

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221100045703

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TEST REPORT

Application No.: FYCR2211000457AT (SGS SZ NO.: T52210330024EM)
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: WOODEN WIRELESS ECO CABLE
Model No.: 32508/C40
PO No: 5481_SCX
Shipment Order No: DP00045029
FCC ID: 2A2OH-C4030L
Standard(s) : 47 CFR PART 2, Subpart J, Section 2.1091
 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2022-11-11
Date of Test: 2022-11-15 to 2022-12-05
Date of Issue: 2023-01-03

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

Winkey Wang

Winkey Wang
EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-01-03		Original

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



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3 General Information

3.1 Details of E.U.T.

Power supply:	Input:DC 5V/2A via USB-A or USB-C Output:DC 5V-1A/2A Wireless:5W
Cable(s):	Undetachable 3 in 1 output cable:about 100cm unshielded
Operational Frequency:	115.0kHz to 137.2kHz
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

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.



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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	Charge mode_Keep the EUT charging(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 2.1091
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)
(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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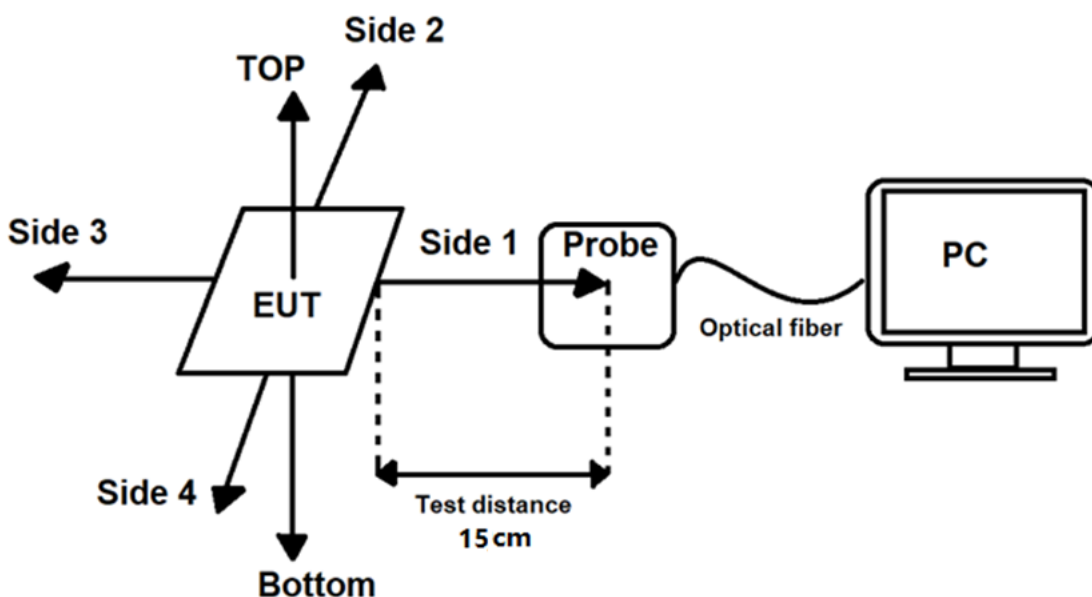
5.1.1 E.U.T. Operation

Operating Environment:

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

This device has been tested 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 Test Setup Diagram



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5.1.1 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)
			unload	Half load	full load		
121 kHz which is the worst case within the operation frequency range	15	Side 1	0.037	0.045	0.052	0.815	0.163
		Side 2	0.039	0.045	0.056		
		Side 3	0.036	0.042	0.052		
		Side 4	0.037	0.042	0.052		
		Top	0.036	0.045	0.049		

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		
127 kHz which is the worst case within the operation frequency range	15	Side 1	0.050	0.042	0.033	0.815	0.163
		Side 2	0.046	0.039	0.031		
		Side 3	0.047	0.039	0.031		
		Side 4	0.051	0.042	0.034		
		Top	0.040	0.034	0.027		

- End of the Report -



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