



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200417303

Page: 1 of 11

Human Exposure Report

Application No.: SZCR2312004173AT
Applicant: Scosche Industries Inc
Address of Applicant: 1550 Pacific Ave Oxnard California 93033 United States
Manufacturer: Scosche Industries Inc
Address of Manufacturer: 1550 Pacific Ave Oxnard California 93033 United States
Factory: Scosche Industries Inc
Address of Factory: 1550 Pacific Ave Oxnard California 93033 United States
Equipment Under Test (EUT):
EUT Name: Wireless Car Charger
Model No.: MEMSQR
Trade Mark: SCOSCHE
FCC ID: IKQMEMSQR
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2023-12-18
Date of Test: 2023-12-27 to 2024-01-17
Date of Issue: 2024-01-23

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 Laboratory

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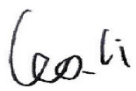
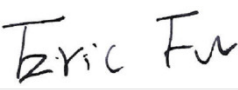
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-01-23		Original

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



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3 General Information

3.1 Details of E.U.T.

Power supply:	Input: 5V/3A, 9V/2.22A, 12V/1.67A from car charger Output: 15W Max
Test Voltage:	AC 120V/60Hz
Operation frequency:	112.0kHz to 147.4kHz
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.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC power supply	ZHAOXIN	PS-3005D	REF. No.SEA27B01
E-loading	N/A	N/A	REF. No.SEA42A00
iPhone 8	Apple	A1863	REF. No.SEA16M00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00



3.3 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.

3.4 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.



3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	CRT	N/A	SEM001-13	2025-07-11
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2024-03-31

5 Description of test model

Test Item	Test Mode
Maximum Permissible Exposure	Wireless Charing with Empty Load
	Wireless Charing with Half Load
	Wireless Charing with Full Load

Remark: the full load is the worst case, which is recorded in this report.



6 Test Results

6.1 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).



6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % 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.

6.1.2 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)



6.1.3 Measurement Data

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		
			123.2 kHz which is the worst case within the operation frequency range	20	Side 1		
Side 2	0.042	0.083	0.096				
Side 3	0.044	0.063	0.073				
Side 4	0.042	0.074	0.087				
Top	0.040	0.067	0.080				

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		
123.2 kHz which is the worst case within the operation frequency range	20	Side 1	0.111	0.093	0.045	0.815	0.163
		Side 2	0.117	0.098	0.049		
		Side 3	0.091	0.076	0.039		
		Side 4	0.100	0.084	0.044		
		Top	0.101	0.085	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		
145.1 kHz which is the worst case within the operation frequency range	20	Side 1	0.047	0.415	0.548	307	61.4
		Side 2	0.048	0.392	0.517		
		Side 3	0.040	0.417	0.550		
		Side 4	0.042	0.462	0.615		
		Top	0.043	0.636	0.837		

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		
145.1 kHz which is the worst case within the operation frequency range	20	Side 1	0.484	0.401	0.234	307	61.4
		Side 2	0.456	0.379	0.223		
		Side 3	0.485	0.404	0.237		
		Side 4	0.543	0.447	0.262		
		Top	0.739	0.615	0.362		



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7 Test Setup Photos

Refer to Appendix - Test Setup Photo for SZCR2312004173AT

- End of the Report -



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