

RF Exposure Evaluation Report

Application No.: FYCR2210000429AT (SGS SZ NO.: T52210320070EM)
Applicant: SCX DESIGN
Address of Applicant: 44 rue de la Jonquière Paris 75017 France
Manufacturer: SCX DESIGN
Address of Manufacturer: 44 rue de la Jonquière Paris 75017 France
Equipment Under Test (EUT):
EUT Name: WIRELESS POWER BANK.NOTEBOOK 4000 MAH
Model No.: 32507
FCC ID: 2A2OH-O1830L
Standard(s) : 47 CFR PART 2, Subpart J, Section 2.1093
47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2022-10-31
Date of Test: 2022-11-04 to 2023-03-28
Date of Issue: 2023-05-24

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

This report supersedes our previous report FYCR221000042903R1, issued on 2023-05-22, which is hereby deemed null and void.



Winkey Wang
EMC Technical Manager



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-03-30		Original
R1		2023-05-22		Updated
R2		2023-05-24		Updated the standard version

Authorized for issue by:			
			
		<hr/>	
		Tree Zhan/Project Engineer	
			
		<hr/>	
		Winkey Wang/Reviewer	



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3 General Information

3.1 Details of E.U.T.

Power supply:	Rechargeable battery DC3.7V,4000mAh, 14.8Wh,Charged by DC5V Input:DC 5V/1.85A,Output:DC 5V-1A/2A Wireless output:5W
Cable(s):	Undetachable input USB cable:about 30cm unshielded Undetachable 3 in 1 output cable:about 30cm unshielded
Operation frequency:	112.0kHz to 159.0kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, CCS 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.
Adapter	Apple	A2167	REF. No.SEA01A01
mobile phone	SAMSUNG	Galaxy S9	R58M681WFNB
E-loading	SGS	N/A	REF. No.SEA42A00



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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.5 Deviation from Standards

None

3.6 Abnormalities from Standard Conditions

None



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4 Equipment List

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	CRT	N/A	SEM001-13	2024/7/12
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2023-04-01

Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging and discharging mode_Keep the EUT being charged while discharging with WPC (5W).
Pre-scan	01	Discharging mode_Keep the EUT discharging with WPC (5W).



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5 Radio Spectrum Matter Test Results

5.1 Magnetic field strength

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

47 CFR PART 2, Subpart J, Section 2.1093

Measurement Distance: 0/2/4/6/8/10/12/14/16/18/20cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
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
300-1,500	/	/	f/300	<6
1,500-100,000	/	/	5	<6
(ii) 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
300-1,500	/	/	f/1500	<30
1,500-100,000	/	/	1.0	<30

f = frequency in MHz.

* = Plane-wave equivalent power density.

The emissions should be within the limits at 300kHz in Table 1 Of 1.1310 (use the 300kHz limits for the lower frequencies)



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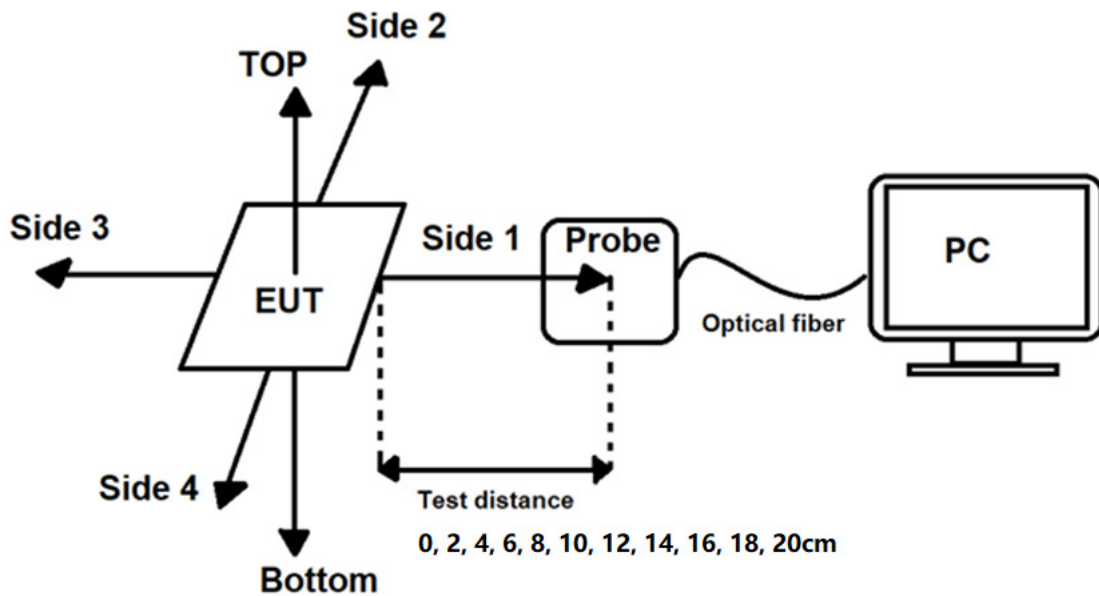
5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 52.5 % RH Atmospheric Pressure: 1020 mbar

This device has been tested with cell phone at zero charge, intermediate charge, full charge and no load, half load, full load during the test.

5.1.2 Test Setup Diagram



Note1: H-field data are taken along all three axes the device, from 0 cm to 20 cm, in 2 cm maximum increment measured from the edge of the device, with one axis coincident with the axis of the main coil.



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5.1.3 Measurement Procedure and Data

Input Voltage=DC 5V; The max output power =5W

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
121.5 kHz which is the worst case within the operation frequency range	0	Side 1	0.205	0.231	0.273	0.815	0.163
		Side 2	0.170	0.188	0.230		
		Side 3	0.182	0.202	0.248		
		Side 4	0.140	0.157	0.190		
		Top	0.092	0.106	0.128		

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		
117.8 kHz which is the worst case within the operation frequency range	0	Side 1	0.284	0.239	0.197	0.815	0.163
		Side 2	0.232	0.195	0.161		
		Side 3	0.245	0.206	0.170		
		Side 4	0.186	0.156	0.129		
		Top	0.125	0.105	0.087		

* When the EUT does not sense a cell phone to be charged, it will go into low power mode.



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
			121.5 kHz which is the worst case within the operation frequency range	2	Side 1		
Side 2	0.141	0.156	0.191				
Side 3	0.145	0.161	0.198				
Side 4	0.112	0.129	0.155				
Top	0.079	0.092	0.112				

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		
117.8 kHz which is the worst case within the operation frequency range	2	Side 1	0.241	0.204	0.161	0.815	0.163
Side 2	0.195	0.165	0.130				
Side 3	0.207	0.175	0.138				
Side 4	0.156	0.132	0.105				
Top	0.105	0.089	0.070				

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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
121.5 kHz which is the worst case within the operation frequency range	4	Side 1	0.141	0.156	0.190	0.815	0.163
		Side 2	0.111	0.124	0.148		
		Side 3	0.121	0.140	0.166		
		Side 4	0.096	0.106	0.130		
		Top	0.062	0.072	0.085		

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		
117.8 kHz which is the worst case within the operation frequency range	4	Side 1	0.193	0.161	0.131	0.815	0.163
		Side 2	0.155	0.130	0.106		
		Side 3	0.164	0.137	0.111		
		Side 4	0.128	0.107	0.087		
		Top	0.085	0.071	0.058		

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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
			121.5 kHz which is the worst case within the operation frequency range	6	Side 1		
Side 2	0.098	0.115	0.133				
Side 3	0.107	0.119	0.143				
Side 4	0.078	0.093	0.106				
Top	0.053	0.062	0.078				

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		
117.8 kHz which is the worst case within the operation frequency range	6	Side 1	0.168	0.140	0.113	0.815	0.163
Side 2	0.136	0.114	0.092				
Side 3	0.147	0.122	0.099				
Side 4	0.110	0.092	0.074				
Top	0.075	0.062	0.051				

* When the EUT does not sense a cell phone to be charged, it will go into low power mode.



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
			121.5 kHz which is the worst case within the operation frequency range	8	Side 1		
Side 2	0.086	0.097	0.118				
Side 3	0.096	0.109	0.130				
Side 4	0.071	0.080	0.095				
Top	0.050	0.060	0.070				

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		
117.8 kHz which is the worst case within the operation frequency range	8	Side 1	0.141	0.119	0.099	0.815	0.163
Side 2	0.113	0.095	0.079				
Side 3	0.126	0.106	0.088				
Side 4	0.096	0.080	0.067				
Top	0.069	0.057	0.048				

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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
			121.5 kHz which is the worst case within the operation frequency range	10	Side 1		
Side 2	0.067	0.080	0.092				
Side 3	0.076	0.089	0.105				
Side 4	0.064	0.073	0.092				
Top	0.048	0.057	0.069				

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		
117.8 kHz which is the worst case within the operation frequency range	10	Side 1	0.114	0.096	0.077	0.815	0.163
Side 2	0.094	0.079	0.063				
Side 3	0.102	0.086	0.069				
Side 4	0.081	0.068	0.055				
Top	0.057	0.048	0.039				

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Magnetic Field Emissions							
Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
121.5 kHz which is the worst case within the operation frequency range	12	Side 1	0.052	0.060	0.074	0.815	0.163
		Side 2	0.040	0.047	0.059		
		Side 3	0.043	0.051	0.062		
		Side 4	0.040	0.051	0.055		
		Top	0.029	0.039	0.046		

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		
117.8 kHz which is the worst case within the operation frequency range	12	Side 1	0.066	0.055	0.044	0.815	0.163
		Side 2	0.053	0.045	0.035		
		Side 3	0.060	0.050	0.040		
		Side 4	0.050	0.042	0.033		
		Top	0.031	0.026	0.021		

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Magnetic Field Emissions							
Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
			121.5 kHz which is the worst case within the operation frequency range	14	Side 1		
Side 2	0.034	0.045	0.048				
Side 3	0.034	0.039	0.048				
Side 4	0.035	0.046	0.047				
Top	0.022	0.030	0.035				

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		
			117.8 kHz which is the worst case within the operation frequency range	14	Side 1		
Side 2	0.039	0.033	0.026				
Side 3	0.040	0.034	0.027				
Side 4	0.039	0.032	0.026				
Top	0.025	0.021	0.017				

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Magnetic Field Emissions							
Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
121.5 kHz which is the worst case within the operation frequency range	16	Side 1	0.031	0.038	0.049	0.815	0.163
		Side 2	0.026	0.035	0.041		
		Side 3	0.032	0.040	0.048		
		Side 4	0.020	0.026	0.030		
		Top	0.024	0.034	0.038		

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		
117.8 kHz which is the worst case within the operation frequency range	16	Side 1	0.033	0.028	0.022	0.815	0.163
		Side 2	0.027	0.023	0.018		
		Side 3	0.035	0.030	0.024		
		Side 4	0.023	0.019	0.015		
		Top	0.023	0.020	0.016		

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Magnetic Field Emissions							
Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
			121.5 kHz which is the worst case within the operation frequency range	18	Side 1		
Side 2	0.024	0.034			0.038		
Side 3	0.019	0.024			0.031		
Side 4	0.020	0.030			0.029		
Top	0.018	0.024			0.027		

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		
117.8 kHz which is the worst case within the operation frequency range	18	Side 1	0.027	0.023	0.018	0.815	0.163
		Side 2	0.026	0.022	0.017		
		Side 3	0.021	0.018	0.014		
		Side 4	0.024	0.020	0.016		
		Top	0.017	0.014	0.011		

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Magnetic Field Emissions							
Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			No load*	Half load	Full load		
			121.5 kHz which is the worst case within the operation frequency range	20	Side 1		
Side 2	0.026	0.036	0.039				
Side 3	0.024	0.031	0.038				
Side 4	0.021	0.030	0.035				
Top	0.015	0.017	0.021				

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		
117.8 kHz which is the worst case within the operation frequency range	20	Side 1	0.025	0.022	0.017	0.815	0.163
Side 2	0.026	0.022	0.018				
Side 3	0.028	0.023	0.019				
Side 4	0.020	0.017	0.013				
Top	0.015	0.012	0.010				

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6 Photographs- RF exposure Setup photos

Refer to Appendix – RF Exposure Setup Photos for FYCR2210000429AT

- End of the Report -



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