



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

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800259902

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Human Exposure Report

Application No.: SZCR2308002599AT
Applicant: Shenzhen Powerqi Technology Co., Ltd.
Address of Applicant: Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and Technology Park, No. 13 of Baonan Road, Longgang District, Shenzhen, 518116 China
Manufacturer: Shenzhen Powerqi Technology Co., Ltd.
Address of Manufacturer: Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and Technology Park, No. 13 of Baonan Road, Longgang District, Shenzhen, 518116 China
Factory: Shenzhen Powerqi Technology Co., Ltd.
Address of Factory: Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and Technology Park, No. 13 of Baonan Road, Longgang District, Shenzhen, 518116 China

Equipment Under Test (EUT):

EUT Name: Surface Wireless Charger
Model No.: AIR1510, AIR15**** (* = any alphanumeric/special character(s) or blank) ♣
 ♣ Please refer to section 2 of this report which indicates which model was actual tested and which were electrically identical.

Trade Mark: Aircharge
FCC ID: 2AFP2AIR1510
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2023-08-11
Date of Test: 2023-11-01 to 2023-11-03
Date of Issue: 2023-11-06

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

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-11-06		Original

Authorized for issue by:			
		Leo Li/Project Engineer	
		Eric Fu/Reviewer	



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2 General Information

2.1 Details of E.U.T.

Power supply:	INPUT: DC 5V/3A, DC 9V/2.22A, DC 12V/1.67A OUTPUT: 5W, 7.5W, 10W, 15W
Cable(s):	USB cable:150cm unshielded
Operation frequency:	111.2kHz to 147.2kHz
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.

Declaration of EUT Family Grouping:

Model No.: AIR1510, AIR15****(* = any alphanumeric/special character(s) or blank)

Only the model AIR1510 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on the shape and color of the shell.

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	XIAOMI	MDY-08	REF. No.SEA05M02F
E-loading	N/A	N/A	REF. No.SEA42A00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00



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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, Nanshan District, 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:

• **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.

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	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-04-01
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2024-03-31

4 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)



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

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).



5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.8 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar

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

5.1.2 Measurement Data

Test mode: 03

The max output power =15W.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
			124.38 kHz which is the worst case within the operation frequency range	20	Side 1		
Side 2	0.073	0.058	0.051				
Side 3	0.060	0.051	0.044				
Side 4	0.062	0.052	0.042				
Top	0.067	0.056	0.048				

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		
			132.56 kHz which is the worst case within the operation frequency range	20	Side 1		
Side 2	0.062	0.053	0.040				
Side 3	0.056	0.047	0.038				
Side 4	0.054	0.045	0.036				
Top	0.061	0.052	0.041				



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Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			unload	Half load	full load		
124.38 kHz which is the worst case within the operation frequency range	20	Side 1	0.72	0.63	0.52	307	61.4
		Side 2	0.88	0.77	0.63		
		Side 3	0.73	0.61	0.50		
		Side 4	0.62	0.53	0.42		
		Top	0.85	0.72	0.60		

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		
132.56 kHz which is the worst case within the operation frequency range	20	Side 1	0.74	0.61	0.49	307	61.4
		Side 2	0.86	0.72	0.64		
		Side 3	0.74	0.57	0.49		
		Side 4	0.65	0.55	0.46		
		Top	0.83	0.71	0.61		



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6 Test Setup Photos

Refer to Appendix -RF Exposure Test Setup Photo for SZCR2308002599AT

- End of the Report -



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