

RF Exposure Report

Report No.: SA181009E01A

FCC ID: KA2AP2620A1

Test Model: DAP-2620

Received Date: Oct. 09, 2018

Test Date: Nov. 14, 2018

Issued Date: Mar. 27, 2019

Applicant: D-Link Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

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FCC Registration / Designation Number:

723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
SA181009E01A	Original release.	Mar. 27, 2019

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Report No.: SA181009E01A Reference No.: 181009E02



Certificate of Conformity 1

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: Nov. 14, 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.

Phoenix Huang / Specialist Mar. 27, 2019

Approved by: Date: Mar. 27, 2019

May Chen / Manager



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Power Density Strength (A/m) (mW/cm²)		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/cm²

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		4.5	5.15~5.85	PCB	i-pex(MHF)	55
2	Chain (0)	2.8	2.4~2.4835	PCB	i-pex(MHF)	35
		4.1	5.15~5.85	PCB	i-pex(MHF)	33

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2.5 Calculation Result of Maximum Conducted Power

For 2.4GHz and 5GHz (U-NII-3 band) data was copied from the original test report (Report No.: SA181009E01)

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
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 5GHz U-NII-2A	5270	244.474	7.31	24	0.18180	1
WLAN 5GHz U-NII-2C	5550	229.306	7.31	24	0.17052	1
WLAN 5GHz 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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