



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:

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

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



TEST RESULTS

EUT:	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	25 °C	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 °C	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



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EUT:	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	25 °C	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 °C	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.