

RF Exposure Report

Report No.: SA170801C10

FCC ID: KA2WL7620APA1

Model: DWL-7620AP

Received Date: Aug. 01, 2017

Test Date: Aug. 07 ~ Aug. 30, 2017

Issued Date: Sep. 12, 2017

Applicant: D-Link Corporation

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

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33383, TAIWAN (R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
SA170801C10	Original release	Sep. 12, 2017



1 Certificate of Conformity

Product: Unified AC Tri-band PoE Access Point

Brand: D-Link Corporation

Model: DWL-7620AP

Sample Status: Identical Prototype

Applicant: D-Link Corporation

Test Date: Aug. 07 ~ Aug. 30, 2017

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03 (January 17, 2014)

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 RF characteristics under the conditions specified in this report.

Prepared by : , Date: Sep. 12, 2017

Pettie Chen / Senior Specialist

Approved by: , **Date:** Sep. 12, 2017

Ken Liu / Senior 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 ²)	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/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 25cm away from the body of the user. So, this device is classified as **Mobile Device**.

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3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)			
CDD Mode								
2412-2462	27.20	6.26	25	0.282	1			
5180-5240	28.86	7.31	25	0.527	1			
5745-5825	29.81	7.31	25	0.656	1			
Beamforming Mode								
2412-2462	23.88	6.26	25	0.131	1			
5180-5240	24.58	7.31	25	0.197	1			
5745-5825	26.35	7.31	25	0.296	1			

Note:

2.4GHz Band: Directional gain = 3.25dBi + 10log(2) = 6.26dBi 5GHz Band: Directional gain = 4.3dBi +10log (2) = 7.31dBi

Conclusion:

2.4GHz & 5GHz Band 1 or 2.4GHz & 5GHz Band 4 can transmit at same time.

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

- 1. WLAN 2.4GHz + WLAN 5GHz Band 1 = 0.282 + 0.527 = 0.809
- 2. WLAN 2.4GHz + WLAN 5GHz Band 4 = 0.282 + 0.656 = 0.938

Therefore the maximum calculations of above situations are less than the "1" limit.

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