

FCC RF EXPOSURE REPORT

FCC ID: T58WF2419ER

Equipment : 300Mbps Wireless N Router
Model : WF2419E
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

B T L I N C .

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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	N/A	N/A	Dipole	N/A	4.97	TX/RX
2	N/A	N/A	Dipole	N/A	4.97	TX/RX

TEST RESULTS

EUT :	300Mbps Wireless N Router	Model Name :	WF2419E
Temperature :	25 °C	Relative Humidity:	55 %
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.97	3.1405	16.92	49.2040	0.03075745	1	Complies
4.97	3.1405	16.94	49.4311	0.03089942	1	Complies
4.97	3.1405	17.03	50.4661	0.03154644	1	Complies

EUT :	300Mbps Wireless N Router	Model Name :	WF2419E
Temperature :	25 °C	Relative Humidity:	55 %
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.97	3.1405	22.43	174.9847	0.10938314	1	Complies
4.97	3.1405	22.71	186.6380	0.11666763	1	Complies
4.97	3.1405	22.84	192.3092	0.12021270	1	Complies

EUT :	300Mbps Wireless N Router	Model Name :	WF2419E
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11		

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
4.97	3.1405	24.45	278.6121	0.17416078	1	Complies
4.97	3.1405	24.57	286.4178	0.17904012	1	Complies
4.97	3.1405	24.44	277.9713	0.17376022	1	Complies

EUT :	300Mbps Wireless N Router	Model Name :	WF2419E
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /CH03, CH06, CH09		

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
4.97	3.1405	24.5	281.8383	0.17617747	1	Complies
4.97	3.1405	24.37	273.5269	0.17098199	1	Complies
4.97	3.1405	24.45	278.6121	0.17416078	1	Complies

Note: the calculated distance is 20 cm.