



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

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

Report No.: SZCR230500144002

Page: 1 of 10

## Human Exposure Report

**Application No.:** SZCR2305001440AT  
**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:2 Essentials (MFM)  
**Model No.:** CR-MAG2-ES-MFM-GN, CR-MAG2-ES-MFM-CM ♣  
 ♣ Please refer to section 3.1 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** Courant  
**FCC ID:** 2ARIH-MAG2M  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
 47 CFR PART 2, Subpart J, Section 2.1091  
**Date of Receipt:** 2023-05-15  
**Date of Test:** 2023-05-16 to 2023-06-13  
**Date of Issue:** 2023-06-19

<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  
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-06-19		Original

<b>Authorized for issue by:</b>			
		<hr/>	
		<b>Bill Chen/Project Engineer</b>	
		<hr/>	
		<b>Eric Fu/Reviewer</b>	



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### 3 General Information

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

Power supply:	Adapter: Model: PD-014 Input: AC 100-240V 50/60Hz 0.8A PD 3.0 Output: DC 5V/3A,9V/3A,15V/2A,20V/1.5A Total Output:38W (max) Wireless Charging: Top Output:15W Buttom Output:5W
Cable(s):	Type C cable:150cm unshielded
Operation frequency:	112.2kHz to 147kHz(5W bottom) 337.6KHz-385.6KHz(Top)
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-MAG2-ES-MFM-GN, CR-MAG2-ES-MFM-CM

Only the model CR-MAG2-ES-MFM-CM was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No., shape and color of the shell.

#### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	HUAWEI	LYA-AL00	REF. No.SEA16C00
iPhone 13	Apple	MLE03ZA/A	REF. No.SEA16Q01
Earphone	Apple	A2566	REF. No.SEA10D00
E-loading	SGS	N/A	REF. No.SEA42A00



### 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	AUDIX	N/A	SEM001-02	2025-04-01
2	Electric and Magnetic Field Probe - Analyzer(9kHz-30MHz)	Narda	EHP-200A	SEM022-18	2024/5/23



## 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  
 Measurement Distance: 15/20cm  
 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).

#### 5.1.1 E.U.T. Operation

##### Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1015 mbar



**Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging mode_Keep the EUT charging (5W bottom)
Pre-scan	01	Charging mode_Keep the EUT charging (5W Top)
Pre-scan	02	Charging mode_Keep the EUT charging (7.5W Top)
Pre-scan	03	Charging mode_Keep the EUT charging (10W Top)
Pre-scan	04	Charging mode_Keep the EUT charging (15W Top)
Pre-scan	05	Charging mode_Keep the EUT charging (5W Top+5W bottom)
Pre-scan	06	Charging mode_Keep the EUT charging (7.5W Top+5W bottom)
Pre-scan	07	Charging mode_Keep the EUT charging (10W Top+5W bottom)
Final test	08	Charging mode_Keep the EUT charging (15W Top+5W bottom)

This device has been tested the worst status of full load and the device has been tested with mobile phone/earphone at zero charge, intermediate charge, and full charge.

**5.1.2 Measurement Data**

5W (Test mode:00)

**Input Voltage=DC 9V**

**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		
129 kHz which is the worst case within the operation frequency range	15	Side 1	0.104	0.116	0.142	0.815	0.163
		Side 2	0.106	0.122	0.147		
		Side 3	0.107	0.119	0.145		
		Side 4	0.099	0.113	0.134		
		Top	0.093	0.105	0.127		



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**Magnetic Field Emissions**

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		
133 kHz which is the worst case within the operation frequency range	15	Side 1	0.145	0.122	0.097	0.815	0.163
		Side 2	0.143	0.120	0.096		
		Side 3	0.148	0.125	0.099		
		Side 4	0.134	0.112	0.089		
		Top	0.130	0.109	0.087		



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15W+5W (Test mode:08)

**Input Voltage=DC 9V**

**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		
360.3KHz	15	Side 1	0.104	0.116	0.142	0.815	0.163
		Side 2	0.106	0.122	0.147		
		Side 3	0.107	0.119	0.145		
		Side 4	0.099	0.113	0.134		
360.3KHz	20	Top	0.093	0.105	0.127		
127.4KHz			0.059	0.078	0.091		

**Magnetic Field Emissions**

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		
360.3KHz	15	Side 1	0.145	0.122	0.097	0.815	0.163
		Side 2	0.143	0.120	0.096		
		Side 3	0.148	0.125	0.099		
		Side 4	0.134	0.112	0.089		
360.3KHz	20	Top	0.130	0.109	0.087		
132.7KHz			0.103	0.089	0.072		

- End of the Report -



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