



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

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Report No.: SHEM160200057602  
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## 1 Cover Page

# FCC MPE REPORT

Application No.:	SHEM1602000576CR
Applicant:	BlueSmart Technology Corporation
FCC ID:	2AHNX-F14A
<b>Equipment Under Test (EUT):</b> <b>NOTE:</b> The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	BlueSmart mia smart feeding system
Model No.(EUT):	F0101
Standards:	FCC Rules 47 CFR §2.1091 KDB447498 D01 General RF Exposure Guidance
Date of Receipt:	2016-02-25
Date of Test:	2016-03-16 to 2016-03-17
Date of Issue:	2016-04-21
Test Result:	<b>Pass*</b>

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

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



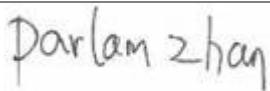
The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	2016-04-21	/	Original

Authorized for issue by:			
Engineer		Eddy Zong _____ <b>Print Name</b>	 _____
Clerk		Susie Liu _____ <b>Print Name</b>	 _____
Reviewer		Parlam Zhan _____ <b>Print Name</b>	 _____

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## 4 General Information

### 4.1 Client Information

Applicant:	BlueSmart Technology Corporation
Address of Applicant:	1451 Grant Road, Suite 200, Mountain View, CA, USA 94042
Manufacturer:	JABIL GREEN POINT
Address of Manufacturer:	266, SEC 1, Shen-Lin Road, Ta-Ya 428, Taichung, Taiwan
Factory:	JABIL GREEN POINT
Address of Factory:	266, SEC 1, Shen-Lin Road, Ta-Ya 428, Taichung, Taiwan

### 4.1 General Description of E.U.T.

Product Description:	Fixed product with 2.4G WiFi function
Brand Name:	BlueSmartMia
Rated Input:	DC 5V by Wireless Charger
Rechargeable Batteries:	DC 3.7V Li-ion Rechargeable Battery, 1.67Wh Supply the EUT with fully charged battery during the testing.

### 4.2 Technical Specifications

Operation Frequency:	2412MHz-2462MHz
Modulation Type:	802.11 b DSSS(CCK, DQPSK, DBPSK) 802.11 g/n(HT20) OFDM(64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	11
Data Rate:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n(HT20): 72Mbps
Antenna Type	Integral Chip Antenna
Antenna Gain	3.0dBi

### 4.3 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

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### 4.4 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

According to §1.1310 Radiofrequency radiation exposure limits:

The limit for general population/uncontrolled exposures

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

## 6 Measurement and Calculation

### 6.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM160200057601.

Test mode	Test Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11b	<b>2412</b>	<b>21.04</b>	<b>127.06</b>
	2437	20.69	117.22
	2462	20.61	115.08
802.11g	2412	20.94	124.17
	2437	20.44	110.66
	2462	20.39	109.40
802.11 n(HT20)	2412	18.37	68.71
	2437	18.18	65.77
	2462	18.24	66.68

## 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/cm<sup>2</sup>

The Max Conducted Peak Output Power is 127.06mW in lowest channel;

The best case gain of the antenna is 3dBi. 3dB logarithmic terms convert to numeric result is nearly 1.995.

$$S = \frac{PG}{4R^2\pi} = \frac{127.06 \times 1.995}{4 \times 400 \times 3.14} = 0.05\text{ mW/cm}^2$$

So the device is exclusion from SAR test.

## 7 EUT Constructional Details

Refer to the < F0101\_External Photos > & < F0101\_Internal Photos >.

**--End of the Report--**