

RF Exposure Evaluation Report

Applicant: Shenzhen Youmi Intelligent Technology Co., Ltd.

Address of Applicant: 406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan District, Shenzhen City, China

Equipment Under Test (EUT)

Product Name: Smart Watch

Model No.: Uwatch2, Uwatch2S, Uwatch

Trade mark: UMIDIGI

FCC ID: 2ATZ4-UWATCH2

Applicable standards: FCC CFR Title 47 Part 2 Subpart J Section 2.1093

Date of sample receipt: 12 Mar., 2020

Date of Test: 13 Mar., to 19 Mar., 2020

Date of report issue: 19 Mar., 2020

Test Result: PASS*

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	19 Mar., 2020	Original

Tested by:

Janet Wei

Date:

19 Mar., 2020

Test Engineer

Reviewed by:

Winner Zhang

Date:

19 Mar., 2020

Project Engineer

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Youmi Intelligent Technology Co., Ltd.
Address:	406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan District, Shenzhen City, China
Manufacturer:	Shenzhen Youmi Intelligent Technology Co., Ltd.
Address:	406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan District, Shenzhen City, China
Factory:	Shenzhen Ying Keda Technology Co. Ltd.
Address:	3rd and 4th floors, No. 88 Silian Xingwang Road Henggang street, Longgang District, Shenzhen China

4.2 General Description of E.U.T.

Product Name:	Smart Watch
Model No.:	Uwatch2, Uwatch2S, Uwatch
Operation Frequency:	BLE: 2402MHz~2480MHz
Modulation technology:	BLE: GFSK
Antenna Type:	Internal Antenna
Antenna gain:	BLE: -0.84 dBi
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	Model No.: Uwatch2, Uwatch2S, Uwatch were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.

4.3 Operating Modes

Operating mode	Detail description
BLE mode	Keep the EUT in continuously transmitting in BLE mode

4.4 Additions to, deviations, or exclusions from the method

No

4.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

4.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

5 Technical Requirements Specification in FCC CFR Title 47 Part 2.1093

5.1 Limits

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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 ≤ 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

5.2 Result

Worse case for BLE as below:

[2402MHz: -3.83dBm (0.41 mW) output power]

$(0.41 \text{ mW} / 5\text{mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.127 < 3.0$ for 1-g SAR

5.3 Conclusion

The device is exempt from the RF exposure evaluation.

-----End of report-----