Report No.:	SA160822E04N
FCC ID:	KA2AP2610A1
Test Model:	DAP-2610
Received Date:	Oct. 24, 2017
Test Date:	Nov. 15, 2017
Issued Date:	Dec. 01, 2017
Applicant:	D-Link Corporation
Address:	No.289, Xinhu 3rd Rd., Neihu District, Taipei City 11494, Taiwan, R.O.C.
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.

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Report Issue History Record

Attachment No.	Issue Date	Description
SA160822E04	Oct. 28, 2016	Original release.
SA160822E04N	Dec. 01, 2017	Add DFS band <5.26~ 5.32GHz, 5.50 ~ 5.58GHz & 5.66 ~ 5.70GHz >

Release Control Record

Issue No.	Description	Date Issued
SA160822E04N	Original release.	Dec. 01, 2017

1 Certificate of Conformity

Product:	Wireless AC1300 Concurrent Dual Band PoE Access Point
Brand:	D-Link
Test Model:	DAP-2610
Sample Status:	ENGINEERING SAMPLE
Applicant:	D-Link Corporation
Test Date:	Nov. 15, 2017
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

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 EMC characteristics under the conditions specified in this report.

Prepared by : Mary Ko , **Date:** Dec. 01, 2017

Mary Ko / Specialist

Approved by : , **Date:** Dec. 01, 2017

May Chen / 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/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 22cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Antenna No	Brand	Model	Antenna Gain (dBi) <Including cable loss>	Frequency range (GHz ~ GHz)	Antenna Type	Connecter Type	Cable Length (mm)
Chain (1)	NA	290-20302	3.07	2.4~2.4835	PIFA	i-pex(MHF)	47
			3.46	5.15~5.85			
Chain (2)	NA	290-20301	2.85	2.4~2.4835	PIFA	i-pex(MHF)	81
			3.75	5.15~5.85			

2.5 Calculation Result of Maximum Conducted Power

For 2.4GHz, 5GHz (U-NII-1 & UNII-3 band) data was copied from the original test report (Report No.: SA160822E04)

Frequency Band (MHz)	Max. Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2412-2462	861.713	5.97	22	0.56015	1
5180-5240	426.809	6.62	22	0.32224	1
5260-5320	210.368	6.62	22	0.15883	1
5500-5580 5660-5700	198.556	6.62	22	0.14991	1
5745-5825	459.267	6.62	22	0.34674	1

NOTE:
2.4GHz: Directional gain = 10 log[$(10^{G0/20} + 10^{G1/20})^2$ / 2] = 5.97dBi
5GHz: Directional gain = 10 log[$(10^{G0/20} + 10^{G1/20})^2$ / 2] = 6.62dBi

Conclusion:

The formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.56015 / 1 + 0.34674 / 1 = 0.90689

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

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