

Human Exposure Report

Application No.: SZCR2104020734ET(SGS SZ No.:T52110250264EM)
Applicant: Lucky Group(H.K.) Limited
Address of Applicant: Building B, Lucky Industrial Park, Hongjin Road, Hongmei Town, Dongguan China
Manufacturer: Shenzhen Esorun Technology Co., Ltd
Address of Manufacturer: 1/F,Dormitory 1215, Guanguang Road, Guihua Community,Guanlan Street, Longhua District, Shenzhen China
Splicer: Lucky Group(H.K.) Limited
Importer: Dave & Buster's
Buyer: D&B
Equipment Under Test (EUT):
EUT Name: Wireless 5000 mAh Power Bank
Item No.: 18800
P.O. / Ref. No.: LBC10102 / LBD10205
Requested Age Grading: 3+
Country of Origin: China
Country of Destination: USA
FCC ID: 2ACO3-18800
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1093
Date of Receipt: 2021-04-25
Date of Test: 2021-04-29 to 2021-06-08
Date of Issue: 2021-06-08

Test Result :	Pass*
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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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2 General Information

	Input:DC5V 2A
	USB Output:DC5V 2A
Power supply:	Wireless Output:DC5V 1A
	Rechargeable battery DC3.7V
	Capacity:5000mAh
Cable(s):	USB cable:25cm unshielded
Operation frequency:	113.0kHz to 171.4kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

2.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A2167	REF. No.SEA05B04D
E-Loader	SGS	N/A	REF. No.SEA06A00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00



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2.2 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

2.3 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**

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. 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: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **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.

2.4 Deviation from Standards

None.

2.5 Abnormalities from Standard Conditions

None.



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3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2021-11-27
2	Shielding Room	SAEMC	MSR733	SEM001-09	2022-06-12



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4 Test Results

4.1 RF Exposure test

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

Measurement Distance: 0cm,2cm,4cm,6cm,8cm,10cm,15cm

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).

4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

Humidity: 48.5 % RH

Atmospheric Pressure: 1010 mbar



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

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Test Mode Description

Pre-scan Final test	Mode Code	Description
Pre-scan	02	Discharge mode1, keep EUT discharging via Wireless Output(DC5V 1A).
Pre-scan	03	Discharge mode2, keep EUT discharging via USB Output(DC5V 2A) and Wireless Output at the same time.
Final test	04	Charge + Discharge mode,keep EUT(power band) being charged while discharging via Wireless Output(DC5V 1A).

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,full charge and idle mode.



4.1.2 Measurement Data

Output Voltage=DC 5V; The max output power =5W;Calculation of resistor value=5Ω

Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
115.15	0	Side 1	0.5531	0.815
		Side 2	0.4493	0.815
		Side 3	0.4182	0.815
		Side 4	0.4255	0.815
		Top	0.3524	0.815

Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
115.15	2	Side 1	0.4701	0.815
		Side 2	0.3727	0.815
		Side 3	0.3595	0.815
		Side 4	0.3358	0.815
		Top	0.2886	0.815

Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
115.15	4	Side 1	0.3901	0.815
		Side 2	0.2981	0.815
		Side 3	0.3092	0.815
		Side 4	0.2820	0.815
		Top	0.2453	0.815



Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
115.15	6	Side 1	0.3238	0.815
		Side 2	0.2534	0.815
		Side 3	0.2504	0.815
		Side 4	0.2313	0.815
		Top	0.2085	0.815

Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
115.15	8	Side 1	0.2558	0.815
		Side 2	0.1953	0.815
		Side 3	0.1873	0.815
		Side 4	0.1606	0.815
		Top	0.2103	0.815

Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
115.15	10	Side 1	0.1944	0.815
		Side 2	0.1662	0.815
		Side 3	0.1484	0.815
		Side 4	0.1442	0.815
		Top	0.1269	0.815



Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
115.15	15	Side 1	0.0532	0.815
		Side 2	0.0498	0.815
		Side 3	0.0452	0.815
		Side 4	0.0441	0.815
		Top	0.0378	0.815

Mobile phone has been charge at zero charge, intermediate charge, full charge and idle mode.

Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result(A/m)				50%Limit (A/m)
			10% charge	50% charge	90% charge	Idle mode	
115.15	0	Side 1	0.5122	0.4893	0.5012	0.2518	0.815
		Side 2	0.4563	0.4605	0.4135	0.2475	0.815
		Side 3	0.4755	0.4472	0.4204	0.2488	0.815
		Side 4	0.3881	0.3355	0.3625	0.2251	0.815
		Top	0.3362	0.3124	0.3045	0.2204	0.815

Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result(A/m)				50%Limit (A/m)
			10% charge	50% charge	90% charge	Idle mode	
115.15	2	Side 1	0.4354	0.4159	0.4260	0.1824	0.815
		Side 2	0.3787	0.3822	0.3432	0.1641	0.815
		Side 3	0.4089	0.3846	0.3615	0.1754	0.815
		Side 4	0.3066	0.2650	0.2864	0.1585	0.815
		Top	0.2757	0.2562	0.2497	0.1376	0.815



Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result(A/m)				50%Limit (A/m)
			10% charge	50% charge	90% charge	Idle mode	
115.15	4	Side 1	0.3614	0.3452	0.3536	0.1257	0.815
		Side 2	0.3030	0.3058	0.2746	0.1069	0.815
		Side 3	0.3517	0.3307	0.3109	0.1196	0.815
		Side 4	0.2575	0.2226	0.2406	0.0942	0.815
		Top	0.2343	0.2177	0.2122	0.0914	0.815

Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result(A/m)				50%Limit (A/m)
			10% charge	50% charge	90% charge	Idle mode	
115.15	6	Side 1	0.2999	0.2865	0.2935	0.1066	0.815
		Side 2	0.2575	0.2599	0.2334	0.0937	0.815
		Side 3	0.2849	0.2679	0.2519	0.1057	0.815
		Side 4	0.2112	0.1826	0.1973	0.0879	0.815
		Top	0.1992	0.1851	0.1804	0.0821	0.815

Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result(A/m)				50%Limit (A/m)
			10% charge	50% charge	90% charge	Idle mode	
115.15	8	Side 1	0.2369	0.2263	0.2319	0.0906	0.815
		Side 2	0.2138	0.2157	0.1937	0.0854	0.815
		Side 3	0.2222	0.2090	0.1964	0.0871	0.815
		Side 4	0.1711	0.1479	0.1598	0.0704	0.815
		Top	0.1534	0.1425	0.1389	0.0683	0.815



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Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result(A/m)				50%Limit (A/m)
			10% charge	50% charge	90% charge	Idle mode	
115.15	10	Side 1	0.1801	0.1720	0.1762	0.0785	0.815
		Side 2	0.1689	0.1704	0.1530	0.0694	0.815
		Side 3	0.1689	0.1588	0.1493	0.0673	0.815
		Side 4	0.1317	0.1139	0.1230	0.0548	0.815
		Top	0.1212	0.1126	0.1097	0.0512	0.815

Magnetic Field Emissions

Operation frequency (kHz)	Test Distance (cm)	Test Position	Probe Measure Result(A/m)				50%Limit (A/m)
			10% charge	50% charge	90% charge	Idle mode	
115.15	15	Side 1	0.0555	0.0571	0.0514	0.0176	0.815
		Side 2	0.0483	0.0460	0.0425	0.0144	0.815
		Side 3	0.0475	0.0484	0.0453	0.0118	0.815
		Side 4	0.0368	0.0335	0.0362	0.0105	0.815
		Top	0.0315	0.0339	0.0330	0.0086	0.815

- End of the Report -



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