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OttLite Technologies, Inc.

TEST REPORT

SCOPE OF WORK
SAR Assessment– X9FS

REPORT NUMBER
200421048SZN-002

ISSUE DATE **[REVISED DATE]**
13 May 2020 [----------]

PAGES
6

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		
Product	:	LED table lamp
Model No.	:	X9FS
Brand Name	:	OttLite
Electrical Rating	:	Input: DC 12V, 2500mA from adapter Wireless charging output: DC5V, 1A USB port output: DC5V, 2.1A
Date Received	:	21 April 2020
Date Test Conducted	:	21 April 2020 to 10 May 2020
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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Prepared and Checked By:

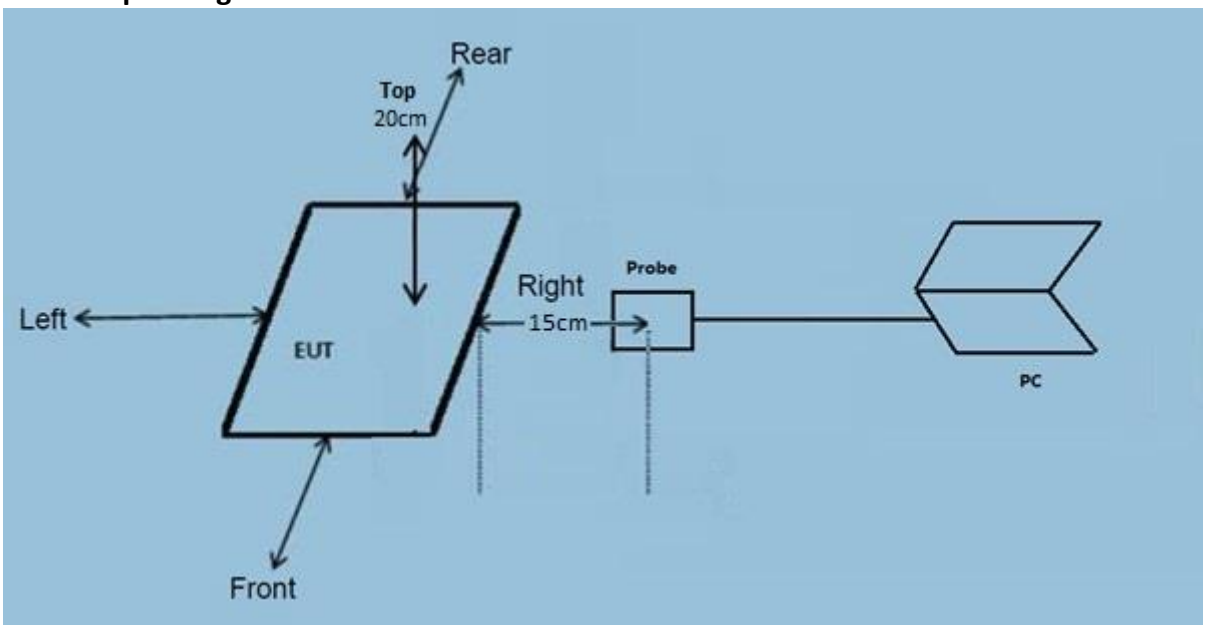
Jeff Liang
Engineer

Approved By:

Kidd Yang
Technical Supervisor
Date: 13 May 2020

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

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Electric and Magnetic Field Analyzer	EHP-50F	Narda	2019-06-27	2020-06-27

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:
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

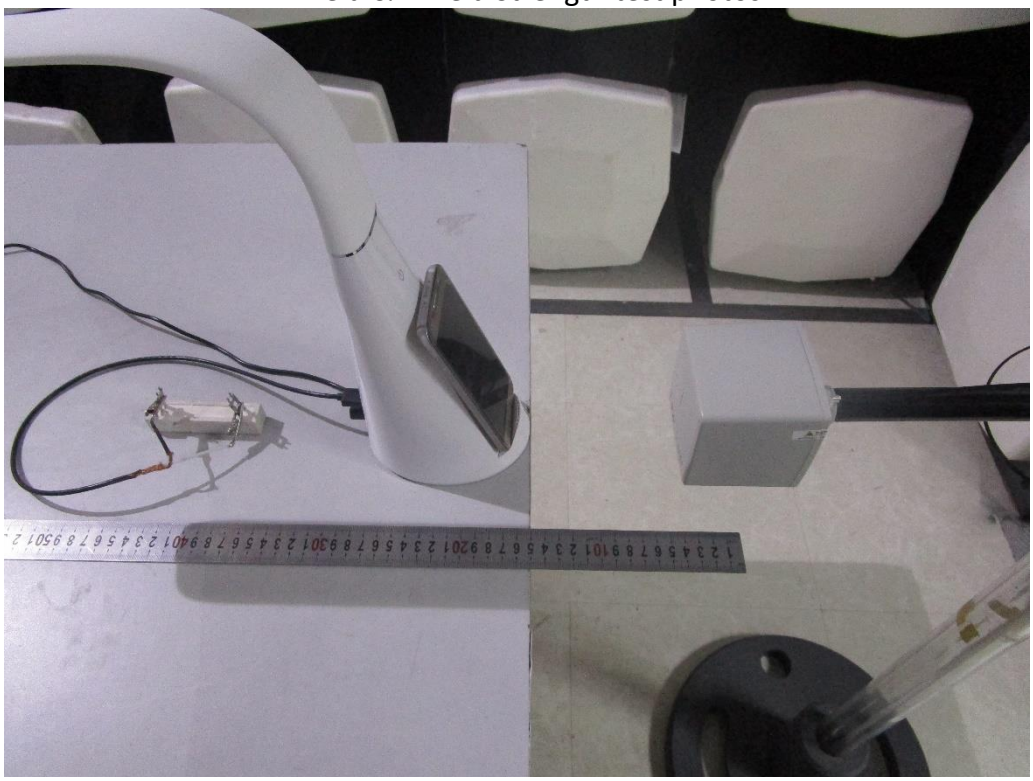
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.110-0.205	1% Battery Level	0.0521	0.0648	0.0521	0.0659	0.0599	1.63
0.110-0.205	50% Battery Level	0.0511	0.0642	0.0522	0.0668	0.0592	1.63
0.110-0.205	99% Battery Level	0.0519	0.4644	0.0531	0.0664	0.0608	1.63
0.110-0.205	Stand-by	0.0498	0.0480	0.0449	0.0451	0.0435	1.63

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

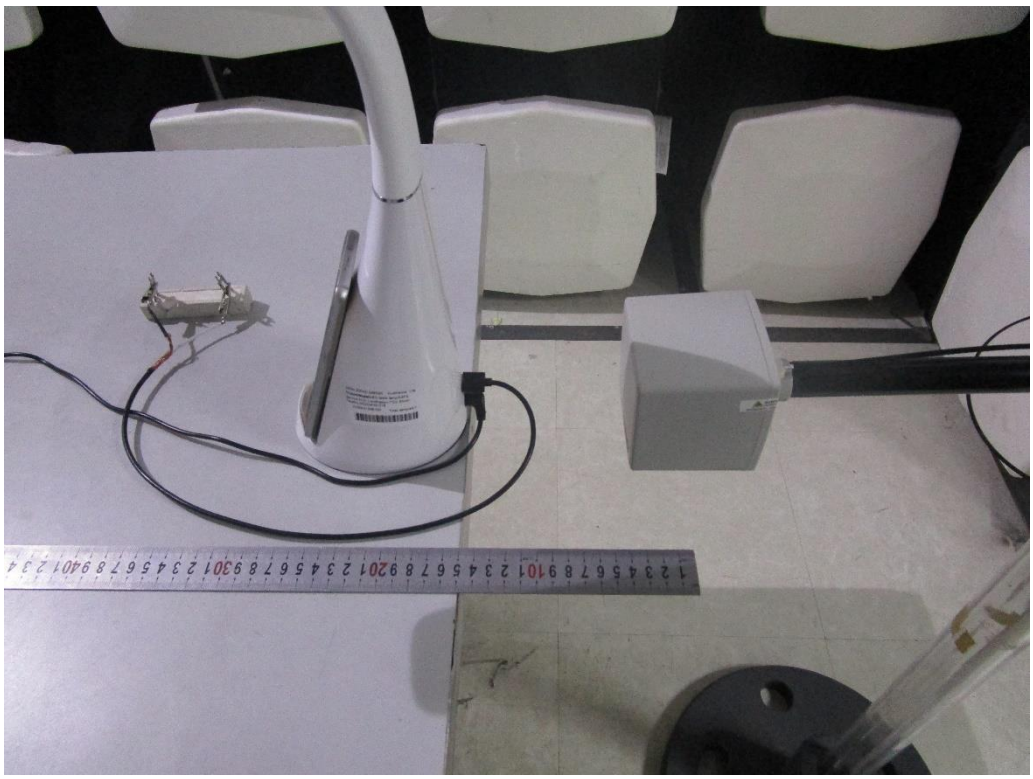
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.110-0.205	1% Battery Level	0.7265	0.3768	0.6602	0.5988	0.4724	614
0.110-0.205	50% Battery Level	0.7260	0.3755	0.6598	0.5679	0.4711	614
0.110-0.205	99% Battery Level	0.7235	0.3747	0.6601	0.5663	0.4714	614
0.110-0.205	Stand-by	0.4088	0.4501	0.4208	0.4681	0.4120	614

Configuration photo of the test:

H-Field & E-Field Strength test photos



Front



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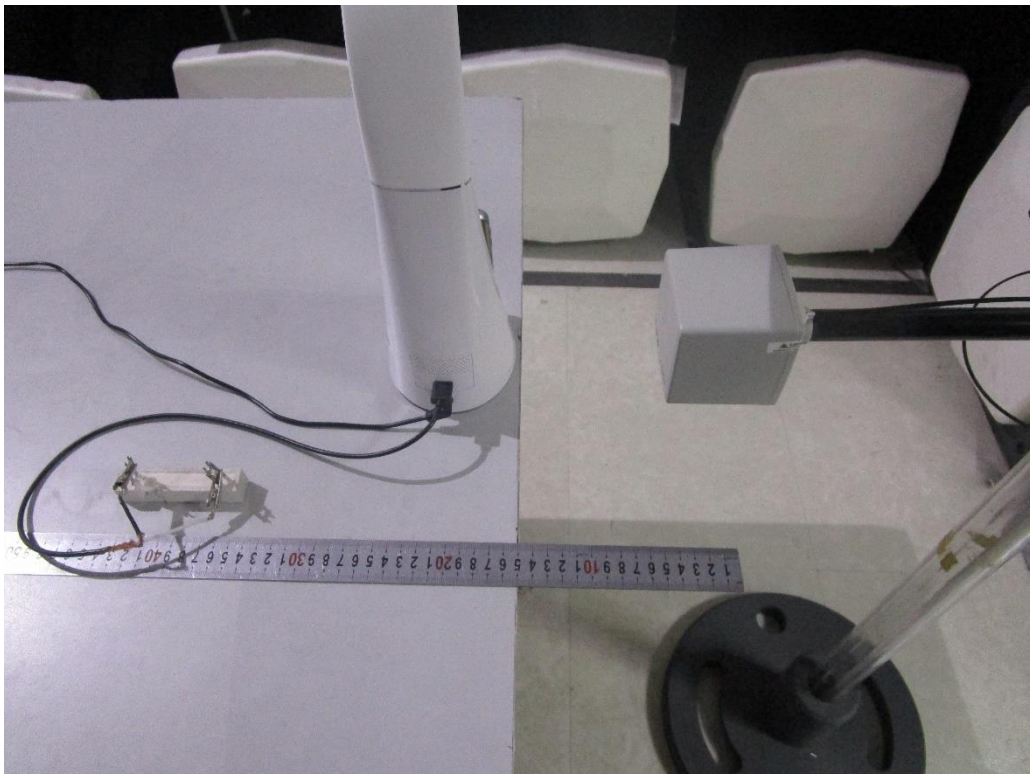

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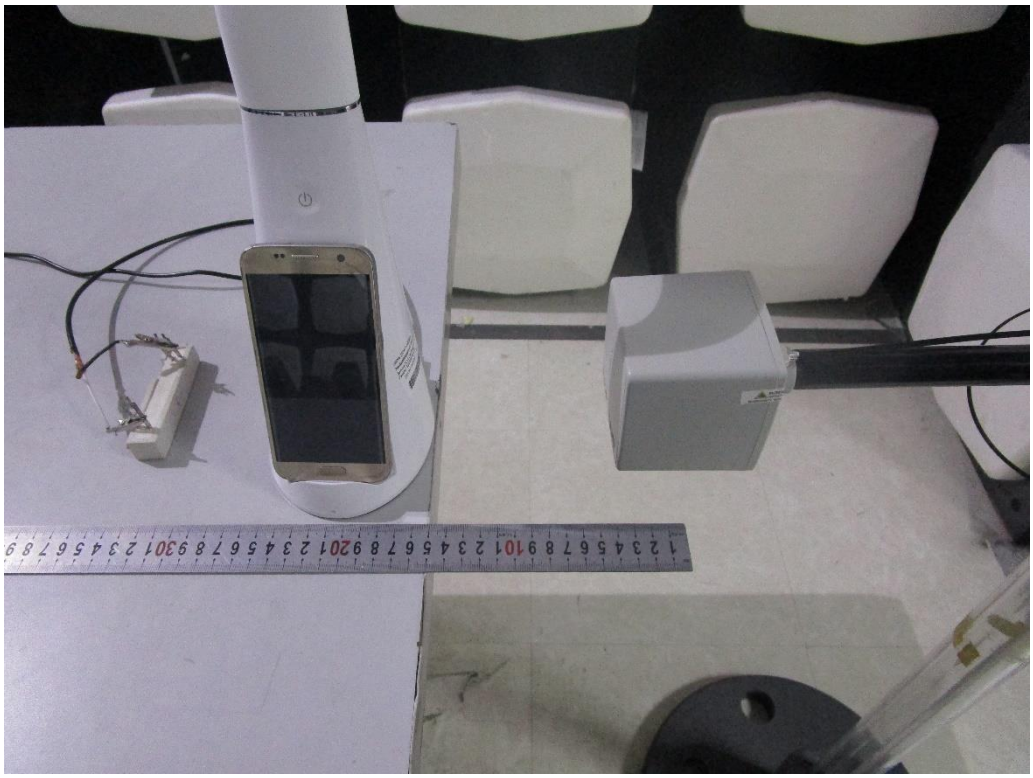

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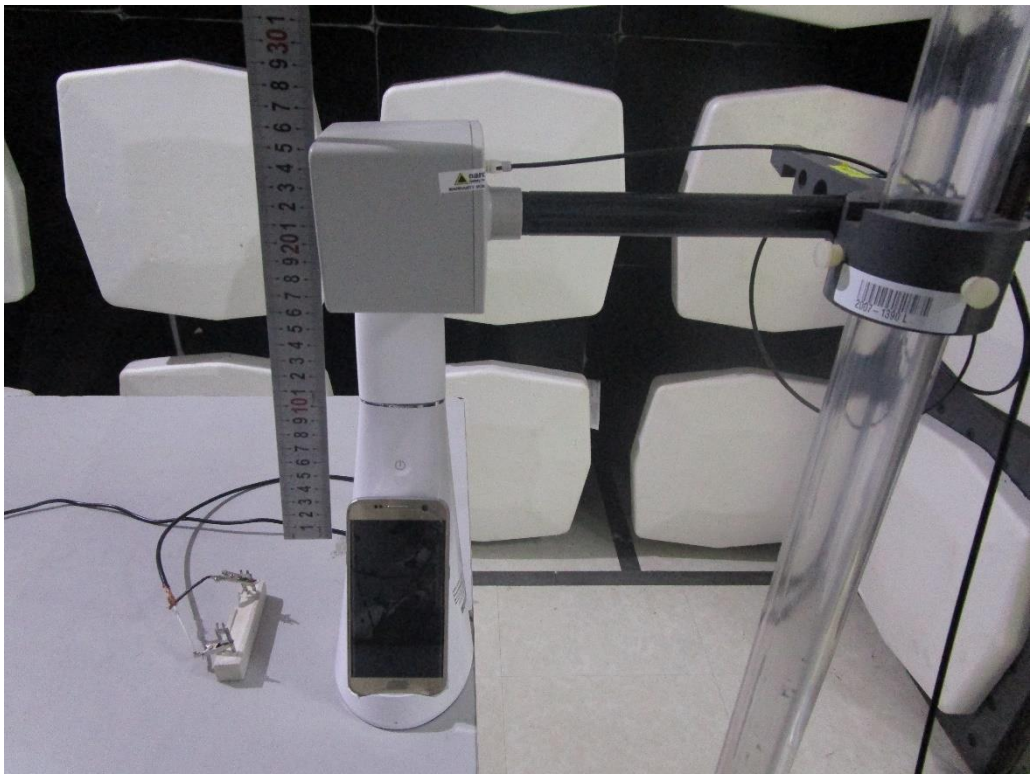

Top

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