

# TEST REPORT

**Product Name** : DISNEY LED SPEAKER  
**Model Number** : SP-0232  
**FCC ID** : 2ADM5-SP-0232

**Prepared for** : Zeeva International Limited  
**Address** : Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China

**Prepared by** : EMTEK (SHENZHEN) CO., LTD.  
**Address** : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

Tel: (0755) 26954280  
Fax: (0755) 26954282

**Report Number** : ENS2307170254W00102R  
**Date(s) of Tests** : July 17,2023 to July 31,2023  
**Date of issue** : July 31,2023

## Table of Contents

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



# 1. TEST RESULT CERTIFICATION

Applicant : Zeeva International Limited  
 Address : Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China  
 Manufacturer : Zeeva International Limited  
 Address : Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China  
 EUT : DISNEY LED SPEAKER  
 Model Name : SP-0232  
 Trademark : N/A

Measurement Procedure Used:

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

The above equipment was tested by EMTEK (SHENZHEN) 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 : July 17,2023 to July 31,2023

*Una Yu*

Prepared by : \_\_\_\_\_

Una Yu /Editor

Reviewer : \_\_\_\_\_

*Joe Xia*

Joe Xia/Supervisor

*[Signature]*

Approve & Authorized Signer : \_\_\_\_\_

Lisa Wang/Manager



## Modified History

Version	Report No.	Revision Date	Summary
	ENS2307170254W00102R	/	Original Report



## 2. EUT Specification

Characteristics	Description
<b>Product:</b>	DISNEY LED SPEAKER
<b>Model Number:</b>	SP-0232
<b>SKU:</b>	9099504, 9099505, 9099506
<b>UPC:</b>	1922342849484, 1922342849491, 1922342849507
<b>COLOR:</b>	BLACK, PURPLE MULTI, GREEN MULTI
<b>Sample:</b>	1#
<b>Data Rate:</b>	1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation
<b>Modulation:</b>	GFSK, $\pi/4$ -DQPSK, 8DPSK
<b>Operating Frequency Range(s) :</b>	2402-2480MHz
<b>Number of Channels:</b>	79 channels
<b>Transmit Power Max:</b>	-3.49 dBm(0.000448 W)
<b>Antenna Gain:</b>	-0.68 dBi
<b>Power supply:</b>	DC 5V from USB DC 3.7V from battery
<b>Evaluation applied:</b>	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

### 3. Test Requirement

#### SAR 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:

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

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

- $f_{(\text{GHz})}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>25</sup>
- 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  $\leq 50$  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

Antenna gain:-0.68 dBi

Transmit Frequency(MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	GFSK	-4.11	-5±1	-4	0.1234	3
2441	GFSK	-6.67	-7±1	-6	0.0785	3
2480	GFSK	-7.02	-8±1	-7	0.0628	3
2402	Π/4-DQPSK	-3.74	-4±1	-3	0.1554	3
2441	Π/4-DQPSK	-6.05	-7±1	-6	0.0785	3
2480	Π/4-DQPSK	-6.59	-7±1	-6	0.0791	3
2402	8DPSK	-3.49	-4±1	-3	0.1554	3
2441	8DPSK	-5.8	-6±1	-5	0.0988	3
2480	8DPSK	-6.41	-7±1	-6	0.0791	3

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

\*\*\* End of Report \*\*\*