



FCC Test Report

Test report

On Behalf of

Shenzhen ZJ Lighting Technology CO.,LTD

For

FAN LIGHT

**Model No.: FS400-A1, FS400-A2, FS400-B1, FS400-B2, FS400C2, FS400-C1,
FS400-D1**

FCC ID: 2BEHX-FS400-A1

Prepared for:

Shenzhen ZJ Lighting Technology CO.,LTD

**3th Floor, Building No.8, Jiayida Science Park, Langxin Community, Baoan
District, Shenzhen,China**

Prepared By:

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Date of Test:

Dec. 18, 2023 ~ Jan. 08, 2024

Date of Report:

Jan. 08, 2024

Report Number:

HK2312186137-E



Test Result Certification

Applicant's Name.....: Shenzhen ZJ Lighting Technology CO.,LTD
Address: 3th Floor, Building No.8, Jiayida Science Park, Langxin
Community, Baoan District, Shenzhen,China

Manufacture's Name.....: Shenzhen ZJ Lighting Technology CO.,LTD
Address: 3th Floor, Building No.8, Jiayida Science Park, Langxin
Community, Baoan District, Shenzhen,China

Product Description

Trade Mark: N/A
Product Name.....: FAN LIGHT
Model and/or TypeReference : FS400-A1, FS400-A2, FS400-B1, FS400-B2, FS400C2,
FS400-C1, FS400-D1

Standards.....: FCC Part15 Subpart C 2017, Section 15.231
ANSI C63.10: 2013

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Date of Test.....:
Date (s) of Performance of Tests: **Dec. 18, 2023 ~ Jan. 08, 2024**
Date of Issue.....: **Jan. 08, 2024**
Test Result: **Pass**

Testing Engineer :

(Len Liao)

Technical Manager :

(Sliver Wan)

Authorized Signatory :

(Jason Zhou)



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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jan. 08, 2024	Jason Zhou



1. Test Summary

1.1 Test Facility

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	N/A
15.205/15.209/15.231(b)	Spurious Emission	PASS
15.231(c)	20dB Occupied Bandwidth	PASS
15.231(a)	Deactivation Testing	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

1.2 Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3 Measurement Uncertainty

Measurement Uncertainty		
Parameter	Conditions	Uncertainty
Occupied Bandwidth	Conducted	±1.5%
Conducted Spurious Emission	Conducted	±2.17dB
Transmission Time	Conducted	±5%
Conducted Emissions	Conducted	±2.88dB
Transmitter Spurious Emissions	Radiated	±5.1dB



2. General Information

2.1. Description of Device (EUT)

Product Name	:	FAN LIGHT	
Model No.	:	FS400-A1	
Series Models	:	FS400-A2, FS400-B1, FS400-B2, FS400C2, FS400-C1, FS400-D1	
Model Difference	:	All model's the function, software and electric circuit are the same, only with product model named different. Test sample model: FS400-A1.	
Trade Mark	:	N/A	
Test Power Supply	:	DC3V from Button battery	
Product Description	:	Operation Frequency:	433.957MHz
	:	Number of Channel:	1 Channels
	:	Modulation Type:	ASK
	:	Antenna Type:	PCB antenna
	:	Antenna Gain(Peak):	0dBi
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			



2.2. Description of Test Setup

Operation of EUT during testing:

EUT

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position



2.3. 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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	FAN LIGHT	N/A	FS400-A1	N/A	EUT

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.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

2.4. List of Channels

Channel	Freq. (MHz)	Note (Modulation Type)
01	433.957	ASK

**2.5. Test Equipment List**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 17, 2023	1 Year
2.	Receiver	R&S	ESR-7	HKE-005	Feb. 17, 2023	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 17, 2023	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 17, 2023	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 17, 2023	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 17, 2023	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 17, 2023	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 17, 2023	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 17, 2023	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 17, 2023	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 17, 2023	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 17, 2023	1 Year



3. Conducted Emission Test

3.1 Conducted Power Line Emission Limit

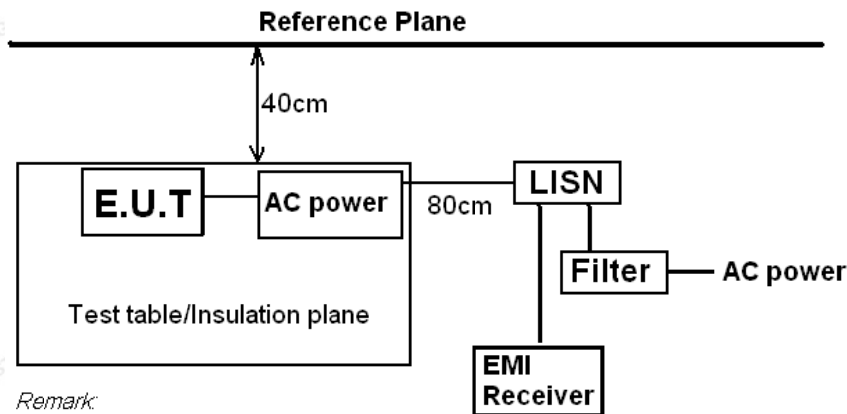
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



Remark:

E.U.T: Equipment Under Test

LISN: Line Impedance Stabilization Network

Test table height=0.8m

3.3 Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.



3.4 Test Data

Not applicable.

Note: EUT power supply by DC Power, so this test item not applicable.



4. Radiated Emissions

4.1. Standard Applicable

According to §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

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	1,250 to 3,750 **	125 to 375 **
174 - 260	3,750	375
260 - 470	3,750 to 12,500 **	375 to 1,250 **
Above 470	12,500	1,250

** linear interpolations

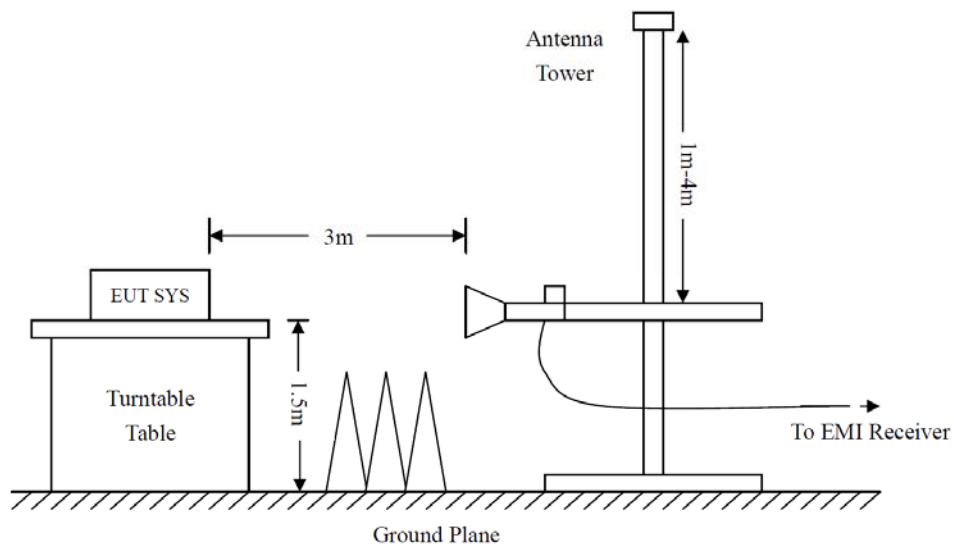
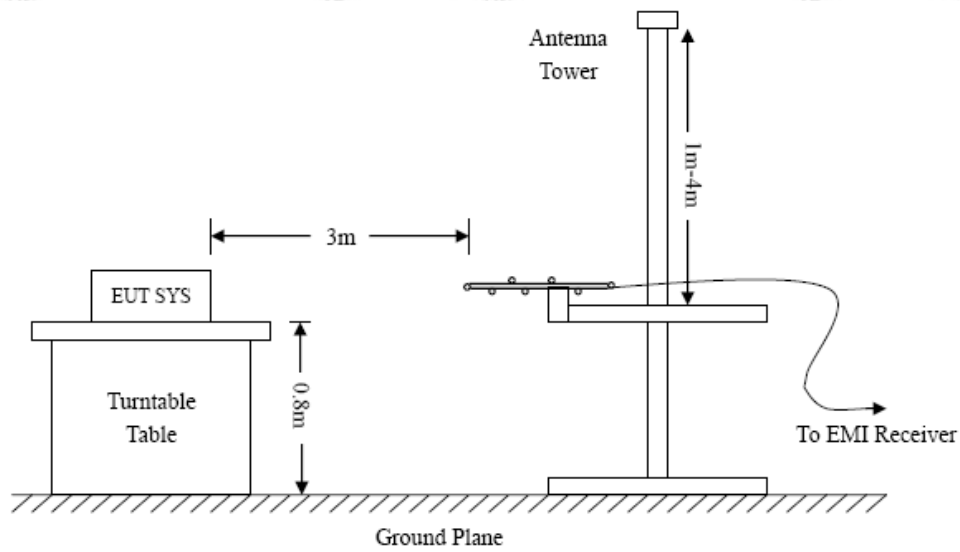
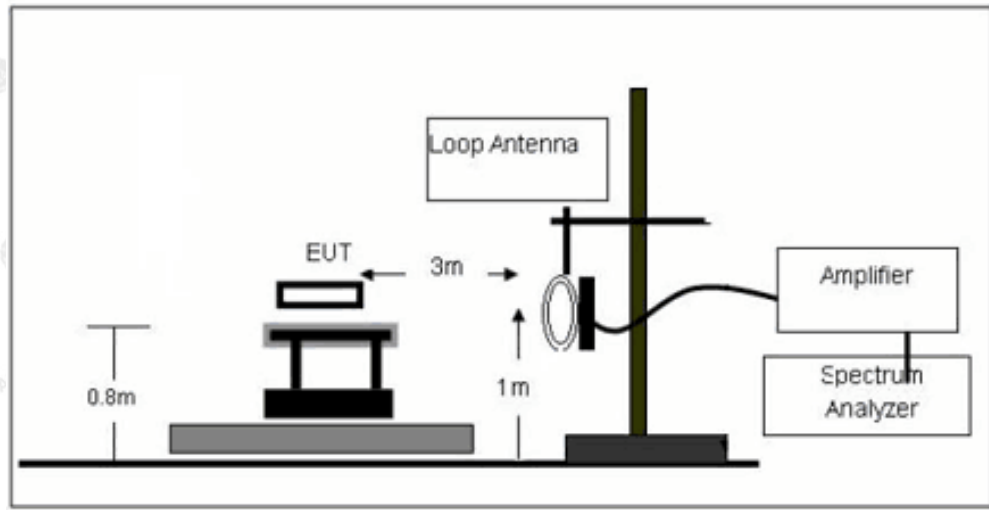
The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

Compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

4.2. Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.231(b) and FCC Part 15.209 Limit.





4.3. Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Loss} + \text{Cab. Loss} - \text{Ampl. Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part15C Limit}$$

4.4. Environmental Conditions

Temperature:	21°C
Relative Humidity:	50%
ATM Pressure:	1011 mbar

4.5. Test Data

According to the data below, the FCC Part 15.205, 15.209 and 15.231 standards, and had the worst margin of:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

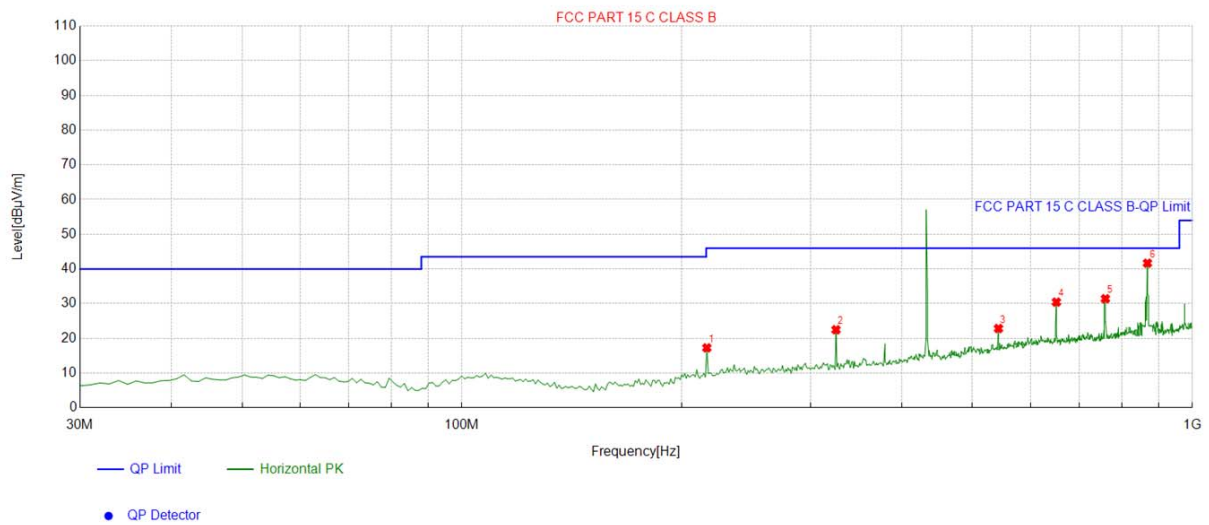
(Fundamental 433.957MHz)

No.	Frequency	Reading	Corr.	Duty cycle	Result	Limit	Margin	Deg.	Height	Polarity	Remark
	MHz	dBuV/m	Factor (dB)	Factor (dB)	dBuV/m	dBuV/m	dB	(°)	(cm)		
1	433.9570	44.9	12.33	N/A	57.23	100.8	-43.57	177	100	H	Peak
2	433.9570	N/A	N/A	-7.46	49.77	80.83	-31.06	177	100	H	AV
3	433.9570	52.99	12.33	N/A	65.32	100.8	-35.48	177	100	V	Peak
4	433.9570	N/A	N/A	-7.46	57.86	80.83	-22.97	117	100	V	AV



Radiated Emission

Antenna polarity: H

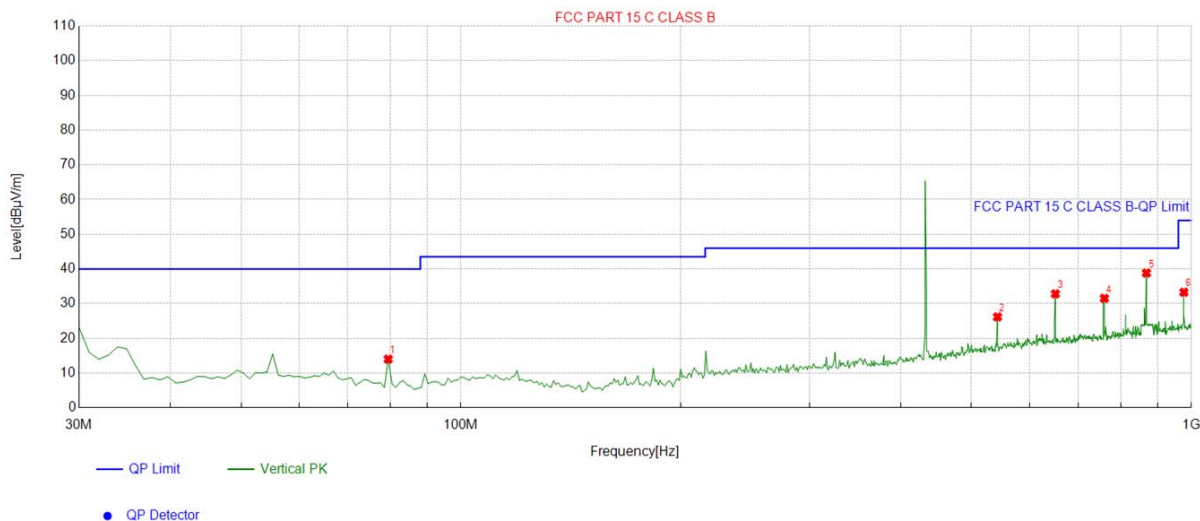


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	216.42642	-14.39	31.65	17.26	46.00	28.74	100	100	Horizontal
2	325.17517	-11.60	34.08	22.48	46.00	23.52	100	125	Horizontal
3	542.67267	-6.47	29.31	22.84	46.00	23.16	100	191	Horizontal
4	651.42142	-4.48	34.93	30.45	46.00	15.55	100	45	Horizontal
5	760.17017	-2.56	33.98	31.42	46.00	14.58	100	300	Horizontal
6	867.94794	-1.02	42.69	41.67	46.00	4.33	100	245	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



Antenna polarity: V



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	79.51952	-17.40	31.41	14.01	40.00	25.99	100	66	Vertical
2	542.67267	-6.47	32.65	26.18	46.00	19.82	100	336	Vertical
3	651.42142	-4.48	37.30	32.82	46.00	13.18	100	352	Vertical
4	760.17017	-2.56	34.09	31.53	46.00	14.47	100	349	Vertical
5	867.94794	-1.02	39.85	38.83	46.00	7.17	100	346	Vertical
6	976.69669	0.20	33.09	33.29	54.00	20.71	100	344	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



Above 1GHz

Horizontal:

No.	Frequency	Reading	Corr.	Duty cycle	Result	Limit	Margin	Deg.	Height	Remark
	MHz	dBuV/m	Factor (dB)	Factor (dB)	dBuV/m	dBuV/m	dB	(°)	(cm)	
1	1301.76	27.25	25.83	N/A	53.08	74	-20.92	41	100	Peak
	1301.76	/	/	-7.46	45.62	54	-8.38	306	100	Ave
2	1735.68	26.31	27.25	N/A	53.56	74	-20.44	204	100	Peak
	1735.68	/	/	-7.46	46.10	54	-7.90	87	100	Ave

Vertical:

No.	Frequency	Reading	Corr.	Duty cycle	Result	Limit	Margin	Deg.	Height	Remark
	MHz	dBuV/m	Factor (dB)	Factor (dB)	dBuV/m	dBuV/m	dB	(°)	(cm)	
1	1301.76	27.78	25.83	N/A	53.61	74	-20.39	151	100	Peak
	1301.76	/	/	-7.46	46.15	54	-7.85	74	100	Ave
2	1735.68	26.95	27.25	N/A	54.2	74	-19.8	332	100	Peak
	1735.68	/	/	-7.46	46.74	54	-7.26	51	100	Ave

Note: Testing is carried out with frequency rang 30MHz to the tenth harmonics, which above 5th

Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The fundamental frequency is 433.957MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 433.957MHz.

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)		Limit@3m (dBμV/m)	
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



5. 20dB Occupy Bandwidth Test

5.1. Standard Applicable

According to FCC Part 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

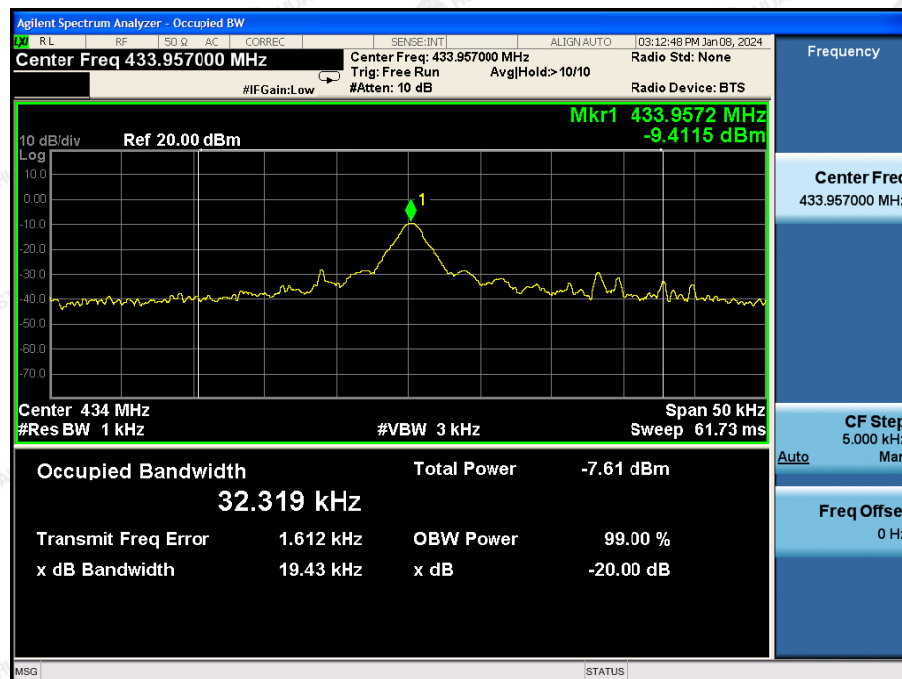
5.2. Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna, which was connected to the spectrum analyzer with the START, and STOP frequencies set to the EUT's operation band.

Temperature:	21°C
Relative Humidity:	52%
ATM Pressure:	1011 mbar

5.3. Test Data

Freq. (MHz)	Modulation Type	Bandwidth (kHz)	Limit (kHz)	Results
433.957	ASK	19.43	<1084.9	PASS





6. Transmission Time

6.1. Standard Applicable

According to FCC Part 15.231(a), the transmitter shall be complied the following requirements:

- (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.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

6.2. Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 433.957MHz, than set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

6.3. Environmental Conditions

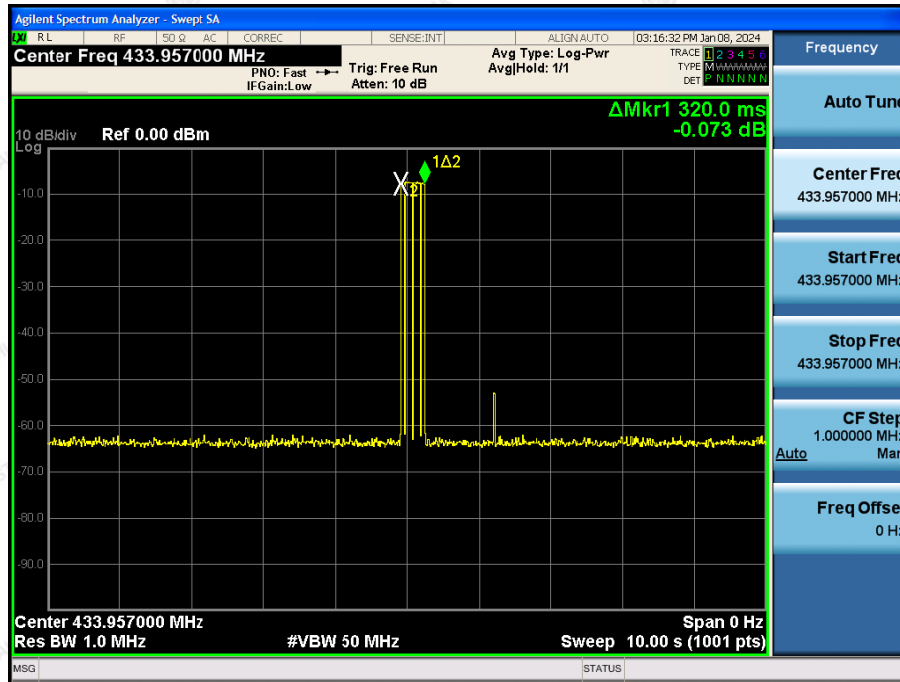
Temperature:	20℃
Relative Humidity:	52%
ATM Pressure:	1011 mbar



6.4. Test Data

Transmission Type	Test Frequency MHz	Transmission Time seconds	Limit s	Result
Manually	433.957	0.32	5	PASS

Please refer the following plot.





7. Duty Cycle

7.1. Standard Applicable

According to FCC Part 15.231(b)(2) and 15.35 (c), For pulse operation transmitter, the averaging pulsed emissions are calculated by peak value of measured emission plus duty cycle factor.

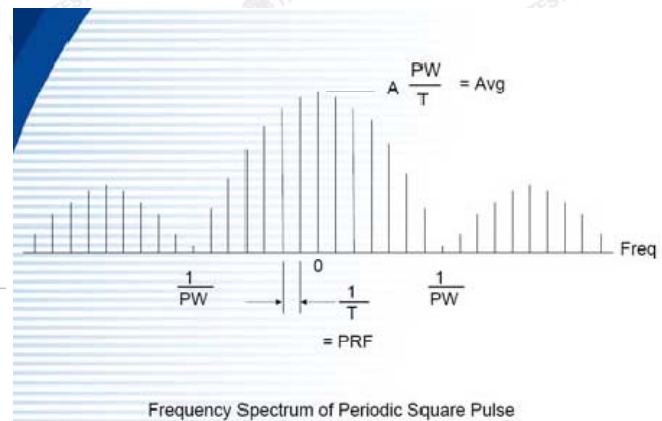
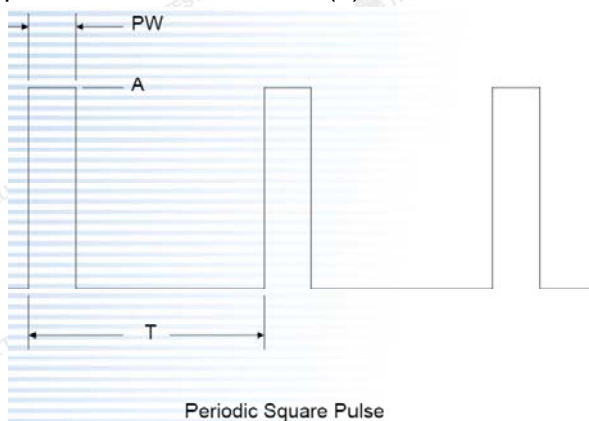
7.2. Test Procedure

- 1) The EUT was placed on a turntable which is 0.8m above ground plane.
- 2) Set EUT operating in continuous transmitting mode
- 3) Set Test Receiver into spectrum analyzer mode, Tune the spectrum analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth(RBW) to 1000kHz and video bandwidth(VBW) to 1000kHz, Span was set to 0Hz.
- 4) The Duty Cycle was measured and recorded.

7.3. Introduction to PDCF Reference:

(§15.35 Measurement detector functions and bandwidths.)

1) Part 15 of the FCC Rules provides for the operation of low power communication devices without an individual license (e.g., intrusion detectors, pulsed water tank level gauges, etc.), subject to certain requirements. Some of these devices use extremely narrow pulses to generate wideband emissions, which are measured to determine compliance with the rules. These measurements are typically performed with a receiver or spectrum analyzer. Depending on a number of factors (e.g., resolution bandwidth, pulse width, etc.), the spectrum analyzer may not always display the true peak value of the measured emission. This effect, called “pulse desensitization,” relates to the capabilities of the measuring instrument. For the measurement and reporting of the true peak of pulsed emissions, it may be necessary to apply a “pulse desensitization correction factor” (PDCF) to the measured value, pursuant to 47 CFR 15.35(a).





If using spectrum analyzer to measure pulse signal, it have to make sure the RBW use is at least $2/PW$.
•When RBW is less than $2/PW$, you are able to measure the true peak level of the pulse signal. If this is the case.

PDCF is required to compensate to determine true peak value.

Pulse desensitization:

$PW = 29250\mu\text{sec}$ ($0.6 \times 13 + 1.65 \times 13$), Period= $67500\mu\text{sec}$, Level=A

$RBW > 2/PW = 0.068\text{K}$, $1/T = 0.15\text{K}$

NOTE: $2 / PW < RBW$, first don't need

2). For the actual test, please refer to the ANSI C63.10, Annex C refer to section 5 for more detail

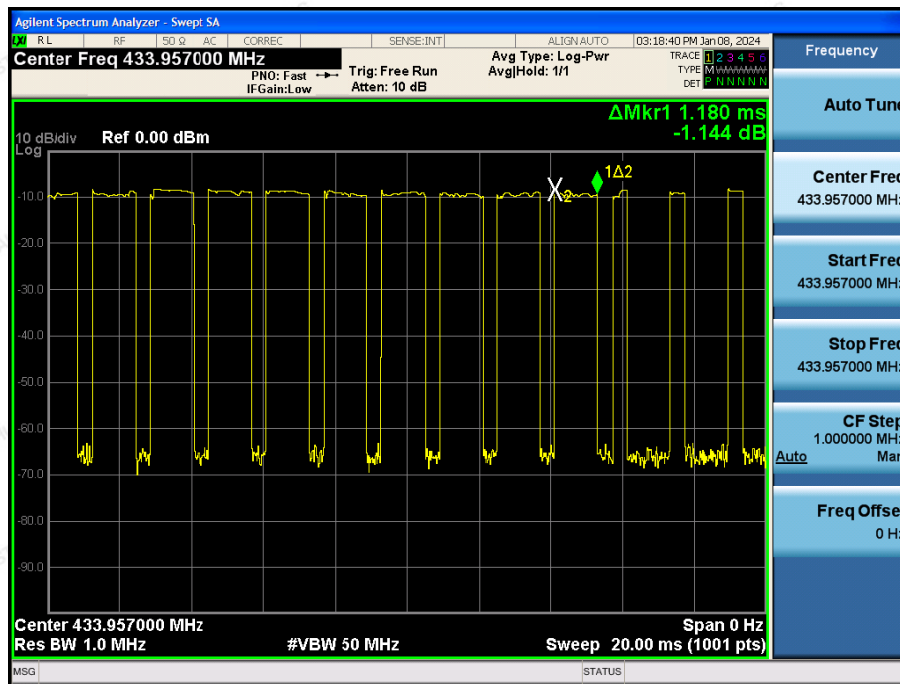
7.4. Test Data

Type of Pulse	Width of Pulse ms	Quantity of Pulse	Transmission Time ms	Total Time(T_{on}) ms
Pulse 1	0.4	8	3.2	23.26
Pulse 2	1.18	17	20.06	

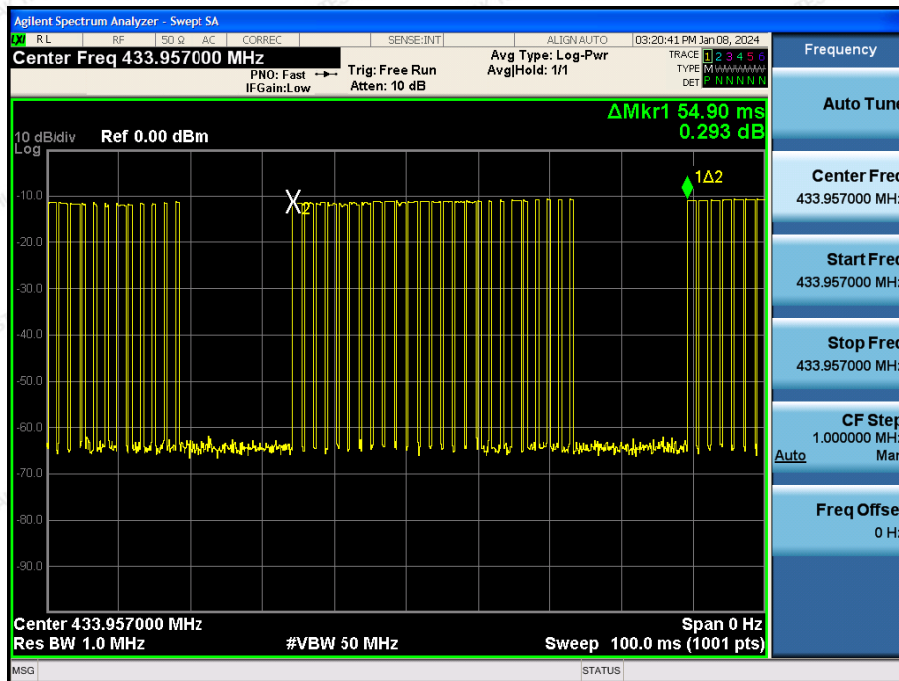
Test Period (T_p) ms	Total Time (T_{on}) ms	Duty Cycle %	Duty Cycle Factor dB
54.9	23.26	42.37	-7.46

Remark: Duty Cycle Factor= $20 \times \log$ (Duty Cycle)

Please refer to the attached test plots



Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



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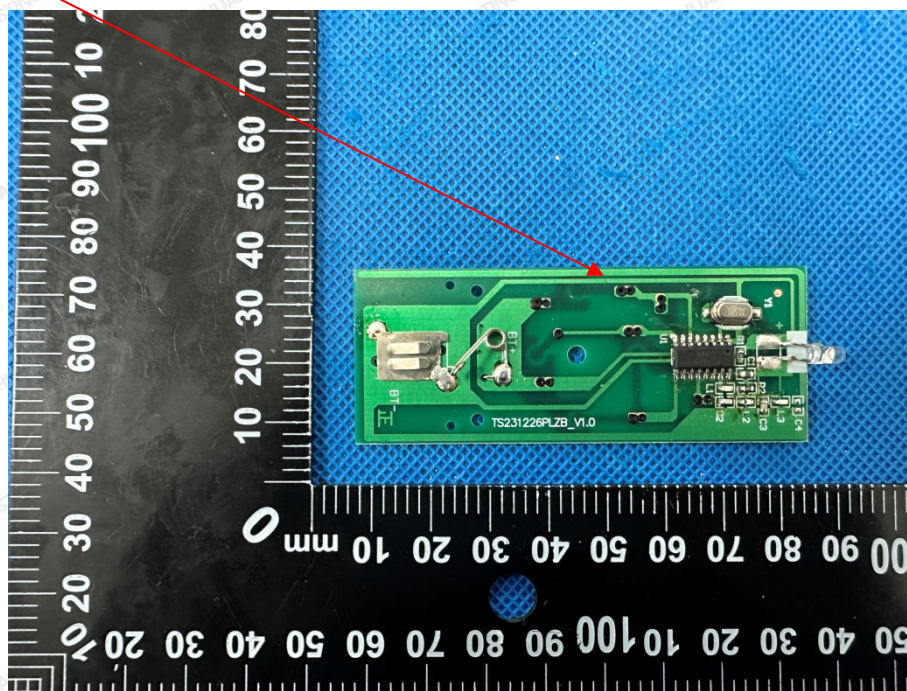
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



8. Antenna Connected Construction

The antenna used in this product is a PCB Antenna, is a permanently attached antenna on the PCB. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

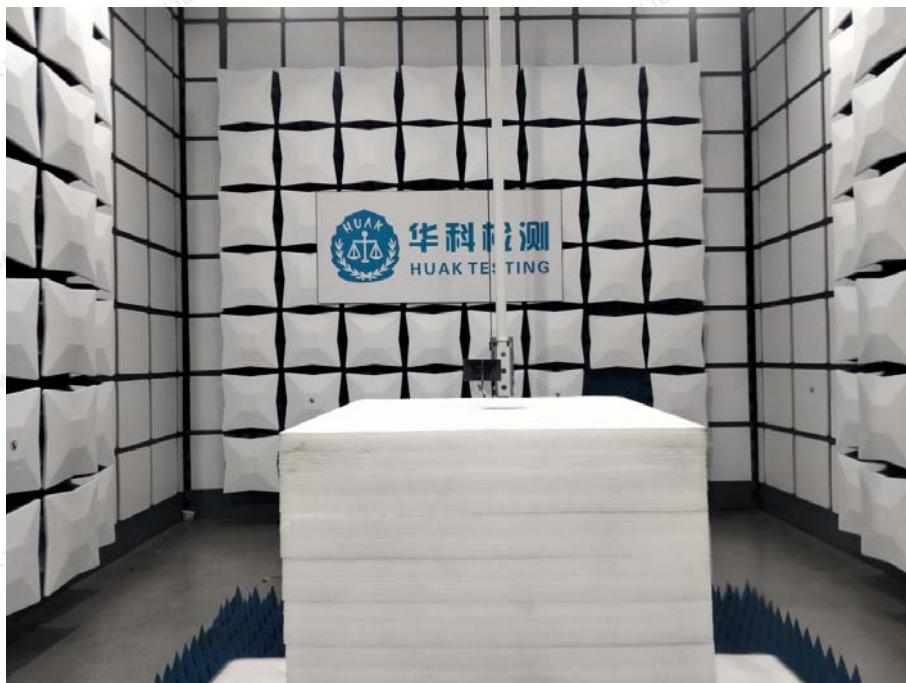
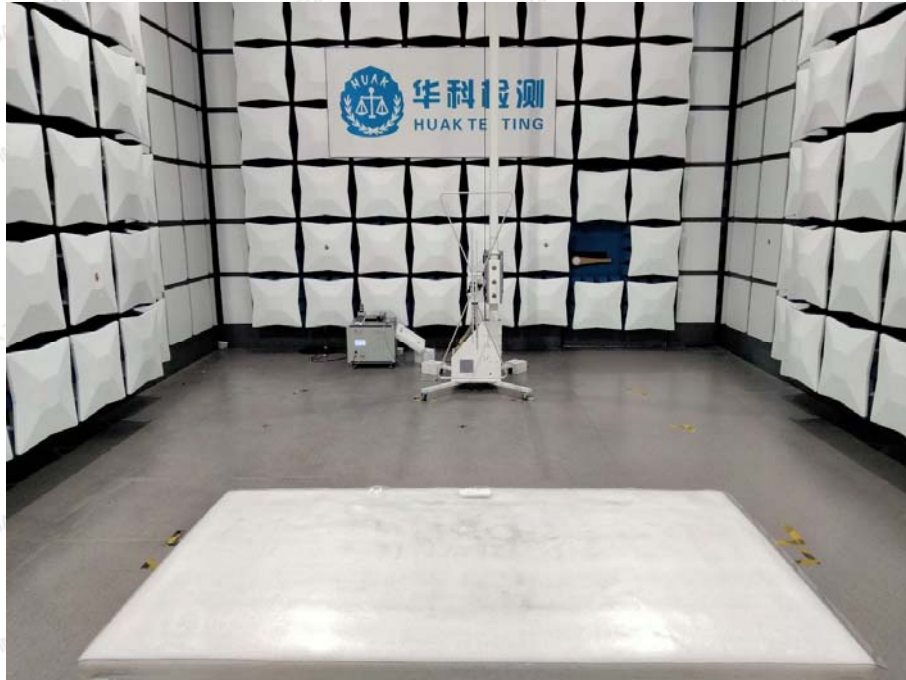
Antenna





9. Photographs of Test

Radiated Emission



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10. Photos of the EUT

Reference to the report: ANNEX A of External photos and ANNEX B of Internal photos

*****End of Report*****