

Report No.:SA160822E04NFCC ID:KA2AP2610A1Test Model:DAP-2610Received Date:Oct. 24, 2017Test Date:Nov. 15, 2017Issued Date:Dec. 01, 2017Applicant:D-Link CorporationAddress: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<br/>Hsin Chu LaboratoryLab Address:E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,<br/>Taiwan R.O.C.

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			VERITAS
		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
SA160822E04N	Original release		Dec. 01, 2017
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## 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.

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Approved by :	May Chen / Manager	, Da	te:	Dec. 01, 2017	



# 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)			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=""></including>	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
Chain (1)			3.46	5.15~5.85			
Chain (2)	NA 290	290-20301	2.85	2.4~2.4835			04
Chain (2)			3.75	5.15~5.85	PIFA	i-pex(MHF)	81



### 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 <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
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 =  $10 \log[(10^{G0/20} + 10^{G1/20})^2 / 2] = 5.97$ dBi 5GHz: Directional gain =  $10 \log[(10^{G0/20} + 10^{G1/20})^2 / 2] = 6.62$ dBi

### **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 = 0.90689Therefore the maximum calculations of above situations are less than the "1" limit.

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