

TEST REPORT

Product Name : SMART SHIATSU FOOT MASSAGER
Model Number : MDFM500
FCC ID : 2A2NP-MDFM500

Prepared for : Shenzhen City yuan Rui Mdt InfoTech Ltd
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1. TEST RESULT CERTIFICATION

Applicant : Shenzhen City yuan Rui Mdt InfoTech Ltd
Address : Room 201,A Bldg,NO.1QianWan 1st Road,ShenZhen Hong Kong Cooperation Zone,QianHai,ShenZhen,China
Manufacturer : Shenzhen City yuan Rui Mdt InfoTech Ltd
Address : Room 201,A Bldg,NO.1QianWan 1st Road,ShenZhen Hong Kong Cooperation Zone,QianHai,ShenZhen,China
EUT : SMART SHIATSU FOOT MASSAGER
Model Name : MDFM500
Trademark : MEDCURSOR

Measurement Procedure Used:

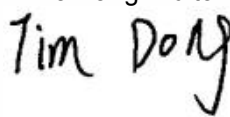
APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : November 17, 2022 to January 11, 2023

Prepared by : 
Xia Yang /Editor

Reviewer : 
Tim Dong/ Supervisor

Approve & Authorized Signer :  
Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2211170164E00103R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	SMART SHIATSU FOOT MASSAGER
Model Number:	MDFM500
Sample:	2#
Device Type:	802.11b 802.11g 802.11n(20MHz channel bandwidth) 802.11n(40MHz channel bandwidth) Bluetooth V5.0
Data Rate:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; 1Mbps for GFSK modulation
Modulation:	WIFI : DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; BLE: GFSK
Operating Frequency Range(s) :	WIFI: 2412-2462MHz for 802.11b/g/n(HT20); 2422-2452MHz for 802.11n(HT40); BLE: 2402-2480MHz
Number of Channels:	WIFI : 11 channels for 802.11b/g/n(HT20); 7 Channels for 802.11n(HT40); BLE: 40 Channels
Transmit Power Max:	WIFI : 1.86 dBm (0.001536 W) BLE : 1.70 dBm (0.001479 W)
Antenna Gain:	1.4 dBi
Power supply:	Input: AC 100-240V, 60/50Hz, 0.8A Output: DC 12V, 2.5A
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{24} \text{ where}$$

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- 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.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain:1.4 dBi

WIFI 2.4G

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2412	802.11b	1.86	1±1	2	0.4922873	3
2437		0.99	0±1	1	0.3930590	3
2462		1.64	1±1	2	0.4973636	3
2412	802.11g	1.36	1±1	2	0.4922873	3
2437		0.74	0±1	1	0.3930590	3
2462		1.54	1±1	2	0.4973636	3
2412	802.11n(HT20)	0.42	0±1	1	0.3910377	3
2437		-0.23	-1±1	0	0.3122179	3
2462		0.54	0±1	1	0.3950700	3
2422	802.11n(HT40)	-2.13	-3±1	-2	0.1963890	3
2437		-1.56	-2±1	-1	0.2480035	3
2452		-2.13	-3±1	-2	0.1976015	3

BLE 1M

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	GFSK	0.96	0±1	1	0.3902263	3
2441	GFSK	-0.50	-1±1	0	0.3124100	3
2480	GFSK	1.70	1±1	2	0.4991785	3

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***