



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: KA2IR815C1

Project No. : 1301C210A
Equipment : Wireless router
Model : DIR-815
Applicant : D-LINK Corporation
Address : No.289, Sinhu 3rd Rd., Neihu District Taipei City
114, Taiwan, R.O.C
According: : FCC Guidelines for Human Exposure IEEE C95.05.1

Neutron Engineering Inc.

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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 Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Airgain	N2430GND	Integral Antenna	N/A	3.0	
2	Airgain	N2430GND	Integral Antenna	N/A	3.0	

TEST RESULTS

EUT:	Wireless router	Model Name :	DIR-815
Temperature:	25° C	Relative Humidity:	58 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 1/TX A Mode/CH36, CH40, CH48		

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
3.0	1.9953	10.77	11.9399	0.00474188	1	Complies
3.0	1.9953	10.62	11.5345	0.00458090	1	Complies
3.0	1.9953	10.8	12.0226	0.00477475	1	Complies



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EUT:	Wireless router	Model Name :	DIR-815
Temperature:	25° C	Relative Humidity:	58 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 1/TX N20 Mode/CH36, CH40, CH48- ANT 1+ANT 2		

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
3.0	1.9953	11.86	15.3462	0.00609467	1	Complies
3.0	1.9953	11.81	15.1705	0.00602491	1	Complies
3.0	1.9953	11.88	15.4170	0.00612280	1	Complies

EUT:	Wireless router	Model Name :	DIR-815
Temperature:	25° C	Relative Humidity:	58 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 1/TX N40 Mode/CH38, CH46-ANT 1+ANT 2		

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
3.0	1.9953	10.21	10.4954	0.00416822	1	Complies
3.0	1.9953	10.27	10.6414	0.00422620	1	Complies

Note: the calculation distance is 20cm.