

## RF Exposure Report

**Report No.:** SA140729D01A

**FCC ID:** WLQOMNISB1PLUSRX

**Test Model:** Omni SB1 Plus Sub

**Received Date:** Dec. 10, 2015

**Test Date:** Dec. 14 ~ 17, 2015

**Issued Date:** Dec. 22, 2015

**Applicant:** Polk Audio

**Address:** 5601 Metro Drive Baltimore Maryland 21215 United States

**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
SA140729D01A	Original release.	Dec. 22, 2015

## 1 Certificate of Conformity

**Product:** Sub-woofer

**Brand:**



**Test Model:** Omni SB1 Plus Sub

**Sample Status:** Engineering sample

**Applicant:** Polk Audio

**Test Date:** Dec. 14 ~ 17, 2015

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D03

KDB 447498 D01

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 :** Annie Chang , **Date:** Dec. 22, 2015  
Annie Chang / Senior Specialist

**Approved by :** Rex Lai , **Date:** Dec. 22, 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 <sup>2</sup> )	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/cm<sup>2</sup>

$P_{out}$  = 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 20cm 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 <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2403.5~ 2477.3	5.54	1.82	20	0.0011	1

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