



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: V7TN301**

**Project No. : 1308C212**  
**Equipment : Wireless N301 Easy Setup Router**  
**Model : N301**  
**Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD.**  
**Address : Tenda Industrial Park, No. 34-1, Shilong Rd.,  
Shiyan Town, Bao'an District, Shenzhen,  
P.R.China 518108**

**According: : FCC Guidelines for Human Exposure IEEE C95.1**

***Neutron Engineering Inc.***

***No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan,  
China.***

***TEL : (0769) 8318-3000 FAX : (0769) 8319-6000***



**Neutron Engineering Inc.**

## **MPE CALCULATION METHOD:**

Calculation Method of RF Safety Distance:

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

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

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)
1	Tenda	50000931	Dipole	N/A	4.94
2	Tenda	50000933	Dipole	N/A	4.94



**Neutron Engineering Inc.**

## TEST RESULTS

EUT :	WIRELESS N301 EASY SETUP ROUTER	Model Name :	N301
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	B Mode/CH01/CH06/CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.94	3.1189	15.46	35.1560	0.02182480	1	Complies
4.94	3.1189	15.49	35.3997	0.02197609	1	Complies
4.94	3.1189	15.75	37.5837	0.02333191	1	Complies

EUT :	WIRELESS N301 EASY SETUP ROUTER	Model Name :	N301
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	G Mode/CH01/CH06/CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.94	3.1189	18.97	78.8860	0.04897229	1	Complies
4.94	3.1189	18.99	79.2501	0.04919833	1	Complies
4.94	3.1189	18.83	76.3836	0.04741878	1	Complies



## Neutron Engineering Inc.

EUT :	WIRELESS N301 EASY SETUP ROUTER	Model Name :	N301
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	N20 Mode/CH01/CH06/CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.94	3.1189	21.48	140.6048	0.08728716	1	Complies
4.94	3.1189	21.55	142.8894	0.08870546	1	Complies
4.94	3.1189	21.53	142.2329	0.08829790	1	Complies

EUT :	WIRELESS N301 EASY SETUP ROUTER	Model Name :	N301
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	N40 Mode/CH03/CH06/CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.94	3.1189	17.54	56.7545	0.03523306	1	Complies
4.94	3.1189	17.45	55.5904	0.03451043	1	Complies
4.94	3.1189	17.62	57.8096	0.03588809	1	Complies

Note: the calculation distance is 20cm.