



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.

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

TEL : (0769) 8318-3000 FAX : (0769) 8319-6000



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
6	<i>RF link</i>	RF21C00077A	Dipole	N/A	5.88	TX/RX
7	<i>RF link</i>	RF21C00073A	Dipole	N/A	5.88	TX/RX



TEST RESULTS

EUT:	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX A Mode /CH149, CH157, CH165		

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
5.88	3.8726	12.89	19.4536	0.01499513	1	Complies
5.88	3.8726	12.69	18.5780	0.01432024	1	Complies
5.88	3.8726	12.45	17.5792	0.01355035	1	Complies

EUT:	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 Mode /CH149, CH157, CH165 ANT 6+ANT 7		

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
5.88	3.8726	15.81	38.1066	0.02937314	1	Complies
5.88	3.8726	15.63	36.5595	0.02818061	1	Complies
5.88	3.8726	15.8	38.0189	0.02930558	1	Complies



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EUT:	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 Mode /CH151, CH159 ANT 6+ANT 7		

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
5.88	3.8726	15.69	37.0681	0.02857264	1	Complies
5.88	3.8726	15.54	35.8096	0.02760262	1	Complies

EUT:	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC 20 Mode /CH149, CH157, CH165 ANT 6+ ANT 7		

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
5.88	3.8726	15.81	38.1066	0.02937314	1	Complies
5.88	3.8726	15.63	36.5595	0.02818061	1	Complies
5.88	3.8726	15.69	37.0681	0.02857264	1	Complies



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EUT:	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC 40 Mode /CH151, CH159 ANT 6+ ANT 7		

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
5.88	3.8726	15.69	37.0681	0.02857264	1	Complies
5.88	3.8726	15.54	35.8096	0.02760262	1	Complies

EUT:	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC 80 Mode /CH155 ANT 6+ ANT 7		

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
5.88	3.8726	15.55	35.8922	0.02766625	1	Complies

The calculated distance is 20 cm.