

# **FCC RF EXPOSURE REPORT**

**FCC ID: X4Y23091**

**Equipment : Wireless-N 3G/4G mobile router**

**Model : ARNPR154U2**

**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 .**

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

## 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	Tenda	Q5060	Internal	N/A	3.02	TX/RX

## TEST RESULTS

EUT :	Wireless-N 3G/4G mobile router	Model Name :	ARNPR154U2
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
3.02	2.0045	17.92	61.9441	0.02471442	1	Complies
3.02	2.0045	17.92	61.9441	0.02471442	1	Complies
3.02	2.0045	17.98	62.8058	0.02505823	1	Complies

EUT :	Wireless-N 3G/4G mobile router	Model Name :	ARNPR154U2
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
3.02	2.0045	16.86	48.5289	0.01936201	1	Complies
3.02	2.0045	17.13	51.6416	0.02060394	1	Complies
3.02	2.0045	16.86	48.5289	0.01936201	1	Complies

EUT :	Wireless-N 3G/4G mobile router	Model Name :	ARNPR154U2
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
3.02	2.0045	16.09	40.6443	0.01621625	1	Complies
3.02	2.0045	15.86	38.5478	0.01537979	1	Complies
3.02	2.0045	15.80	38.0189	0.01516877	1	Complies

EUT :	Wireless-N 3G/4G mobile router	Model Name :	ARNPR154U2
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
3.02	2.0045	21.07	127.9381	0.05104467	1	Complies
3.02	2.0045	21.10	128.8250	0.05139849	1	Complies
3.02	2.0045	21.01	126.1828	0.05034431	1	Complies

Note: the calculated distance is 20 cm.