

Lucky Group (H.K.) Limited

TEST REPORT

SCOPE OF WORK

SAR Assessment– 18818

REPORT NUMBER

210601005SZN-003

ISSUE DATE

01 July 2021

[REVISED DATE]

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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.

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Approved By:

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Engineer

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Sr. Technical Supervisor
Date: 01 July 2021

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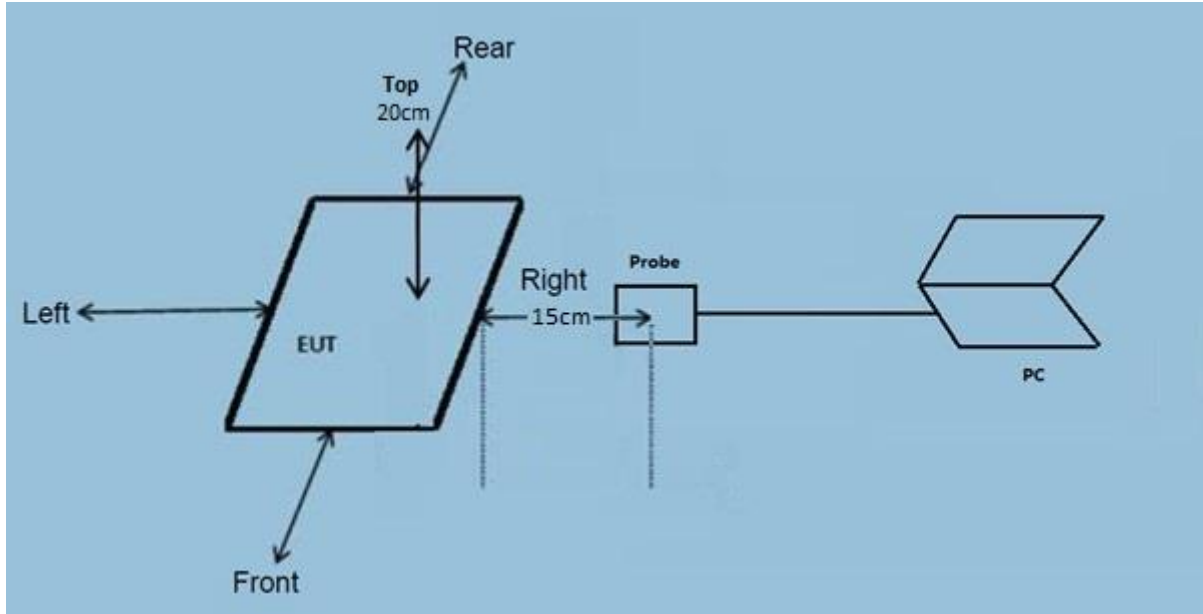
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Test Report

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 ²)	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

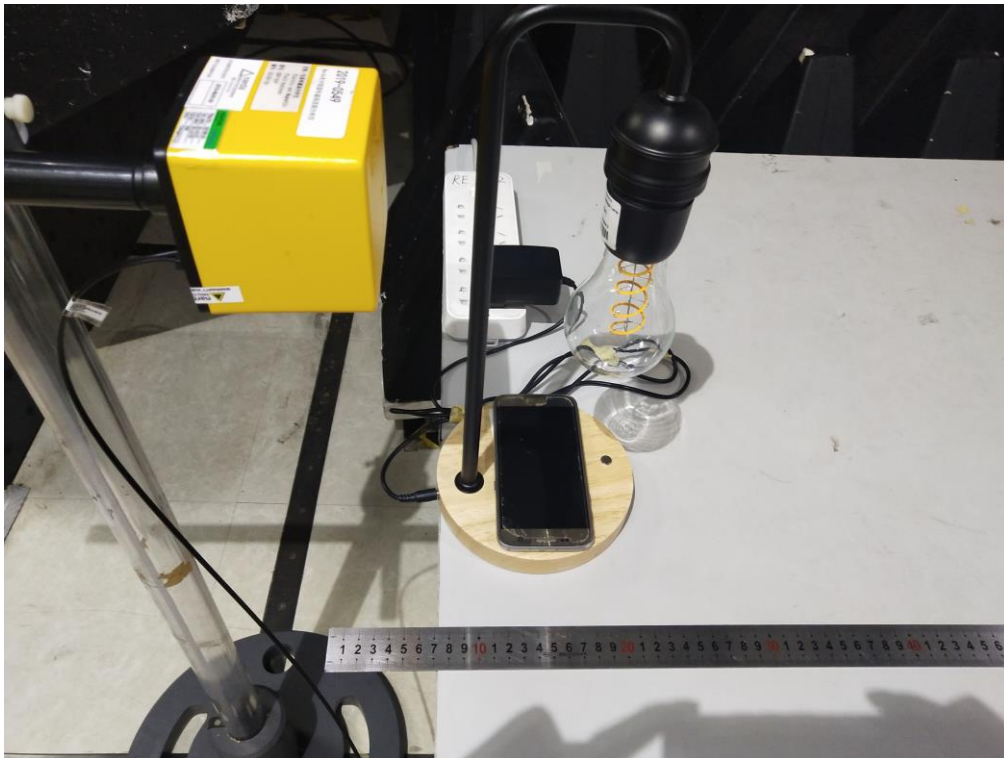
Configuration photo of the test:

H-Field & E-Field Strength test photos

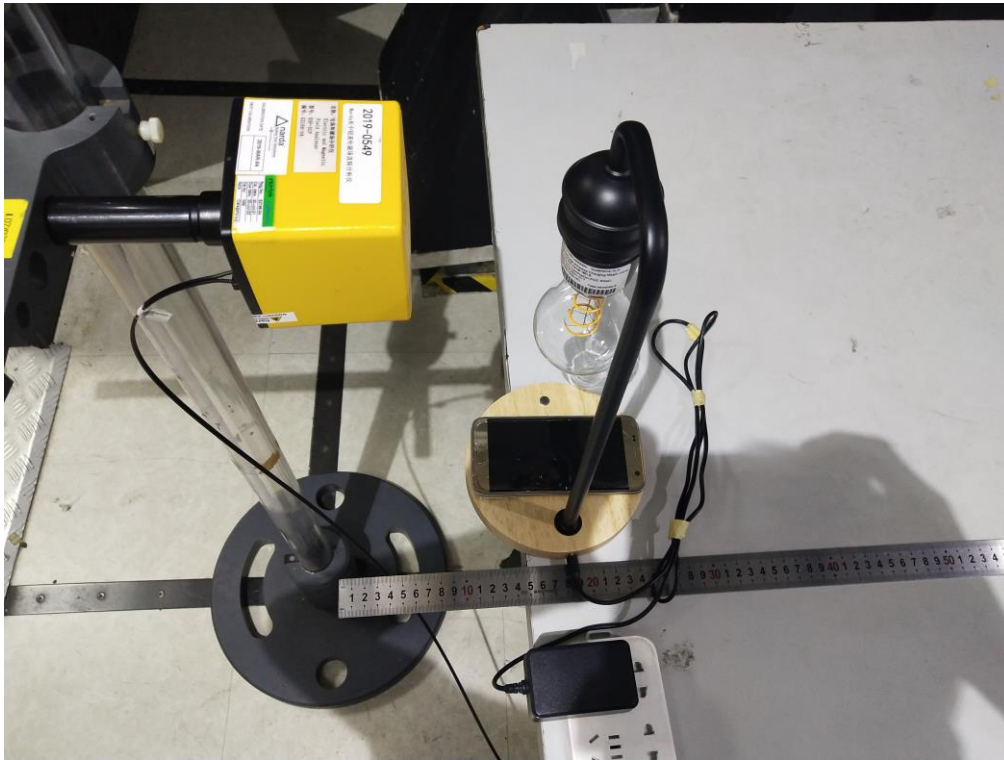
Front-Bulb



Rear-Bulb



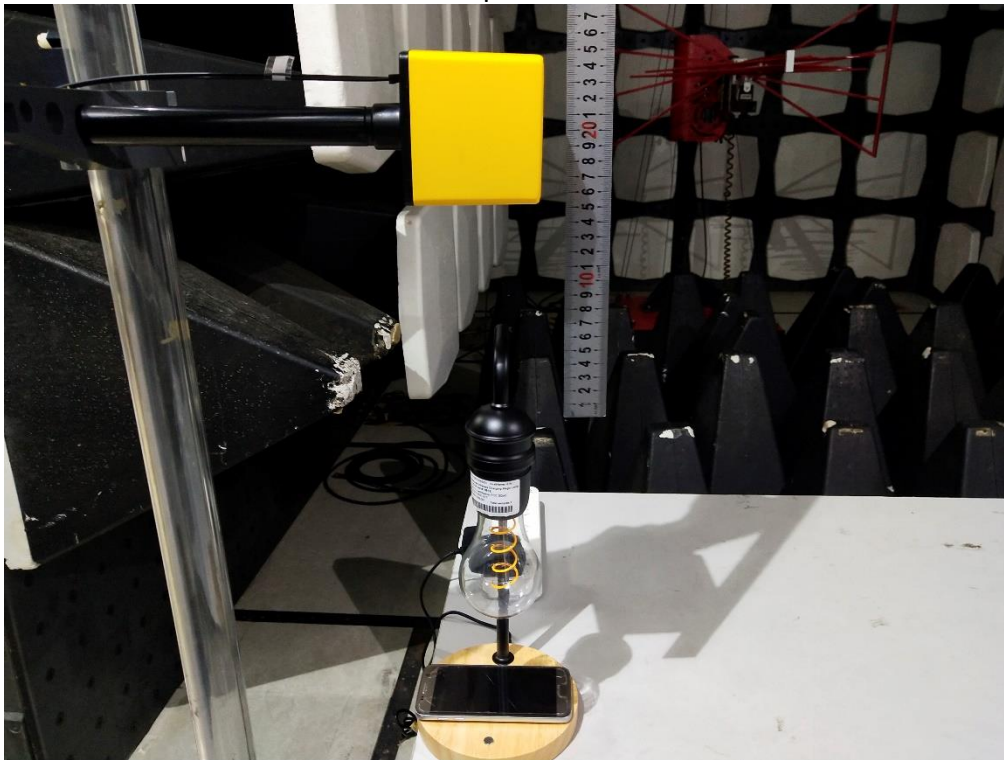
Left-Bulb



Right-Bulb



Top-Bulb



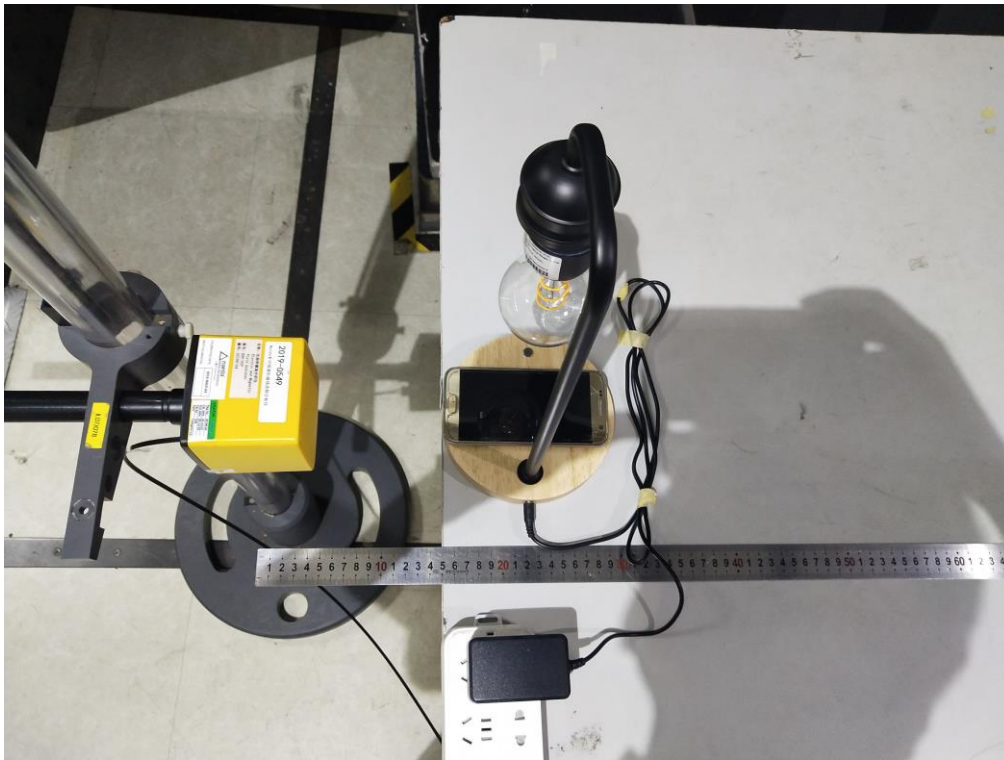
Front-Qi



Rear-Qi



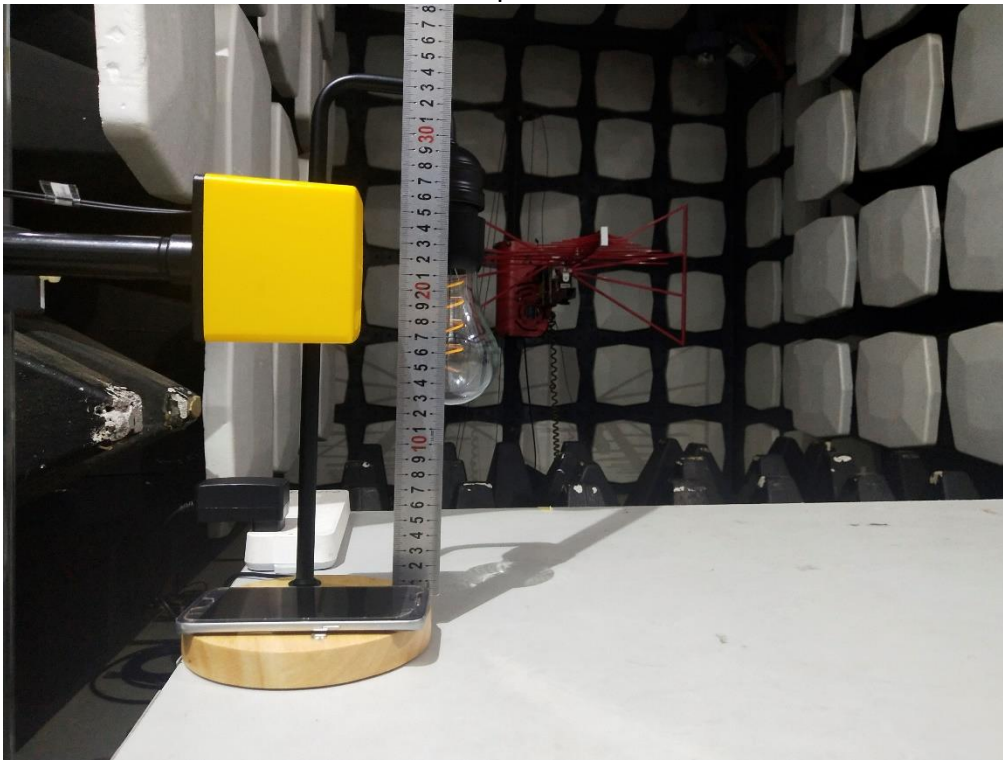
Left-Qi



Right-Qi



Top-Qi



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