

FCC RF EXPOSURE REPORT

FCC ID: TE7KL430

Project No. : 1902C078
Equipment : Kasa Smart Light Strip, Multicolor
Model : KL430
Applicant : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4)
Central Science and Technology Park,
Shennan Rd, Nanshan, Shenzhen, China

According: : FCC Guidelines for Human Exposure IEEE
C95.1 & FCC Part 2.1091

B T L I N C .

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Certificate #5123.02

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 25, 2019
R01	Updated the product, model name and FCC ID which does not affect the test results, the rest are kept the same.	Jun. 20, 2019
R02	Updated the product name which does not affect the test results, the rest are kept the same.	Jun. 27, 2019
R03	Updated the tune-up power tolerance.	Jul. 08, 2019

1. GENERAL SUMMARY

Equipment : Kasa Smart Light Strip, Multicolor
Brand Name : tp-link
Test Model : KL430
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
Manufacturer : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Factory : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Date of Test : Feb. 26, 2019 ~ Mar. 12, 2019
Test Sample : Engineering Sample No.: D190201743
Standards : FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1902C078) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

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

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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PIFA	N/A	1.97

3. TEST RESULTS

Antenna gain (dBi)	Directional 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
1.97	1.5740	23.72	235.505	0.07378	1	Complies

Note: 1. The calculated distance is 20 cm.
2. The tune-up power is 23.72.

Output power including tune up tolerance.

End of Test Report