

Report No.: EED32K00216402 Page 1 of 8

RF Exposure Evaluation Report

Product : led table lamp

Trade mark : Ottlite

Model/Type reference : M2A

Serial Number : N/A

Report Number : EED32K00216402

FCC ID : 2AI7B-M2A1

Date of Issue : Apr. 30, 2019

47 CFR Part 1.1307

Test Standards : 47 CFR Part 1.1310

KDB 447498 D01v06

Test result : PASS

Prepared for:

OttliteTechnologies Inc.
220 West 7th Avenue, STE 100 Tampa, FL 33602 USA

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Page 2 of 8

Report No.: EED32K00216402

2 Version

Version No.	Date	9	Description	
00	Apr. 30, 2019		Original	
7	(5)	130		
	(5)	(6)		6

















































































Page 3 of 8

Report No. : EED32K00216402

3 Contents

5 Contents			Page
1 COVER PAGE			 1
2 VERSION			 2
3 CONTENTS	(~~~)		 3
4 GENERAL INFORMATION			 4
4.1 CLIENT INFORMATION			 4
4.2 GENERAL DESCRIPTION OF EUT 4.3 PRODUCT SPECIFICATION SUBJECT			
4.4 TEST LOCATION			
4.5 DEVIATION FROM STANDARDS			
4.6 ABNORMALITIES FROM STANDARD 4.7 OTHER INFORMATION REQUESTED			
5 RF EXPOSURE EVALUATION			 6
5.1 RF Exposure Compliance Rec	QUIREMENT	(0)	 6
5.1.1 Limits			 6
5.1.2 Test Procedure 5.1.3 EUT RF Exposure Evaluati			
PHOTOGRAPHS OF EUT CONSTRU			



















































4 General Information

4.1 Client Information

Applicant:	OttliteTechnologies Inc.			
Address of Applicant:	220 West 7th Avenue, STE 100 Tampa, FL 33602 USA			
Manufacturer:	Shenzhen Feihe Electronics Co., Ltd			
Address of Manufacturer:	3/F, Bldg 3, Hongfa Innovative Park, Jiuwei, Bao'an district, Shenzhen, China			
Factory:	Shenzhen Feihe Electronics Co., Ltd			
Address of Factory:	3/F, Bldg 3, Hongfa Innovative Park, Jiuwei, Bao'an district, Shenzhen, China			

4.2 General Description of EUT

Product Name:	led table lamp		
Model No.(EUT):	M2A		(2)
Trade Mark:	Ottlite	(6,1)	(0)
EUT Supports Radios application	Bluetooth 2.1+EDR, 2402-2480MHz		

4.3 Product Specification subjective to this standard

Frequency Range:	2402-2480M	lHz				
Test Power Grade:	2(manufacturer declare)					
Test Software of EUT:	Eclipse Mars.1 Release(manufacturer declare)					
Antenna Type:	Printed Ante	nna	-6-			
Antenna Gain:	0dBi	$(\mathcal{C}_{\mathcal{L}})$ $(\mathcal{C}_{\mathcal{L}})$ $(\mathcal{C}_{\mathcal{L}})$	0			
Power Supply:	Adapter:	Model: TY1200200A1mn Input: AC 100-240V, 50/60Hz, 0.8A Output: 12.0V2.0A				
Max Conducted Peak	-2.938dBm					
Output Power:	The Max Conducted Peak Output Power data refer to the report EED32K00216401					
AC/DC ADAPTER:	185cm(Unshielded)					
AUX in Line:	83.5cm(shie	lded)				
Hardware Version:	V1.0(manufa	acturer declare)	10.7			
Firmware version:	V3.2(manufa	acturer declare)	3			
Sample Received Date: Aug. 09, 2018						
Sample tested Date:	Aug. 09, 201	18 to Dec. 28, 2018				
Remark: The tested sample	e(s) and the sam	ple information are provided by the client.				
7 7 7 7 7	7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				











Page 5 of 8

Report No.: EED32K00216402

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.













































































5 RF Exposure Evaluation

Report No.: EED32K00216402

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	
(A) Lim	its for Occupational	/Controlled Exposure	es		
0.3–3.0	614 1842/f	1.63 4.89/f	*(100) *(900/f²)	6	
30–300	61.4	0.163	1.0 f/300	6	
1500-100,000			5	6	
(B) Limits	for General Populati	on/Uncontrolled Exp	osure		
0.3–1.34	614	1.63	*(100)	30	
1.34–30	824/f	2.19/f	*(180/f ²)	30	
30–300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the centre of radiation of the antenna

EIRP = P*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.











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Page 7 of 8

Report No.: EED32K00216402

5.1.3 EUT RF Exposure Evaluation

Antenna Gain: 0dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

200	Channel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm²)	Limit (mW/cm²)	Result
2	Highest	2480	-2.938	0	-2.938	0.508	20	0.0001	1.0	Pass































Report No.: EED32K00216402 Page 8 of 8

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00216401 for EUT external and internal photos.

*** End of Report ***

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