

RF Test Report

For

Applicant Name:

SHENZHEN RANVOO DIGITAL TECHNOLOGY CO., LTD.

Address:

Address:

EUT Name: Brand Name: Model Number: RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China Wearable Smart Air Conditioner RANVOO FG7

Issued By

Company Name:

BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: Test Standards: BTF-SZ230216R-004 47 CFR Part 15.247

Test Conclusion: FCC ID: Test Date: Date of Issue: Pass 2AN4X-FG7 2023-03-18 to 2023-03-20 2023-03-20

Prepared By:

Date:

Approved By:

Date:

Chris ciu
Chris Liu Project Engineer Co 2023-03-20 Ho LAB
Ryan.CJ / EMC Manager 2023-03-20

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Revision History			
Version	Issue Date	Revisions Content	
R_V0	2023-03-20	Original	

Note: Once the revision has been made, then previous versions reports are invalid.

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Table of Contents

1 INTRODUCTION	5
1.1 Identification of Testing Laboratory	
1.2 Identification of Testing Laboratory	
1.3 Identification of the Responsible Testing Location	
1.4 Announcement	5
2 PRODUCT INFORMATION	6
2.1 Application Information	
2.2 Manufacturer Information	6
2.3 Factory Information	
2.4 General Description of Equipment under Test (EUT)	
2.5 Technical Information	
3 SUMMARY OF TEST RESULTS	7
3.1 Test Standards	
3.2 Uncertainty of Test	7
3.3 Summary of Test Result	
4 TEST CONFIGURATION	
4.1 Test Equipment List	
4.2 Test Auxiliary Equipment	
4.3 Test Modes	
5 EVALUATION RESULTS (EVALUATION)	13
5.1 Antenna requirement	
5.1.1 Conclusion:	13
6 RADIO SPECTRUM MATTER TEST RESULTS (RF)	14
6 RADIO SPECTRUM MATTER TEST RESULTS (RF)	
6.1 Conducted Emission at AC power line	
6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation:	14 14
6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram:	14 14
6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram: 6.1.3 Test Data:	14
 6.1 Conducted Emission at AC power line	14
 6.1 Conducted Emission at AC power line	
 6.1 Conducted Emission at AC power line	
 6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram: 6.1.3 Test Data: 6.2 Occupied Bandwidth 6.2.1 E.U.T. Operation: 6.2.2 Test Setup Diagram: 6.2.3 Test Data: 	
 6.1 Conducted Emission at AC power line	
 6.1 Conducted Emission at AC power line	
 6.1 Conducted Emission at AC power line	
 6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram: 6.1.3 Test Data: 6.2 Occupied Bandwidth 6.2.1 E.U.T. Operation: 6.2.2 Test Setup Diagram: 6.2.3 Test Data: 6.3 Maximum Conducted Output Power 6.3.1 E.U.T. Operation: 6.3.2 Test Setup Diagram: 6.3.3 Test Data: 	
 6.1 Conducted Emission at AC power line	
 6.1 Conducted Emission at AC power line	
 6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram: 6.1.3 Test Data: 6.2 Occupied Bandwidth 6.2.1 E.U.T. Operation: 6.2.2 Test Setup Diagram: 6.2.3 Test Data: 6.3 Maximum Conducted Output Power 6.3.1 E.U.T. Operation: 6.3.2 Test Setup Diagram: 6.3.3 Test Data: 6.4 Power Spectral Density 6.4.1 E.U.T. Operation: 6.4.2 Test Setup Diagram: 	
 6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram: 6.1.3 Test Data: 6.2 Occupied Bandwidth 6.2.1 E.U.T. Operation: 6.2.2 Test Setup Diagram: 6.2.3 Test Data: 6.3 Maximum Conducted Output Power 6.3.1 E.U.T. Operation: 6.3.2 Test Setup Diagram: 6.3.3 Test Data: 6.4 Power Spectral Density 6.4.1 E.U.T. Operation: 6.4.2 Test Setup Diagram: 6.4.3 Test Data: 	
 6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram: 6.1.3 Test Data: 6.2 Occupied Bandwidth 6.2.1 E.U.T. Operation: 6.2.2 Test Setup Diagram: 6.2.3 Test Data: 6.3 Maximum Conducted Output Power 6.3.1 E.U.T. Operation: 6.3.2 Test Setup Diagram: 6.3.3 Test Data: 6.4 Power Spectral Density 6.4.1 E.U.T. Operation: 6.4.2 Test Setup Diagram: 6.4.3 Test Data: 6.5 Emissions in non-restricted frequency bands 	
 6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram: 6.1.3 Test Data: 6.2 Occupied Bandwidth 6.2.1 E.U.T. Operation: 6.2.2 Test Setup Diagram: 6.2.3 Test Data: 6.3 Maximum Conducted Output Power 6.3.1 E.U.T. Operation: 6.3.2 Test Setup Diagram: 6.3.3 Test Data: 6.4 Power Spectral Density 6.4.1 E.U.T. Operation: 6.4.2 Test Setup Diagram: 6.4.3 Test Data: 	
 6.1 Conducted Emission at AC power line	
 6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram: 6.1.3 Test Data: 6.2 Occupied Bandwidth 6.2.1 E.U.T. Operation: 6.2.2 Test Setup Diagram: 6.2.3 Test Data: 6.3 Maximum Conducted Output Power 6.3.1 E.U.T. Operation: 6.3.2 Test Setup Diagram: 6.3.3 Test Data: 6.4 Power Spectral Density 6.4.1 E.U.T. Operation: 6.4.2 Test Setup Diagram: 6.4.3 Test Data: 6.5 Emissions in non-restricted frequency bands 6.5.1 E.U.T. Operation: 6.5.2 Test Setup Diagram: 	
 6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram: 6.1.3 Test Data: 6.2 Occupied Bandwidth 6.2.1 E.U.T. Operation: 6.2.2 Test Setup Diagram: 6.2.3 Test Data: 6.3 Maximum Conducted Output Power 6.3.1 E.U.T. Operation: 6.3.2 Test Setup Diagram: 6.3.3 Test Data: 6.4 Power Spectral Density 6.4.1 E.U.T. Operation: 6.4.2 Test Setup Diagram: 6.4.3 Test Data: 6.5 Emissions in non-restricted frequency bands 6.5.2 Test Setup Diagram: 6.5.3 Test Data: 	
 6.1 Conducted Emission at AC power line 6.1.1 E.U.T. Operation: 6.1.2 Test Setup Diagram: 6.1.3 Test Data: 6.2 Occupied Bandwidth 6.2.1 E.U.T. Operation: 6.2.2 Test Setup Diagram: 6.2.3 Test Data: 6.3 Maximum Conducted Output Power 6.3.1 E.U.T. Operation: 6.3.2 Test Setup Diagram: 6.3.3 Test Data: 6.4 Power Spectral Density 6.4.1 E.U.T. Operation: 6.4.2 Test Setup Diagram: 6.5.1 E.U.T. Operation: 6.5.1 E.U.T. Operation: 6.5.2 Test Setup Diagram: 6.5.3 Test Data: 	

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6.7.1 E.U.T. Operation:	
6.7.2 Test Data:	
6.8 Emissions in restricted frequency bands (above 1GHz)	33
6.8.1 E.U.T. Operation:	
6.8.2 Test Data:	
7 TEST SETUP PHOTOS	
8 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	
APPENDIX	



1 Introduction

1.1 Identification of Testing Laboratory

1.2 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.3 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130
FCC Registration Number:	518915
Designation Number:	CN1330

1.4 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

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2 **Product Information**

2.1 Application Information

Company Name:	SHENZHEN RANVOO DIGITAL TECHNOLOGY CO., LTD.	
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China	
2.2 Manufacturer Information		

Company Name:	SHENZHEN RANVOO DIGITAL TECHNOLOGY CO., LTD.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.3 Factory Information

Company Name:	SHENZHEN RANVOO DIGITAL TECHNOLOGY CO., LTD.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.4 General Description of Equipment under Test (EUT)

FG7

Wearable Smart Air Conditioner

2.5 Technical Information

EUT Name:

Test Model Number:

Power Supply:	DC 3.85V from battery	
Operation Frequency:	2402MHz to 2480MHz	
Number of Channels:	40	
Modulation Type:	GFSK	
Antenna Type:	Ceramic Antenna	
Antenna Gain:	0.39dBi	
Bluetooth Version:	5.0	



3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards: **47 CFR Part 15.247:** Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	±2.64dB
The following measurement uncertainty levels have been estimated for tests	s performed on the EUT as

specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass



Test Configuration 4

Test Equipment List 4.1

Conducted Emission at AC power line							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2022-11-24	2023-11-23		
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23		
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23		
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22		
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2022-11-24	2023-11-23		

Occupied Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
RFTest software	/	V1.00	/	/	/	
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23	
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23	
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23	
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23	
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23	
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23	

Maximum Conducted Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
RFTest software	/	V1.00	/	/	/	
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23	
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23	
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23	
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23	
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23	
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23	

Power Spectral Density						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
RFTest software	/	V1.00	/	/	/	

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Page 8 of 72



RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Emissions in non-restricted frequency bands						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
RFTest software	/	V1.00	/	/	/	
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23	
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23	
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23	
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23	
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23	
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23	

Band edge emissions (Radiated)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2022-03-26	2023-03-25	
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23	
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	1	1	
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27	
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23	
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23	

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Page 9 of 72



POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2022-03-26	2023-03-25
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Emissions in restricted frequency bands (below 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2022-03-26	2023-03-25	
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23	
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/	
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27	
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23	
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23	
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/	
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	80000	2022-03-26	2023-03-25	
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21	
EZ_EMC	Frad	FA-03A2 RE+	/	/	/	
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/	
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27	

Emissions in restricted frequency bands (above 1GHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2022-03-26	2023-03-25		
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23		

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Page 10 of 72



POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2022-03-26	2023-03-25
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27



4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes	4.3	Test Modes	
----------------	-----	------------	--

No.	Test Modes	Description
TM1	TX mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation.



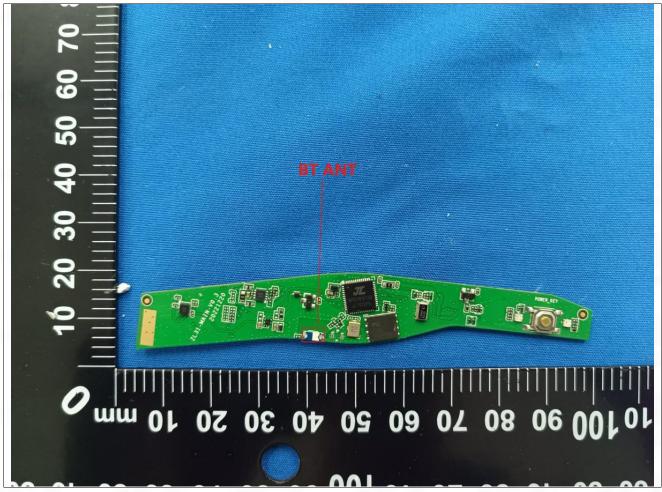
5 **Evaluation Results (Evaluation)**

5.1 Antenna requirement

Test Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

5.1.1 Conclusion:



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Page 13 of 72



6 Radio Spectrum Matter Test Results (RF)

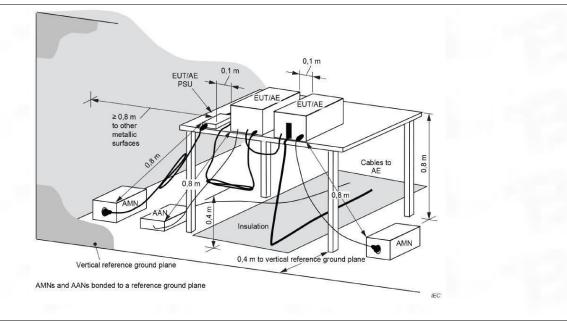
6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b that is designed to be connected t frequency voltage that is conducte or frequencies, within the band 15 the following table, as measured u stabilization network (LISN).	o the public utility (AC) ed back onto the AC po 0 kHz to 30 MHz, shall	power line, the radio wer line on any frequency not exceed the limits in		
Test Method:	lethod: Refer to ANSI C63.10-2013 section 6.2, standard test method for ac pow conducted emissions from unlicensed wireless devices		ethod for ac power-line		
	Frequency of emission (MHz)	Conducted limit (dBµV)			
		Quasi-peak	Average		
Test Limit:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	5-30 60 50			
	*Decreases with the logarithm of t	he frequency.			

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.1 °C
Humidity:	50.1 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:

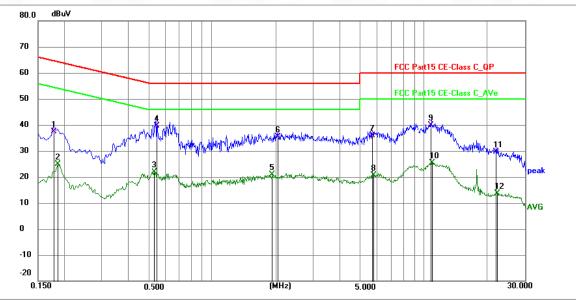


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6.1.3 Test Data:

TM1 / Line: Line / Band: 2.4G / BW: 2 / CH: M



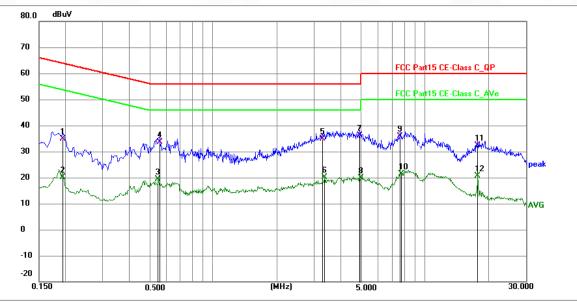
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1770	27.20	10.21	37.41	64.63	-27.22	QP	Р	
2	0.1860	14.79	10.21	25.00	54.21	-29.21	AVG	Р	
3	0.5323	11.60	10.26	21.86	46.00	-24.14	AVG	Р	
4 *	0.5503	29.45	10.26	39.71	56.00	-16.29	QP	Р	
5	1.9230	10.71	10.24	20.95	46.00	-25.05	AVG	Р	
6	2.0400	25.14	10.24	35.38	56.00	-20.62	QP	Р	
7	5.7030	25.60	10.24	35.84	60.00	-24.16	QP	Р	
8	5.7480	10.34	10.24	20.58	50.00	-29.42	AVG	Р	
9	10.8959	29.51	10.30	39.81	60.00	-20.19	QP	Р	
10	11.0040	15.13	10.29	25.42	50.00	-24.58	AVG	Р	
11	21.9840	19.93	9.81	29.74	60.00	-30.26	QP	Р	
12	22.1820	3.85	9.81	13.66	50.00	-36.34	AVG	Ρ	

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Page 15 of 72



TM1 / Line: Neutral / Band: 2.4G / BW: 2 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1949	24.57	10.19	34.76	63.83	-29.07	QP	Р	
2	0.1949	10.00	10.19	20.19	53.83	-33.64	AVG	Р	
3	0.5503	9.04	10.26	19.30	46.00	-26.70	AVG	Р	
4	0.5594	23.31	10.26	33.57	56.00	-22.43	QP	Р	
5	3.2820	24.66	10.23	34.89	56.00	-21.11	QP	Р	
6	3.3540	9.85	10.23	20.08	46.00	-25.92	AVG	Р	
7 *	4.9020	25.99	10.20	36.19	56.00	-19.81	QP	Р	
8	4.9740	9.68	10.20	19.88	46.00	-26.12	AVG	Р	
9	7.6290	25.45	10.33	35.78	60.00	-24.22	QP	Р	
10	7.7100	11.10	10.33	21.43	50.00	-28.57	AVG	Р	
11	17.8125	22.50	9.89	32.39	60.00	-27.61	QP	Р	
12	17.8125	10.62	9.89	20.51	50.00	-29.49	AVG	Р	

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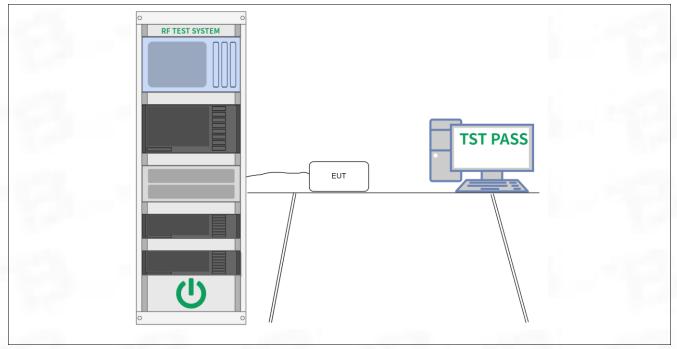
6.2 Occupied Bandwidth

Test Requirement:	Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	DTS bandwidth
Test Limit:	Section (a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW >= [3 x RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.2.1 E.U.T. Operation:

Operating Environment:		
Temperature:	23.1 °C	
Humidity:	50.1 %	
Atmospheric Pressure:	1010 mbar	

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.



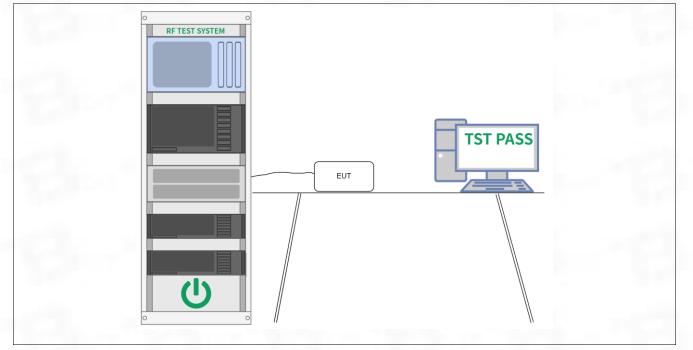
6.3 Maximum Conducted Output Power

Test Requirement:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	Maximum peak conducted output power
Test Limit:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power
6.3.1 E.U.T. Operation:	
Operating Environment:	

Operating Environment:	
Temperature:	23.1 °C
Humidity:	50.1 %
Atmospheric Pressure:	1010 mbar



6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.



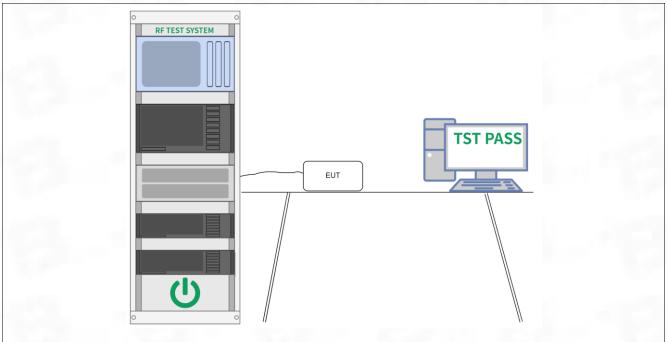
6.4 Power Spectral Density

Test Requirement:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	Maximum power spectral density level in the fundamental emission
Test Limit:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.1 °C
Humidity:	50.1 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.



6.5 Emissions in non-restricted frequency bands

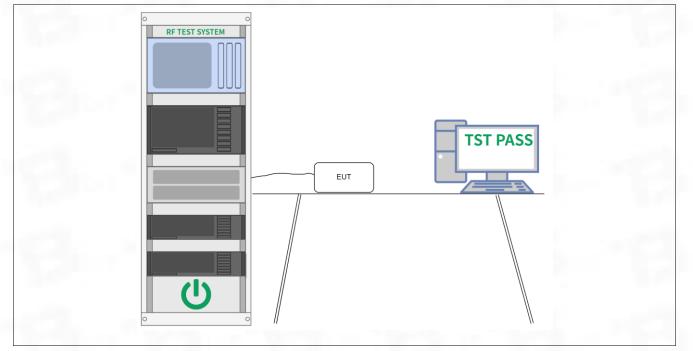
Test Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	Emissions in nonrestricted frequency bands
Test Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.1 E.U.T. Operation:

Operating Environment:		
Temperature:	23.1 °C	
Humidity:	50.1 %	
Atmospheric Pressure:	1010 mbar	



6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.



Humidity:

Atmospheric Pressure:

6.6 Band edge emissions (Radiated)

50.1 % 1010 mbar

Test Requirement:	15.205(a), must also cor	n addition, radiated 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)(see § 15.205(c)).						
Test Method:	Radiated emissions test	5						
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490	2400/F(kHz)	300					
	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
Test Limit:	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.							
Procedure:	ANSI C63.10-2013 secti	on 6.6.4						
6.6.1 E.U.T. Operation:								
Operating Environment:								
Temperature:	23.1 °C							



6.6.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	67.86	-30.59	37.27	74.00	-36.73	peak	Р
2	2390.000	68.14	-30.49	37.65	74.00	-36.35	peak	Р
3 *	2400.000	80.89	-30.48	50.41	74.00	-23.59	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	68.07	-30.59	37.48	74.00	-36.52	peak	Р
2	2390.000	68.48	-30.49	37.99	74.00	-36.01	peak	Р
3 *	2400.000	81.40	-30.48	50.92	74.00	-23.08	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	73.22	-30.39	42.83	74.00	-31.17	peak	Р
2	2500.000	69.36	-30.37	38.99	74.00	-35.01	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	72.22	-30.39	41.83	74.00	-32.17	peak	Р
2	2500.000	68.68	-30.37	38.31	74.00	-35.69	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	67.46	-30.59	36.87	74.00	-37.13	peak	Р
2	2390.000	68.55	-30.49	38.06	74.00	-35.94	peak	Р
3 *	2400 000	80.64	-30.48	50.16	74 00	-23.84	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: L

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	68.79	-30.59	38.20	74.00	-35.80	peak	Р
2	2390.000	68.65	-30.49	38.16	74.00	-35.84	peak	Р
3 *	2400.000	83.96	-30.48	53.48	74.00	-20.52	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	76.82	-30.39	46.43	74.00	-27.57	peak	Р
2	2500.000	67.69	-30.37	37.32	74.00	-36.68	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	74.93	-30.39	44.54	74.00	-29.46	peak	Р
2	2500.000	68.00	-30.37	37.63	74.00	-36.37	peak	Р



6.7 Emissions in restricted frequency bands (below 1GHz)

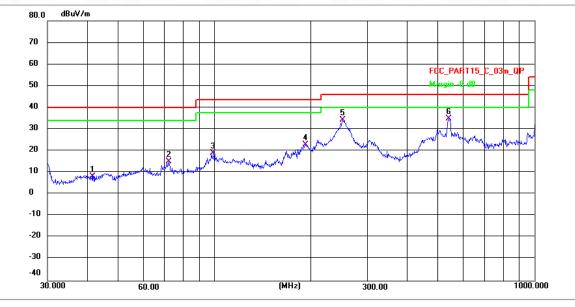
Test Requirement:		ssions which fall in the restricted mply with the radiated emission (c)).						
Test Method:	Radiated emissions test	S						
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490	2400/F(kHz)	300					
	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
Test Limit:	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.							
Procedure:	ANSI C63.10-2013 sect	ion 6.6.4						
6.7.1 E.U.T. Operation:		1000						
Operating Environment:								
Taran aratura	00.4.90							

oporading Environmente	
Temperature:	23.1 °C
Humidity:	50.1 %
Atmospheric Pressure:	1010 mbar



6.7.2 Test Data:

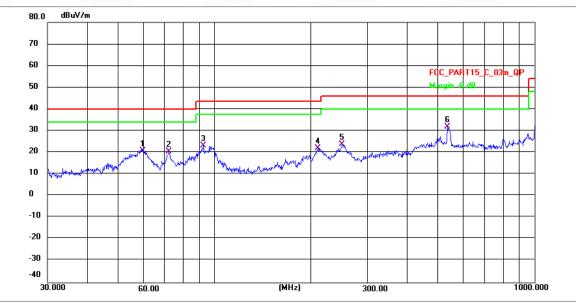
TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	41.4215	28.80	-20.52	8.28	40.00	-31.72	QP	Р
2	72.0843	35.03	-20.04	14.99	40.00	-25.01	QP	Р
3	98.1797	47.46	-28.36	19.10	43.50	-24.40	QP	Р
4	192.4185	50.27	-27.40	22.87	43.50	-20.63	QP	Р
5	251.1804	60.10	-25.84	34.26	46.00	-11.74	QP	Р
6 *	539.4775	56.43	-21.55	34.88	46.00	-11.12	QP	Р

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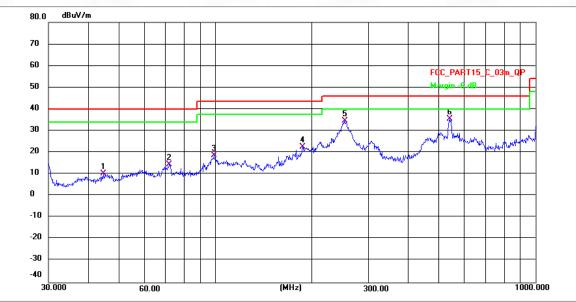




TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	59.4405	40.80	-20.16	20.64	40.00	-19.36	QP	Р
2	73.0843	40.55	-19.96	20.59	40.00	-19.41	QP	Р
3	92.1388	52.57	-29.52	23.05	43.50	-20.45	QP	Р
4	210.0482	48.80	-26.89	21.91	43.50	-21.59	QP	Р
5	250.3012	49.55	-25.85	23.70	46.00	-22.30	QP	Р
6 *	535.7073	53.43	-21.52	31.91	46.00	-14.09	QP	Р

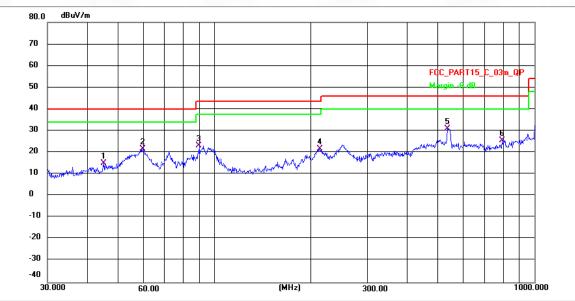




TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	44.4308	30.62	-20.46	10.16	40.00	-29.84	QP	Р
2	71.8320	34.48	-20.04	14.44	40.00	-25.56	QP	Р
3	99.1797	46.93	-28.36	18.57	43.50	-24.93	QP	Р
4	187.0958	49.98	-27.45	22.53	43.50	-20.97	QP	Р
5	252.9482	60.41	-25.83	34.58	46.00	-11.42	QP	Р
6 *	539.5775	56.96	-21.55	35.41	46.00	-10.59	QP	Р

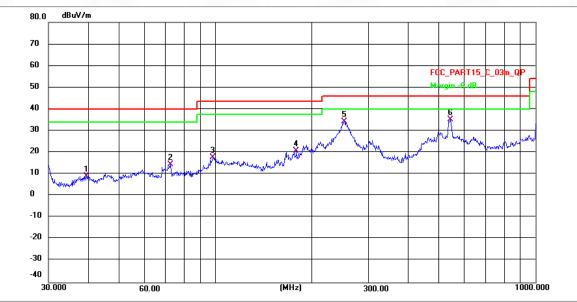




TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	44.9006	35.50	-20.43	15.07	40.00	-24.93	QP	Р
2	59.4405	41.93	-20.16	21.77	40.00	-18.23	QP	Р
3	89.5899	53.14	-29.94	23.20	43.50	-20.30	QP	Р
4	213.0151	48.56	-26.76	21.80	43.50	-21.70	QP	Р
5 *	535.7073	52.38	-21.52	30.86	46.00	-15.14	QP	Р
6	793.3960	49.21	-23.75	25.46	46.00	-20.54	QP	Р

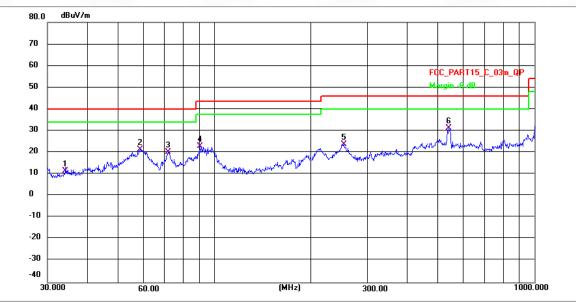




TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	39.4371	29.67	-20.56	9.11	40.00	-30.89	QP	Р
2	72.3376	34.55	-20.03	14.52	40.00	-25.48	QP	Р
3	98.1419	46.40	-28.54	17.86	43.50	-25.64	QP	Р
4	178.7584	48.39	-27.52	20.87	43.50	-22.63	QP	Р
5	252.0627	60.04	-25.84	34.20	46.00	-11.80	QP	Р
6 *	543.2742	56.82	-21.59	35.23	46.00	-10.77	QP	Р





TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	34.1561	32.01	-20.65	11.36	40.00	-28.64	QP	Р
2	58.4074	41.67	-20.19	21.48	40.00	-18.52	QP	Р
3	71.5806	40.21	-19.96	20.25	40.00	-19.75	QP	Р
4	90.2205	52.57	-29.84	22.73	43.50	-20.77	QP	Р
5	252.9482	49.52	-25.83	23.69	46.00	-22.31	QP	Р
6 *	540.4775	52.83	-21.55	31.28	46.00	-14.72	QP	Р



6.8 Emissions in restricted frequency bands (above 1GHz)

Test Requirement:		ssions which fall in the restricted nply with the radiated emission l c)).`										
Test Method:	Radiated emissions tests											
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)									
	0.009-0.490	2400/F(kHz)	300									
	0.490-1.705	24000/F(kHz)	30									
	1.705-30.0	30	30									
	30-88	100 **	3									
Test Limit:	88-216	150 **	3									
	216-960	200 **	3									
	Above 960	500	3									
	radiators operating unde 54-72 MHz, 76-88 MHz,	paragraph (g), fundamental emi r this section shall not be locate 174-216 MHz or 470-806 MHz. s permitted under other sections	d in the frequency bands However, operation within									
Procedure:	ANSI C63.10-2013 section	on 6.6.4										
6.8.1 E.U.T. Operation:												
Operating Environment:												

Operating Environment:	
Temperature:	23.1 °C
Humidity:	50.1 %
Atmospheric Pressure:	1010 mbar



6.8.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2674.048	64.00	-30.07	33.93	74.00	-40.07	peak	Р
2	3266.135	70.65	-29.27	41.38	74.00	-32.62	peak	Р
3	4290.736	74.97	-28.88	46.09	74.00	-27.91	peak	Р
4 *	6704.183	75.45	-25.20	50.25	74.00	-23.75	peak	Р
5	9566.309	71.62	-23.34	48.28	74.00	-25.72	peak	Р
6	13097.624	68.65	-21.27	47.38	74.00	-26.62	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3696.237	68.51	-29.04	39.47	74.00	-34.53	peak	Р
2	4659.154	71.30	-28.33	42.97	74.00	-31.03	peak	Р
3	6313.006	70.11	-25.37	44.74	74.00	-29.26	peak	Р
4 *	7659.739	73.98	-25.02	48.96	74.00	-25.04	peak	Р
5	11799.869	69.60	-22.54	47.06	74.00	-26.94	peak	Р
6	15235.029	68.42	-20.91	47.51	74.00	-26.49	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2709.056	63.36	-30.01	33.35	74.00	-40.65	peak	Р
2	3646.364	67.46	-29.04	38.42	74.00	-35.58	peak	Р
3	5067.987	68.83	-27.32	41.51	74.00	-32.49	peak	Р
4	6900.787	72.25	-25.02	47.23	74.00	-26.77	peak	Р
5	10390.709	72.67	-24.47	48.20	74.00	-25.80	peak	Р
6 *	15155.972	74.39	-20.75	53.64	74.00	-20.36	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3383.362	72.89	-29.16	43.73	74.00	-30.27	peak	Р
2	4510.742	74.53	-28.76	45.77	74.00	-28.23	peak	Р
3	5771.953	68.61	-26.07	42.54	74.00	-31.46	peak	Р
4	7659.739	73.98	-25.02	48.96	74.00	-25.04	peak	Р
5	9399.121	70.62	-23.42	47.20	74.00	-26.80	peak	Р
6 *	11782.828	74.66	-22.57	52.09	74.00	-21.91	peak	Р

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4106.309	69.73	-28.95	40.78	74.00	-33.22	peak	Р
2	5297.137	70.66	-27.12	43.54	74.00	-30.46	peak	Р
3	8031.569	67.95	-25.52	42.43	74.00	-31.57	peak	Р
4	9872.494	70.25	-24.01	46.24	74.00	-27.76	peak	Р
5	11490.229	71.82	-23.07	48.75	74.00	-25.25	peak	Р
6 *	14354.388	74.55	-21.16	53.39	74.00	-20.61	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3482.580	69.28	-29.07	40.21	74.00	-33.79	peak	Р
2	4630.960	67.25	-28.41	38.84	74.00	-35.16	peak	Р
3	6607.992	71.76	-25.29	46.47	74.00	-27.53	peak	Р
4 *	9627.333	75.78	-23.48	52.30	74.00	-21.70	peak	Р
5	13169.750	69.32	-21.21	48.11	74.00	-25.89	peak	Р
6	16338.827	69.29	-19.96	49.33	74.00	-24.67	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3148.416	73.67	-29.37	44.30	74.00	-29.70	peak	Р
2	4416.564	69.08	-28.82	40.26	74.00	-33.74	peak	Р
3	6513.181	72.30	-25.37	46.93	74.00	-27.07	peak	Р
4 *	7604.589	73.91	-24.94	48.97	74.00	-25.03	peak	Р
5	10390.709	72.67	-24.47	48.20	74.00	-25.80	peak	Р
6	15213.027	68.67	-20.86	47.81	74.00	-26.19	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4531.651	68.19	-28.70	39.49	74.00	-34.51	peak	Р
2	5849.207	68.58	-25.82	42.76	74.00	-31.24	peak	Р
3	6942.801	71.81	-24.98	46.83	74.00	-27.17	peak	Р
4 *	9627.333	73.78	-23.48	50.30	74.00	-23.70	peak	Р
5	11586.946	71.59	-22.92	48.67	74.00	-25.33	peak	Р
6	14496.147	67.78	-21.20	46.58	74.00	-27.42	peak	Р

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2906.170	70.13	-29.67	40.46	74.00	-33.54	peak	Р
2	4770.900	70.94	-28.01	42.93	74.00	-31.07	peak	Р
3	7052.014	70.39	-24.91	45.48	74.00	-28.52	peak	Р
4	10363.715	70.60	-24.45	46.15	74.00	-27.85	peak	Р
5	13757.267	70.24	-21.03	49.21	74.00	-24.79	peak	Р
6 *	16137.015	70.97	-20.93	50.04	74.00	-23.96	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: M

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3401.993	70.56	-29.14	41.42	74.00	-32.58	peak	Р
2	4457.603	71.84	-28.80	43.04	74.00	-30.96	peak	Р
3	6073.172	70.15	-25.34	44.81	74.00	-29.19	peak	Р
4	8945.860	70.70	-24.42	46.28	74.00	-27.72	peak	Р
5 *	12520.172	71.56	-21.60	49.96	74.00	-24.04	peak	Р
6	14496.147	69.78	-21.20	48.58	74.00	-25.42	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3156.617	69.74	-29.37	40.37	74.00	-33.63	peak	Р
2	4089.727	70.75	-28.96	41.79	74.00	-32.21	peak	Р
3	6552.835	68.96	-25.33	43.63	74.00	-30.37	peak	Р
4 *	9566.309	73.62	-23.34	50.28	74.00	-23.72	peak	Р
5	11613.769	72.73	-22.86	49.87	74.00	-24.13	peak	Р
6	16452.562	67.32	-19.41	47.91	74.00	-26.09	peak	Р

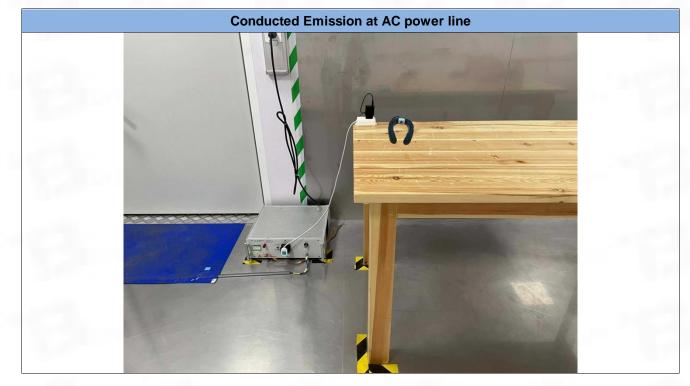
TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: H

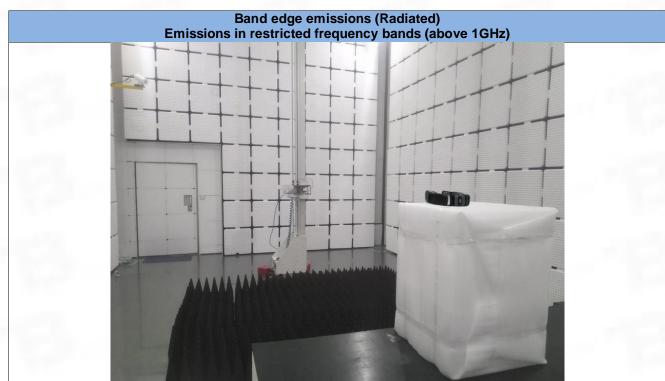
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3933.219	67.42	-29.01	38.41	74.00	-35.59	peak	Р
2	5667.801	67.62	-26.40	41.22	74.00	-32.78	peak	Р
3	6669.394	71.98	-25.23	46.75	74.00	-27.25	peak	Р
4 *	8406.858	74.62	-25.36	49.26	74.00	-24.74	peak	Р
5	9941.217	72.58	-24.16	48.42	74.00	-25.58	peak	Р
6	14668.956	69.82	-20.93	48.89	74.00	-25.11	peak	Р

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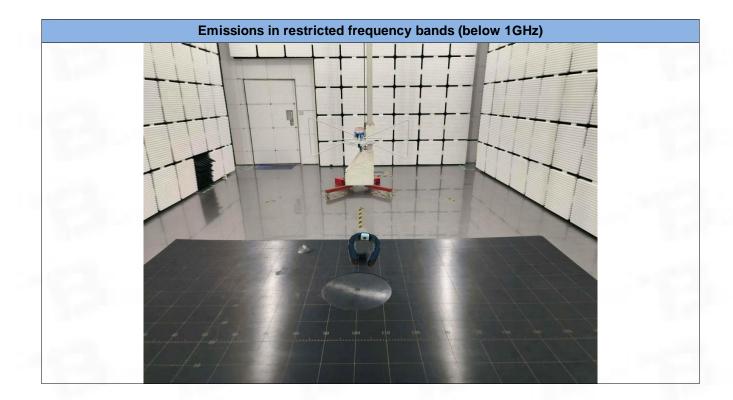
7 Test Setup Photos



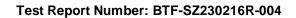


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8 EUT Constructional Details (EUT Photos)

Please refer to the report No.BTF-SZ230216R-003.

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Test Report Number: BTF-SZ230216R-004

Appendix

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1. Duty Cycle

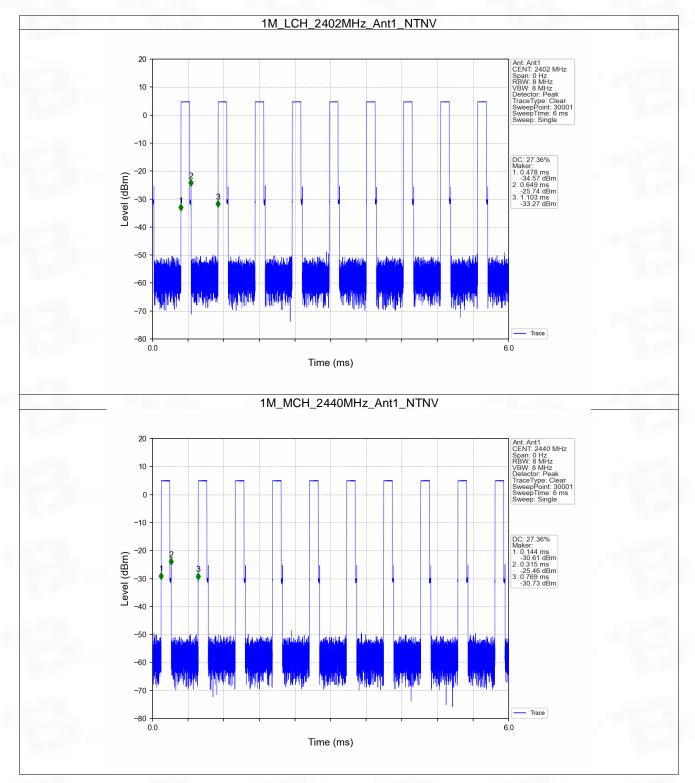
1.1 Ant1

1.1.1 Test Result

	Ant1							
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC	
Wouc	Туре	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)	
		2402	0.171	0.625	27.36	5.63	0.03	
1M	SISO	2440	0.171	0.625	27.36	5.63	0.03	
		2480	0.172	0.625	27.52	5.60	0.03	
		2402	0.136	0.625	21.76	6.62	0.03	
2M	SISO	2440	0.135	0.625	21.60	6.66	0.03	
		2480	0.135	0.625	21.60	6.66	0.03	

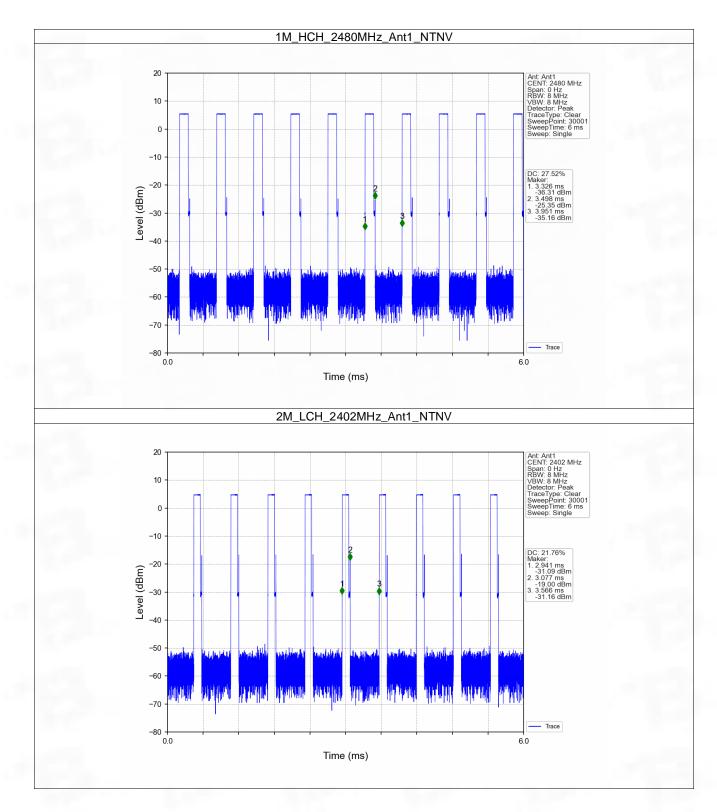


1.1.2 Test Graph



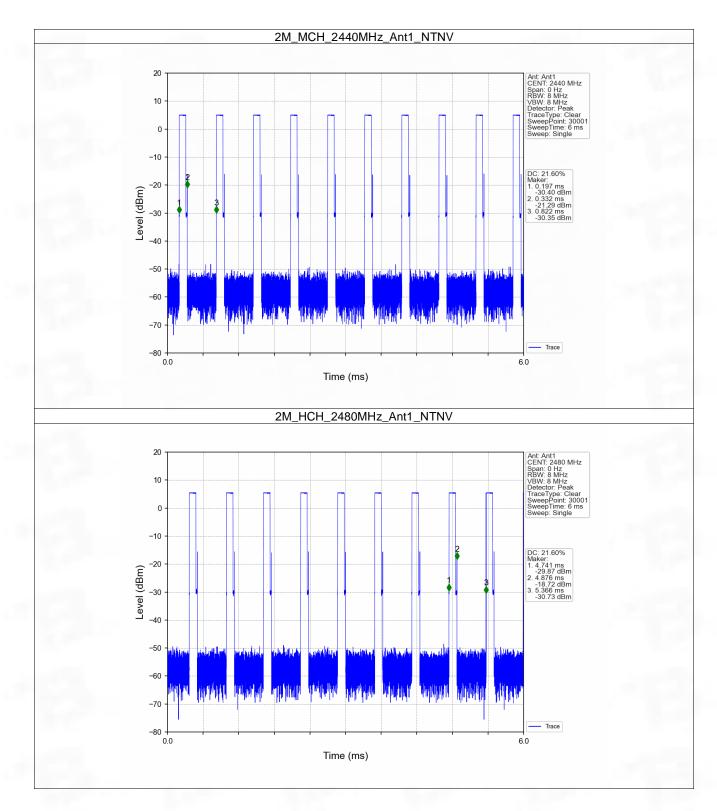
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Page 43 of 72





Page 44 of 72



Test Report Number: BTF-SZ230216R-004

2. Bandwidth

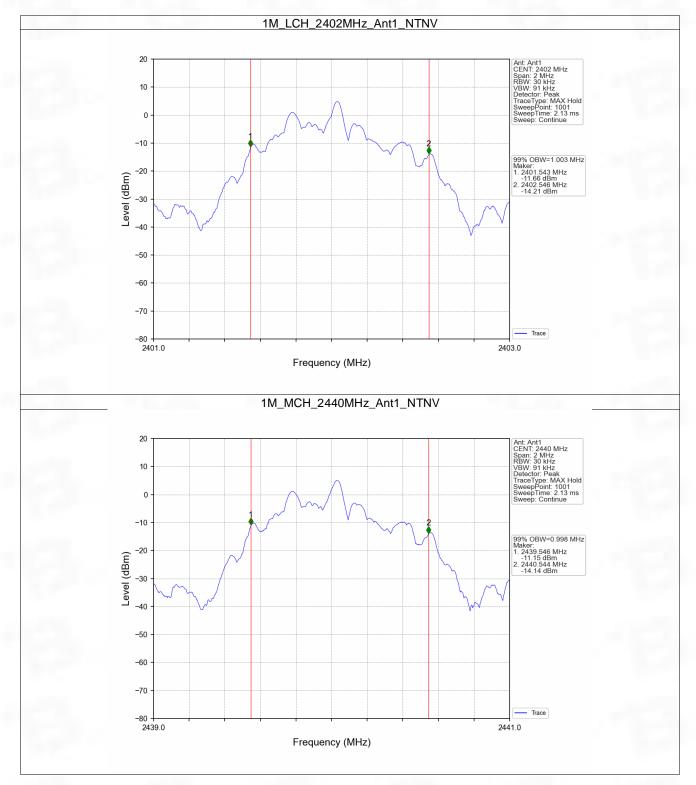
2.1 OBW

2.1.1 Test Result

Mada	TX	TX Frequency		99% Occupied Bandwidth (MHz)	Vordiat	
Mode	Туре	(MHz)	ANT	Result	Verdict	
		2402	1	1.003	Pass	
1M	SISO	SISO	2440	1	0.998	Pass
		2480	1	1.001	Pass	
		2402	1	2.046	Pass	
2M	SISO	2440	1	2.039	Pass	
		2480	1	2.049	Pass	

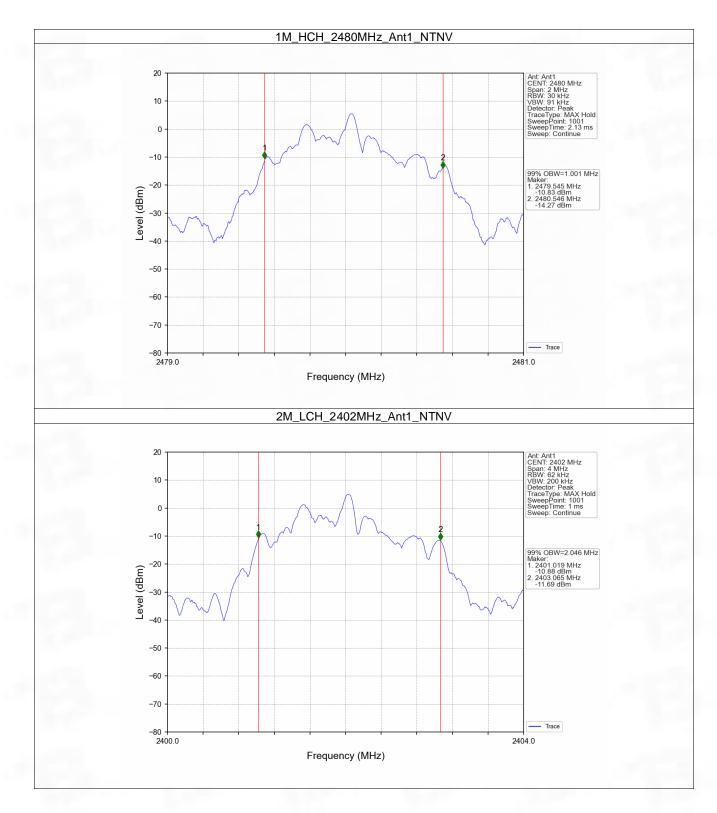


2.1.2 Test Graph



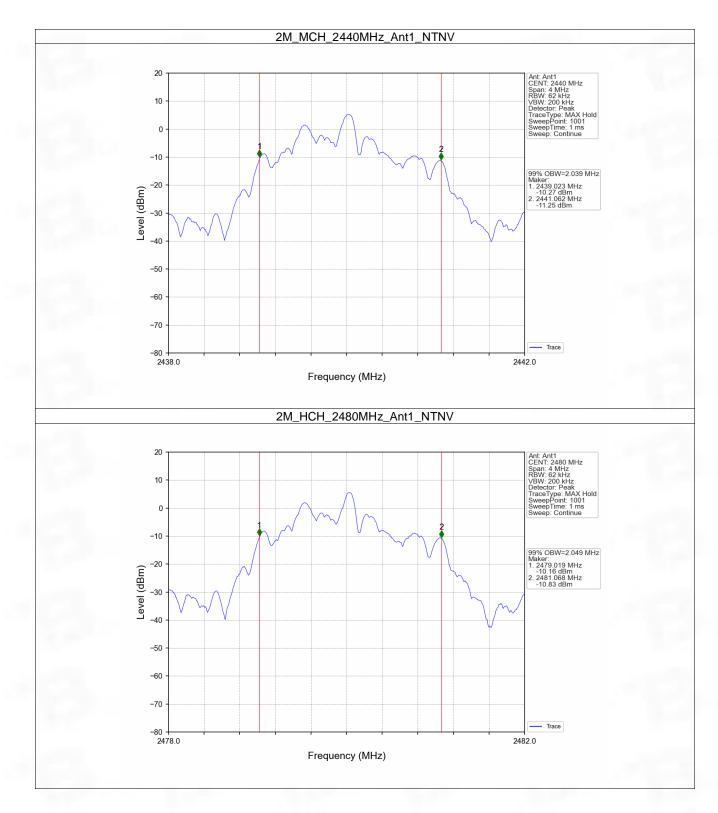
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Page 47 of 72





Page 48 of 72



Test Report Number: BTF-SZ230216R-004

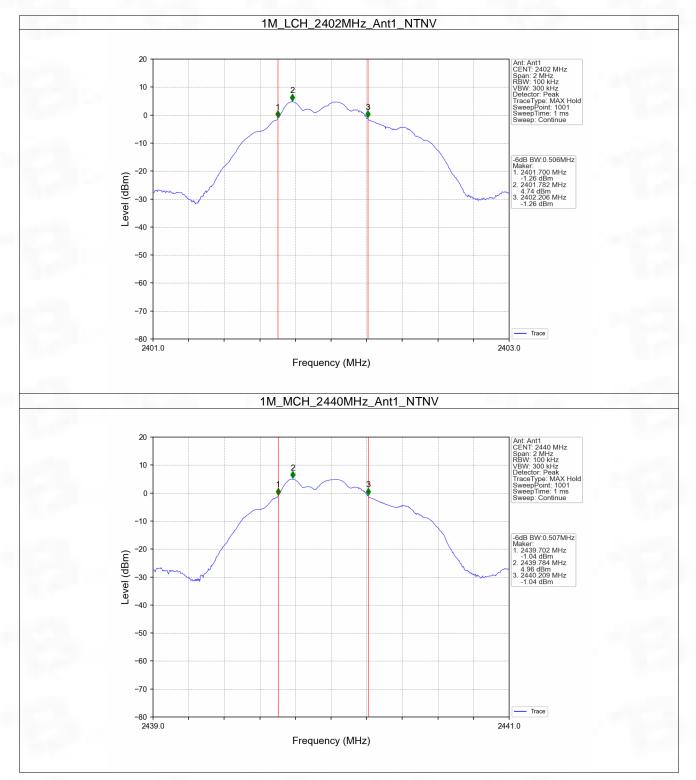
2.2 6dB BW

2.2.1 Test Result

Mada	TX	Frequency		6dB Bandwidth (MHz)		Vardiat
Mode	Туре	(MHz)	ANT	Result	Limit	Verdict
		2402	1	0.506	>=0.5	Pass
1M	SISO	2440	1	0.507	>=0.5	Pass
		2480	1	0.508	>=0.5	Pass
	SISO	2402	1	0.841	>=0.5	Pass
2M		2440	1	0.842	>=0.5	Pass
		2480	1	0.843	>=0.5	Pass

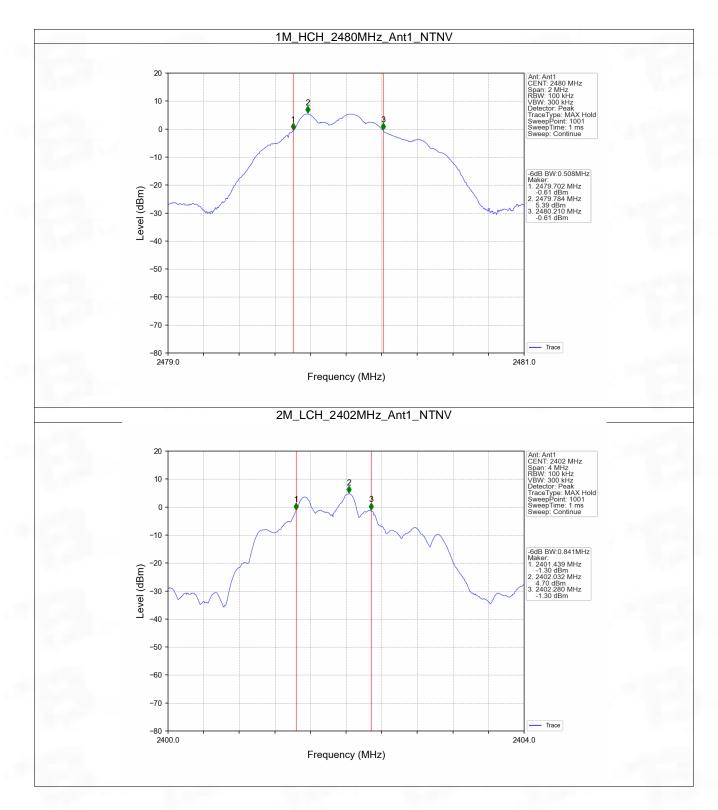


2.2.2 Test Graph



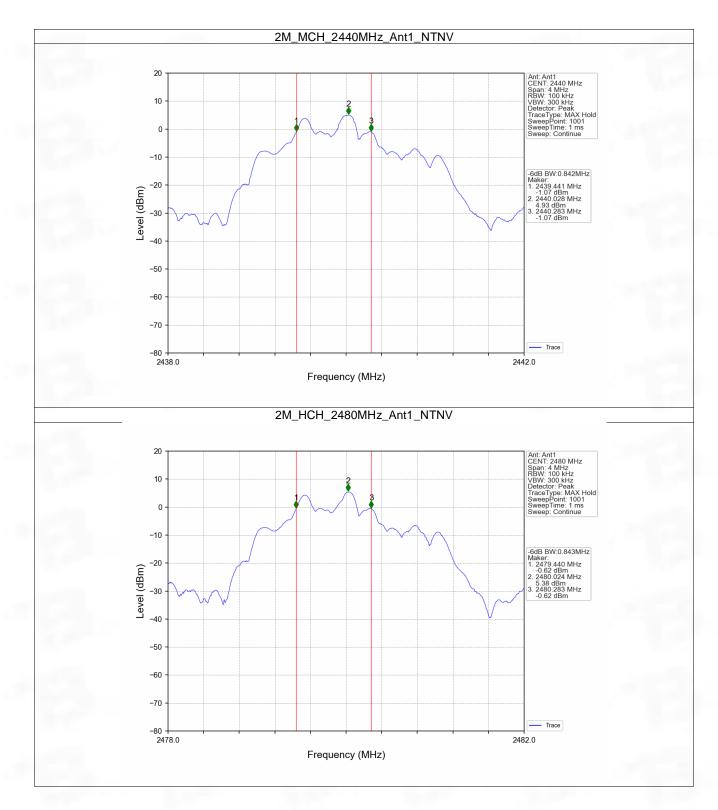
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Page 51 of 72





Page 52 of 72



3. Maximum Conducted Output Power

3.1 Power

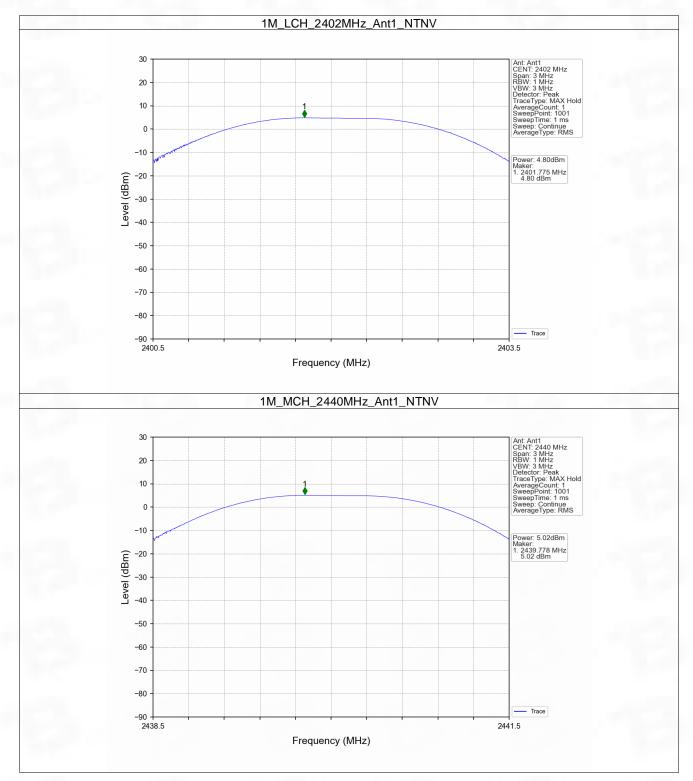
3.1.1 Test Result

Mada	TX	Frequency	Maximum Peak Conduc	Verdict	
Mode	Туре	(MHz)	ANT1	Limit	verdict
		2402	4.80	<=30	Pass
1M		SISO	2440	5.02	<=30
1000		2480	5.45	<=30	Pass
	SISO	2402	4.90	<=30	Pass
2M		2440	5.12	<=30	Pass
		2480	5.56	<=30	Pass

Note1: Antenna Gain: Ant1: 0.39dBi;

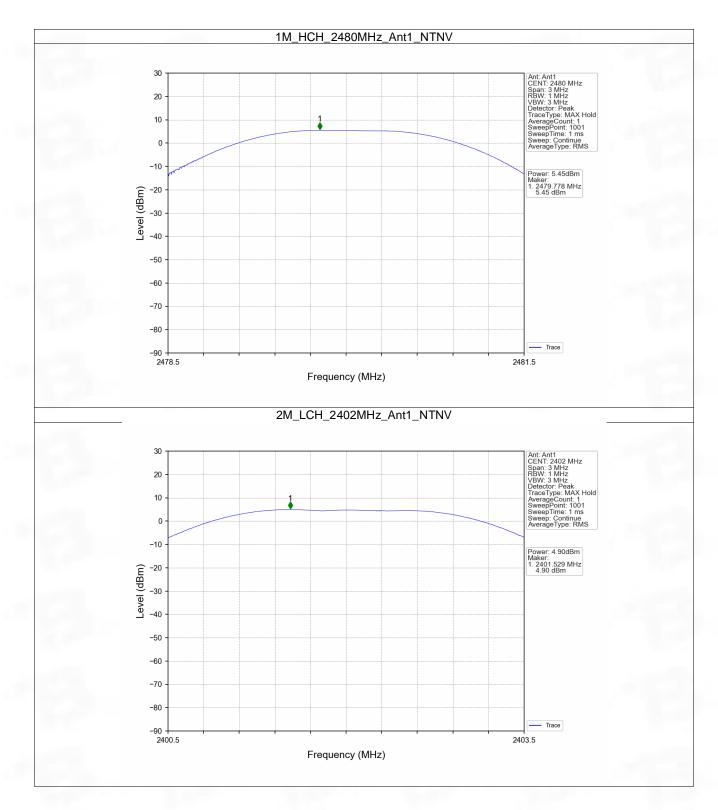


3.1.2 Test Graph

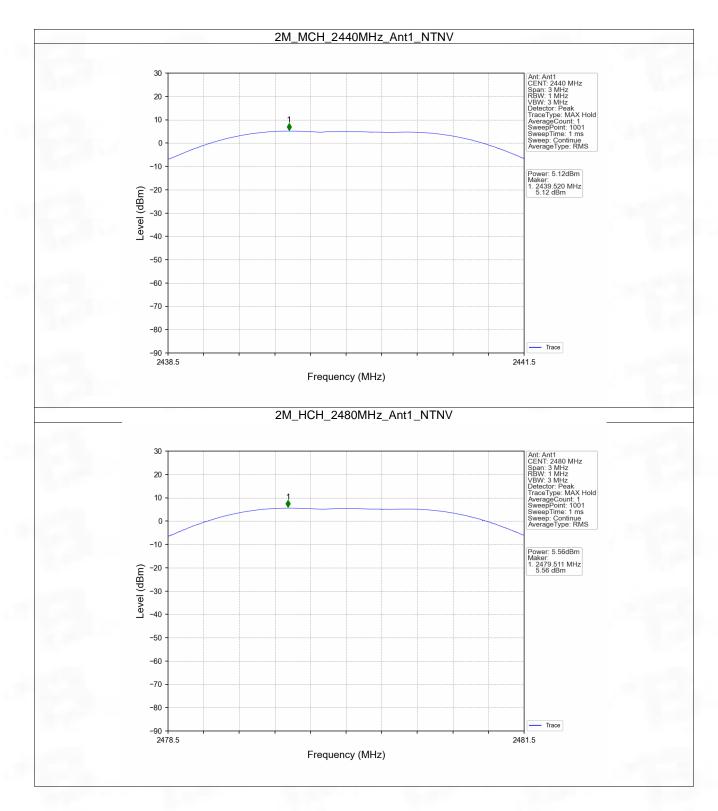


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Page 56 of 72



4. Maximum Power Spectral Density

4.1 PSD

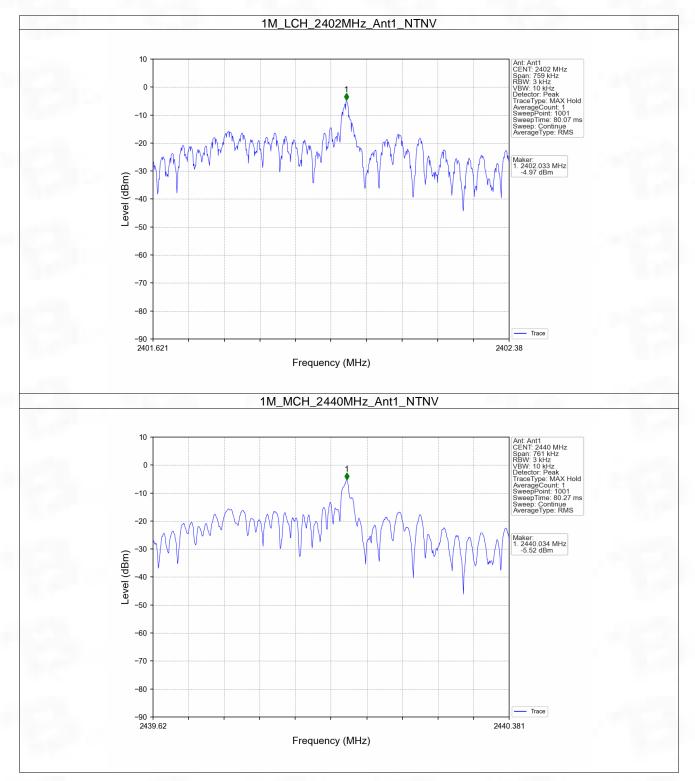
4.1.1 Test Result

Mada	TX	Frequency	Maximum PS	\/andiat	
Mode	Туре	(MHz)	ANT1	Limit	Verdict
	SISO	2402	-4.97	<=8	Pass
1M		2440	-5.52	<=8	Pass
		2480	-4.41	<=8	Pass
	SISO	2402	-5.38	<=8	Pass
2M		2440	-5.87	<=8	Pass
		2480	-4.78	<=8	Pass

Note1: Antenna Gain: Ant1: 0.39dBi;

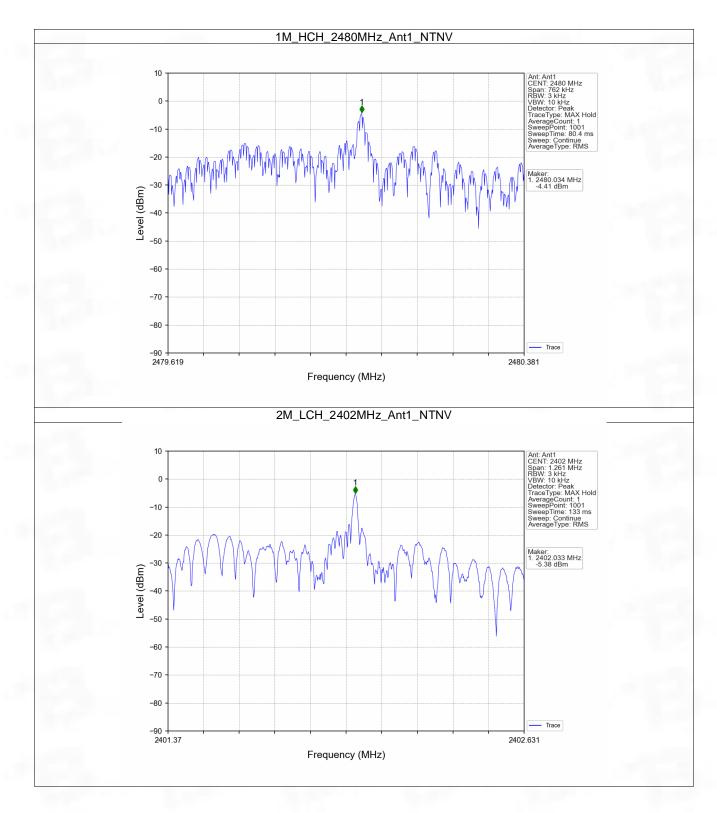


4.1.2 Test Graph



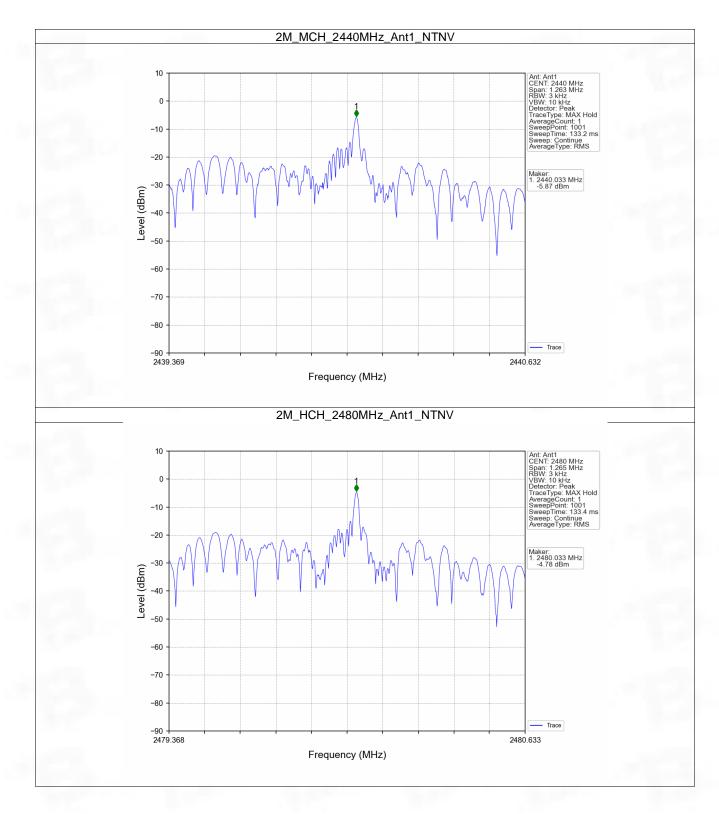
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Page 59 of 72





Page 60 of 72



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

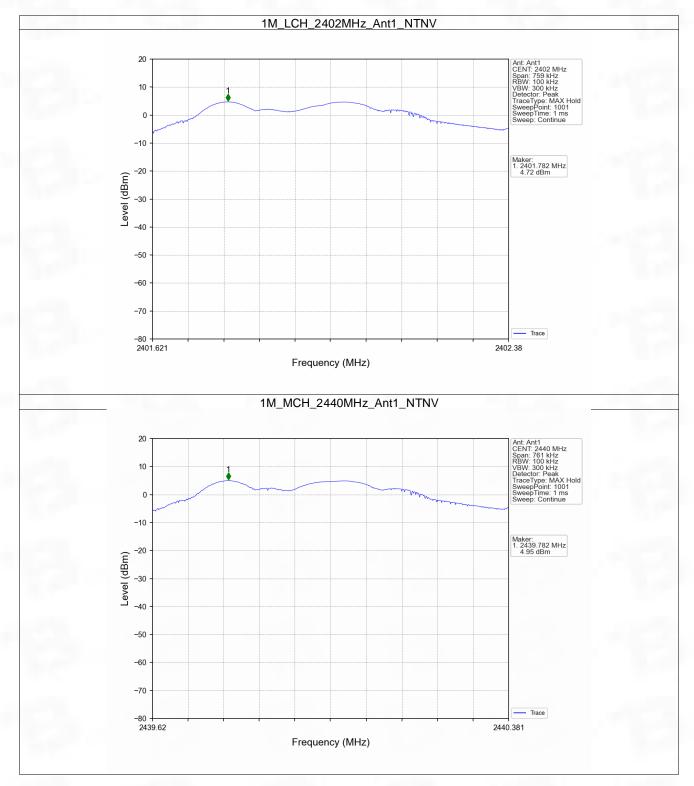
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	4.72
1M	SISO	2440	1	4.95
		2480	1	5.38
		2402	1	4.68
2M	SISO	2440	1	4.89
	0.00	2480	1	5.35

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

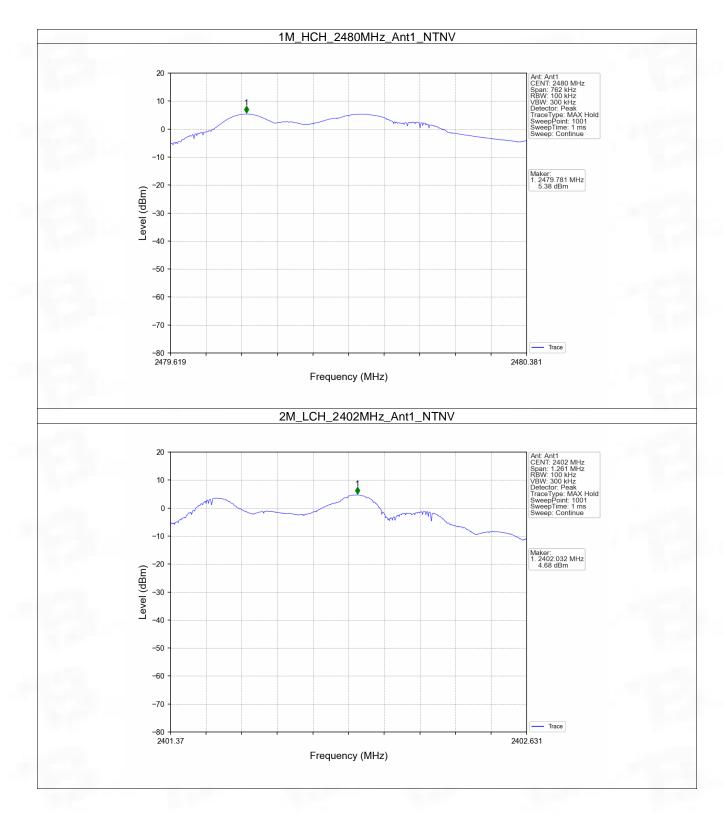


5.1.2 Test Graph



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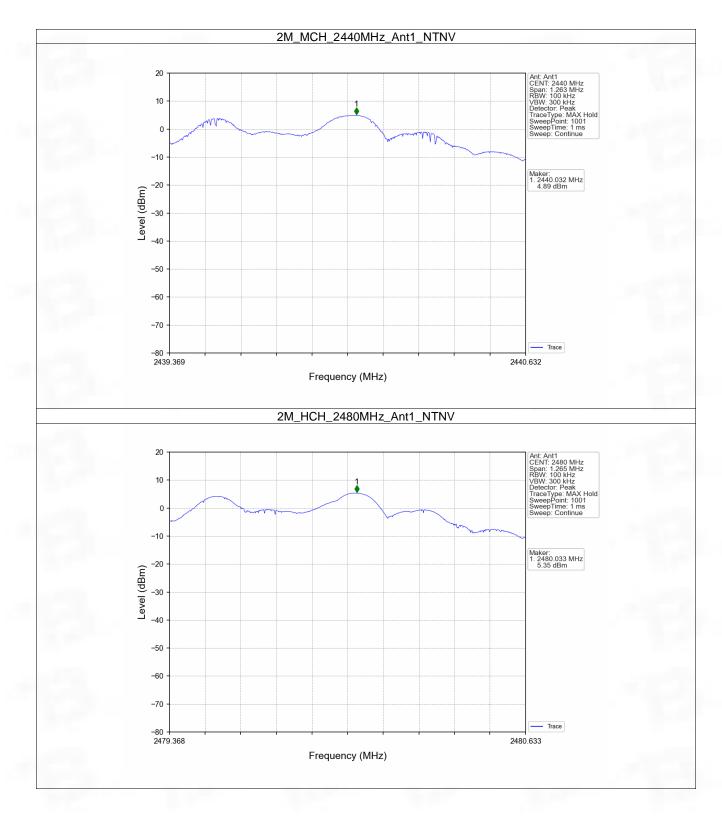




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Page 63 of 72





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Page 64 of 72



5.2 CSE

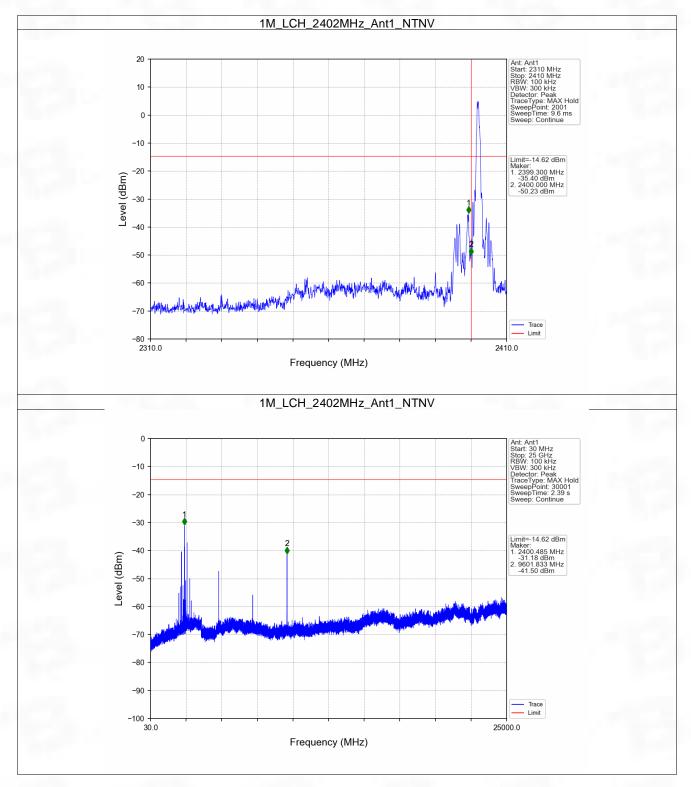
5.2.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	5.38	-14.62	Pass
1M SISO	SISO	2440	1	5.38	-14.62	Pass
		2480	1	(dBm) 5.38	-14.62	Pass
		2402	1	5.35	-14.65	Pass
2M	SISO	2440	1	5.35	-14.65	Pass
		2480	1	5.35	-14.65	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

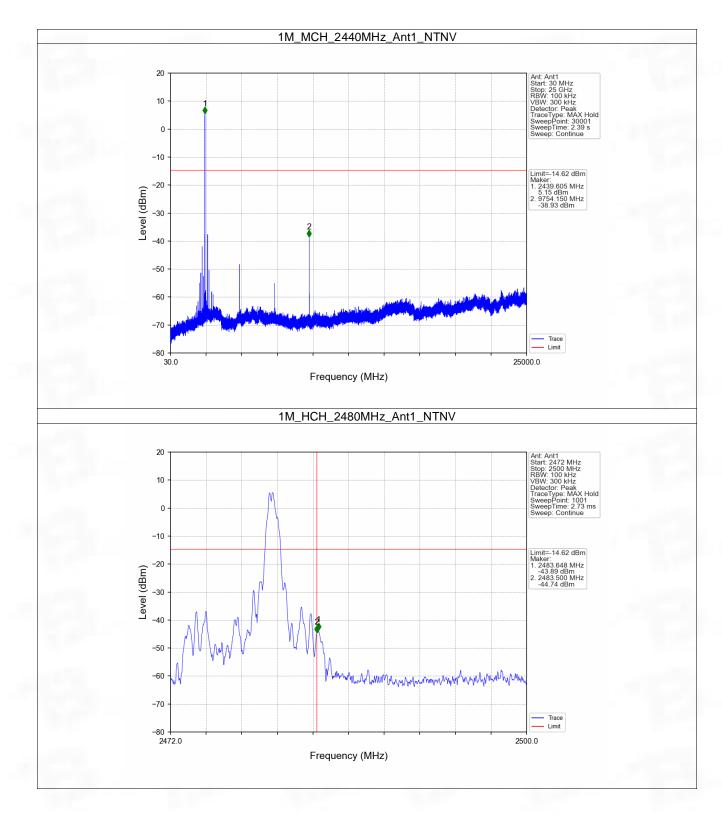


5.2.2 Test Graph



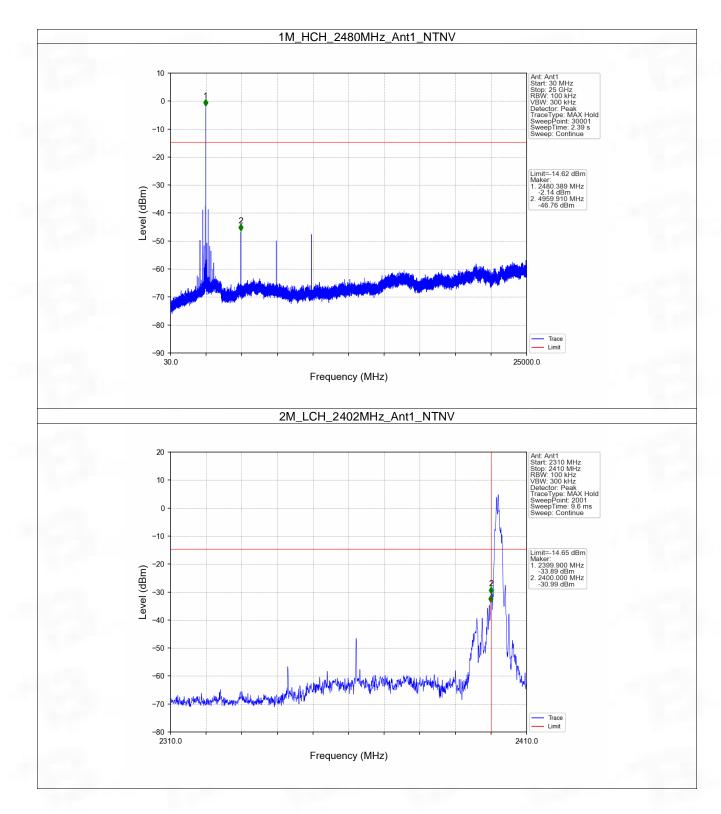
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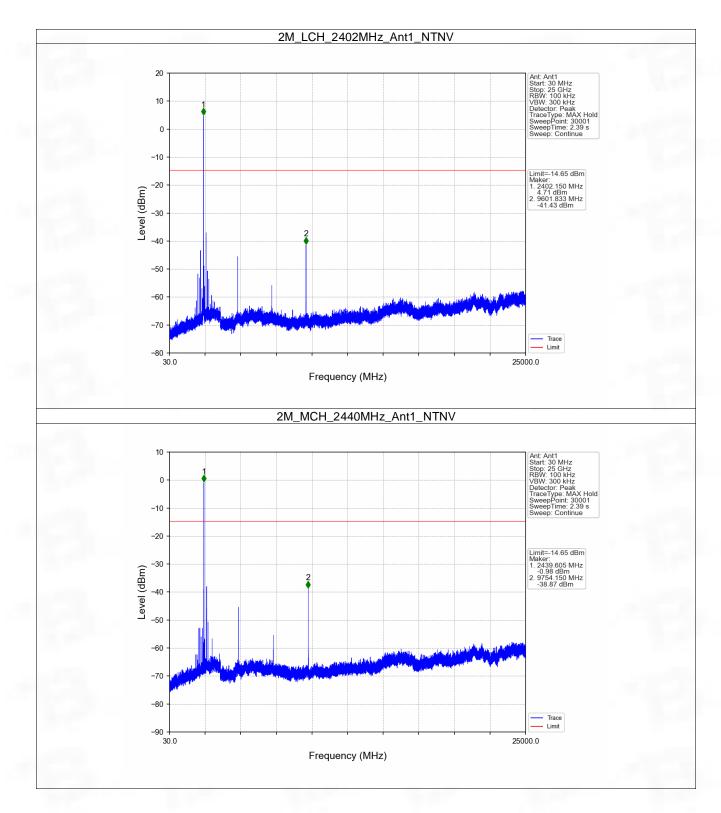
Page 67 of 72





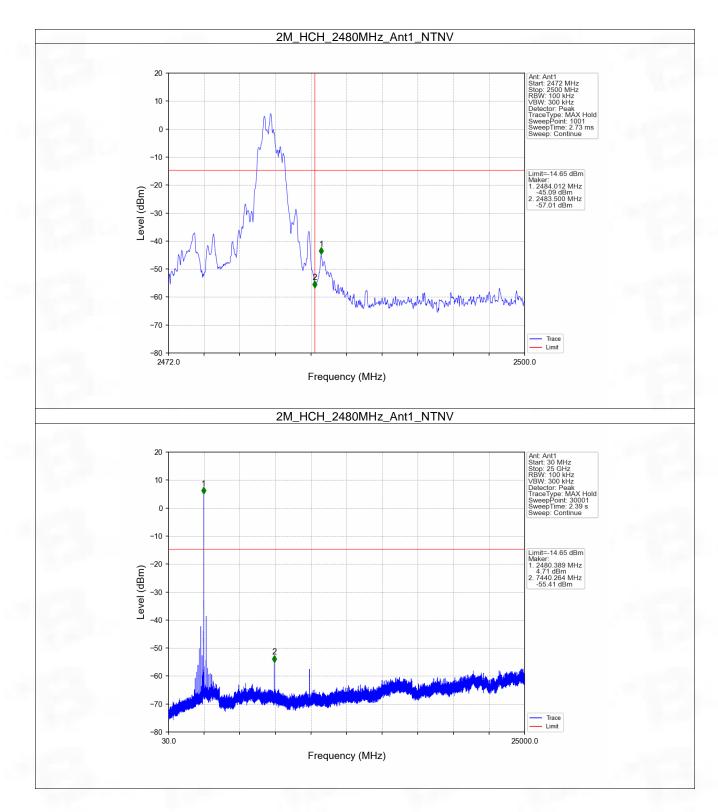
Page 68 of 72





Page 69 of 72





Page 70 of 72



Test Report Number: BTF-SZ230216R-004

6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freg (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0036	5.56

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