

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FKL135

Project No. : 2507G001
Equipment : Smart Wi-Fi Light Bulb, Multicolor
Brand Name : tp-link
Test Model : KL135
Model Name : KL135
Hardware Version : 2.0
Software Version : 2.X
Applicant : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Manufacturer : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Date of Receipt : Jun. 30, 2025
Date of Test : Jul. 01, 2025 ~ Jul. 28, 2025
Issued Date : Aug. 07, 2025
Test Sample : Engineering Sample No.: DG20250630192
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
 FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

Prepared by

: Chella Zheng
Chella Zheng

Approved by

: Chay Cai
Chay Cai

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2507G001	R00	Original Report.	Aug. 07, 2025	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

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

R = distance to the center of radiation of the antenna

2. ANTENNA SPECIFICATION

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	KL135(US)2.6_ANT	monopole	N/A	-1.74

Note: The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-1.74	0.6699	21.33	135.8313	0.01811	1	Complies

Note:

(1) The calculated distance is 20 cm.

End of Test Report