

Applicant Name: Kinglumi Co., Ltd

Applicant Address: First Floor, Unit 1, Building 1, Factory Building, West Side of Songbai Highway, North Side of JiheExpressway Interchange, Tangtou Community Shivan Street Bao'an District Shenzhen

Test item: LED Track light

Model / Type Reference: 61187.8XX, 61187.8XX.1, 61188.8XX, 61190.8XX, 61190.8XX.1, 61191.8XX, 61189.8XX, 61192.8XX

FCC ID: 2A8BD-61191

Date of Issue: 2025-06-12

Testing Laboratory: LCTECH Guangdong Testing Services Co., Ltd.
2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

Test Specification: KDB 447498 D01 General RF Exposure Guidance v06

Test Result: Passed

Compiled by:

Reviewed by:

2025-06-12 Rex He

Rex He

2025-06-12 Alan Tian

Alan Tian

Date

Name

Signature

Date

Name

Signature

Remark:

N/A

The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of the examination of the product sample submitted by the applicant. A general statement concerning the quality of the products from the series manufacture cannot be derived therefore.

RF Exposure Evaluation

Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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

f = frequency in MHz

Friis transmission formula: $Pd = (P_{out} * G) / (4 * \pi * r^2)$

Where

Pd = power density in mW/cm², **P_{out}** = output power to antenna in mW;

G = gain of antenna in linear scale, **π** = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data b in

Bluetooth and wireless functions individually.

Test Result of RF Exposure Evaluation

BLE mode

Channel	Output power to antenna(dBm)	Output power to antenna(mW)	Power Density at R=20cm (mW/cm2)	Limit (mW/cm2)	Result
2440MHz	-4.672	0.341	0.00016	1.0	PASS

EDR mode

Channel	Output power to antenna(dBm)	Output power to antenna(mW)	Power Density at R=20cm (mW/cm2)	Limit (mW/cm2)	Result
2441MHz	-4.96	0.319	0.00015	1.0	PASS

The RF function of the product can only be used in one mode at a time, so there is no need for co-assessment.

Remark: antenna gain=2.4dBi

The max power density is less than MPE exempt limit, so it is compliance.