

FCC RF EXPOSURE REPORT

FCC ID: 2AXJ4HX510V2

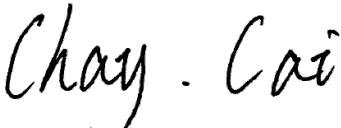
Project No. : 2405G108
Equipment : AX3000 Whole Home Mesh Wi-Fi AP
Brand Name : tp-link
Test Model : HX510
Series Model : N/A
Applicant : TP-Link Corporation Limited
Address : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,
Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer : TP-Link Corporation Limited
Address : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,
Tsim Sha Tsui, Kowloon, Hong Kong
Issued Date : May 29, 2024
Report Version : R00
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-3-2405G108	R00	Original Report.	May 29, 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. CALCULATED RESULT

Radio Frequency Radiation Exposure Evaluation

(Worst case)				
Operating Mode	Max. Tune up Power	Max. Directional Antenna Gain	Power density	Limit
	(dBm)	(dBi)	(mW/ cm ²)	
WIFI 2.4G	27.69	2	0.18524	1

(Worst case)				
Operating Mode	Max. Tune up Power	Max. Directional Antenna Gain	Power density	Limit
	(dBm)	(dBi)	(mW/ cm ²)	
WIFI 5G	27.41	1	0.13795	1

Note:

1. The calculated distance is 20 cm.

2. The power comes from operation description.

3. The manufacturer declared that the EUT can support WIFI 2.4G&WIFI 5Gsimultaneous emission.

2.4 GHz WiFi + 5 GHz WiFi = 0.18524+ 0.13795= 0.32319 (mW/cm²)

Therefor the maximum calculations of above situations are less than the "1" limit.

Note: The test results reference to report which is provided by the manufacturer.

(Report No.: 4791019221-1-RF-4)

End of Test Report