



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: KA2IR825D1

Project No. : 1303C082
Equipment : Wireless router
Model : DIR-825
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	N/A	2.5	
2	Airgain))	N2430GND	Integral	N/A	2.5	



TEST RESULTS

EUT:	Wireless router	Model Name :	DIR-825
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 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
2.5	1.7783	18.85	76.7361	0.02716129	1	Complies
2.5	1.7783	18.53	71.2853	0.02523192	1	Complies
2.5	1.7783	18.98	79.0679	0.02798661	1	Complies

EUT:	Wireless router	Model Name :	DIR-825
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 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
2.5	1.7783	23.25	211.3489	0.07480840	1	Complies
2.5	1.7783	22.97	198.1527	0.07013751	1	Complies
2.5	1.7783	22.56	180.3018	0.06381906	1	Complies



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EUT:	Wireless router	Model Name :	DIR-825
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 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
2.5	1.7783	23.8	239.8833	0.08490834	1	Complies
2.5	1.7783	23.56	226.9865	0.08034343	1	Complies
2.5	1.7783	23.11	204.6445	0.07243532	1	Complies

EUT:	Wireless router	Model Name :	DIR-825
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 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
2.5	1.7783	22.72	187.0682	0.06621408	1	Complies
2.5	1.7783	22.72	187.0682	0.06621408	1	Complies
2.5	1.7783	22.58	181.1340	0.06411363	1	Complies

Note: the calculation distance is 20cm.