



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

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

Report No.: SZCR230800249002

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# Human Exposure Report

**Application No.:** SZCR2308002490AT  
**Applicant:** Very Great, Inc DBA Courant  
**Address of Applicant:** 228 Park Ave South PMB 53363, New York 10003 United States  
**Manufacturer:** Very Great, Inc DBA Courant  
**Address of Manufacturer:** 228 Park Ave South PMB 53363, New York 10003 United States  
**Equipment Under Test (EUT):**  
**EUT Name:** MAG:1 Essentials (MFM)  
**Model No.:** CR-MAG1-ES-MFM-GN, CR-MAG1-ES-MFM-CM ♣  
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** Courant  
**FCC ID:** 2ARIH-MAG1M  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
47 CFR PART 2, Subpart J, Section 2.1091  
**Date of Receipt:** 2023-08-01  
**Date of Test:** 2023-08-03 to 2023-08-16  
**Date of Issue:** 2023-08-21

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above

Keny Xu

Keny Xu  
EMC Laboratory Manager



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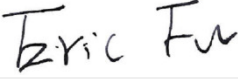
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-08-21		Original

Authorized for issue by:				
				
		Bill Chen/Project Engineer		
				
		Eric Fu/Reviewer		



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### 3 General Information

#### 3.1 Details of E.U.T.

Power Supply:	Adapter: Model: PD-014L Input: AC 100-240V 50/60Hz 0.6A PD 3.0 Output: DC 5V/3A,9V/2.22A,12V/1.67A Total Output:20W (max) Wireless Charging:15W
Cable(s):	Type C cable:150cm unshielded
Operation frequency:	126.4kHz to 129kHz
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.: CR-MAG1-ES-MFM-GN, CR-MAG1-ES-MFM-CM

Only the model CR-MAG1-ES-MFM-GN was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on the shape and colour of the shell, the others are the same.



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### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 13	Apple	MLE03ZA/A	REF. No.SEA16Q01
E-loading	SGS	N/A	REF. No.SEA42A00

### 3.3 Test Location

All tests were performed at:

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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.



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### 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	2024-07-12
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2024-04-01



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## 5 Test Results

### 5.1 RF Exposure test

Test Requirement:

47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Remark:

According to KDB publication 680106 section 3, the separation distance shall be measured from the geometric center of the probe head to the edge of the device, so test distance as above.

The EUT is considered as a mobile device and is evaluated at a distance of 20 cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
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  
\*=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).



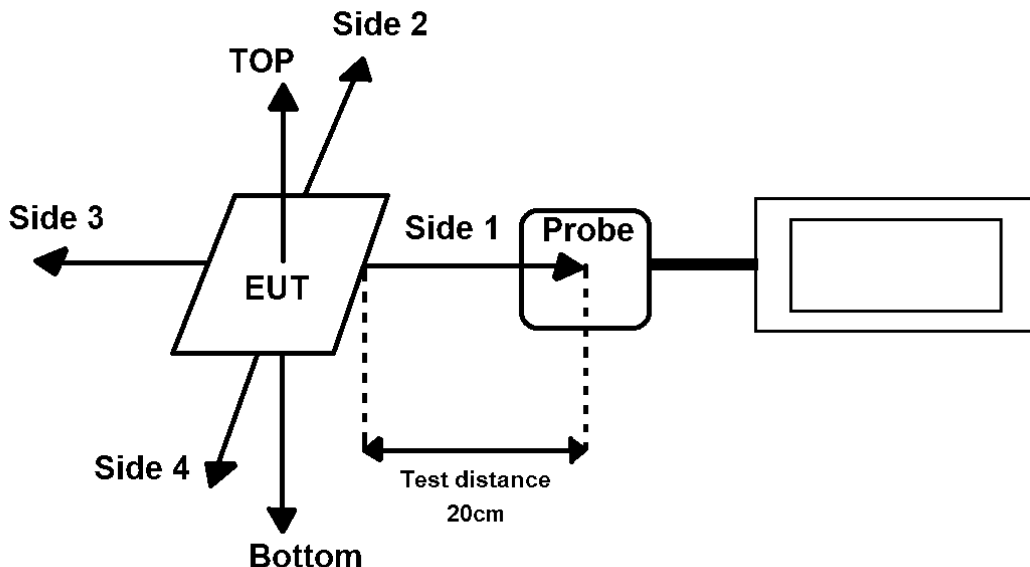
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### 5.1.1 E.U.T. Operation



### 5.1.2 E.U.T. Operation

#### Operating Environment:

Temperature: 22.3 °C

Humidity: 52.9 % RH

Atmospheric Pressure: 1015 mbar

### 5.1.1 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)

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 Measurement Data



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15W

Input Voltage=DC 9V; The max output power =15W for each coil.

### 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		
127 kHz which is the worst case within the operation frequency range	20	Side 1	0.031	0.038	0.041	0.815	0.163
		Side 2	0.025	0.029	0.038		
		Side 3	0.025	0.034	0.035		
		Side 4	0.024	0.030	0.033		
		Top	0.023	0.031	0.037		

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	20	Side 1	0.033	0.028	0.022	0.815	0.163
		Side 2	0.033	0.028	0.022		
		Side 3	0.031	0.026	0.021		
		Side 4	0.031	0.026	0.021		
		Top	0.030	0.025	0.020		

### 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		
127 kHz which is the worst case within the	20	Side 1	0.043	0.194	0.253	307	61.4
		Side 2	0.046	0.371	0.479		
		Side 3	0.038	0.226	0.288		
		Side 4	0.037	0.255	0.333		



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operation frequency range		Top	0.051	0.238	0.317		
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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		
127 kHz which is the worst case within the operation frequency range	20	Side 1	0.051	0.205	0.267	307	61.4
		Side 2	0.054	0.389	0.501		
		Side 3	0.049	0.231	0.292		
		Side 4	0.048	0.261	0.338		
		Top	0.062	0.252	0.331		

- End of the Report -



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)