



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: KA2SL2730ET1**

**Project No. : 1304C040A**  
**Equipment : Wireless N 150 ADSL2+ Modem Router**  
**Model : DSL-2730E**  
**Applicant : D Link Corporation**  
**Address : 17595 Mt. Herrmann, Fountain Valley, California,**  
**United States**

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



## 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

Ant.	Manufacturer	S/N	Antenna Type	Connector	Gain (dBi)	Note
1	HL TECHNOLOGY GROUP LIMITED	800000000234	Dipole	N/A	2.3	



## TEST RESULTS

EUT:	Wireless N 150 ADSL2+ Modem Router	Model Name :	DSL-2730E
Temperature:	24 °C	Relative Humidity :	55 %
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.3	1.6982	17.26	53.2108	0.01798665	1	Complies
2.3	1.6982	17.45	55.5904	0.01879102	1	Complies
2.3	1.6982	17.49	56.1048	0.01896489	1	Complies

EUT:	Wireless N 150 ADSL2+ Modem Router	Model Name :	DSL-2730E
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.3	1.6982	22.15	164.0590	0.05545623	1	Complies
2.3	1.6982	22.04	159.9558	0.05406925	1	Complies
2.3	1.6982	22.37	172.5838	0.05833784	1	Complies



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EUT:	Wireless N 150 ADSL2+ Modem Router	EUT:	DSL-2730E
Temperature:	24 °C	Temperature:	60 %
Pressure:	1016 hPa	Pressure:	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.3	1.6982	21.43	138.9953	0.04698404	1	Complies
2.3	1.6982	21.57	143.5489	0.04852330	1	Complies
2.3	1.6982	21.62	145.2112	0.04908518	1	Complies

EUT:	Wireless N 150 ADSL2+ Modem Router	Model Name :	DSL-2730E
Temperature:	24 °C	Relative Humidity :	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.3	1.6982	20.17	103.9920	0.03515203	1	Complies
2.3	1.6982	20.32	107.6465	0.03638735	1	Complies
2.3	1.6982	20.44	110.6624	0.03740678	1	Complies

Note: the calculation distance is 20cm.