

Health Test Report

For

Applicant name: LIMITLESS INNOVATIONS, INC.
Address: 265 Exchange Dr, Crystal Lake, IL 60014
EUT name: Limitless Ultra 15,000mAh Power Bank
Brand name: LIMITLESS, BOUNDLESS
Model number: LIM-EP15MSPB-M001
Series model number: LIM-EP15MSPB-M106, LIM-EP15MSPB-M087, LIM-EP15MSPB-M122, LIM-EP15MSPB-M018, LIM-EP15MSPB-M088, LIM-EP15MSPB-M123, BND-SP15MSPB-M001, BND-SP15MSPB-M124, BND-SP15MSPB-M051, BND-SP15MSPB-M017, BND-SP15MSPB-M126, BND-SP15MSPB-M125
FCC ID: 2BWLC-LIM-EP15MSPB

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Report number: BTF260427R00601
Test standards: FCC CFR Title 47 Part 15 Subpart C
Test conclusion: Pass
Date of sample receipt: 2026-04-27
Test date: 2026-04-28 to 2026-06-10
Date of issue: 2026-06-11

Prepared by:



Chris Liu/Project engineer

Approved by:



Ryan CJ/EMC manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue date	Revisions content
R_V0	2026-06-11	Original

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **ISED – CAB identifier.: CN0135**
The 3m Semi-anechoic chamber of BTF Testing Lab (Shenzhen) Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 27844.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

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.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2 Product Information

2.1 Application Information

Company name:	LIMITLESS INNOVATIONS, INC.
Address:	265 Exchange Dr, Crystal Lake, IL 60014

2.2 Manufacturer Information

Company name:	SHENZHEN CHIFROG TECHNOLOGY CO., LTD
Address:	402, BLD B, Bafang Industrial Park, 13 Lingxia Rd, Fenghuang, Fuyong, Bao'An District, Shenzhen, China, PostCode: 518103

2.3 Factory Information

Company name:	SHENZHEN CHIFROG TECHNOLOGY CO., LTD
Address:	402, BLD B, Bafang Industrial Park, 13 Lingxia Rd, Fenghuang, Fuyong, Bao'An District, Shenzhen, China, PostCode: 518103

2.4 General Description of Equipment under Test (EUT)

EUT name	Limitless Ultra 15,000mAh Power Bank
Under test model name	LIM-EP15MSPB-M001
Series model name	LIM-EP15MSPB-M106,LIM-EP15MSPB-M087,LIM-EP15MSPB-M122,LIM-EP15MSPB-M018,LIM-EP15MSPB-M088,LIM-EP15MSPB-M123,BND-SP15MSPB-M001,BND-SP15MSPB-M124,BND-SP15MSPB-M051,BND-SP15MSPB-M017,BND-SP15MSPB-M126,BND-SP15MSPB-M125
Description of model name differentiation	Only the model name is different, everything else is the same
Hardware Version	N/A
Software Version	N/A
Rating:	Battery Capacity: 3.85V 15000mAh 57.75Wh AC Input: 100-240Vac 50/60Hz 0.5A USB Output: 5V=3A, 9V=2A, 12V=1.5A QC 18W Type-C Built-in Cable Input: 5V=3A, 9V=2A, 12V=1.5A PD 18W Type-C Built-in Cable Output: 5V=3A, 9V=2.22A, 12V=1.67A PD 20W Type-C to Micro Adapter Output: 5V=2A 10W Max Type-C to Lightning Adapter Output: 5V=2.4A 12W Max Wireless Charging Output: 15W 7.5W 5W

2.5 Technical Information

Operation frequency:	110.2kHz ~ 205kHz
Modulation technology:	ASK
Antenna type:	Coil Antenna

3 Test Information

3.1 Test Standards

Identity	Document Title
FCC CFR Title 47 Part 15 Subpart C	Intentional Radiators
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Summary of Test

Clauses	Test Items	Result
Part 15.203	Antenna Requirement	PASS
47 CFR 15.207	AC Power Line Conducted Emission	PASS
47 CFR 15.215	20dB Bandwidth	PASS
47 CFR 15.209	Field Strength of Fundamental	PASS
47 CFR 15.209	Field Strength of Spurious Emissions	PASS
Remark: 1. Pass: met the requirements. 2. N/A: not applicable.		

3.3 Uncertainty of Test

Measurement	Value
Occupied Channel Bandwidth	±5 %
Conducted Emission for LISN (9kHz ~ 150kHz)	±2.97 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Radiated Emission (9kHz ~ 30MHz)	±2.20 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.80 dB
Radiated Emission (1GHz ~ 18GHz)	±4.82 dB
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.	

3.4 Additions to, deviations, or exclusions from the method

None

3.5 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description
Phone	HONOR	PGT-AN10	/	/	/

3.6 Test Equipment List

Radiated Emission Test					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI7	101032	2025/10/17	2026/10/16
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2025/10/17	2026/10/16
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2025/10/18	2026/10/17
Loop Antenna	SCHWARZBECK	FMZB	1519 B 00059	2025-06-25	2027-06-24
Preamplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9744	00246	2026/5/10	2027/5/9
BELOW-Cable	REBES Talent	9K1G	21101576	2025/8/23	2026/8/22
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2025/10/18	2026/10/17
Preamplifier (1GHz ~ 18GHz)	Schwarzbeck	BBV9718D	00008	2026/5/10	2027/5/9
Preamplifier	TSTPASS	LNA10180G45	TS2215007	2026/5/10	2027/5/9
ABOVE-Cable	REBES Talent	1~18G	21101558	2025/8/23	2026/8/22
Horn Antenna	SCHWARZBECK	BBHA9170	1157	2025/10/18	2026/10/17
Low Noise Pre- amplifier	Sket	LNPA_1840G-50	SK2022032902	2025/10/17	2026/10/16
ABOVE-Cable2	REBES Talent	18~40G	21101686	2025/8/23	2026/8/22
ABOVE-Cable1	REBES Talent	18~40G	21101687	2025/8/23	2026/8/22
Test Software	Frad	EZ_EMC	Version: FA-03A2 RE+		

Conducted Emission Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2025/10/17	2026/10/16
V-LISN	Schwarzbeck	NSLK 8127	01073	2025/8/23	2026/8/22
Coaxial Switcher	Schwarzbeck	CX210	CX210	/	/
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	/	/
LISN-Cable	REBES Talent	LISN9K30M	21101580	2025/8/23	2026/8/22
Test Software	Frad	EZ_EMC	Version: EMC-CON 3A1.1+		

Conducted test method					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Cell Site Test Set	HP	8921A	US35010158	2025/10/17	2026/10/16
Spectrum Analyzer	Keysight	N9020A	MY50410020	2025/10/17	2026/10/16
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2025/10/17	2026/10/16
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2025/10/17	2026/10/16
Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	161997	2025/10/17	2026/10/16

Programmable Constant Temperature And Humidity Test Chamber	ZZCKONG	ZZ-K02A	20210928007	2025/10/17	2026/10/16
DC Power Supply	Tongmen	etm-6050c	20211026123	2025/10/17	2026/10/16
RF Control Unit	Techy	TR1029-1	/	2025/10/17	2026/10/16
RF Sensor Unit	Techy	TR1029-2	/	2025/10/17	2026/10/16
RF shielding box	YinuoXin Electronics	50*50*50 cm	N/A	2025/10/21	2026/10/20
Test Software	TST Pass	/	Version: 2.0		

4 Test Configuration

4.1 Environment Condition

Selected Values During Tests		
Temperature	Relative Humidity	Ambient Pressure
Normal: +15°C to +35°C Extreme: -30°C to +50°C	20% to 75%	86 kPa to 106 kPa

4.2 Test mode

No.	Test Modes	
TM1	EUT stand alone, standby.powered by AC input.	
TM2	Direct contact during charging/operating between the EUT& Mobile phone is powered by AC input.	Using a mobile phone load (Battery Status:99%)
TM3		Using a mobile phone load (Battery Status:50%)
TM4		Using a mobile phone load (Battery Status:1%)
Remark: @110.2kHz-205kHz (127.0KHz)		

Clauses	Test Items	Test mode
Part 15.203	Antenna Requirement	TM4
47 CFR 15.207	AC Power Line Conducted Emission	TM4
47 CFR 15.215	20dB Bandwidth	TM4
47 CFR 15.209	Field Strength of Fundamental	TM4
47 CFR 15.209	Field Strength of Spurious Emissions	TM4

5 Technical requirements specification

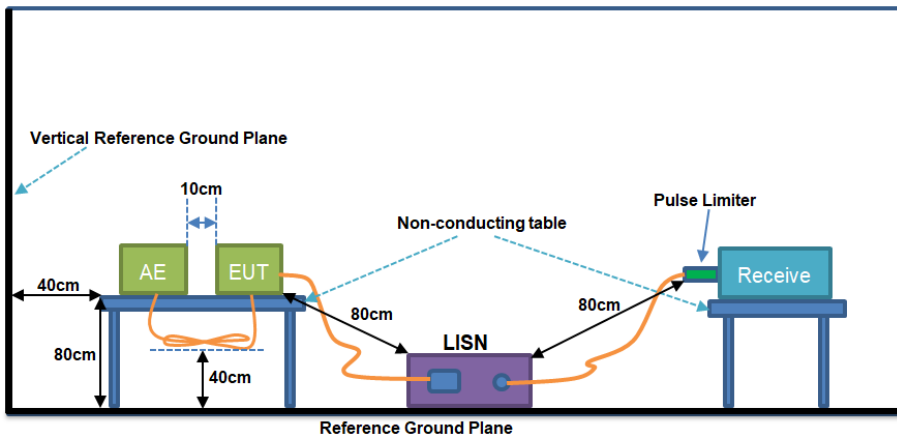
5.1 Antenna requirement

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.
Operating Environment:	
Temperature:	24.3 °C
Humidity:	49.7 %
Atmospheric Pressure:	1010 mbar

5.1.1 Conclusion

The antenna is a permanently fixed coil antenna and meets the standard requirements, please refer to the EUT photos for the antenna.

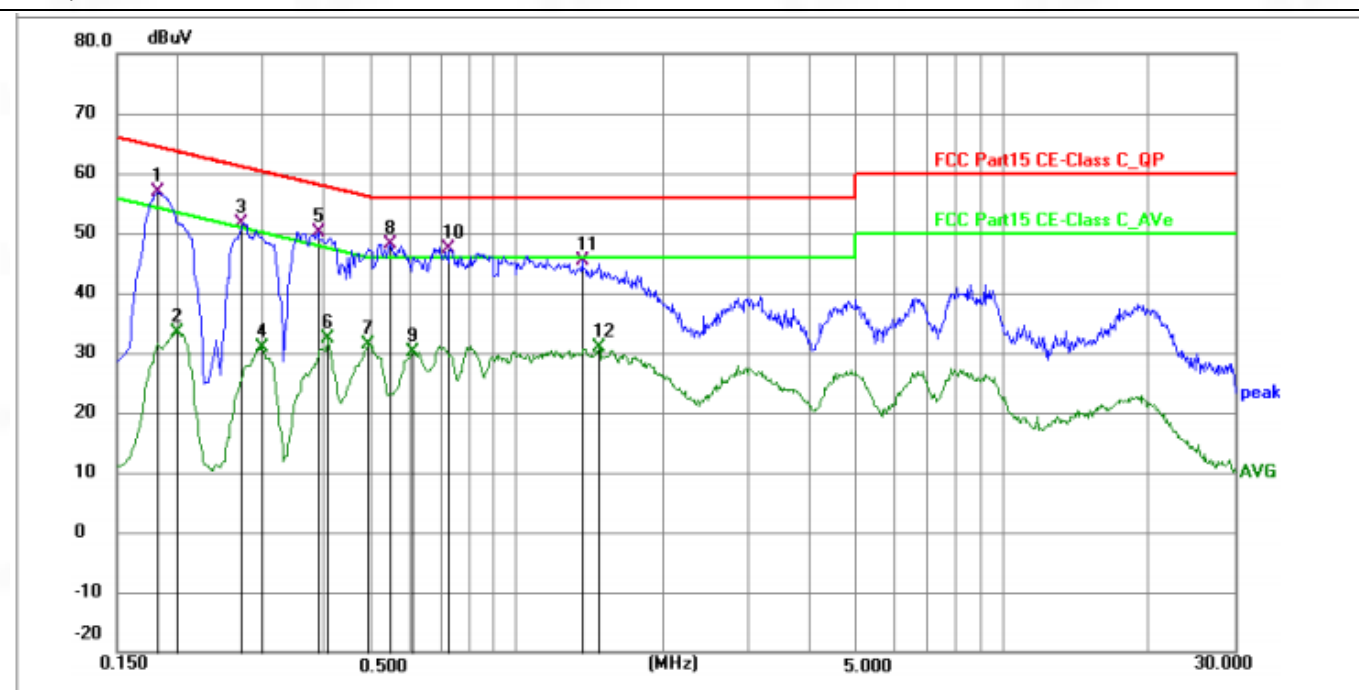
5.2 Conducted Emission at AC power line

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 μH/50 ohms line impedance stabilization network (LISN).		
Test Method:	ANSI C63.10-2020 section 6.2		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBμV)	
		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.			
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
Test Setup:			
Operating Environment:			
Temperature:	24.3 °C		
Humidity:	49.7 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	3.85 V from battery		

5.2.1 Test Data

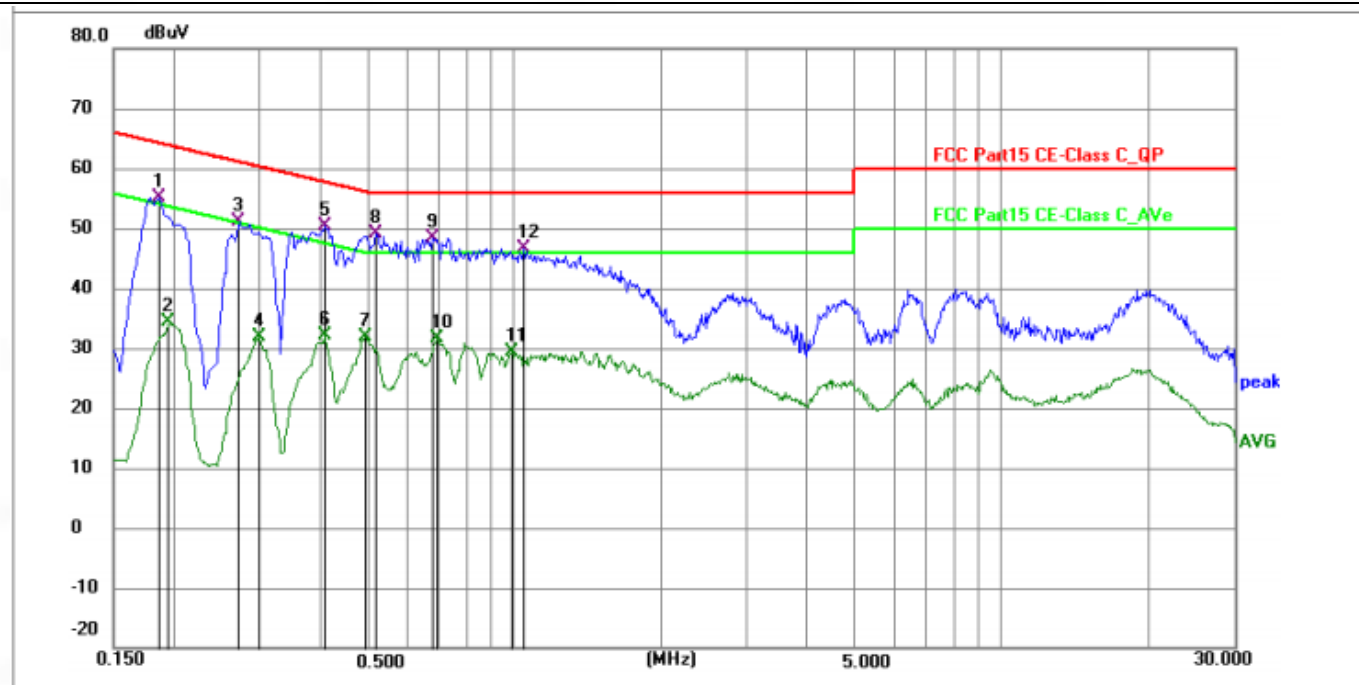
Remark: The report only reflects the test data of worst mode.

TM4 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1814	46.69	10.29	56.98	64.42	-7.44	QP	P	
2	0.1995	23.23	10.24	33.47	53.63	-20.16	AVG	P	
3	0.2714	41.52	10.18	51.70	61.07	-9.37	QP	P	
4	0.2983	20.57	10.22	30.79	50.29	-19.50	AVG	P	
5	0.3885	39.86	10.19	50.05	58.10	-8.05	QP	P	
6	0.4063	22.20	10.18	32.38	47.72	-15.34	AVG	P	
7	0.4941	21.21	10.21	31.42	46.10	-14.68	AVG	P	
8	0.5460	37.93	10.22	48.15	56.00	-7.85	QP	P	
9	0.6090	20.00	10.24	30.24	46.00	-15.76	AVG	P	
10	0.7304	37.16	10.27	47.43	56.00	-8.57	QP	P	
11	1.3605	35.23	10.25	45.48	56.00	-10.52	QP	P	
12	1.4775	20.61	10.28	30.89	46.00	-15.11	AVG	P	

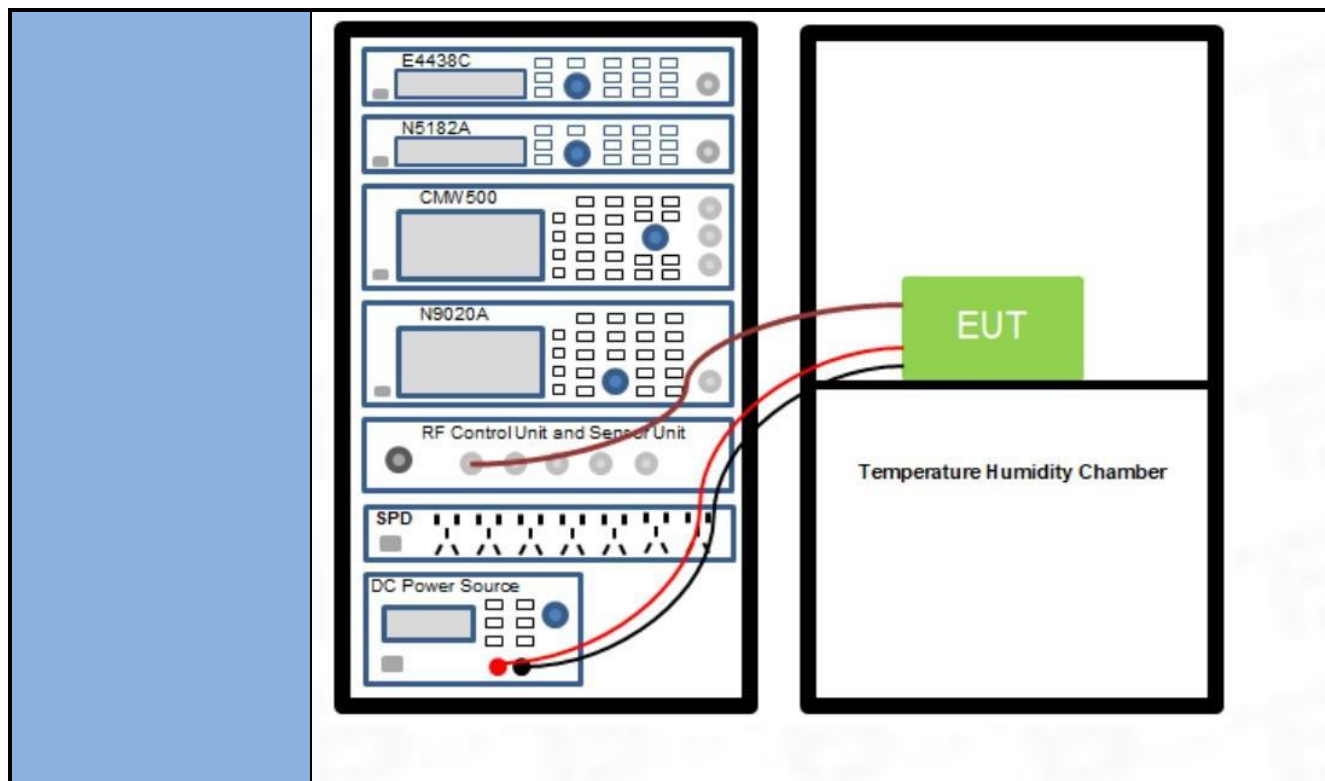
TM4 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1860	44.98	10.22	55.20	64.21	-9.01	QP	P	
2	0.1949	24.11	10.22	34.33	53.83	-19.50	AVG	P	
3	0.2714	41.02	10.21	51.23	61.07	-9.84	QP	P	
4	0.2985	21.56	10.21	31.77	50.28	-18.51	AVG	P	
5	0.4065	40.17	10.22	50.39	57.72	-7.33	QP	P	
6	0.4065	21.80	10.22	32.02	47.72	-15.70	AVG	P	
7	0.4920	21.70	10.23	31.93	46.13	-14.20	AVG	P	
8 *	0.5190	38.80	10.24	49.04	56.00	-6.96	QP	P	
9	0.6809	38.18	10.24	48.42	56.00	-7.58	QP	P	
10	0.6900	21.40	10.24	31.64	46.00	-14.36	AVG	P	
11	0.9870	19.15	10.23	29.38	46.00	-16.62	AVG	P	
12	1.0455	36.43	10.23	46.66	56.00	-9.34	QP	P	

5.3 20dB Bandwidth

Test Requirement:	47 CFR Part 15.215(c)
Test Method:	ANSI C63.10-2020, section 6.9.2
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place 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 “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
Test Setup:	



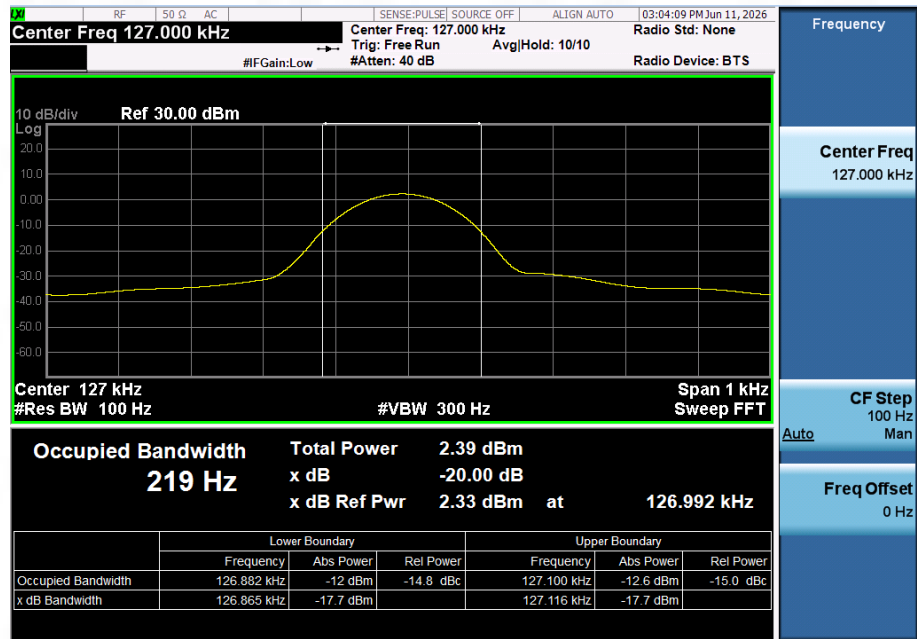
Operating Environment:

Temperature:	24.3 °C
Humidity:	49.7 %
Atmospheric Pressure:	1010 mbar
Test voltage:	3.85 V from battery

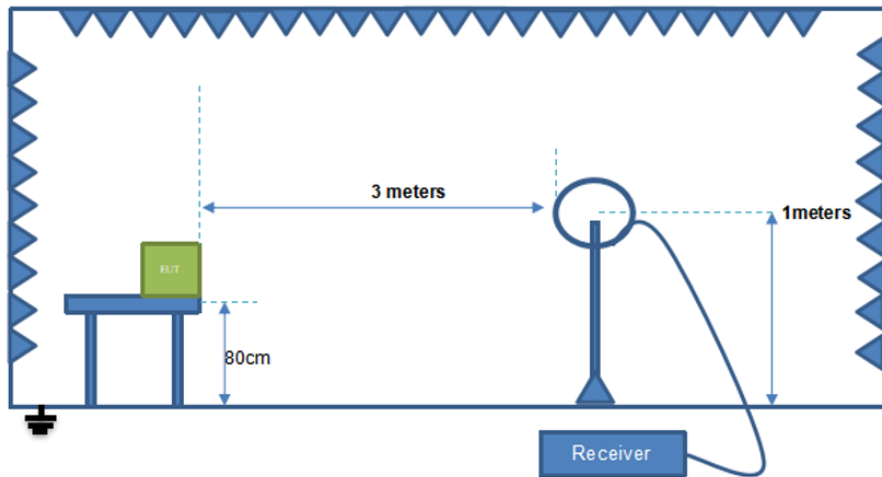
5.3.1 Test Data

Test Frequency (kHz)	f_L (kHz)	f_H (kHz)	20dB Bandwidth (Hz)	Limits
127.000	126.865	127.116	251	N/A
Remark: The CW signal varies with the change of RBW, and it fails to meet the requirements of RBW ranging from 1% to 5%.				

Test Plot as Follows:



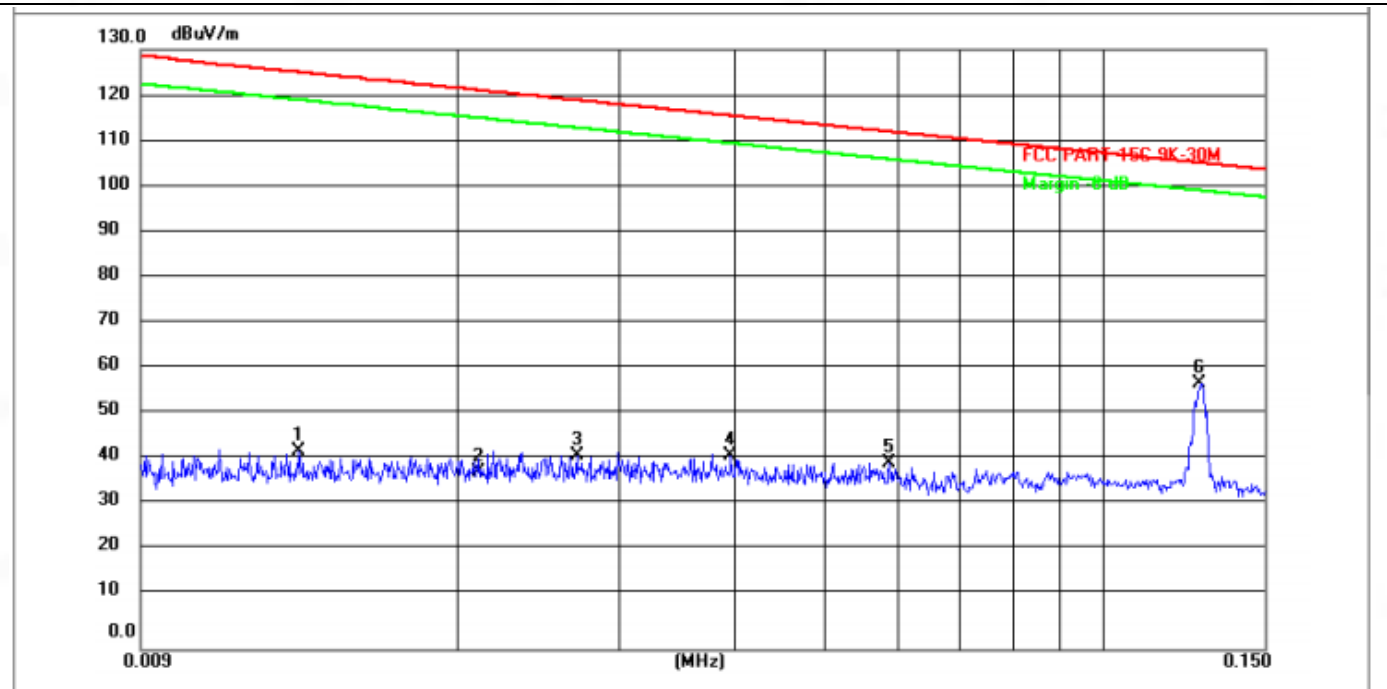
5.4 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209		
Test Method:	ANSI C63.10-2020 section 6.4		
Test Limit:	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
	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. 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. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.		
Procedure:	ANSI C63.10-2020 section 6.4		
Test Setup:			
Operating Environment:			
Temperature:	24.3 °C		
Humidity:	49.7 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	3.85 V from battery		

5.4.1 Test Data

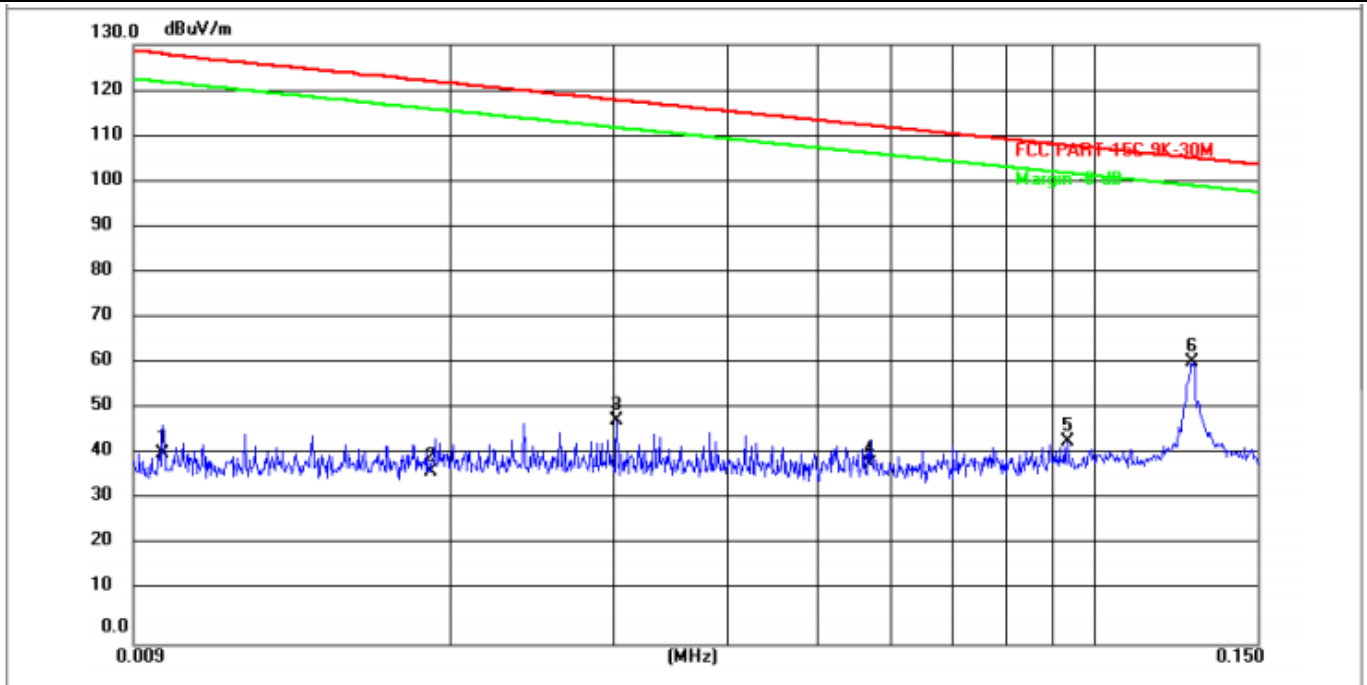
Remark: The report only reflects the worst test data.

TM4 / Polarization: Coaxial



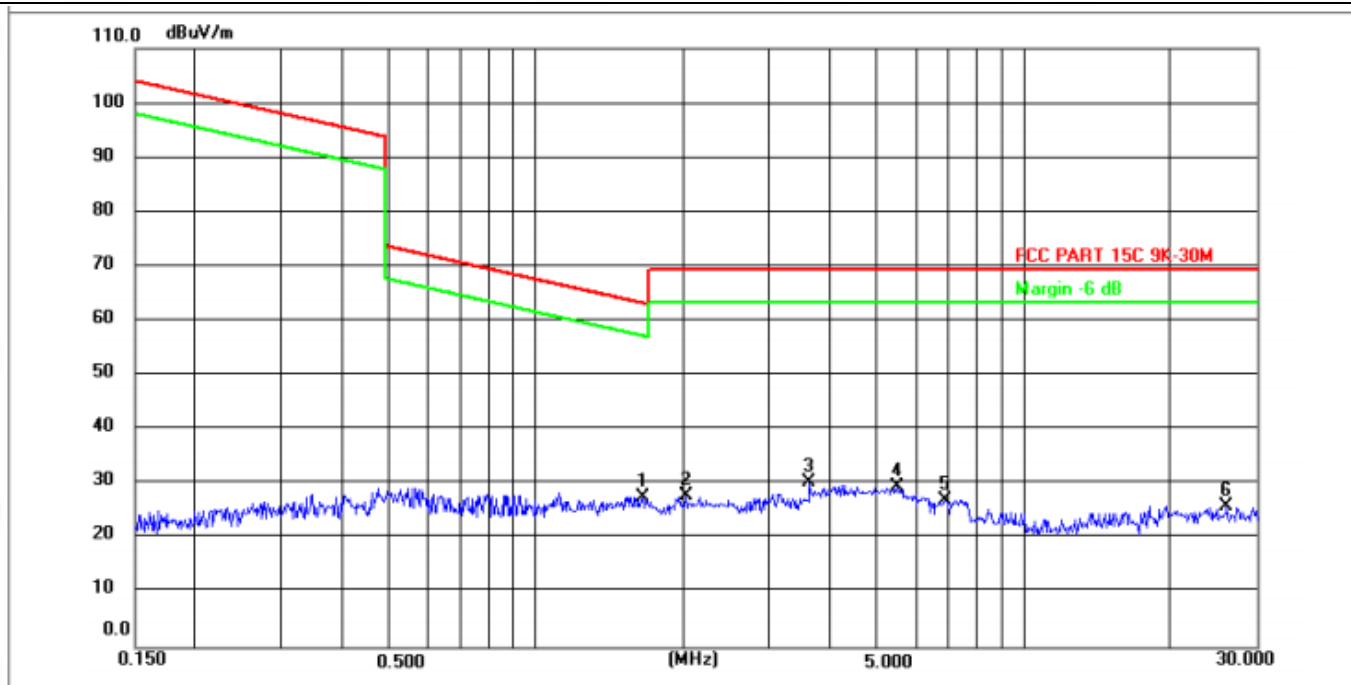
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0134	74.43	-31.44	42.99	125.04	-82.05	peak	P
2	0.0210	69.81	-31.43	38.38	121.14	-82.76	peak	P
3	0.0268	73.58	-31.43	42.15	119.03	-76.88	peak	P
4	0.0395	73.52	-31.42	42.10	115.66	-73.56	peak	P
5	0.0585	71.90	-31.40	40.50	112.25	-71.75	peak	P
6 *	0.1276	88.80	-31.08	57.72	105.48	-47.76	peak	P

TM4 / Polarization: Coplanar



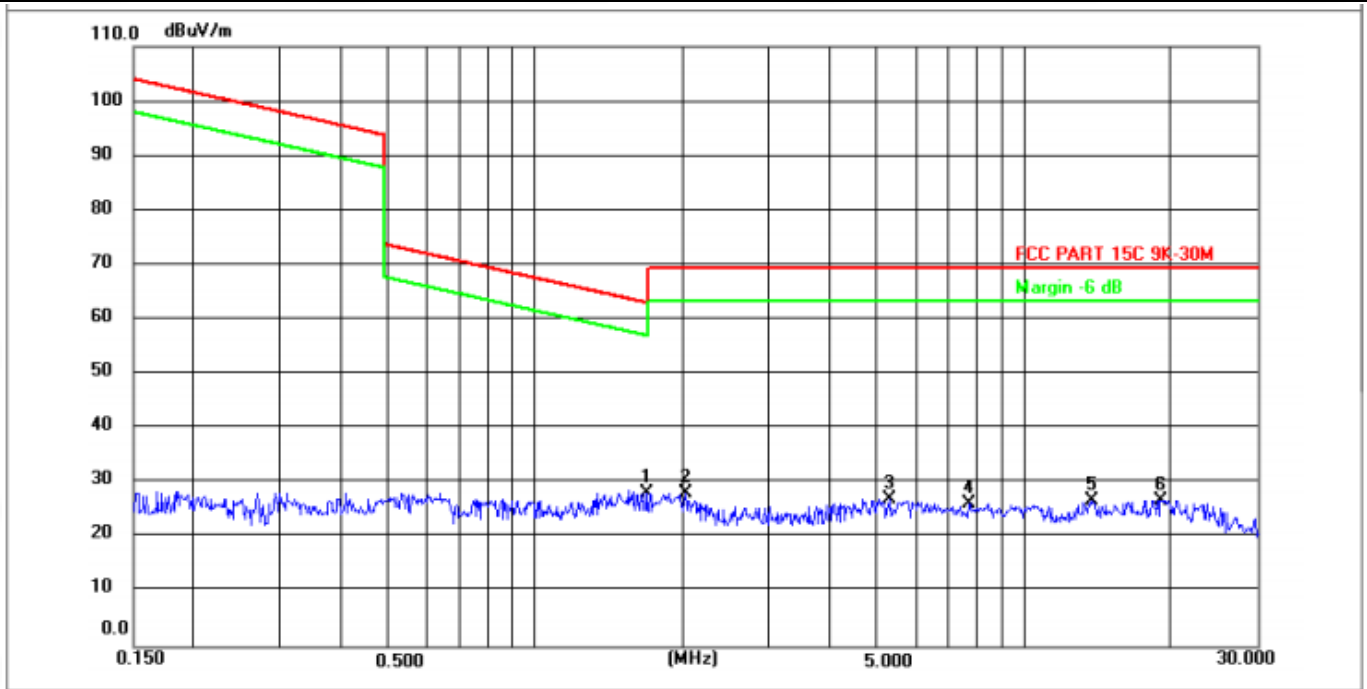
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0095	72.94	-31.44	41.50	128.03	-86.53	peak	P
2	0.0190	68.90	-31.43	37.47	122.01	-84.54	peak	P
3	0.0302	80.12	-31.42	48.70	117.99	-69.29	peak	P
4	0.0570	70.52	-31.40	39.12	112.48	-73.36	peak	P
5	0.0933	75.21	-31.17	44.04	108.20	-64.16	peak	P
6 *	0.1276	92.22	-31.08	61.14	105.48	-44.34	peak	P

TM4 / Polarization: Coaxial



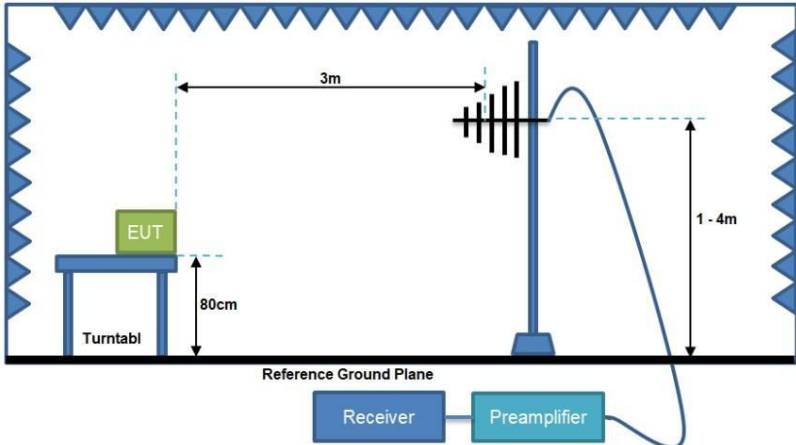
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	1.6450	55.53	-27.81	27.72	63.31	-35.59	peak	P
2	2.0280	54.87	-27.02	27.85	69.50	-41.65	peak	P
3	3.6320	54.00	-23.71	30.29	69.50	-39.21	peak	P
4	5.5053	49.28	-19.80	29.48	69.50	-40.02	peak	P
5	6.8958	44.06	-16.89	27.17	69.50	-42.33	peak	P
6	26.0701	55.71	-29.63	26.08	69.50	-43.42	peak	P

TM4 / Polarization: Coplanar



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	1.6846	55.85	-27.75	28.10	63.10	-35.00	peak	P
2	2.0280	55.32	-27.02	28.30	69.50	-41.20	peak	P
3	5.3190	47.25	-20.20	27.05	69.50	-42.45	peak	P
4	7.7073	41.52	-15.20	26.32	69.50	-43.18	peak	P
5	13.7315	56.94	-30.19	26.75	69.50	-42.75	peak	P
6	19.0714	56.78	-29.85	26.93	69.50	-42.57	peak	P

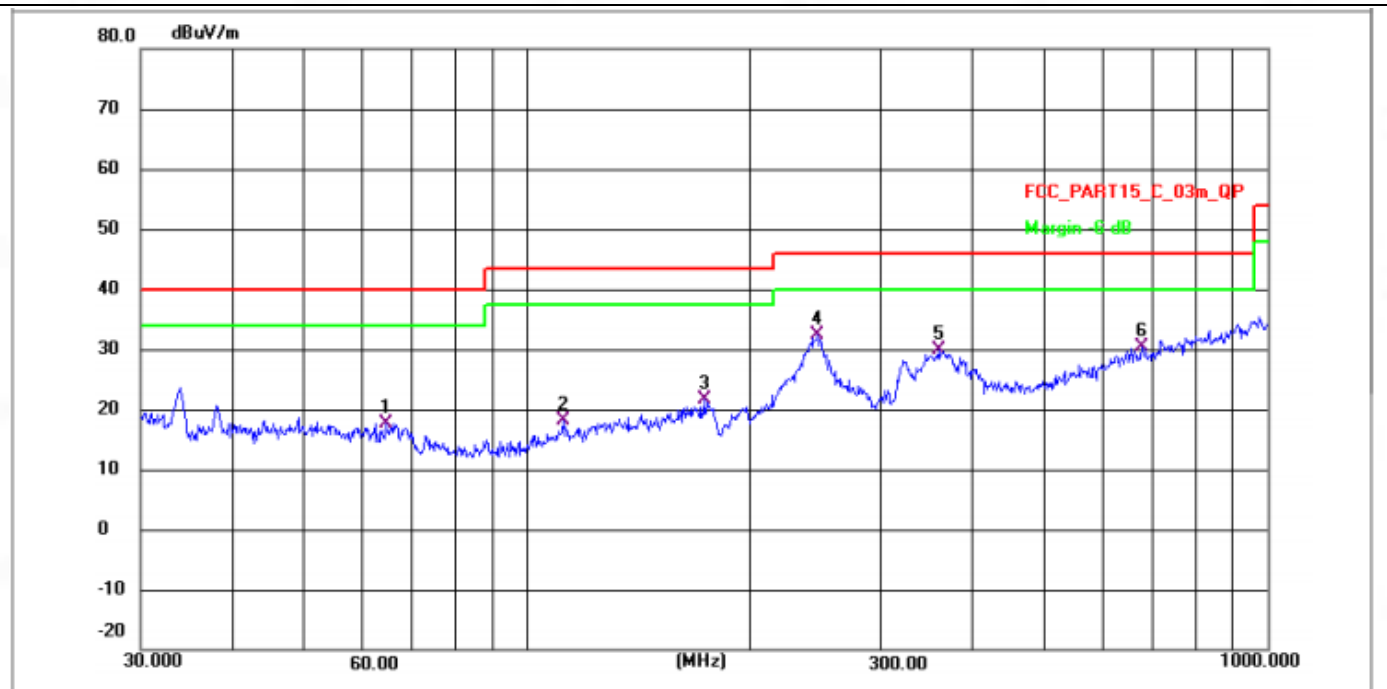
5.5 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209		
Test Method:	ANSI C63.10-2020 section 6.5		
Test Limit:	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
	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. 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. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.		
Procedure:	ANSI C63.10-2020 section 6.5		
Test Setup:			
Operating Environment:			
Temperature:	24.3 °C		
Humidity:	49.7 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	3.85 V from battery		

5.5.1 Test Data

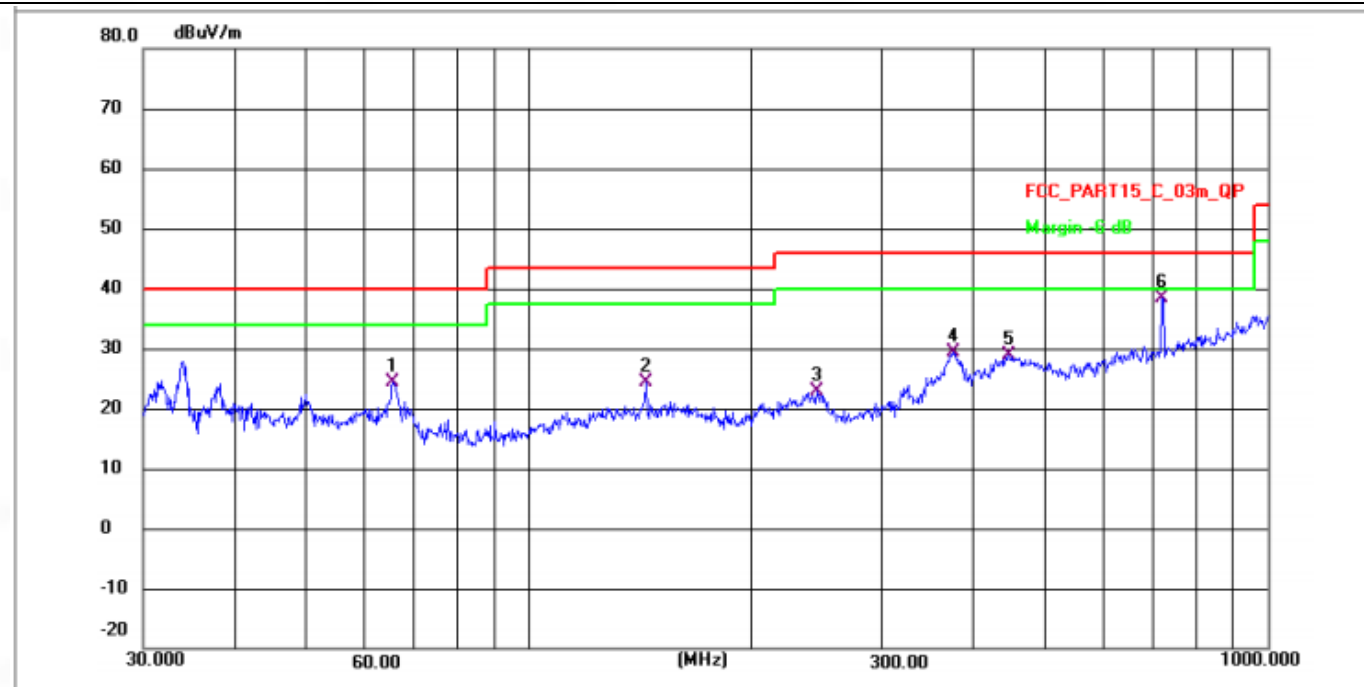
Remark: The report only reflects the worst test data.

TM4 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	64.4331	27.10	-9.44	17.66	40.00	-22.34	QP	P
2	111.7380	45.79	-27.77	18.02	43.50	-25.48	QP	P
3	173.2051	48.70	-27.06	21.64	43.50	-21.86	QP	P
4 *	246.8149	58.70	-26.30	32.40	46.00	-13.60	QP	P
5	359.1860	55.11	-25.25	29.86	46.00	-16.14	QP	P
6	675.2080	53.12	-22.64	30.48	46.00	-15.52	QP	P

TM4 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	65.3431	33.85	-9.44	24.41	40.00	-15.59	QP	P
2	143.8295	51.74	-27.39	24.35	43.50	-19.15	QP	P
3	245.0900	49.14	-26.31	22.83	46.00	-23.17	QP	P
4	374.6225	54.56	-25.12	29.44	46.00	-16.56	QP	P
5	446.4140	53.52	-24.53	28.99	46.00	-17.01	QP	P
6 *	719.1995	60.81	-22.31	38.50	46.00	-7.50	QP	P

6 Test Setup Photos

Please refer to the Appendix I Test Setup Photos

7 EUT Constructional Details (EUT Photos)

Please refer to the Appendix II External Photos & Appendix III External Photos



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--END OF REPORT--