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# RF Exposure Evaluation Report

**Report No.:** CQASZ20211102003E-02  
**Applicant:** Shenzhen DO Intelligent Technology Co., Ltd  
**Address of Applicant:** 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China

**Equipment Under Test (EUT):**  
**EUT Name:** Smart Watch  
**Test Model No.:** ID206  
**Model No.:** ID206  
**Brand Name:** IDO  
**FCC ID:** 2AHFT7450  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2021-11-19  
**Date of Test:** 2021-11-19 to 2021-11-28  
**Date of Issue:** 2021-12-8  
**Test Result:** **PASS\***

\*In the configuration tested, the EUT complied with the standards specified above

**Tested By:** Lewis Zhou

( Lewis Zhou )

**Reviewed By:** Rock Huang

( Rock Huang )

**Approved By:** Jack ai

( Jack ai )



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20211102003E-02	Rev.01	Initial report	2021-12-8

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### 3 General Information

#### 3.1 Client Information

Applicant:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Applicant:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Manufacturer:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Manufacturer:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Factory:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Factory:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China

#### 3.2 General Description of EUT

Product Name:	Smart Watch
Model No.:	ID206
Test Model No	ID206
Trade Mark:	IDO
EUT Supports Radios application:	Bluetooth mode 2402-2480MHz
Software Version:	V105
Hardware Version:	V1.2
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
EUT Power Supply:	Li-ion battery: DC 3.8V 300mAh 1.14Wh, Charge by DC 5V 350mA for adapter

#### 3.3 General Description of BT&BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	BT5.0
Modulation Technique:	Non Frequency Hopping Spread Spectrum(NFHSS)
Modulation Type:	GFSK
Number of Channel:	BLE:40
Transfer Rate:	BLE:1Mbps
Test Software of EUT:	NRFgo Studio
Antenna Type:	FPC antenna
Antenna Gain:	0.09 dBi

## 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 4.1.2 Limits

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:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

#### 4.1.3 EUT RF Exposure

##### Measurement Data

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-1.39	-1±1	0	1	0.3099	3.0
Middle (2440MHz)	-0.79	-0.5±1	0.5	1.122	0.3505	
Highest (2480MHz)	-1.03	-1±1	0	1	0.3150	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20211102003E-01.

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