

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FBBRG5UR

Project No. : 2505G011
Equipment : 5GHz Ultra-Range Wireless Bridge
Brand Name : tp-link
Model Name : Beam Bridge 5 UR
Hardware Version : V1
Software Version : V1
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 : May 17, 2025
Date of Test : May 19, 2025 ~ Jul. 08, 2025
Issued Date : Jul. 30, 2025
Test Sample : Engineering Sample No.: DG2025051719
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).

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2505G011	R00	Original Report.	Jul. 30, 2025	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	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	TP-Link Systems Inc.	N/A	Dipole	IPEX	15.97	UNII-1
2	TP-Link Systems Inc.	N/A	Dipole	IPEX	18.04	
1	TP-Link Systems Inc.	N/A	Dipole	IPEX	17.64	UNII-3
2	TP-Link Systems Inc.	N/A	Dipole	IPEX	18.96	

Note:

- 1) The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For 5GHz(UNII-1):

Directional 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
20.08	101.8591	24.68	293.7650	0.23824	1	Complies

For 5GHz(UNII-3):

Directional 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
21.34	136.1445	28.71	743.0191	0.80540	1	Complies

Note:

- (1) The calculated distance is 100 cm.
- (2) Output power including tune up tolerance

End of Test Report