



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: K7SF9K1009V2

Project No. : 1405C012
Equipment : Wireless N150 Router
Model : F9K1009V2
Applicant : Belkin International, Inc.
Address : 12045 East Waterfront Dr. Playa Vista, California,
United States
According: : FCC Guidelines for Human Exposure IEEE
C95.05.1

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 Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Dongguan City Xinsheng Electronics Co.,Ltd	800000000005- 11-12-13	Dipole	N/A	3



TEST RESULTS

EUT:	Wireless N150 Router	Model Name :	F9K1009v2
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
3	1.9953	19.11	81.4704	0.03235567	1	Complies
3	1.9953	19	79.4328	0.03154644	1	Complies
3	1.9953	18.95	78.5236	0.03118533	1	Complies

EUT:	Wireless N150 Router	Model Name :	F9K1009v2
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
3	1.9953	21.45	139.6368	0.05545623	1	Complies
3	1.9953	21.67	146.8926	0.05833784	1	Complies
3	1.9953	21.57	143.5489	0.05700991	1	Complies



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EUT:	Wireless N150 Router	Model Name :	F9K1009v2
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M 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
3	1.9953	21.43	138.9953	0.05520144	1	Complies
3	1.9953	21.46	139.9587	0.05558407	1	Complies
3	1.9953	21.22	132.4342	0.05259572	1	Complies

EUT:	Wireless N150 Router	Model Name :	F9K1009v2
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE 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
3	1.9953	21.56	143.2188	0.05687879	1	Complies
3	1.9953	21.47	140.2814	0.05571221	1	Complies
3	1.9953	21.48	140.6048	0.05584064	1	Complies

Note: the calculation distance is 20cm.