

RF Exposure Evaluation Report

Product : Smart Watch
Trade mark : AOC
Model/Type reference : E07, AOC-Swatch Energy
Serial Number : N/A
Report Number : EED32R80728903
FCC ID : 2BPS4AOC8ARTEX-E07
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:

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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) 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. 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 Zone Community Yuehai Street Nanshan District Shenzhen City Guangdong Province China

2.2 General Description of EUT

Product Name:	Smart Watch
Model No.(EUT):	E07
Trade Mark:	AOC

2.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	BLE: GFSK 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 Pth (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). Pth 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 ERP20cm 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	-0.08	1.00	-1.23	0.7534	2.7877	0.2702	Pass

BT:

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	-0.09	1.00	-1.24	0.7516	2.7877	0.2696	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 EED32R80728901, EED32R80728902 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;
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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;
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*** End of Report ***