

TEST REPORT		
Report Number. :	90291-25-72-25-PP002	
Date of issue :	Apr. 28, 2025	
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Factory's name :	Dongguan Shengjia Handicraft CO.,Ltd	
Address :	Room 301, Unit 1, Building 6, No. 77 Shilong Road, Guancheng Street, Dongguan City, Guangdong Province	
Standard(s) :	FCC 1.1310: §1.1307(b)	
Test item description..... :	Wooden Christmas Decoration Lights	
Trade Mark :	N/A	
Model/Type reference :	RL-001-032, RL-002-032, RL-003-024, RL-004-028, RL-005-038, RL-006-043, RL-007-008, RL-008-001, RL-008-002, RL-009-001, RL-009-002, RL-010-001	
FCC ID :	2BOZ6-SJ433	
Date of receipt of test item :	Apr. 07, 2025	
Date (s) of performance of test:	Apr. 08, 2025 - Apr. 25, 2025	
Summary of Test Results :	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		
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Modified History

Report No.	Revision Date	Summary
90291-25-72-25-PP002	Apr. 28, 2025	Original Report

1. EUT Specification

Product:	Wooden Christmas Decoration Lights
Model Number:	RL-001-032, RL-002-032, RL-003-024, RL-004-028, RL-005-038, RL-006-043, RL-007-008, RL-008-001, RL-008-002, RL-009-001, RL-009-002, RL-010-001
Power supply:	<input checked="" type="checkbox"/> : DC 3V
Modulation:	ASK
Frequency Range:	433.92 MHz
Max Transmit Power:	61.71 dBuV/m@3m
Antenna Gain:	-3 dBi
Antenna:	PCB Antenna
Temperature Range:	-10°C ~ +50°C

2. Test Requirement

RF EXPOSURE EVALUATION

EUT Specification

EUT	Wooden Christmas Decoration Lights
Model Number	RL-001-032, RL-002-032, RL-003-024, RL-004-028, RL-005-038, RL-006-043, RL-007-008, RL-008-001, RL-008-002, RL-009-001, RL-009-002, RL-010-001
FCC ID	2BOZ6-SJ433
Antenna gain (Max)	-3 dBi
Operation Frequency	433.92MHz
Input Rating	DC 3V by battery
Classification Per Stipulated Test Standard	§15.231, §2.1093
Kind of Device: REMOTE CONTROL	
Modulation	ASK
Max. output power	61.71 dBuV/m (0.00003 W)

Test Requirement:

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* ≤ 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.

Transmit Frequency (MHz)	Mode	Field strength (dBuV/m)	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
433.92	ASK	61.71	-33.45	±1	-32.45	0.0001763	3

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for 433M antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

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