



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

## **FCC ID: T58WF2407R**

**Project No.** : 1109C276  
**Equipment** : 150Mbps Wireless-N High Gain Broadband Router  
**Model Name** : WF-2407; DT-200NH  
**Applicant** : NETIS SYSTEMS CO., LTD.  
**Address** : 9F,B Block, Tsinghua Information Park, High-tech  
Industrial Park, Nanshan, Shenzhen, China  
**According:** : **FCC Guidelines for Human Exposure IEEE  
C95.1**

***Neutron Engineering Inc.***

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**MPE CALCULATION METHOD:**

Calculation Method of RF Safety Distance:

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

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	Gortec	R-AN2400-1901 RS	Dipole	R-SMA	5.02

**TEST RESULTS**

EUT:	150Mbps Wireless-N High Gain Broadband Router	Model Name :	WF-2407
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/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
<b>5.02</b>	<b>3.1769</b>	<b>15.45</b>	<b>35.0752</b>	<b>0.022179</b>	<b>1</b>	<b>Complies</b>
5.02	3.1769	15.29	33.8065	0.021377	1	Complies
5.02	3.1769	15.37	34.4350	0.021775	1	Complies



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EUT:	150Mbps Wireless-N High Gain Broadband Router	Model Name :	WF-2407
Temperature:	24 °C	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/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
<b>5.02</b>	<b>3.1769</b>	<b>15.67</b>	<b>36.8978</b>	<b>0.023332</b>	<b>1</b>	<b>Complies</b>
5.02	3.1769	15.60	36.3078	0.022959	1	Complies
5.02	3.1769	15.74	37.4973	0.023711	1	Complies

EUT:	150Mbps Wireless-N High Gain Broadband Router	Model Name :	WF-2407
Temperature:	24 °C	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/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
<b>5.02</b>	<b>3.1769</b>	<b>15.01</b>	<b>31.6957</b>	<b>0.020042</b>	<b>1</b>	<b>Complies</b>
5.02	3.1769	14.84	30.4789	0.019273	1	Complies
5.02	3.1769	15.03	31.8420	0.020135	1	Complies

EUT:	150Mbps Wireless-N High Gain Broadband Router	Model Name :	WF-2407
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/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
<b>5.02</b>	<b>3.1769</b>	<b>14.70</b>	<b>29.5121</b>	<b>0.018662</b>	<b>1</b>	<b>Complies</b>
5.02	3.1769	14.51	28.2488	0.017863	1	Complies
5.02	3.1769	14.69	29.4442	0.018619	1	Complies