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
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)

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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 : Jessica Cheng , **Date:** Jul. 8, 2015

Jessica Cheng / Senior Specialist

Approved by : Rex. Lai , **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

$Pd = (Pout*G) / (4*pi*r^2)$

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 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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