

RF Exposure Report

Report No.: SA170116E03L

FCC ID: KA2IR882A1

Test Model: DIR-882

Received Date: Dec. 19, 2018

Test Date: Mar. 20, 2019

Issued Date: Apr. 16, 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
SA170116E03L	Original release.	Apr. 16, 2019

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1 Certificate of Conformity

Product: AC2600 MU-MIMO Wi-Fi Gigabit Router

Brand: D-Link

Test Model: DIR-882

Sample Status: ENGINEERING SAMPLE

Applicant: D-Link Corporation

Test Date: Mar. 20, 2019

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.

Wendy Wu / Specialist

Approved by : , **Date:** Apr. 16, 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 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/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 38cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Frequency Range (GHz)	Directional Antenna Gain (dBi)	Antenna Type	Connector Type		
2.4~2.4835	10.06	Dipole	i-pex(MHF)		
5.15~5.85	10.90	Dipole	i-pex(MHF)		
Note: More detailed information, please refer to operating description.					

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2.5 Calculation Result of Maximum Conducted Power

All test data was copied from the original test report (Report No.: SA70116E03)

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
2412-2462	788.724	10.06	38	0.44070	1
5745-5825	655.424	10.90	38	0.44437	1

NOTE:

2.4GHz: Directional gain =10.06dBi 5GHz: Directional gain = 10.90dBi

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 = 0.44070/1 + 0.44437/1 = 0.88507

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

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