



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: V7TN150

Project No. : 1308C213
Equipment : Wireless N150 Easy Setup Router
Model : N150
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

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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	Q5098	Dipole	N/A	5.00



TEST RESULTS

EUT :	WIRELESS N150 EASY SETUP ROUTER	Model Name :	N150
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5	3.1623	16.73	47.0977	0.02964493	1	Complies
5	3.1623	16.42	43.8531	0.02760262	1	Complies
5	3.1623	16.28	42.4620	0.02672701	1	Complies

EUT :	WIRELESS N150 EASY SETUP ROUTER	Model Name :	N150
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5	3.1623	19.42	87.4984	0.05507448	1	Complies
5	3.1623	20.25	105.9254	0.06667306	1	Complies
5	3.1623	18.56	71.7794	0.04518043	1	Complies



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EUT :	WIRELESS N150 EASY SETUP ROUTER	Model Name :	N150
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5	3.1623	19.56	90.3649	0.05687879	1	Complies
5	3.1623	20.5	112.2018	0.07062368	1	Complies
5	3.1623	18.67	73.6207	0.04633940	1	Complies

EUT :	WIRELESS N150 EASY SETUP ROUTER	Model Name :	N150
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5	3.1623	17.68	58.6138	0.03689354	1	Complies
5	3.1623	20.12	102.8016	0.06470687	1	Complies
5	3.1623	17.54	56.7545	0.03572320	1	Complies

Note: the calculation distance is 20cm.