

# FCC RF EXPOSURE REPORT

## FCC ID: KA2CHS163A1

**Project No.** : 2009H045  
**Equipment** : DCH-S163 A1  
**Brand Name** : D-Link  
**Test Model** : DCH-S163 A1  
**Series Model** : N/A  
**Applicant** : D-Link Corporation  
**Address** : 17595 Mt. Herrmann, Fountain Valley, California United State 92708  
**Manufacturer** : D-Link Corporation  
**Address** : No.289, Sinhu 3rd Rd., Neihu Distrit Taipei Taiwan  
**Date of Receipt** : Oct. 13, 2020  
**Date of Test** : Oct. 13, 2020~Oct. 30, 2020  
**Issued Date** : Dec. 14, 2020  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: SH20201010127, SH20201010128, SH20201010127-1  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 14, 2020

## 1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

For 915MHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	IFA	N/A	0.62

Note:

The antenna gain is provided by the manufacturer.

## 2. TEST RESULTS

For 915MHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
0.62	1.1535	18	63.0957	0.0145	0.61	Complies

Note: The calculated distance is 20 cm.

Output power including tune up tolerance.

Limit of Power Density=f/1500.

f= frequency in MHz. \* = Plane-wave equivalent power density.

**End of Test Report**