

RF Test Report

For

Applicant name: Evolved Novelties, Inc
Address: 20525 Nordhoff St Unit 4, Chatsworth CA 91311
EUT name: Recreational Adult Sex Toys
Brand name: N/A
Model number: EN-RD-6404-2 (221744298)
Series model number: Refer to section 2
FCC ID: 2BVOH-ENRD64042

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: BTF260402R00901
Test standards: 47 CFR Part 15.231
Test conclusion: Pass

Date of sample receipt: 2026-04-02
Test date: 2026-04-02 to 2026-04-28
Date of issue: 2026-04-28
Test by:

Sean He/ Tester

Prepared by:

Chris Liu

Chris Liu / Project engineer



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	2026-04-28	Original
Note: <i>Once the revision has been made, then previous versions reports are invalid.</i>		

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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.
- **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:	Evolved Novelties, Inc
Address:	20525 Nordhoff St Unit 4, Chatsworth CA 91311

2.2 Manufacturer Information

Company name:	Evolved Novelties, Inc
Address:	20525 Nordhoff St Unit 4, Chatsworth CA 91311

2.3 Factory Information

Company name:	Evolved Novelties, Inc
Address:	20525 Nordhoff St Unit 4, Chatsworth CA 91311

2.4 General Description of Equipment under Test (EUT)

EUT name:	Recreational Adult Sex Toys
Under test model name:	EN-RD-6404-2 (221744298)
Series model name:	EN-RD-6411-2 (221744218) , GX-RD-7517-2 (221500646) , GX-RD-7487-2 (221500757) , GX-RD-7500-2 (221500531) , GX-RD-7494-2 (221500869) , GX-RS-7869-2 (531102876) , GX-RS-8217-2 (221835389) , 229441174, 229441157
Description of model name differentiation:	The transmitter is the same, but the corresponding receiver has a different appearance
Rating:	DC 3V from battery

2.5 Technical Information

Operation Frequency:	433.925MHz
Channel numbers:	1
Modulation technology:	ASK
Antenna type:	PCB ANT
Antenna gain:	-0.58dBi

3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.231: Periodic operation in the band 40.66-40.70 MHz and above 70 MHz

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

3.2 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.231	47 CFR 15.203	PASS
20dB Bandwidth	47 CFR Part 15.231	47 CFR 15.231(c)	PASS
Dwell Time	47 CFR Part 15.231	47 CFR 15.231(a)(1) & (a)(2)	PASS
Duty Cycle	47 CFR Part 15.231	47 CFR 15.231(b) & (e)	PASS
Field Strength of The Fundamental Signal	47 CFR Part 15.231	47 CFR 15.231(b)	PASS
Radiated Emission (below 1GHz)	47 CFR Part 15.231	47 CFR 15.231	PASS
Radiated Emission (above 1GHz)	47 CFR Part 15.231	47 CFR 15.231	PASS
Remark: 1. Pass: Meet the requirements. 2. N/A: not applicable.			

3.3 Additions to, deviations, or exclusions from the method

None

4 Test Configuration

4.1 Test Equipment List

Duty Cycle Field Strength of The Fundamental Signal Radiated Emission (below 1GHz) Radiated Emission (above 1GHz) 20dB Bandwidth Dwell Time					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020A	MY50410020	2025-10-17	2026-10-16
Programmable Constant Temperature And Humidity Test Chamber	ZZCKONG	ZZ-K02A	20210928007	2025-10-17	2026-10-16
RF shielding box	Yinuoxin Electronics	50*50*50 cm	/	2025-05-26	2026-05-25
Test Software	Frad	EZ_EMC	Version: FA-03A2 RE+	/	/
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
Preamplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9744	00246	2025-05-26	2026-05-25
BELOW-Cable	REBES Talent	9K1G	21101576	2025-08-23	2026-08-22
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2025-10-18	2026-10-17
Preamplifier (1GHz ~ 18GHz)	Schwarzbeck	BBV9718D	00008	2025-10-18	2026-10-17
Preamplifier	TSTPASS	LNA10180G45	TS2215007	2025-05-26	2026-05-25
ABOVE-Cable	REBES Talent	1~18G	21101558	2025-08-23	2026-08-22
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	2025-08-23	2026-08-22
ABOVE-Cable1	REBES Talent	18~40G	21101687	2025-08-23	2026-08-22

4.2 Test Auxiliary Equipment

The EUT has been tested as an independent unit.

4.3 Test Modes

No.	Test Modes
-----	------------

TM1	TX Mode
-----	---------

4.4 Test software

Test software:	Version:	Power Class:
Manual operation transmission	1.0	Default

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.
Operating Environment:	
Temperature:	24.5 °C
Humidity:	51 %
Atmospheric Pressure:	101.1 mbar
Test voltage:	DC 3V From battery

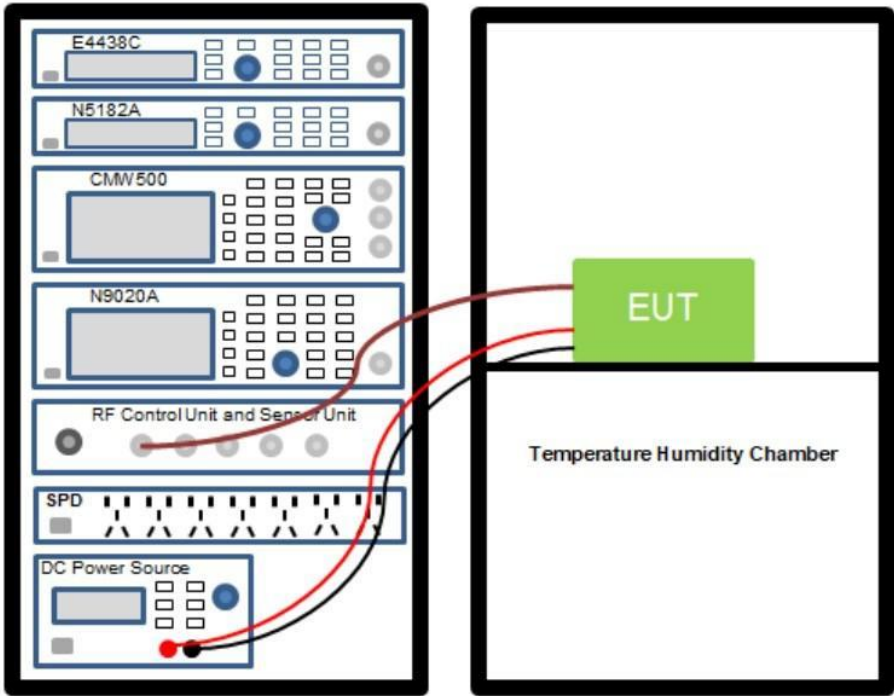
5.1.1 Conclusion

The antenna is an FPC Antenna which permanently attached, and the best case gain of the antenna is -0.58 dBi. See product internal photos for details.

6 Radio Spectrum Matter Test Results (RF)

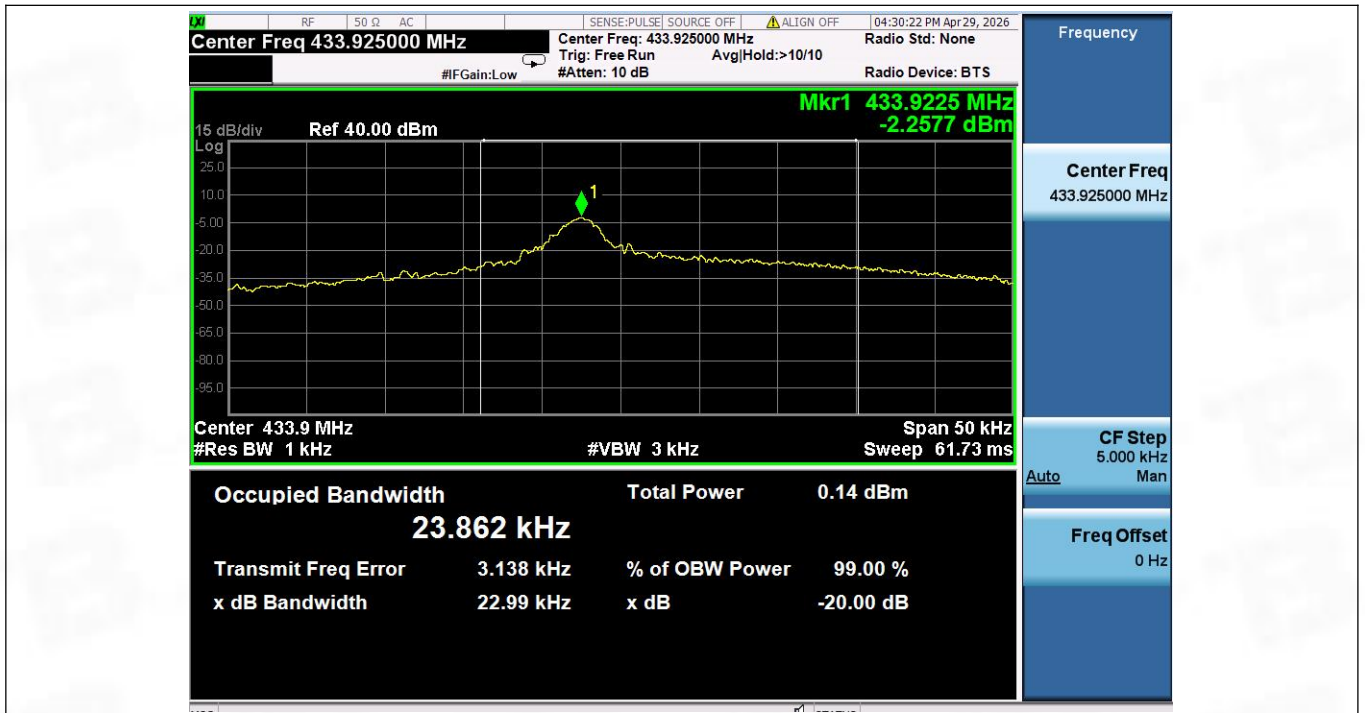
6.1 20dB Bandwidth

Test Requirement:	47 CFR 15.231(c)
Test Method:	ANSI C63.10-2020, section 6.9.2
Test Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.
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 $[(\text{reference value}) - xx]$. 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

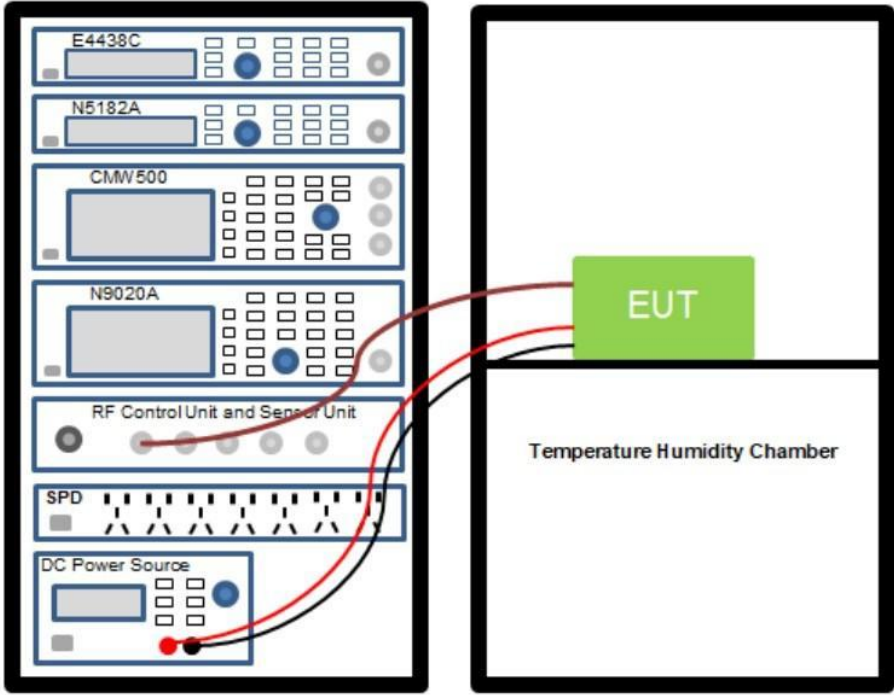
	frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “ixx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side 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:	24.5 °C
Humidity:	51 %
Atmospheric Pressure:	101.1 mbar
Test voltage:	DC 3V From battery

6.1.1 Test Data

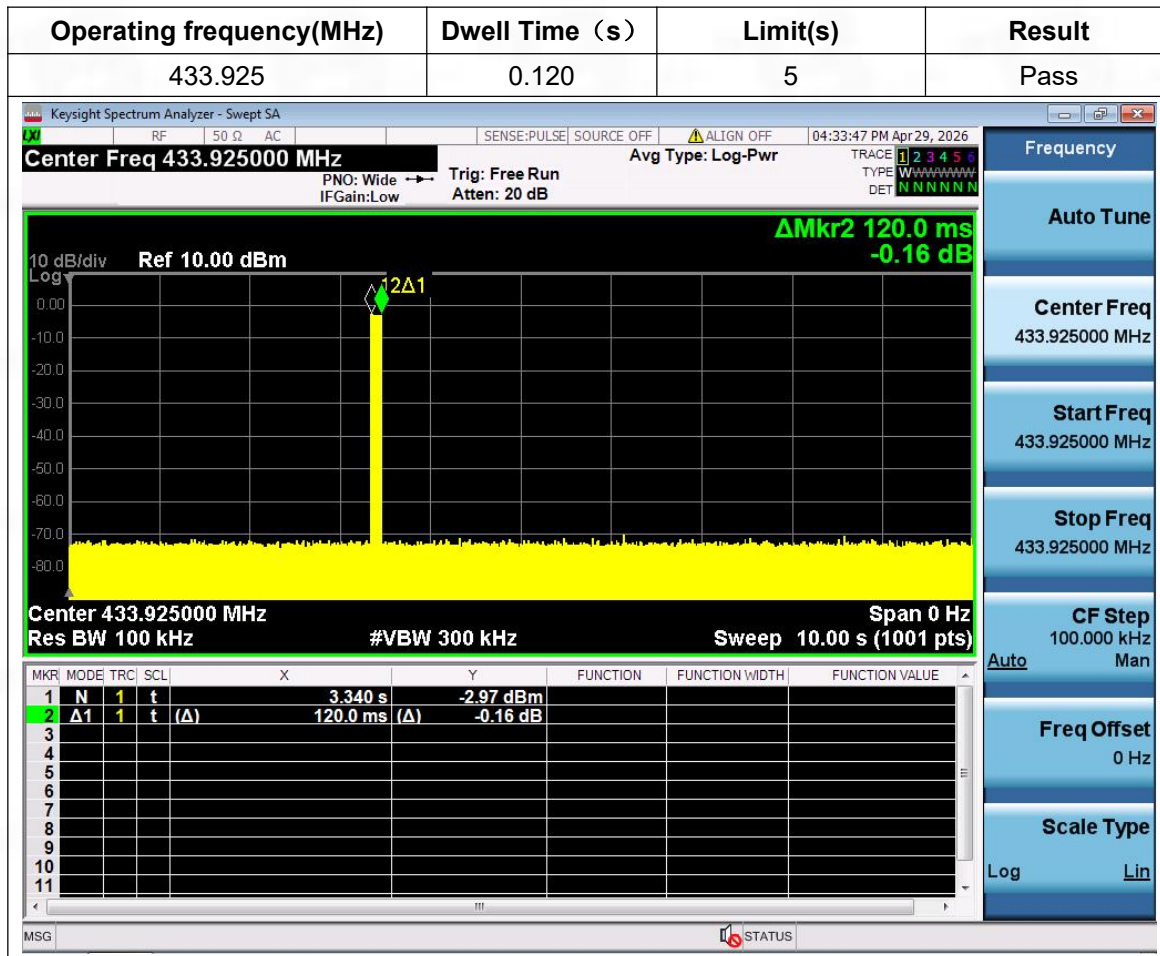
Operating frequency (MHz)	20dB Bandwidth(MHz)	Limit(MHz)	Result
433.925	0.02299	1.084	Pass



6.2 Dwell Time

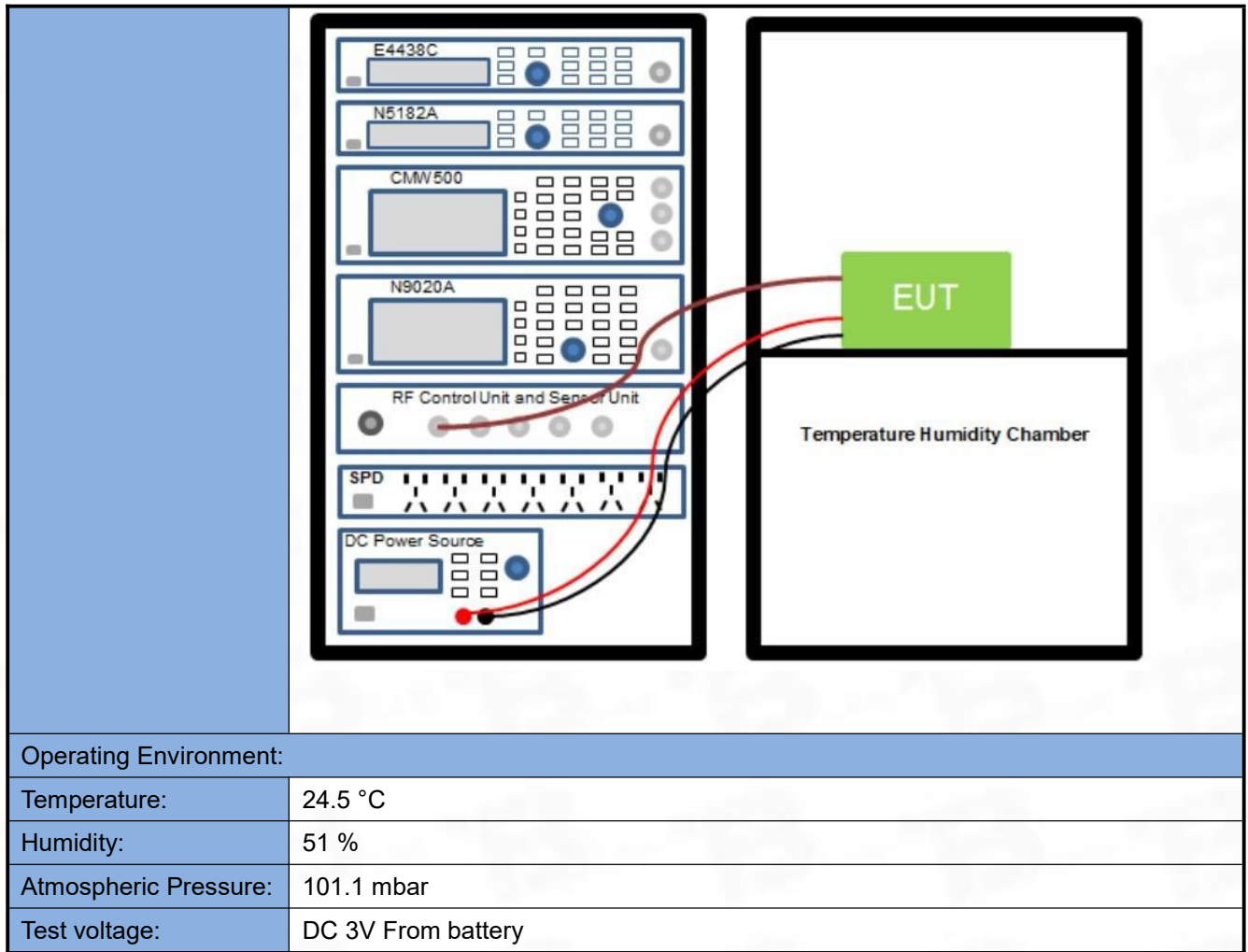
Test Requirement:	47 CFR 15.231(a)(1) & (a)(2)
Test Method:	ANSI C63.10-2020, Section 7.4
Test Limit:	(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released. (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
Procedure:	For evaluation of periodic operation characteristics, the following procedure may be used: a) Trigger the spectrum analyzer sweep on the RF waveform of the unlicensed wireless device. b) Set the spectrum analyzer sweep time greater than the specified time for periodic operation. c) Manually activate and deactivate the unlicensed wireless device and confirm that it ceases transmission within the specified time of deactivation. d) Document the test results. e) Verify and document that periodic transmissions at regular predetermined intervals do not exist, except where regulatory requirements allow polling or supervision transmissions, including data, to determine system integrity. Compliance is addressed by an attestation supported by the equipment theory of operation.
Test Setup:	
Operating Environment:	
Temperature:	24.5 °C
Humidity:	51 %
Atmospheric Pressure:	101.1 mbar
Test voltage:	DC 3V From battery

6.2.1 Test Data



6.3 Duty Cycle

Test Requirement:	47 CFR 15.231(b) & (e)
Test Method:	ANSI C63.10-2020, Section 7.5
Test Limit:	No limit, only for Report Use.
Procedure:	a) Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time. b) Couple the final radio frequency output signal to the input of a spectrum analyzer. This may be performed by a radiated, direct connection (i.e., conducted) or by a “near-field” coupling method. The signal received shall be of sufficient level to trigger adequately the spectrum analyzer sweep display. NOTE—If the bandwidth of the pulse is greater than the RBW of the spectrum analyzer, then a similar measurement may be performed using a wideband digital storage oscilloscope (DSO). c) Adjust the center frequency of the spectrum analyzer to the center of the RF signal. d) Set the spectrum analyzer for ZERO SPAN. e) Adjust the SWEEP TIME to obtain at least a 40 ms period of time on the horizontal display axis of the spectrum analyzer. f) If the pulse train is periodic (i.e., consists of a series of pulses that repeat in a characteristic pattern over a constant time period), and the period (T) is less than or equal to 40 ms, then: 1) Set the TRIGGER on the spectrum analyzer to capture at least one period of the pulse train, including any blanking intervals. 2) Determine the total maximum pulse “ON time” (t_{ON}) over one period of the pulse train. An example of a periodic pulse train and the associated period is shown in Figure 14. If the pulse train contains pulses of different widths, then t_{ON} is determined by summing the duration of all of the pulses within the pulse train [i.e., $t_{ON} = \Sigma(t_1 + t_2 + \dots t_n)$]. 3) The duty cycle is then determined by dividing the total maximum “ON time” by the period of the pulse train (t_{ON}/T). g) If the pulse train is nonperiodic or is periodic with a period that exceeds 100 ms, or as an alternative to step f), then: 1) Set the TRIGGER on the spectrum analyzer to capture the greatest amount of pulse “ON time” over 40 ms. 2) Find the 100 ms period that contains the maximum “on time”; this may require summing the duration of multiple pulses as described in step f2). 3) Determine the duty cycle by dividing the total maximum “ON time” by 400 ms ($t_{ON}/400$ ms).
Test Setup:	

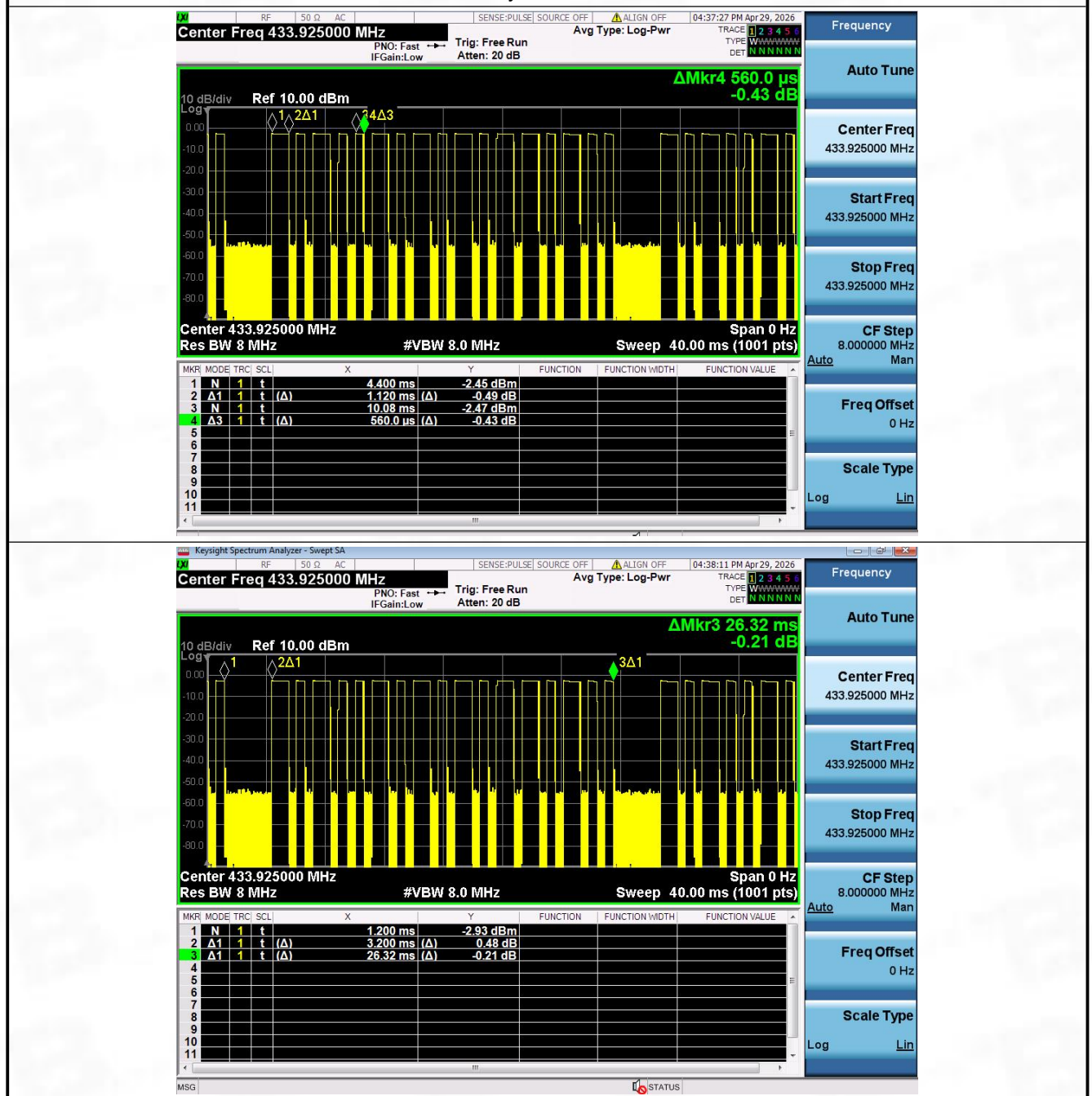


6.3.1 Test Data

Type of Pules	Width of Pules (ms)	Quantity of Pules (pcs)	Transmission Time (ms)	Total Time (Ton) (ms)
Pules 1	1.12	8	8.96	14
Pules 2	0.56	9	5.04	
Test Period (Tp) (ms)	Total Time (Ton) (ms)	Duty Cycle (%)		Duty Cycle Correction Factor(dB)
26.32	14	53.19		2.74

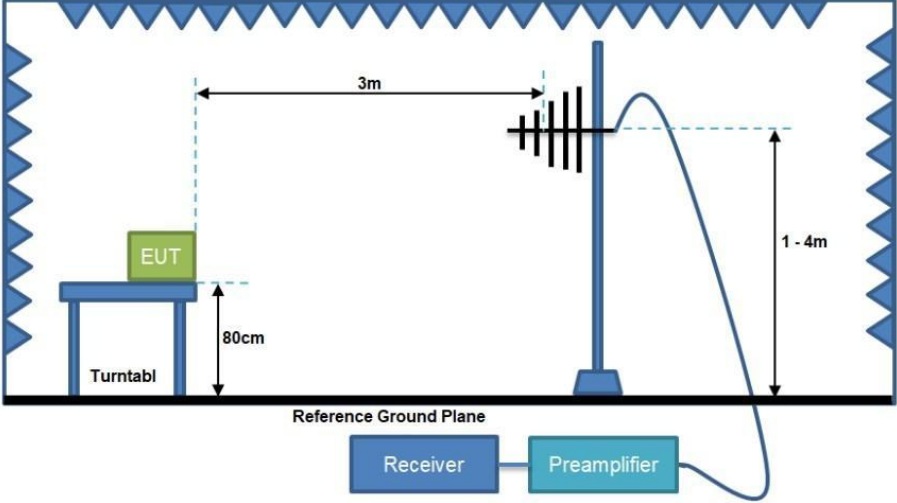
Note 1: Duty Cycle Factor=10 log (100%/Duty Cycle)

Note 2: The maximum reference value of the test cycle is 40ms.



6.4 Field Strength of The Fundamental Signal

Test Requirement:	47 CFR 15.231(b)		
Test Method:	ANSI C63.10-2020, Section 6.5		
Test Limit:	Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
	40.66-40.70	2,250	225
	70-130	1,250	125
	130-174	¹ 1,250 to 3,750	¹ 125 to 375
	174-260	3,750	375
	260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
	Above 470	12,500	1,250
	¹ Linear interpolations. (1) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.		
Procedure:	Below 1GHz: a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. Above 1GHz:		

	a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. 3. As shown in this section, for frequencies above 1GHz, the field strength limits 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 the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
Test Setup:	
Operating Environment:	

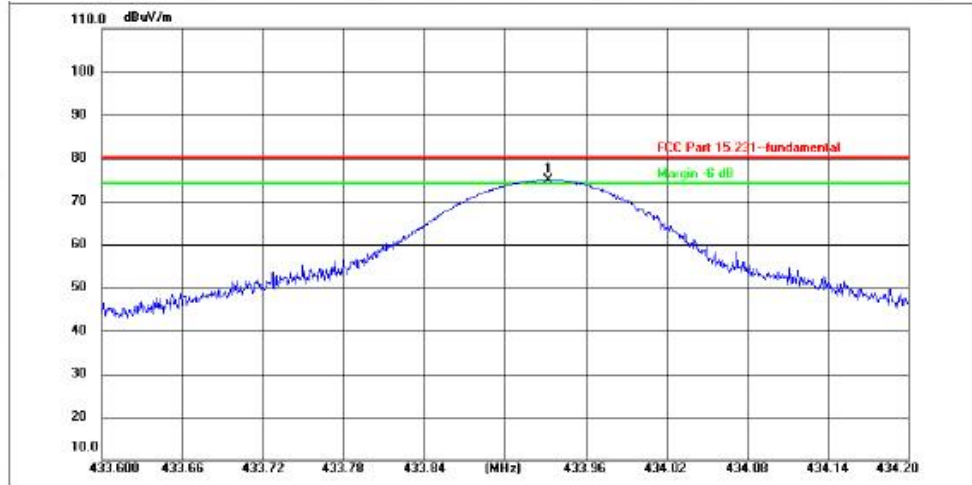
Temperature:	24.5 °C
Humidity:	51 %
Atmospheric Pressure:	101.1 mbar
Test voltage:	DC 3V From battery

6.4.1 Test Data

Polarization	Level(dBuV/m)	Level(dBm)
Horizontal	74.95	-17.51
Vertical	76.76	-15.70

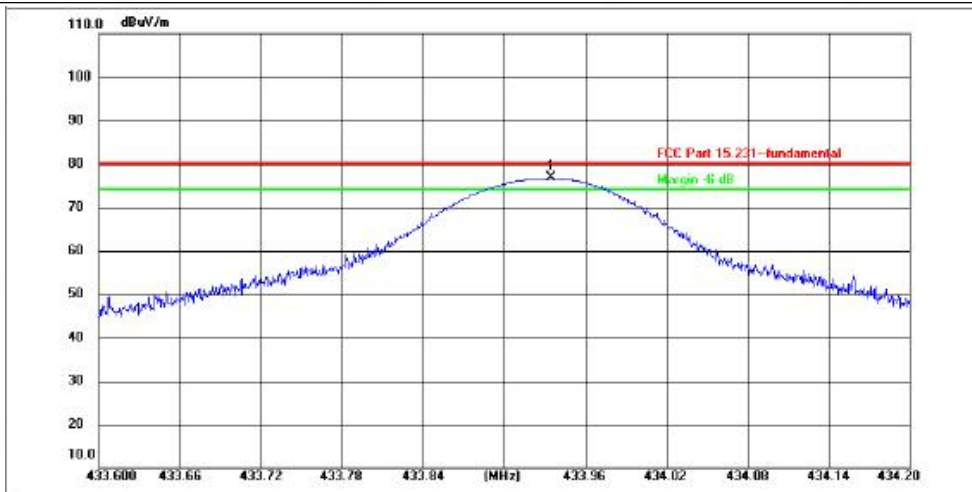
Note 1: Level(dBm)=Level(dBuV/m)-95.2+Duty Cycle Factor

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	433.9327	77.88	-2.93	74.95	80.22	-5.27	peak	P

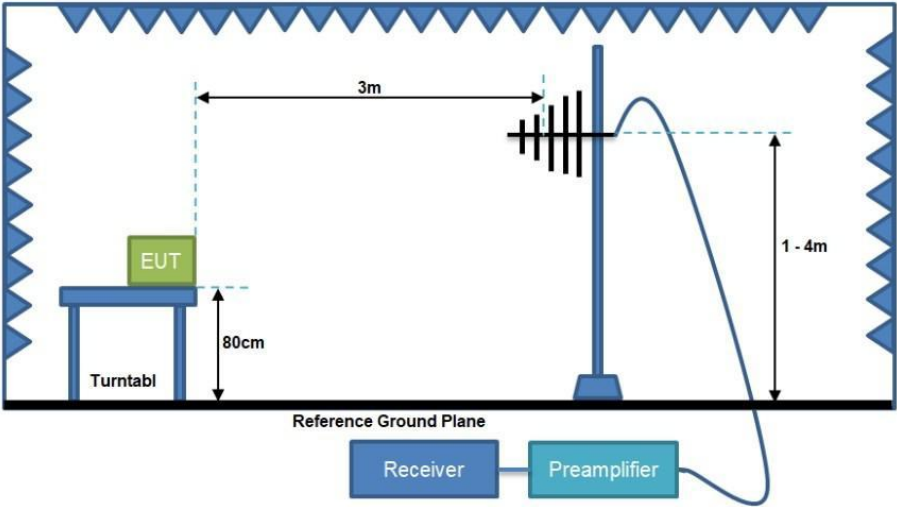
TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	433.9348	79.69	-2.93	76.76	80.22	-3.46	peak	P

6.5 Radiated Emission (below 1GHz)

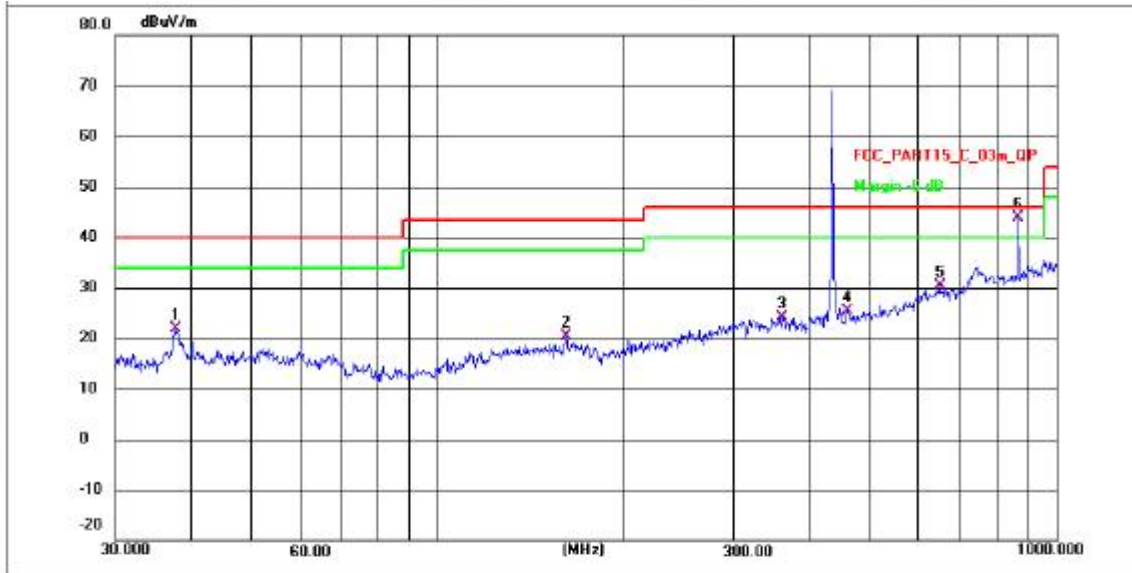
Test Requirement:	47 CFR 15.231		
Test Method:	ANSI C63.10-2020, Section 6.5		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 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.			
Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.		

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.	
Test Setup:	
Operating Environment:	
Temperature:	24.5 °C
Humidity:	51 %
Atmospheric Pressure:	101.1 mbar
Test voltage:	DC 3V From battery

6.5.1 Test Data

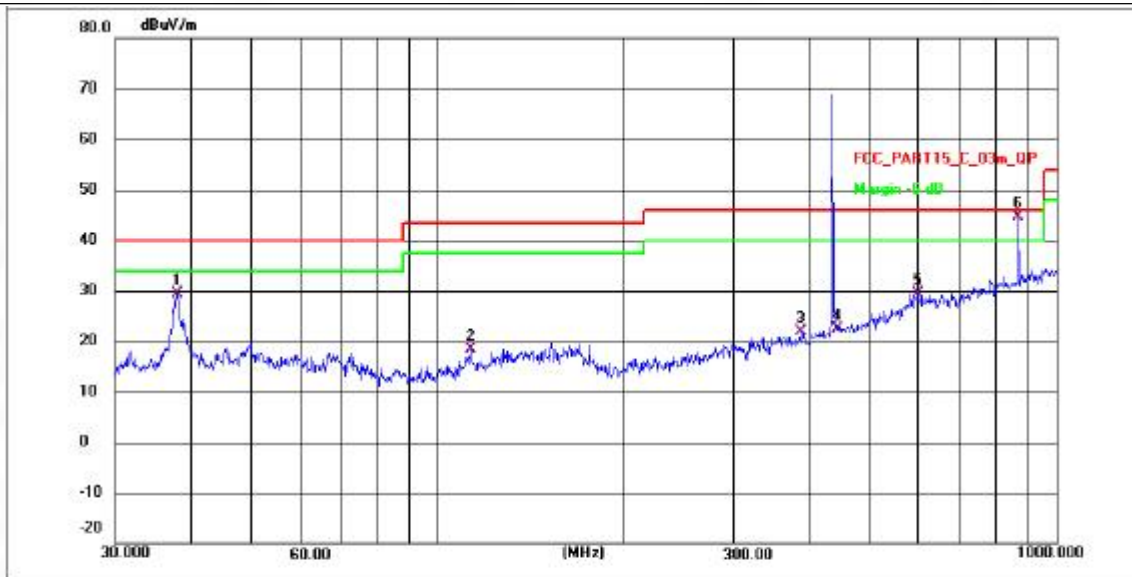
Remark: The report only reflects the test data of worst mode.

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	37.6797	31.87	-10.09	21.78	40.00	-18.22	QP	P
2	161.1913	47.49	-27.19	20.30	43.50	-23.20	QP	P
3	360.4476	49.39	-25.24	24.15	46.00	-21.85	QP	P
4	460.7271	49.88	-24.42	25.46	46.00	-20.54	QP	P
5	648.5216	53.20	-22.87	30.33	46.00	-15.67	QP	P
6 *	869.1302	65.06	-21.18	43.88	46.00	-2.12	QP	P

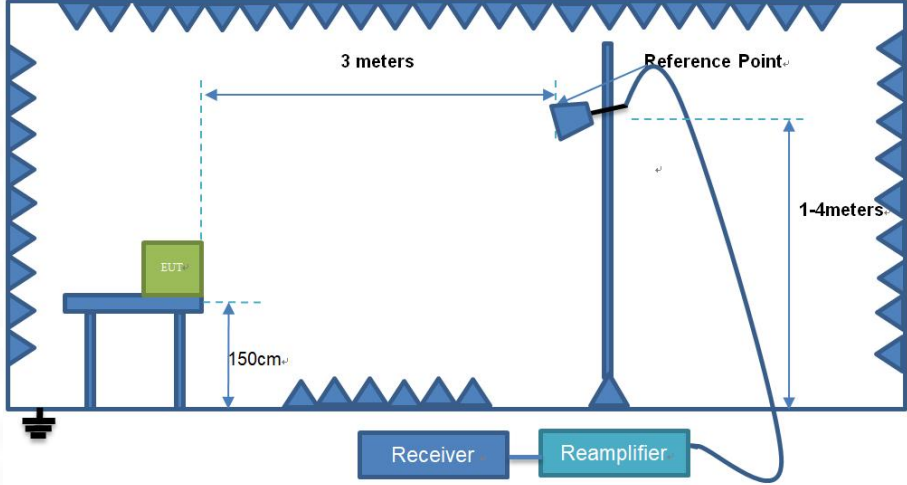
TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	37.8121	39.57	-10.09	29.48	40.00	-10.52	QP	P
2	113.3162	46.04	-27.75	18.29	43.50	-25.21	QP	P
3	387.9920	46.90	-25.01	21.89	46.00	-24.11	QP	P
4	442.5177	46.94	-24.57	22.37	46.00	-23.63	QP	P
5	596.1772	52.75	-23.28	29.47	46.00	-16.53	QP	P
6 *	869.1302	65.84	-21.18	44.66	46.00	-1.34	QP	P

6.6 Radiated Emission (above 1GHz)

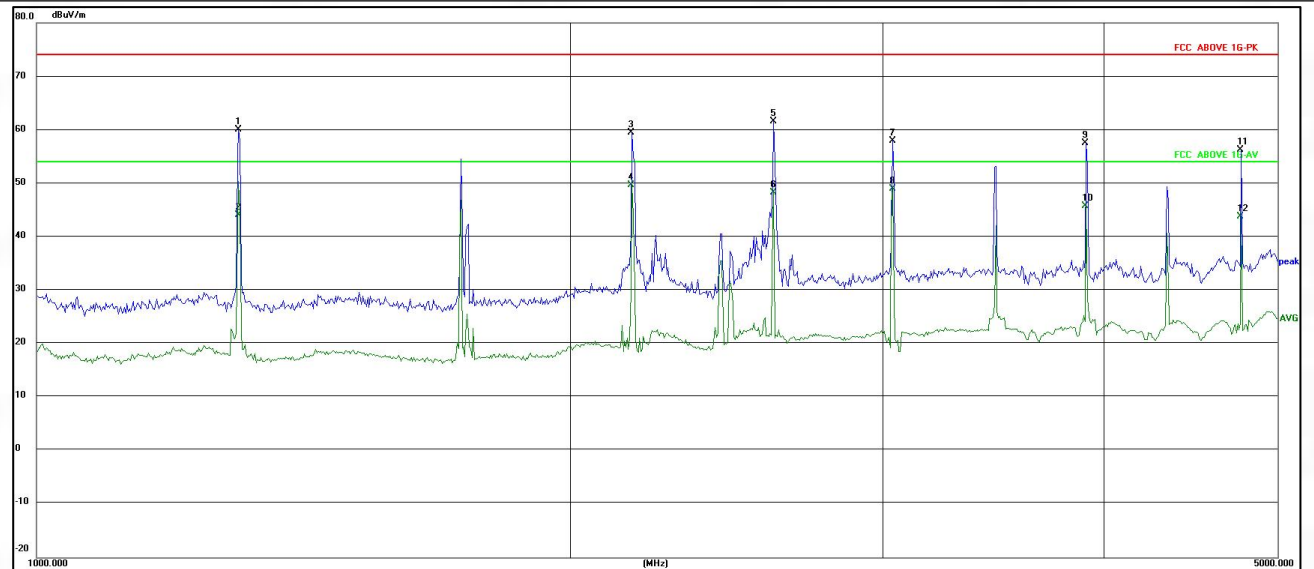
Test Requirement:	47 CFR 15.231		
Test Method:	ANSI C63.10-2020, Section 6.6		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 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.			
Procedure:	a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit		

	need not be reported. 3. As shown in this section, for frequencies above 1GHz, the field strength limits 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 the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
Test Setup:	 The diagram illustrates the test setup within an anechoic chamber. An Equipment Under Test (EUT) is placed on a stand at a height of 150cm. A Reference Point antenna is positioned 3 meters away from the EUT. The antenna is connected to a Receiver and a Reamplifier. The distance from the ground to the antenna is indicated as 1-4 meters.
Operating Environment:	
Temperature:	24.5 °C
Humidity:	51 %
Atmospheric Pressure:	101.1 mbar
Test voltage:	DC 3V From battery

6.6.1 Test Data

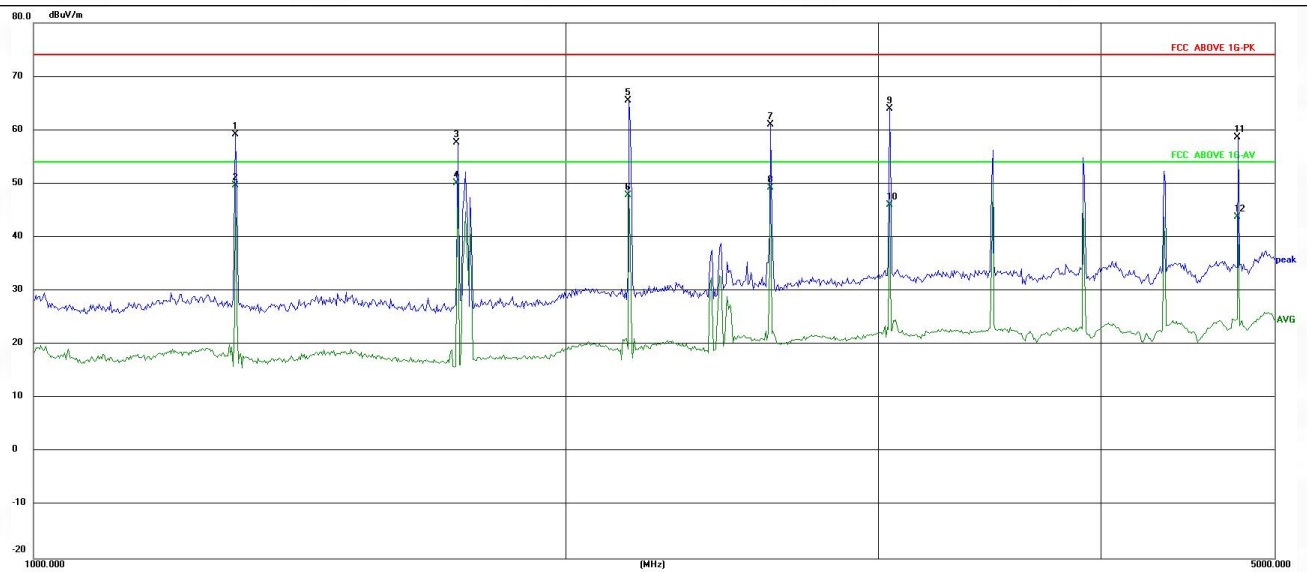
Remark: The report only reflects the test data of worst mode.

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1301.013	85.74	-25.74	60.00	74.00	-14.00	peak
2	1303.108	69.84	-25.74	44.10	54.00	-9.90	AVG
3	2168.725	83.97	-24.52	59.45	74.00	-14.55	peak
4 *	2168.725	74.14	-24.52	49.62	54.00	-4.38	AVG
5	2603.381	85.47	-23.93	61.54	74.00	-12.46	peak
6	2603.381	72.19	-23.93	48.26	54.00	-5.74	AVG
7	3038.357	81.27	-23.34	57.93	74.00	-16.07	peak
8	3038.357	72.29	-23.34	48.95	54.00	-5.05	AVG
9	3905.513	79.32	-21.81	57.51	74.00	-16.49	peak
10	3905.513	67.60	-21.81	45.79	54.00	-8.21	AVG
11	4775.835	77.03	-20.76	56.27	74.00	-17.73	peak
12	4775.835	64.49	-20.76	43.73	54.00	-10.27	AVG

TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1301.013	84.90	-25.74	59.16	74.00	-14.84	peak
2	1301.013	75.45	-25.74	49.71	54.00	-4.29	AVG
3	1735.390	82.73	-25.12	57.61	74.00	-16.39	peak
4 *	1735.390	75.20	-25.12	50.08	54.00	-3.92	AVG
5	2168.725	89.99	-24.52	65.47	74.00	-8.53	peak
6	2168.725	72.34	-24.52	47.82	54.00	-6.18	AVG
7	2603.381	84.97	-23.93	61.04	74.00	-12.96	peak
8	2603.381	73.20	-23.93	49.27	54.00	-4.73	AVG
9	3038.357	87.32	-23.34	63.98	74.00	-10.02	peak
10	3038.357	69.35	-23.34	46.01	54.00	-7.99	AVG
11	4775.835	79.39	-20.76	58.63	74.00	-15.37	peak
12	4775.835	64.50	-20.76	43.74	54.00	-10.26	AVG

7 Test Setup Photos

Refer to Appendix - Test Setup Photos

8 EUT Constructional Details (EUT Photos)

Refer to Appendix II External Photos & Appendix III Internal Photos



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-- END OF REPORT --