



REPORT No. : SZ17110087S02

RF EXPOSURE EVALUATION REPORT

APPLICANT : Striiv Inc.
PRODUCT NAME : Swappable Wristband
MODEL NAME : TOCHGM0010
BRAND NAME : N/A
FCC ID : ZXO-TOCHGM0010
STANDARD(S) : 47CFR 2.1093
KDB 447498 D01 General RF Exposure Guidance v06
ISSUE DATE : 2017-12-04

Tested by: Peng Fuwei
Peng Fuwei (Test engineer)

Approved by: Peng Huarui
Peng Huarui (Supervisor)

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MORLAB

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Change History		
Issue	Date	Reason for change
1.0	2017-12-04	First edition



1. Technical Information

Note: Provide by manufacturer.

1.1. Applicant and Manufacturer Information

Applicant:	Striiv Inc.
Applicant Address:	570 El Camino Real #200,Suite 220,Redwood City,California United States 94063
Manufacturer:	Striiv Inc.
Manufacturer Address:	570 El Camino Real #200,Suite 220,Redwood City,California United States 94063

1.2. Equipment Under Test (EUT) Description

EUT Type:	Swappable Wristband
Hardware Version:	V1.21
Software Version:	V2.5
Frequency Bands:	Bluetooth 4.0:2402-2480MHz;
Modulation Mode:	Bluetooth 4.0: GFSK;
Antenna type:	Integrity Antenna

1.3. Photographs of the EUT

1. EUT front view



2. EUT rear view





1.3.1. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	V1.21	V2.5

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: portable devices
2	KDB 447498 D01v06	General RF Exposure Guidance



2. Device Category And RF Exposure Limit

Per user manual, this device is a Bluetooth Watch. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.

3. Measurement Of conducted Peak Output Power

1. Bluetooth Average output power

Band	Channel	Frequency (MHz)	Output Power(dBm)
			GFSK
BLE	0	2402	-1.47
	19	2440	-1.70
	39	2480	-1.88

4. RF Exposure Evaluation

The device only incorporates a Bluetooth transmitter, so standalone SAR evaluation is required for Bluetooth and simultaneous SAR is not required.

Standalone transmission SAR evaluation

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$

The maximum tune-up limit power is **0.71mW @ 2.402GHz**

When Bluetooth Watch is used on the hand, so use **5mm** as the most conservative minimum test separation distance,

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 0.22 \leq 3.0$

So SAR evaluation is not required for this device.



Annex A General Information

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
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