



Report No.: SZEM190601471302

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Human Exposure Report

Application No.: SZEM1906014713CR
Applicant: Superior communications.
Address of Applicant: 5027 Irwindale Ave. Suite, Irwindale Ave, California, 91706 United States
Manufacturer: SHENZHEN POWERQI TECHNOLOGY CO., LTD
Address of Manufacturer: Floor2, 3, Building A4, Fangxing Science and Technology Park, NO. 13
 Baonan Road Longgang street, Longgang District
Factory: SHENZHEN POWERQI TECHNOLOGY CO., LTD
Address of Factory: Floor2, 3, Building A4, Fangxing Science and Technology Park, NO. 13
 Baonan Road Longgang street, Longgang District

Equipment Under Test (EUT):
EUT Name: Throne Wireless Charger
Model No.: 06211
FCC ID: YJW-06211
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2019-06-03
Date of Test: 2019-06-06 to 2019-06-13
Date of Issue: 2019-06-20

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above

Keny Xu
EMC Laboratory Manager




SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (EMC) EMC Laboratory

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
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Authorized for issue by:			
			
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		Harry Wu /Project Engineer	
			
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		Eric Fu /Reviewer	



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2 General Information

2.1 Details of E.U.T.

Power supply:	Input: DC 5V, 2A, DC 9V, 1.67A Output: 5W/7.5W/10W AC/DC Adapter Model: QC01 Input: AC 110-240V, 50/60Hz, 0.6A Output: DC 3.6-V,3A, DC 6.2-9V,2A, DC 9.2-12V,1.5A
Cable:	USB Cable: 40cm, Unshielded
Operation Frequency:	110.737-149.519MHz
Modulation Type:	Load Modulation
Antenna Type:	Loop Antenna
Antenna Gain:	0dBi.
Remark:	Tests were conducted in all three load modes and the worst case (DC 9V, 1.67A) is reported only.

2.2 Description of Support Units

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



2.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

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.

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.



3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Shielding Room	SAEMC	MSR733	SEM001-09	2020-06-10
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-03-21



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/cm ²)	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/f ²)	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/f ²)	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).

4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

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



4.1.2 Measurement Data

All three load modes were conducted and the worst case(10W) is reported only.

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

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
136 kHz	15	Side 1	2.43	2.15	1.94	307
		Side 2	3.19	2.91	2.67	307
		Side 3	2.15	1.94	1.73	307
		Side 4	4.85	4.65	4.47	307
		Top	3.89	3.58	3.36	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
136 kHz	15	Side 1	0.1213	0.1093	0.0949	0.815
		Side 2	0.1374	0.1248	0.1123	0.815
		Side 3	0.0578	0.0425	0.0359	0.815
		Side 4	0.2328	0.2218	0.2072	0.815
		Top	0.1541	0.1413	0.1289	0.815





5 Photographs- RF exposure Setup photos

Refer to RF Exposure Setup Photos.

- End of the Report -

