# TEST REPORT

## Maximum Permissive Exposure

## for

| | |
|---|---|
| **Products Name:** | **PILLOW SPEAKER** |
| **Model No.:** | **TE-PLSPK, TE-PLSPK-WHT , TKTE-PLSPK-WHT, WNTE-PLSPK-WHT, TATE-PLSPK-WHT** |
| **FCC ID:** | **2BBPLTEPLSPK** |
| **Report No.:** | **SST2610E083** |
| **Issued Date:** | **2026-10-15** |

## Issued for

**TRUSTSTONE GROUP, LLC**

**1359 Broadway,3rd Floor New York NY 10018**

## Issued by

**Dongguan Qiyang Testing Technology Co., Ltd.**

**Room 101-1, Building 1, No.19, Tianxin Butterfly 1st Road, Huangjiang, Dongguan, Guangdong, China**

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# 1. Basic Introduction

| | | |
|---|---|---|
| **Applicant's name..... :** | TRUSTSTONE GROUP, LLC | |
| **Address ..... :** | 1359 Broadway,3rd Floor New York NY 10018 | |
| **Manufacturer's name ..... :** | TRUSTSTONE GROUP, LLC | |
| **Address ..... :** | 1359 Broadway,3rd Floor New York NY 10018 | |
| **Factory's name ..... :** | TRUSTSTONE GROUP, LLC | |
| **Address ..... :** | 1359 Broadway,3rd Floor New York NY 10018 | |
| **Products Name..... :** | PILLOW SPEAKER | |
| **Model No..... :** | TE-PLSPK, TE-PLSPK-WHT , TKTE-PLSPK-WHT, WNTE-PLSPK-WHT, TATE-PLSPK-WHT | |
| **Trade Mark ..... :** | TECH ENTHUSIAST | |
| **Rating(s)..... :** | Battery: 3.7 VDC ~ 4.2 VDC; 400 mAh; 1.48 Wh | |
| Software version..... : | 8DAB-44300125 | |
| Hardware version ..... : | V1.0 | |
| Operation frequency..... : | 2402MHz ~ 2480MHz | |
| Channel numbers..... : | 79 | |
| Channel separation ..... : | 1MHz | |
| Modulation technology .... : | GFSK, pi/4 DQPSK, 8DPSK | |
| Antenna type ..... : | PCB Antenna | |
| Antenna gain ..... : | -0.58 dBi(declared by applicant) | |
| **Date of sample receipt..... :** | 2026-9-15 | |
| **Date of Test..... :** | 2026-9-15~2026-10-14 | |
| **Standard(s) ..... :** | FCC 47 CFR PART 1.1310<br>FCC 47 CFR PART 1.1307<br>447498 D04 Interim General RF Exposure Guidance v01 | |
| **Tested by (+signature)..... :** | Connor Ma | Connor Ma |
| **Check by (+signature)..... :** | Davis Zhou | Davis Zhou |
| **Approved by (+signature).... :** | Tiger Chen | Tiger Chen |

DONGGUAN QIYANG TESTING TECHNOLOGY CO.,LTD.

# 2. RF EXPOSURE EVALUATION MAXIMUM PERMISSIBLE EXPOSURE (MPE)

## 2.1 Introduction

This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC Rules and Regulations and RSS-102 of Industry Canada.

The limit for maximum permissible exposure(MPE), specific in §1.1307of the FCC Rules and KDB 447498 D04 were list in below

The available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold $P_{th}$ (mW) described in the following formula.

$$P_{\text{th}}\ (\text{mW}) = ERP_{20\ \text{cm}}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases} \quad \text{(B. 1)}$$

$$P_{\text{th}}\ (\text{mW}) = \begin{cases} ERP_{20\ \text{cm}}(d/20\ \text{cm})^x & d \le 20\ \text{cm} \\ ERP_{20\ \text{cm}} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases} \quad \text{(B. 2)}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ \text{cm}}\sqrt{f}}\right)$$

and $f$ is in GHz, $d$ is the separation distance (cm), and $ERP_{20\text{cm}}$ is per Formula (B.1).
The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

| Frequency (MHz) | Distance (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 300 | 39 | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 |
| 450 | 22 | 44 | 67 | 89 | 112 | 135 | 158 | 180 | 203 | 226 |
| 835 | 9 | 25 | 44 | 66 | 90 | 116 | 145 | 175 | 207 | 240 |
| 1900 | 3 | 12 | 26 | 44 | 66 | 92 | 122 | 157 | 195 | 236 |
| 2450 | 3 | 10 | 22 | 38 | 59 | 83 | 111 | 143 | 179 | 219 |
| 3600 | 2 | 8 | 18 | 32 | 49 | 71 | 96 | 125 | 158 | 195 |
| 5800 | 1 | 6 | 14 | 25 | 40 | 58 | 80 | 106 | 136 | 169 |

For multiple RF sources

$$\sum_{i=1}^{a}\frac{P_i}{P_{th,i}} + \sum_{j=1}^{b}\frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c}\frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

## 2.2 MPE Calculation

| Type | Frequency (MHz) | Antenna Gain (dBi) | Output power (dBm) | Output power (mW) | ERP (dBm) | ERP (mW) | Limit (mW, d=0.5cm) | Ratio(%) | Result |
|---|---|---|---|---|---|---|---|---|---|
| BT | 2402 | -0.58 | -1.16 | 0.766 | -3.89 | 0.408 | 2.8 | 27.36 | PASS |

Note: The available RF source will be Maximum time-averaged power or ERP, whichever is greater.
Pth= 3060 * $(d/20)^x$, where x is $-\log_{10}$(60/3060 * sqrt(F, in GHz));
eg: 3060*(0.5/20)^(-$\log_{10}$( 60/3060*sqrt(2.402=2.8

# 3 Conclusion

The device meets the portable RF exposure limit at a minimum separation distance as specified in §2.1093 of the FCC Rules and Regulations. An appropriate RF exposure compliance statement will be placed in the user's manual.

*******End of report*******