

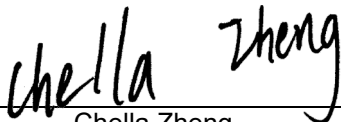
FCC RF EXPOSURE REPORT

FCC ID: 2BCGWBS2100

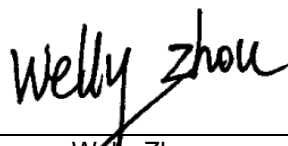
Project No. : 2402G028
Equipment : Smart Wi-Fi Light Switch, Dimmer
Brand Name : tp-link
Test Model : BS2100
Series Model : NA
Applicant : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Manufacturer : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Date of Receipt : Feb. 02, 2024
Date of Test : Mar. 12, 2024 ~ Apr. 02, 2024
Issued Date : Apr. 16, 2024
Report Version : R00
Test Sample : Engineering Sample No.: SSL2024020669 for WiFi 2.4G,
SSL2024020667 for LE.
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091

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

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2402G028	R00	Original Report.	Apr. 16, 2024	Valid

1. 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

2. ANTENNA SPECIFICATION

Ant.	Manufacturer	Product Model	Antenna Type	Connector	Gain (dBi)
1	BIG FIELD GLOBAL PTE. LTD	BS2100(US)1.6	Dipole	N/A	2.93

Note: The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For LE:

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
2.93	1.9634	7.32	5.3951	0.00211	1	Complies

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
2.93	1.9634	18.82	76.2079	0.02978	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report