



**Neutron Engineering Inc.**

## **FCC RF EXPOSURE REPORT**

**FCC ID: PVBEMJA003MI**

**Project No.** : 1208C241  
**Equipment** : Bag of Riddim Bluetooth Audio System with  
USB port  
**Model** : EM-JA003-MI  
**Applicant** : The House of Marley, LLC  
**Address** : 3000 Pontiac Trail Commerce Township ,  
Oakland, Michigan, United States  
  
**According:** : FCC Guidelines for Human Exposure IEEE C95.1

***Neutron Engineering Inc.***

***No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.***

***TEL : (0769) 8318-3000 FAX : (0769) 8319-6000***



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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        | PIFA Antenna | N/A       | -1.95      |

### TEST RESULTS

|              |                                      |                    |              |
|--------------|--------------------------------------|--------------------|--------------|
| EUT:         | Bag of Riddim Bluetooth Audio System | Model Name :       | EM-JA003-MI  |
| Temperature: | 25 °C                                | Relative Humidity: | 58 %         |
| Pressure:    | 1009 hPa                             | Test Voltage :     | AC 120V/60Hz |
| Test Mode :  | CH00/ CH39 /CH78 -1Mbps              |                    |              |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| -1.95              | 0.6383                 | 6.61                    | 4.5814                 | 0.000582                                | 1                                                | Complies    |
| -1.95              | 0.6383                 | 5.81                    | 3.8107                 | 0.000484                                | 1                                                | Complies    |
| -1.95              | 0.6383                 | 5.2                     | 3.3113                 | 0.000421                                | 1                                                | Complies    |

|              |                                      |                    |              |
|--------------|--------------------------------------|--------------------|--------------|
| EUT:         | Bag of Riddim Bluetooth Audio System | Model Name :       | EM-JA003-MI  |
| Temperature: | 25 °C                                | Relative Humidity: | 58 %         |
| Pressure:    | 1009 hPa                             | Test Voltage :     | AC 120V/60Hz |
| Test Mode :  | CH00/ CH39 /CH78 -3Mbps              |                    |              |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| -1.95              | 0.6383                 | 4.97                    | 3.1405                 | 0.000399                                | 1                                                | Complies    |
| -1.95              | 0.6383                 | 4.28                    | 2.6792                 | 0.000340                                | 1                                                | Complies    |
| -1.95              | 0.6383                 | 3.71                    | 2.3496                 | 0.000299                                | 1                                                | Complies    |