



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600225903

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Human Exposure Report

Application No.: SZCR2406002259AT
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.: MEQMR, MEQMRWD, MEQMRSRM, MEQMRAMPS, MEQMRWDV, MEQM, MEQMSRM, MEQMSRM-AP2
♣
♣ Please refer to section 3 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: SCOSCHE
FCC ID: IKQMEQM
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
KDB680106 D01 Wireless Power Transfer V04
Date of Receipt: 2024-06-12
Date of Test: 2024-07-01 to 2024-08-16
Date of Issue: 2024-08-19

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

Keny Xu

Ken Xu
EMC Laboratory Manager



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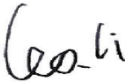
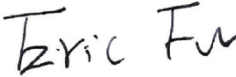
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-08-19		Original

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: DC 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 128.8kHz & 356.8kHz to 369.6kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna
Duty cycle:	100%

Remark 1: 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.

Remark 2: when this device output 5/7.5/10W, the operation frequency range is 114.4kHz to 128.8kHz; when this device output 15W, the operation frequency range is 356.8kHz to 369.6kHz.

Remark 3: the EUT was powered by CPDCC40M and CPDC20 car charger.all power input voltages(DC 5V/3A, 9V/2.22A) and all output powers have been tested. The worst-case testing data were recorded in this report.



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Declaration of EUT Family Grouping:

Model No.: MEQMR, MEQMRWD, MEQMRSRM, MEQMRAMPS,
MEQMRWDV, MEQM, MEQMSRM, MEQMSRM-AP2

Only the model MEQMR 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
iPhone 15Pro	Apple	A3104	REF. No.SEA16Q02
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00



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3.3 Test Location

All tests were performed at:

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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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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	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

5 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the mobile phone is charging at 1% battery power(CPDCC40M)
Pre-scan	01	Charge mode_Keep the mobile phone is charging at 50% battery power(CPDCC40M)
Pre-scan	02	Charge mode_Keep the mobile phone is charging at 99% battery power(CPDCC40M)
Final test	03	Charge mode_Keep the EUT continuous charging(15W)(CPDCC40M)

Remark 1:

1 H-field data were measured in minimal increments of 2cm from the edge of the device along all three axes of the device, from 0cm to 20cm, one axis is consistent with the axis of the main coil, all mode an distance have been fully tested.

2 Mode 03 is a special product sample provided by the customer for this test, which allows the equipment to operate at the maximum power(15W) without a client device.



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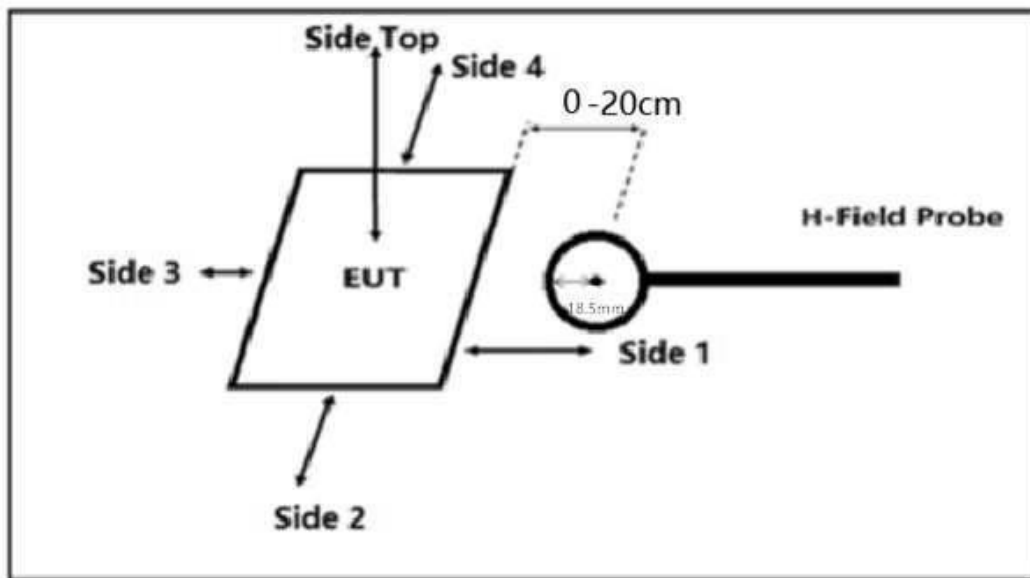
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6 Test Block Diagram



Remark:

- 1 The RF exposure test is performed in the anechoic chamber.
- 2 The test distance is measured from the center of the probe along all three axes of the device, from 0cm to 20cm, from the edge of the device coil in minimum 2cm increments.



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7 Test Results

7.1 RF Exposure test

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

Measurement Distance: 0-20cm

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).



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7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 52.9 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Measurement Data

Magnetic Field Emissions

Operation Frequency	Test Position	Probe Measure Result (A/m)										Limits: (A/m)
		2cm	4cm	6cm	8cm	10cm	12cm	14cm	16cm	18cm	20cm	
360.5 kHz which is the worst case within the operation frequency range	Side 1	0.895	0.356	0.087	0.034	0.023	0.019	0.013	0.009	0.005	0.001	1.63
	Side 2	0.967	0.435	0.079	0.045	0.034	0.022	0.017	0.008	0.006	0.001	
	Side 3	0.934	0.404	0.088	0.041	0.027	0.019	0.014	0.007	0.004	0.001	
	Side 4	0.872	0.389	0.064	0.029	0.018	0.011	0.009	0.004	0.002	0.001	
	Top	1.178	0.593	0.102	0.064	0.037	0.029	0.018	0.011	0.008	0.002	

Electric Field Emissions

Operation Frequency	Test Position	Probe Measure Result (V/m)										Limits: (V/m)
		2cm	4cm	6cm	8cm	10cm	12cm	14cm	16cm	18cm	20cm	
360.5 kHz which is the worst case within the operation frequency range	Side 1	17.872	7.088	1.827	0.748	0.510	0.417	0.294	0.202	0.113	0.025	614
	Side 2	19.051	9.259	1.666	0.987	0.741	0.494	0.383	0.174	0.136	0.030	
	Side 3	20.093	8.021	1.862	0.895	0.594	0.418	0.318	0.156	0.097	0.025	
	Side 4	18.809	7.840	1.351	0.646	0.413	0.260	0.212	0.087	0.054	0.027	
	Top	24.451	12.459	2.187	1.403	0.815	0.648	0.409	0.243	0.178	0.051	

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



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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 distance: (cm)	Estimated value: (A/m) (probe tip to EUT)	30% tolerance(A/m)		Measured value (A/m) (probe center to EUT)
			Min	Max	
360.5 kHz which is the worst case within the operation frequency range	1.85	1.242	0.870	1.615	1.226
	3.85	0.673	0.611	0.875	0.838
	5.85	0.114	0.080	0.148	0.102

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 is 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)
360.5 kHz which is the worst case within the operation frequency range	0	Side 1	1.023	1.63
		Side 2	1.045	
		Side 3	1.032	
		Side 4	1.028	
		Top	1.342	



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8 Test Setup Photos

Refer to Appendix - Test Setup Photo for SZCR22406002259AT.

- End of the Report -



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