

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 FG8

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: FCC ID: **Test Conclusion:** Test Date: Date of Issue:

BTF240220R00101 47 CFR Part 15.247 2AN4X-FG8 Pass 2024-02-21 to 2024-03-12 2024-03-13

Prepared By:

Date:

Approved By:

Date:

Gavin Lu b (Shenzh Gavin Cui / Project Engineer 2024-03-13 Ryan.CJ / EMC Manager 2024-03-13

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Revision History			
Version	Issue Date	Revisions Content	
R_V0	2024-03-13	Original	-

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



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APF				



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.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(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: SHENZHEN RANVOO DIGITAL TECHNOLOGY CO., LTD.		
Address: RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minz 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)

EUT Name:	Wearable Smart Air Conditioner
Test Model Number:	FG8
Hardware Version:	V0.2.,20240123
Software Version:	V001.000.000

2.5 Technical Information

Power Supply:	DC 3.7V From Battery		
Operation Frequency:	2402MHz to 2480MHz	 	
Number of Channels:	40		
Modulation Type:	GFSK		
Antenna Type:	PCB Antenna		
Antenna Gain [#] :	2.56dBi		
Note:			

Note:

#: 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.



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
Occupied Bandwidth	±69kHz
Transmitter Power, Conducted	±0.87dB
Power Spectral Density	±0.69dB
Conducted Spurious Emissions	±0.95dB
Radiated Spurious Emissions (above 1GHz)	1-6GHz: ±3.94dB 6-18GHz: ±4.16dB
Radiated Spurious Emissions (30M - 1GHz)	±4.12dB

The following measurement uncertainty levels have been estimated for tests 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	47 CFR 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), 15.209, 15.205	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass

4 Test Configuration

4.1 Test Equipment List

Conducted Emission at AC power line							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	/	/		
Coaxial Switcher	SCHWARZBECK	CX210	CX210	/	/		
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15		
LISN	AFJ	LS16/110VAC	16010020076	2023-11-26	2024-11-15		
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2023-11-15	2024-11-14		

Occupied Bandwidth Maximum Conducted Output Power Power Spectral Density 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	/	/	/	
RF Sensor Unit	Techy	TR1029-2	/	/	/	
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15	
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	/	1	
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023-11-16	2024-11-15	
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2023-11-16	2024-11-15	



Band edge emissions	(Radiated)				
Emissions in frequen	cy bands (below 1				
Emissions in frequen Equipment	cy bands (above 1 Manufacturer	GHz) 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	1	/
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	/	1
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	/	/
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	/	/
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	/	/
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-13	2024-11-12
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	/	/
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	2023-11-13	2024-11-12



4.2 Test Auxiliary Equipment

	Title	Manufacturer	Model No.	Serial No.				
	ASUS Book	ASUSTeK COMPUTER INC.	PC-20220719NFJR	1				
4.3 T	est 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:	Refer to 47 CFR Part 15.203, 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.



6 Radio Spectrum Matter Test Results (RF)

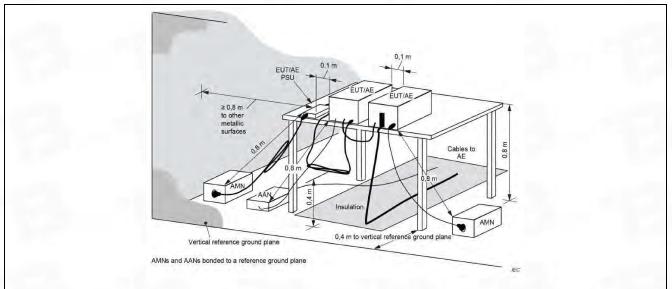
6.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), 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:	ANSI C63.10-2013 section 6.2 ANSI C63.10-2020 section 6.2					
Test Limit:	Frequency of emission (MHz) 0.15-0.5 0.5-5 5-30 *Decreases with the logarithm of th	Conducted limit (df Quasi-peak 66 to 56* 56 60 he frequency.	Average 56 to 46* 46 50			
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices					

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.3 °C
Humidity:	54.1 %
Atmospheric Pressure:	1010 mbar

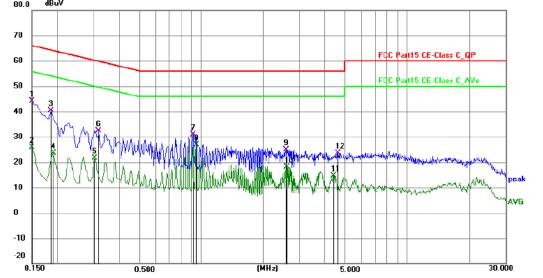
6.1.2 Test Setup Diagram:





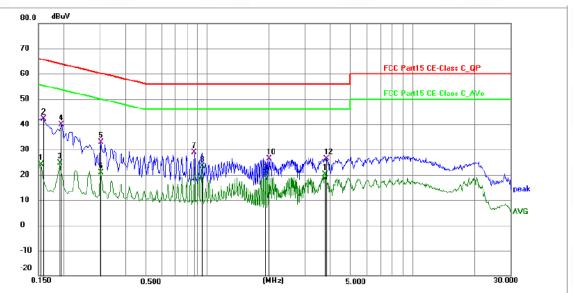
6.1.3 Test Data:

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	33.65	10.45	44.10	66.00	-21.90	QP	Р	
2	0.1500	15.37	10.45	25.82	56.00	-30.18	AVG	Р	
3	0.1860	29.94	10.53	40.47	64.21	-23.74	QP	Р	
4	0.1905	13.21	10.54	23.75	54.01	-30.26	AVG	Р	
5	0.3030	11.09	10.57	21.66	50.16	-28.50	AVG	Р	
6	0.3165	21.85	10.57	32.42	59.80	-27.38	QP	Р	
7	0.9105	20.27	10.67	30.94	56.00	-25.06	QP	Р	
8 *	0.9465	16.25	10.67	26.92	46.00	-19.08	AVG	Р	
9	2.5710	14.12	10.67	24.79	56.00	-31.21	QP	Р	
10	2.6070	7.34	10.67	18.01	46.00	-27.99	AVG	Р	
11	4.3845	4.05	10.70	14.75	46.00	-31.25	AVG	Р	
12	4.6140	12.87	10.71	23.58	56.00	-32.42	QP	Р	





TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	13.74	10.46	24.20	55.75	-31.55	AVG	Р	
2	0.1590	31.68	10.47	42.15	65.52	-23.37	QP	Р	
3	0.1905	13.99	10.54	24.53	54.01	-29.48	AVG	Р	
4	0.1949	29.40	10.55	39.95	63.83	-23.88	QP	Р	
5	0.3030	22.40	10.57	32.97	60.16	-27.19	QP	Р	
6	0.3030	10.23	10.57	20.80	50.16	-29.36	AVG	Р	
7	0.8655	18.09	10.68	28.77	56.00	-27.23	QP	Р	
8 *	0.9465	12.83	10.67	23.50	46.00	-22.50	AVG	Р	
9	1.9275	9.46	10.68	20.14	46.00	-25.86	AVG	Р	
10	2.0040	15.80	10.68	26.48	56.00	-29.52	QP	Р	
11	3.7410	9.40	10.65	20.05	46.00	-25.95	AVG	Р	
12	3.8175	15.62	10.66	26.28	56.00	-29.72	QP	Р	



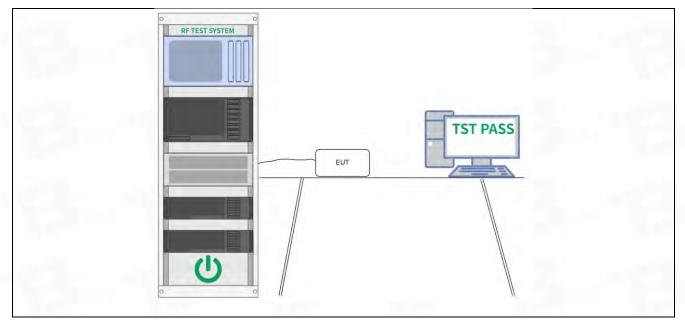
6.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
	ANSI C63.10-2013, section 11.8
Test Method:	ANSI C63.10-2020, section 11.8
	KDB 558074 D01 15.247 Meas Guidance v05r02
	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may
Test Limit:	operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB
	bandwidth shall be at least 500 kHz.
	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.
	11.8.1 Option 1
	The steps for the first option are as follows:
	a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100
	kHz.
	b) Set the VBW ≥ [3 × RBW].
Procedure:	c) Detector = peak.
Trocedure.	d) Trace mode = max-hold.
	e) Sweep = No faster than coupled (auto) time.
	f) Allow the trace to stabilize.
	g) Measure the maximum width of the emission by placing two markers, one at the
	lowest frequency and the other at the highest frequency of the envelope of the
	spectral display, such that each marker is at or slightly below the "-6 dB down
	amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.
	as close as possible to this value.
	11.8.2 Option 2
	The automatic bandwidth measurement capability of an instrument may be
	employed using the X dB bandwidth mode with X set to 6 dB, if the functionality
	described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with
	maximum hold) is implemented by the instrumentation function.
	When using this capability, care shall be taken so that the bandwidth measurement
	is not influenced by any intermediate power nulls in the fundamental emission that
	might be ≥ 6 dB.
621 EUT Operation:	

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.3 °C	1.101		1.111.0	
Humidity:	54.1 %				
Atmospheric Pressure:	1010 mbar				
6.2.2 Test Setup Diagram:					





6.2.3 Test Data: Please Refer to Appendix for Details.



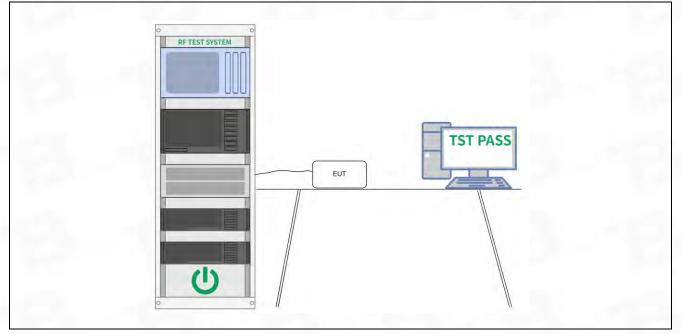
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Method:	ANSI C63.10-2013, section 11.9.1 ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(b)(3), 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 ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

6.3.1 E.U.T. Operation:

Operating Environment:				
Temperature:	25.3 °C	10.00		
Humidity:	54.1 %		10 C	
Atmospheric Pressure:	1010 mbar	A channel of		

6.3.2 Test Setup Diagram:



6.3.3 Test Data: Please Refer to Appendix for Details.



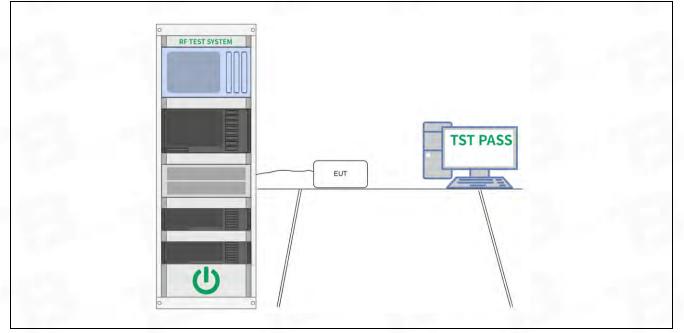
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Method:	ANSI C63.10-2013, section 11.10 ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247 (e), 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.
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.3 °C
Humidity:	54.1 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data: Please Refer to Appendix for Details.



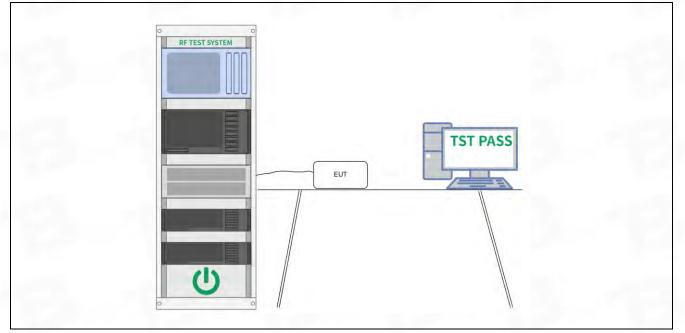
6.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
	ANSI C63.10-2013 section 11.11
Test Method:	ANSI C63.10-2020 section 11.11
	KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(d), 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.
	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3
Procedure:	
	ANSI C63.10-2020
	Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.3 °C		
Humidity:	54.1 %		
Atmospheric Pressure:	1010 mbar	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.



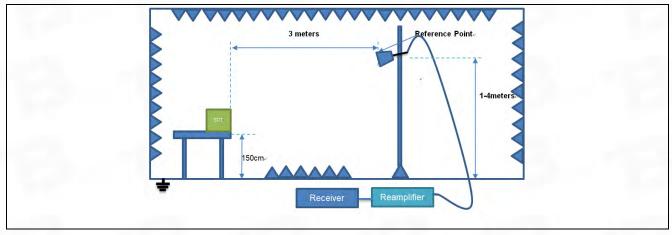
6.6 Band edge emissions (Radiated)

		Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the						
Test Requirement:	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)).`							
	ANSI C63.10-2013 section 6.10							
Test Method:	ANSI C63.10-2013 secti ANSI C63.10-2020 secti							
rest method.		7 Meas Guidance v05r02						
	Frequency (MHz)	Field strength	Measurement					
		(microvolts/meter)	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					
	88-216	150 **	3					
	216-960	200 **	3					
Test Limit:	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.							
	In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.							
Procedure:	ANSI C63.10-2013 sect	on 6.10.5.2	100					
	ANSI C63.10-2020 secti	on 6.10.5.2						

6.6.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24 °C		
Humidity:	50 %		
Atmospheric Pressure:	1010 mbar		

6.6.2 Test Setup Diagram:





6.6.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / 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	64.59	-30.59	34.00	74.00	-40.00	peak	Р
2 *	2390.000	64.96	-30.49	34.47	74.00	-39.53	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / 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	64.59	-30.59	34.00	74.00	-40.00	peak	Р
2 *	2390.000	65.07	-30.49	34.58	74.00	-39.42	peak	Р

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / 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	65.57	-30.39	35.18	74.00	-38.82	peak	Р
2	2500.000	64.72	-30.37	34.35	74.00	-39.65	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / 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	65.75	-30.39	35.36	74.00	-38.64	peak	Р
2	2500.000	65.11	-30.37	34.74	74.00	-39.26	peak	Р



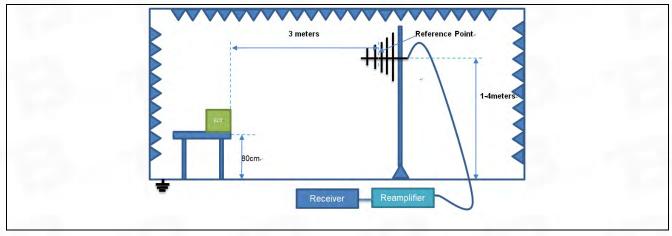
6.7 Emissions in frequency bands (below 1GHz)

Test Dequirement	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated							
Test Requirement:	emission limits specified in § 15.209(a)(see § 15.205(c)).							
		ANSI C63.10-2013 section 6.6.4						
Test Method:	ANSI C63.10-2020 secti							
	KDB 558074 D01 15.24	7 Meas Guidance v05r02						
	Frequency (MHz)	Field strength	Measurement					
		(microvolts/meter)	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					
	88-216	150 **	3					
	216-960	200 **	3					
Test Limit:	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.							
	In the emission table above, the tighter limit applies at the band edges.							
	The emission limits shown in the above table are based on measurements							
	employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz,							
	110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands							
		ients employing an average det	ector.					
Due e e dume :	ANSI C63.10-2013 sect	on 6.6.4						
Procedure:	ANSI C63.10-2020 secti	on 6.6.4						

6.7.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24 °C		
Humidity:	50 %		
Atmospheric Pressure:	1010 mbar		

6.7.2 Test Setup Diagram:

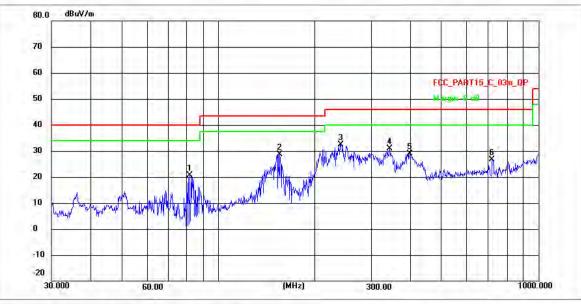


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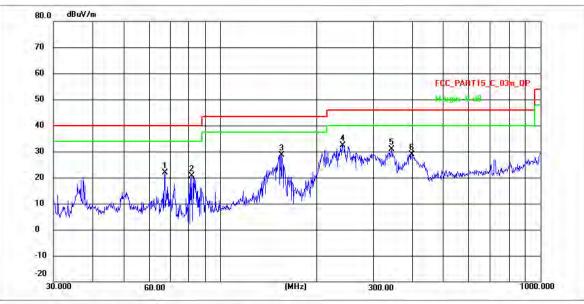
6.7.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	81.4970	38.49	-17.83	20.66	40.00	-19.34	peak	Р
2	155.6370	44.40	-15.76	28.64	43.50	-14.86	peak	Р
3 *	240.8304	48.74	-16.27	32.47	46.00	-13.53	peak	Р
4	343.1800	46.77	-15.96	30.81	46.00	-15.19	peak	P
5	396.2415	43.32	-14.56	28.76	46.00	-17.24	peak	Р
6	719.1995	50.26	-23.65	26.61	46.00	-19.39	peak	Р





TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	66.8496	42.03	-20.04	21.99	40.00	-18.01	peak	Р
2	81.4970	39.94	-19.28	20.66	40.00	-19.34	peak	Р
3	155.6370	43.04	-14.40	28.64	43.50	-14.86	peak	Р
4 *	240.8304	46.69	-14.22	32.47	46.00	-13.53	peak	P
5	343.1800	42.77	-11.96	30.81	46.00	-15.19	peak.	Р
6	396.2415	43.22	-14.46	28.76	46.00	-17.24	peak	Р



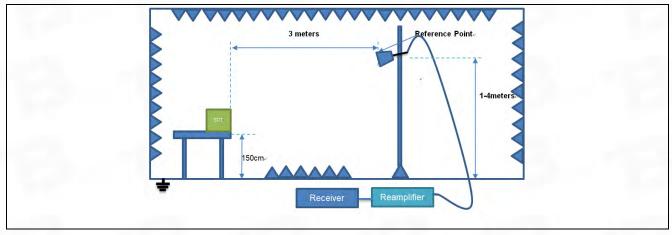
6.8 Emissions in frequency bands (above 1GHz)

		ssions which fall in the restricted							
Test Requirement:		mply with the radiated emission	limits specified in §						
	15.209(a)(see § 15.205(c)).`								
Takkada	ANSI C63.10-2013 section 6.6.4								
Test Method:	ANSI C63.10-2020 secti								
	KDB 558074 D01 15.247 Meas Guidance v05r02								
	Frequency (MHz)	Field strength	Measurement						
		(microvolts/meter)	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						
	88-216	150 **	3						
	216-960	200 **	3						
Test Limit:	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.								
	In the emission table ab	In the emission table above, the tighter limit applies at the band edges.							
	The emission limits show	The emission limits shown in the above table are based on measurements							
		employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz,							
	110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands								
	are based on measurem	ents employing an average det	ector.						
	ANSI C63.10-2013 secti	on 6.6.4							
Procedure:									
	ANSI C63.10-2020 secti	on 6.6.4							

6.8.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24 °C		
Humidity:	50 %		
Atmospheric Pressure:	1010 mbar		

6.8.2 Test Setup Diagram:



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6.8.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4881.092	65.77	-27.70	38.07	74.00	-35.93	peak	Р
2	9775.950	72.44	-23.80	48.64	74.00	-25.36	peak	Р
3	11861.420	69.47	-22.44	47.03	74.00	-26.97	peak	Р
4	13450.581	71.41	-21.00	50.41	74.00	-23.59	peak	Р
5	14370.993	72.42	-21.17	51.25	74.00	-22.75	peak	Р
6 *	17624.184	67.99	-16.46	51.53	74.00	-22.47	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4881.092	62.77	-27.70	35.07	74.00	-38.93	peak	Р
2	7265.114	62.65	-24.85	37.80	74.00	-36.20	peak	Р
3	9775.950	70.94	-23.80	47.14	74.00	-26.86	peak	Р
4	13450.581	69.91	-21.00	48.91	74.00	-25.09	peak	Р
5	14370.993	70.92	-21.17	49.75	74.00	-24.25	peak	Р
6 *	17875.568	67.01	-16.72	50.29	74.00	-23.71	peak	Р

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5906.972	62.19	-25.63	36.56	74.00	-37.44	peak	Р
2	8010.704	65.76	-25.53	40.23	74.00	-33.77	peak	Р
3	9674.755	67.71	-23.58	44.13	74.00	-29.87	peak	Р
4	11793.050	67.42	-22.55	44.87	74.00	-29.13	peak	Р
5	15199.842	69.81	-20.84	48.97	74.00	-25.03	peak	Р
6 *	17974.005	68.48	-16.83	51.65	74.00	-22.35	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	6175.842	61.05	-25.35	35.70	74.00	-38.30	peak	Р
2	7882.086	64.68	-25.36	39.32	74.00	-34.68	peak	Р
3	9258.909	65.72	-23.73	41.99	74.00	-32.01	peak	Р
4	11302.477	67.58	-23.21	44.37	74.00	-29.63	peak	Р
5 *	13757.267	70.04	-21.03	49.01	74.00	-24.99	peak	Р
6	15813.802	69.78	-21.56	48.22	74.00	-25.78	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	6926.765	61.88	-24.99	36.89	74.00	-37.11	peak	Р
2	8059.475	65.03	-25.51	39.52	74.00	-34.48	peak	Р
3	10649.152	69.05	-24.19	44.86	74.00	-29.14	peak	Р
4	11793.050	69.92	-22.55	47.37	74.00	-26.63	peak	Р
5	13797.088	69.86	-21.04	48.82	74.00	-25.18	peak	Р
6 *	16137.015	71.89	-20.93	50.96	74.00	-23.04	peak	Р

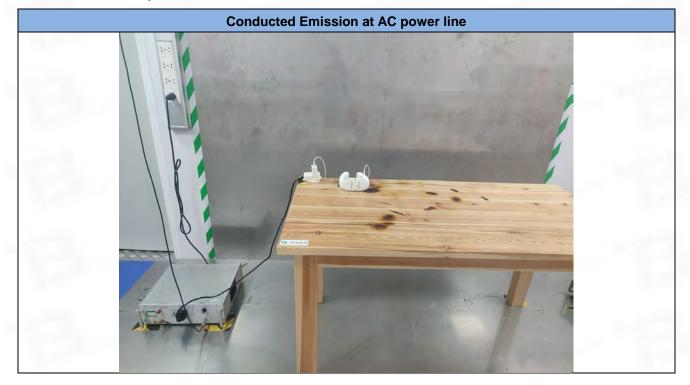
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4869.818	60.33	-27.74	32.59	74.00	-41.41	peak	Р
2	7068.339	60.52	-24.91	35.61	74.00	-38.39	peak	Р
3	8889.155	64.11	-24.54	39.57	74.00	-34.43	peak	Р
4	10866.806	67.77	-23.72	44.05	74.00	-29.95	peak	Р
5	14445.955	69.04	-21.19	47.85	74.00	-26.15	peak	Р
6 *	17624.184	66.99	-16.46	50.53	74.00	-23.47	peak	Р



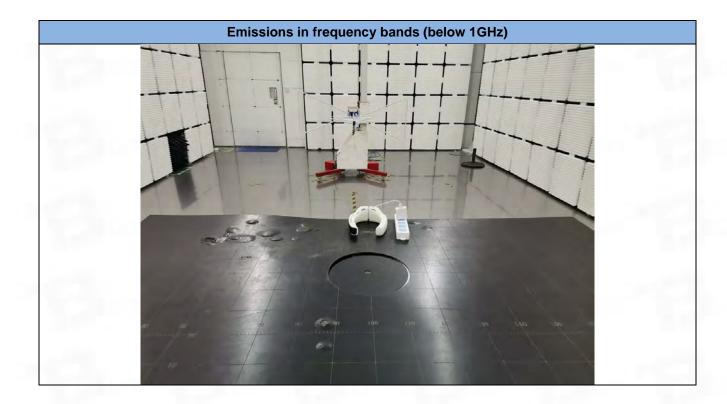
7 Test Setup Photos



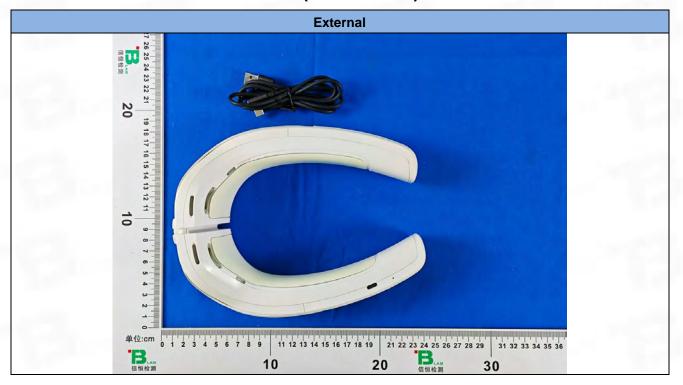
Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)

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8 EUT Constructional Details (EUT Photos)



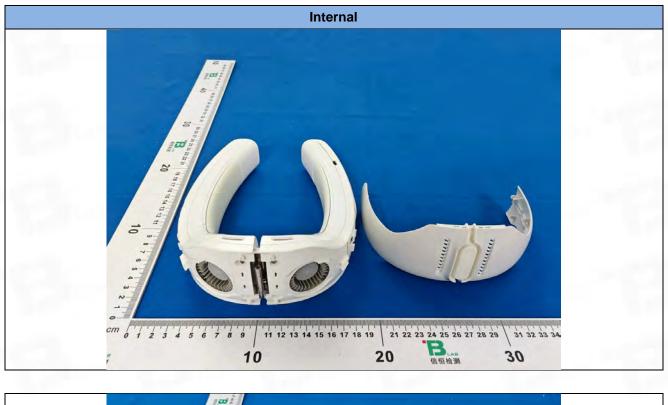














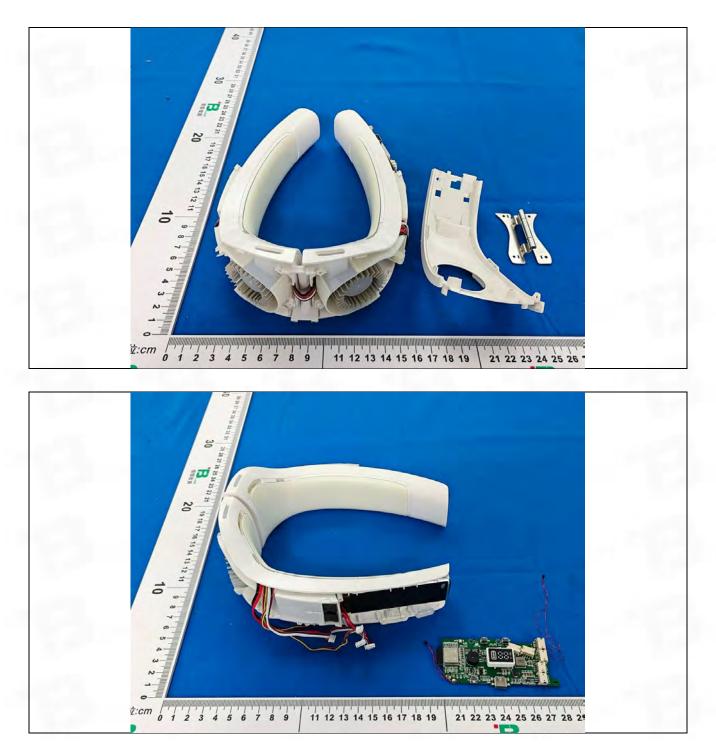
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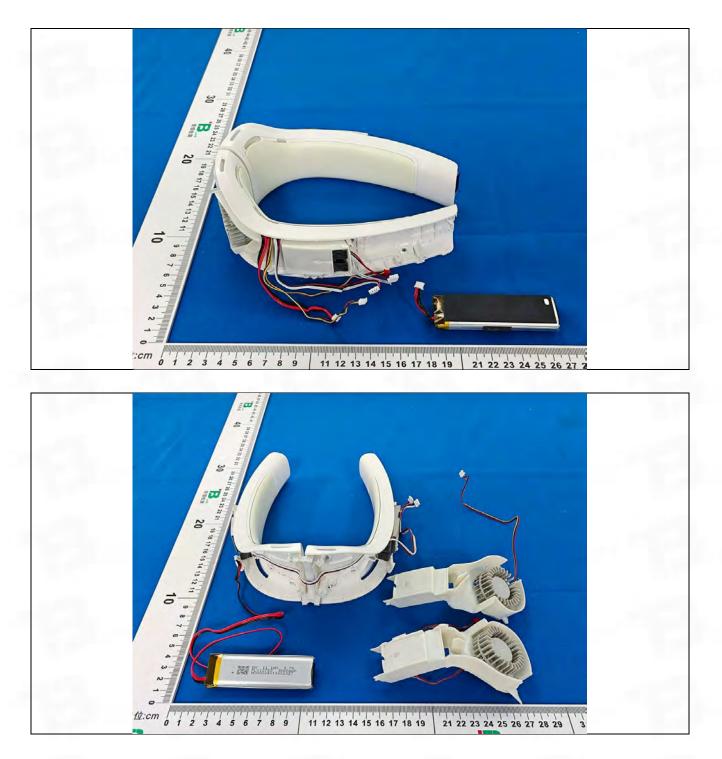
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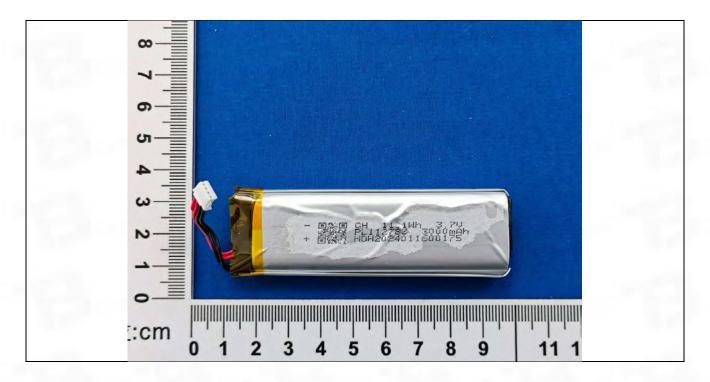
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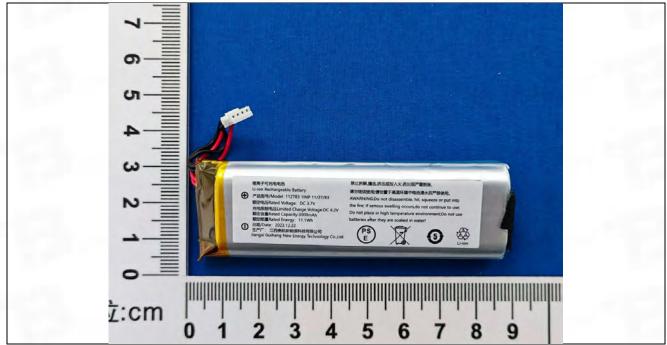




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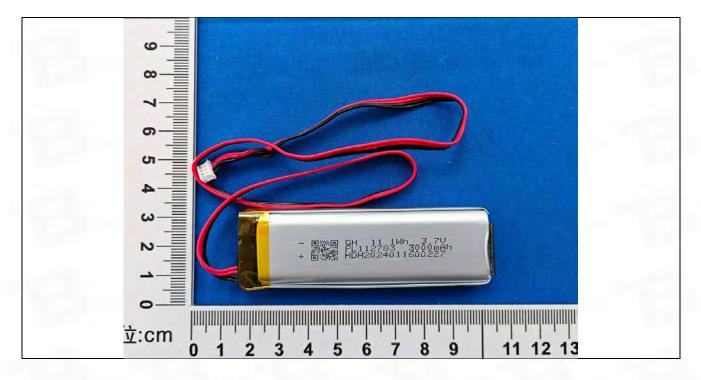






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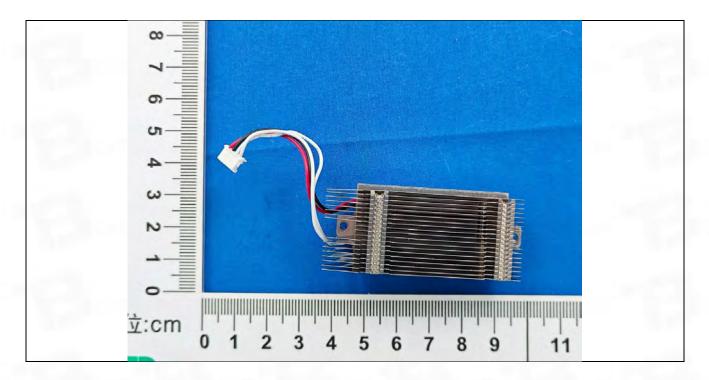


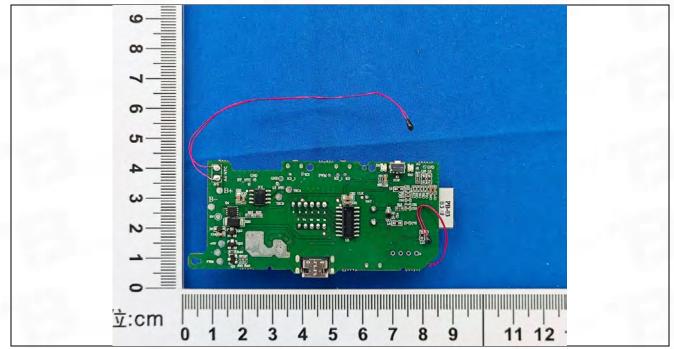




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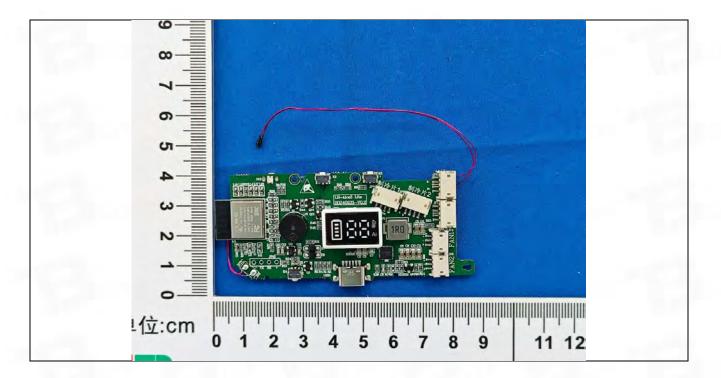


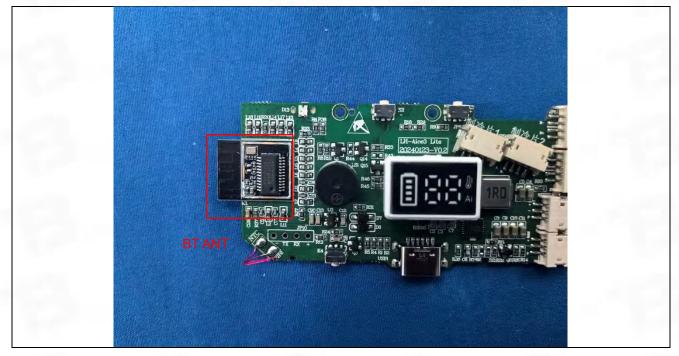




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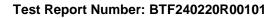






Appendix

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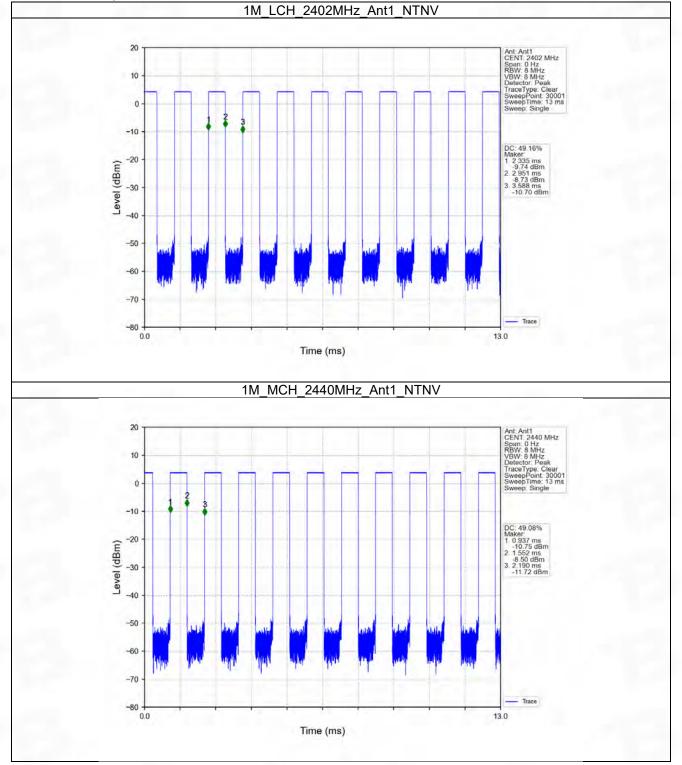
1. Duty Cycle

1.1 Ant1

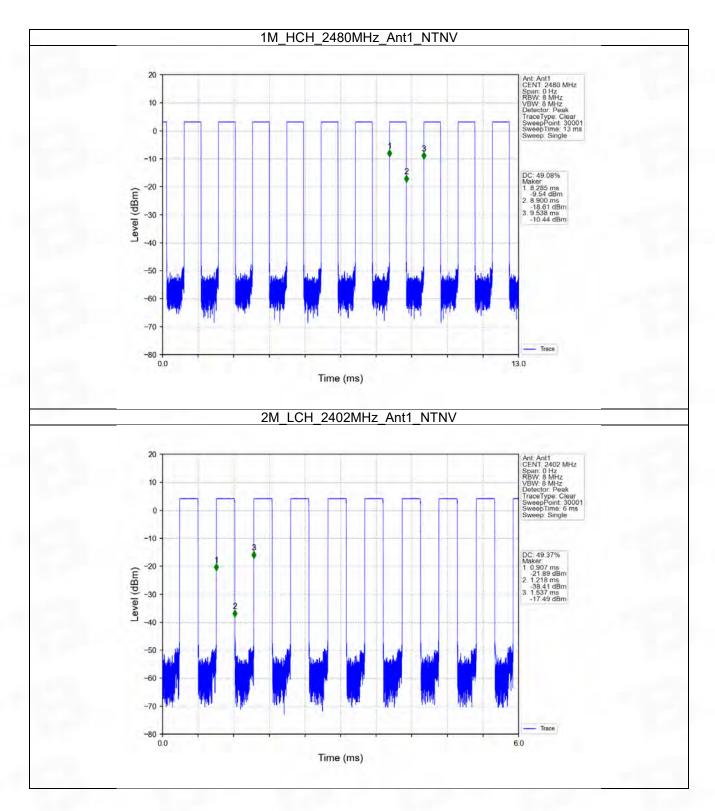
	Ant1						
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		2402	0.616	1.253	49.16	3.08	0.46
1M	SISO	2440	0.615	1.253	49.08	3.09	0.46
		2480	0.615	1.253	49.08	3.09	0.46
		2402	0.311	0.630	49.37	3.07	0.88
2M	SISO	2440	0.311	0.630	49.37	3.07	0.89
		2480	0.311	0.630	49.37	3.07	0.91



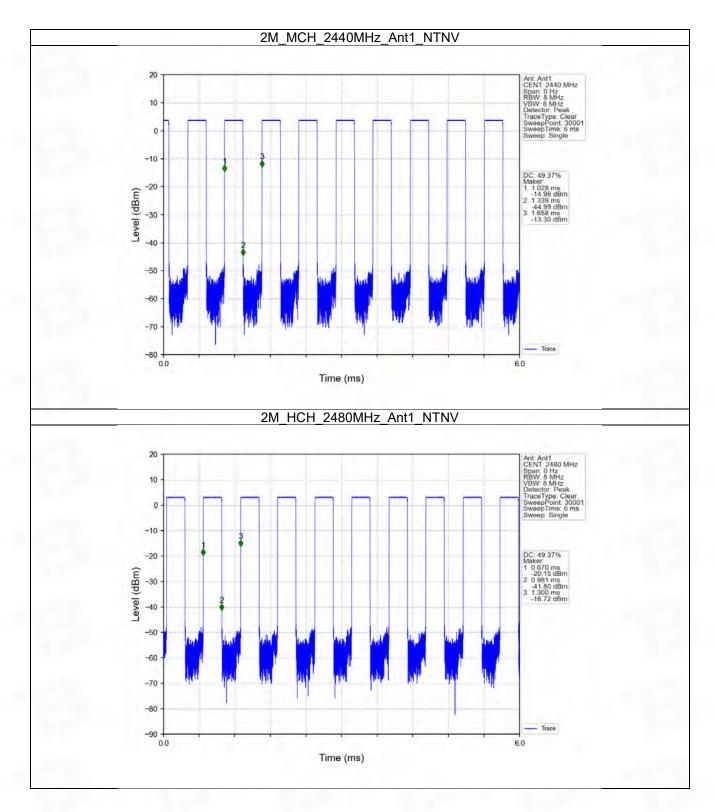
1.1.2 Test Graph











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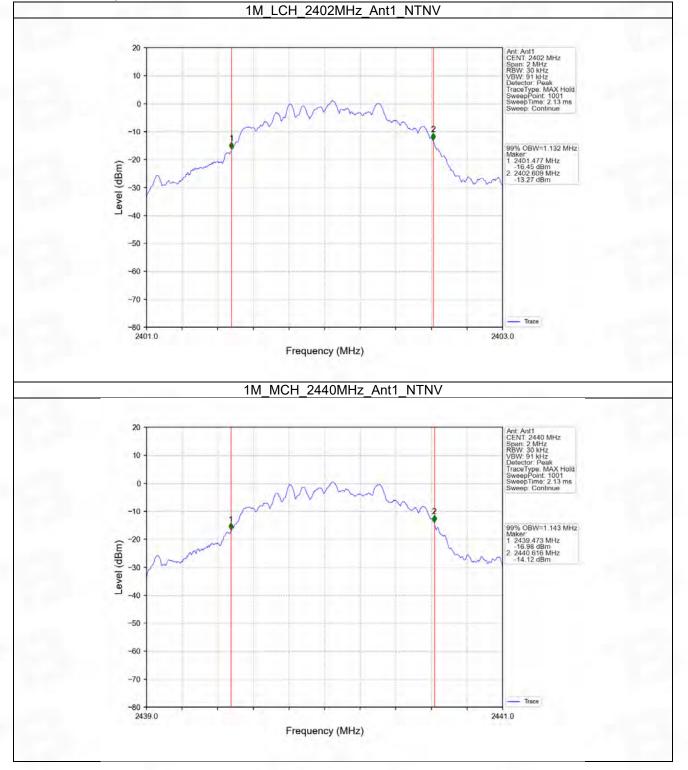
2. Bandwidth

2.1 OBW

Mode	TX	Frequency	ANT	99% Occupied B	Vardiat	
	Туре	(MHz)	ANT	Result	Limit	Verdict
		2402	1	1.132	/	Pass
1M	SISO	2440	1	1.143	1	Pass
		2480	1	1.151	/	Pass
	SISO	2402	1	2.070	/	Pass
2M		2440	1	2.075	1	Pass
		2480	1	2.074	1	Pass

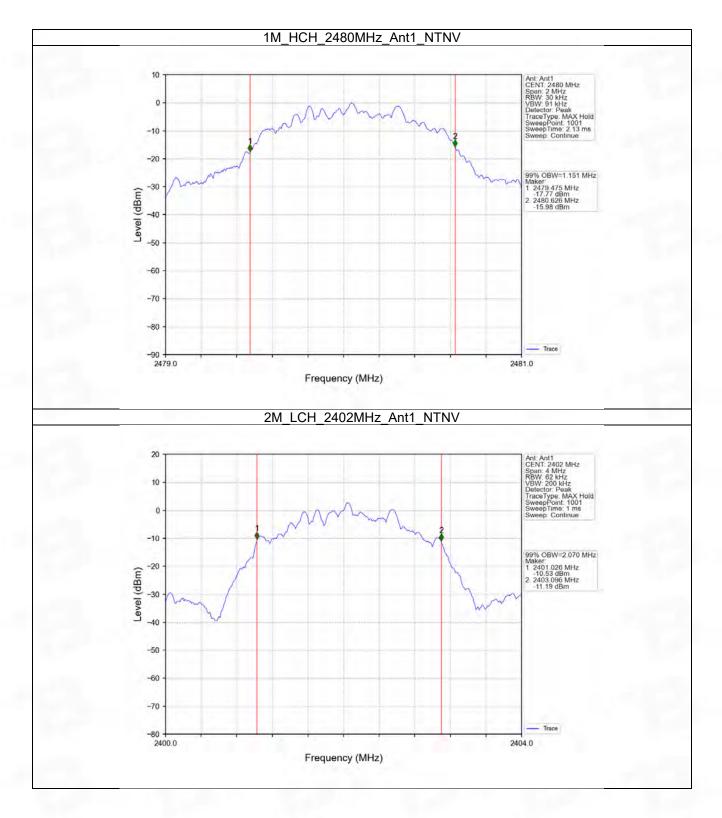


2.1.2 Test Graph

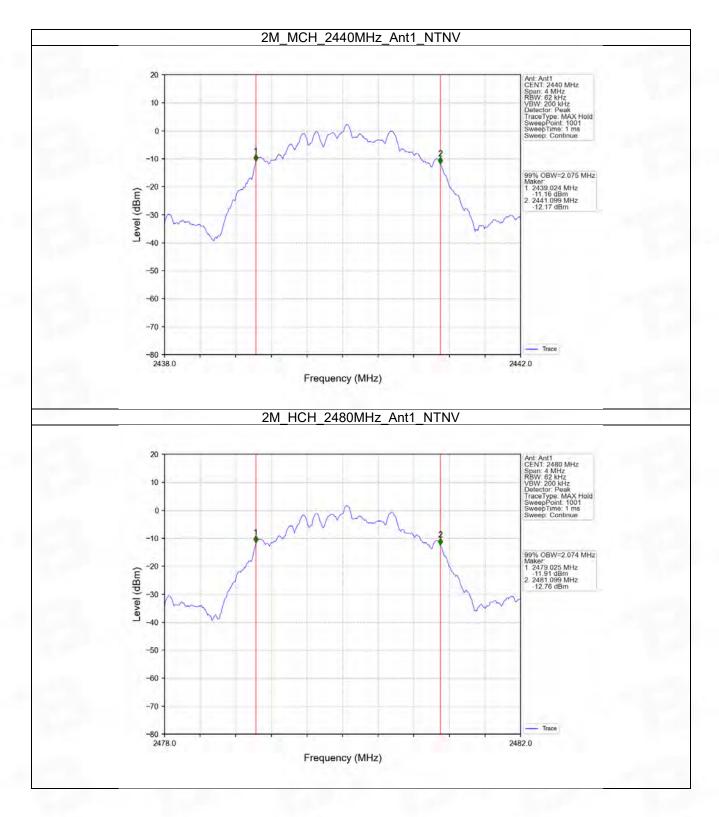


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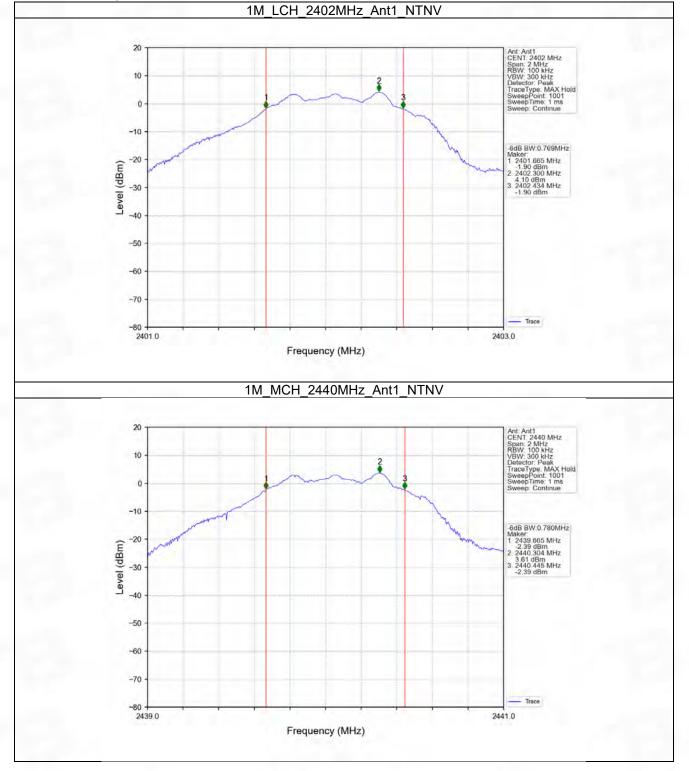


2.2 6dB BW

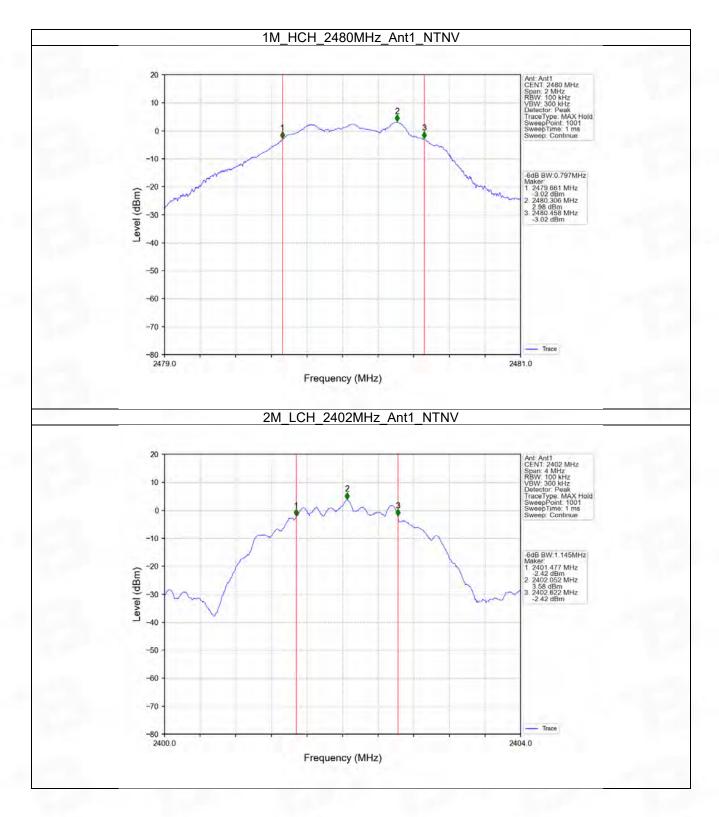
Mode	TX	Frequency	ANT	6dB Bandv	Verdict		
woue	Туре	(MHz)	ANT	Result	Limit	VEILICL	
		2402	1	0.769	>=0.5	Pass	
1M	SISO	2440	1	0.780	>=0.5	Pass	
		2480	1	0.797	>=0.5	Pass	
	SISO	2402	1	1.145	>=0.5	Pass	
2M		2440	1	1.145	>=0.5	Pass	
		2480	1	1.151	>=0.5	Pass	



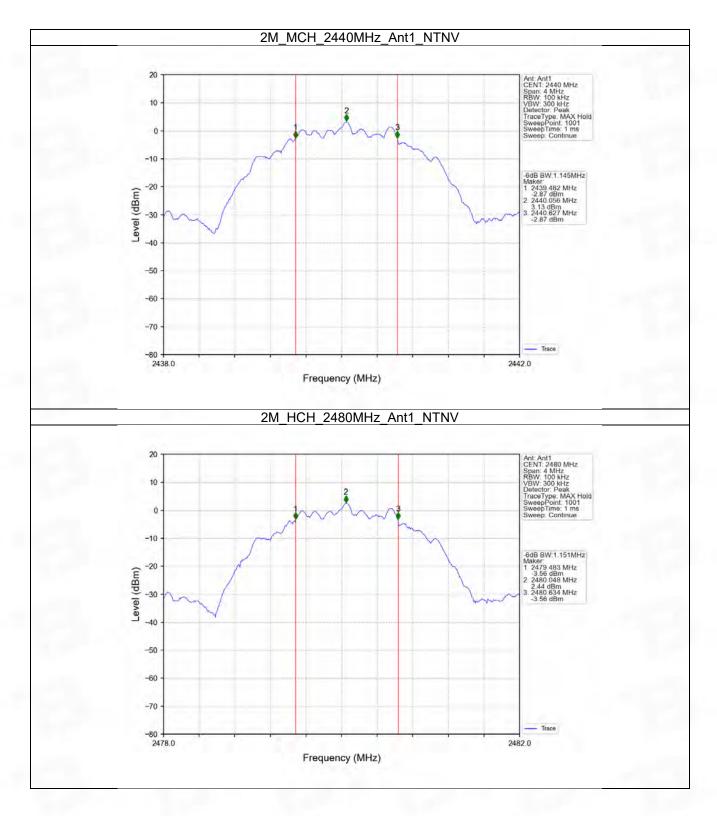
2.2.2 Test Graph











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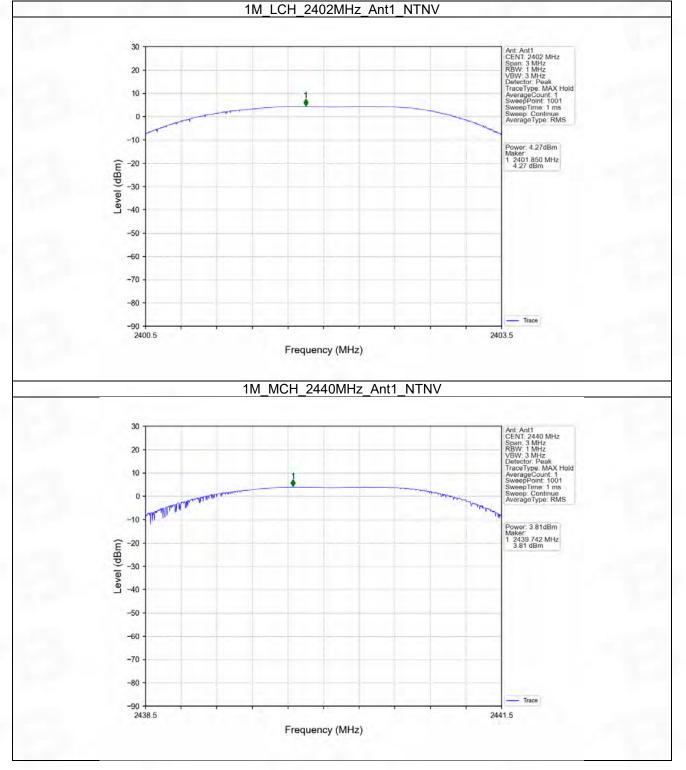
3. Maximum Conducted Output Power

3.1 Power

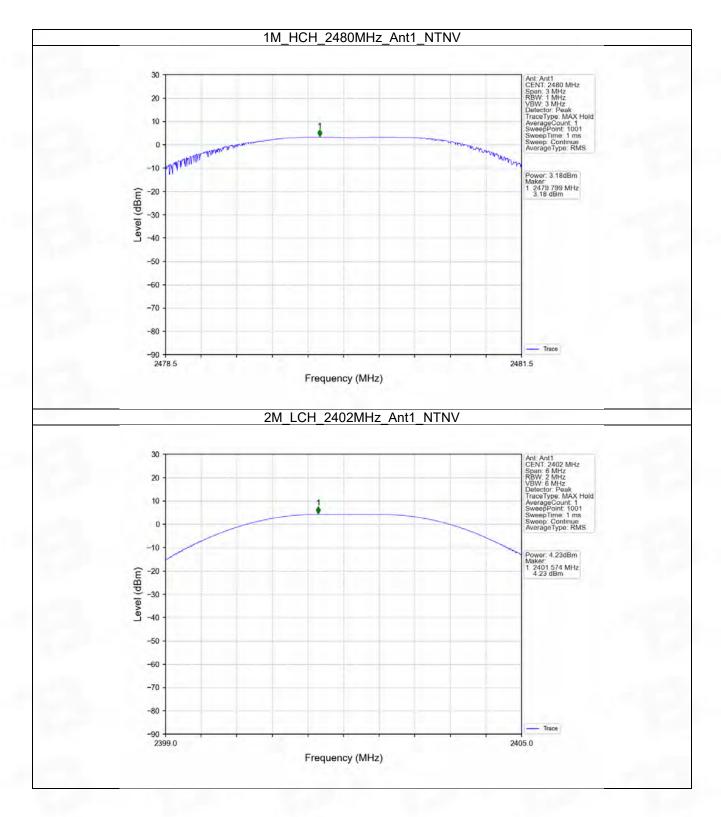
Mode	TX	Frequency	Maximum Peak Conduc	Verdict	
	Туре	(MHz)	ANT1	Limit	Veruici
and the second second		2402	4.27	<=30	Pass
1M	SISO	2440	3.81	<=30	Pass
		2480	3.18	<=30	Pass
	SISO	2402	4.23	<=30	Pass
2M		2440	3.80	<=30	Pass
Seattle of		2480	3.17	<=30	Pass
Note1: Ante	nna Gain: An	t1: 2.56dBi;			



3.1.2 Test Graph

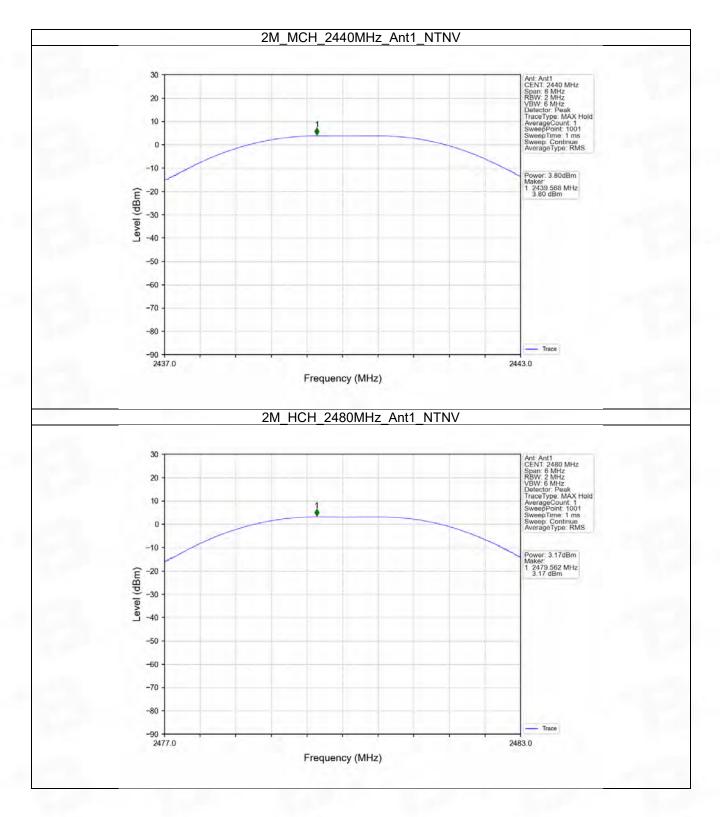






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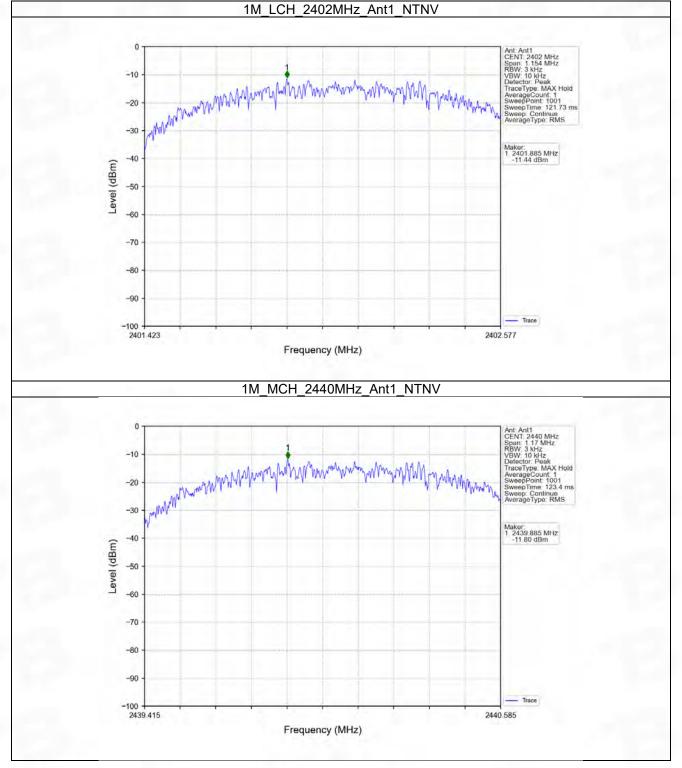
4. Maximum Power Spectral Density

4.1 PSD

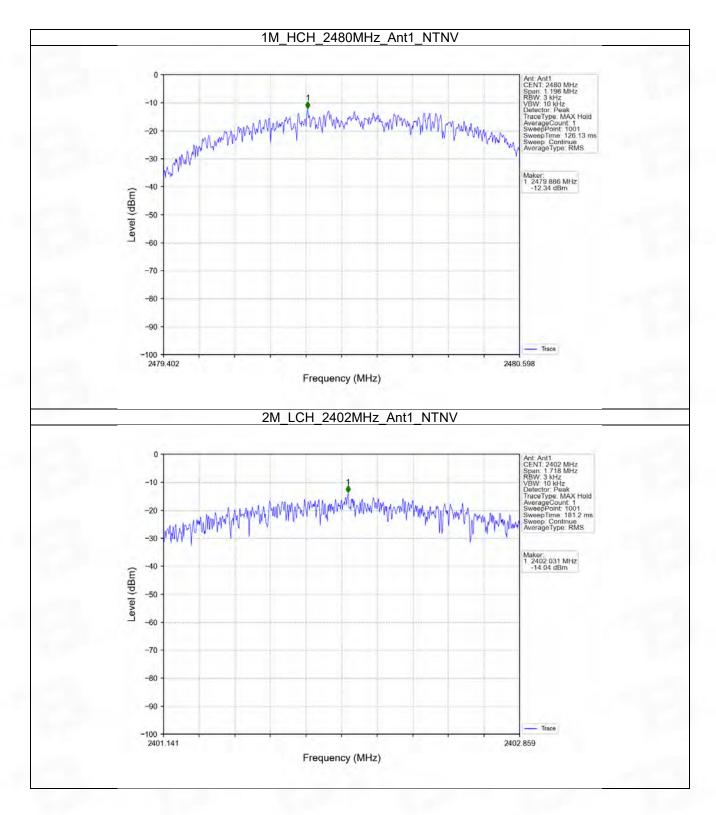
Mode	TX	Frequency	Maximum PS	Vardiat	
Mode	Туре	(MHz)	ANT1	Limit	Verdict
1M		2402	-11.44	<=8	Pass
	SISO	2440	-11.80	<=8	Pass
		2480	-12.34	<=8	Pass
2M		2402	-14.04	<=8	Pass
	SISO	2440	-14.34	<=8	Pass
		2480	-14.71	<=8	Pass



4.1.2 Test Graph

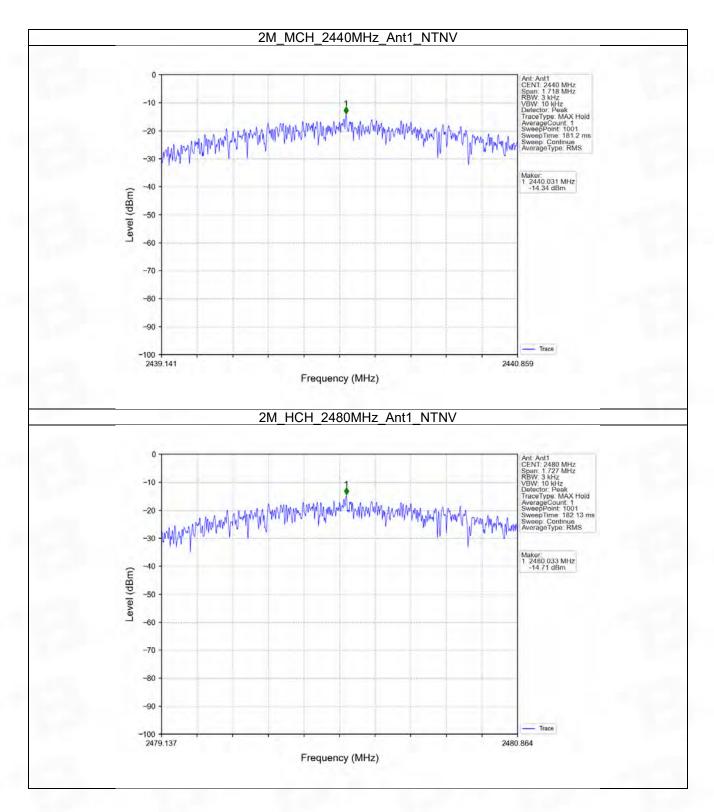






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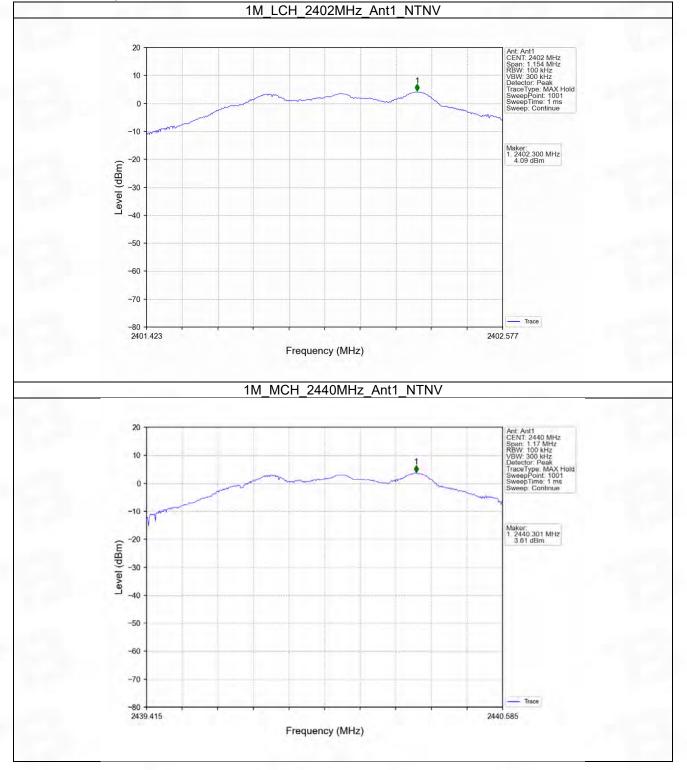
5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	4.09
1M	SISO	2440	1	3.61
		2480	1	2.98
	SISO	2402	1	3.56
2M		2440	1	3.09
		2480	1	2.46

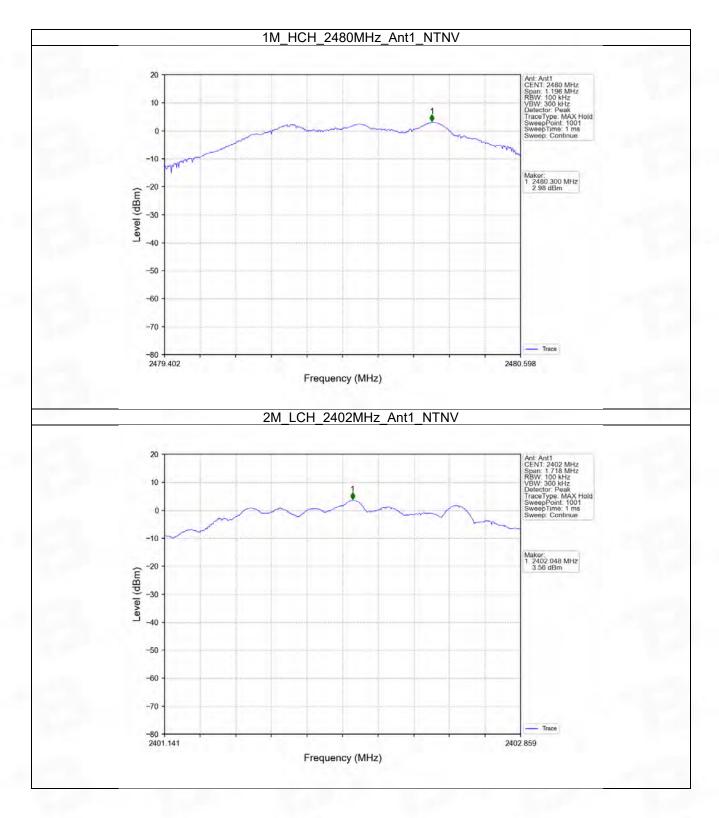


5.1.2 Test Graph

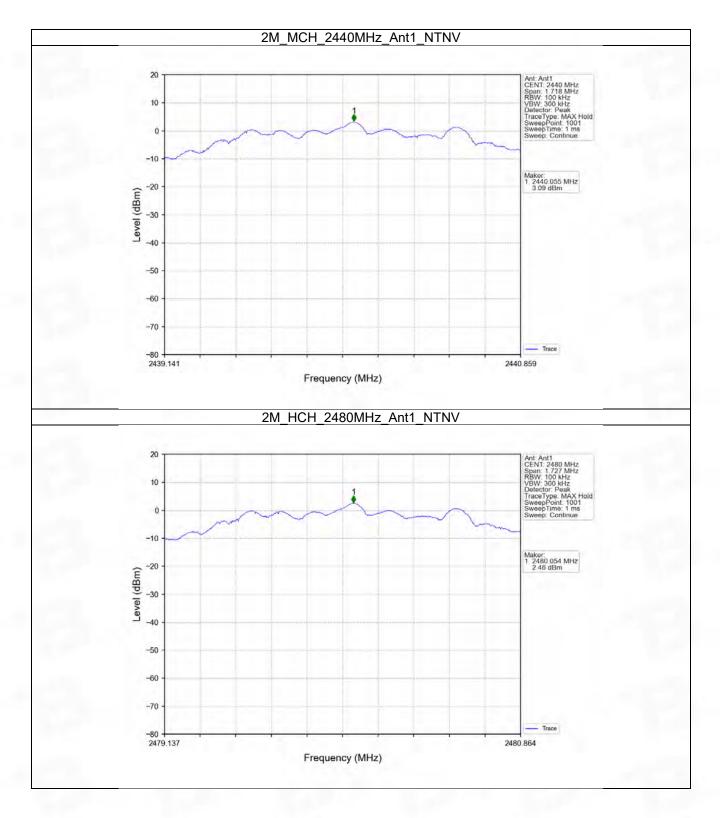


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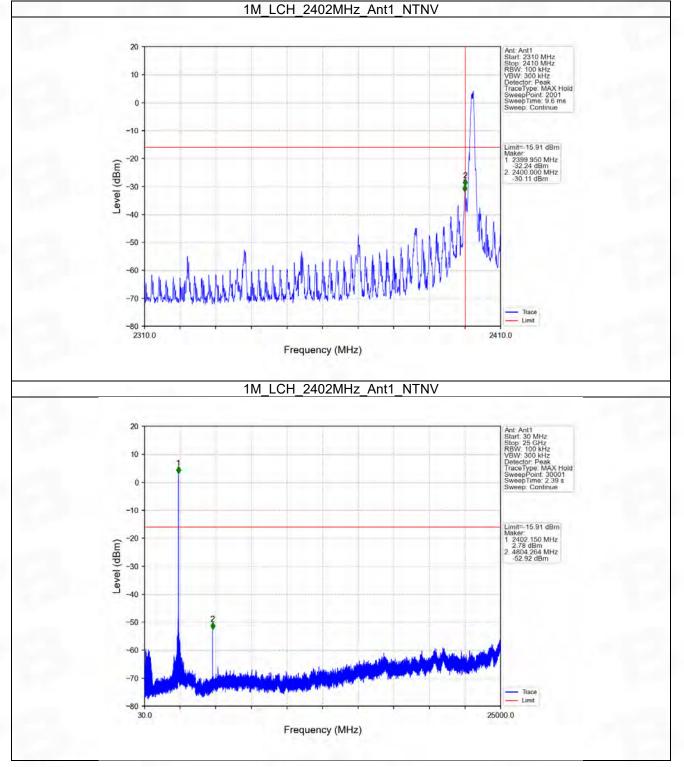


5.2 CSE

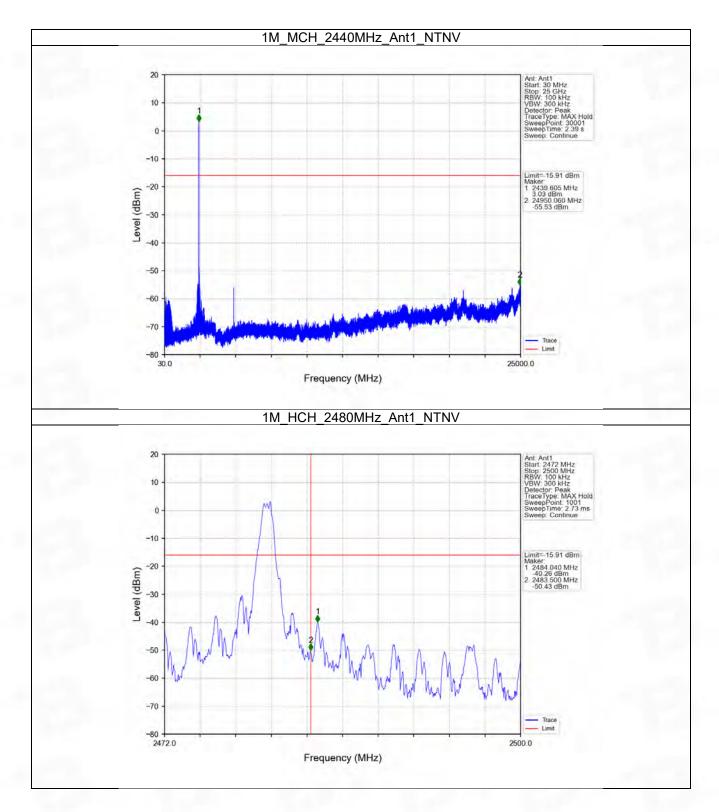
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	4.09	-15.91	Pass
1M	SISO	2440	1	4.09	-15.91	Pass
		2480	1	4.09	-15.91	Pass
		2402	1	3.56	-16.44	Pass
2M	SISO	2440	1	3.56	-16.44	Pass
		2480	1	3.56	-16.44	Pass
		t 15.247 (d) and A e reference level.	ANSI C63.10-	2013, the channel contain	s the maximur	n PSD level



5.2.2 Test Graph

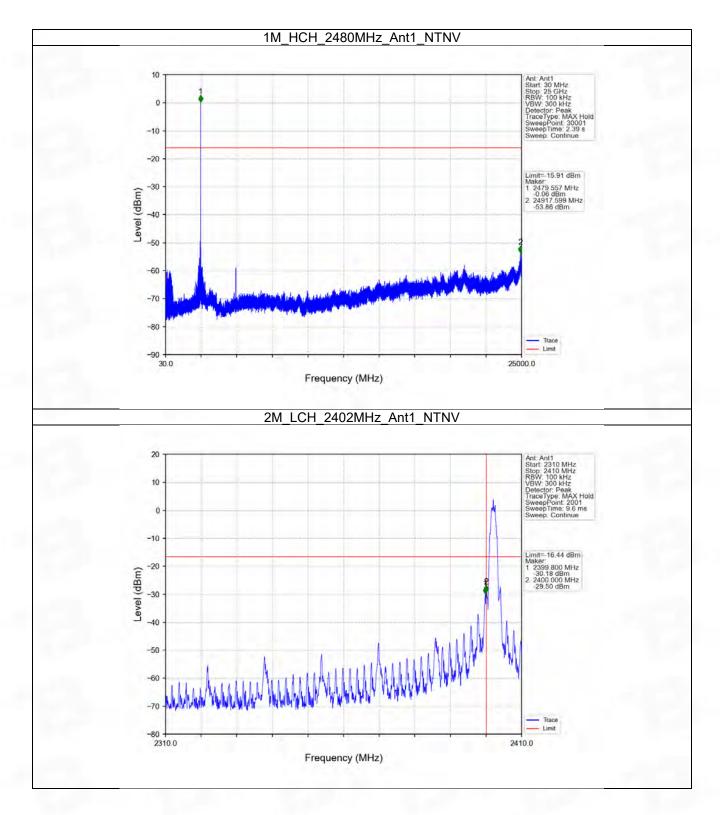




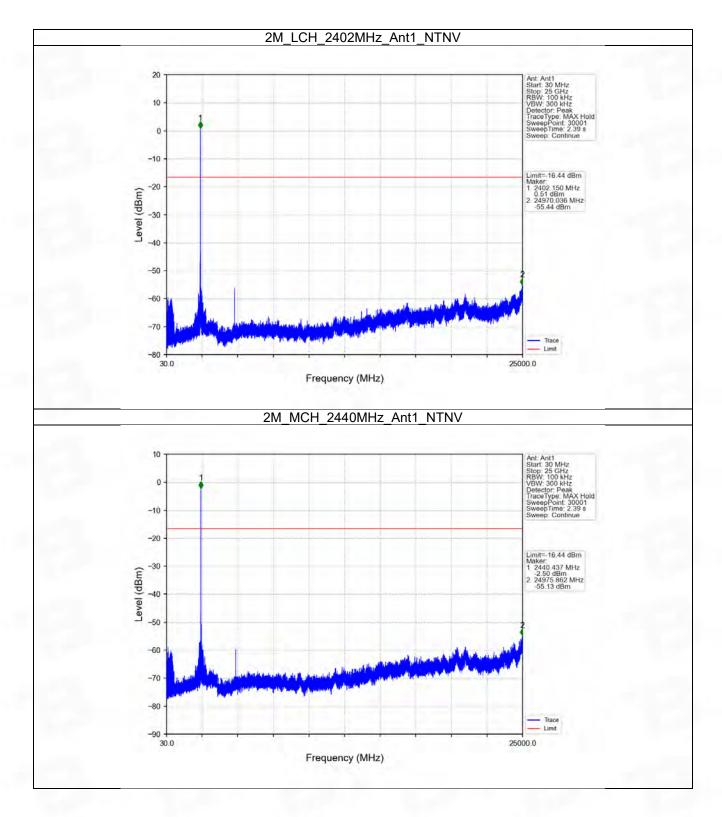


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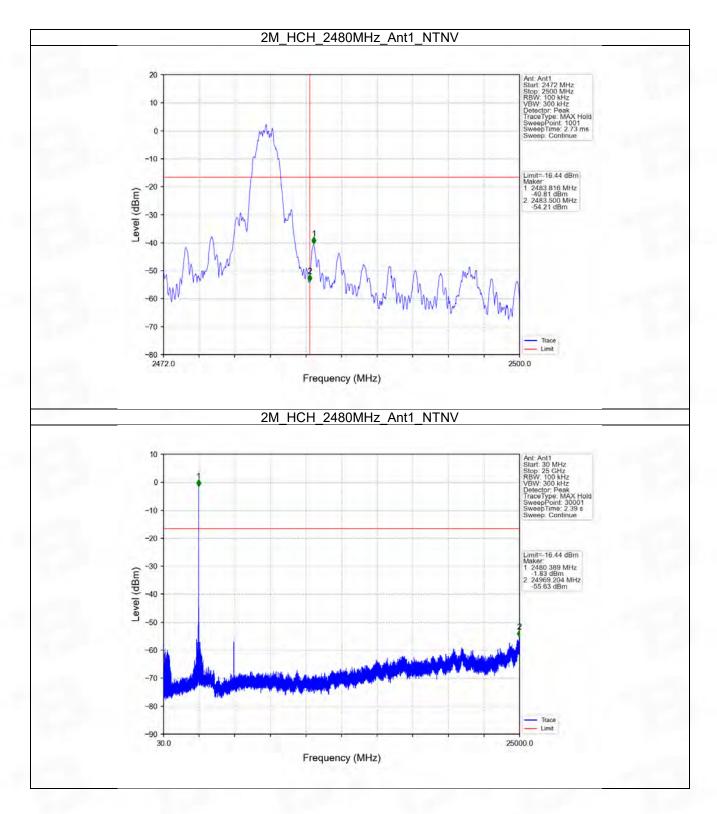












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6. Form731

6.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0027	4.27





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-- END OF REPORT --