

RF Exposure Report

Report No.: SA130903C26I

FCC ID: ZHV-DTAGA

Test Model: DTAGA

Received Date: Sep. 03, 2013

Test Date: Sep. 06, 2013 ~ Apr. 12, 2016

Issued Date: Apr. 19, 2016

Applicant: Riverbed Technology Inc.

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

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Release Control Record

Issue No.	Description	Date Issued
SA130903C26I	Original release.	Apr. 19, 2016

1 Certificate of Conformity

Product: Wireless Access Point

Brand: riverbed

Test Model: DTAGA

Sample Status: Engineering sample

Applicant: Riverbed Technology Inc.

Test Date: Sep. 06, 2013 ~ Apr. 12, 2016

Standard: FCC Part 2 (Section 2.1091)
KDB 447498 D01 (October 23, 2015)
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 :


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Date:

Apr. 19, 2016

Approved by :


Ken Liu / Senior Manager

Date:

Apr. 19, 2016

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

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

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 32cm 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	27.00	9.80	32	0.372	1
5180-5240	24.76	11.77	32	0.350	1
5745-5825	27.11	11.77	32	0.600	1

Note:

1. 2.4GHz Band: Directional gain = 5dBi + 10log(3) = 9.80dBi
2. 5GHz Band: Directional gain = 7dBi + 10log(3) = 11.77dBi

Conclusion:

The formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.372 + 0.600 = 0.972

Therefore the maximum calculations of above situation is less than the "1" limit.

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