



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: T58WF2415R**

**Project No.** : 1212C196  
**Equipment** : 300Mbps Gigabit Wireless-N AP/ Repeater/ Router Client  
**Model** : WF2415  
**Applicant** : NETIS SYSTEMS CO., LTD  
**Address** : 9F,B Block, Tsinghua Information Park, High-tech Industrial Park,  
Nanshan, Shenzhen, China  
**Manufacturer** : Shenzhen Netcore Industrial 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.***

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

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



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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	Cortec	AN2400-92F26BO	Dipole	Mini	5.56	TX/RX
2	Cortec	AN2400-92F19BO	Dipole	Mini	5.71	TX/RX

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

Operating Mode TX Mode	1TX	2TX
	802.11b	V (ANT1 or ANT2)
802.11g	V (ANT1 or ANT2)	-
802.11n(20MHz)	-	V (ANT1 & ANT2)
802.11n(40MHz)	-	V (ANT1 & ANT2)



## TEST RESULTS

EUT:	Wireless Dual Band Router	Model Name :	WF2471
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 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
5.71	3.7239	17.86	61.0942	0.02482849	1	Complies
5.71	3.7239	17.90	61.6595	0.02505823	1	Complies
5.71	3.7239	17.92	61.9441	0.02517389	1	Complies

EUT:	Wireless Dual Band Router	Model Name :	WF2471
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 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
5.71	3.7239	19.93	98.4011	0.03998990	1	Complies
5.71	3.7239	19.82	95.9401	0.03898974	1	Complies
5.71	3.7239	19.90	97.7237	0.03971462	1	Complies



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EUT:	Wireless Dual Band Router	Model Name :	WF2471
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20MHz MODE CH01/CH06/CH11-ANT1+ANT2		

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
8.65	7.3282	17.44	55.4626	0.08090034	1	Complies
8.65	7.3282	17.63	57.9429	0.08451823	1	Complies
8.65	7.3282	17.76	59.7035	0.08708641	1	Complies

EUT:	Wireless Dual Band Router	Model Name :	WF2471
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40MHz MODE CH03/CH06/CH09-ANT1+ANT2		

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
8.65	7.3282	15.08	32.2107	0.04698404	1	Complies
8.65	7.3282	15.16	32.8095	0.04785754	1	Complies
8.65	7.3282	15.2	33.1131	0.04830036	1	Complies