

RF Test Report

For

Applicant Name:

Guangzhou Boju Information Technology Co.,Ltd

Address:

EUT Name:

Brand Name:

Model Number:

Unit L3A01-2 No.31 XiCha Road Baiyun District, Guangzhou 510407 Guangdong CN, Guangzhou 510407, China Mppt Solar charge controller **BougeRv BJ2460N** Series Model Number: Refer to section 2

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Tantou Community, Songgang Street, Bao'an District, Shenzhen,

Issued By

Company Name:

BTF Testing Lab (Shenzhen) Co., Ltd.

Address:

FCC ID: Report Number: Test Standards:

2BBH5-BJ24XXN BTF230925R00101 47 CFR Part 15.247

China

Test Conclusion: Test Date: Date of Issue:

Pass 2023-09-20 to 2023-10-11 2023-10-17

Prepared By:

hris Lin

Date:

Approved By:

Date:

Chris Liu / Project Engineer 2023-10-17

Ryan.CJ / EMC Manager 2023-10-17

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Revision History					
Version Issue Date Revisions Content					
R_V0	2023-10-17	Original			
Note: Once the revision has been made, then previous versions reports are invalid.					



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-				



1 Introduction

1.1 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

1.2 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

1.3 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.

(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.

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(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



2 **Product Information**

2.1 Application Information

	Company Name:	Guangzhou Boju Information Technology Co.,Ltd
CN, Guangzhou 510407, China	Address.	Unit L3A01-2 No.31 XiCha Road Baiyun District, Guangzhou 510407 Guangdong CN, Guangzhou 510407, China

2.2 Manufacturer Information

Company Name:	Guangzhou Boju Information Technology Co.,Ltd
Address:	Unit L3A01-2 No.31 XiCha Road Baiyun District, Guangzhou 510407 Guangdong CN, Guangzhou 510407, China

2.3 Factory Information

Company Name:	Guangzhou Boju Information Technology Co.,Ltd
Address:	Unit L3A01-2 No.31 XiCha Road Baiyun District, Guangzhou 510407 Guangdong CN, Guangzhou 510407, China

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Mppt Solar charge controller
Test Model Number:	BJ2460N
Series Model Number:	BJ2430N, BJ2440N
Description of Model name differentiation:	All models are same with electrical parameters and internal circuit structure, but only differ in model name and appearance. (this information provided by the customer)
Hardware Version	V0.4
Software and Firmware Version	V1.0.0

2.5 Technical Information

Power Supply:	DC 12V from battery	
Operation Frequency:	2402MHz to 2480MHz	
Number of Channels:	40	
Modulation Type:	GFSK	
Antenna Type:	PCB antenna	
Antenna Gain [#] : 2.3dBi		
Note:		
#: The antenna gain provid	ed by the applicant, and the laboratory will not be responsible for the accumulated	

#: The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant. Bluetooth Version: 5.0

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3 **Summary of Test Results**

Test Standards 3.1

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	ainty expressed at approximately

3.3 Summary of Test Result

the 95% confidence level using a coverage factor of k=2.

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)	N/A
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	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 20211026		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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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	2023-03-24	2024-03-23		
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23		
RE Cable	REBES Talent	BES Talent UF1-SMASMAM-1 21101566 20		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		

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POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	1
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Emissions in restricted frequency bands (below 1GHz)						
Equipment	Manufacturer	Model No	Cal Date	Cal Due Date		
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23	
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	/	/	
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	1	/	/	
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23	
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	Manufacturer Model No Inventory No Cal Date					
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23		
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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POSITIONAL CONTROLLER	SKET	PCI-GPIB	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
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27



4.2 Test Auxiliary Equipment

	Title	Manufacturer	Model No.	Serial No.			
	12V Battery	CHILWEE	6-DZF-12.2	/			
4.3 T	4.3 Test Modes						
No.	Test Modes	Description					
TM1	TX mode		ect to AC power line and v ith GFSK modulation.	vorks in continuously			

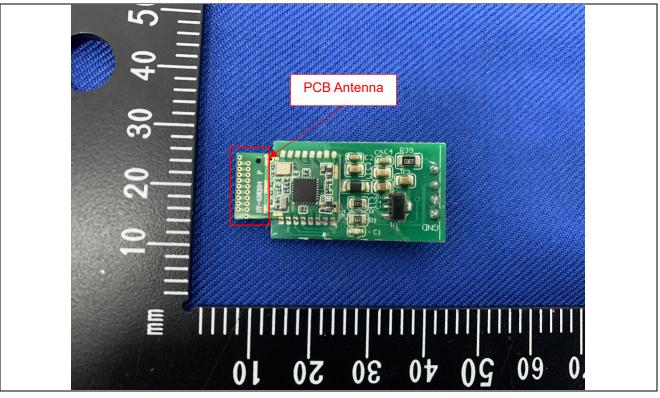


5 **Evaluation Results (Evaluation)**

5.1 Antenna 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
Test Requirement:
                                   this section.
```

5.1.1 Conclusion:



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6 Radio Spectrum Matter Test Results (RF)

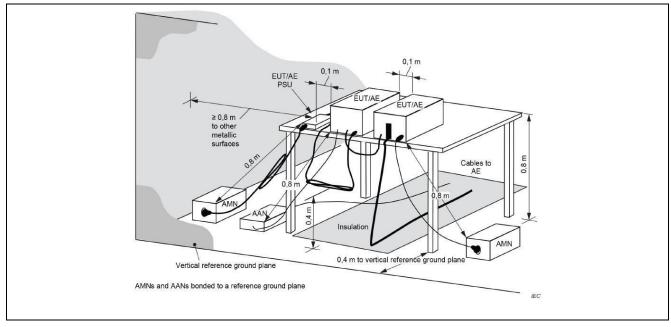
6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
	Frequency of emission (MHz)	Conducted limit (dBµV)	
Test Limit:		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:



6.1.3 Test Data:

Not applicable.

The EUT can't be connected to AC power line, so there is no need to conduct this test item.



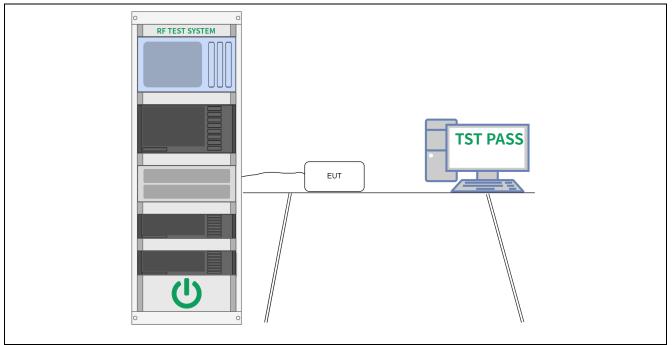
6.2 Occupied Bandwidth

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 × 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:	24.8 °C
Humidity:	46.7 %
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

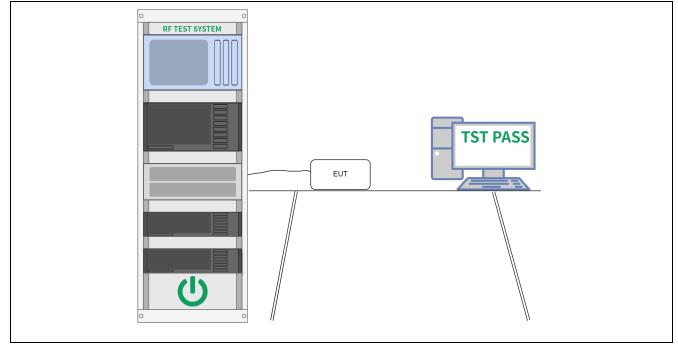
Test Requirement:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output 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:	· · · · · · · · · · · · · · · · · · ·

6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar



6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.



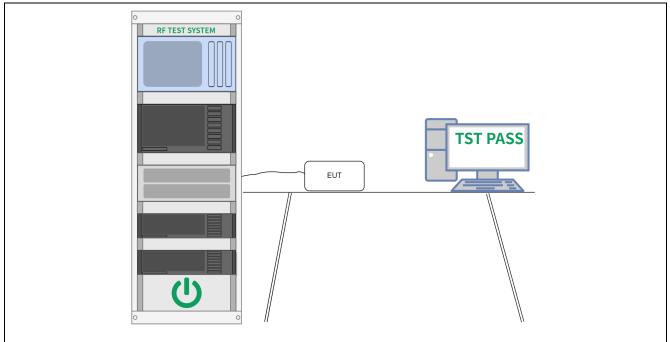
6.4 Power Spectral Density

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:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

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6.5 Emissions in non-restricted frequency bands

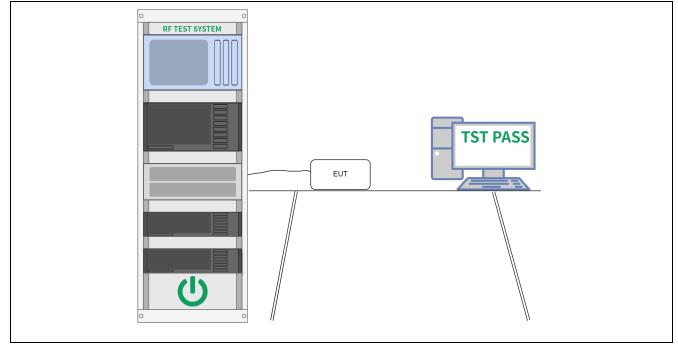
Test Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band 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:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar



6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.



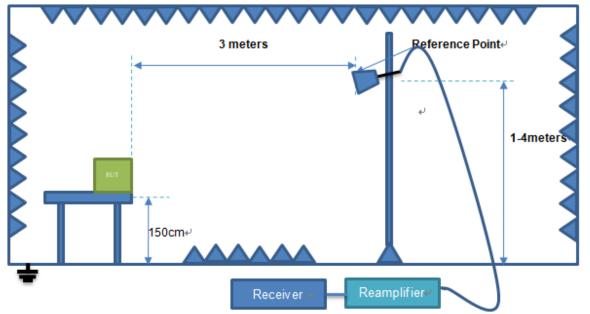
Band edge emissions (Radiated) 6.6

Test Requirement:	In 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 tests		
Test Limit:	radiators operating under 54-72 MHz, 76-88 MHz, 1	Field strength (microvolts/meter) 2400/F(kHz) 24000/F(kHz) 30 100 ** 150 ** 200 ** 500 paragraph (g), fundamental emission this section shall not be located in 74-216 MHz or 470-806 MHz. Ho permitted under other sections of	n the frequency bands wever, operation within
Procedure:	ANSI C63.10-2013 sectio	n 6.6.4	

6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar

6.6.2 Test Setup Diagram:



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6.6.3 Test Data:

Test Mode: GFSK												
Pol.	Freque ncy (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenn a Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margi n (dB)	Detect or Type	Result		
Low Channel: 2402MHz												
Н	2390.00	47.40	29.15	3.41	34.01	45.95	74.00	-28.05	PK	PASS		
Н	2400.00	64.84	29.16	3.43	34.01	63.42	74.00	-10.58	PK	PASS		
V	2390.00	48.38	29.15	3.41	34.01	46.93	74.00	-27.07	PK	PASS		
V	2400.00	67.36	29.16	3.43	34.01	65.94	74.00	-8.06	PK	PASS		
Н	2390.00	36.93	29.15	3.41	34.01	35.48	54.00	-18.52	AV	PASS		
Н	2400.00	48.43	29.16	3.43	34.01	47.01	54.00	-6.99	AV	PASS		
V	2390.00	37.20	29.15	3.41	34.01	35.75	54.00	-18.25	AV	PASS		
V	2400.00	45.51	29.16	3.43	34.01	44.09	54.00	-9.91	AV	PASS		
				High Cl	nannel: 248	0MHz		-				
Н	2483.50	50.04	29.28	3.53	34.03	48.82	74.00	-25.18	PK	PASS		
Н	2500.00	48.35	29.30	3.56	34.03	47.18	74.00	-26.82	PK	PASS		
V	2483.50	51.64	29.28	3.53	34.03	50.42	74.00	-23.58	PK	PASS		
V	2500.00	49.78	29.30	3.56	34.03	48.61	74.00	-25.39	PK	PASS		
Н	2483.50	39.81	29.28	3.53	34.03	38.59	54.00	-15.41	AV	PASS		
Н	2500.00	37.16	29.30	3.56	34.03	35.99	54.00	-18.01	AV	PASS		
V	2483.50	41.40	29.28	3.53	34.03	40.18	54.00	-13.82	AV	PASS		
V												
	Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level -											



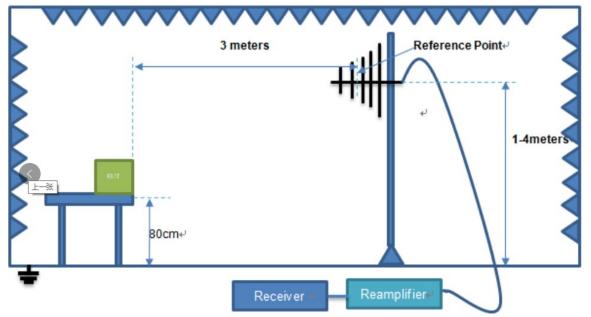
6.7 Emissions in restricted frequency bands (below 1GHz)

Test Requirement:	In 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 tests									
Test Limit:	Frequency (MHz) 0.009-0.490 0.490-1.705 1.705-30.0 30-88 88-216 216-960 Above 960 ** Except as provided in par radiators operating under th 54-72 MHz, 76-88 MHz, 174 these frequency bands is per-	Field strength (microvolts/meter) 2400/F(kHz) 24000/F(kHz) 30 100 ** 150 ** 200 ** 500 ragraph (g), fundamental emission is section shall not be located in t 4-216 MHz or 470-806 MHz. How ermitted under other sections of th	the frequency bands vever, operation within							
Procedure:	§§ 15.231 and 15.241. ANSI C63.10-2013 section	6.6.4								

6.7.1 E.U.T. Operation:

Operating Environment:						
Temperature:	24.8 °C					
Humidity:	46.7 %					
Atmospheric Pressure:	1010 mbar					

6.7.2 Test Setup Diagram:



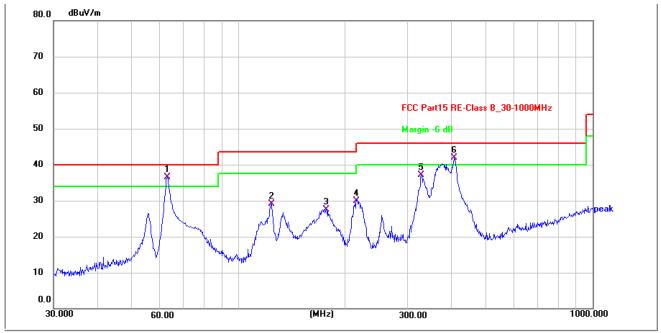
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6.7.3 Test Data:

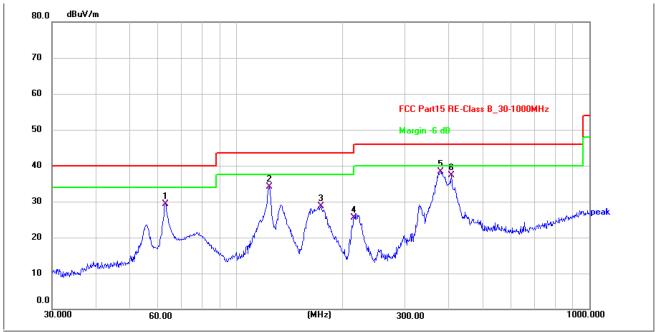
TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	62.8708	51.97	-15.43	36.54	40.00	-3.46	QP	Ρ	
2	123.6985	45.84	-16.66	29.18	43.50	-14.32	QP	Ρ	
3	176.8878	43.91	-16.32	27.59	43.50	-15.91	QP	Р	
4	215.2678	44.15	-14.15	30.00	43.50	-13.50	QP	Р	
5	327.8873	48.30	-11.12	37.18	46.00	-8.82	QP	Ρ	
6!	406.0880	51.58	-9.64	41.94	46.00	-4.06	QP	Ρ	

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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	Remark
1	62.8708	44.71	-15.43	29.28	40.00	-10.72	QP	Ρ	
2	123.6985	50.84	-16.66	34.18	43.50	-9.32	QP	Ρ	
3	173.8135	45.29	-16.54	28.75	43.50	-14.75	QP	Ρ	
4	215.2678	39.81	-14.21	25.60	43.50	-17.90	QP	Ρ	
5 *	378.5843	48.53	-10.14	38.39	46.00	-7.61	QP	Ρ	
6	406.0880	46.99	-9.64	37.35	46.00	-8.65	QP	Ρ	



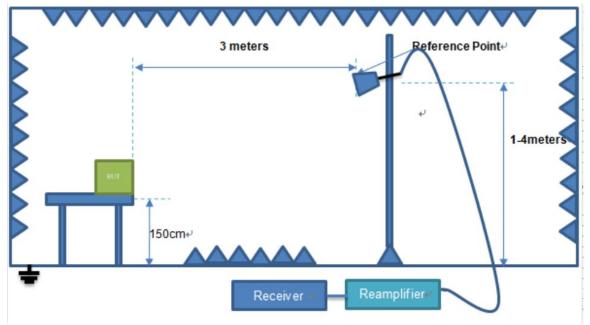
6.8 Emissions in restricted frequency bands (above 1GHz)

Test Requirement:	In 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 tests									
Test Limit:	Frequency (MHz) 0.009-0.490 0.490-1.705 1.705-30.0 30-88 88-216 216-960 Above 960 ** Except as provided in pa radiators operating under th 54-72 MHz, 76-88 MHz, 17	Field strength (microvolts/meter) 2400/F(kHz) 24000/F(kHz) 30 100 ** 150 ** 200 ** 500 ragraph (g), fundamental emission his section shall not be located in t 4-216 MHz or 470-806 MHz. How ormitted under other exercises of the	he frequency bands ever, 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 section	6.6.4								

6.8.1 E.U.T. Operation:

Operating Environment:							
Temperature:	24.8 °C						
Humidity:	46.7 %						
Atmospheric Pressure:	1010 mbar						

6.8.2 Test Setup Diagram:



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6.8.3 Test Data:

Test Mode:	CH00			Tes	Test channel: Lowest						
	Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4804.00	38.42	34.04	6.58	34.09	44.95	74.00	-29.05	V			
7206.00	32.57	37.11	7.73	34.50	42.91	74.00	-31.09	V			
9608.00	32.13	39.31	9.23	34.79	45.88	74.00	-28.12	V			
12010.00	*					74.00		V			
14412.00	*					74.00		V			
4804.00	42.93	34.04	6.58	34.09	49.46	74.00	-24.54	Н			
7206.00	34.42	37.11	7.73	34.50	44.76	74.00	-29.24	Н			
9608.00	31.65	39.31	9.23	34.79	45.40	74.00	-28.60	Н			
12010.00	*					74.00		Н			
14412.00	*					74.00		Н			
			Av	/erage Valu	le						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4804.00	27.02	34.04	6.58	34.09	33.55	54.00	-20.45	V			
7206.00	21.13	37.11	7.73	34.50	31.47	54.00	-22.53	V			
9608.00	20.14	39.31	9.23	34.79	33.89	54.00	-20.11	V			
12010.00	*					54.00		V			
14412.00	*					54.00		V			
4804.00	31.37	34.04	6.58	34.09	37.90	54.00	-16.10	Н			
7206.00	23.37	37.11	7.73	34.50	33.71	54.00	-20.29	Н			
9608.00	19.96	39.31	9.23	34.79	33.71	54.00	-20.29	Н			
12010.00	*					54.00		Н			
14412.00	*					54.00		Н			



Test Results (1GHz-25GHz)

Test Mode:	CH19			Test	Test channel: Middle						
Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4880.00	37.19	34.38	6.69	34.09	44.17	74.00	-29.83	V			
7320.00	31.75	37.22	7.78	34.53	42.22	74.00	-31.78	V			
9760.00	31.40	39.46	9.35	34.80	45.41	74.00	-28.59	V			
12200.00	*					74.00		V			
14640.00	*					74.00		V			
4880.00	41.45	34.38	6.69	34.09	48.43	74.00	-25.57	Н			
7320.00	33.50	37.22	7.78	34.53	43.97	74.00	-30.03	Н			
9760.00	30.81	39.46	9.35	34.80	44.82	74.00	-29.18	Н			
12200.00	*					74.00		Н			
14640.00	*					74.00		Н			
			Av	/erage Valu	е						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4880.00	26.04	34.38	6.69	34.09	33.02	54.00	-20.98	V			
7320.00	20.46	37.22	7.78	34.53	30.93	54.00	-23.07	V			
9760.00	19.54	39.46	9.35	34.80	33.55	54.00	-20.45	V			
12200.00	*					54.00		V			
14640.00	*					54.00		V			
4880.00	30.25	34.38	6.69	34.09	37.23	54.00	-16.77	Н			
7320.00	22.63	37.22	7.78	34.53	33.10	54.00	-20.90	Н			
9760.00	19.27	39.46	9.35	34.80	33.28	54.00	-20.72	Н			
12200.00	*					54.00		Н			
14640.00	*					54.00		Н			



Test Results (1GHz-25GHz)

Test Mode:				Test	Test channel: Highest						
	Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4960.00	36.82	34.72	6.79	34.09	44.24	74.00	-29.76	V			
7440.00	31.51	37.34	7.82	34.57	42.10	74.00	-31.90	V			
9920.00	31.18	39.62	9.46	34.81	45.45	74.00	-28.55	V			
12400.00	*					74.00		V			
14880.00	*					74.00		V			
4960.00	41.01	34.72	6.79	34.09	48.43	74.00	-25.57	Н			
7440.00	33.22	37.34	7.82	34.57	43.81	74.00	-30.19	Н			
9920.00	30.56	39.62	9.46	34.81	44.83	74.00	-29.17	Н			
12400.00	*					74.00		Н			
14880.00	*					74.00		Н			
			A۱	/erage Valu	e						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4960.00	25.80	34.72	6.79	34.09	33.22	54.00	-20.78	V			
7440.00	20.30	37.34	7.82	34.57	30.89	54.00	-23.11	V			
9920.00	19.40	39.62	9.46	34.81	33.67	54.00	-20.33	V			
12400.00	*					54.00		V			
14880.00	*					54.00		V			
4960.00	29.98	34.72	6.79	34.09	37.40	54.00	-16.60	Н			
7440.00	22.45	37.34	7.82	34.57	33.04	54.00	-20.96	Н			
9920.00	19.10	39.62	9.46	34.81	33.37	54.00	-20.63	Н			
12400.00	*					54.00		Н			
14880.00	*					54.00		Н			

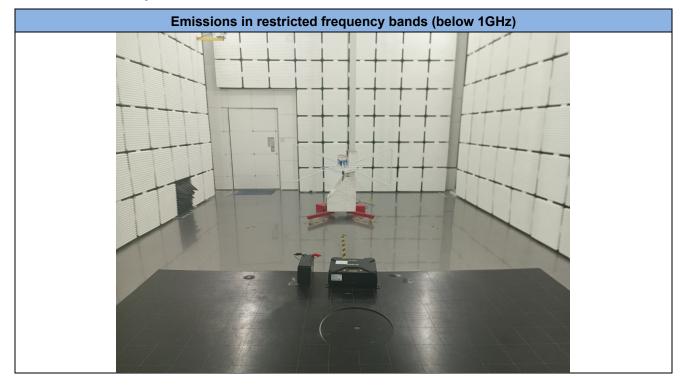
Remark:

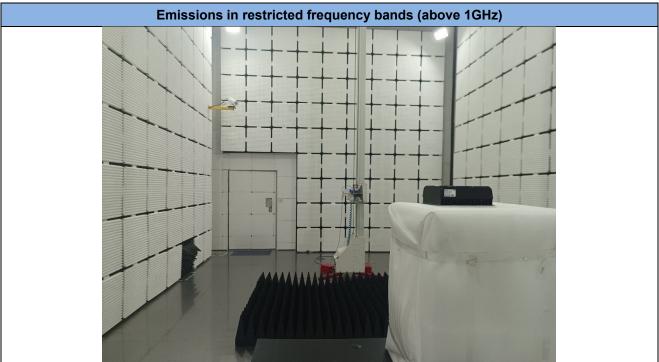
1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



7 Test Setup Photos



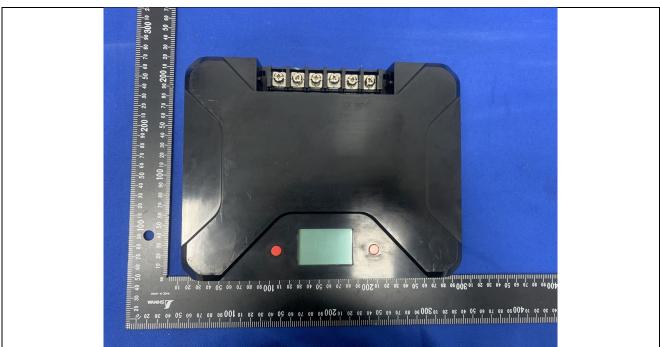


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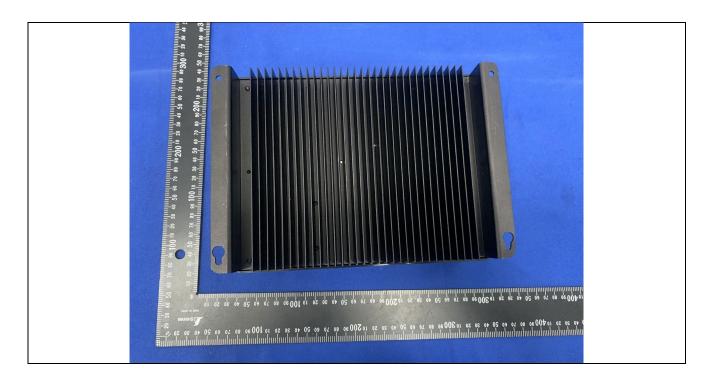


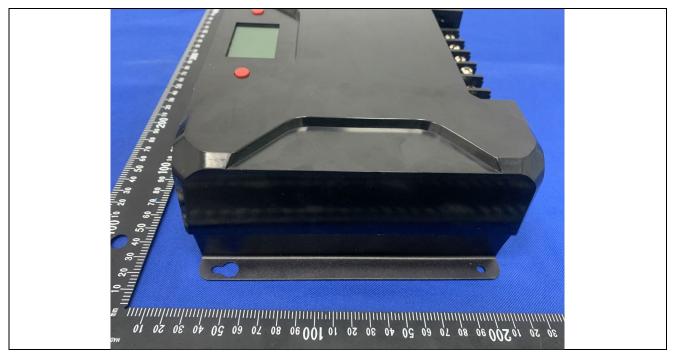
EUT Constructional Details (EUT Photos) 8



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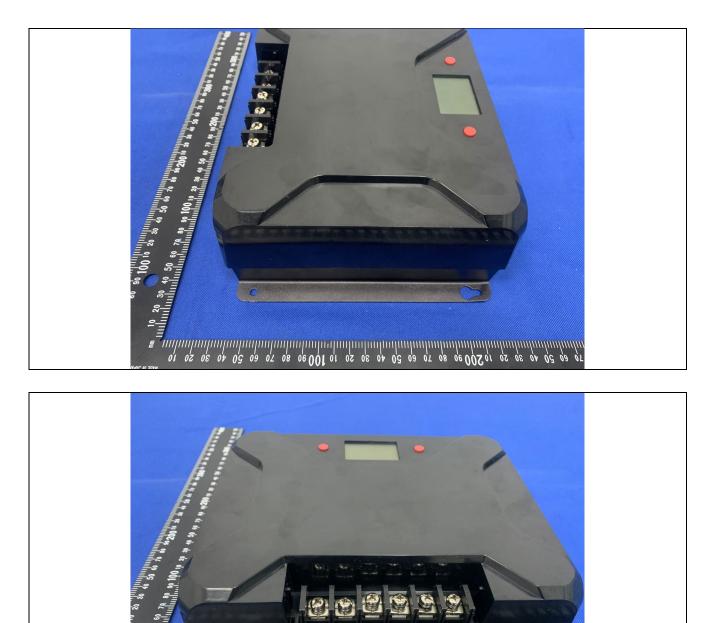




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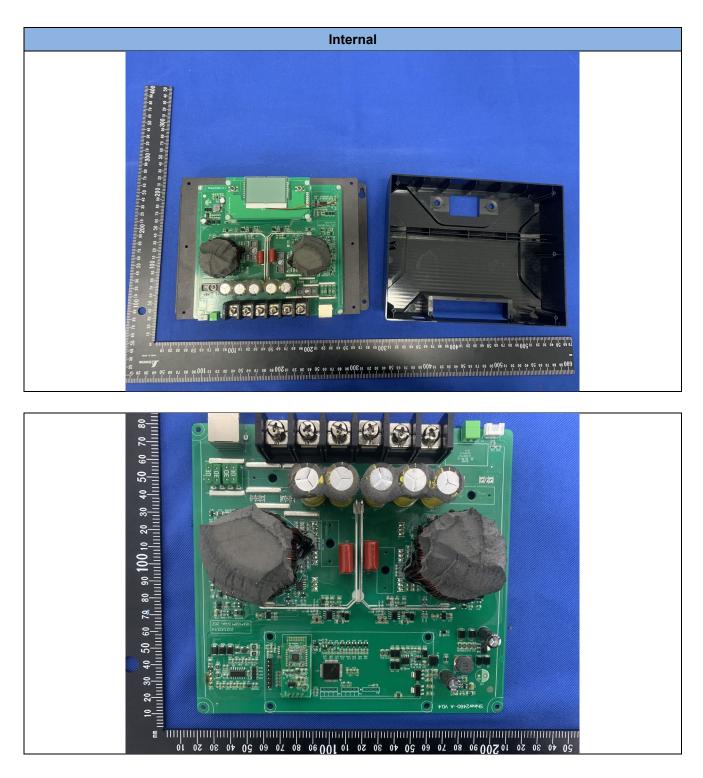




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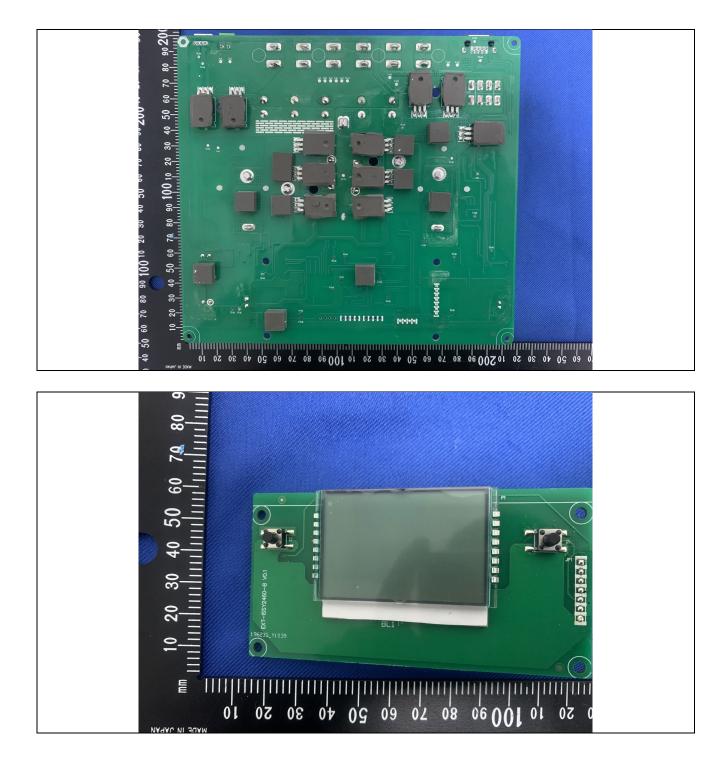




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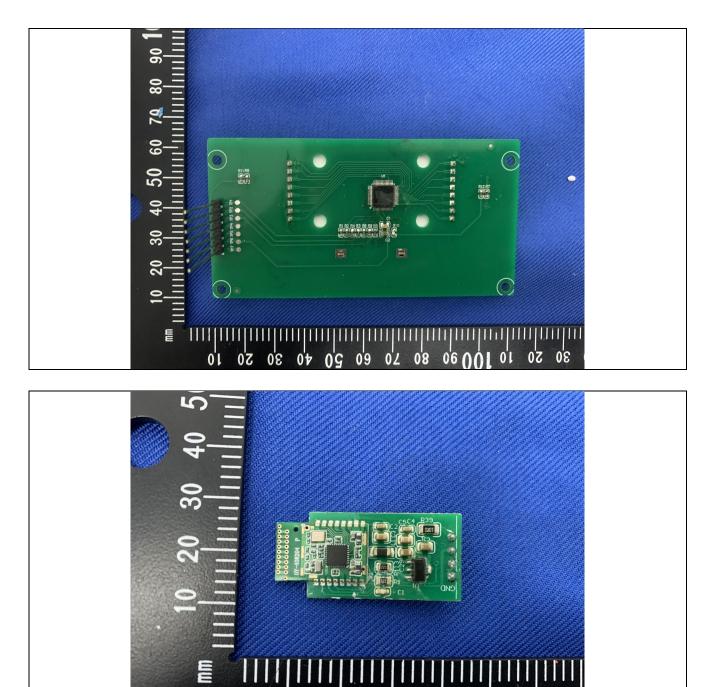




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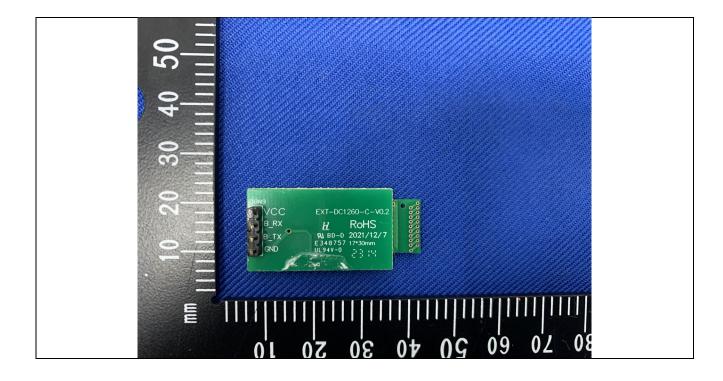




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Test Report Number: BTF230925R00101

Appendix

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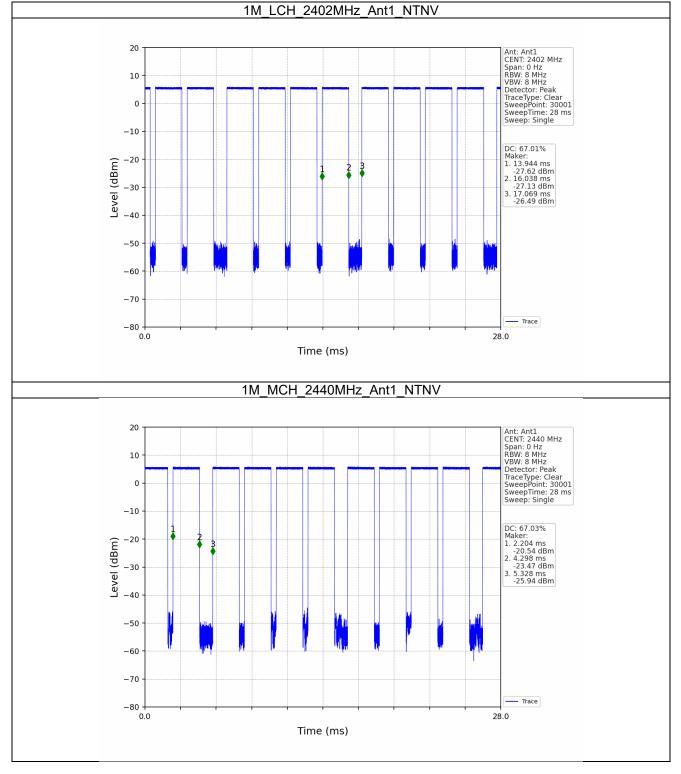
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1. Duty Cycle 1.1 Ant1 1.1.1 Test Result

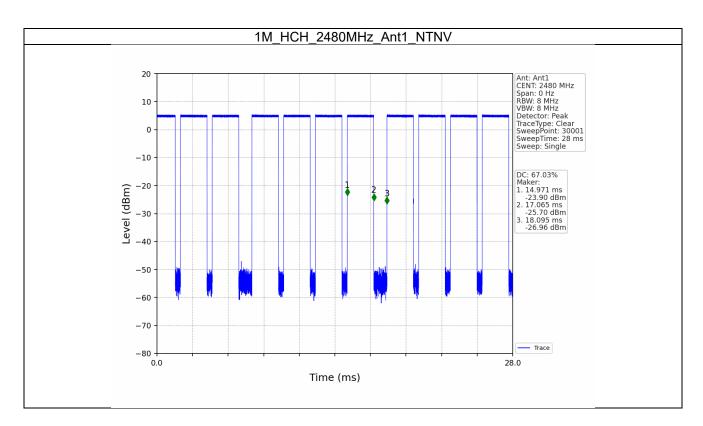
Ant1								
Mada	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC	
Mode	Туре	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)	
1M	SISO	2402	2.094	3.125	67.01	1.74	16.78	
		2440	2.094	3.124	67.03	1.74	16.78	
		2480	2.094	3.124	67.03	1.74	16.78	





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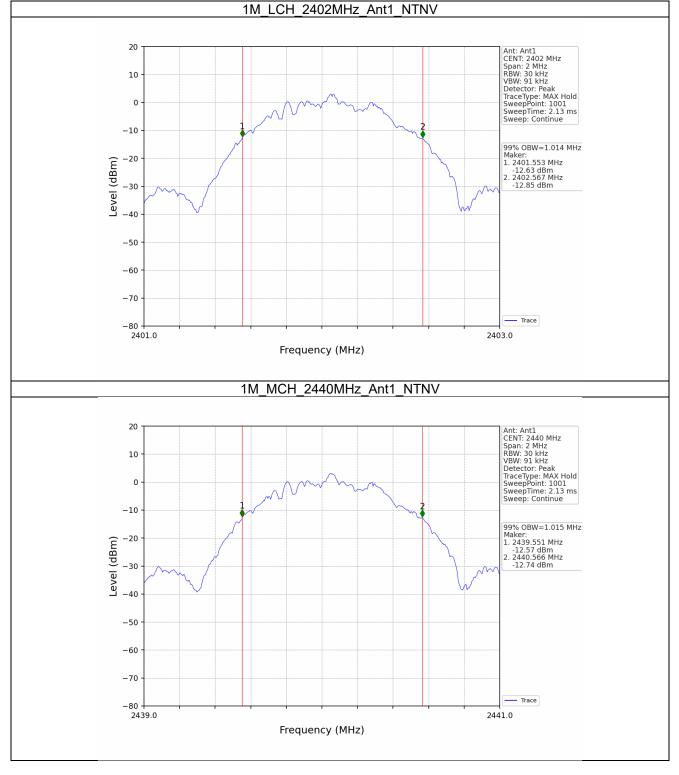


2. Bandwidth

2.1 OBW

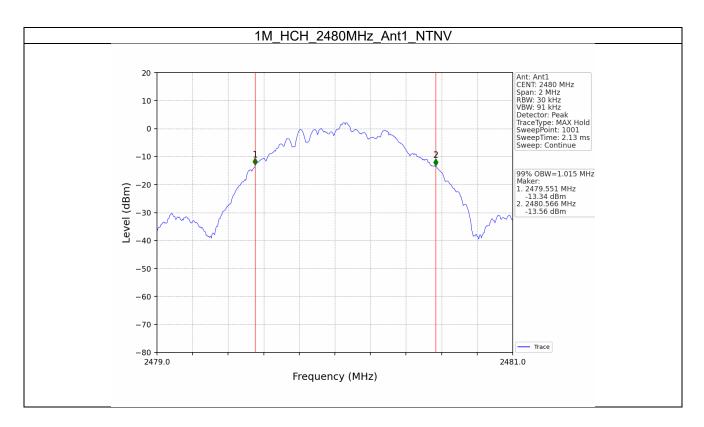
Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)	Verdict
Mode	Туре	(MHz)		Result	Veruici
		2402	1	1.014	Pass
1M	SISO	2440	1	1.015	Pass
		2480	1	1.015	Pass





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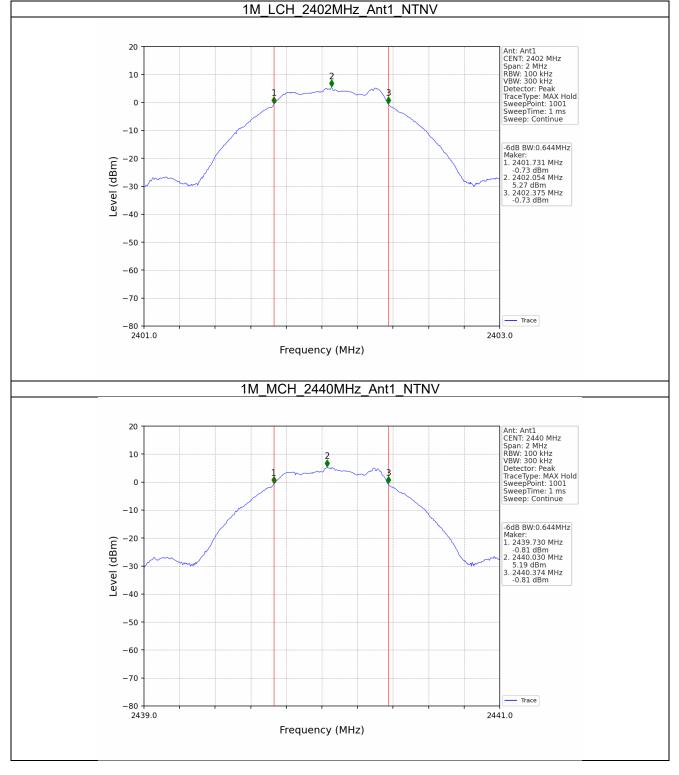




2.2 6dB BW

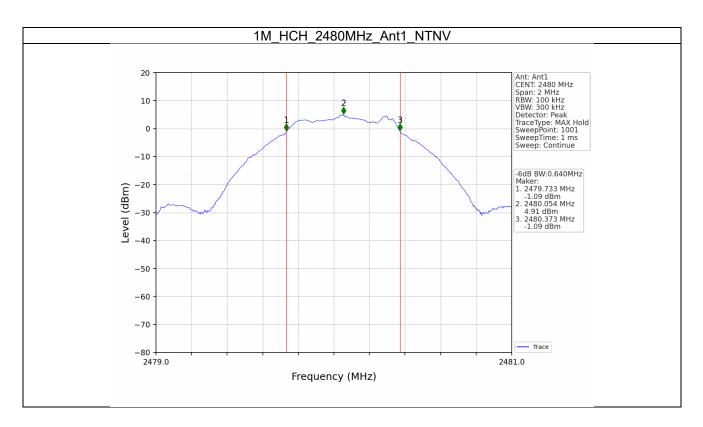
Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)		Verdict
Mode	Туре	(MHz)		Result	Limit	verdict
		2402	1	0.644	>=0.5	Pass
1M	SISO	2440	1	0.644	>=0.5	Pass
		2480	1	0.640	>=0.5	Pass





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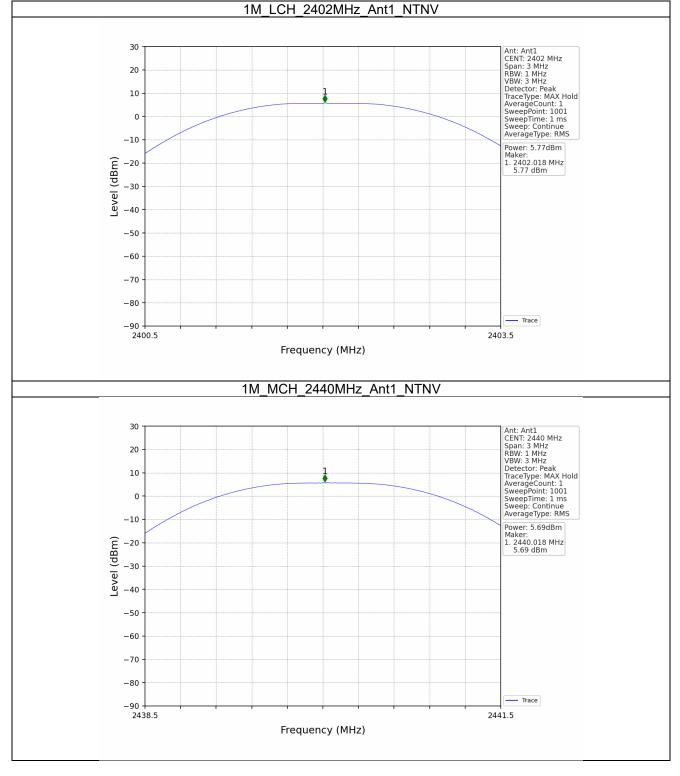


3. Maximum Conducted Output Power

3.1 Power

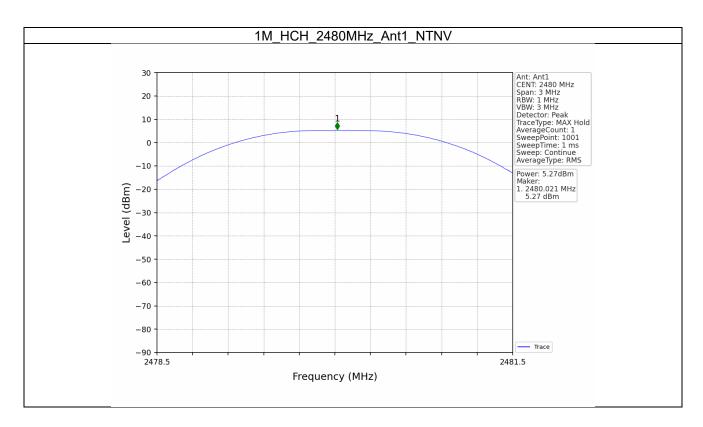
Mode	TX	Frequency Maximum Peak Conducted Output Power (dBm)		Verdict	
Widde	Туре	(MHz)	ANT1	Limit	Verdici
	SISO	2402	5.77	<=30	Pass
1M		2440	5.69	<=30	Pass
		2480	5.27	<=30	Pass





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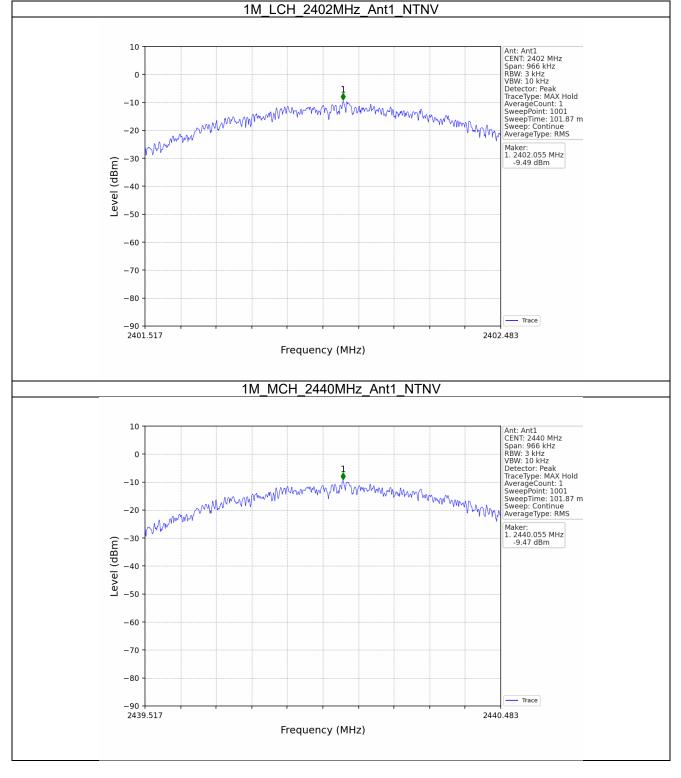


4. Maximum Power Spectral Density

4.1 PSD

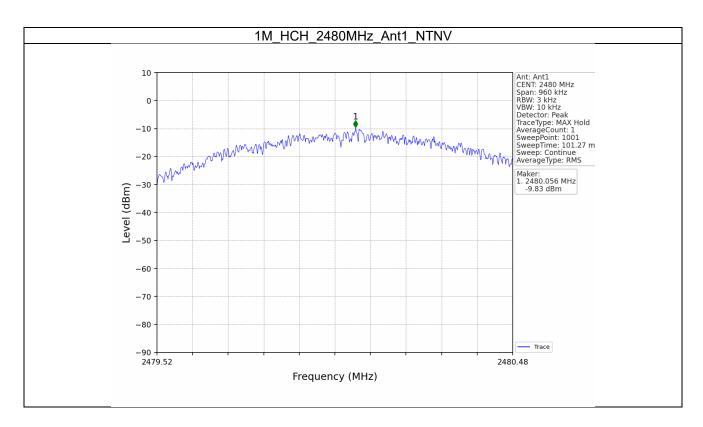
Mode	TX	Frequency	Maximum PS	Verdict	
Mode	Туре	(MHz)	ANT1	Limit	Veruici
		2402	2402 -9.49		Pass
1M	SISO	2440 -9.47	<=8	Pass	
		2480	-9.83	<=8	Pass





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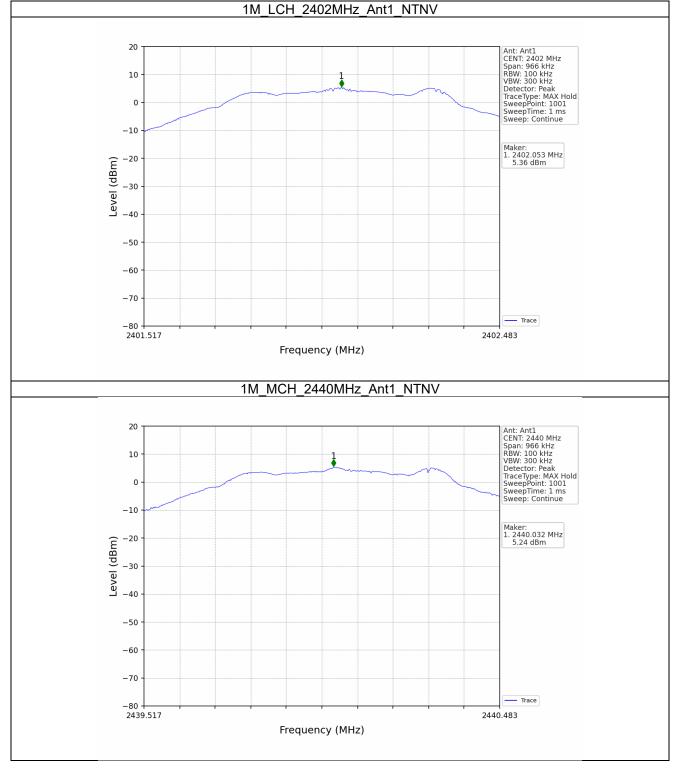


5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

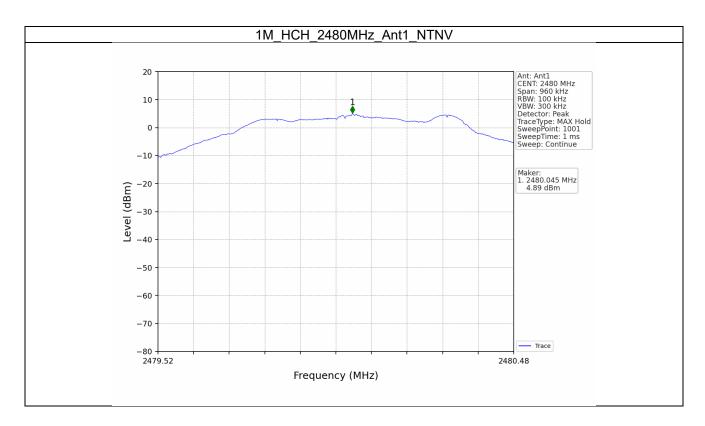
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)		
		2402	1	5.36		
1M	SISO	2440	1	5.24		
		2480	1	4.89		
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level						
was used to establish the reference level.						





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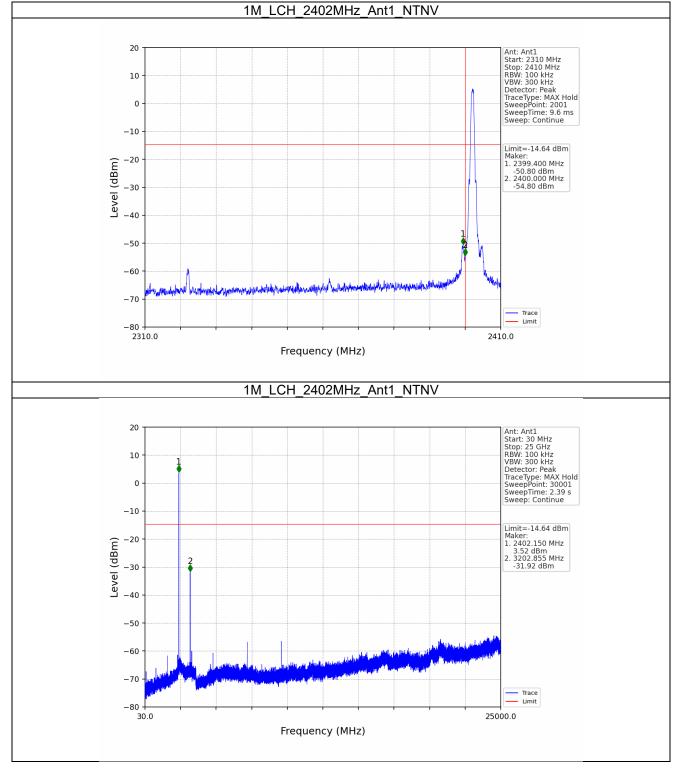




5.2 CSE

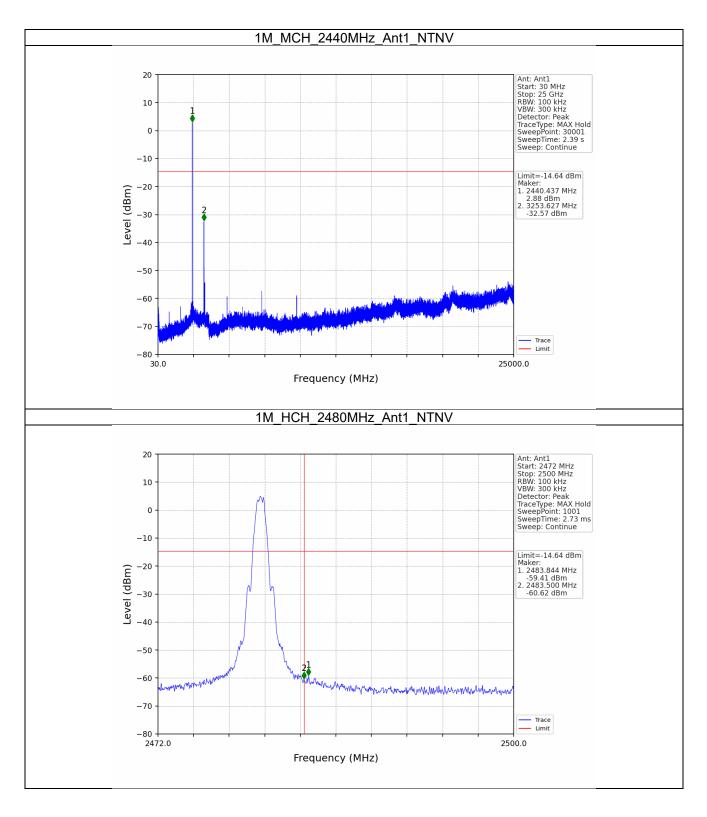
Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict			
		2402	1	5.36	-14.64	Pass			
1M	SISO	2440	1	5.36	-14.64	Pass			
		2480	1	5.36	-14.64	Pass			
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level									
was used to	was used to establish the reference level.								





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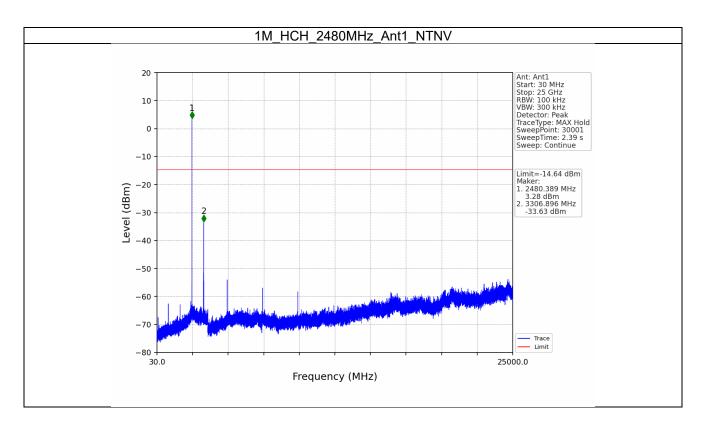




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