

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, Shiyan Street, Bao'an District, Shenzhen City, Guangdong, China.

Test item: LED Track light

Model / Type Reference: 61193.XXX, 61194.XXX, 61195.XXX, 61196.XXX, 61197.XXX, 61198.XXX, 61246.8XX, 61246.8XX.1, 61247.8XX, 61248.8XX, 61249.8XX, 61249.8XX.1, 61250.8XX, 61251.8XX

FCC ID: 2A8BD-61196XXX

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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

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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 GeneralPopulation/UncontrolledExposure				
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: $Pd = (Pout * G) / (4 * \pi * r^2)$

Where

Pd =power density in mW/cm², **Pout**= output power to antenna in mW;

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

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

Pd is the limit of MPE, 1mW/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
2402MHz	0.861	1.219	0.00041	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
2480MHz	4.399	2.753	0.0013	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.