



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: V7TF452

Project No. : 1308C211
Equipment : Wireless N450 Gigabit Router
Model : F452
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



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	S/N	Antenna Type	Connector	Gain (dBi)
0	Tenda	N/A	Dipole	N/A	5
1	Tenda	N/A	Dipole	N/A	5
2	Tenda	N/A	Dipole	N/A	5



TEST RESULTS

EUT :	Wireless N450 Gigabit Router	Model Name :	F452
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	18.23	66.5273	0.04187457	1	Complies
5	3.1623	18.55	71.6143	0.04507652	1	Complies
5	3.1623	18.69	73.9605	0.04655329	1	Complies

EUT :	Wireless N450 Gigabit Router	Model Name :	F452
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	25.74	374.9730	0.23602085	1	Complies
5	3.1623	25.68	369.8282	0.23278252	1	Complies
5	3.1623	25.54	358.0964	0.22539816	1	Complies



Neutron Engineering Inc.

EUT :	Wireless N450 Gigabit Router	Model Name :	F452
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	27.26	532.1083	0.33492716	1	Complies
5	3.1623	27.21	526.0173	0.33109328	1	Complies
5	3.1623	27.34	542.0009	0.34115392	1	Complies

EUT :	Wireless N450 Gigabit Router	Model Name :	F452
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	27.04	505.8247	0.31838337	1	Complies
5	3.1623	27.40	549.5409	0.34589985	1	Complies
5	3.1623	27.24	529.6634	0.33338831	1	Complies

Note: the calculation distance is 20cm.