

# TEST REPORT

**Product Name** : TENS&EMS  
**Model Number** : HZ9151B, HZ9151C, HZ9151D  
**FCC ID** : 2AMYMHZ9151BCD

**Prepared for** : Hong Qiangxing(Shenzhen) electronics Limited  
**Address** : 2F, Yongcheng Blvd, Xicheng Industrial area, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province, 518126, China

**Prepared by** : EMTEK (SHENZHEN) CO., LTD.  
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**Report Number** : ENS2505150111W00202R  
**Date of sample receipt** : May 13, 2025  
**Date(s) of Tests** : May 13, 2025 to Jun 19, 2025  
**Date of issue** : Jun 20, 2025

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## 1. TEST RESULT CERTIFICATION

Applicant : Hong Qiangxing(Shenzhen) electronics Limited  
Address : 2F, Yongcheng Blvd, Xicheng Industrial area, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province, 518126, China  
Manufacturer : Hong Qiangxing(Shenzhen) electronics Limited  
Address : 2F, Yongcheng Blvd, Xicheng Industrial area, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province, 518126, China  
Factory : Hong Qiangxing(Shenzhen) electronics Limited  
Address : 2F, Yongcheng Blvd, Xicheng Industrial area, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province, 518126, China  
EUT : TENS&EMS  
Model Name : HZ9151B, HZ9151C, HZ9151D  
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 : May 13, 2025 to Jun 19, 2025

Prepared by :   
Una Yu /Editor

Reviewer :   
Joe Xia/Supervisor

Approve & Authorized Signer :   
Lisa Wang/Manager



## Modified History

| Version | Report No.           | Revision Date | Summary         |
|---------|----------------------|---------------|-----------------|
|         | ENS2505150111W00202R | /             | Original Report |
|         |                      |               |                 |
|         |                      |               |                 |



## 2. EUT Specification

| Characteristics                | Description                                                                                                                                                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product:                       | TENS&EMS                                                                                                                                                            |
| Model Number:                  | HZ9151B, HZ9151C, HZ9151D<br>(Note: These models are the same, except for the model numbers and the accessories sold as a set; HZ9151B was selected for full test.) |
| Sample:                        | 1#                                                                                                                                                                  |
| Device Type :                  | 2.4G SRD                                                                                                                                                            |
| Channe Separation :            | 1MHz                                                                                                                                                                |
| Modulation:                    | GFSK                                                                                                                                                                |
| Operating Frequency Range(s) : | 2402-2470MHz                                                                                                                                                        |
| Number of Channels:            | 69 Channels                                                                                                                                                         |
| Transmit Power Max:            | 4.98 dBm(0.003148 W)                                                                                                                                                |
| Antenna Gain:                  | 2 dBi                                                                                                                                                               |
| Power supply:                  | DC 5V from USB<br>DC3.7V from battery                                                                                                                               |
| Evaluation applied:            | <input type="checkbox"/> MPE Evaluation<br><input checked="" type="checkbox"/> 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*  $\leq 50$  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: 2 dBi

| Transmit Frequency (MHz) | Mode | Measured Power (dBm) | Tune up Power (dBm) | Max tune up power (dBm) | Calculation Result | Calculation threshold(1-g SAR) |
|--------------------------|------|----------------------|---------------------|-------------------------|--------------------|--------------------------------|
| 2402                     | GFSK | 4.87                 | 5±1                 | 6                       | 1.2340             | 3                              |
| 2436                     | GFSK | 4.98                 | 5±1                 | 6                       | 1.2427             | 3                              |
| 2470                     | GFSK | 4.64                 | 4±1                 | 5                       | 0.9940             | 3                              |

According to KDB 447498 D01 V06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

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