



**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  
Email: ee.shenzhen@sgs.com

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# Human Exposure Report

**Application No.:** SZEM1709009383CR(GZEM1708005147CR)  
**Applicant:** birde Pty Ltd  
**Address of Applicant:** PO BOX 265 St Leonards 1590 Australia  
**Manufacturer:** birde Pty Ltd  
**Address of Manufacturer:** PO BOX 265 St Leonards 1590 Australia  
**Factory:** Foshan Sun Cupid Electronics FTY Ltd.  
**Address of Factory:** Block 7, No. 127, Zhangcha 1st Rd, Changcheng District, Foshan City, Guangdong, China.

**Equipment Under Test (EUT):**  
**EUT Name:** Wireless charge base  
**Model No.:** BB800  
**FCC ID:** 2ANOV-BC02  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
**Date of Receipt:** 2017-09-05  
**Date of Test:** 2017-09-14 to 2017-09-22  
**Date of Issue:** 2017-09-29

<b>Test Result :</b>	<b>Pass*</b>
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\* This report is just a test result base on the test method and limit requirement shown in the form on the second page. 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.

Vincent Chen  
Project Engineer

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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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### **3 General Information**

#### **3.1 Details of E.U.T.**

Power Supply:	Input: DC 5V, 2A from USB port Output: DC 5V, 1A
Operation Frequency:	110kHz-205kHz
Antenna Type:	Loop antenna
Modulation type:	Load modulation



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**3.2 Description of Support Units**

Description	Manufacturer	Model No.	Serial No.
Adapter	Foshan Sun Cupid Electronics FTY Ltd.	IN-CA-09	NA
Speaker	Foshan Sun Cupid Electronics FTY Ltd.	BC800	NA
USB cable	Foshan Sun Cupid Electronics FTY Ltd.	NA	NA
NFC card	Foshan Sun Cupid Electronics FTY Ltd.	NA	NA

**3.3 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.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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### 3.4 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 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 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.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

### 3.5 Deviation from Standards

None.

### 3.6 Abnormalities from Standard Conditions

None.



#### **4 Equipments Used during Test**

<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal.Due date (yyyy-mm-dd)</b>
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2017-06-10
2	Electric Filed Meter	Schaffner	EMC20	EMC068	2018-03-27



## 5 Test Results

### 5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310  
Measurement Distance: 10cm  
Test operating Frequency: 170KHz  
Test voltage: AC 120V/60Hz (Voltage of the AC/DC adapter)  
Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

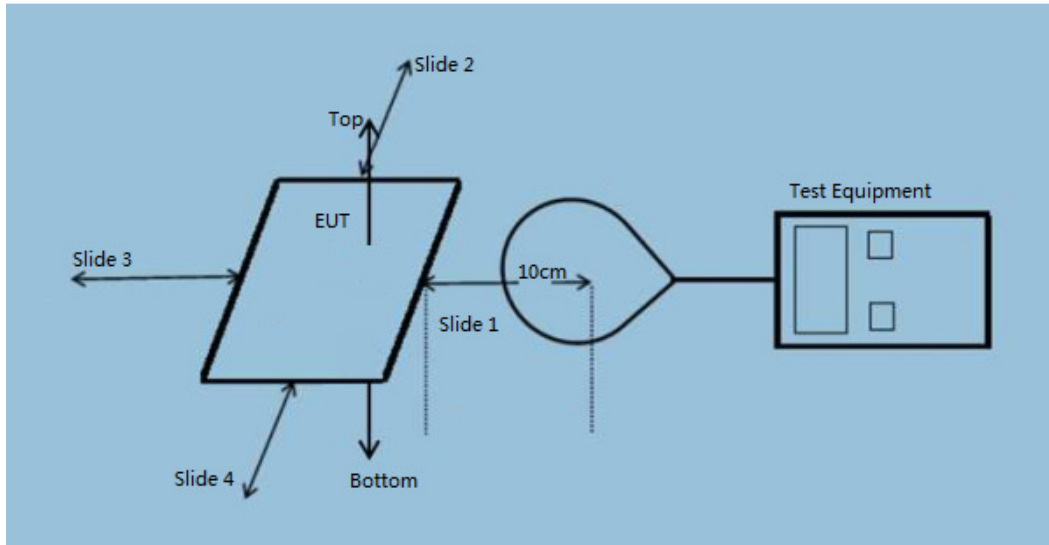
#### 5.1.1 E.U.T. Operation

##### Operating Environment:

Temperature: 24.0 °C      Humidity: 52 % RH      Atmospheric Pressure: 1015 mbar

##### EUT Operation and Test Block:

This device has been tested the worst status of full load and the device has been tested with the speaker at zero charge, intermediate charge, and full charge.







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**5.1.2 Measurement Data**

**1:Output Voltage=DC 5V;**

**Electric Field Emissions**

Test Position	Test Distance (cm)	Probe Measure Result (V/m)	Limit (V/m)	30% Limit (V/m)
Side 1	10	0.69	614	184.2
Side 2	10	0.69	614	184.2
Side 3	10	1.28	614	184.2
Side 4	10	1.31	614	184.2
Top	10	4.16	614	184.2
Bottom	10	0.24	614	184.2

**Magnetic Field Emissions**

Test Position	Test Distance (cm)	Probe Measure Result (A/m)	Limit (A/m)	30% Limit (A/m)
Side 1	10	0.003	1.63	0.489
Side 2	10	0.005	1.63	0.489
Side 3	10	0.004	1.63	0.489
Side 4	10	0.007	1.63	0.489
Top	10	0.033	1.63	0.489
Bottom	10	0.001	1.63	0.489

Note: All modes have been tested and we only record the worst test result in full load mode.



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## **6 Photographs**

### **6.1 Test setup photos**

Refer to Test Setup of RF Exposure

### **6.2 EUT photos**

Refer to EUT external and internal photos.