

RF Exposure Evaluation Report

Product : Digital Automatic Blood Pressure Monitor
Trade mark : N/A
Model/Type reference : MD6300
Serial Number : N/A
Report Number : EED32P81858202
FCC ID : 2ABAFMD6300
Date of Issue : Jan. 12, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure
Guidance v06
Test result : PASS

Prepared for:

Grandway Technology (Shenzhen) Limited
No. 5, the Second Industrial Zone, Zhukeng Community, Longtian Street,
Pingshan District, 518118 Shenzhen, Guangdong,
PEOPLE'S REPUBLIC OF CHINA

Prepared by:

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2 Version

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4 General Information

4.1 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

4.2 General Description of EUT

Product Name:	Digital Automatic Blood Pressure Monitor
Model No.:	MD6300
Trade mark:	N/A

4.3 Product Specification subjective to this standard

Frequency Range:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM,QPSK,BPSK)
Test Power Grade:	Default
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	Battery DC 3.7V
Max Conducted Peak Output Power:	7.79dBm The Max Conducted Peak Output Power data refer to the report EED32P81858201
Sample Received Date:	Nov. 16, 2023
Sample tested Date:	Dec. 11, 2023 to Jan. 08, 2024
Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.	

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

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.

5.1.2 Limits

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 calculation¹⁷

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

1) For 2.4G WIFI

Measurement Data:

b mode (worst case)				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	7.79	7±1	8	6.310
Middle(2437MHz)	6.85	6±1	7	5.012
Highest(2462MHz)	6.18	6±1	7	5.012

b mode (worst case)							
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Separation Distance (cm)	Exclusion threshold
			(dBm)	(mW)			
Lowest (2412MHz)	7.79	7±1	8	6.310	1.987	0.5	3.0
Middle (2437MHz)	6.85	6±1	7	5.012	1.579		
Highest (2462MHz)	6.18	6±1	7	5.012	1.579		
Conclusion: the calculated value ≤3.0, SAR is exempted.							

Remark:

The Max Conducted Peak Output Power data refer to report Report No.: EEED32P81858201. Only the worst case was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***