





# RF EXPOSURE REPORT

Applicant	TP-Link Technologies Co., Ltd.
Address	Building 24(floors1, 3, 4, 5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Manufacturer or Supplier	TP-Link Technologies Co., Ltd.
Address	Building 24(floors1, 3, 4, 5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Product	450Mbps Wireless N Access Point
Brand Name	TP-Link
Model	TL-WA901ND
Additional Model & Model Difference	N/A
Date of tests	Dec. 12, 2016 ~ Jan. 16, 2017

- FCC Part 2 (Section 2.1091)
- KDB 447498 D01
- IEEE C95.1

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Harry Li Project Engineer/ EMC Department	Approved by Glyn He Supervisor/ EMC Department
	
	Date: Jan. 23, 2017

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**VERITAS**

Test Report No.: FS160926N068

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS160926N068	Original release	Jan. 23, 2017

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**BUREAU  
VERITAS**

Test Report No.: FS160926N068

## 1. CERTIFICATION

**PRODUCT:** 450Mbps Wireless N Access Point

**BRAND NAME:** TP-Link

**MODEL NO.:** TL-WA901ND

**ADDITIONAL MODEL:** N/A

**FCC ID:** TE7WA901NDV5

**TEST SAMPLE:** ENGINEERING SAMPLE

**APPLICANT:** TP-Link Technologies Co., Ltd.

**TESTED DATE:** Jan. 16, 2017

**STANDARDS:** FCC Part 2 (Section 2.1091)

KDB 447498 D01

IEEE C95.1



## 2. RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 3. MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

## 4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



## 5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Total Gain (dBi)	Antenna Type
Chain 0	4.32	9.09	Dipole Antenna
Chain 1	4.32		Dipole Antenna
Chain 2	4.32		Dipole Antenna

Note: Total Gain=4.32+10log(N=3)=4.32+(4.77)=9.09dBi

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
WLAN 2.4GHz	169.111	4.32	20	0.0909	1.0

--- END ---