

FCC Test Report

Report No.: AGC06815210601FE03

FCC ID	: AUSCR3111A
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Cadence Bluetooth Speaker
BRAND NAME	: CROSLEY
MODEL NAME	 CR3111A-BK, CR3111XX-XXXX,("XX-XXXX" can be replaced by letter from "A" to "Z" or blank, number from "0" to "9" or blank), EX-535A, EX-XXXX("XXXX" can be replaced by letter from "A" to "Z" or blank, number from "0" to "9" or blank.)
APPLICANT	: Modern Marketing Concepts, Inc.
DATE OF ISSUE	: Jun. 25, 2021
STANDARD(S)	: FCC Part 15.247
REPORT VERSION	: V1.0 Compliance

Attestation of Global Amange (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	· /	Jun. 25, 2021	Valid	Initial Release

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TABLE OF CONTENTS

	1. VERIFICATION OF CONFORMITY	
	2. GENERAL INFORMATION	6
	2.1. PRODUCT DESCRIPTION	6
	2.2. TABLE OF CARRIER FREQUENCYS	6
	2.3. RECEIVER INPUT BANDWIDTH	7
	2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE	7
	2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR	
	2.6. RELATED SUBMITTAL(S) / GRANT (S)	8
	2.7. TEST METHODOLOGY	8
	2.8. SPECIAL ACCESSORIES	8
	2.9. EQUIPMENT MODIFICATIONS	8
	2.10. ANTENNA REQUIREMENT	
	3. MEASUREMENT UNCERTAINTY	
	4. DESCRIPTION OF TEST MODES	
	5. SYSTEM TEST CONFIGURATION	11
	5.1. CONFIGURATION OF EUT SYSTEM	
	5.2. EQUIPMENT USED IN TESTED SYSTEM	
	5.3. SUMMARY OF TEST RESULTS	
	6. TEST FACILITY	
	7. PEAK OUTPUT POWER	13
	7.1. MEASUREMENT PROCEDURE	13
	7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	13
	7.3. LIMITS AND MEASUREMENT RESULT	14
	8. 20DB BANDWIDTH	
	8.1. MEASUREMENT PROCEDURE	19
	8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	19
	8.3. LIMITS AND MEASUREMENT RESULTS	20
	9. CONDUCTED SPURIOUS EMISSION	25
	9.1. MEASUREMENT PROCEDURE	
	9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
	9.3. MEASUREMENT EQUIPMENT USED	
	9.4. LIMITS AND MEASUREMENT RESULT.	25
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Report No.: AGC06815210601FE03 Page 4 of 77

10. RADIATED EMISSION	
10.1. MEASUREMENT PROCEDURE	
10.2. TEST SETUP	
10.3. LIMITS AND MEASUREMENT RESULT	
10.4. TEST RESULT	
11. NUMBER OF HOPPING FREQUENCY	59
11.1. MEASUREMENT PROCEDURE	
11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
11.3. MEASUREMENT EQUIPMENT USED	
11.4. LIMITS AND MEASUREMENT RESULT	
12. TIME OF OCCUPANCY (DWELL TIME)	60
12.1. MEASUREMENT PROCEDURE	
12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
12.3. MEASUREMENT EQUIPMENT USED	
12.4. LIMITS AND MEASUREMENT RESULT	60
13. FREQUENCY SEPARATION	
13.1. MEASUREMENT PROCEDURE	
13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	64
13.3. MEASUREMENT EQUIPMENT USED	64
13.4. LIMITS AND MEASUREMENT RESULT	64
14. LINE CONDUCTED EMISSION TEST	
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST	
14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	
14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	66
14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	
14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	
APPENDIX B: PHOTOGRAPHS OF EUT	

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1. VERIFICATION OF CONFORMITY

• • •		
Applicant	Modern Marketing Concepts, Inc.	
Address	1220 E Oak, St. Louisville, Kentucky, United States 40204	
Manufacturer	ZHUHAI YALI TECHNOLOGY CO., LTD	
Address	4th Floor, No.119, Huawei Road, Qianshan Industrial Park, ZhuHai, GuangDong	
Factory	ZHUHAI YALI TECHNOLOGY CO., LTD	
Address	4th Floor, No.119, Huawei Road, Qianshan Industrial Park, ZhuHai, GuangDong	
Product Designation	Cadence Bluetooth Speaker	
Brand Name	CROSLEY	
Test Model	CR3111A-BK	
Series Model	CR3111XX-XXXX,("XX-XXXX" can be replaced by letter from "A" to "Z" or blank, number from "0" to "9" or blank), EX-535A, EX-XXXX("XXXX" can be replaced by letter from "A" to "Z" or blank, number from "0" to "9" or blank.)	
Declaration of Difference	Color difference, model difference	
Date of test	Jun. 09, 2021 to Jun. 25, 2021	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-BR/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 PART 15.247.

kang che Prepared By Kelly Cheng Jun. 25, 2021 (Project Engineer) Max Zhan **Reviewed By** Max Zhang Jun. 25, 2021 (Reviewer) Lorrost le Approved By Forrest Lei Jun. 25, 2021 (Authorized Officer) Compliance Dedicated Fes Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by t /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 he test results apthorization of AGE presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15d 🖗 Sf the test report.

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Cadence Bluetooth Speaker". It is designed by way of utilizing the GFSK, Pi/4 DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480 GHz
RF Output Power	4.088dBm (Max)
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	79
Hardware Version	YL-EX535-AB5303B-MAIN-V0.0
Software Version	NPJ-EX535_03B_20210518_V06_C31_65F94ADF
Antenna Designation	Board Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	1.2dBi
Power Supply	DC 18V by adapter

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
8	0	2402 MHz
	• 1	2403 MHz
	38	2440 MHz
2402~2480MHz	39	2441 MHz
	40	2442 MHz
.C		
200 200	77	2479 MHz
	78	2480 MHz

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz, in every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally, the type of connection (e.g. single of multi slot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also, the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a hopping sequence in data mode: 40, 21, 44, 23, 04, 15, 66, 56, 19, 78, 07, 28, 69, 55, 36, 45, 05, 13, 43, 74, 57, 35, 67, 76, 02, 34, 54, 63, 42, 11, 30, 06, 64, 25, 75, 48, 17, 33, 58, 01, 29, 14, 51, 72, 03, 31, 50, 61, 77, 18, 10, 47, 12, 68, 08, 49, 20, 00, 73, 09, 16, 60, 71, 41, 24, 53, 38, 26, 46, 37, 65, 32, 70, 52, 27, 59, 22, 62, 39

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

1. LAP/UAP of the master of the connection.

2. Internal master clock.

The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24MSB's of the 48BD_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For behavior action with other units only offset is used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bits counter. For the deriving of the hopping sequence the entire. LAP (24 bits),4LSB's(4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended.

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The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer (and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always differ from the first one.

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

This submittal(s) (test report) is intended for **FCC ID: AUSCR3111A** filing to comply with the FCC PART 15.247 requirements.

2.7. 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.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.10. 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 \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 GFSK	
2	Middle channel GFSK	
3	High channel GFSK	
4	Low channel π/4-DQPSK	
5	Middle channel π/4-DQPSK	
6	High channel π/4-DQPSK	
7	Low channel 8DPSK	
8	Middle channel 8DPSK	
9	High channel 8DPSK	
10	Hopping mode GFSK	
11	Hopping mode π/4-DQPSK	
12	Hopping mode 8DPSK	

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

Software Setting

PROPERTY PAGE		BALLERCO		CORMAN-
BT_Tool				×
COMx Baudrate		and a second state of the		
Classic BLE				
Test Mode				
FCC Test @	Remote BT	address		
CBT Test	555555555	555	Stop	
RF Control				
RF Mode	TX TEST -	Packet Type	DH5	-)
Hopping	ON -	TX Frequency	2480	
nopping		RX Frequency		en e
TX Power	7	KX Frequency	2902	
Scenario	PRBS Pattern			
LOG: BR/EDR : LOG: Test end				
LOG: BR/EDR :	est			
LOG: Test en LOG: BR/EDR				
LOG: Test en				
LOG: BR/EDR	lest			-
COM3 is open	15	600000ps		1

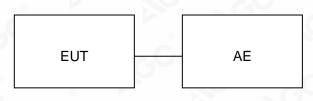
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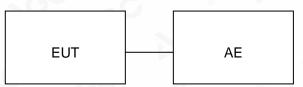
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Cadence Bluetooth Speaker	CR3111A-BK	AUSCR3111A	EUT
2	ADAPTER	MD42A-1800200-U	Input:100-240V~50/60Hz 0.8A Output: 18V, 2.0A	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted 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	Equipment Manufacturer		S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15,2021	May 14,2022
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02, 2021
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	
2.4GHz Filter	EM Electronics	2400-2500MHz	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	Sep. 21, 2019	Sep. 20, 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, 2023	
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022	
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023	
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A	

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

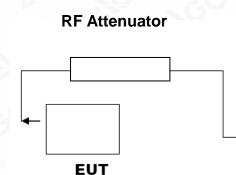
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

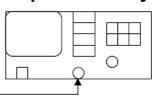
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

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

PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable

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7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power								
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail				
- 6	2402	1.774	\$21	Pass				
GFSK	2441	0.350	\$21	Pass				
	2480	-0.815	\$21	Pass				
0	2402	3.862	\$21	Pass				
π /4-DQPSK	2441	2.472	\$21	Pass				
	2480	1.213	\$21	Pass				
9	2402	4.088	\$21	Pass				
8DPSK	2441	2.752	\$21	Pass				
NO	2480	1.571	\$21	Pass				

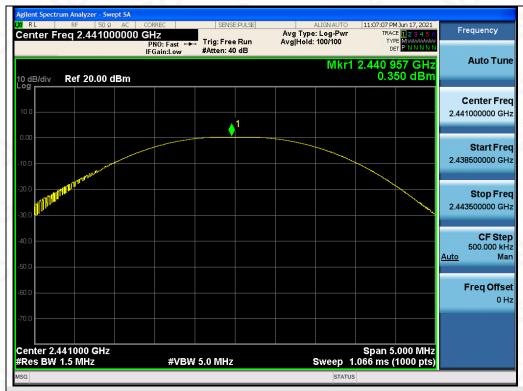
Test Graphs of Conducted Output Power



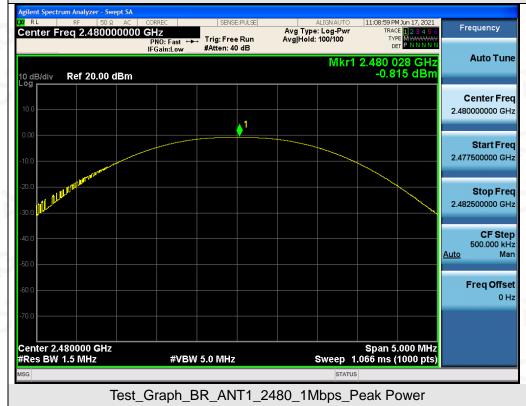
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Report No.: AGC06815210601FE03 Page 15 of 77





Test_Graph_BR_ANT1_2441_1Mbps_Peak Power



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Report No.: AGC06815210601FE03 Page 16 of 77





Test_Graph_EDR_ANT1_2402_2Mbps_Peak Power



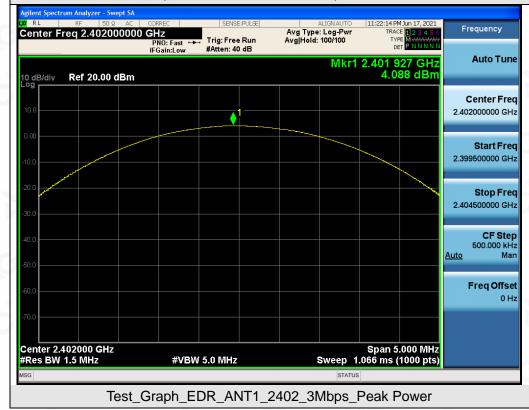
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Report No.: AGC06815210601FE03 Page 17 of 77





Test_Graph_EDR_ANT1_2480_2Mbps_Peak Power



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Report No.: AGC06815210601FE03 Page 18 of 77





Test_Graph_EDR_ANT1_2441_3Mbps_Peak Power



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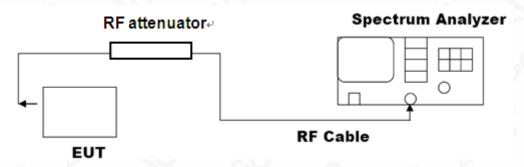


8. 20DB BANDWIDTH

8.1. 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 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.

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



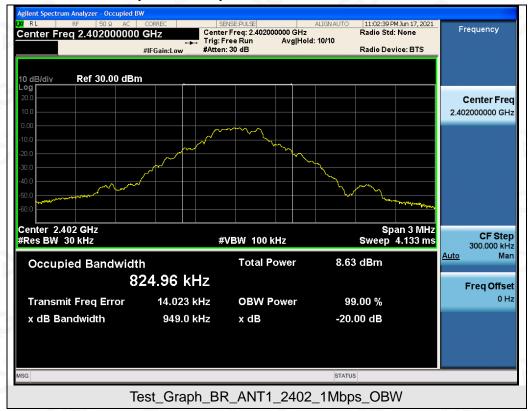
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Test Data of Occupied Bandwidth and -20dB Bandwidth									
Test Mode	Test Channel 99% Occupied (MHz) Bandwidth (MHz		-20dB Bandwidth (MHz)	Limits	Pass or Fail				
-0	2402	0.825	0.949	N/A	Pass				
GFSK	2441	0.824	0.950	N/A	Pass				
	2480	0.824	0.950	N/A	Pass				
6	2402	1.168	1.321	N/A	Pass				
π/4-DQPSK	2441	1.167	1.320	N/A	Pass				
	2480	1.168	1.320	N/A	Pass				
6	2402	1.165	1.294	N/A	Pass				
8DPSK	2441	1.165	1.294	N/A	Pass				
	2480	1.165	1.294	N/A	Pass				

8.3. LIMITS AND MEASUREMENT RESULTS

Test Graphs of Occupied Bandwidth and -20 Bandwidth



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Report No.: AGC06815210601FE03 Page 21 of 77



Test_Graph_BR_ANT1_2441_1Mbps_OBW



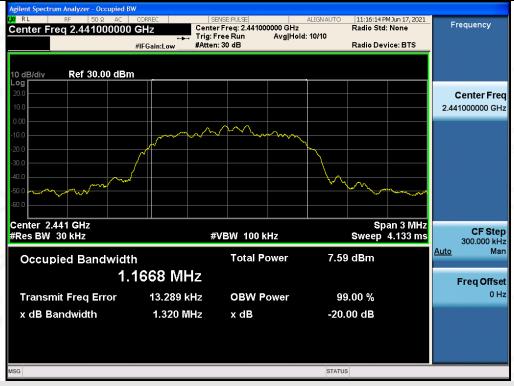
Test_Graph_BR_ANT1_2480_1Mbps_OBW



Report No.: AGC06815210601FE03 Page 22 of 77



Test_Graph_EDR_ANT1_2402_2Mbps_OBW



Test_Graph_EDR_ANT1_2441_2Mbps_OBW



Report No.: AGC06815210601FE03 Page 23 of 77



Test_Graph_EDR_ANT1_2480_2Mbps_OBW



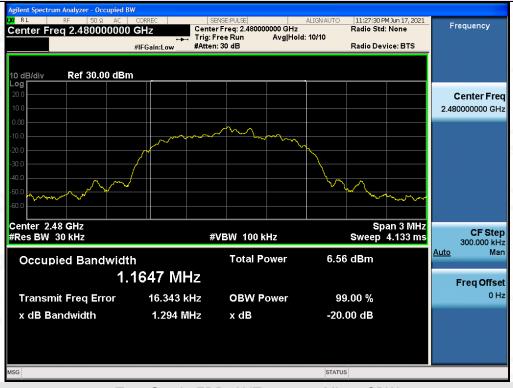
Test_Graph_EDR_ANT1_2402_3Mbps_OBW



Report No.: AGC06815210601FE03 Page 24 of 77



Test_Graph_EDR_ANT1_2441_3Mbps_OBW



Test_Graph_EDR_ANT1_2480_3Mbps_OBW



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 the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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								
Annliachta Limite	Measurement Result							
Applicable Limits	Test Data	Criteria						
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS						
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						

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Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

Test_Graph_BR_ANT1_2402_1Mbps_Reference Level

ଷ RL RF 50 ସ Center Freq 1.2100	2 AC CORREC 00000 GHz PNO: Fast ↔ IEGain:Low	Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	11:03:20 PM Jun 17, 2021 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
10 dB/div Ref 20.00			Mki	1 2.376 15 GHz -43.458 dBm	Auto Tu
10.0					Center Fr 1.210000000 G
10.0					Start Fr 30.000000 M
30.0					Stop Fr 2.390000000 G
40.0				1	CF St 236.000000 M <u>Auto</u> M
50.0 4. a. t	A star shart with a contract of the deal	an ya Manaka ya King Tana Mana	la egy novy teneral de teneral service estate	n (sili yet Pitras seri kuri tili integra sel av integra i 1. gaga statisti som Dahata seri kasaki	Freq Offs 0
70.0 Start 30 MHz	<u>t á trife bút na reinn a interi a</u> lísa dinni aftar an a dathail	al sella pare pare d'unanc		Stop 2.390 GHz	
Res BW 100 kHz	#VB\	N 300 kHz	Sweep 22	26.0 ms (30000 pts)	

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Report No.: AGC06815210601FE03 Page 27 of 77



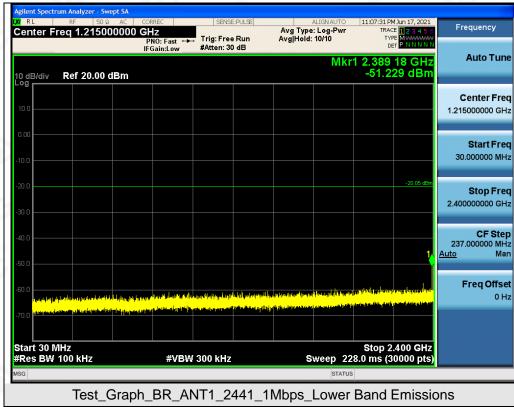




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Report No.: AGC06815210601FE03 Page 28 of 77





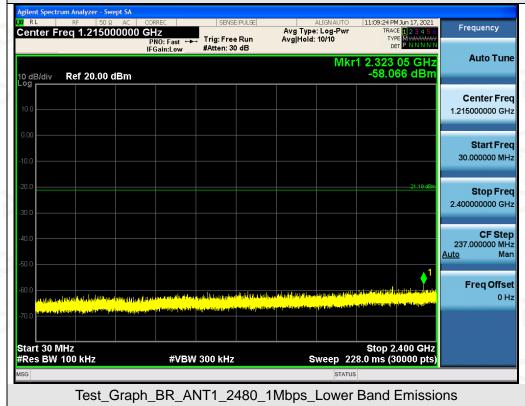
ım Analyzer - Swept SA RL Frequency Avg Type: Log-Pw Avg|Hold: 10/10 Center Freq 13.741750000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Lov Auto Tune Mkr1 4.881 6 GHz -39.483 dBm I0 dB/div Ref 20.00 dBm Center Frea 13.741750000 GHz Start Freq 2.483500000 GHz Stop Freq 25.00000000 GHz 1 CF Step 2.251650000 GHz Mar Auto **Freq Offset** 0 Hz Start 2.48 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts) #VBW 300 kHz Test_Graph_BR_ANT1_2441_1Mbps_Higher Band Emissions

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Test_Graph_BR_ANT1_2480_1Mbps_Reference Level



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Report No.: AGC06815210601FE03 Page 30 of 77







Test_Graph_BR_ANT1_2480_1Mbps_Higher Band Emissions

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Report No.: AGC06815210601FE03 Page 31 of 77





ım Analyzer - Swept SA RL lun 17, 2021 Frequency Avg Type: Log-Pw Avg|Hold: 10/10 Center Freq 13.741750000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Lov Auto Tune Mkr1 4.804 3 GHz -36.898 dBm I0 dB/div Ref 20.00 dBm Center Frea 13.741750000 GHz Start Freq 2.483500000 GHz Stop Freq 25.00000000 GHz CF Step 2.251650000 GHz Mar Auto **Freq Offset** 0 Hz Start 2.48 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts) #VBW 300 kHz Test_Graph_EDR_ANT1_2402_2Mbps_Higher Band Emissions

Test_Graph_EDR_ANT1_2402_2Mbps_Lower Band Emissions

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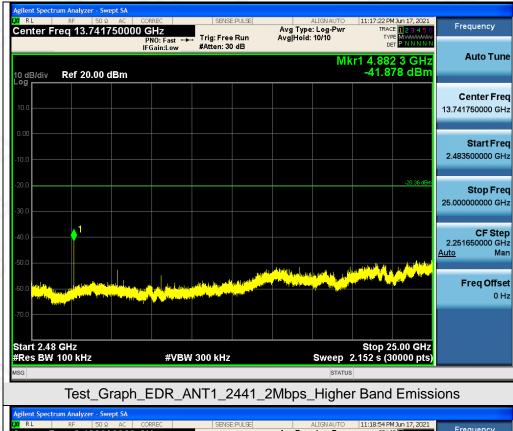
Test_Graph_EDR_ANT1_2441_2Mbps_Reference Level

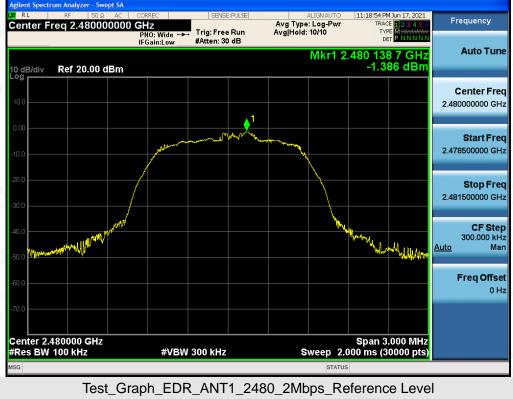
	F 50 Ω AC 1.215000000	CORREC CORREC CORREC PNO: Fast ↔ IFGain:Low	Trig: Free #Atten: 30	Run	Avg Type Avg Hold:		TRAC TYP	1 Jun 17, 2021 E 1 2 3 4 5 6 E M UNIMANN E N N N N N	Frequency
10 dB/div Re	ef 20.00 dBm					Mkr		10 GHz 53 dBm	Auto Tur
10.0									Center Fr 1.215000000 GF
.00									Start Fr 30.000000 Mi
30.0								-20.36 dBm	Stop Fre 2.400000000 GF
40.0								1.	CF Ste 237.000000 Mi <u>Auto</u> M
60.0 <mark>matikalentete</mark>	en el atalastationet d'anna (paras		kan politika politika katego kateg		utha an she gti <mark>bertanga.</mark> 	ar produjen i stati da sunda 		Aley Landson (1943) Aley Landson (1944) Alexandron (1944)	Freq Offs 0 F
70.0 Ponts (troduille artic	a na an an Anna an Anna Anna Anna Anna	et al sensibilitation de la faction de la							
Start 30 MHz #Res BW 100	kHz	#VBV	V 300 kHz		S	weep 22	8.0 ms (3	.400 GHz 0000 pts)	

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Report No.: AGC06815210601FE03 Page 33 of 77







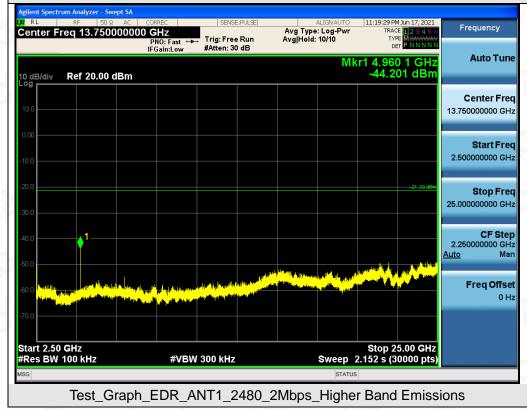
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Report No.: AGC06815210601FE03 Page 34 of 77



	Analyzer - Swept S					
Center Fre	RF 50 Ω A q 1.2150000		SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr	11:19:02 PM Jun 17, 2021 TRACE 123456	Frequency
	Ref 20.00 dBr	PNO: Fast ↔ IFGain:Low	⊥ Trig: Free Run #Atten: 30 dB	Avg Hold: 10/10	1 2.376 22 GHz -58.166 dBm	Auto Tune
						Center Freq 1.215000000 GHz
-10.0						Start Freq 30.000000 MHz
-20.0					-21.30 dBm	Stop Freq 2.400000000 GHz
-40.0						CF Step 237.000000 MHz <u>Auto</u> Man
-60.0	rastegrikrepter ¹ orrestatorik Internationalistat		l de construir de la constant d'Annais en parteres Senais de activites que a territ de la constant cont	Aperate for the stand benefit for the product of the former of the standard sector of	n yn ymer dd yn mal wlad ym yw er anwi den fer yw da yw Yn yn ymer y dd ym arwer arwyd yn yw ar arwyn ar	Freq Offset 0 Hz
-70.0 Start 30 MH #Res BW 10	 z		(300 kHz		Stop 2.400 GHz 8.0 ms (30000 pts)	
	20 MIZ		- 347 MH2	SWEED ZZ		

Test_Graph_EDR_ANT1_2480_2Mbps_Lower Band Emissions



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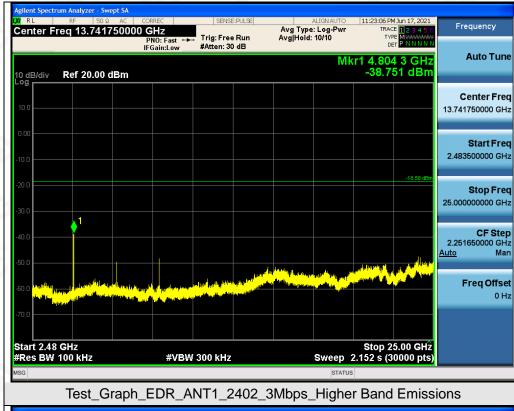
ım Analyzer - Swept SA RL Frequency Avg Type: Log-Pw Avg|Hold: 10/10 Center Freq 1.210000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Lov Auto Tune Mkr1 2.376 15 GHz -44.607 dBm I0 dB/div Ref 20.00 dBm Center Frea 1.210000000 GHz Start Freq 30.000000 MHz Stop Freq 2.39000000 GHz CF Step 236.000000 MHz Auto Mar **Freq Offset** 0 Hz Start 30 MHz #Res BW 100 kHz Stop 2.390 GHz Sweep 226.0 ms (30000 pts) #VBW 300 kHz Test_Graph_EDR_ANT1_2402_3Mbps_Lower Band Emissions

Test_Graph_EDR_ANT1_2402_3Mbps_Reference Level

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Report No.: AGC06815210601FE03 Page 36 of 77







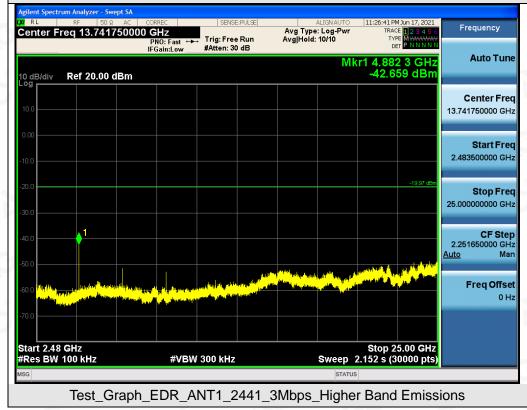
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Report No.: AGC06815210601FE03 Page 37 of 77



	rum Analyzer - Swe									
Center F	RF 50 Ω req 1.21500		DRREC		E:PULSE	Avg Type	ALIGNAUTO	TRAC	4 Jun 17, 2021 E <mark>1 2 3 4 5 6</mark>	Frequency
10 dB/div	Ref 20.00 c	IF	PNO: Fast 🔸 Gain:Low	Trig: Free #Atten: 30		Avg Hold:		⁻¹ 2.389	18 GHz 70 dBm	Auto Tune
10.0										Center Freq 1.215000000 GHz
-10.0										Start Freq 30.000000 MHz
-20.0									-19.97 dBm	Stop Freq 2.400000000 GHz
-40.0									1	CF Step 237.000000 MHz <u>Auto</u> Man
-60.0	<mark>listen eta angla basten sedera situ:</mark> Angla seten ing angla seten seten situ seten	data da na batta a	g (ou phi continui de) Phi con 19 (ou phi continui de) Phi con	and the sector of the sector o	na podna dzedna viska dzena	Ale Halman Densha Ale Ing tao pagana kata sa ka	Marine Carlos and Aller Marine Carlos and Aller	Herene tergente per la s		Freq Offset 0 Hz
-70.0 Start 30 F #Res BW	ЛНz			300 kHz				Stop 2	.400 GHz 0000 pts)	
MSG	TVV KHZ		# V D VV	-300 KHZ		3	STATUS		oooo pisj	

Test_Graph_EDR_ANT1_2441_3Mbps_Lower Band Emissions



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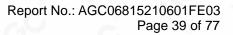




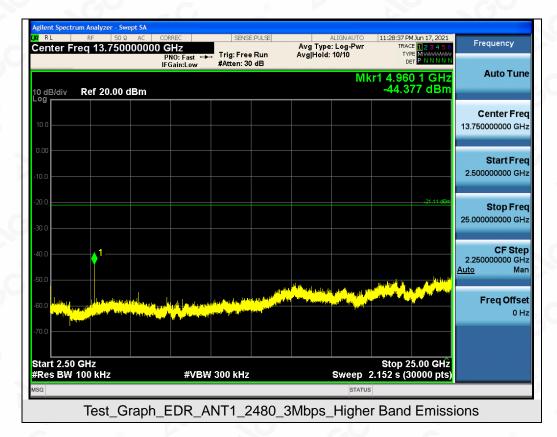
Agilent Spectrum Ar X RL RI Center Freq	= 50 Ω AC		SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10		Frequency
10 dB/div Re Log	f 20.00 dBm			M	kr1 2.259 61 GHz -59.004 dBm	Auto Tune
10.0						Center Freq 1.215000000 GHz
-10.0						Start Free 30.000000 MHz
-20.0					21.11 dBm	Stop Fred 2.400000000 GHz
-40.0						CF Step 237.000000 MH; <u>Auto</u> Mar
-60.0 279742114699944	y by a ten power data area a data po y fan na finana a posicia atender of posicia a posicia a	all (₁₉₉₇) i manifi de sta pol de monsegan da marpita nel second	ha ali ing ting tang dan saka saka saka saka saka saka saka sa	ta ga ang ang ang ang ang ang ang ang ang	T Para a summer of the parameter of the second sector of the state of the sector of th	Freq Offset 0 Hz
Start 30 MHz #Res BW 100	kHz	#VB	W 300 kHz	Sweep	Stop 2.400 GHz 228.0 ms (30000 pts)	

Test_Graph_EDR_ANT1_2480_3Mbps_Reference Level

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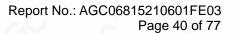


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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Frequency

Mkr2 2.400 000 0 GHz -59.107 dBm

Auto Tune

Center Freq 2 398500000 GHz

Start Fred 2.39000000 GHz

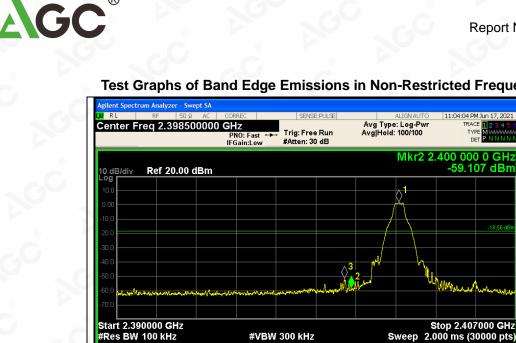
Stop Freq 2.407000000 GHz

CF Step 1.700000 MHz

Freq Offset 0 Hz

Mar

Auto

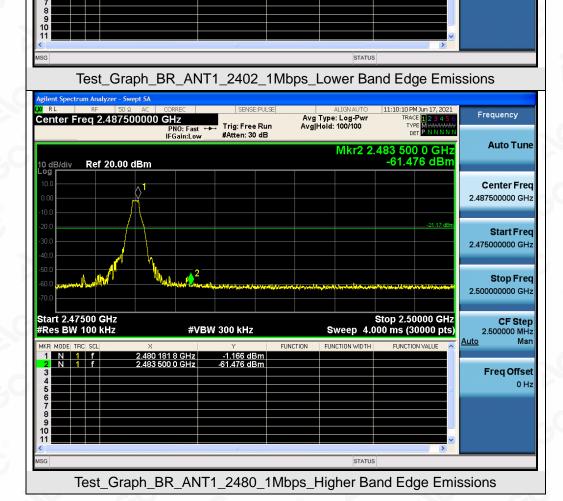


#Res BW 100 kHz

#VBW 300 kHz

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

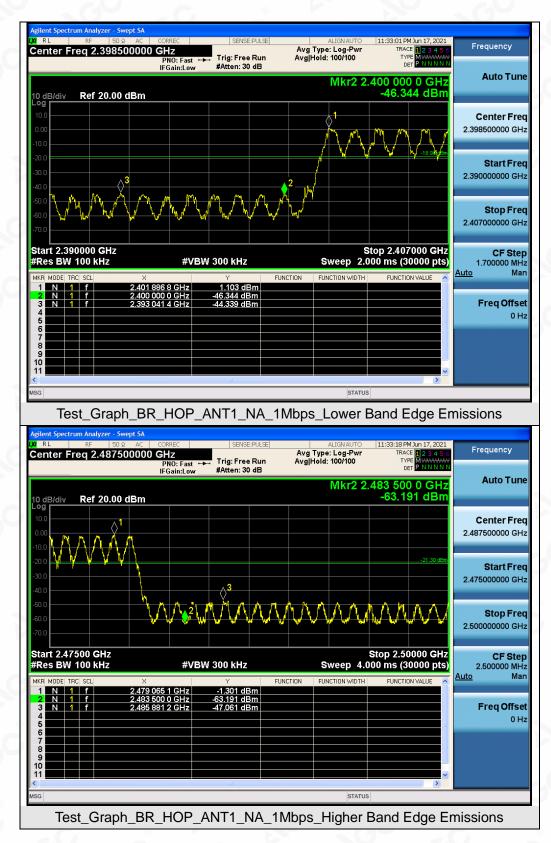
FUNCTION



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Report No.: AGC06815210601FE03 Page 41 of 77





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