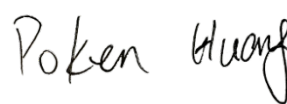


# FCC RF Exposure Report

**FCC ID: 2BH7FC520WSV2**

**Report No.** : BTL-FCCP-3-2407G080B  
**Equipment** : Outdoor Pan/Tilt Security Wi-Fi Camera  
**Model Name** : Tapo C520WS  
**Series Model** : N/A  
**Brand Name** : tp-link  
**Applicant** : TP-Link Systems Inc.  
**Address** : 10 Mauchly, Irvine, CA 92618  
  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091  
FCC Title 47 Part 2.1091 & KDB 447498 D01 v06  
  
**Date of Receipt** : 2024/9/23  
**Date of Test** : 2024/10/01 ~ 2024/10/19  
**Issued Date** : 2024/12/2

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

**Prepared by** :   
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**Approved by** :   
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## BTL Inc.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2407G080B	R00	Original Report.	2024/12/2	Valid

## 1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

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 Name	Model Name	Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	Tapo C520WS	dipole	N/A	0.5
2	TP-Link Systems Inc.	Tapo C520WS	dipole	N/A	0.5

Note:

- (1) Smart antenna system with two transmit/receive chains, but operating in a mode where only one transmit/receive chain is used.
- (2) The antenna gain and beamforming gain are 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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
0.5	1.1220	6.37	4.3351	0.00097	1	Complies

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
0.5	1.1220	19.86	96.8278	0.02162	1	Complies

**For the max simultaneous transmission MPE:**

Ratio		Total	Limit of Ratio	Test Result
LE	2.4GHz			
0.00097	0.02162	0.02259	1	Complies

Note:

- (1) The calculated distance is 20 cm.
- (2) Output power including tune up tolerance.

**End of Test Report**