Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: T58WF2780R

Project No.	**: 1402C047**
Equipment	**: AC1200 Wireless Dual Band Gigabit Router**
Model	**: WF2780**
Applicant	**: NETIS SYSTEMS CO., LTD**
Address	**: 4F&5F R&D Building, Oriental Cyberport, 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:

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

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)	Note
1	RF link	RF21C00072A	Dipole	N/A	5.42	TX/RX
1	RF link	RF21C00002A	Dipole	N/A	4.96	TX/RX

TEST RESULTS

EUT：	AC1200 Wireless Dual Band Gigabit Router	Model Name ：	WF2780
Temperature：	25 ℃	Relative Humidity：	55 %
Test Voltage ：	AC 120V/60Hz		
Test Mode ：	CH01, CH06, CH11 TX B Mode		

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
5.42	3.4834	13.56	22.6986	0.01573803	1	Complies
5.42	3.4834	13.77	23.8232	0.01651773	1	Complies
5.42	3.4834	13.54	22.5944	0.01566572	1	Complies

EUT：	AC1200 Wireless Dual Band Gigabit Router	Model Name ：	WF2780
Temperature：	25 ℃	Relative Humidity：	55 %
Test Voltage ：	AC 120V/60Hz		
Test Mode ：	CH01, CH06, CH11 TX G Mode		

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
5.42	3.4834	13.95	24.8313	0.01721672	1	Complies
5.42	3.4834	13.72	23.5505	0.01632865	1	Complies
5.42	3.4834	13.45	22.1309	0.01534442	1	Complies

EUT：	AC1200 Wireless Dual Band Gigabit Router	Model Name ：	WF2780
Temperature：	25 ℃	Relative Humidity：	55 %
Test Voltage ：	AC 120V/60Hz		
Test Mode ：	CH01, CH06, CH11 TX N-20M Mode_Total		

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
5.42	3.4834	15.7884	37.9175	0.02628999	1	Complies
5.42	3.4834	15.5236	35.6747	0.02473491	1	Complies
5.42	3.4834	15.7081	37.2229	0.02580836	1	Complies

EUT：	AC1200 Wireless Dual Band Gigabit Router	Model Name ：	WF2780
Temperature：	25 ℃	Relative Humidity：	55 %
Test Voltage ：	AC 120V/60Hz		
Test Mode ：	CH03, CH06, CH09 TX N-40M Mode_Total		

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
5.42	3.4834	15.3509	34.2839	0.02377061	1	Complies
5.42	3.4834	15.4405	34.9985	0.02426612	1	Complies
5.42	3.4834	15.4056	34.7184	0.02407190	1	Complies

The calculated distance is 20 cm.