

# **FCC RF EXPOSURE REPORT**

**FCC ID: X4Y23092**

**Project No. : 1502C027**  
**Equipment : Wireless AC dual-band router**  
**Model : ARN04904U1**  
**Applicant : NEXXT SOLUTIONS**  
**Address : 3505 N.W 107TH AVE,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)	Note
3	N/A	50001102	Dipole	N/A	4.92	2.4G
4	N/A	50001102	Dipole	N/A	4.92	2.4G
3	N/A	50001102	Dipole	N/A	4.85	5G
4	N/A	50001102	Dipole	N/A	4.85	5G

### 2.4G Only MPE

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
4.92	3.1046	23.58	228.0342	0.14091278	1	Complies

### 5G Only MPE

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
4.85	3.0549	27.59	574.1165	0.34910042	1	Complies

**So for 2.4G+5G simultaneous transmission MPE:**

$$0.1409/1 + 0.3491/1 = 0.4900 < 1$$