

RF EXPOSURE REPORT



FCC Applicant: TaiDoc Technology Corp
6F, No. 127, Wugong 2nd Rd., Wugu Dist., 248 New Taipei
City, Taiwan

FCC Manufacturer: TaiDoc Technology Corp
B1-7F, No. 127, Wugong 2nd Rd., Wugu Dist., 248 New Taipei
City, Taiwan

Product Name: Blood Pressure Monitoring System

Brand Name: URIGHT,MbH,CLEVER

Model No.: TD-3128B, TD-3128X(X=0~9,D~Z and blank)

Model Difference: For different product exterior color, logo and market

Report Number: ER/2022/20061

FCC ID TM73128B01

Issue Date: May 25, 2022

Date of EUT Received: Feb. 16, 2022

Approved By _____

John Yeh

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1093.

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
ER/2022/20061	00	Original.	May 03, 2022	Yami Kuo	*
ER/2022/20061	01	Revise measurement result.	May 24, 2022	Yami Kuo	*
ER/2022/20061	02	Revise measurement result.	May 25, 2022	Yami Kuo	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as identical in hardware and firmware to each other.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Blood Pressure Monitoring System
Brand Name:	URIGHT,MbH,CLEVER
Model No.:	TD-3128B, TD-3128X(X=0~9,D~Z and blank)
Model Difference:	For different product exterior color, logo and market
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	3128220420030678(Conducted) 3128220420030670(Conducted、Radiated)
Power Supply:	1.5Vdc from AA Battery*4 or 5.99Vdc from AC/DC Adapter

1.2 Reference Test Report

Test Lab:	SGS Taiwan Ltd. Central RF Lab.
Report Number:	ER/2022/20060

1.3 Antenna Information:

1.3.1 BLE

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
CHIP	Yageo	CAN4311712002453K	2402 – 2480	5.05

Note: Antenna information is provided by the applicant.

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2 RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

2.1 FCC Standard Applicable:

According to §1.1307(b)(1), systems operating under the provisions of this section 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.

2.1.1 As per KDB 447498 D01 4.3.1,

Step a: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g Head \& Body SAR and } \leq 7.5 \text{ for 10-g extremity Hand SAR, where}$$

- $f(\text{GHz})$ 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
- The values 3.0 and 7.5 are referred to as numeric thresholds in **step b)** below

Step b: For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

- 1) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\}$ mW, for 100 MHz to 1500 MHz
- 2) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$ mW, for > 1500 MHz and ≤ 6 GHz

Step c: For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 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 $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 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

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2.2 Measurement Result:

Step a:

This is a portable device and the max. output power including tune-up tolerance is 0.059 (mW), lower than the threshold given and derived as formula given above, where

$$=0.059(\text{mW})/5(\text{mm})\cdot\sqrt{2.402(\text{GHz})} = 0.018 < 3.0$$

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	≤ 3.0 for 1-g SAR
2402	-12.27	0.059	5	0.018	TRUE

As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

~ End of Report ~

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