

TEST REPORT

Product Name: Flying Bird Music Light

Model Number: WH-J04

FCC ID : 2A2Y2-WH-J04

Prepared for Guangzhou Tuoke Commerce Trade Co Ltd

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1. TEST RESULT CERTIFICATION

Applicant : Guangzhou Tuoke Commerce Trade Co Ltd

Address Room 416, No.101, Wanggang Dexing Road, Jiahe Stress, Baiyun District,

Guangzhou, China

Manufacturer : TK Co., Ltd.

Address Room 416, No.101, Wanggang Dexing Road, Jiahe Stress, Baiyun District,

Guangzhou,China

Factory : Guangzhou Dingsheng Industry Co.,Ltd.

Address : NO.24, Zhenghe Road, Wuxi Village, Zhongluo Tan Town, Baiyun, Guangzhou

EUT : Flying Bird Music Light

Model Name : WH-J04

Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS			
STANDARD	TEST RESULT		
§ 15.247(i), § 2.1093	PASS		

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test :	September 29, 2022 to October 24, 2022		
Prepared by :	Kin Yang		
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	NONGGUAN, CO. LTD.		
Approve & Authorized Signer:	Sam Lv / Manager		



Modified History

Version	Report No.	Revision Date	Summary	
	EDG2209290100E00302R	October 24, 2022	Original Report	





2. EUT Specification

Characteristics	Description		
Product:	Flying Bird Music Light		
Model Number:	WH-J04		
Sample:	1#		
Device Type:	Bluetooth V5.0		
Data Rate:	1Mbps for GFSK modulation 2Mbps for π/4-DQPSK modulation		
Modulation:	GFSK, π/4-DQPSK		
Operating Frequency Range(s) :	2402-2480MHz		
Number of Channels:	79 channels		
Transmit Power Max:	2.71 dBm(0.001866W)		
Antenna Gain:	1.7 dBi		
Power supply:	DC 5V from USB, DC 3.7V from battery		
Evaluation applied:	☐ MPE Evaluation ☐ SAR Evaluation		



3. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · $[\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, ²⁴ where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation ²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.



4. Measurement Result

Antenna gain:1.7 dBi

Transmit Frequency(MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	GFSK	2.08	2±1	3	0.6184670	1
2441	GFSK	1.31	1±1	2	0.4952379	1
2480	GFSK	2.18	2±1	3	0.6284284	1
2402	Π/4-DQPSK	2.71	2±1	3	0.6184670	1
2441	Π/4-DQPSK	1.95	1±1	2	0.4952379	1
2480	Π/4-DQPSK	2.70	2±1	3	0.6284284	1

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.