## FCC RF EXPOSURE REPORT FCC ID: T583GC101R

**Project No.** : 1104C004

**Equipment**: 150Mpbs Wireless-N 3G Broadband Router

**Model** : **3G-C101** 

**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.

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

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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		Gain (dBi)
1	GEQI	G020-1002 8-A	Dipole Antenna	N/A	5.0

## **TEST RESULTS**

EUT:	150Mbps Wireless-N 3G broadband Router	Model Name:	3G-C101
Temperature:	125 °C	Relative Humidity:	60 %
Pressure:	1012 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
5	3.1623	21.1500	130.3167	0.08202578	1	Complies
5	3.1623	20.8400	121.3389	0.07637485	1	Complies
5	3.1623	20.6100	115.0800	0.07243532	1	Complies



EUT:	150Mbps Wireless-N 3G broadband Router	Model Name:	3G-C101
Temperature:	125 °C	Relative Humidity:	60 %
Pressure:	1012 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
5	3.1623	23.52	224.9055	0.14156320	1	Complies
5	3.1623	23.96	248.8857	0.15665720	1	Complies
5	3.1623	24.11	257.6321	0.16216248	1	Complies

EUT:	150Mbps Wireless-N 3G broadband Router	Model Name:	3G-C101
Temperature:	126 (1	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage:	AC 120V/60Hz
Test Mode: TX N20MHz 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
5	3.1623	22.44	175.3881	0.11039525	1	Complies
5	3.1623	21.97	157.3983	0.09907187	1	Complies
5	3.1623	22.31	170.2159	0.10713969	1	Complies

EUT:	150Mbps Wireless-N 3G broadband Router	Model Name:	3G-C101		
Temperature:	125 °C	Relative Humidity:	60 %		
Pressure:	1012 hPa	Test Voltage:	AC 120V/60Hz		
Test Mode: TX N40MHz 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
5	3.1623	22.11	162.5549	0.10231761	1	Complies
5	3.1623	21.41	138.3566	0.08708641	1	Complies
5	3.1623	21.83	152.4053	0.09592910	1	Complies