

RF Exposure Report

Report No.: SA15013C20A

FCC ID: E2K-APL290B7

Test Model: APL29-0B7

Received Date: May 13, 2015

Test Date: May 28 ~ Jun. 03, 2015

Issued Date: Jun. 23, 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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33383, TAIWAN (R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
SA15013C20A	Original release.	Jun. 23, 2015

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Report No.: SA150513C20A Reference No.: 150513C21



1 Certificate of Conformity

Product: Wireless Network Security Appliance

Brand: DELL, DELL SONICWALL, SONICWALL

Test Model: APL29-0B7

Sample Status: Engineering sample

Applicant: Dell Inc.

Test Date: May 28 ~ Jun. 03, 2015

Standards: 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: , Date: Jun. 23, 2015

Polly Chien / Specialist

Approved by : Jun. 23, 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/cm²

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 23cm 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/cm²)
2412-2462	29.56	7.44	23	0.754	1
5180-5240	23.91	7.44	23	0.205	1
5260-5320	23.58	7.44	23	0.190	1
5500-5700	21.94	7.44	23	0.130	1
5745-5825	20.66	7.44	23	0.097	1

Note:

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

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^{*}The 2.4 and 5GHz cannot transmit simultaneously.