

# **FCC RF EXPOSURE REPORT**

FCC ID: 2BCGWBP2200

**Project No.** : 2403G096

**Equipment**: Smart Wi-Fi Outlet

Brand Name : tp-link
Test Model : BP2200
Series Model : N/A

**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 : Mar. 15, 2024

**Date of Test** : Mar. 18, 2024 ~ Apr. 13, 2024

Issued Date : May 06, 2024

Report Version : R00

Test Sample : Engineering Sample No.: SSL20240315121, SSL20240315122 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.

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# **REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2403G096	R00	Original Report.	May 06, 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.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
1	tp-link	BP2200	IFA	N/A	2.19	

Note: The antenna gain is provided by the manufacturer.

#### 3. CALCULATED RESULT

#### For BT LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2.19	1.6558	9.45	8.8105	0.00290	1	Complies

### For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm²)	Test Result
2.19	1.6558	18.63	72.9458	0.02404	1	Complies

#### Note:

- 1) The calculated distance is 20 cm.
- 2) BT LE and WLAN 2.4GHz can not simultaneous transmission.

**End of Test Report**