



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: WLQSB9000IHTTX**

**Project No.** : 1209061  
**Equipment** : SurroundBar 9000 Instant Home Theater  
**Model** : SURROUNDBAR 9000 SPEAKER  
**Applicant** : Polk Audio, Inc.  
**Address** : 5601 Metro Drive Baltimore, MD21215  
  
**According:** : FCC Guidelines for Human Exposure IEEE C95.1

***Neutron Engineering Inc.***

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### MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	3.3

### TEST RESULTS

EUT:	SurroundBar 9000 Instant Home Theater	Model Name :	SURROUNDBAR 9000 SPEAKER
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH01/CH25/CH49		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
<b>3.3</b>	<b>2.1380</b>	<b>18.44</b>	<b>69.8232</b>	<b>0.02971326</b>	<b>1</b>	<b>Complies</b>
3.3	2.1380	17.49	56.1048	0.02387538	1	Complies
3.3	2.1380	16.84	48.3059	0.02055656	1	Complies