FCC RF EXPOSURE REPORT

FCC ID: KA2IR615X1

Project No.	**: 1908H006**
Equipment	**: Wireless N300 Router**
Model Name	**: DIR-615**
Series Model	**: DIR-612**
Applicant	**: D-Link Corporation**
Address	**: 17595Mt. Hermann, Fountain Valley, California United States 92708**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091**

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Certificate # 5123. 03

1. GENERAL SUMMARY

Equipment	:	Wireless N300 Router
Brand Name	:	D-Link
Test Model	:	DIR-615
Series Model	:	DIR-612
Applicant	:	D-Link Corporation
Date of Test	:	Jul. 15, 2019~Aug. 24, 2019
Test Sample	:	Engineering Sample No.: SH19081581
Standards	:	FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1908H006) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

2. 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:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Dipole	IPEX	5
2	N/A	N/A	Dipole	IPEX	5

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G_{ANT}**, that is Directional gain=5.

Table for Antenna Configuration:

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

3. TEST RESULTS

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
5	3.1623	29.61	914.1132	0.57537	1	Complies

Note: the calculated distance is 20 cm.

End of Test Report