



## 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, Guangguang 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

|                      |              |
|----------------------|--------------|
| <b>Test Result :</b> | <b>Pass*</b> |
|----------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above

Kenx. Xu

Kenx Xu  
EMC Laboratory Manager



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## 2 General Information

Power supply: Input:DC5V 2A  
USB Output:DC5V 2A  
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.<br>No.SEA05B04D |
| E-Loader     | SGS          | N/A       | REF.<br>No.SEA06A00  |
| Mobile Phone | SAMSUNG      | SM-G9500  | REF.<br>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 <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).

#### 4.1.1 E.U.T. Operation

##### Operating Environment:

Temperature: 24.8 °C Humidity: 48.5 % RH Atmospheric Pressure: 1010 mbar



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Test Mode Description

| Pre-scan<br>Final test | Mode<br>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.



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#### 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          |



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**Magnetic Field Emissions**

| Operation frequency<br>(kHz) | Test Distance<br>(cm) | Test Position | Probe Measure Result(A/m) |               |               |              | 50%Limit<br>(A/m) |
|------------------------------|-----------------------|---------------|---------------------------|---------------|---------------|--------------|-------------------|
|                              |                       |               | 10%<br>charge             | 50%<br>charge | 90%<br>charge | Idle<br>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<br>(kHz) | Test Distance<br>(cm) | Test Position | Probe Measure Result(A/m) |               |               |              | 50%Limit<br>(A/m) |
|------------------------------|-----------------------|---------------|---------------------------|---------------|---------------|--------------|-------------------|
|                              |                       |               | 10%<br>charge             | 50%<br>charge | 90%<br>charge | Idle<br>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<br>(kHz) | Test Distance<br>(cm) | Test Position | Probe Measure Result(A/m) |               |               |              | 50%Limit<br>(A/m) |
|------------------------------|-----------------------|---------------|---------------------------|---------------|---------------|--------------|-------------------|
|                              |                       |               | 10%<br>charge             | 50%<br>charge | 90%<br>charge | Idle<br>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<br>(kHz) | Test Distance<br>(cm) | Test Position | Probe Measure Result(A/m) |               |               |              | 50%Limit<br>(A/m) |
|------------------------------|-----------------------|---------------|---------------------------|---------------|---------------|--------------|-------------------|
|                              |                       |               | 10%<br>charge             | 50%<br>charge | 90%<br>charge | Idle<br>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<br>(kHz) | Test Distance<br>(cm) | Test Position | Probe Measure Result(A/m) |               |               |              | 50%Limit<br>(A/m) |
|------------------------------|-----------------------|---------------|---------------------------|---------------|---------------|--------------|-------------------|
|                              |                       |               | 10%<br>charge             | 50%<br>charge | 90%<br>charge | Idle<br>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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