

# RF EXPOSURE REPORT

Applicant	TP-LINK TECHNOLOGIES CO.,LTD.
Address	Building 24 (floors 1,3,4,5) and 28 (floors 1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Manufacturer or Supplier	TP-LINK TECHNOLOGIES CO.,LTD.
Address	Building 24 (floors 1,3,4,5) and 28 (floors 1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Product:	5GHz 150Mbps Indoor / Outdoor Wireless Access Point
Brand Name:	TP-LINK
Model:	TL-WA7510N
Date of tests:	Nov. 06 ~ Nov. 15, 2012

the tests have been carried out according to the requirements of the following standards:

- **◯** IEEE C95.1

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

Prepared by Kent Liu Project Engineer / EMC Department	Approved by Sam Tung Manager / EMC Department	
Kut	Date: Nov. 26, 2012	

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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120625N003	Original release	Nov. 26, 2012

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# 1. CERTIFICATION

PRODUCT: 5GHz 150Mbps Indoor / Outdoor Wireless Access Point

MODEL: TL-WA7510N

APPLICANT: TP-LINK TECHNOLOGIES CO.,LTD.

TESTED: Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

**TEST SAMPLE: ENGINEERING SAMPLE** 

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

**IEEE C95.1** 

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## 2. RF Exposure Limit

#### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD MAGNETIC FIELD STRENGTH (V/m) STRENGTH (A/m)		_	AVERAGE TIME (minutes)	
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE					
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**.

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## 5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
802.11a CH 157	40.738	15	20	0.20357	1.00
802.11n 20MHz CH 165	35.645	15	20	0.22425	1.00
802.11n 40MHz CH 151	31.333	15	20	0.19712	1.00

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