

# RF Exposure Evaluation Report

**Report No.:** 2405V58287EF

**Applicant:** Whoop International Trading Limited

**Address:** Flat-B 8/F Chong Gming Building 72 Cheung Sha Wan Road,  
Kowloon Hong Kong China

**Product Name:** 4G smart watch

**Product Model:** FLEX

**Multiple Models:** N/A

**Trade Mark:** SUNTAK

**FCC ID:** 2AP7LWT003

**Standards:** 47 CFR §1.1310  
KDB 447498 D01 General RF Exposure Guidance v06

**Test Date:** 2024-08-12

**Test Result:** Complied

**Report Date:** 2024-08-20

**Reviewed by:**

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**Approved by:**

*Jacob Kong*

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## Revision History

Version No.	Issued Date	Description
00	2024-08-20	Original

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# 1 General Information

## 1.1 Client Information

Applicant:	Whoop International Trading Limited
Address:	Flat-B 8/F Chong Gming Building 72 Cheung Sha Wan Road, Kowloon Hong Kong China
Manufacturer:	Shenzhen Teleone Technology Co., Ltd
Address:	Tower B 5/F, Shanshui Building, Nanshan Yungu Innovation Industry Park, 4093 Liuxian Avenue, Shenzhen, China

## 1.2 Product Description of EUT

The EUT is 4G smart watch that contains Classic Bluetooth, BLE, 2.4G WLAN, GSM/GPRS and LTE radios.

Sample Serial Number	2OQH-1, 2OQH-2 (assigned by WATC)
Sample Received Date	2024-07-19
Sample Status	Good Condition
Frequency Range	BT: 2402MHz - 2480MHz 2.4G WLAN : 2412MHz - 2462MHz BLE: 2402MHz - 2480MHz GSM850: 824-849 MHz(TX); 869-894 MHz (RX) PCS1900: 1850-1910 MHz(TX); 1930-1990 MHz (RX) LTE Band 2: 1850-1910 MHz(TX); 1930-1990 MHz (RX) LTE Band 4: 1710-1755 MHz(TX); 2110-2155 MHz (RX) LTE Band 5: 824-849 MHz(TX); 869-894 MHz (RX) LTE Band 12: 699-716 MHz(TX); 729-746 MHz (RX) LTE Band 66: 1710-1780 MHz(TX); 2100-2180 MHz (RX)
Maximum Conducted Output Power	BT: 7.93dBm; 2.4G WLAN: 13.66dBm; BLE: -0.07dBm GSM850: 28.35dBm; PCS1900: 29.66dBm; LTE Band 2: 22.85dBm; LTE Band 4: 22.71dBm; LTE Band 5: 20.14dBm; LTE Band 12: 20.14dBm; LTE Band 66: 22.83dBm;
Modulation Technology	GFSK, $\pi/4$ -DQPSK, 8DPSK, DSSS, OFDM, GMSK, QPSK, 16QAM
Antenna Gain <sup>#</sup>	BT/BLE/2.4G WLAN: -4.52dBi GSM850/ LTE Band 5: -8.83dBi PCS1900/ LTE Band 2:: -1.74dBi LTE Band 4/ LTE Band 66: -2.00dBi LTE Band 12: -6.55dBi
Power Supply	DC 5V from adapter or DC 3.85V from battery
Adapter Information	N/A
Modification	Sample No Modification by the test lab

## 1.3 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: [qa@watc.com.cn](mailto:qa@watc.com.cn)

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

## 2 RF Exposure Evaluation

### 2.1 Standard

According to §1.1310, radio frequency devices shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

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, 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
- 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.

### 2.2 Result

Consider wrist-worn mode:

Radio	Frequency (MHz)	Maximum Conducted Power including Tune-up Tolerance		Min. test separation distance (mm)	Result (10-g extremity SAR)	Exclusion Limit (10-g extremity SAR)	Verdict
		(dBm)	(mW)				
BT	2402-2480	8.5	7.08	5	2.2	7.5	Pass
BLE	2402-2480	0.2	1.05	5	0.3	7.5	Pass
2.4G WLAN	2412-2462	10.6	11.48	5	3.6	7.5	Pass

*Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.*

Consider held next to mouth:

Radio	Frequency (MHz)	Maximum Conducted Power including Tune-up Tolerance		Min. test separation distance (mm)	Result (1-g SAR)	Exclusion Limit (1-g SAR)	Verdict
		(dBm)	(mW)				
BT	2402-2480	8.5	7.08	10	1.1	3.0	Pass
BLE	2402-2480	0.2	1.05	10	0.2	3.0	Pass
2.4G WLAN	2412-2462	10.6	11.48	10	1.8	3.0	Pass

*Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.*

**Result: Complied, for BT/BLE/2.4G WLAN No need standalone SAR test.**

For GSM 850/1900 and LTE Band 2/4/5/12/66 please refer to the SAR test report: 2401V58287E-SA

### **3 E.U.T Photo**

Please refer to the attachment 2405V58287E External photo and 2405V58287E Internal photo.

**---End of Report---**