

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900345003

Page: 1 of 10

Human Exposure Report

Application No.:SZCR2409003450ATApplicant: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.: MPQM, MPQMT, MPQMD, MPQMR, MPQMRT, MPQMRDV, MPQMRWD

*

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: SCOSCHE FCC ID: IKQMPQM

Standards: 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2024-09-06

Date of Test: 2024-09-23 to 2024-09-26

Date of Issue: 2024-11-18

Test Result : Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900345003

2 of 10 Page:

	Revision Record									
Version	Modifier	Remark								
01		2024-11-18		Original						

Authorized for issue by:			
	Leslai		
	Leo Lai/Project Engineer	-	
	Exic Fu		
	Eric Fu/Reviewer	-	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900345003

Page: 3 of 10

Contents

1	1 COVER PAGE	
-		
2	2 CONTENTS	3
3	3 GENERAL INFORMATION	
	3.1 DETAILS OF E.U.T.	4
	3.2 DESCRIPTION OF SUPPORT UNITS	
	3.2 DESCRIPTION OF SUPPORT UNITS 3.3 TEST LOCATION	5
	3.4 TEST FACILITY	
	3.5 DEVIATION FROM STANDARDS	6
	3.6 ABNORMALITIES FROM STANDARD CONDITIONS	6
1	4 EQUIPMENTS USED DURING TEST	4
•	4 EQUIPMENTS USED DUNING TEST	
5	5 TEST RESULTS	7
_		
	5.1 RF EXPOSURE TEST	
	5.1.1 E.U.T. Operation	
6	6 TEST SETUP PHOTOS	10



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900345003

Page: 4 of 10

General Information 3

Details of E.U.T.

Power supply:	Input: 5V/3A, 9V/2.22A
	Output: 15W Max
Cable(s):	Type-C cable 1: 120cm unshielded
	Type-C cable 2: 150cm unshielded
Operation frequency:	114.4kHz to 131.0kHz & 357.1kHz to 369.2kHz
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.: MPQM, MPQMT, MPQMD, MPQMR, MPQMRT, MPQMRDV, MPQMRWD

Only the model MPQM was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on packing method, accessories, appearance shape and model name.

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
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00



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Report No.: SZCR240900345003 SZEMC-TRF-01 Rev. A/1

> 5 of 10 Page:

Test Location 3.3

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.



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Report No.: SZCR240900345003 SZEMC-TRF-01 Rev. A/1

> Page: 6 of 10

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

Equipments Used during Test 4

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-04-01
2	MAGPy-8H3D+E3D	SPEAG	3061	SEM060-31	2025/04/11
3	MAGPy-DAS	SPEAG	3063	SEM060-32	2025/04/11



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900345003

Page: 7 of 10

Test Results 5

RF Exposure test

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

47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 15cm

Limit:

Frequency range (MHz)			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 Genera	l Population/Uncontrolle	d Exposure							
0.3-1.34	614	1.63	*(100)	30						
1.34-30	824/f	2.19/f	*(180/f²)	30						
30-300	27.5	0.073	0.2	30						
300-1500	/	1	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).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C 50.6 % RH Atmospheric Pressure: 1020 mbar Humidity: 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.



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^{*=}Plane-wave equivalent power density



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900345003

Page: 8 of 10

5.1.2 **Measurement Data**

Magnetic Field Emissions

Operation Frequency	Test	Probe Measure Result (A/m)						Limits:				
	Position	2cm	4cm	6cm	8cm	10cm	12cm	14cm	`6cm	18cm	20cm	(A/m)
360.0 kHz	Side 1	0.612	0.305	0.211	0.153	0.113	0.084	0.061	0.045	0.034	0.028	
which is the worst	Side 2	0.788	0.398	0.266	0.186	0.131	0.090	0.064	0.044	0.034	0.027	
case within the	Side 3	0.674	0.337	0.230	0.164	0.119	0.085	0.062	0.045	0.036	0.031	1.63
operation frequency	Side 4	0.561	0.208	0.139	0.097	0.068	0.046	0.033	0.023	0.018	0.015	
range	Тор	0.965	0.446	0.301	0.212	0.152	0.106	0.072	0.051	0.038	0.029	

Remark: Refer to the MAGPy-8H3D+E3D specification, the center of the probe to the outer edge is 18.5mm, so the minimum tset distance can only reach 2cm.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900345003

Page: 9 of 10

H-field strength at 0cm:

Validation:

To determine the H-field strength of 0cm, an extrapolation function by setting to probe tip in the software of MAGPy-8H3D+E3D probe.

The validation of the extrapolation is as follows:

Operation Frequency	Test	Estimated value:	30% tolera	nce(A/m)	Measured value (A/m) (probe center to EUT)	
	distance: (cm)	(A/m) (probe tip to EUT)	Min	Max		
360.0 kHz which is the	1.85	0.996	0.697	1.295	1.072	
worst case within the	3.85	0.461	0.323	0.599	0.579	
operation frequency range	5.85	0.330	0.231	0.429	0.361	

Remark:

- 1 According to KBD 680106 D01 V04, the validation is considered sufficient if a 30% agreement between the Estimated value and the (E-field and H-field) probe measurements id demonstrated.
- 2 Estimated value obtained from the tip function of the probe.

Operation Frequency	Test Distance (cm)	Test Position	Estimated Result (A/m)	Limits: (A/m)
		Side 1	0.792	
360.0 kHz which is the worst		Side 2	0.952	
case within the	0	Side 3	0.809	1.63
operation frequency range		Side 4	0.662	
		Тор	1.154	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900345003

10 of 10 Page:

6 **Test Setup Photos**

Refer to Appendix - Test Setup Photo for SZCR2409003450AT

- End of the Report -



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