

RF Exposure Report			
Report No.:	SA170801C12		
FCC ID:	KA2WL6620APSA1		
Test Model:	DWL-6620APS		
Received Date:	Aug. 01, 2017		
Test Date:	Aug. 22 ~ Sep. 11, 2017		
Issued Date:	Sep. 12, 2017		
	D-Link Corporation 17595 Mt. Herrmann, Fountain Valley, California, United States, 92708		
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.)		
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)		
FCC Registration / Designation Number:	788550 / TW0003		



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Release Control Record

Issue No.	Description	Date Issued
SA170801C12	Original release.	Sep. 12, 2017



1 Certificate of Conformity

Product:	Unified AC Concurrent Dual-band PoE Access Point
Brand:	D-Link Corporation
Test Model:	DWL-6620APS
Sample Status:	Identical Prototype
Applicant:	D-Link Corporation
Test Date:	Aug. 22 ~ Sep. 11, 2017
Standards:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 General RF Exposure Guidance v06
	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 :	Celine Choy	, Date:	Sep. 12, 2017	
	Celine Chou / Specialist			

Approved by :

Ken Liu / Senior Manager

Date: Sep. 12, 2017



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Magnetic Field Strength (V/m) 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

 $\begin{array}{l} Pd = (Pout^*G) \ / \ (4^*pi^*r^2) \\ where \\ Pd = power density in mW/cm^2 \\ Pout = output power to antenna in mW \\ G = gain of antenna in linear scale \\ Pi = 3.1416 \\ R = distance between observation point and center of the radiator in cm \end{array}$

2.3 Classification

The antenna of this product, under normal use condition, is at least 29cm 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 ²)	Limit (mW/cm ²)	
	CDD Mode					
2412-2462	27.70	7.91	29	0.344	1	
5180-5240	27.82	9.11	29	0.467	1	
5745-5825	28.88	9.11	29	0.596	1	
Beamforming Mode						
2412-2462	24.53	7.91	29	0.166	1	
5180-5240	24.81	9.11	29	0.233	1	
5745-5825	25.87	9.11	29	0.298	1	

Note:

2.4GHz Directional gain = 4.9dBi + $10\log(2) = 7.91$ dBi 5GHz Directional gain = 6.10dBi + $10\log(2) = 9.11$ dBi

Conclusion:

2.4GHz & 5GHz technology 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

WALN 2.4GHz + WALN 5GHz = 0.344 + 0.596 = 0.940

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

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