

## RF EXPOSURE REPORT

**REPORT NO.:** SA111012C14

MODEL NO.: DAP-1533

**FCC ID:** KA2AP1533A1

**RECEIVED:** Sep. 30, 2011

**TESTED:** Sep. 30 ~ Oct. 24, 2011

**ISSUED:** Oct. 26, 2011

**APPLICANT:** D-Link Corporation

ADDRESS: 17595 Mt. Herrmann, Fountain Valley, CA

92708, U.S.A.

**ISSUED BY:** Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,

New Taipei City, Taiwan (R.O.C)

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

Shan Hsiang, Taoyuan Hsien 333, Taiwan,

R.O.C.

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# **TABLE OF CONTENTS**

RELEA	ASE CONTROL RECORD	. 3
1.	CERTIFICATION	. 4
2.	RF EXPOSURE	. 5
2.1	LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	. 5
	MPE CALCULATION FORMULA	
2.3	CLASSIFICATION	. 5
2.4	CALCULATION RESULT OF MAXIMUM CONDUCTED POWER	6



### **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
Original release	NA	Oct. 26, 2011	



#### 1. CERTIFICATION

PRODUCT: Wireless N450 MediaBridge®/Access Point

MODEL: DAP-1533

**BRAND:** D-Link

**APPLICANT:** D-Link Corporation

**TESTED:** Sep. 30 ~ Oct. 24, 2011

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-1533) 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 : , DATE : Oct. 26, 2011

APPROVED BY : , DATE : Oct. 26, 2011

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/cm²)	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\*r2)

where

Pd = power density in mW/cm2

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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



#### 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MODULATION MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
	802.11b	23.8	6.8	20	0.228	1
2412-2462	802.11g	29.0	6.8	20	0.756	1
2412-2402	802.11n (20MHz)	28.7	6.8	20	0.706	1
	802.11n (40MHz)	25.8	6.8	20	0.362	1
	802.11a	15.0	7.8	20	0.038	1
5180-5240	802.11n (20MHz)	14.9	7.8	20	0.037	1
	802.11n (40MHz)	15.1	7.8	20	0.039	1
	802.11a	28.1	7.8	20	0.774	1
5745-5825	802.11n (20MHz)	27.8	7.8	20	0.722	1
	802.11n (40MHz)	27.7	7.8	20	0.706	1

#### NOTE:

**802.11b & 802.11g:** Directional gain =2dBi + 10log(3)=6.8dBi

**802.11a:** Directional gain =3dBi + 10log(3)=7.8dBi