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RF Exposure Evaluation Report

Product : Sleep Tracker

Trade mark : N/A

Model/Type reference : P103T, P10XT(X can be any Of

1-9 and A-Z)

Serial Number : N/A

Report Number : EED32P80442302

FCC ID : 2ADIOP103T Date of Issue : Apr. 17, 2023

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

447498 D04 Interim General RF

Exposure Guidance v01

Test result : PASS

Prepared for:

Shenzhen Medica Technology Development Co., Ltd Floor 12, Block A, Building 7, Vanke Yun city, XingKe one street, NanShan District, Shenzhen City.

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Apr. 17, 2023

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4.1 Client Information

Applicant: Shenzhen Medica Technology Development Co., Ltd				
Address of Applicant:	Floor 12, Block A, Building 7, Vanke Yun city, XingKe one street, NanShan District, Shenzhen City.			
Manufacturer:	Shenzhen Medica Technology Development Co., Ltd			
Address of Manufacturer: Floor 12, Block A, Building 7, Vanke Yun city, XingKe one street, NanShan District, Shenzhen City.				
Factory:	Shenzhen Medica Technology Development Co., Ltd			
Address of Factory:	Floor 12, Block A, Building 7, Vanke Yun city, XingKe one street, NanShan District, Shenzhen City.			

4.2 General Description of EUT

Product Name:	Sleep Tracker
Model No.(EUT):	P103T, P10XT(X can be any Of 1-9 and A-Z)
Test Model No.:	P103T
Trade Mark:	N/A

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK	(3)
Test Power Grade:	Default	(1)
Test Software of EUT:	SYDTEK Studio Release	
Antenna Type:	Chip Antenna	
Antenna Gain:	5.05dBi	
Power Supply:	Battery DC 3.7V	
Sample Received Date:	Mar. 31, 2023	
Sample tested Date:	Mar. 31, 2023 to Apr. 10, 2023	

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.

Model No.: P103T, P10XT(X can be any Of 1-9 and A-Z)

Only the model P103T is tested. The electrical circuit design, layout, components used and internal wiring are identical, only model name, appearance and color are different.

















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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.





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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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 Pth (mW).

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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). Pth is given by Formula

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\text{cm}}\sqrt{f}}\right)$$

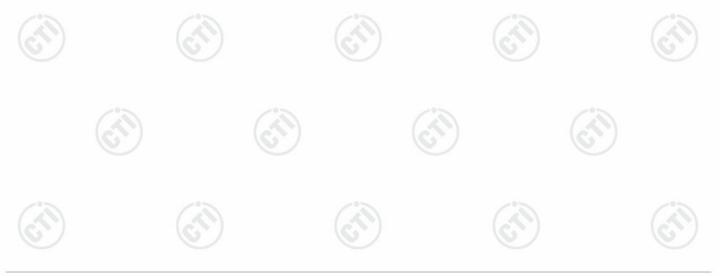
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(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.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.









5.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BLE

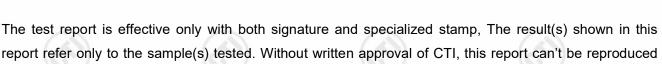
Frequency	Max.	Antenna	EIRP	ERP	ERP	Limit	Result
(MHz)	Conducted	Gain (dBi)	(dBm)	(dBm)	(mW)	(mW)	
	Output						
- °	power	~ ~		/°>			
(45.0)	(dBm)	(20)		(17)			
2480	-1.65	5.05	3.40	1.25	1.334	2.717	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15
- ③Only the worst case data was recorded in the report.







*** End of Report ***













except in full.

