

## RF Exposure Report

**Report No.:** SA150721D03

**FCC ID:** KA2SL2885AA1

**Test Model:** DSL-2885A

**Received Date:** Aug. 28, 2015

**Test Date:** Aug. 28 ~ Oct. 8, 2015

**Issued Date:** Nov. 25, 2015

**Applicant:** D-Link Corporation

**Address:** No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114, Taiwan, R.O.C.

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)



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### Release Control Record

Issue No.	Description	Date Issued
SA150721D03	Original release.	Nov. 25, 2015



## 1 Certificate of Conformity

**Product:** Wireless AC1200 Dual-Band Gigabit ADSL2+/VDSL2 Modem Router

**Brand:** D-Link

**Test Model:** DSL-2885A

**Sample Status:** Engineering sample

**Applicant:** D-Link Corporation

**Test Date:** Aug. 28 ~ Oct. 8, 2015

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D03

KDB 447498 D01

IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**

*Annie Chang*

**, Date:**

Nov. 25, 2015

Annie Chang / Senior Specialist

**Approved by :**

*Rex Lai*

**, Date:**

Nov. 25, 2015

Rex Lai / Assistant Manager

## 2 RF Exposure

### 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 25cm away from the body of the user.

So, this device is classified as **Mobile Device**.

### 3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	29.73	6.01	25	0.4774	1
5180-5240	24.83	8.01	25	0.2449	1
5745-5825	23.62	8.01	25	0.1853	1

**NOTE:**

2.4GHz: Directional gain = 3dBi + 10log(2) = 6.01dBi

5.0GHz: Directional gain = 5dBi + 10log(2) = 8.01dBi

**Conclusion:**

The formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.4774 + 0.2449 = 0.7223

**Therefore the maximum calculation of this situation is 0.7223, which is less than the "1" limit.**

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