

Ottlite Technologies Inc.

TEST REPORT

SCOPE OF WORK

SAR Assessment– B22FS

REPORT NUMBER

220118060SZN-002

ISSUE DATE

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[REVISED DATE]

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PAGES

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DOCUMENT CONTROL NUMBER

RF Exposure


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Test Report

Applicant : Ottlite Technologies Inc.
1715 N Westshore Blvd STE 950 Tampa, FL 33607
United States

Sample Description : LED table lamp
Product Model No. : B22FS

Brand Name : 

Electrical Rating : Input: 12V/2.5A
Wireless Output: 5.0W Max
Output USB-A:5V/2.1A

Date Received : 18 January 2022
Date Test Conducted : 18 January 2022 to 14 February 2022

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 KDB 680106 D01 RF Exposure Wireless Charging App v03r01

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

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Prepared and Checked By:

Approved By:

Vito Pan
Project Engineer

Sewen Guo
Senior Project Engineer
Date: 25 February 2022

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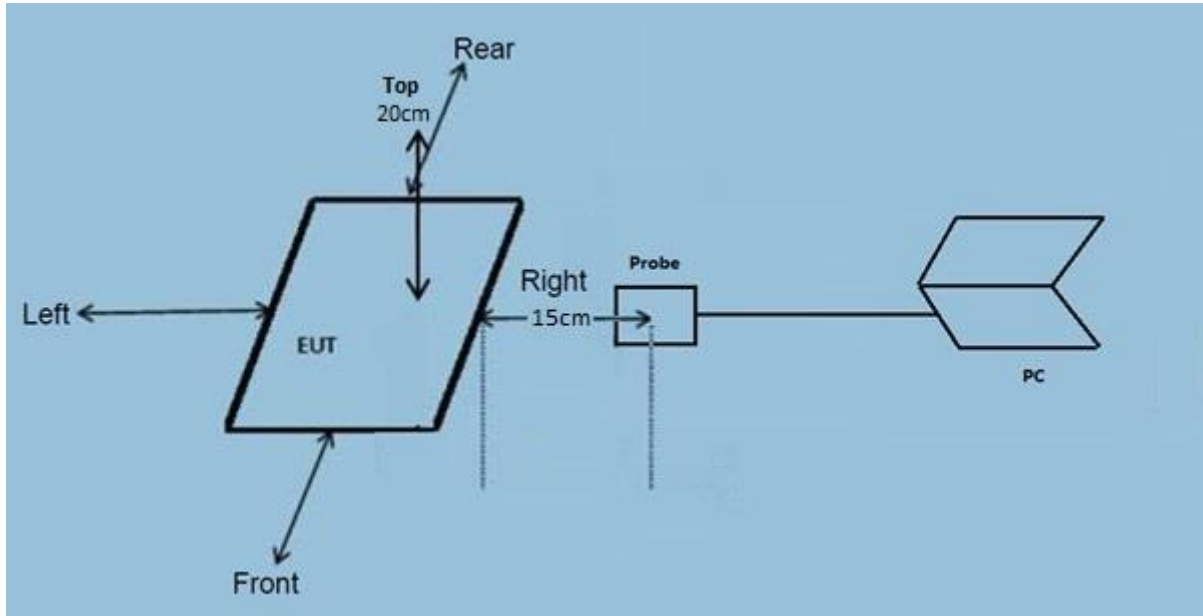
101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen.

Tel: (86 755) 8601 6288

Fax: (86 755) 8601 6751

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 | 2021-07-20 | 2022-07-20 |

This product was tested in the following configuration:

| Description | Manufacturer | Detail |
|--------------|--------------------------------|---|
| Mobile phone | NIL (Provided by Intertek) | Manufacturer: Samsung Model: S7 |
| USB cable | NIL (Provided by applicant) | Unshielded, Length 100cm |
| Adapter | NIL (Provided by applicant) | Model: K36C120250U Input: 100-240Vac 50/60Hz 0.9A Output: DC 12.0V/2.5A |

Justification

| Pertest mode | Description |
|--------------|---|
| Mode 1 | Standby mode |
| Mode 2 | Mobile phone is charging at 1% battery power |
| Mode 3 | Mobile phone is charging at 50% battery power |
| Mode 4 | Mobile phone is charging at 99% battery power |

The EUT was powered by an adapter with 120V/60Hz input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. and only the worst-case data was shown in this report.

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, the mobile handset is being charged.

Worst Case Operating Mode: Mode 2

Test Result for 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) |
|-----------------------|--------------------|----------------------------|---------------------------|---------------------------|----------------------------|--------------------------|--------------|
| 0.112-0.205 | 1% Battery Level | 0.0567 | 0.0126 | 0.0559 | 0.0203 | 0.0074 | 1.63 |
| 0.112-0.205 | 50% Battery Level | 0.0559 | 0.0214 | 0.0200 | 0.0200 | 0.0214 | 1.63 |
| 0.112-0.205 | 99% Battery Level | 0.0555 | 0.0541 | 0.0544 | 0.0544 | 0.0541 | 1.63 |
| 0.112-0.205 | Stand-by | 0.0153 | 0.0153 | 0.0126 | 0.0151 | 0.0151 | 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) |
|-----------------------|--------------------|----------------------------|---------------------------|---------------------------|----------------------------|--------------------------|--------------|
| 0.112-0.205 | 1% Battery Level | 1.3686 | 0.9300 | 1.1466 | 1.2878 | 0.6554 | 614 |
| 0.112-0.205 | 50% Battery Level | 1.1483 | 0.6326 | 0.5307 | 0.5307 | 0.4899 | 614 |
| 0.112-0.205 | 99% Battery Level | 1.1466 | 0.9411 | 1.1214 | 1.1214 | 0.9411 | 614 |
| 0.112-0.205 | Stand-by | 0.9315 | 0.8093 | 0.9315 | 0.9300 | 0.9214 | 614 |

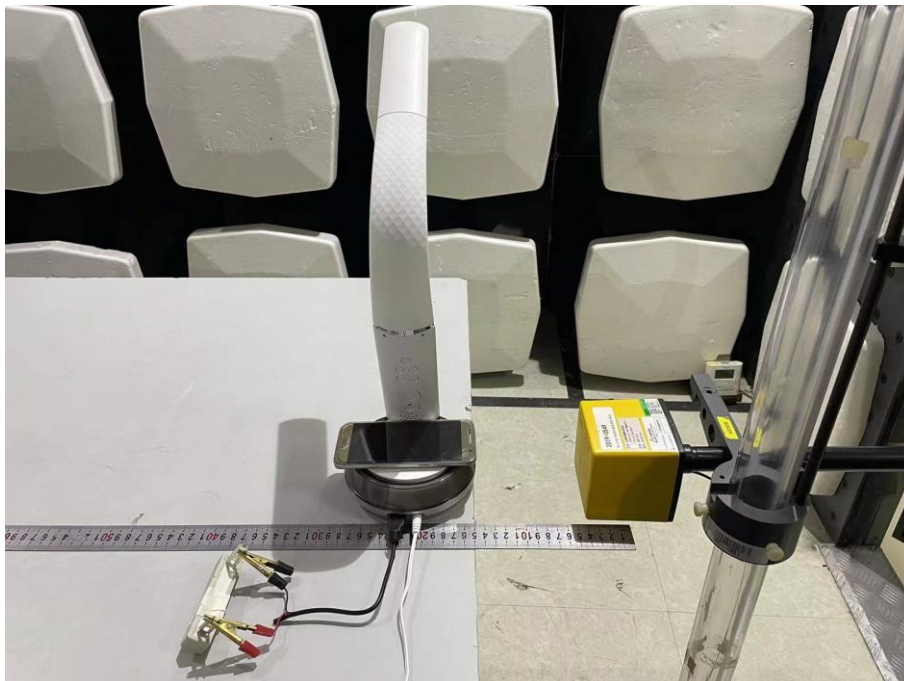
Configuration photo of the test:

H-Field & E-Field Strength test photos

Front



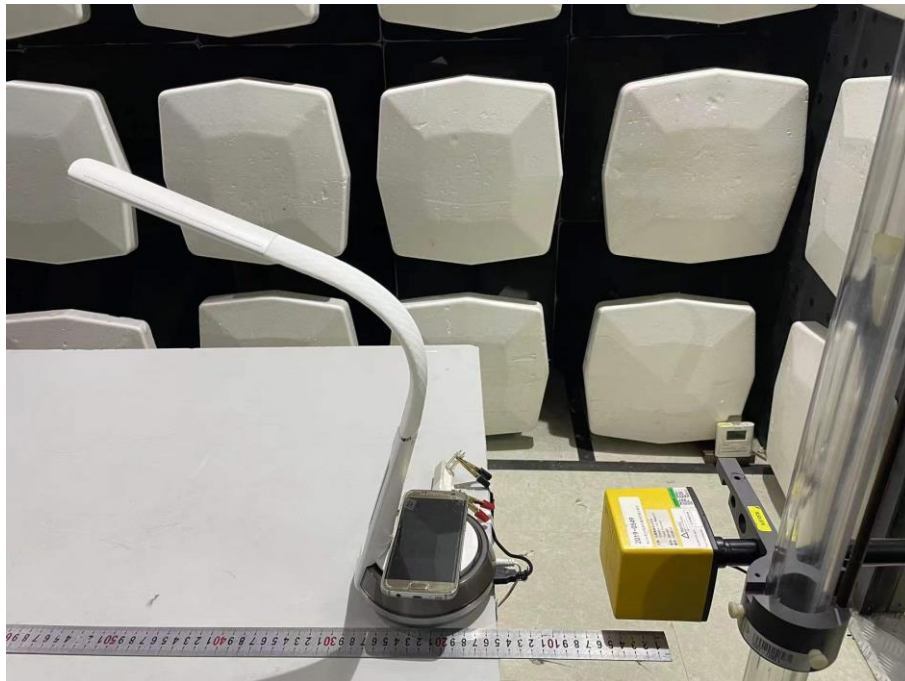
Rear



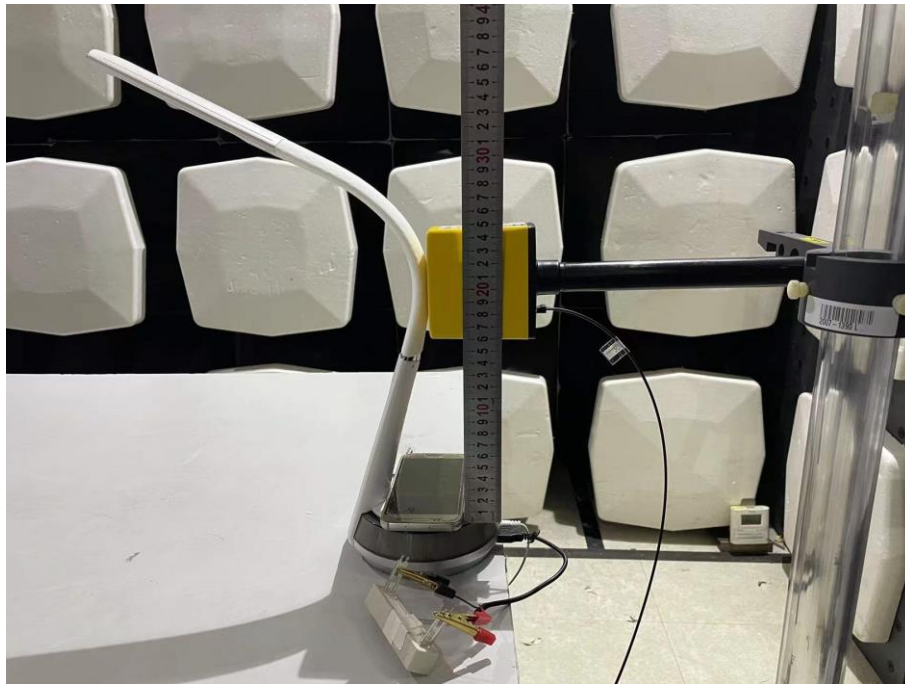
Left



Right



Top



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