RF Exposure Report

Report No.: SA150513C25A

FCC ID: E2K-APL280B5

Model: APL28-0B5

Received Date: May 13, 2015

Test Date: Jun. 01 ~ Jun. 09, 2015

Issued Date: Jun. 25, 2015

Applicant: Dell Inc.

Address: One Dell Way, Round Rock, Texas 78682, USA

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

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Release Control Record

Issue No.	Description	Date Issued
SA150513C25A	Original release	Jun. 25, 2015

1 Certificate of Conformity

Product:	Wireless Network Security Appliance
Brand:	DELL, DELL SONICWALL, SONICWALL
Model:	APL28-0B5
Sample Status:	Engineering sample
Applicant:	Dell Inc.
Test Date:	Jun. 01 ~ Jun. 09, 2015
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-2005

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 : Celine Chou , **Date:** Jun. 25, 2015

Celine Chou / Specialist

Approved by : Ken Liu , **Date:** Jun. 25, 2015

Ken Liu / Senior 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 21cm 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	29.78	7.44	21	0.951	1
5180-5240	23.73	7.44	21	0.236	1
5260-5320	23.55	7.44	21	0.227	1
5500-5700	22.71	7.44	21	0.187	1
5745-5825	19.73	7.44	21	0.094	1

Note: 2.4GHz & 5GHz: Directional gain $=10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/3] = 7.44$dBi

*The 2.4 and 5GHz cannot transmit simultaneously.

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