



## RF Exposure Evaluation Report

**Report Reference No.**..... : **MTEB23040087-H**

**FCC ID**..... : **2A792-LC-TLXL**

Compiled by

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Date of issue..... : April 12,2023

**Representative Laboratory Name.** : **Shenzhen Most Technology Service Co., Ltd.**

Address..... : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
Nanshan, Shenzhen, Guangdong, China.

**Applicant's name**..... : **Lume Cube, Inc.**

Address..... : 2231 Rutherford Rd Suite 100 Carlsbad, CA 92008 United States

**Test specification/ Standard**..... : **47 CFR Part 1.1307**  
**47 CFR Part 2.1093**

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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**Test item description**..... : RGB Tube Light

Trade Mark ..... : N/A

Manufacturer..... : Shenzhen Lineng Technology Co., Ltd

Model/Type reference..... : LC-TLXL

Listed Models ..... : LC-TLMINI

Modulation Type..... : GFSK

Operation Frequency..... : From 2402MHz to 2480MHz

Hardware Version..... V1.0

Software Version..... V1.0

Rating..... : DC 8\*3.7V(by Batteries)  
DC 5V

Result..... : PASS

# TEST REPORT

Equipment under Test : RGB Tube Light

Model /Type : LC-TLXL

Listed Models : LC-TLMINI

Remark : Only the model name and appearance are different

Applicant : Lume Cube, Inc.

Address : 2231 Rutherford Rd Suite 100 Carlsbad, CA 92008 United States

Manufacturer : Shenzhen Lineng Technology Co., Ltd

Address : 6th floor, NO.B Dawei Business Shikong Building, West Jianshe Road, Minzhi Longhua District, Shenzhen

<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.  
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023.04.12	Initial Issue	Alisa Luo

## 2. SAR Evaluation

### 2.1 RF Exposure Compliance Requirement

#### 2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 2.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$   
 $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

2.1.3 EUT RF Exposure

Measurement Data

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-2.886	-2.886 ± 1	-1.886
Middle(2441MHz)	-2.353	-2.353 ± 1	-1.353
Highest(2480MHz)	-2.040	-2.040 ± 1	-1.040

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest (2480MHz)	-2.040	-1.040	0.79	025	3.0	Yes

.....THE END OF REPORT.....