RF Exposure Report

Report No.:	SA190412C02B
FCC ID:	KA2BA2620PA1
Original FCC ID:	KA2WL6620APSA1
Test Model:	DBA-2620P
Received Date:	Nov. 11, 2019
Test Date:	Dec. 03, 2019 ~ Jan. 07, 2020
Issued Date:	Feb. 21, 2020
Applicant:	D-Link Corporation
Address:	17595 Mt. Herrmann, Fountain Valley, California, United States, 92708
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
SA190412C02B	Original release	Feb. 21, 2020

1 Certificate of Conformity

Product:	Business Cloud Access Point / Nuclias Cloud-Managed AC1300 Wave 2 Access Point
Brand:	D-Link Corporation
Model:	DBA-2620P
Sample Status:	Identical Prototype
Applicant:	D-Link Corporation
Test Date:	Dec. 03, 2019 ~ Jan. 07, 2020
Standards:	FCC Part 2 (Section 2.1091) IEEE C95.3 -2002
References Test Guidance:	KDB 447498 D01 General RF Exposure Guidance v06

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 : Pettie Chen , **Date:** Feb. 21, 2020

Pettie Chen / Senior Specialist

Approved by : Bruce Chen , **Date:** Feb. 21, 2020

Bruce Chen / Senior Project Engineer

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				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

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

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

2.3 Classification

The antenna of this product, under normal use condition, is at least 28cm 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)
2412-2462	27.57	7.91	28	0.358	1
5180-5240	27.39	9.11	28	0.453	1
5260-5320	22.53	9.11	28	0.148	1
5500-5720	23.42	9.11	28	0.182	1
5745-5825	28.66	9.11	28	0.607	1

*Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Note:
2.4GHz Directional gain = 4.9dBi + 10log(2) = 7.91dBi
5.0GHz Directional gain = 6.1dBi + 10log(2) = 9.11dBi

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 = 0.358 + 0.607 = 0.965

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

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