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

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1 Cover Page

FCC MPE REPORT

Application No.:	SHEM1407001846RF
Applicant:	iHealth Lab Inc.
FCC ID:	SLRHS4S
IC:	10913A-HS4S
Equipment Under Test (EUT): **NOTE:** The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	Wireless Scale Lite
Model No.(EUT):	HS4S
Standards:	FCC Rules 47 CFR §2.1091 KDB447498 D01 General RF Exposure Guidance
Date of Receipt:	July 23, 2014
Date of Test:	August 22, 2014 to August 26, 2014
Date of Issue:	September 18, 2014
Test Result:	**Pass***

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

Tony Wu
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

2 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
00	/	September 18, 2014	/	Original

Authorized for issue by:				
Engineer		Eddy Zong **Print Name**		
Clerk		Susie Liu **Print Name**		
Reviewer		Keny Xu **Print Name**		

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4 General Information

4.1 Client Information

Applicant:	iHealth Lab Inc.
Address of Applicant:	719 N.Shoreline Blvd, Mountain View, CA94043 USA
Manufacturer:	Andon Health Co. Ltd
Address of Manufacturer:	No.3 JinPing Street YaAn Road Nankai District Tianjin, China
Factory:	Andon Health Co. Ltd
Address of Factory:	No.3 JinPing Street YaAn Road Nankai District Tianjin, China

4.2 General Description of E.U.T.

Product Description:	Mobile product
Brand Name:	iHealth
Power Supply:	DC 6V by 4* “AAA” Battery Remark: Supply the EUT with fully charged battery during the testing.

4.3 Details of E.U.T.

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	3.0+HS
	BT 4.0
Modulation Technique:	BT: GFSK, π/4DQPSK, 8DPSK
	BT 4.0: GFSK
Number of Channel:	BT: 79
	BT 4.0: 40
Antenna Type:	Integral
Antenna Gain:	2.45 dBi

4.4 Test Location

All tests were performed at SGS E&E EMC lab

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

No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

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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: 2015-02-22.

- **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 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

5 Test Standards and Limits

According to§1.1310 Radiofrequency radiation exposure limits:

The limit for general population/uncontrolled exposures

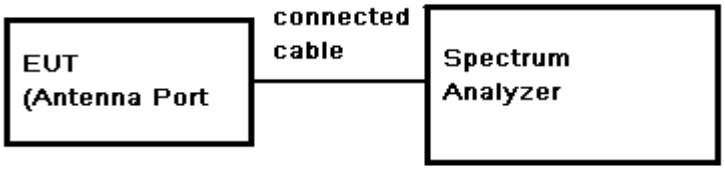
Frequency	Power density(mW/cm^2)	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30

6 Measurement and Calculation

6.1 Maximum transmit power

EUT Operation: Test in fixing frequency operating mode at lowest, middle and highest frequency.

Test Configuration:



Test Data:

For BT 3.0:

Test mode	Channel	Reading Power (dBm)	Cable Loss (dB)	Output Power (dBm)	Output Peak Power (mW)	Peak Power Limit (dBm)	Result
GFSK	Low	0.32	0.5	0.82	1.21	30	PASS
	Mid	0.16	0.5	0.66	1.16	30	PASS
	High	-0.46	0.5	0.04	1.01	30	PASS
π/4DQPSK	Low	0.24	0.5	0.74	1.19	30	PASS
	Mid	0.04	0.5	0.54	1.13	30	PASS
	High	-0.58	0.5	-0.08	0.98	30	PASS
8DPSK	**Low**	**0.49**	**0.5**	**0.99**	**1.26**	30	PASS
	Mid	0.46	0.5	0.96	1.25	30	PASS
	High	-0.36	0.5	0.14	1.03	30	PASS

For BT 4.0:

Test mode	Channel	Reading Power (dBm)	Cable Loss (dB)	Output Power (dBm)	Output Peak Power (mW)	Peak Power Limit (dBm)	Result
GFSK	Low	**-2.98**	**0.5**	**-2.48**	**0.56**	30	PASS
	Mid	-3.35	0.5	-2.85	0.52	30	PASS
	High	-3.65	0.5	-3.15	0.48	30	PASS

6.2 MPE Calculation

According to the formula S= $\frac{PG}{4R^2\pi}$, we can calculate S which is MPE.

Note:

1) P (Watts) =Power Input to antenna = $10^{\frac{dBm}{10}}$ / 1000

2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)

3) R = distance to the center of radiation of antenna (in meter) = 20cm

4) MPE limit = 1mW/cm²

For BT 3.0:

The Max Conducted Peak Output Power is 1.26mW in low channel of 8DPSK;

The best case gain of the antenna is 2.45dBi. 2.45dB logarithmic terms convert to numeric result is nearly 1.758

So, S= $\frac{PG}{4R^2\pi} = \frac{1.26 \times 1.758}{4 \times 400 \times 3.14}$ =0.00044 mW/cm^2

For BT 4.0:

The Max Conducted Peak Output Power is 0.56mW in low channel of GFSK;

The best case gain of the antenna is 2.45dBi. 2.45dB logarithmic terms convert to numeric result is nearly 1.758

So, S= $\frac{PG}{4R^2\pi} = \frac{0.56 \times 1.758}{4 \times 400 \times 3.14}$ =0.00018 mW/cm^2

The BT and the DTS modules cann't simultaneous transmitting at frequency 2.4GHz band, according to the KDB447498 D01 section 7.2 determine the device is exclusion from SAR test.

7 EUT Constructional Details

Refer to the < HS4S _External Photos > & < HS4S _Internal Photos>.

--End of the Report--