FCC RF EXPOSURE REPORT FCC ID: V7TA8

Project No. : 1312C020

Equipment: Wireless N150 Portable Router

Model : A8

Applicant: SHENZHEN TENDA TECHNOLOGY CO.,LTD.

Address : Tenda Industrial Park, No.34-1, Shilong Rd., Shiyan Town, Bao'an

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

Neutron Engineering Inc.

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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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	3

TEST RESULTS

EUT: Wireless N150 Portable Router		Model Name:	A8
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
3	1.9953	17.05	50.6991	0.02013494	1	Complies
3	1.9953	15.75	37.5837	0.01492624	1	Complies
3	1.9953	15.49	35.3997	0.01405887	1	Complies

EUT:	Wireless N150 Portable Router	Model Name:	A8
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX G MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
3	1.9953	23.61	229.6149	0.09119066	1	Complies
3	1.9953	23.91	246.0368	0.09771255	1	Complies
3	1.9953	23.83	241.5461	0.09592910	1	Complies



EUT:	Wireless N150 Portable Router	Model Name :	A8			
Temperature:	24 ℃	Relative Humidity:	60 %			
Pressure:	1016 hPa	Test Voltage:	AC 120V/60Hz			
Test Mode:	TX N-20M MODE /CH01, CH06, CH11					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
3	1.9953	23.01	199.9862	0.07942375	1	Complies
3	1.9953	23.09	203.7042	0.08090034	1	Complies
3	1.9953	23.16	207.0141	0.08221487	1	Complies

EUT:	Wireless N150 Portable Router	Model Name:	A8		
Temperature:	24 °C	Relative Humidity:	60 %		
Pressure:	1016 hPa	Test Voltage:	AC 120V/60Hz		
Test Mode:	TX N-40M MODE /CH03, CH06, CH09				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
3	1.9953	20	100.0000	0.03971462	1	Complies
3	1.9953	23.42	219.7860	0.08728716	1	Complies
3	1.9953	21.07	127.9381	0.05081014	1	Complies

The calculated distance is 20 cm