

RF Exposure Evaluation Report

Product : Smart LED Table Light
Trade mark : N/A
Model/Type reference : TB1, TB2
Serial Number : N/A
Report Number : EED32Q80830303
FCC ID : 2A3MATB
Date of Issue : Oct. 08, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

LEPRO INNOVATION INC

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Prepared by:

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1 Version

Version No.	Date	Description
00	Oct. 08, 2024	Original

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3 General Information

3.1 Client Information

Applicant:	LEPRO INNOVATION INC
Address of Applicant:	3651 Lindell Road Suite D1048, Las Vegas, NV 89103, USA
Manufacturer:	LEPRO INNOVATION INC
Address of Manufacturer:	3651 Lindell Road Suite D1048, Las Vegas, NV 89103, USA
Factory:	Foshan Yunlu Lighting Factory
Address of Factory:	No.1, Jiebei Road, Nanhai National Eco-industrial Zone, Danzao Town, Nanhai District, Foshan City, Guangdong Province, P.R.China

3.2 General Description of EUT

Product Name:	Smart LED Table Light
Model No.:	TB1, TB2
Test Model No.:	TB1
Trade mark:	N/A

3.3 Product Specification subjective to this standard

Frequency Range:	BLE: 2402MHz~2480MHz 2.4G Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz									
Modulation Type:	BLE: GFSK 2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK)									
Test Power Grade:	Default									
Test Software of EUT:	EspRFTTestTool_v3.6_Manual									
Antenna Type:	PCB Antenna									
Antenna Gain:	4.54 dBi									
Test Voltage:	DC 5V									
Number of prototypes:	EED32Q80830301 EED32Q80830302									
Sample Received Date:	Jul. 01, 2024									
Sample tested Date:	Jul. 01, 2024 to Sep. 25, 2024									
Remark: Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. Model No.: TB1, TB2 Both prototypes have been tested, the following model numbers have same electrical, PCB and layout, only the model name, TB1and TB2 are different for marketing requirements. See below for details.										
<table><tr><td>Model</td><td>TB1</td><td>TB2</td></tr><tr><td>Electrical</td><td colspan="2">Same</td></tr><tr><td>PCB Layout</td><td colspan="2">Same</td></tr></table>		Model	TB1	TB2	Electrical	Same		PCB Layout	Same	
Model	TB1	TB2								
Electrical	Same									
PCB Layout	Same									

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure Evaluation**For Stand alone:****For Bluetooth LE:**

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2480	20	3.75	4.5400	6.14	4.1115	3060	0.0013	Pass

For 2.4G Wi-Fi:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2462	20	14.62	4.5400	17.01	50.2343	3060	0.0164	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP=EIRP-2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm
- ⑥ The test data please refer to the report of EED32Q80830301, EED32Q80830302 and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***