	BUREA VERITA	U S
	RF Exposure Report	
Report No.:	SA181009E01	
FCC ID:	KA2AP2620A1	
Test Model:	DAP-2620	
Received Date:	Oct. 09, 2018	
Test Date:	Oct. 17, 2018	
Issued Date:	Mar. 08, 2019	
Applicant:	D-Link Corporation	
Address:	17595 Mt. Herrmann Street Fountain Valley, CA92708 USA	
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.	
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.	
FCC Registration / Designation Number:	723255 / TW2022	
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Release Control Record					
Issue No.	Description	Date Issued			
SA181009E01	Original release.	Mar. 08, 2019			



1 Certificate of Conformity

Product:	Wireless AC1200 Wave 2 Dual-Band wall-plate PoE AP
Brand:	D-Link
Test Model:	DAP-2620
Sample Status:	ENGINEERING SAMPLE
Applicant:	D-Link Corporation
Test Date:	Oct. 17, 2018
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 Mary Ko / Specialist	_, Date:	Mar. 08, 2019	
Approved by :	May Chen / Manager	_, Date:	Mar. 08, 2019	



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/f²)*	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 24cm away from the body of the user. So, this device is classified as **Mobile Device**.



2.4 Antenna Gain

Ant No.	Transmitter Circuit	Antenna Gain (dBi)	Frequency rang (GHz)	Antenna type	Connector type	Cable Length (mm)
1	Chain (1)	3	2.4~2.4835	PCB	i-pex(MHF)	55
1 Chain (1)		4.5	5.15~5.85	PCB	i-pex(MHF)	55
2	Chain (0)	2.8	2.4~2.4835	PCB	i-pex(MHF)	25
2 (Chain (0)	4.1	5.15~5.85	PCB	i-pex(MHF)	35

2.5 Calculation Result

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2.4GHz	2437	764.733	5.91	24	0.41198	1
WLAN U-NII-1	5200	425.632	7.31	24	0.31652	1
WLAN U-NII-3	5745	690.333	7.31	24	0.51336	1

Note:

2.4GHz: The directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2] = 5.91dBi 5GHz$: The directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2] = 7.31dBi$

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 = 0.41198 / 1 + 0.51336 / 1 = 0.92534

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

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