

TEST REPORT

Product Name : LED Multicolor Drone
Model Number : 2S
FCC ID : 2BXRG-2S

Prepared for : Shantou Flying Dragonfly Technology Co., Ltd.
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Date of sample receipt : July 31, 2026
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Table of Contents

1. TEST RESULT CERTIFICATION	3
2. EUT SPECIFICATION	5
3. TEST REQUIREMENT	6
4. MEASUREMENT RESULT	7



1. TEST RESULT CERTIFICATION

Applicant : Shantou Flying Dragonfly Technology Co., Ltd.
Address : Room 309, Factory Zone, Fuligang Garment Company, Gucheng Village, Jingdu Town, Chaonan District, Shantou City, Guangdong Province, China
Manufacturer : Shantou Flying Dragonfly Technology Co., Ltd.
Address : Room 309, Factory Zone, Fuligang Garment Company, Gucheng Village, Jingdu Town, Chaonan District, Shantou City, Guangdong Province, China
EUT : LED Multicolor Drone
Model Name : 2S
Trademark : N/A

Measurement Procedure Used:

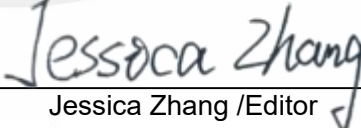
APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.249, § 2.1093	PASS

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 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.249, § 2.1093.

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

Date of Test : July 31, 2026 to August 18, 2026

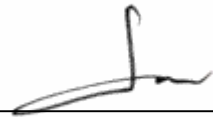
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Reviewer :

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Approve & Authorized Signer :


Sam Lv / Manager



Modified History

Version	Report No.	Revision Date	Summary
	EDG2607310365E00102R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	LED Multicolor Drone
Model Number:	2S
Sample:	1#
Operating Frequency Range(s) :	2420MHz-2460MHz
Number of Channels:	3 channels
Max Field Strength	79.03 dBuV/m@3m
Antenna Type:	2.4G Linear antenna
Power Supply	DC 4.5V from Battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement

SAR Evaluation

According to 447498 D01 V06, 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* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- 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 qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

2.4G SRD

Channel Freq. (MHz)	Max Field Strength (dBuV/m)	peak output power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2420	78.04	-17.11757491	-18±1	-17	0.006207799	3
2440	78.03	-17.12757491	-18±1	-17	0.006233399	3
2460	79.03	-16.12757491	-17±1	-16	0.00787948	3

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

*** End of Report ***