FCC RF EXPOSURE REPORT

FCC ID: TE7P100

Project No.	**: 1906C018**
Equipment	**: Mini Smart Wi-Fi Socket**
Model Name	**: Tapo P100**
Series Model	**: N/A**
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**

BTL INC.

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Certificate #5123.02

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Aug. 22, 2019

1. GENERAL SUMMARY

Equipment	:	Mini Smart Wi-Fi Socket
Brand Name	:	Tapo
Test Model	:	Tapo P100
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
Date of Test	:	Jun. 12, 2019 ~ Aug. 15, 2019
Test Sample	:	Engineering Sample No.: DG19060646
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-2-1906C018) 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

Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	TP-LINK	N/A	PIFA	N/A	2

3. TEST RESULTS

For WLAN 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	21.96	157.0363	0.04954	1	Complies

For Bluetooth LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	10.01	10.0231	0.00316	1	Complies

For the max simultaneous transmission MPE:

Power Density (S) (mW/cm^2) Bluetooth LE	Power Density (S) (mW/cm^2) WLAN 2.4GHz	Total	Limit of Power Density (S) (mW/cm^2)	Test Result
0.04954	0.00316	0.0527	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report