



Report No.: SZEM190401329102

Page: 1 of 7

## **SAR Evaluation Report**

Application No.: SZEM1904013291CR

Applicant: Shenzhen DO Intelligent Technology Co., Ltd

Address of Applicant: 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua

District, Shenzhen, China

Manufacturer: Shenzhen DO Intelligent Technology Co., Ltd

Address of Manufacturer: 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua

District, Shenzhen, China

Factory: Shenzhen DO Intelligent Technology Co., Ltd

Address of Factory: 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua

District, Shenzhen, China

**Equipment Under Test (EUT):** 

**EUT Name:** Smart Bracelet

Model No.: ID152

FCC ID: 2AHFT302

Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2019-04-28

**Date of Test:** 2019-04-28 to 2019-05-22

**Date of Issue:** 2019-05-24

Test Result : PASS\*

Keny Xu EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM190401329102

Page: 2 of 7

## Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2019-05-24		Original		

Authorized for issue by:		
	Hay Un	
	Harry Wu /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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Report No.: SZEM190401329102

Page: 3 of 7

### **Contents**

			Page
1	COV	'ER PAGE	1
2	VER	SION	2
3	CON	ITENTS	3
4	GEN	IERAL INFORMATION	4
	4.1	GENERAL DESCRIPTION OF EUT	
	4.2	TEST LOCATION	5
	4.3	TEST FACILITY	
	4.4	DEVIATION FROM STANDARDS	
	4.5	ABNORMALITIES FROM STANDARD CONDITIONS	
	4.6	OTHER INFORMATION REQUESTED BY THE CUSTOMER	6
5	SAR	EVALUATION	
	5.1	RF EXPOSURE COMPLIANCE REQUIREMENT	
	5.1.1	- ta: .aa. a : .e qa e e	
	5.1.2		
	5.1.3	B EUT RF Exposure	



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Report No.: SZEM190401329102

Page: 4 of 7

## 4 General Information

## 4.1 General Description of EUT

Power supply:	DC 3.7V by rechargeable battery which charged from USB port	
Operation Frequency:	2402MHz to 2480MHz	
Bluetooth Version:	V4.2	
Modulation Type:	GFSK	
Number of Channels:	40	
Channel Spacing:	2MHz	
Antenna Gain:	-2.56dBi	
Antenna Type:	FPC	



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Report No.: SZEM190401329102

Page: 5 of 7

#### 4.2 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.

### 4.3 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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Page: 6 of 7

#### 4.4 Deviation from Standards

None.

#### 4.5 Abnormalities from Standard Conditions

None

## 4.6 Other Information Requested by the Customer

None.



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Report No.: SZEM190401329102

Page: 7 of 7

### 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 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.

#### 5.1.2 Limits

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:

[(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

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is	0.64	dBm on the middle channel	2.44	GHz (*)
0.64 dBm logarithmic terms convert to numeric	nearly 1.16 mW			
According to the formula. calculate the test excl	usion th	resholds:		
[(max.power of channel, including tune-up to [\f(GHz)]	lerance,	mW)/(min. test separation d	istance,	mm)]·
General RF Exposure = (1.16 mW / 5 mm) $x \sqrt{2.44}$ GHz = 0.36			(1)	
SAR requirement:				
S = 3.0			(2)	
(1) < (2)				
So the SAR report is not required.				
(*) Max. power refer to Report No.:SZEM190401	329101			

- End of the Report -



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