

RF Exposure Evaluation Report

Report No.: RWAY202300051F

Applicant: Shenzhen Youmi Intelligent Technology Co., Ltd.

Address: 406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan

District, Shenzhen City, China

Product Name: Smart phone

Product Model: PA3NB15PA

Multiple Models: PA2310GBB

Trade Mark: UMIDIGI

FCC ID: 2ATZ4-A15PT

Standards: 47 CFR §1.1310

KDB 447498 D01 General RF Exposure Guidance v06

Test Date: 2023-12-01~2023-12-20

Test Result: Complied

Report Date: 2024-02-04

Reviewed by:

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Revision History

| Version No. Issued Date | | Description | | |
|-------------------------|------------|-------------|--|--|
| 00 | 2024-02-04 | Original | | |

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1 General Information

1.1 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 | | |

1.2 Product Description of EUT

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|--|---|--|--|--|--|
| Sample Serial Number | 2Z-1 (assigned by WATC) | | | | |
| Sample Received Date | 2023-11-16 | | | | |
| Sample Status | Good Condition | | | | |
| Frequency Range | BT/BLE: 2402MHz - 2480MHz | | | | |
| | NFC: 13.56MHz | | | | |
| Maximum Conducted | BT: 2.62dBm | | | | |
| Output Power | BLE: 0.43dBm | | | | |
| Maximum E-field Strength: | NFC: 64.97dBuV/m@3m | | | | |
| Modulation Technology | GFSK, π/4 DQPSK, 8DPSK | | | | |
| Antenna Gain [#] | BT/BLE: 0.81dBi | | | | |
| Power Supply | DC 3.87V from battery or 5V/9V/12V/15V/20V/11V from adapter | | | | |
| Operating temperature# | -30 deg.C to +50 deg.C | | | | |
| Adapter Information | Model: HJ-PD66W-US | | | | |
| | Input: AC 100-240V~50/60Hz, 1.5A | | | | |
| | Output: DC 5.0V, 3.0A 15.0W or DC 9.0V 3.0A 27.0W or | | | | |
| | DC 12.0V 3.0A 36.0W or DC 15.0V 3.0A 45.0W or | | | | |
| | DC 20.0V 3.25A 65.0W or DC 11.0V 6.0A 66.0W MAX | | | | |
| Modification | Sample No Modification by the test lab | | | | |

1.3 Laboratory Location

World Alliance Testing and 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

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.

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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:

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

- f(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 ≤ 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.

- c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion:
- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by [1 + log(100/f(MHz))]
- 2) For test separation distances \leq 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz

2.2 Result

| Radio | Frequency (MHz) | Maximum Conducted Power including Tune-up Tolerance (dBm) | Min. test separation distance (mm) | Result (1-g SAR) | Exclusion Limit (1-g SAR) | Verdict |
|-------|--------------------|---|---|---------------------|---------------------------------|---------|
| ВТ | 2402-2480 | 3.0 | 5 | 0.6 | 3.0 | Pass |
| BLE | 2402-2480 | 0.5 | 5 | 0.4 | 3.0 | Pass |

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

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| Radio | Frequency (MHz) | Maximum E-Field Strength | Maximum EIRP | | Min. test separation distance | Exclusion Limit | Verdict |
|-------|--------------------|-----------------------------|--------------|--------|-------------------------------------|--------------------|---------|
| | | (dBuV/m@3m) | (dBm) | (mW) | (mm) | (mW) | |
| NFC | 13.56 | 64.97 | -30.23 | 0.0009 | 5 | 443 | Pass |

Note: $EIRP[dBm] = E[dB\mu V/m] - 95.2$ for d = 3 m.

SAR test exclusion threshold for NFC(13.56MHz) separation distance < 50mm

=[474*(1 + log(100/f(MHz)))]/2

= 443mW

Result: Complied, No need standalone SAR test.

---End of Report---