

RF Exposure Report

Report No.: SA150507D03

FCC ID: PD5-RV134W

Test Model: RV134W

Received Date: May 7, 2015

Test Date: May 21 ~ Jun. 9, 2015

Issued Date: Jul. 8, 2015

Applicant: Delta Networks, Inc.

Address: No. 252, Shang Ying Rd., Kuei San District, Taoyuan City 33341 Taiwan

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

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Release Control Record

| Issue No. | Description | Date Issued |
|-------------|-------------------|--------------|
| SA150507D03 | Original release. | Jul. 8, 2015 |

1 Certificate of Conformity

Product: Wireless-AC VPN Router

Brand: CISCO

Test Model: RV134W

Sample Status: Engineering sample

Applicant: Delta Networks, Inc.

Test Date: May 21 ~ Jun. 9, 2015

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03

IEEE C95.1

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 :



Date: Jul. 8, 2015

Jessica Cheng / Senior Specialist

Approved by :



Date: Jul. 8, 2015

Rex Lai / Assistant 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 | | | | |
| 300-1500 | ... | ... | F/1500 | 30 |
| 1500-100,000 | ... | ... | 1.0 | 30 |

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 26cm away from the body of the user.
So, this device is classified as **Mobile Device**.

3 Calculation Result Of Maximum Conducted Power

| Frequency Band (MHz) | Max Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm ²) | Limit (mW/cm ²) |
|----------------------|-----------------|--------------------|---------------|-------------------------------------|-----------------------------|
| 2412-2462 | 29.69 | 6.74 | 26 | 0.5174 | 1 |
| 5180-5240 | 16.98 | 6.92 | 26 | 0.0289 | 1 |
| 5260-5320 | 23.98 | 6.92 | 26 | 0.1448 | 1 |
| 5500-5700 | 23.56 | 6.92 | 26 | 0.1315 | 1 |
| 5745-5825 | 23.58 | 6.92 | 26 | 0.1321 | 1 |

NOTE:

2.4GHz: Directional gain = 3.73dBi + 10log(2) = 6.74dBi

5.0GHz: Directional gain = 3.91dBi + 10log(2) = 6.92dBi

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 = 0.5174 + 0.1448 = 0.6622

Therefore the maximum calculation of this situation is 0.6622, which is less than the "1" limit.

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