



Report No.: 86260720186

Date: August. 3, 2026

Page 1 of 5

RF TEST REPORT

Applicant : Zhongshan Guzhen Dikas lighting factory

Address: Unit 3,2nd Floor,No.16 Beihai Road,Beihai Industrial Zone,Haizhou,Guzhen Town,Zhongshan City,Guangdong Province,China

Manufacturer: Zhongshan Guzhen Dikas lighting factory

Address: Unit 3,2nd Floor,No.16 Beihai Road,Beihai Industrial Zone,Haizhou,Guzhen Town,Zhongshan City,Guangdong Province,China

EUT Name: Bluetooth music fan light

Trade mark: DIKAS

Model: FS-5YHXLY-R520, FS-3YHXLY-R710, FS-4YHXLY-R680, FS-5YHXLY-R420, FS-6YHXLY-R520

FCC ID: 2BXN2-FS5YHXLY

Rating: AC 85-265V 50/60Hz

Sample Received Date: Jul. 20, 2026

Test Date: Jul. 20, 2026~Aug. 3, 2026

Applicable Standards: CFR 47, FCC Part 2.1091

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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Page 2 of 5

Revision History

Version	Date of Issue	Description
V00	August. 3, 2026	Original Version

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1. EUT DESCRIPTION

Product:	Bluetooth music fan light
Test Model:	FS-5YHXLY-R520
Additional Model:	FS-3YHXLY-R710, FS-4YHXLY-R680, FS-5YHXLY-R420, FS-6YHXLY-R520
Rating:	AC 80-265V 50/60Hz
FCC ID:	2BXN2-FS5YHXLY
Antenna Type:	PCB Antenna
Antenna Gain:	-0.58 dBi
Operation Frequency:	2402-2480MHz
Number of Channels:	79
Modulation Type:	GFSK, π /4-DQPSK, 8DPSK
Adapter Information:	/
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 product model is FS-5YHXLY-R520 the same PCB layout, electronic schematic and Antenna with FS-3YHXLY-R710, FS-4YHXLY-R680, FS-5YHXLY-R420, FS-6YHXLY-R520. The internal mechanical structure is also consistent. Only the models are difference.
- 4) The test results in the report only apply to the tested sample.

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2. RF EXPOSURE EVALUATION

2.1. Requirement

According to ANSI/IEEE C95.1-1992, the criteria listed in Table as below shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

2.2. Calculation method

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S: Power density(mW/cm²)

P: power input to antenna (Watt)

G: is the antenna gain relative to an isotropic antenna;

R: is the distance from observation point to the antenna

Note:

1) P (Watts)=(10 ^ (dBm /10))/1000

2) G (Antenna gain in numeric) = 10[^] (Antenna gain in dBi /10)

3) π=3.142

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2.3. Tune-up Result

Test mode	Maximum Conducted Output Power(dBm)	Tune-up Power(dBm)
Bluetooth	4.686	4±1

2.4. Evaluation Result

Mode	Maximum Tune up Power (dBm)	Maximum Tune up (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	Power density (mW/cm ²)	Power density Limit (mW/cm ²)	Result
Bluetooth	5	3.1623	-0.58	0.8750	0.0006	1	PASS

2.5. Conclusion

According to 47 CFR 2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

End of Report

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