

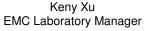


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## **SAR Evaluation Report**

Application No.:	SZEM1901010273CR
Applicant:	Foundation Fitness, LLC
Address of Applicant:	606 SE 9th Ave, Portland, OR 97214, United States
Manufacturer:	Foundation Fitness, LLC
Address of Manufacturer:	606 SE 9th Ave, Portland, OR 97214, United States
Factory:	iDT Technology Limited
Address of Factory:	Chentian Industrial Estate Xixiang, BaoAn, Shenzhen, PRC
Equipment Under Test (EUT	):
EUT Name:	Wireless GPS Cycling Computer
Model No.:	SDM1
Trade mark:	StagesDash®
FCC ID:	ZBM-SDM1
Standards:	47 CFR Part 1.1307
	47 CFR Part 2.1093
	KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2019-01-11
Date of Test:	2019-01-15 to 2019-01-31
Date of Issue:	2019-02-14
Test Result :	Pass*

\* In the configuration tested, the EUT complied with the standards specified above.





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## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-02-14		Original

Authorized for issue by:		
	lerten	
	Leo Lai /Project Engineer	
	Evic Fu	
	Eric Fu /Reviewer	



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## **3** General Information

### 3.1 General Description of EUT

DC 3.7V from internal rechargeable battery or DC 5V from USB port	
Cable: USB cable: 100cm shielded with ferrite core at both ends	
2402MHz to 2480MHz	
V4.2 LE	
40	
2MHz	
GFSK	
3dBi	
IFA	
2457MHz	
GFSK	
IFA	
3dBi	
ANT+ can't simultaneous with BLE	

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### 3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 No tests were sub-contracted.

### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### • VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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### 3.4 Deviation from Standards

None.

## 3.5 Abnormalities from Standard Conditions

None.

### 3.6 Other Information Requested by the Customer

None.

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## 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

#### 4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

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

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  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.



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#### 4.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is	-2.93 dBm on the lowest channel	2.402	GHz (*)
-2.93 dBm logarithmic terms convert to numeric	result is nearly 0.51 mW		
According to the formula. calculate the test exclu	usion thresholds:		
(Max. Power of channel, includ	ing tune – up tolerance, mW) * $\sqrt{f(GHz)}$		
	aration distance,mm)		
General RF Exposure = (0.51 mW / 5 mm) x $\sqrt{2.402}$	<i>GHz</i> = 0.16	(1)	
SAR requirement:			
<i>S</i> = 3.0		(2)	
(1) < (2)			
So the SAR report is not required.			
(*) Max. power refer to Report No.:SZEM1901010	027302		

- End of the Report -

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