



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: QGH-47611-WG4

Project No. : 1401C081
Equipment : 300Mbps Dual Band 802.11n Wireless Gigabit Router
Model : 47611-WG4
Applicant : Leviton Manufacturing Co., Inc..
Address : 201 North Service Road Melville, NY 11747

According: : **FCC Guidelines for Human Exposure IEEE C95.1**

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—2.4G

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	Q5062	Dipole Antenna	N/A	2.53
2	N/A	Q5063	Dipole Antenna	N/A	2.83

Table for Filed Antenna--5G Band 1

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	Q5062	Dipole Antenna	N/A	3.8
2	N/A	Q5063	Dipole Antenna	N/A	3.72

Table for Filed Antenna--5G Band 4

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	Q5062	Dipole Antenna	N/A	3.54
2	N/A	Q5063	Dipole Antenna	N/A	3.57



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TEST RESULTS

EUT:	300Mbps Dual Band 802.11n Wireless Gigabit Router	Model Name :	47611-WG4
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

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	Note
3.57	2.2751	22.86	193.1968	0.08748838	1	Complies	5G
2.83	1.9187	24.15	260.0160	0.09930026			2.4G
				0.18678864			Total

The calculated distance is 20 cm