

# TEST REPORT

## Maximum Permissive Exposure

for

Products Name: Bluetooth Wireless Telephone

Model No.: Refer to section 2.2

FCC ID: 2BWLA-CT8022

Report No.: SST2605E197

Issued Date: 2026-5-26

Issued for

SHENZHEN CHEETA TECHNOLOGY CO., LTD.

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CN(China)

Issued by

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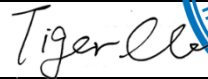
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## 1. Basic Introduction

|                                        |                                                                                                           |                                                                                      |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Applicant's name</b> ..... :        | SHENZHEN CHEETA TECHNOLOGY CO., LTD.                                                                      |                                                                                      |
| <b>Address</b> .....                   | 913 globe building, China South City, Ping Hu, ShenZhen, China,South City, Shenzhen, Guangdong, CN(China) |                                                                                      |
| <b>Manufacturer's name</b> .....       | SHENZHEN CHEETA TECHNOLOGY CO., LTD.                                                                      |                                                                                      |
| <b>Address</b> .....                   | 913 globe building, China South City, Ping Hu, ShenZhen, China,South City, Shenzhen, Guangdong, CN(China) |                                                                                      |
| <b>Factory's name</b> .....            | SHENZHEN CHEETA TECHNOLOGY CO., LTD.                                                                      |                                                                                      |
| <b>Address</b> .....                   | 913 globe building, China South City, Ping Hu, ShenZhen, China,South City, Shenzhen, Guangdong, CN(China) |                                                                                      |
| <b>Products Name</b> ..... :           | Bluetooth Wireless Telephone                                                                              |                                                                                      |
| <b>Model No</b> ..... :                | Refer to section 2.2                                                                                      |                                                                                      |
| <b>Trade Mark</b> .....                | N/A                                                                                                       |                                                                                      |
| <b>Rating(s)</b> ..... :               | DC 3.7V 4.44Wh battery<br>Or DC 5V by external power supply                                               |                                                                                      |
| <b>Software version</b> .....          | /                                                                                                         |                                                                                      |
| <b>Hardware version</b> .....          | /                                                                                                         |                                                                                      |
| <b>Operation frequency</b> .....       | 2402MHz ~ 2480MHz                                                                                         |                                                                                      |
| <b>Channel numbers</b> .....           | 79                                                                                                        |                                                                                      |
| <b>Channel separation</b> .....        | 1MHz                                                                                                      |                                                                                      |
| <b>Modulation technology</b> .....     | GFSK, pi/4 DQPSK, 8DPSK                                                                                   |                                                                                      |
| <b>Antenna type</b> ..... :            | PCB Antenna                                                                                               |                                                                                      |
| <b>Antenna gain</b> ..... :            | 1.68 dBi                                                                                                  |                                                                                      |
| <b>Date of sample receipt</b> ..... :  | 2026-5-14                                                                                                 |                                                                                      |
| <b>Date of Test</b> ..... :            | 2026-5-14~2026-5-25                                                                                       |                                                                                      |
| <b>Standard(s)</b> .....               | FCC 47 CFR PART 1.1310<br>FCC 47 CFR PART 1.1307<br>KDB 447498 D04                                        |                                                                                      |
| <b>Tested by (+signature)</b> ..... :  | Connor Ma                                                                                                 |  |
| <b>Check by (+signature)</b> ..... :   | Davis Zhou                                                                                                |  |
| <b>Approved by (+signature)</b> .... : | Tiger Chen                                                                                                |  |



## 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 §1.1310, §1.1307(b) of the FCC Rules and KDB 447498 D01 were list in below

| Frequency range (MHz)                                    | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (i) Limits for Occupational/Controlled Exposure          |                               |                               |                                     |                          |
| 0.3–3.0                                                  | 614                           | 1.63                          | *(100)                              | ≤6                       |
| 3.0–30                                                   | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | <6                       |
| 30–300                                                   | 61.4                          | 0.163                         | 1.0                                 | <6                       |
| 300–1,500                                                |                               |                               | f/300                               | <6                       |
| 1,500–100,000                                            |                               |                               | 5                                   | <6                       |
| (ii) Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                          |
| 0.3–1.34                                                 | 614                           | 1.63                          | *(100)                              | <30                      |
| 1.34–30                                                  | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | <30                      |
| 30–300                                                   | 27.5                          | 0.073                         | 0.2                                 | <30                      |
| 300–1,500                                                |                               |                               | f/1500                              | <30                      |
| 1,500–100,000                                            |                               |                               | 1.0                                 | <30                      |

f = frequency in MHz. \* = Plane-wave equivalent power density.

The procedure used to determine the RF power density was based upon a calculation for determining compliance with the MPE requirements.

The power generated by each transmitter used in this product was initially measured by a spectrum analyzer and the powers were recorded. Through use of the Friis transmission formula and knowledge of the maximum antenna gain to be used, the power density level is calculated at a distance of 20cm.

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where,

$P_d$  = Power Density (mW/cm<sup>2</sup>),

$\pi$  = 3.1416,

$P_{out}$  = output power to antenna (mW),

$r$  = distance between observation point and center of the radiator (cm),

$G$  = gain of antenna in linear scale

There is no co-location between the electric fields of any two transmitters therefore the power densities are calculated for each individual transmitter by frequency at 20cm spacing

## 2.2 MPE Calculation

| Type | Frequency (MHz) | Antenna Gain (dBi) | Output power (dBm) | Output power (mW) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Result |
|------|-----------------|--------------------|--------------------|-------------------|-------------------------------------|-----------------------------|--------|
| BT   | 2402            | 1.68               | 1.74               | 1.49              | 0.0004                              | 1                           | PASS   |

## 3 Conclusion

The device meets the mobile RF exposure limit at a minimum 20cm separation distance as specified in §2.1091 of the FCC Rules and Regulations. An appropriate RF exposure compliance statement will be placed in the user's manual.

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