

## RF Exposure Evaluation Report

**Product** : Smart Watch  
**Trade mark** : AOC  
**Model/Type reference** : Z17  
**Serial Number** : N/A  
**Report Number** : EED32R80730003  
**FCC ID** : 2BPS4AOC8ARTEX-Z17  
**Date of Issue** : Jun. 04, 2025  
**Test Standards** : 47 CFR Part 1.1307  
47 CFR Part 1.1310  
47 CFR Part 2.1091  
47 CFR Part 2.1093  
KDB 447498 D04 Interim General RF  
Exposure Guidance v01  
**Test result** : PASS

Prepared for:

**SHENZHEN ARTEX TONGXUN Technology Co., Ltd**  
**1805 West Building Tian'an Digital Innovation Technology Plaza (Phase II)**  
**Intersection of Binhe Road & Xiangmihu Road Futian District Shenzhen**

Prepared by:

**Centre Testing International Group Co., Ltd.**  
**Hongwei Industrial Park, Zone 70, Bao'an District,**  
**Shenzhen, Guangdong, China**  
**TEL: +86-755-3368 3668**  
**FAX: +86-755-3368 3385**



Compiled by:

*Keven Tan.*

Keven Tan

Approved by:

*Aaron Ma*

Aaron Ma

Reviewed by:

*Frazer Li*

Frazer Li

Date:

Jun. 04, 2025

Check No.:1551140525

1 Contents

|                                                             | Page |
|-------------------------------------------------------------|------|
| 1 CONTENTS .....                                            | 2    |
| 2 GENERAL INFORMATION .....                                 | 3    |
| 2.1 CLIENT INFORMATION .....                                | 3    |
| 2.2 GENERAL DESCRIPTION OF EUT .....                        | 3    |
| 2.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD ..... | 3    |
| 2.4 TEST LOCATION .....                                     | 4    |
| 2.5 DEVIATION FROM STANDARDS .....                          | 4    |
| 2.6 ABNORMALITIES FROM STANDARD CONDITIONS .....            | 4    |
| 2.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER .....       | 4    |
| 3 SAR EVALUATION .....                                      | 5    |
| 3.1 RF EXPOSURE COMPLIANCE REQUIREMENT .....                | 5    |
| 3.1.1 Limits .....                                          | 5    |
| 3.1.2 Test Procedure .....                                  | 5    |
| 3.1.3 EUT RF Exposure Evaluation .....                      | 6    |

## 2 General Information

### 2.1 Client Information

|                          |                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:               | SHENZHEN ARTEX TONGXUN Technology Co., Ltd                                                                                                                           |
| Address of Applicant:    | 1805 West Building Tian'an Digital Innovation Technology Plaza (Phase II)<br>Intersection of Binhe Road & Xiangmihu Road Futian District Shenzhen                    |
| Manufacturer:            | TPV Audio and Visual Technology (Shenzhen) Co., Ltd                                                                                                                  |
| Address of Manufacturer: | 4201 Block A Bldg.2 Shenzhen Bay Inno.& Tech.CTR No.3156 Keyuan South Rd.<br>High-tech Zone C. Yuehai str. Nanshan Dist. Shenzhen GUANGDONG China                    |
| Factory:                 | SHENZHEN LANHAIJIAHE Electronic Technology Co., Ltd                                                                                                                  |
| Address of Factory:      | 1108B Feiyada Technology Building No. 002 Gaoxin South 1st Road High Tech<br>Zone Community Yuehai Street Nanshan District Shenzhen City Guangdong<br>Province China |

### 2.2 General Description of EUT

|                 |             |
|-----------------|-------------|
| Product Name:   | Smart Watch |
| Model No.(EUT): | Z17         |
| Trade Mark:     | AOC         |

### 2.3 Product Specification subjective to this standard

|                       |                                             |
|-----------------------|---------------------------------------------|
| Frequency Range:      | 2402MHz~2480MHz                             |
| Modulation Type:      | BLE: GFSK<br>BT: GFSK, $\pi/4$ DQPSK, 8DPSK |
| Test Power Grade:     | Default                                     |
| Test Software of EUT: | SiFli_RF_Tool_v1.1.3                        |
| Antenna Type:         | Internal Antenna                            |
| Antenna Gain:         | 1dBi                                        |
| Power Supply:         | DC 5V                                       |
| Sample Received Date: | May 21, 2025                                |
| Sample tested Date:   | May 21, 2025 to May 28, 2025                |

## 2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

## 2.5 Deviation from Standards

None.

## 2.6 Abnormalities from Standard Conditions

None.

## 2.7 Other Information Requested by the Customer

None.

### 3 SAR Evaluation

#### 3.1 RF Exposure Compliance Requirement

##### 3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold  $P_{th}$  (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula

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

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).

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

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

##### 3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

### 3.1.3 EUT RF Exposure Evaluation

For Stand alone:

BLE:

| Frequency (MHz) | Estimation distance (cm) | Max. Conducted Output power (dBm) | Antenna Gain (dBi) | ERP (dBm) | ERP (mW) | Limit (mW) | MPE ratio | Result |
|-----------------|--------------------------|-----------------------------------|--------------------|-----------|----------|------------|-----------|--------|
| 2402            | 0.5                      | -0.75                             | 1.00               | -1.90     | 0.6457   | 2.7877     | 0.2316    | Pass   |

BT:

| Frequency (MHz) | Estimation distance (cm) | Max. Conducted Output power (dBm) | Antenna Gain (dBi) | ERP (dBm) | ERP (mW) | Limit (mW) | MPE ratio | Result |
|-----------------|--------------------------|-----------------------------------|--------------------|-----------|----------|------------|-----------|--------|
| 2480            | 0.5                      | 3.6                               | 1.00               | 2.45      | 1.7579   | 2.7172     | 0.6470    | Pass   |

**Note:**

- ① EIRP=conducted power+antenna gain;
- ②  $ERP = EIRP - 2.15$ ;
- ③  $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$ ;
- ④  $ERP(mW) = 10^{(ERP(dBm)/10)}$ ;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32R80730001, EED32R80730002 and only the worst case data was recorded in the report.

## Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;

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