

RF EXPOSURE REPORT

REPORT NO.: SA130328C36B

MODEL NO.: TL-WR840N

FCC ID: TE7WR840NV1

- **RECEIVED:** Oct. 21, 2013
 - **TESTED:** Oct. 21 ~ Oct. 30, 2013
 - **ISSUED:** Dec. 19, 2013

APPLICANT: TP-LINK TECHNOLOGIES CO., LTD.

ADDRESS: Building 24 (floors 1, 3, 4, 5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

- LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
- **TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130328C36B	Original release.	Dec. 19, 2013



1. CERTIFICATION

PRODUCT: 300Mbps Wireless N Router MODEL: TL-WR840N **BRAND:** TP-LINK APPLICANT: TP-LINK TECHNOLOGIES CO., LTD. **TESTED:** Oct. 21 ~ Oct. 30, 2013 TEST SAMPLE: ENGINEERING SAMPLE STANDARDS: FCC Part 2 (Section 2.1091) FCC OET Bulletin 65, Supplement C (01-01) **IEEE C95.1**

The above equipment (model: TL-WR840N) has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

 PREPARED BY :
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 Dec. 19, 2013

 APPROVED BY :
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 , DATE :
 Dec. 19, 2013



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

F = Frequency in MHz

2.2 MPE CALCULATION FORMULA

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

where

 $Pd = power density in mW/cm^2$

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

2.3 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**.



2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
28.28	1.5	20	0.189	1

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