

Report No.: GZCR210802089702

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## RF EXPOSURE EVALUATION REPORT

**Application No.:** GZCR2108020897AT((SGS SZ No.: T52110270202EM))

Applicant: SCX DESIGN

Address of Applicant: 68 bis Boulevard Pereire 75017 Paris, France

Manufacturer: SCX DESIGN

Address of Manufacturer: 68 bis Boulevard Pereire 75017 Paris, France

**Equipment Under Test (EUT):** 

**EUT Name:** SCX Design 10W Induction Mousepad

**Model No.:** O25/32473

Standard(s): 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1093

**Date of Receipt:** 2021-08-04

**Date of Evaluation:** 2021-08-15 to 2021-08-25

**Date of Issue:** 2022-07-29

Evaluation Result: Pass\*

Kobe Jian EMC Laboratory Manager

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



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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2021-09-03		Original		
02		2022-07-29		Updated the test results from 0-20cm		

Authorized for issue by		
	Cof Vlu	
	Curry Wu/Project Engineer	
	Ridge Liu	
	Ricky Liu/Reviewer	



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#### **Evaluation Summary** 2

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310	KDB 680106 D01 TCB Workshop Presentation November 2019 RF Exposure	CFR 47 Part 1.1310	Pass			

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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### 4 General Information

### 4.1 Details of E.U.T.

Power supply: Input: 5Vdc/2A, 9Vdc/2A;

Wireless Output: 5Vdc/1A, 7.5Vdc/1A, 9Vdc/1.12A

USB-A Output: 5Vdc/2A

Operation Frequency: 114.0kHz to 150kHz
Modulation Type: Load modulation
Antenna Type: Loop antenna

### 4.2 Test modes 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)
Final test	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Idle mode_Keep the EUT standby

### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
Adapter	XIAOMI	MDY-08	REF. No.SEA05M02F
Mini USB Cable	SANBO	SU-T21	REF. No.SEA07B01
E-loading	SGS	N/A	REF. No.SEA42A00

### 4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
RF Exposure Evaluation	MF: 0.13dB, EF: 0.4dB



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## 5 Equipment Used during Test

RF Exposure					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
743 Compact 3m Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2019-10-20	2022-10-19
Electric and Magnetic Field	Nordo	NBM-	EMC0140	2021-01-06	2022-01-05
Analyzer	Narda	550/EHP-50F	EMC2143	2022-01-05	2023-01-04

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
DMM	Fluke	73	EMC0006	2021-07-08	2022-07-07			



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### 5.1 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

### 5.2 Facility

The facility is recognized, certified, or accredited by the following organizations:

#### NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

### SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

#### CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

#### FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

#### • ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

#### VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

#### • CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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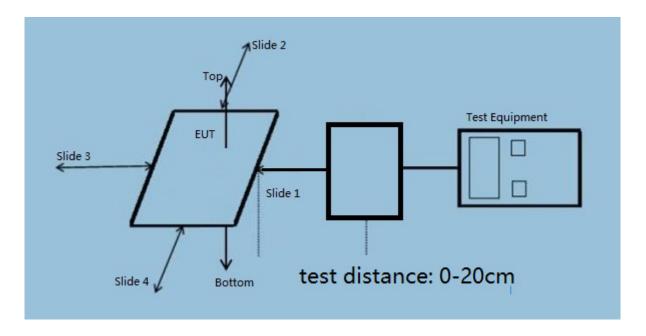
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### 5.3 Deviation from Standards

### 5.4 Abnormalities from Standard Conditions

None

### 5.5 Test Block Diagram





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### 6 Test Results

### 6.1 RF Exposure test

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

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

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

### TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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 Gen	eral Population/Uncontro	olled Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	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).



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



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According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

 $S = \frac{PG}{4\pi d^2}$ 

 $S = power density (mW/cm^2)$ 

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)

### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 53.5% RH Atmospheric Pressure: 1015 mbar

#### **EUT Operation:**

This device has been tested at the unload, half load and full load and the device has been tested with load at zero charge, intermediate charge, and full charge.



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#### 6.1.2 Measurement Data

Test mode: 02 The max output power =10W

**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		
117.2 kHz		Side 1	0.222	0.248	0.299		
which is the worst		Side 2	0.265	0.298	0.353		
case	0	Side 3	0.228	0.257	0.304	0.015	0.163
within the	0	Side 4	0.264	0.295	0.351	0.815	
operation frequency range		Тор	0.296	0.329	0.394		

#### **Magnetic Field Emissions**

Onoration	Test Distance		Probe M	50 % Limit	10 % Limit		
Operation frequency	(cm)	Test Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
134.8 kHz which is the worst	is	Side 1	0.319	0.267	0.217		
		Side 2	0.373	0.312	0.254		
case	0	Side 3	0.322	0.269	0.219	0.015	0.100
within the	0	Side 4	0.376	0.315	0.256	0.815	0.163
operation frequency range		Тор	0.422	0.353	0.287		



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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		
117.2 kHz		Side 1	0.196	0.217	0.265		
which is the worst		Side 2	0.220	0.248	0.293		
case	0	Side 3	0.198	0.220	0.262	0.015	0.160
within the	2	Side 4	0.224	0.250	0.301	0.815	0.163
operation frequency range		Тор	0.253	0.285	0.335		

### **Magnetic Field Emissions**

Magnetici	1014 E1111001						1
Omeration	Test Distance	Toot	Probe M	Probe Measure Result(A/m)			
Operation frequency	(cm)	Test Position	zero charge	intermediate charge	full charge	( <b>A</b> /m)	(A/m)
134.8 kHz		Side 1	0.274	0.228	0.185		
which is the worst		Side 2	0.318	0.264	0.215		
case	0	Side 3	0.277	0.230	0.187	0.015	0.400
within the	2	Side 4	0.322	0.268	0.218	0.815	0.163
operation frequency range		Тор	0.360	0.300	0.244		



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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		
117.2 kHz	which is	Side 1	0.167	0.189	0.228		
which is the worst		Side 2	0.194	0.218	0.263		
case	4	Side 3	0.171	0.194	0.233	0.015	0.100
within the	4	Side 4	0.194	0.218	0.257	0.815	0.163
operation frequency range		Тор	0.214	0.240	0.289		

### **Magnetic Field Emissions**

Magnetici							
Onevetion	Test Distance	Test	Probe M	easure Result(	easure Result(A/m)		10 % Limit
Operation frequency	(cm)	Position	zero charge	intermediate charge	full charge	( <b>A</b> /m)	(A/m)
134.8 kHz		Side 1	0.226	0.189	0.157		
which is the worst		Side 2	0.265	0.222	0.185		
case	4	Side 3	0.232	0.194	0.161	0.015	0.100
within the	4	Side 4	0.266	0.223	0.186	0.815	0.163
operation frequency range		Тор	0.297	0.249	0.207		



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Operation frequency	Test Distance (cm)	Test Position	Probe	e Measure Resi	50 % Limit (A/m)	10 % Limit (A/m)	
			unload	Half load	full load		
117.2 kHz	hich is	Side 1	0.135	0.151	0.180		
which is the worst		Side 2	0.151	0.169	0.203		
case	C	Side 3	0.132	0.148	0.178	0.015	0.100
within the	6	Side 4	0.156	0.176	0.211	0.815	0.163
operation frequency range		Тор	0.168	0.190	0.223		

#### **Magnetic Field Emissions**

Operation frequency (cm)	Test Distance	Test	Probe M	Probe Measure Result(A/m)			
	(cm)	Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
134.8 kHz		Side 1	0.183	0.154	0.124		
which is		Side 2	0.215	0.181	0.146		
the worst case	0	Side 3	0.186	0.156	0.126		
within the	6	Side 4	0.215	0.181	0.146	0.815	0.163
operation frequency range		Тор	0.239	0.201	0.162		



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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		
117.2 kHz		Side 1	0.131	0.149	0.181		
which is the worst		Side 2	0.137	0.157	0.183		
case	0	Side 3	0.134	0.150	0.178	0.015	0.160
within the	8	Side 4	0.138	0.157	0.189	0.815	0.163
operation frequency range		Тор	0.148	0.168	0.200		

### **Magnetic Field Emissions**

Magnetici							1
Onevetien	Test Distance	Toot	Probe M	Probe Measure Result(A/m)			
Operation frequency	(cm)	Test Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
134.8 kHz		Side 1	0.179	0.149	0.121		
which is the worst		Side 2	0.190	0.158	0.129	0.045	0.400
case	0	Side 3	0.187	0.155	0.126		
within the	8	Side 4	0.199	0.165	0.134	0.815	0.163
operation frequency range		Тор	0.211	0.176	0.143		



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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		
117.2 kHz		Side 1	0.116	0.134	0.157		
which is the worst		Side 2	0.119	0.136	0.158		
case	10	Side 3	0.117	0.130	0.161	0.815	0.163
within the	10	Side 4	0.119	0.136	0.163	0.615	0.163
operation frequency range		Тор	0.134	0.148	0.183		

### **Magnetic Field Emissions**

- wagnetic i							
Operation	Test Distance	Test	Probe M	easure Result(	50 % Limit	10 % Limit	
Operation frequency	(cm)	Position	zero charge	intermediate charge	full charge	( <b>A</b> /m)	(A/m)
134.8 kHz		Side 1	0.153	0.128	0.106		
which is the worst		Side 2	0.157	0.132	0.110		
case	10	Side 3	0.157	0.132	0.109	0.015	0.400
within the	10	Side 4	0.164	0.137	0.114	0.815	0.163
operation frequency range		Тор	0.176	0.147	0.123		



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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		
117.2 kHz		Side 1	0.092	0.107	0.133		
which is the worst		Side 2	0.095	0.105	0.130		
case	10	Side 3	0.098	0.112	0.132	0.815	0.160
within the	12	Side 4	0.097	0.111	0.131	0.615	0.163
operation frequency range		Тор	0.106	0.119	0.144		

#### **Magnetic Field Emissions**

Operation frequency (cm)	Test Distance	Test	Probe M	Probe Measure Result(A/m)			
	(cm)	Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
134.8 kHz		Side 1	0.123	0.103	0.083		
which is		Side 2	0.128	0.107	0.086		
the worst case	40	Side 3	0.130	0.109	0.088		
within the	12	Side 4	0.134	0.112	0.091	0.815	0.163
operation frequency range		Тор	0.146	0.123	0.099		



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Operation frequency	Test Distance (cm)	Test Position	Probe	50 % Limit (A/m)	10 % Limit (A/m)		
			unload	Half load	full load		
117.2 kHz		Side 1	0.083	0.099	0.115	0.815	0.163
which is the worst		Side 2	0.087	0.100	0.120		
case	14	Side 3	0.081	0.091	0.114		
within the	within the	Side 4	0.097	0.110	0.136		
operation frequency range		Тор	0.088	0.100	0.120		

### **Magnetic Field Emissions**

Operation frequency	Test Distance	Toot	Probe M	easure Result(	50 % Limit	10 % Limit	
	(cm)	Test Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
134.8 kHz		Side 1	0.111	0.092	0.075	0.815	0.163
which is the worst		Side 2	0.125	0.104	0.085		
case	4.4	Side 3	0.109	0.090	0.073		
within the	14	14 Side 4	0.135	0.112	0.091		
operation frequency range		Тор	0.118	0.098	0.080		



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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		
117.2 kHz		Side 1	0.069	0.081	0.096	0.815	0.163
which is the worst		Side 2	0.081	0.091	0.112		
case	16	Side 3	0.072	0.087	0.102		
within the		Side 4	0.090	0.104	0.120		
operation frequency range		Тор	0.075	0.086	0.103		

#### **Magnetic Field Emissions**

magnetic ried Linisalons									
Operation frequency	Test Distance	Toot	Probe M	50 % Limit	10 % Limit				
	(cm)	Test Position	zero charge	intermediate charge	full charge	( <b>A</b> /m)	(A/m)		
134.8 kHz		Side 1	0.094	0.079	0.066	0.815	0.163		
which is the worst		Side 2	0.106	0.089	0.074				
case	10	Side 3	0.093	0.078	0.065				
within the	operation	Side 4	0.116	0.097	0.081				
operation frequency range		Тор	0.101	0.084	0.070				



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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		
117.2 kHz		Side 1	0.059	0.067	0.085	0.815	0.163
which is the worst		Side 2	0.064	0.077	0.087		
case	10	Side 3	0.058	0.069	0.079		
within the		Side 4	0.074	0.082	0.100		
operation frequency range		Тор	0.064	0.072	0.087		

#### **Magnetic Field Emissions**

Operation frequency	Test Distance	Toot	Probe M	easure Result(	50 % Limit	10 % Limit	
	(cm)	Test Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
134.8 kHz		Side 1	0.077	0.065	0.052	0.815	0.163
which is		Side 2	0.089	0.075	0.060		
the worst case	40	Side 3	0.079	0.066	0.053		
within the	operation frequency	Side 4	0.096	0.081	0.065		
		Тор	0.086	0.072	0.058		



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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		
117.2 kHz		Side 1	0.050	0.062	0.070	0.815	0.163
which is the worst		Side 2	0.057	0.066	0.081		
case	20	Side 3	0.050	0.057	0.070		
within the		Side 4	0.058	0.071	0.081		
operation frequency range		Тор	0.055	0.063	0.076		

### **Magnetic Field Emissions**

Operation frequency	Test Distance	Toot	Probe M	50 % Limit	10 % Limit		
	(cm)	Test Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
134.8 kHz		Side 1	0.070	0.059	0.047	0.815	0.163
which is the worst		Side 2	0.073	0.062	0.049		
case	00	Side 3	0.069	0.058	0.046		
within the 20	20	Side 4	0.077	0.065	0.052		
operation frequency range		Тор	0.074	0.062	0.049		



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Test mode: 03

Operation	Test Distance	Test	Probe	50 % Limit	10 % Limit	
frequency	(cm)	Position	Measure Result (A/m)	(A/m)	(A/m)	
126.7KHz		Side 1	0.037		0.163	
which is the worst		Side 2	0.039			
case within the	0	Side 3	0.035	0.815		
operation frequency		Side 4	0.032			
range		Тор	0.031			

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#### 7 Photographs- RF exposure Setup photos

Refer to Appendix - RF Exposure Setup Photos for GZCR2108020897AT

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