



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: T58WF2118RT

Project No. : 1110C240
Equipment : 300Mbps Wireless-N PCI Adapter
Model : WF-2118
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

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)
1	HONGLIN	G033-3100 28-A	Dipole	R-SMA	5.04
2	HONGLIN	G033-3100 28-A	Dipole	R-SMA	5.04

TEST RESULTS

EUT:	300Mbps Wireless-N PCI Adapter	Model Name :	WF-2118
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.04	3.1915	17.3700	54.5758	0.034670	1	Complies
5.04	3.1915	17.8400	60.8135	0.038632	1	Complies
5.04	3.1915	17.2700	53.3335	0.033881	1	Complies



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EUT:	300Mbps Wireless-N PCI Adapter	Model Name :	WF-2118
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.04	3.1915	18.8500	76.7361	0.048747	1	Complies
5.04	3.1915	18.4300	69.6627	0.044254	1	Complies
5.04	3.1915	19.6100	91.4113	0.058070	1	Complies

EUT:	300Mbps Wireless-N PCI Adapter	Model Name :	WF-2118
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.04	3.1915	19.5800	90.7821	0.057670	1	Complies
5.04	3.1915	19.8500	96.6051	0.061369	1	Complies
5.04	3.1915	19.2600	84.3335	0.053574	1	Complies

EUT:	300Mbps Wireless-N PCI Adapter	Model Name :	WF-2118
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.04	3.1915	19.1200	81.6582	0.051874	1	Complies
5.04	3.1915	19.7400	94.1890	0.059834	1	Complies
5.04	3.1915	19.5700	90.5733	0.057537	1	Complies