



Report No.: 86260802184

Date: July 14, 2026

Page 1 of 33

RF TEST REPORT

Applicant : Huzhoushi Dingchen Trading Co., Ltd.

Address: wuxingqu huanzhugonggyeyuanqu jinsuolu 188hao 9zhuang 215shi, huzhoushi, Zhejiangsheng, China

Manufacturer: Huzhoushi Dingchen Trading Co., Ltd.

Address: wuxingqu huanzhugonggyeyuanqu jinsuolu 188hao 9zhuang 215shi, huzhoushi, Zhejiangsheng, China

EUT Name: Camping lamp

Trade mark: /

Model: TL2000

FCC ID: 2A6WF-TL2000

Power supply: DC 3V battery

Sample Received Date: Jul. 2, 2026

Test Date: Jul. 2, 2026~Jul. 8, 2026

Applicable Standards: FCC 47, CFR Part 15.231

Test Result Pass

Prepared by: *Jojo Wu*

Jojo Wu/Project Engineer

Approved by: *Bruce Zhang*

Bruce Zhang/Technical Manager

HD Testing Technology (GuangDong) Co., Ltd.

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Revision History

Version	Date of Issue	Description
V00	Jul. 14, 2026	Original Version

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1. TEST SUMMARY

FCC Part 15C	Description of Test	Result
15.203	Antenna Requirement	Pass
15.231(a)	Manually Activated Transmitter	Pass
15.231(c)	20dB and 99% Bandwidth	Pass
15.231(b)& 15.231(b)	Field Strength of Fundamental and Radiated Spurious Emissions	Pass
--	Duty cycle	Pass
15.207	Conducted Emission on AC Mains	N/A

Note:N/A means not applicable.

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2. TEST SITE

2.1. Test Facility

HD Testing Technology (GuangDong) Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China

A2LA Certificate Number.:7547.01

FCC Designation Number:CN1419

FCC Test Firm Registration Number:361541

2.2. Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission(150KHz-30MHz)	$\pm 3.2\text{dB}$
Radiated Emission(9kHz-30MHz)	$\pm 3.5\text{dB}$
Radiated Emission(30MHz-1GHz)	$\pm 4.7\text{dB}$
Radiated Emission (1GHz-6GHz)	$\pm 5.1\text{dB}$
Radiated Emission (6GHz-18GHz)	$\pm 5.1\text{dB}$
Radiated Emission (18Hz-40GHz)	$\pm 5.3\text{dB}$
Bandwidth	$\pm 70\text{Hz}$

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2.3. Test Environment Condition

Ambient Temperature:	24~25°C
Ambient Relative Humidity:	55~60 %

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3. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	HDT-EM-003	Mar. 02,2026	1 Year
Pulse limiter	Rohde&Schwarz	ESH3-Z2	HDT-EM-001	Mar. 02,2026	1 Year
LISN	Rohde&Schwarz	ENV216	HDT-EM-002	Mar. 02,2026	1 Year
Shielding Room	Taihe Mao Rui Electronic Equipment Co., Ltd.	8m*4m*4m	HDT-EM-030	Oct. 12,2024	5 Year
EMI Test Receiver	Rohde&Schwarz	ESCI7	HDT-EM-005	Mar. 02,2026	1 Year
Logarithmic Periodic Broadband Antenna	SCHWARZBECK	VULB9168	HDT-EM-009	Mar. 06,2025	3 Year
Preamplifier	HP	8447F	HDT-EM-010	Mar. 02,2026	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9120D	HDT-EM-039	Mar. 06,2025	3 Year
Loop Antenna	Da Ze	ZN30900C	HDT-EM-053	May 16,2025	3 Year
Preamplifier	/	1-18-53G22	HDT-EM-040	Mar. 02,2026	1 Year
Anechoic Chamber	Taihe Mao Rui Electronic Equipment Co., Ltd.	9m*6m*6m	HDT-EM-030	Oct. 12,2024	5 Year
Signal Analyzer	Keysight	N9020A	HDT-EM-038	Mar. 02,2026	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV-40N	HDT-EM-069	Mar. 02,2026	1 Year

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18-40GHz Antenna	COM-MW	ZLB7-18-40G-7 77	HDT-EM-076	May 18,2026	1 Year
18-40GHz Preamplifier	QUANJUDA	LNA-18004000- 50G35	HDT-EM-077	May 16,2026	1 Year
Filter	WCS Technology	ZBSF6-C2400-2 483.5-294	HDT-EM-070	May 16,2026	1 Year
RF Cable	Rosenberger	/	HDT-EM-078	May 17,2025	3 Year
RF Cable	COM-MW	DCA9-2.92M800 02.92M3.6-1304	HDT-EM-079	May 17,2025	3 Year
EMI Test Software	Tonscend	JS32-CE	Version 5.0.0		
EMI Test Software	Tonscend	JS32-RE	Version 5.0.0		

Note:The attenuator is integrated into the Power Switch Box and taken into consideration during testing.

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4. EUT DESCRIPTION

Product	Camping lamp
Test Model	TL2000
Additional Model	/
Rating	DC 3V battery
FCC ID	2A6WF-TL2000
Antenna Type	PCB Antenna
Antenna Gain	1.5 dBi
Operation Frequency	433.92MHz
Number of Channels:	1
Modulation Type	ASK
Hardware Version:	V1.0
Software Version:	V1.0
Note: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity. 3) The test results in the report only apply to the tested sample.	

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4.1. Description of Test Configuration

Channel List :

Channel No.	Frequency (MHz)
1	433.92

4.2. Equipment Modifications

Any modifications installed previous to testing by Huzhoushi Dingchen Trading Co., Ltd.. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by HDT Testing Technology Co., Ltd.

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5. TEST METHODOLOGY

Radiated emission measurements were performed according to the procedures in ANSI C63.10-2020+Cor.1-2023.

5.1. EUT System Operation

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered DC 3V by adapter during the test.

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6. SETUP OF EQUIPMENT UNDER TEST

6.1. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment

No.	Equipment	Model	Serial No.	Manufacturer
1	/	/	/	/
2	/	/	/	/

Support Cable

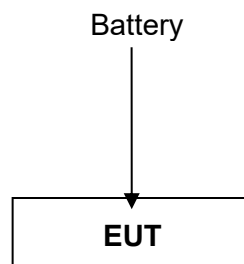
No.	Description	Shield	Length	Manufacturer
1	/	/	/	/
2	/	/	/	/

Note:

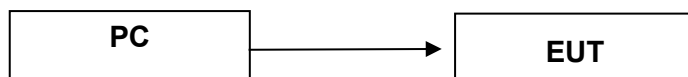
- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6.2. Block Diagram of EUT Configuration

radiated emission configuration



RF Conducted configuration



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6.3. EUT Exercise Software

Test software: This product transmits signals at a fixed frequency through key presses.

Mode	Frequency	Power setting
ASK	433.92 MHz	default

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7. TEST RESULTS AND MEASUREMENT DATA

7.1. Antenna Requirement

Test Requirement:	FCC Part 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.
Test Result:	According to the manufacturer declared, the EUT has a PCB antenna, the directional gain of antenna is 1.5 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision. Refer to EUT Photo for further details.

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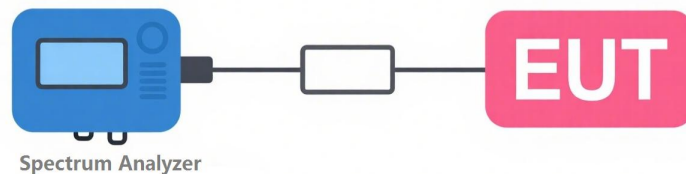
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7.2. MANUALLY ACTIVATED TRANSMITTER

Test Requirement:	FCC Part15.231 (a)
Test Mode:	Transmitting mode with modulation
Limit:	A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
Test Procedure:	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings RBW =100KHz, VBW>RBW; Span =0; Sweep Time > T(on)+5S; Detector function = peak; 4. Measure and record the results in the test report.
Test Result:	Pass

7.2.1. Test Setup



7.2.2. Test Result

TEST Frequency (MHz)	Manually Activated Transmitter (s)	Limit(s)	Result
433.92	0.24	5	Pass

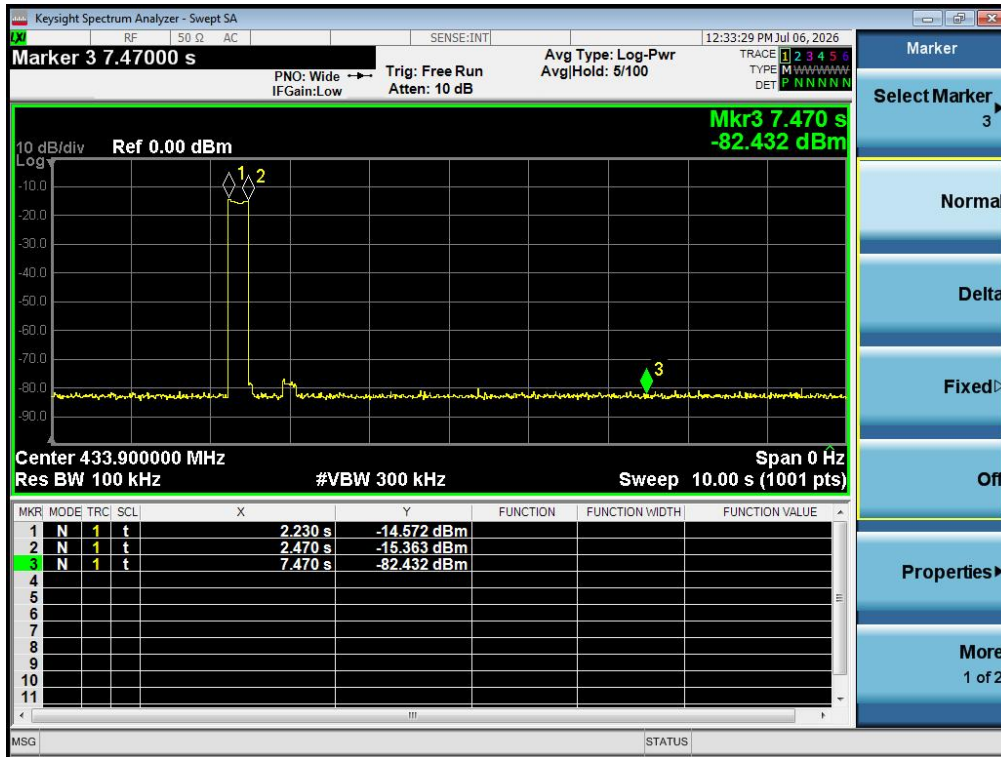
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Test Graphs

433.92MHz



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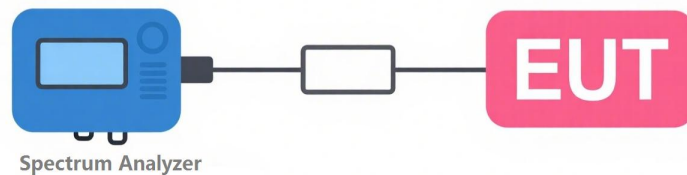
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7.3. 20% BANDWIDTH AND 99% BANDWIDTH

Test Requirement:	FCC Part15.231(c)
Test Mode:	Transmitting mode with modulation
Limit:	0.25% of the center frequency (in Range 70-900MHz) 0.5 % of the center frequency (for frequencies above 900MHz)
Test Procedure:	1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode. 2.The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used. 3.Use the following spectrum analyzer settings for 20dB Bandwidth measurement. 4.Measured 99% bandwidth.
Test Result:	Pass

7.3.1. Test Setup:



7.3.2. Test Result

TEST Frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth Limit(kHz)	Result
433.92	24.373	6.4	1084.80kHz	Pass

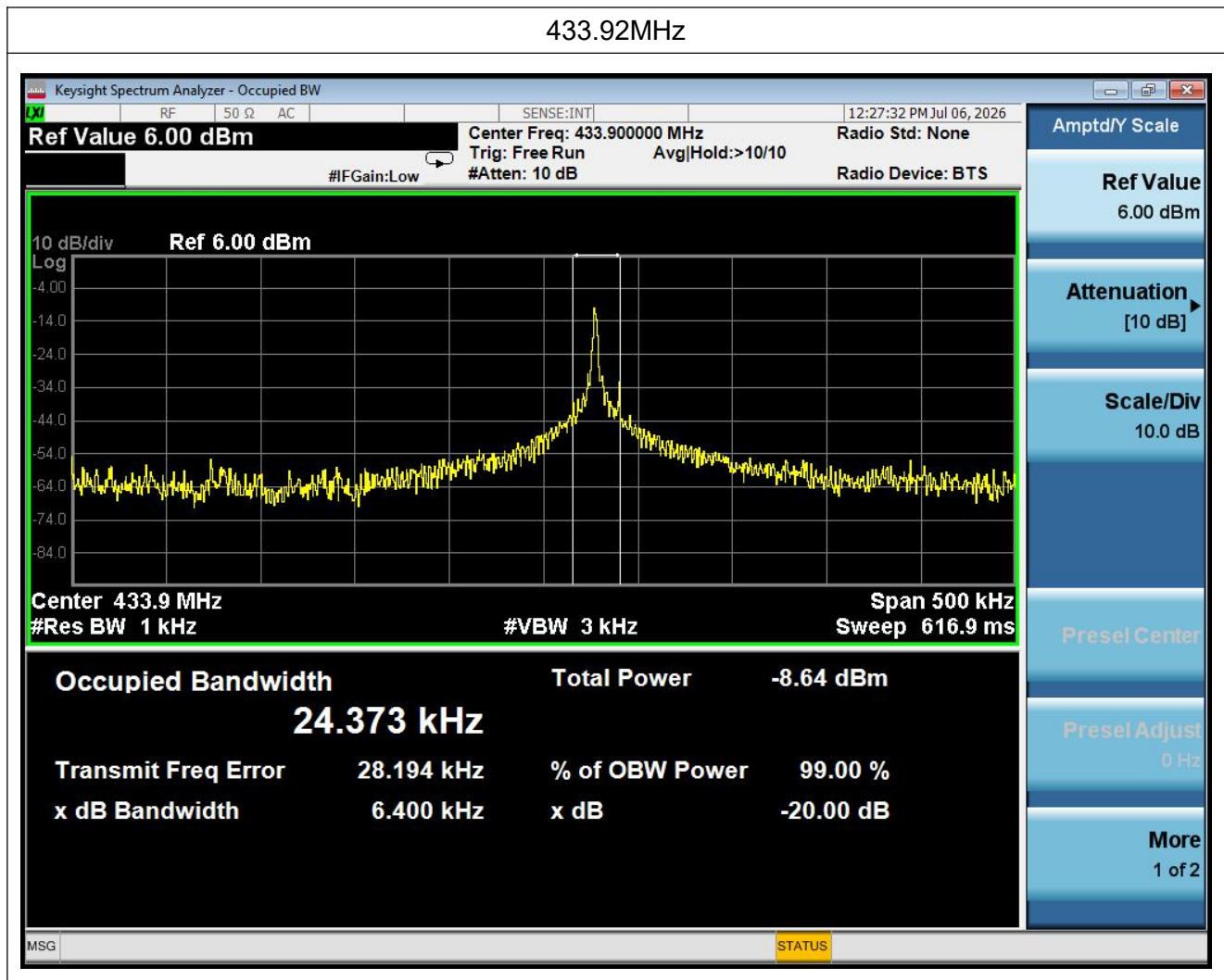
Note: Limit = $433.92\text{MHz} \times 0.25\% = 1084.80\text{ kHz}$.

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Test plots as follows



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7.4. FIELD STRENGTH OF FUNDAMENTAL AND RADIATED SPURIOUS EMISSIONS

Test Requirement:	FCC Part 15.231(b)		
Test Mode:	Transmitting mode with modulation		
Limit:	In addition to the provisions of 15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following From 15.231 (b)(3), the limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in 15.209, whichever limit permits a higher field strength.		
	FCC Part 15.231		
	Frequency Range (MHz)	Field Strength Limit (μV/m) at 3 m	Measurement Distance(meters)
	40.66~40.77	2250	225
	70~130	1250	125
	130~174	1250 to 3750	125 to 375*
	174~260	3750	375
	260-470	3750 to 12500	375 to 1250*
	Above 470	12500	1250
	*Linear interpolation with frequency, f, in MHz		
	FCC Part 15.209		
	Frequency Range	Field Strength Limit (μV/m) at 3 m	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	
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8meters above the		

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	ground at a 3 meter camber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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, quasi-peak or average method as specified and then reported in a data sheet. Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis (X, Y, Z). The worst case emissions were reported
Test Result:	Pass

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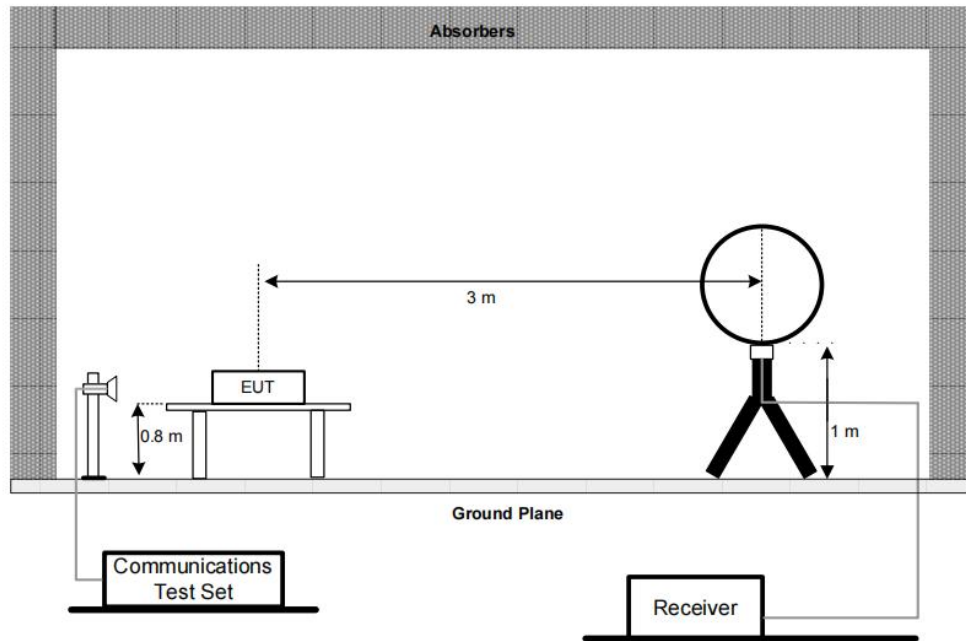
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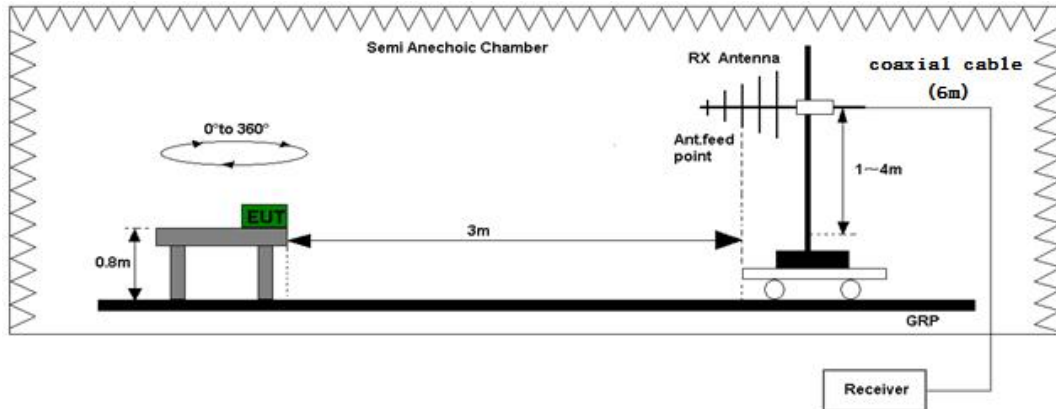
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7.4.1. Test Setup



Test set-up of radiated disturbance (Up to 30MHz)



Test set-up of radiated disturbance (30MHz to 1GHz)

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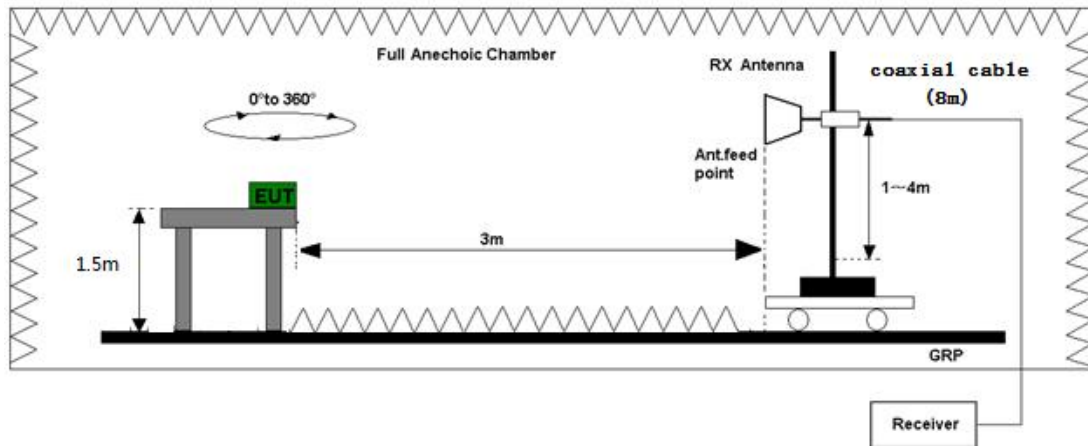
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Test set-up of radiated disturbance (Above 1GHz)

Note:

1. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

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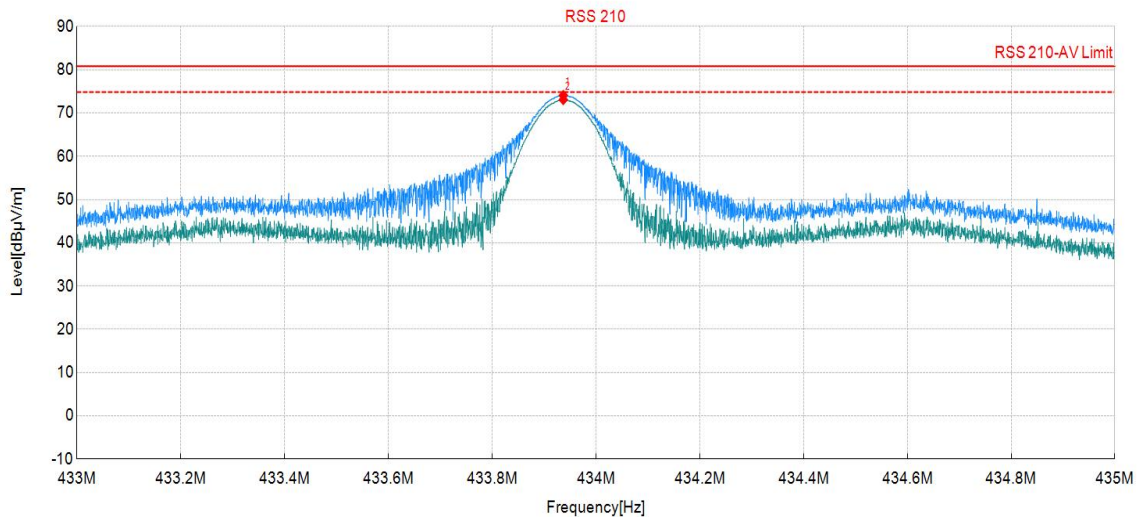
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7.4.2. Test Result

Field Strength of Fundamental Emissions

Please refer to the following diagram:

Vertical:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	433.94	87.83	74.10	-13.73	100.83	26.73	100	219	PK	Vertical	PASS
2	433.92	-	67.55	-	80.83	13.28	-	-	AV	Vertical	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(4)Average result=Peak result +Duty factor=67.55dB μ V/m.

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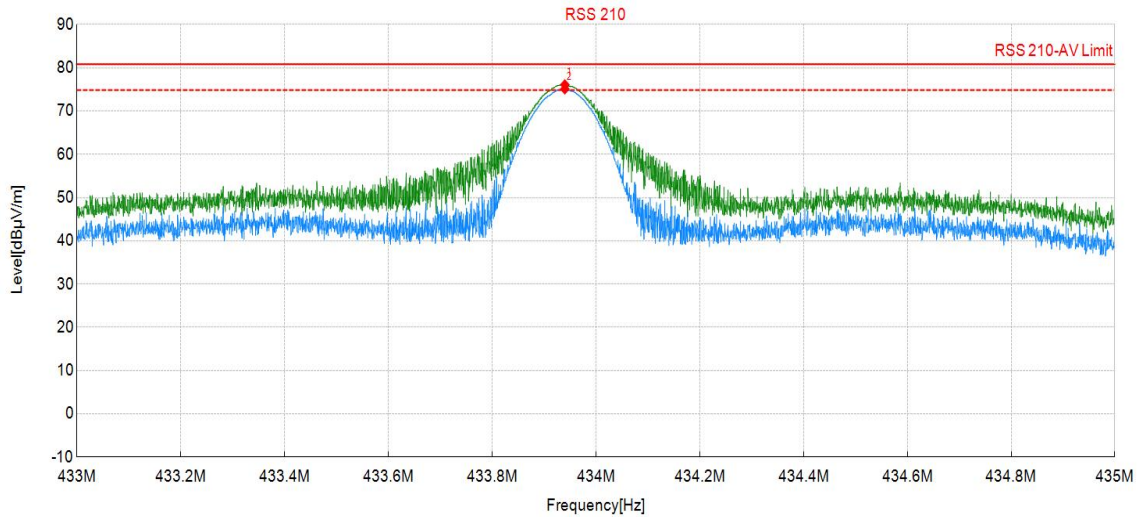
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Please refer to the following diagram:

Horizontal:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	433.94	89.83	76.10	-13.73	100.83	24.73	100	320	PK	Horizontal	PASS
2	433.92	-	69.55	-	80.83	11.28	-	-	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(4)Average result=Peak result +Duty factor=69.55dB μ V/m.

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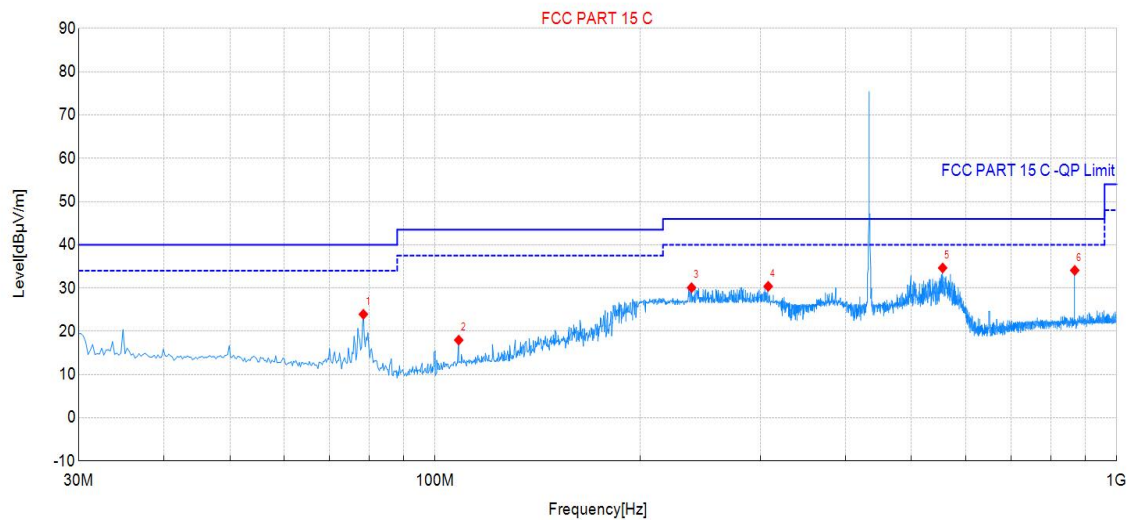
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Radiated Emissions (below 1GHz)

Please refer to the following diagram:

Vertical:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	78.50	44.44	23.94	-20.50	40.00	16.06	100	7	QP	Vertical	PASS
2	108.33	37.00	17.97	-19.03	43.50	25.53	100	7	QP	Vertical	PASS
3	237.82	48.55	30.08	-18.47	46.00	15.92	100	72	QP	Vertical	PASS
4	308.15	46.92	30.40	-16.52	46.00	15.60	100	62	QP	Vertical	PASS
5	555.50	45.70	34.66	-11.04	46.00	11.34	100	54	QP	Vertical	PASS
6	867.84	41.52	34.09	-7.43	46.00	11.91	100	356	QP	Vertical	PASS

Note:(1)Level=Reading+Factor

(2) Margin=Limit-Level

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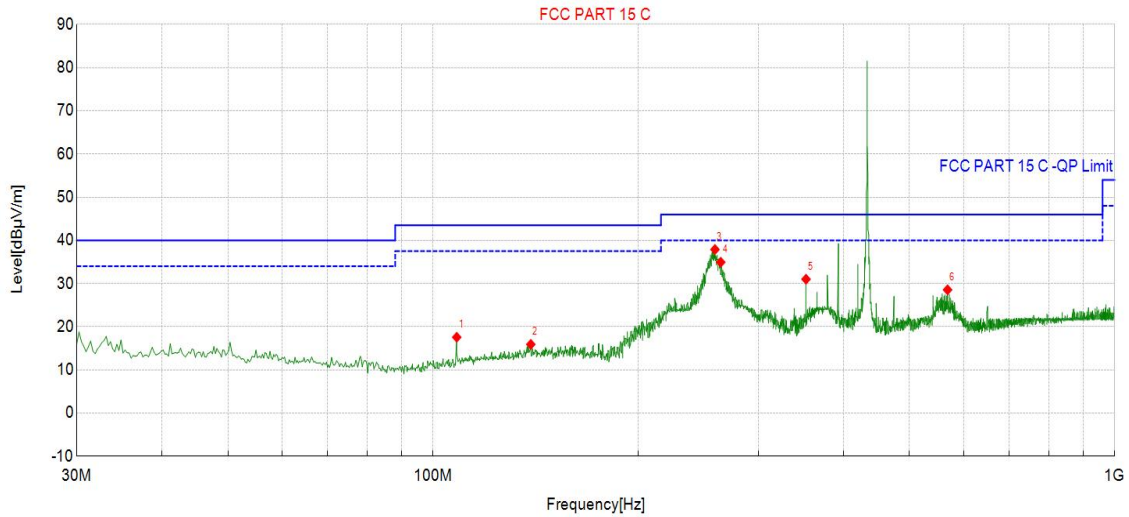
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Horizontal:



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	108.33	36.60	17.57	-19.03	43.50	25.93	100	224	QP	Horizontal	PASS
2	139.13	32.34	15.91	-16.43	43.50	27.59	100	233	QP	Horizontal	PASS
3	259.16	55.83	37.89	-17.94	46.00	8.11	100	354	QP	Horizontal	PASS
4	264.26	52.71	34.94	-17.77	46.00	11.06	100	357	QP	Horizontal	PASS
5	352.53	46.55	31.01	-15.54	46.00	14.99	100	26	QP	Horizontal	PASS
6	568.59	39.32	28.55	-10.77	46.00	17.45	100	168	QP	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

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Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Horizontal	1301.76	58.63	54.5	25.1	2.8	32.03	74	-41.97	PK
Horizontal	1735.68	55.36	54.9	25.7	3.4	29.56	80.83	-51.27	PK
Horizontal	2169.6	55.25	55.5	28.2	3.8	31.75	80.83	-49.08	PK

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Vertical	1301.76	59.42	54.5	25.1	2.8	32.82	74	-41.18	PK
Vertical	1735.68	56.39	54.9	25.7	3.4	30.59	80.83	-50.24	PK
Vertical	2169.6	55.87	55.5	28.2	3.8	32.37	80.83	-48.46	PK

Note:(1)Emission Level=Reading-Pre-Amp.Gain+Antenna+Cable loss

(2)Margin=Level-limit

(3)The peak value is lower than the AV limit, the AV value does not need to be shown.

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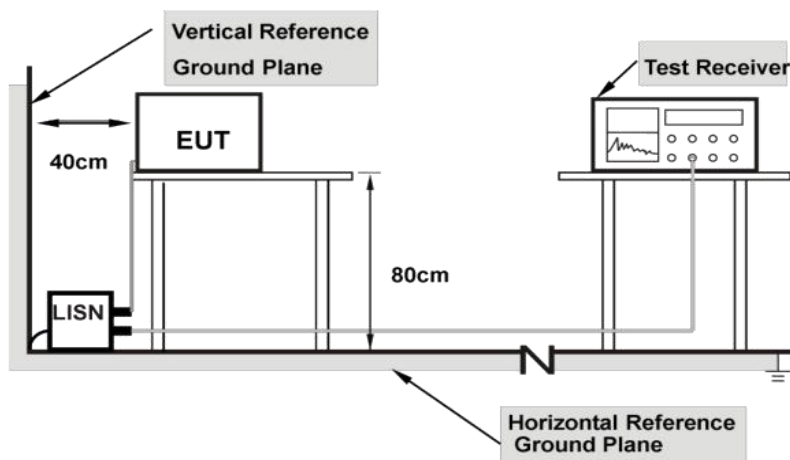
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7.5. CONDUCTED EMISSION

Test Requirement:	FCC Part 15.207(a)		
Test Mode:	Transmitting mode with modulation		
Limit:			
	Frequency of Emission (MHz)	Conducted Limit (dBuV)	
		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.		
Test Procedure:	For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.		
Test Result:	N/A		

7.5.1. Test Setup



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7.5.2. Test Result

N/A. The EUT is powered by battery.

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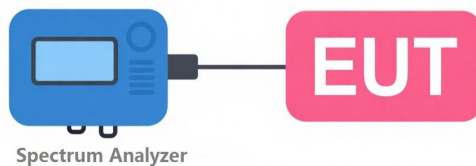
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7.6. DUTY CYCLE

Test Procedure:	analyzer settings: Span=0Hz Set the RBW =1MHz Set the VBW $\geq$ RBW Detector = Average. Sweep time = At least one period of the pulse train or over 100 ms Trace mode = Peak Use the marker-delta function to determine the Tx On and Tx off..
Test Result:	Pass

7.6.1. Test Setup



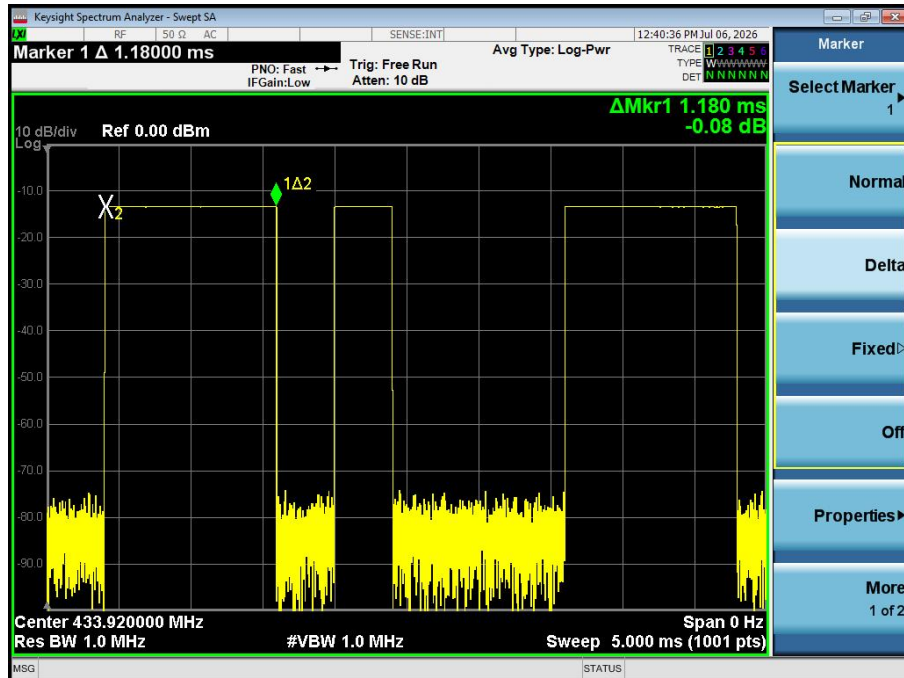
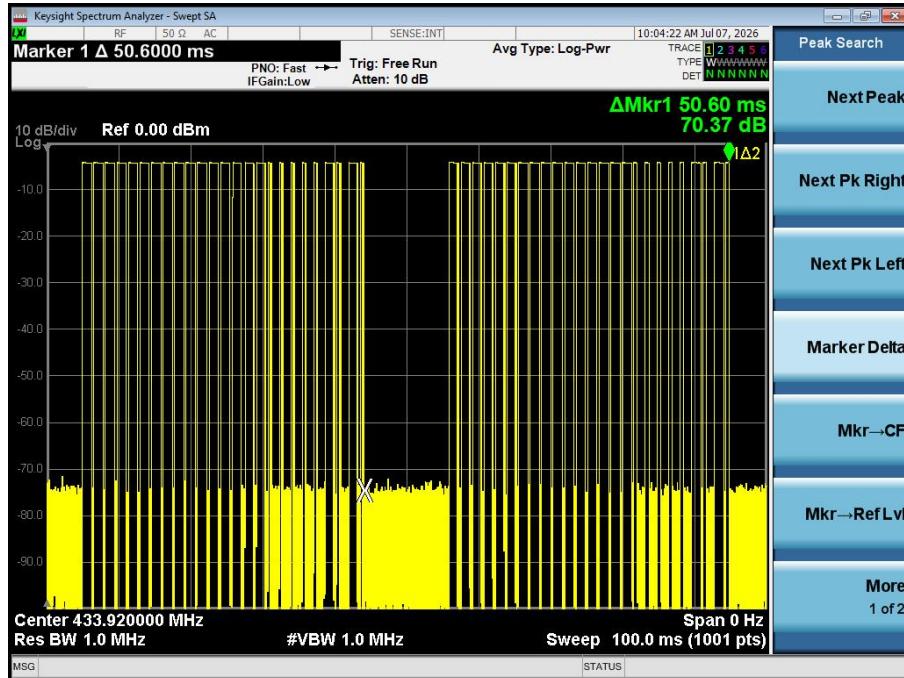
7.6.2. Test Result

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Duty cycle Plot



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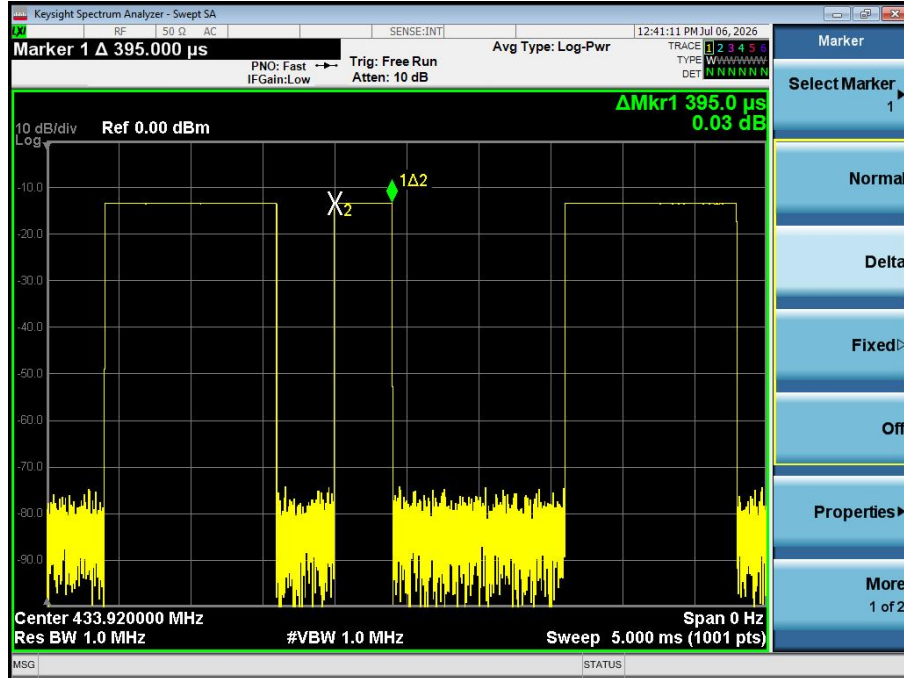
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Frequency	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty cycle correction factor(dB)
433.92MHz	24.01	50.6	47	-6.55

Note:

1. Worst case Duty cycle = on time/Period *100 %
2. Effective period of the cycle = $1.18*18+0.395*7=24.01\text{ms}$
3. Worst case Duty cycle correction factor = $20*\log(\text{on time/Period})$

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8. PHOTOGRAPHS OF TEST SET-UP

For photographs of the test set-up, refer to the appendix file.(Test Setup Photo)

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9. PHOTOGRAPHS OF EUT

For photographs of the EUT, refer to the appendix file(EUT External Photos and EUT Internal Photos).

*** End of Report ***

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