SGS-CSTC Standards Technical Services
(Shanghai) Co., Ltd.

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1 Cover Page

RF Exposure REPORT

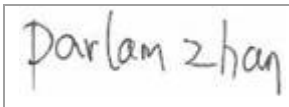
Application No.:	SHEM1602000602CR
Applicant:	HANGZHOU CHIC INTELLIGENT TECHNOLOGY CO., LTD
FCC ID:	2AHNZCHIC1
Equipment Under Test (EUT): **NOTE:** The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	Balancing scooter
Model No.(EUT):	SMART-K1
Add Model No.:	SMART-K2
Standards:	FCC PART 15 Subpart C: 2015
Date of Receipt:	2016-02-26
Date of Test:	2016-04-07 to 2016-04-11
Date of Issue:	2016-06-15
Test Result:	**Pass***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Parlam Zhan
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

2 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
00	/	2016-06-15	/	Original

Authorized for issue by:				
Engineer		Eddy Zong **Print Name**		
Clerk		Vincent Zhu **Print Name**		
Reviewer		Parlam Zhan **Print Name**		

3 Contents

4 General Information

4.1 Client Information

Applicant:	HANGZHOU CHIC INTELLIGENT TECHNOLOGY CO., LTD
Address of Applicant:	LIANGZHU UNIVERSITY SCIENCE AND TECHNOLOGY PARK, JINGYI ROAD, QIXIANQIAO LIANGZHU, HANGZHOU, CHINA, 311112
Manufacturer:	LIANGZHU UNIVERSITY SCIENCE AND TECHNOLOGY PARK, JINGYI ROAD, QIXIANQIAO LIANGZHU, HANGZHOU, CHINA, 311112
Address of Manufacturer:	1877 Centro West, Tiburon, CA 94920 US
Factory:	HANGZHOU CHIC INTELLIGENT TECHNOLOGY CO., LTD
Address of Factory:	LIANGZHU UNIVERSITY SCIENCE AND TECHNOLOGY PARK, JINGYI ROAD, QIXIANQIAO LIANGZHU, HANGZHOU, CHINA, 311112

4.2 General Description of E.U.T.

Product Description:	Mobile product with BT function for scooter
Brand Name:	IO CHIC
Rechargeable Batteries:	DC 36V, 2.2Ah Li-on Rechargeable Battery for scooter
Charging Voltage:	100~240V AC, 50/60Hz Max. 1.6A

4.3 Technical Specifications

Operation Frequency:	BT: 2402MHz-2480MHz
Bluetooth Version:	2.1+EDR BT 4.0 Single mode
Modulation Technique:	FHSS(GFSK, π/4DQPSK) GFSK
Number of Channel:	BT2.1+EDR: 79 BT4.0:40
Antenna Type	PIFA
Antenna Gain	BT2.1+EDR: 4dBi BT4.0: 0dBi

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

4.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 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. Date of expiry: 2017-07-14.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2017-09-16.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2017-06-18.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively. Date of Expiry: 2017-11-16.

5 Test Standards and Limits

5.1 FCC Radiofrequency radiation exposure 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)/(min test separation distance)]*[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 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
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 according to 4.1 f) is applied to determine SAR test exclusion.

For 2.4G band device, the limit of worse case is $P_{max} \leq 7.5 * D_{min} / \sqrt{f} = 3.0 * 5 / \sqrt{2.480} = 9.524$mW

6 Measurement and Calculation

6.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM160200060202 & SHEM160200060203.

Test Data:

For BT 4.0 Classic mode

Test mode	Channel	Peak Power (dBm)	Peak Power (mW)
GFSK	2402	0.68	1.17
	2441	0.58	1.14
	2480	0.52	1.13
π/4DQPSK	2402	1.69	1.48
	2441	1.56	1.43
	2480	1.52	1.42

For BT 4.0 BLE mode

Test mode	Channel	Peak Power (dBm)	Peak Power (mW)
GFSK	2402	-1.43	0.72
	2440	-1.57	0.70
	2480	-1.67	0.68

6.2 RF Exposure Calculation

The BT and the DTS modules can simultaneous transmitting at frequency 2.4GHz band. The Max Conducted Peak Output Power is 1.48+0.72=2.2mW < 9.524mW. According to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

7 EUT Constructional Details

Refer to the < SMART-K1_External Photos > & < SMART-K1_Internal Photos >.

--End of the Report--