



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: T58WF2710R**

**Project No.** : 1309C035A  
**Equipment** : AC750 Wireless Dual Band Router  
**Model Name** : WF2710  
**Applicant** : NETIS SYSTEMS CO., LTD.  
**Address** : 4F&5F R&D Building, Oriental Cyberport, High-Tech  
Industrial Park, Nanshan, Shenzhen, China  
**Manufacturer** : Shenzhen Netcore Industrial Ltd  
**Address** : 4F&5F R&D Building , Oriental Cyberport, High-Tech  
Industrial Park, Nanshan, Shenzhen, China.

**According:** : **FCC Guidelines for Human Exposure IEEE C92.76**

***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	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	<i>RF link</i>	RF21C00139A	Dipole	N/A	5.16	TX/RX
2	<i>RF link</i>	RF21C00138A	Dipole	N/A	5.28	TX/RX

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).

Operating Mode	TX Mode	
	1TX	2TX
802.11b	V (ANT 1 or ANT 2)	-
802.11g	V (ANT 1 or ANT 2)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)



**TEST RESULTS**

EUT:	AC750 Wireless Dual Band Router	Model Name :	WF2710
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.28	3.3729	16.97	49.7737	0.03341569	1	Complies
5.28	3.3729	16.75	47.3151	0.03176511	1	Complies
5.28	3.3729	16.95	49.5450	0.03326215	1	Complies

EUT:	AC750 Wireless Dual Band Router	Model Name :	WF2710
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.28	3.3729	19.95	98.8553	0.06636672	1	Complies
5.28	3.3729	19.83	96.1612	0.06455804	1	Complies
5.28	3.3729	19.72	93.7562	0.06294342	1	Complies

EUT:	AC750 Wireless Dual Band Router	Model Name :	WF2710
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11-ANT 1		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.28	3.3729	17.52	56.4937	0.03792716	1	Complies
5.28	3.3729	17.62	57.8096	0.03881060	1	Complies
5.28	3.3729	17.26	53.2108	0.03572320	1	Complies



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Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11-ANT 2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.28	3.3729	17.23	52.8445	0.03547728	1	Complies
5.28	3.3729	16.83	48.1948	0.03235567	1	Complies
5.28	3.3729	17.19	52.3600	0.03515203	1	Complies

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Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11-ANT 1+ANT 2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.28	3.3729	20.39	109.3956	0.07344299	1	Complies
5.28	3.3729	20.25	105.9254	0.07111322	1	Complies
5.28	3.3729	20.24	105.6818	0.07094967	1	Complies



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EUT:	AC750 Wireless Dual Band Router	Model Name :	WF2710
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09 ANT 1		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.28	3.3729	16.73	47.0977	0.03161916	1	Complies
5.28	3.3729	16.93	49.3174	0.03310933	1	Complies
5.28	3.3729	16.72	46.9894	0.03154644	1	Complies

EUT:	AC750 Wireless Dual Band Router	Model Name :	WF2710
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09 ANT 1		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.28	3.3729	16.73	47.0977	0.03161916	1	Complies
5.28	3.3729	16.93	49.3174	0.03310933	1	Complies
5.28	3.3729	16.72	46.9894	0.03154644	1	Complies

EUT:	AC750 Wireless Dual Band Router	Model Name :	WF2710
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09 ANT 2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.28	3.3729	17.42	55.2077	0.03706384	1	Complies
5.28	3.3729	17.35	54.3250	0.03647123	1	Complies
5.28	3.3729	17.21	52.6017	0.03531428	1	Complies



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Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.28	3.3729	20.1	102.3293	0.06869899	1	Complies
5.28	3.3729	20.16	103.7528	0.06965469	1	Complies
5.28	3.3729	19.98	99.5405	0.06682675	1	Complies