

# Lucky Group (H.K.) Limited

# TEST REPORT

**SCOPE OF WORK**

SAR Assessment– 18818

**REPORT NUMBER**

210601005SZN-003

**ISSUE DATE**

01 July 2021

**[REVISED DATE]**

[-----]

**PAGES**

10

**DOCUMENT CONTROL NUMBER**

RF Exposure

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## Test Report

Applicant : Lucky Group (H.K.) Limited  
7755 Irvine Center Drive, Suite 100, Irvine, CA 92618

Sample Description  
Product : Wireless Charging Magic Lamp  
Model No. : 18818

Electrical Rating : Input: DC 12V 2A

Date Received : 01 June 2021  
Date Test Conducted : 01 June 2021 to 25 June 2021

Test Requested : Test for compliance with CFR 47 part 1  
Test Method : Environmental evaluation and exposure limit according  
to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

Test Result : Pass  
Conclusion : When determining of test conclusion, measurement  
uncertainty of tests have been considered.

\*\*\*\*\* End of Page \*\*\*\*\*

**Prepared and Checked By:**



**Ryan**  
**Engineer**

**Approved By:**



**Peter Kang**  
**Sr. Technical Supervisor**  
**Date: 01 July 2021**

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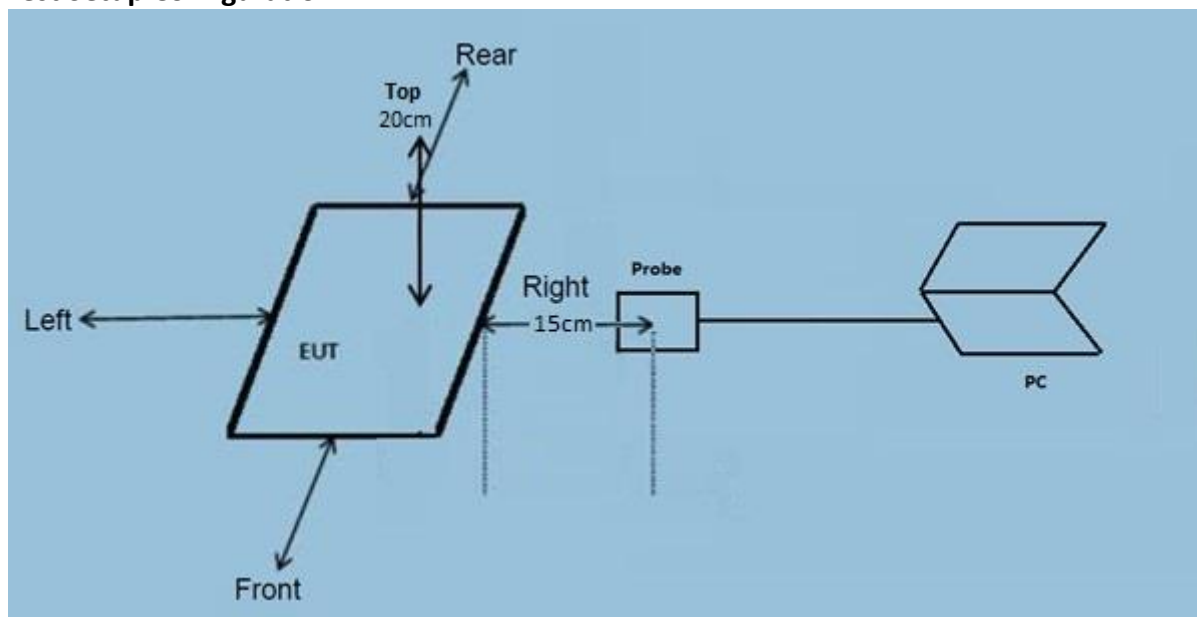
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## Test Report

### Test Setup Configuration



#### Note

- The RF exposure test is performed in the shield room.
- The test distance is between the edge of the charger and the geometric centre of probe.

### Test Equipment List

| Equipment No. | Equipment                            | Manufacturer | Model No. | Serial No. | Cal. Date  | Due Date   |
|---------------|--------------------------------------|--------------|-----------|------------|------------|------------|
| SZ186-04      | Electric and Magnetic Field Analyzer | Narda        | EHP-50F   | 510WY90119 | 2020-07-28 | 2021-07-28 |

**Reference Limit:**

**Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310**

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

**LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)**

| Frequency Range (MHz)                                   | Electric Field strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Average Time (minutes) |
|---------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (A) Limits for Occupational/Controlled Exposure         |                               |                               |                                     |                        |
| 0.3 – 3.0                                               | 614                           | 1.63                          | (100) *                             | 6                      |
| (B) Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                        |
| 0.3 – 1.34                                              | 614                           | 1.63                          | (100) *                             | 30                     |

Note: \* = Plane wave equivalent power density

**Test Result:**

**During test, both the bulb and the mobile handset are being charged.**

**Test Result for Bulb wireless power transmit part:**
**H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT**

| Frequency Range (MHz) | EUT Operation mode | Probe Position Front (A/m) | Probe Position Rear (A/m) | Probe Position Left (A/m) | Probe Position Right (A/m) | Probe Position Top (A/m) | Limits (A/m) |
|-----------------------|--------------------|----------------------------|---------------------------|---------------------------|----------------------------|--------------------------|--------------|
| 0.110-0.205           | 1% Battery Level   | 0.3421                     | 0.1686                    | 0.0798                    | 0.2290                     | 0.2314                   | 1.63         |
| 0.110-0.205           | 50% Battery Level  | 0.3325                     | 0.1656                    | 0.0787                    | 0.2135                     | 0.2453                   | 1.63         |
| 0.110-0.205           | 99% Battery Level  | 0.3675                     | 0.1635                    | 0.0789                    | 0.2312                     | 0.2154                   | 1.63         |
| 0.110-0.205           | Stand-by           | 0.3098                     | 0.1624                    | 0.0667                    | 0.2345                     | 0.2134                   | 1.63         |

**E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT**

| Frequency Range (MHz) | EUT Operation mode | Probe Position Front (V/m) | Probe Position Rear (V/m) | Probe Position Left (V/m) | Probe Position Right (V/m) | Probe Position Top (V/m) | Limits (V/m) |
|-----------------------|--------------------|----------------------------|---------------------------|---------------------------|----------------------------|--------------------------|--------------|
| 0.110-0.205           | 1% Battery Level   | 0.5675                     | 0.0473                    | 0.0678                    | 0.2862                     | 1.1542                   | 614          |
| 0.110-0.205           | 50% Battery Level  | 0.0546                     | 0.0415                    | 0.06875                   | 0.2786                     | 1.2123                   | 614          |
| 0.110-0.205           | 99% Battery Level  | 0.0547                     | 0.0402                    | 0.06432                   | 0.2812                     | 1.2442                   | 614          |
| 0.110-0.205           | Stand-by           | 0.0543                     | 0.0432                    | 0.06578                   | 0.2744                     | 1.2313                   | 614          |

**Test Result for Qi Wireless charging part:**
**H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT**

| Frequency Range (MHz) | EUT Operation mode | Probe Position Front (A/m) | Probe Position Rear (A/m) | Probe Position Left (A/m) | Probe Position Right (A/m) | Probe Position Top (A/m) | Limits (A/m) |
|-----------------------|--------------------|----------------------------|---------------------------|---------------------------|----------------------------|--------------------------|--------------|
| 0.110-0.205           | 1% Battery Level   | 0.7978                     | 0.1677                    | 0.1465                    | 0.1642                     | 0.3201                   | 1.63         |
| 0.110-0.205           | 50% Battery Level  | 0.7878                     | 0.1632                    | 0.1434                    | 0.1434                     | 0.3342                   | 1.63         |
| 0.110-0.205           | 99% Battery Level  | 0.7434                     | 0.1610                    | 0.1234                    | 0.1123                     | 0.3323                   | 1.63         |
| 0.110-0.205           | Stand-by           | 0.6567                     | 0.1602                    | 0.1213                    | 0.1212                     | 0.3423                   | 1.63         |

**E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT**

| Frequency Range (MHz) | EUT Operation mode | Probe Position Front (V/m) | Probe Position Rear (V/m) | Probe Position Left (V/m) | Probe Position Right (V/m) | Probe Position Top (V/m) | Limits (V/m) |
|-----------------------|--------------------|----------------------------|---------------------------|---------------------------|----------------------------|--------------------------|--------------|
| 0.110-0.205           | 1% Battery Level   | 0.9893                     | 1.1123                    | 1.3462                    | 1.2323                     | 2.3134                   | 614          |
| 0.110-0.205           | 50% Battery Level  | 0.9884                     | 1.3214                    | 1.3224                    | 1.1232                     | 2.3431                   | 614          |
| 0.110-0.205           | 99% Battery Level  | 0.9844                     | 1.2451                    | 1.2311                    | 1.1098                     | 2.3434                   | 614          |
| 0.110-0.205           | Stand-by           | 0.8974                     | 1.2123                    | 1.1083                    | 1.1033                     | 2.3232                   | 614          |

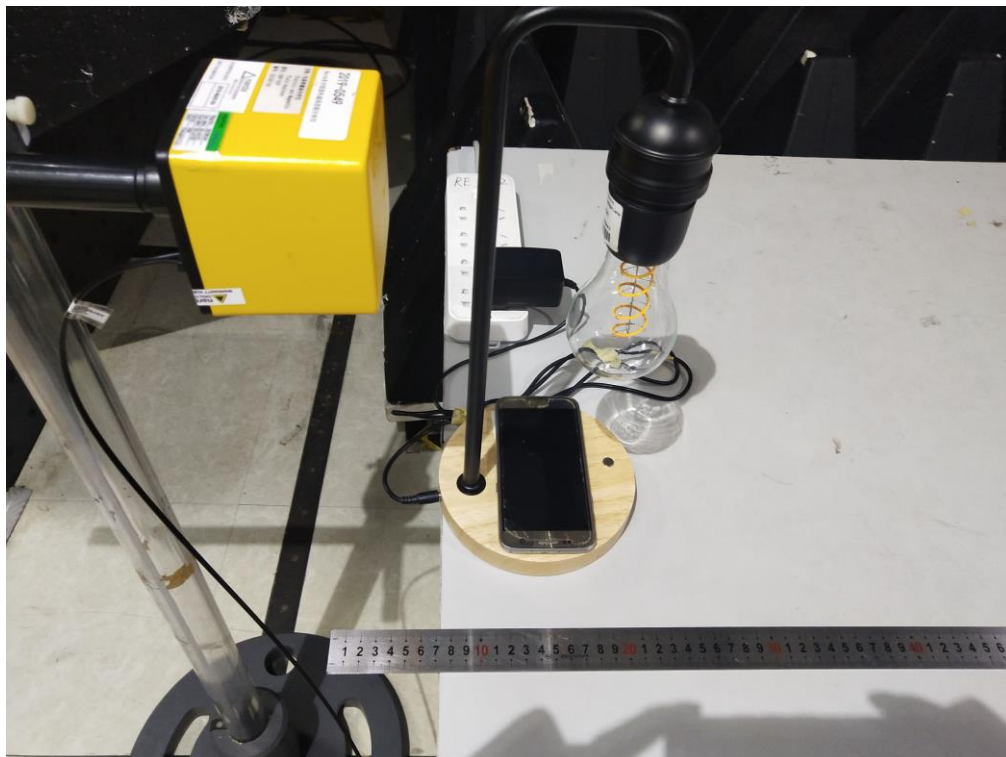
Configuration photo of the test:

H-Field & E-Field Strength test photos

Front-Bulb



Rear-Bulb



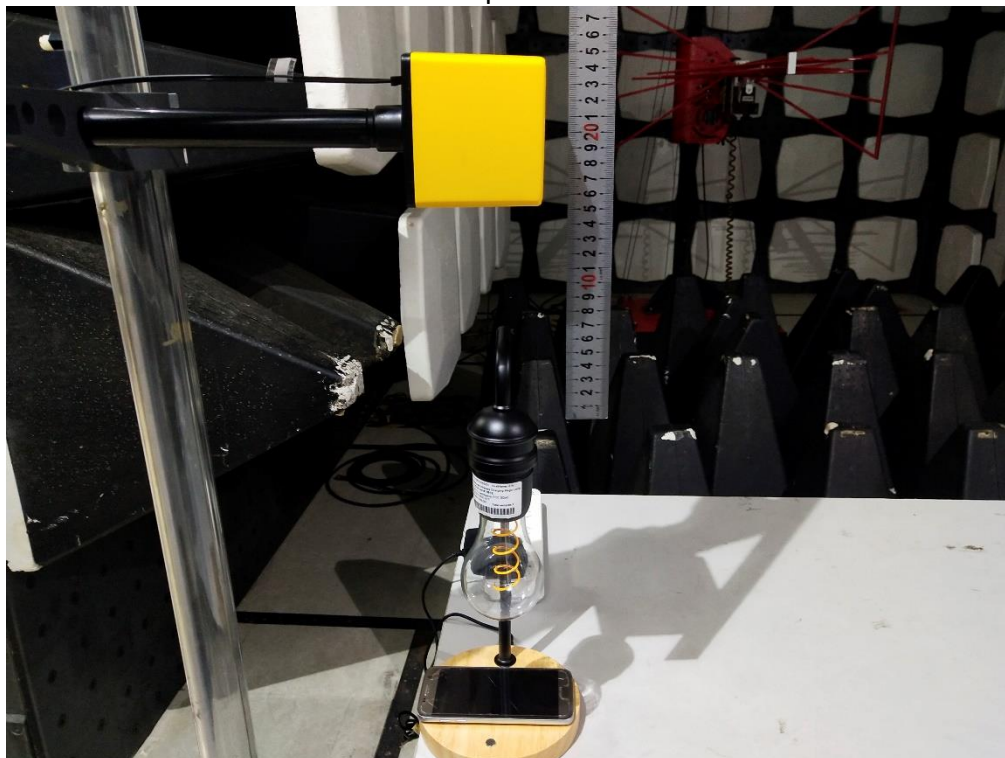
Left-Bulb



Right-Bulb



Top-Bulb



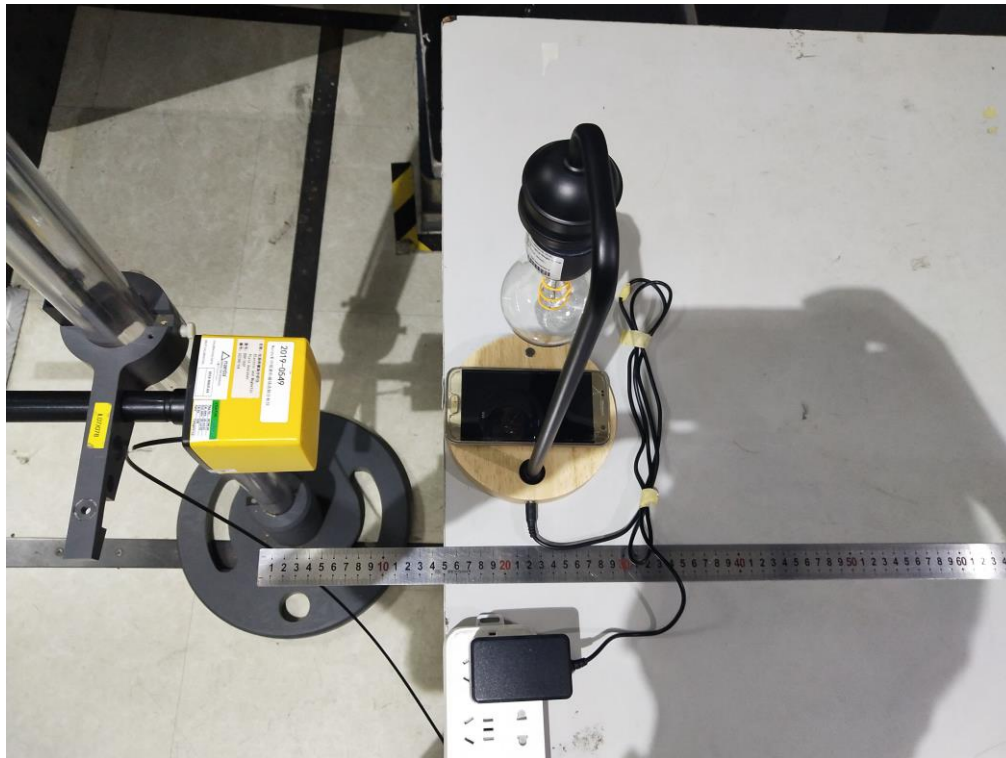
Front-Qi



Rear-Qi



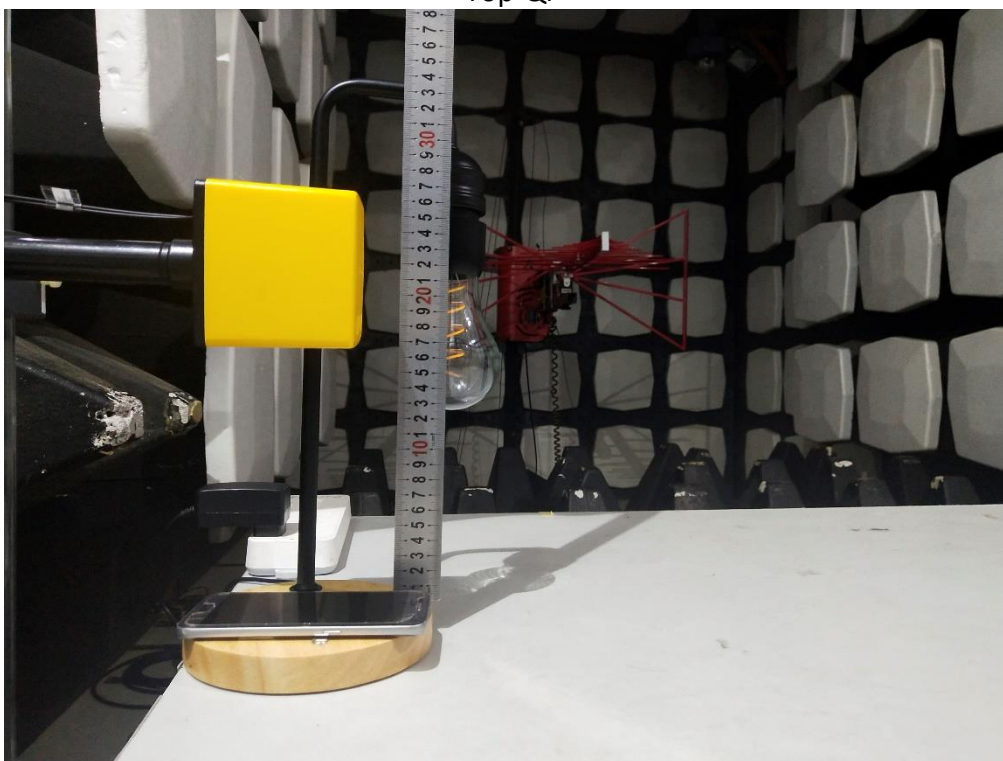
Left-Qi



Right-Qi



Top-Qi



\*\*\*\*\* End of Report\*\*\*\*\*