

FCC RF EXPOSURE REPORT

FCC ID: X4YVKG300

Equipment : Wireless-N 3G/4G Router
Model : ARN02304U5
Applicant : NEXXT SOLUTIONS
Address : 3505 N.W MIAMI, FL, 33178

**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)	Length
1	Tenda	Q5138	Dipole	N/A	4.82	80mm
2	Tenda	Q5142	Dipole	N/A	4.82	165mm

TEST RESULTS

EUT :	Wireless-N 3G/4G Router	Model Name :	ARN02304U5
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
4.82	3.0339	10.63	11.5611	0.00698153	1	Complies
4.82	3.0339	10.15	10.3514	0.00625101	1	Complies
4.82	3.0339	10.13	10.3039	0.00622229	1	Complies

EUT :	Wireless-N 3G/4G Router	Model Name :	ARN02304U5
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
4.82	3.0339	12.65	18.4077	0.01111605	1	Complies
4.82	3.0339	12.72	18.7068	0.01129667	1	Complies
4.82	3.0339	12.18	16.5196	0.00997586	1	Complies

EUT :	Wireless-N 3G/4G Router	Model Name :	ARN02304U5
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
4.82	3.0339	16.62	45.9198	0.02773003	1	Complies
4.82	3.0339	15.77	37.7572	0.02280081	1	Complies
4.82	3.0339	15.28	33.7287	0.02036809	1	Complies

EUT :	Wireless-N 3G/4G Router	Model Name :	ARN02304U5
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
4.82	3.0339	18.71	74.3019	0.04486941	1	Complies
4.82	3.0339	19.89	97.4990	0.05887764	1	Complies
4.82	3.0339	19.21	83.3681	0.05034431	1	Complies

Note: the calculated distance is 20 cm.