

FCC RF EXPOSURE REPORT

FCC ID:NDD9564281409

Project No. : 1412C251
Equipment : 5-in-1 N300 Wi-Fi Router;
Access Point & Range Extender
Model : BR-6438nS; BR-6428nS V3
Applicant : DIMAX TECHNOLOGY CO., LTD
Address : No.3, Wu-Chuan 3rd Road, Wu-Ku, New Taipei
city 24891, Taiwan

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
1	SY	AAT15000000	Dipole	N/A	4.61	TX/RX
2	SY	AAT15000000	Dipole	N/A	4.61	TX/RX

TEST RESULTS

EUT :	5-in-1 N300 Wi-Fi Router; Access Point & Range Extender	Model Name :	BR-6438nS; BR-6428nS V3
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
4.61	2.8907	19.04	80.1678	0.04612649	1	Complies
4.61	2.8907	20.53	112.9796	0.06500554	1	Complies
4.61	2.8907	18.96	78.7046	0.04528458	1	Complies

EUT :	5-in-1 N300 Wi-Fi Router; Access Point & Range Extender	Model Name :	BR-6438nS; BR-6428nS V3
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
4.61	2.8907	23.40	218.7762	0.12587816	1	Complies
4.61	2.8907	23.55	226.4644	0.13030179	1	Complies
4.61	2.8907	22.82	191.4256	0.11014134	1	Complies

EUT :	5-in-1 N300 Wi-Fi Router; Access Point & Range Extender	Model Name :	BR-6438nS; BR-6428nS V3
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
4.61	2.8907	23.46	221.8196	0.12762929	1	Complies
4.61	2.8907	23.46	221.8196	0.12762929	1	Complies
4.61	2.8907	22.83	191.8669	0.11039525	1	Complies

EUT :	5-in-1 N300 Wi-Fi Router; Access Point & Range Extender	Model Name :	BR-6438nS; BR-6428nS V3
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
4.61	2.8907	21.37	137.0882	0.07887700	1	Complies
4.61	2.8907	23.52	224.9055	0.12940480	1	Complies
4.61	2.8907	21.31	135.2073	0.07779476	1	Complies

Note: the calculated distance is 20 cm.