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**

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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	
2	Airgain	N2430GND	Integral Antenna	N/A	3	

TEST RESULTS

EUT：	Wireless router	Model Name ：	DIR-815
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1012 hPa	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
3	1.9953	18.87	77.0903	0.03061614	1	Complies
3	1.9953	19.05	80.3526	0.03191173	1	Complies
3	1.9953	19.08	80.9096	0.03213293	1	Complies

EUT：	Wireless router	Model Name ：	DIR-815
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1012 hPa	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
3	1.9953	22.96	197.6970	0.07851459	1	Complies
3	1.9953	22.72	187.0682	0.07429342	1	Complies
3	1.9953	22.98	198.6095	0.07887700	1	Complies

EUT：	Wireless router	Model Name ：	DIR-815
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX N20MHz 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
3	1.9953	22.98	198.6095	0.07887700	1	Complies
3	1.9953	23.63	230.6747	0.09161158	1	Complies
3	1.9953	23.35	216.2719	0.08589154	1	Complies

EUT：	Wireless router	Model Name ：	DIR-815
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX N40MHz MODE 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
3	1.9953	22.78	189.6706	0.07532695	1	Complies
3	1.9953	23.05	201.8366	0.08015865	1	Complies
3	1.9953	23.04	201.3724	0.07997429	1	Complies

Note: the calculation distance is 20cm.