



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

## **FCC ID: K7SF9K1009V1**

**Project No. : 1402C046**  
**Equipment : Wireless N150 Router**  
**Model : F9K1009v1**  
**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:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

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 Table for Filed Antenna

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



**TEST RESULTS**

EUT:	Wireless N150 Router	Model Name :	F9K1009v1
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	18.95	78.5236	0.03118533	1	Complies
3	1.9953	18.91	77.8037	0.03089942	1	Complies
3	1.9953	18.87	77.0903	0.03061614	1	Complies

EUT:	Wireless N150 Router	Model Name :	F9K1009v1
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	21.35	136.4583	0.05419390	1	Complies
3	1.9953	21.98	157.7611	0.06265423	1	Complies
3	1.9953	22.15	164.0590	0.06515539	1	Complies



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EUT:	Wireless N150 Router	Model Name :	F9K1009v1
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	21.17	130.9182	0.05199366	1	Complies
3	1.9953	21.05	127.3503	0.05057669	1	Complies
3	1.9953	21.80	151.3561	0.06011050	1	Complies

EUT:	Wireless N150 Router	Model Name :	F9K1009v1
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	21.47	140.2814	0.05571221	1	Complies
3	1.9953	21.50	141.2538	0.05609839	1	Complies
3	1.9953	21.82	152.0548	0.06038796	1	Complies

Note: the calculation distance is 20cm.