



# RF EXPOSURE REPORT

**REPORT NO.:** SA120703C19 R1  
**MODEL NO.:** DAP-1320  
**FCC ID:** KA2AP1320A1  
**RECEIVED:** Jul. 03, 2012  
**TESTED:** Jul. 10 ~ Jul. 19, 2012  
**ISSUED:** Aug. 16, 2012

**APPLICANT:** D-Link Corporation

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

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**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120703C19	Original release	Jul.23, 2012
SA120703C19 R1	Revised product name	Aug. 16, 2012

## 1. CERTIFICATION

**PRODUCT:** Wireless Range Extender N300  
**MODEL NO.:** DAP-1320  
**BRAND:** D-Link  
**APPLICANT:** D-Link Corporation  
**TESTED:** Jul. 10 ~ Jul. 19, 2012  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**STANDARDS:** **FCC Part 2 (Section 2.1091)**  
**FCC OET Bulletin 65, Supplement C (01-01)**  
IEEE C95.1

The above equipment (model: DAP-1320) 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 : Ivy Lin , DATE : Aug. 16, 2012  
Ivy Lin / Specialist

APPROVED BY : Gary Chang , DATE : Aug. 16, 2012  
Gary Chang / Technical 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)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
802.11b	23.72	3.01	20	0.094	1
802.11g	27.23	3.01	20	0.210	1
802.11n (20MHz)	29.06	0	20	0.160	1
802.11n (40MHz)	28.17	0	20	0.131	1

**802.11b/g:** Directional gain = 0dBi + 10log(2) = 3.01dBi