: 10/10

TYPE MANNANN

Free

Avg Hold: 10/10

TYPE MANNANN

Free

Avg Hold: 10/10

TYPE MANNANN

Free

Avg Hold: 10/10



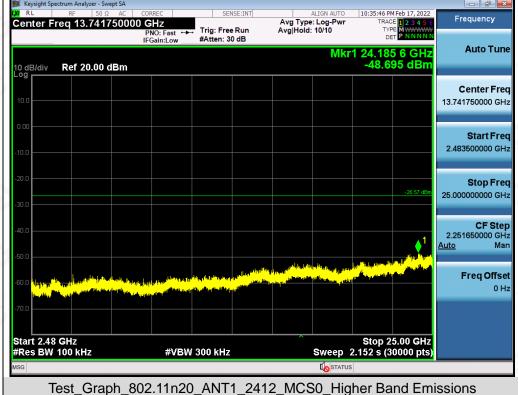
Test_Graph_802.11g_ANT1_2462_6Mbps_Higher Band Emissions

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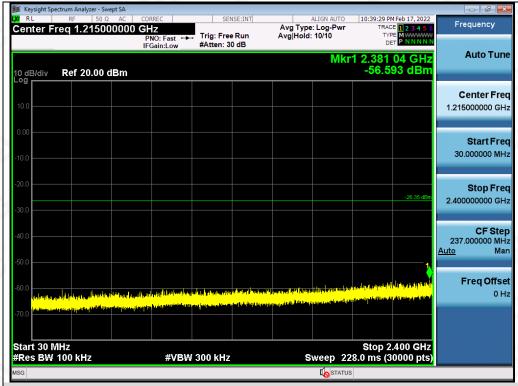


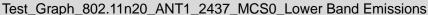


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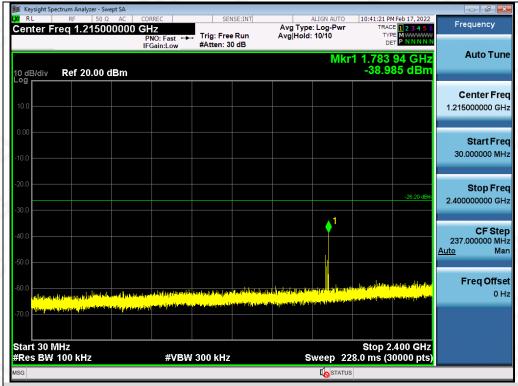


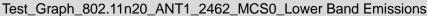




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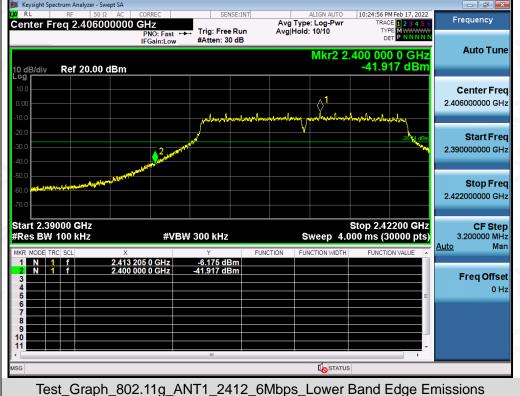


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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands





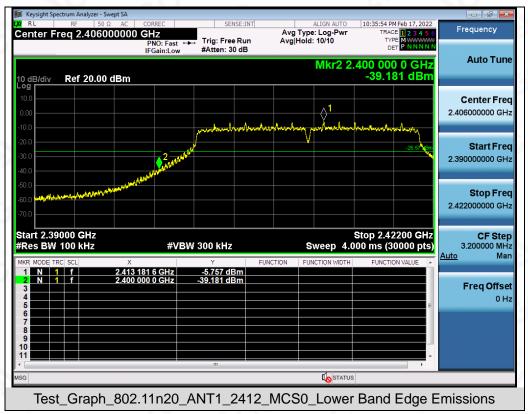
rest_eraph_coz.rrg_,tivi1_z+rz_owbps_cower band bage Emissions

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g/Inspection The test results

the test report.





Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.

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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 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 method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

	Test Data of Conducted Output Power Spectral Density						
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail		
	2412	-5.240	-13.479		Pass		
802.11b	2437	-4.832	-13.071	-8	Pass		
-C	2462	-4.934	-13.173		Pass		
9 . 60	2412	-11.169	-19.408		Pass		
802.11g	2437	-11.177	-19.416		Pass		
6	2462	-10.220	-18.459		Pass		
60	2412	-12.472	-20.711	-\$8	Pass		
802.11n20	2437	-12.451	-20.69		Pass		
@	2462	-10.953	-19.192		Pass		

Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) - 10*log(20/3).

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Test Graphs of Conducted Output Power Spectral Density

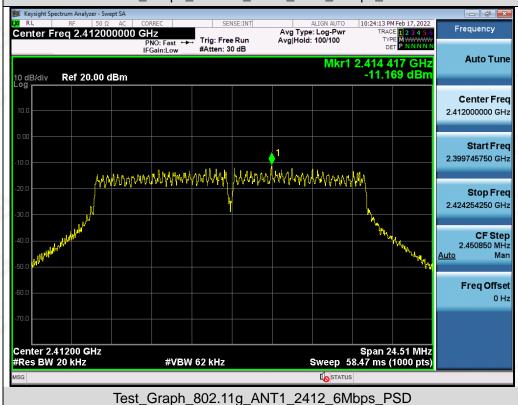


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Test_Graph_802.11b_ANT1_2437_1Mbps_PSD

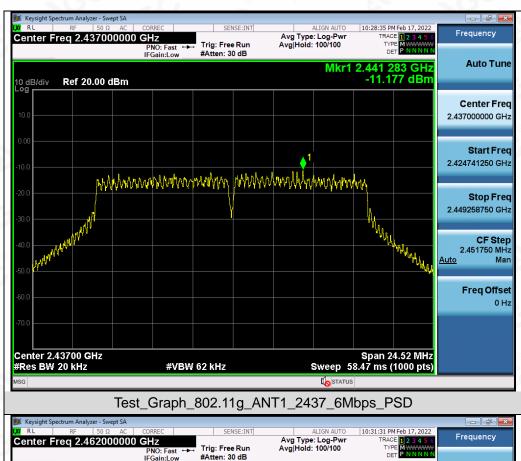


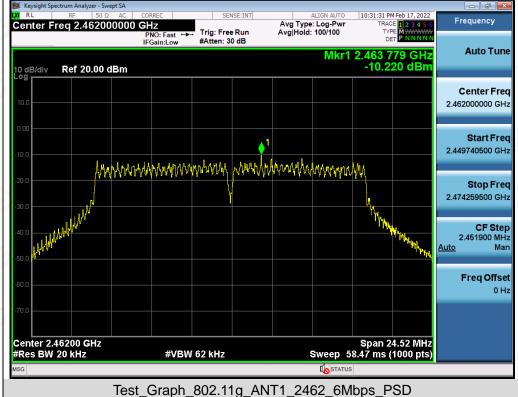




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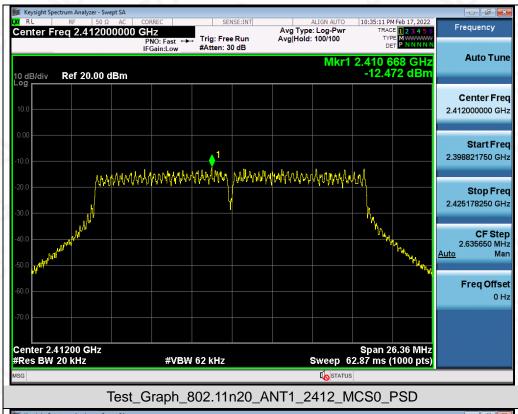


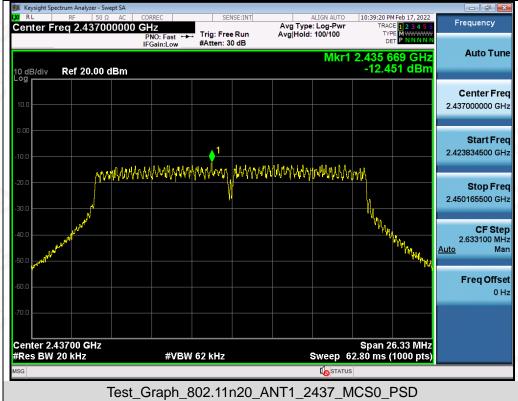




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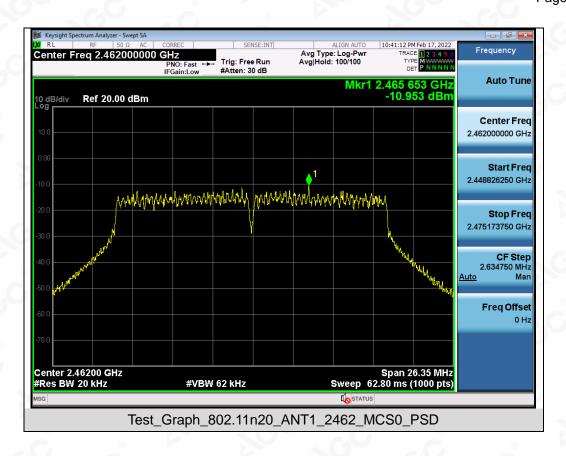




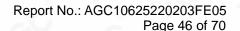


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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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