

### SGS-CSTC Standards Technical Services Co., Ltd.

**Shenzhen Branch** 



Report No.: SZEM190601515102

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### **Human Exposure Report**

Application No.: SZEM1906015151CR

Applicant: ASAP Technology(Jiangxi) Co., Ltd.

Address of Applicant: Ji'an Industrial Park, Ji'an, Jiangxi, 343100, China

Manufacturer: ASAP Technology(Jiangxi) Co., Ltd.

Address of Manufacturer: Ji'an Industrial Park, Ji'an, Jiangxi, 343100, China

Factory: ASAP Technology(Jiangxi) Co., Ltd.

Address of Factory: Ji'an Industrial Park, Ji'an, Jiangxi, 343100, China

**Equipment Under Test (EUT):** 

**EUT Name:** Wireless Charging Pad

Model No.: OBFTC-0026-A Trade Mark: OTTERBOX

FCC ID: 2APXNOBFTC-0026-A

Standards: 47 CFR PART 1, SUBPART I, SECTION 1.1310

**Date of Receipt**: 2019-06-14

**Date of Test**: 2019-06-18 TO 2019-07-02

**Date of Issue:** 2019-07-04

Test Result : Pass\*

Keny Xu EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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### 2 General Information

#### 2.1 Details of E.U.T.

Power supply: AC ADAPTER

Model:LACA070

Input:AC 100V-240V 50/60Hz 0.45A

Output:DC 5V/3A,9V/2A,12V/1.5A

Wireless charging Input: DC 5V 2A/9V 1.67A

Wireless charging:10W Max

Cable: USB cable:195cm unshielded

Operation Frequency: 110.26kHz to 155.45kHz

Modulation Type: Load Modulation
Antenna Type: Loop Antenna

Remark: Tests were conducted in all three load modes and the worst case10W(DC

9V/1.1A) is reported only.

### 2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB
iPhone 8	Apple	A1863	F4GVQ656JC6D



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#### 2.3 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.

### 2.4 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 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. 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: 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.

· 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.



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#### 2.5 Deviation from Standards

None.

### 2.6 Abnormalities from Standard Conditions

None.



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### 3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2020-06-10
2	Electric Field Meter	Schaffner	EMC20	EMC068	2020-03-21



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### 4 Test Results

### 4.1 RF Exposure test

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

Measurement Distance: 15cm

Limit:

Frequency range (MHz) Electric field strength (V/m)		Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposures								
0.3-3.0	614	1.63	*(100)	6				
3.0-30	1842/f	4.89/f	*(900/f²)	6				
30-300	61.4	0.163	1.0	6				
300-1500	/	/	f/300	6				
1500-100,000	/	/	5	6				
	(B) Limits for General Population/Uncontrolled Exposure							
0.3-1.34	614	1.63	*(100)	30				
1.34-30	824/f	2.19/f	*(180/f²)	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

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).

#### 4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 51 % RH Atmospheric Pressure: 1015 mbar

**EUT Operation:** 

This device has been tested with mobile phone at zero charge, intermediate charge, and full charge.



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<sup>\*=</sup>Plane-wave equivalent power density



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#### 4.1.2 Measurement Data

## Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value $8.1\Omega$ Electric Field Emissions

Operation frequency (cm)		Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
		Side 1	1.31	307
	15	Side 2	2.05	307
127 kHz		Side 3	1.06	307
		Side 4	2.18	307
		Тор	0.92	307

### **Magnetic Field Emissions**

Operation frequency	•		Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.0881	0.815
	15	Side 2	0.1665	0.815
127 kHz		Side 3	0.0976	0.815
		Side 4	0.1589	0.815
		Тор	0.0405	0.815



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### Mobile phone has been charge at zero charge, intermediate charge, and full charge.

#### **Electric Field Emissions**

Operation	Test	Test	Probe Measure Result(V/m)			50%Limit
frequency	Distance (cm)	istance Position	zero charge	intermediate charge	full charge	(V/m)
		Side 1	1.62	1.31	1.09	307
		Side 2	2.31	2.14	1.89	307
127 kHz	15	Side 3	1.33	1.02	0.82	307
		Side 4	2.47	2.26	2.07	307
		Тор	1.19	1.01	0.77	307

#### **Magnetic Field Emissions**

Operation	Test	Test	Probe	Probe Measure Result(A/m)		
frequency Distance (cm)		Position zer	zero charge	intermediate charge	full charge	50%Limit (A/m)
		Side 1	0.0979	0.0838	0.0708	0.815
		Side 2	0.1779	0.1656	0.1517	0.815
127 kHz	15	Side 3	0.1106	0.0954	0.0813	0.815
		Side 4	0.1686	0.1544	0.1402	0.815
		Тор	0.0494	0.0389	0.0243	0.815



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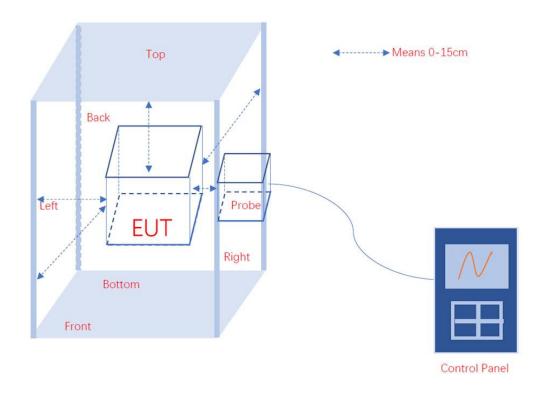
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#### 5 **Photographs- Test photos**



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