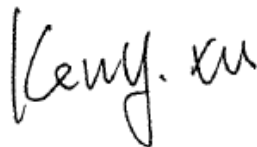


# Human Exposure Report

**Application No.:** SZCR2311003692HS  
**Applicant:** Shenzhen Betsen Industrial Co., Ltd  
**Address of Applicant:** Rm 503, Block B, Lanshang Chuangye Park, No.7 Xinfeng Rd, Ailian Community, Longcheng Sub-district, Longgang, Shenzhen, Guangdong, China  
**Manufacturer:** Shenzhen Betsen Industrial Co., Ltd  
**Address of Manufacturer:** Rm 503, Block B, Lanshang Chuangye Park, No.7 Xinfeng Rd, Ailian Community, Longcheng Sub-district, Longgang, Shenzhen, Guangdong, China  
**Factory:** Shenzhen Betsen Industrial Co., Ltd  
**Address of Factory:** Rm 503, Block B, Lanshang Chuangye Park, No.7 Xinfeng Rd, Ailian Community, Longcheng Sub-district, Longgang, Shenzhen, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Wireless Charger  
**Model No.:** Purifier Charger  
**FCC ID:** 2BD74D-812  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
47 CFR PART 2, Subpart J, Section 2.1091  
**Date of Receipt:** 2023-11-16  
**Date of Test:** 2023-11-20 to 2023-12-05  
**Date of Issue:** 2023-12-07

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above



Keny Xu  
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-12-07		Original

<b>Authorized for issue by:</b>			
		<i>Vincent Chen</i>	
		<b>Vincent Chen/Project Engineer</b>	
		<i>Eric Fu</i>	
		<b>Eric Fu/Reviewer</b>	



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### 3 General Information

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

Power Supply:	Input 5Vdc, 2A via type-C port, output 5Vdc, 8W
Cable(s):	USB Cable: 1m, unshielded
Operation frequency:	142.2kHz to 149.0kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

#### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Vegetable cleaning machine	Betsen	D-812	---
Adapter	Apple	A1357	REF. No.SEA05A01A



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### 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, Nanshan District, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

### 3.4 Test Facility

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

#### • 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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • 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.

### 3.5 Deviation from Standards

None.

### 3.6 Abnormalities from Standard Conditions

None.



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## 4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-04-01
2	MAGPy-8H3D+E3D	SPEAG	MAGPy	SEM060-31	2024-11-14
3	MAGPy-DAS	SPEAG	MAGPy	SEM060-32	2024-11-14



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## 5 Test Results

### 5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310  
 47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 20cm

Remark: According to KDB publication 680106 section 3, the separation distance shall be measured from the geometric center of the probe head to the edge of the device, so test distance as above.  
 The EUT is considered as a mobile device and is evaluated at a distance of 20 cm

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).

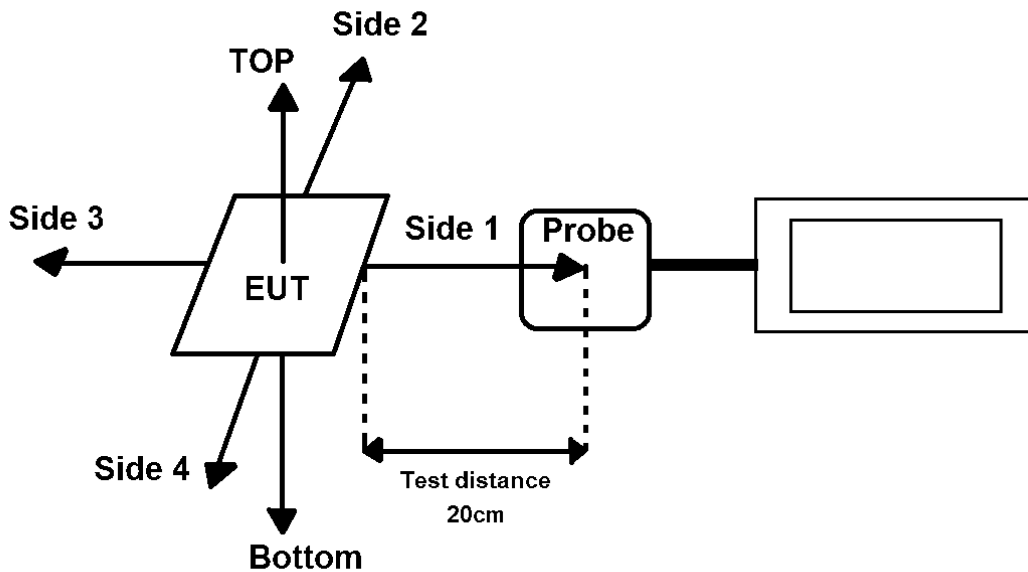


According to IEEE C95.3:2002 section 5.5.1.1, The power density  $S$  at a point on the axis at a distance  $d$  from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

$S$  = power density (mW/cm<sup>2</sup>)  
 $P$  = the net power delivered to the antenna (mW)  
 $G$  = gain of the antenna in linear scale  
 $d$  = distance between observation point and center of the radiator (cm)

### 5.1.1 E.U.T. Operation



### 5.1.2 E.U.T. Operation

#### Operating Environment:

Temperature: 21.6 °C      Humidity: 53.4 % RH      Atmospheric Pressure: 1003 mbar

### 5.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge mode_Keep the EUT charging



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**5.1.4 Measurement Data**

Test mode: 00

Input Voltage=DC 5V; The max output power =8W for each coil.

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
147 kHz which is the worst case within the operation frequency range	20	Side 1	0.053	0.044	0.025	0.815	0.163
		Side 2	0.059	0.050	0.029		
		Side 3	0.044	0.037	0.021		
		Side 4	0.047	0.039	0.023		
		Top	0.047	0.039	0.022		

**Electric Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			zero charge	intermediate charge	full charge		
145 kHz which is the worst case within the operation frequency range	20	Side 1	0.135	0.110	0.093	307	61.4
		Side 2	0.122	0.101	0.085		
		Side 3	0.119	0.099	0.083		
		Side 4	0.120	0.099	0.084		
		Top	0.104	0.088	0.075		



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## 6 Photographs- RF exposure Setup photos

Refer to Appendix\_RF Exposure Setup Photos for SZCR2311003692HS

- End of the Report -

