

# **FCC RF EXPOSURE REPORT**

**FCC ID: RWO-RZ0502470**

**Project No. : 1804C081**  
**Equipment : 2.1Gaming Speaker**  
**Model : RZ05-02470**  
**Applicant : Razer Inc.**  
**Address : 201 3rd Street, Suite 900, San Francisco, CA  
94103,USA**

**According: : FCC Guidelines for Human Exposure IEEE  
C95.1 & FCC Part 2.1091**

## **B T L I N C .**

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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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	AB15XX	PCB antenna	N/A	2.3

## TEST RESULTS

EUT :	2.1 Gaming Speaker	Model Name :	RZ05-02470
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

### BT

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
2.3	1.6982	3.98	2.5003	0.00085	1	Complies

### LE

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
2.3	1.6982	3.84	2.4210	0.00082	1	Complies

Note: the calculated distance is 20 cm.