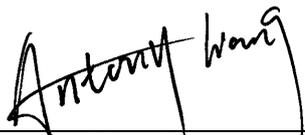


# FCC RF EXPOSURE REPORT

## FCC ID: 2AXJ4UB500

**Project No.** : 2103C240  
**Equipment** : Bluetooth 5.0 Nano USB Adapter  
**Brand Name** : tp-link  
**Test Model** : UB500  
**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  
**Date of Receipt** : Apr. 19, 2021  
**Date of Test** : Apr. 20, 2021 ~ Jun. 30, 2021  
**Issued Date** : Jul. 14, 2021  
**Report Version** : R01  
**Test Sample** : Engineering Sample No.: DG20210420136  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & KDB447498 D01

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



Prepared by : Antony Liang



Approved by : Ethan Ma



TESTING CERT #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

Tel: +86-769-8318-3000

Web: [www.newbtl.com](http://www.newbtl.com)

**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 08, 2021
R01	Added the description of the evaluated distance.	Jul. 14, 2021

## 1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

## 2. GENERAL CONCLUSION

According to FCC KDB447498 D01, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Appendix A - SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and $\leq 50$ mm											
MHz	5	10	15	20	25	30	35	40	45	50	mm
150	39	77	116	155	194	232	271	310	349	387	SAR Test Exclusion Thresholds (mW)
300	27	55	82	110	137	164	192	219	246	274	
450	22	45	67	89	112	134	157	179	201	224	
835	16	33	49	66	82	98	115	131	148	164	
900	16	32	47	63	79	95	111	126	142	158	
1500	12	24	37	49	61	73	86	98	110	122	
1900	11	22	33	44	54	65	76	87	98	109	
2450	10	19	29	38	48	57	67	77	86	96	
3600	8	16	24	32	40	47	55	63	71	79	
5200	7	13	20	26	33	39	46	53	59	66	
5400	6	13	19	26	32	39	45	52	58	65	
5800	6	12	19	25	31	37	44	50	56	62	

**3. TABLE FOR FILED ANTENNA**

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	tp-link	N/A	PIFA	N/A	0

Note: The antenna gain is provided by the manufacturer.

**4. TEST RESULTS**

For BT:

Frequency (MHz)	Max Tune-up power (dBm)	Max Tune-up power (mW)	Result	Limit
2441	9.73	9.397	2.936	3

For LE:

Frequency (MHz)	Max Tune-up power (dBm)	Max Tune-up power (mW)	Result	Limit
2480	9.72	2.953	2.953	3

Note:

- (1) Output power including tune up tolerance.
- (2) No SAR evaluation required since transmitter power is below FCC threshold.
- (3) The evaluated distance is 5mm.

**End of Test Report**