TEST REPORT

Product Name : 14 4-in-1 par lights with remote control
Model Number : Please refer to model list on page 5
FCC ID : 2A6EW-ZQ01424

Prepared for	:	Shenzhen Zhuoqiong Technology Co., Ltd.
Address	:	B503, Block B, Donghaiwang Industrial Zone, No.369 Bulong Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen Guangdong, China
Prepared by	:	EMTEK (DONGGUAN) CO., LTD.
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Report Number	:	EDG2410110123E00102R
Date(s) of Tests	:	Oct 11, 2024 to Nov 08, 2024
Date of issue	:	Nov 08, 2024

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1. TEST RESULT CERTIFICATION

Applicant	:	Shenzhen Zhuoqiong Technology Co., Ltd.
Address：	:	B503, Block B, Donghaiwang Industrial Zone, No.369 Bulong Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen Guangdong, China
Manufacturer	:	Shenzhen Zhuoqiong Technology Co., Ltd.
Address：	:	B503, Block B, Donghaiwang Industrial Zone, No.369 Bulong Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen Guangdong, China
Factory	:	Shenzhen Zhuoqiong Technology Co., Ltd.
Address：	:	B503, Block B, Donghaiwang Industrial Zone, No.369 Bulong Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen Guangdong, China
EUT	:	14 4-in-1 par lights with remote control
Model Name	:	Please refer to model list on page 5
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 : Oct 11, 2024 to Nov 08, 2024

Prepared by : Jessica Zhang /Editor

Reviewer : Warren Deng /Supervisor

Approved & Authorized Signer : Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2410110123E00102R	/	Original Report

2. EUT Specification

Characteristics	Description
Product:	14 4-in-1 par lights with remote control
Model Number:	Please refer to model list on page 5. All products are identical except the model number and surface sticker pattern.Here we selected ZQ01424 for all the test.
Sample:	1#
Modulation:	FSK
Operating Frequency Range(s):	433.92MHz
Number of Channels:	1 channel;
Transmit Power Max:	42.48 dBuV@3m
Antenna Gain:	-1.22 dBi
Power supply:	DC 3V form battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

Model list
ZQ01424, ZQ07030, ZQ10016, ZQ10140, ZQ10137, ZQ10139, ZQ10141, ZQ10134, ZQ03021, ZQ05199, ZQ05198, ZQ05200, ZQ05168, ZQ06017, ZQ01422, ZQ01423, ZQ01425, ZQ01427, ZQ01445, ZQ01639, ZQ01640, ZQ02354, ZQ02061, ZQ02100, ZQ02101, ZQ02024, ZQ02025, ZQ02038, ZQ10133, ZQ10144, ZQ10145, ZQ10146, ZQ10147, ZQ10148, ZQ10149, ZQ10150, ZQ10151, ZQ07032, ZQ07033, ZQ07034, ZQ07035, ZQ07036, ZQ06190, ZQ06191, ZQ06192, ZQ06193, ZQ06194, ZQ06195, ZQ05295, ZQ05296, ZQ05297, ZQ05298, ZQ05299, ZQ03307, ZQ03308, ZQ03309, ZQ03310, ZQ03311, ZQ01138, ZQ01139, ZQ01140, ZQ01141, ZQ01143, ZQ01144, ZQ01145, ZQ01146, ZQ05204, ZQ05189, ZQ05190, ZQ05191, ZQ05192, ZQ05193, ZQ05194, ZQ05195, ZQ02104, ZQ02105, ZQ02106, ZQ02107, ZQ02108, ZQ02570, ZQ02571, ZQ02572, ZQ02573, ZQ02574

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:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 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

433MHz
Antenna gain: -1.22 dBi

Channel Freq. (MHz)	Max Field Strength (dBuV/m)	peak output power (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	Calculation threshold(1-g SAR)
433.92	42.48	-51.56	-51±1	-50	0.000001	3

*** End of Report ***