

RF Exposure Evaluation Report

Product : Digital Automatic Blood Pressure Monitor
Trade mark : N/A
Model/Type reference : MD6310, MD6320
Serial Number : N/A
Report Number : EED32R80766302
FCC ID : 2ABAFMD6310
Date of Issue : Jul. 17, 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:

Grandway Technology(Shenzhen)Limited
No. 5, the Second industrial Zone, Zhukeng Community, Longtian Street,
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2 General Information

2.1 Client Information

| | |
|--------------------------|--|
| Applicant: | Grandway Technology(Shenzhen)Limited |
| Address of Applicant: | No. 5, the Second industrial Zone, Zhukeng Community, Longtian Street, Pingshan District, 518118 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA |
| Manufacturer: | Grandway Technology(Shenzhen)Limited |
| Address of Manufacturer: | No. 5, the Second industrial Zone, Zhukeng Community, Longtian Street, Pingshan District, 518118 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA |
| Factory: | Grandway Technology(Shenzhen)Limited |
| Address of Factory: | No. 5, the Second industrial Zone, Zhukeng Community, Longtian Street, Pingshan District, 518118 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA |

2.2 General Description of EUT

| | |
|-----------------|--|
| Product Name: | Digital Automatic Blood Pressure Monitor |
| Model No.(EUT): | MD6310, MD6320 |
| Test Model No.: | MD6310 |
| Trade Mark: | N/A |

2.3 Product Specification subjective to this standard

| | |
|-----------------------|---|
| Frequency Range: | 2402MHz~2480MHz |
| Modulation Type: | GFSK |
| Test Power Grade: | Default |
| Test Software of EUT: | FCC_assist_1.0.2.2 |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | -0.58dBi |
| Power Supply: | DC 3.7V |
| Sample Received Date: | Jun. 20, 2025 |
| Sample tested Date: | Jun. 20, 2025 to Jun. 24, 2025 |
| Remark: | Model No.: MD6310, MD6320 Only the model MD6310 was tested. since according to the declaration from the applicant, the electrical circuit design,PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on type of cuff and Model No. |

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, 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 P_{th} (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). P_{th} 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 $ERP_{20 \text{ cm}}$ 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:

| Frequency (MHz) | Estimation distance (cm) | Max. Conducted Output power (dBm) | Antenna Gain (dBi) | ERP (dBm) | ERP (mW) | Limit (mW) | MPE ratio | Result |
|--------------------|--------------------------------|---|--------------------------|--------------|-------------|---------------|--------------|--------|
| 2440 | 0.5 | 1.72 | -0.58 | -0.43 | 0.9057 | 2.7528 | 0.3290 | Pass |

Note:

① EIRP=conducted power+antenna gain;

② ERP=EIRP-2.15;

③ EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;

④ ERP(mW) = $10^{(ERP \text{ (dBm)}/10)}$;

⑤ The estimation distance is 0.5cm;

⑥ The test data please refer to the report of EED32R80766301 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;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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;
5. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***