



FCC RF EXPOSURE REPORT

FCC ID: Y2PWRT300N-D6

Project No. : 1406C135
Equipment : Wireless Router
Model : WRT300N-D6
Applicant : Phonex Broadband Corporation
Address : 6952 S. High Tech Drive, Suite B Midvale, UT 84047

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

BTL 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

Ant.	Manufacturer	Model Name	Antenna Type	Connect or	Gain(dBi)
1	N/A	N/A	Dipole	N/A	5.0
2	N/A	N/A	Dipole	N/A	5.0

Note:

(1 The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R).

Operating Mode / TX Mode	1TX	2TX
802.11b	V (ANT 1 or ANT 2)	-
802.11g	V (ANT 1 or ANT 2)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)



TEST RESULTS

EUT :	Wireless Router	Model Name :	WRT300N-D6
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
5	3.1623	16.31	42.7563	0.02691227	1	Complies
5	3.1623	15.97	39.5367	0.02488573	1	Complies
5	3.1623	16.21	41.7830	0.02629967	1	Complies

EUT :	Wireless Router	Model Name :	WRT300N-D6
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
5	3.1623	21.25	133.3521	0.08393641	1	Complies
5	3.1623	21.71	148.2518	0.09331477	1	Complies
5	3.1623	21.36	136.7729	0.08608954	1	Complies



EUT :	Wireless Router	Model Name :	WRT300N-D6
Temperature :	25 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M Mode_Total		

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
5	3.1623	23.09	203.7042	0.12821840	1	Complies
5	3.1623	22.58	181.1340	0.11401195	1	Complies
5	3.1623	22.65	184.0772	0.11586449	1	Complies

EUT :	Wireless Router	Model Name :	WRT300N-D6
Temperature :	25 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M Mode_Total		

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
5	3.1623	23.07	202.7683	0.12762929	1	Complies
5	3.1623	23.16	207.0141	0.13030179	1	Complies
5	3.1623	22.7	186.2087	0.11720614	1	Complies

Note: the calculated distance is 20 cm.