

# **FCC RF EXPOSURE REPORT**

## **FCC ID: 2AA7Y-SPATIA**

**Project No.** : 1407010  
**Equipment** : WIRELESS SPEAKER SYSTEM  
**Model** : Spatia  
**Applicant** : Aevoe Inc.  
**Address** : 14F-1, No.456, Sec.4, Xinyi Rd., Taipei City,  
Taiwan

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

**BTL 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

Table for Filed Antenna

| Ant. | Brand  | Model Name                   | Antenna Type | Connector | Gain(dBi) | Note |
|------|--------|------------------------------|--------------|-----------|-----------|------|
| 1    | M.gear | C147-510857-A<br>(SSR-20163) | PCB Antenna  | MHF       | 3.07      | TX   |
| 2    | M.gear | C147-510857-A<br>(SSR-20163) | PCB Antenna  | MHF       | 3.07      | RX   |

## TEST RESULTS

|                |                             |                    |        |
|----------------|-----------------------------|--------------------|--------|
| EUT :          | WIRELESS SPEAKER SYSTEM     | Model Name :       | Spatia |
| Temperature :  | 22 °C                       | Relative Humidity: | 60 %   |
| Test Voltage : | AC 120V/60Hz                |                    |        |
| Test Mode :    | TX B MODE /CH01, CH06, CH11 |                    |        |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3.07               | 2.0277                 | -5.79                   | 0.2636                 | 0.00010640                              | 1  | Complies    |
| 3.07               | 2.0277                 | -5.49                   | 0.2825                 | 0.00011401                              | 1  | Complies    |
| 3.07               | 2.0277                 | -5.62                   | 0.2742                 | 0.00011065                              | 1  | Complies    |

|                |                             |                    |        |
|----------------|-----------------------------|--------------------|--------|
| EUT :          | WIRELESS SPEAKER SYSTEM     | Model Name :       | Spatia |
| Temperature :  | 22 °C                       | Relative Humidity: | 60 %   |
| Test Voltage : | AC 120V/60Hz                |                    |        |
| Test Mode :    | TX G MODE /CH01, CH06, CH11 |                    |        |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 3.07               | 2.0277                 | 3.44                    | 2.2080                 | 0.00089115                              | 1  | Complies    |
| 3.07               | 2.0277                 | 3.22                    | 2.0989                 | 0.00084713                              | 1  | Complies    |
| 3.07               | 2.0277                 | 3.03                    | 2.0091                 | 0.00081087                              | 1  | Complies    |

Note: the calculated distance is 20 cm.