FCC 47 CFR MPE REPORT

INMUSIC BRANDS INC

Solid State Media/Bluetooth Player

Model Number: DN-F350

Project Code: DP24

FCC ID: Y4O-DP24

| Prepared for: | d for: INMUSIC BRANDS INC | | | | |
|--------------------------|---|--|--|--|--|
| | 200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND,RI | | | | |
| | 02864,U.S.A. | | | | |
| Prepared By: | EST Technology Co., Ltd. | | | | |
| | San Tun Management Zone, Houjie District, Dongguan, China | | | | |
| Tel: 86-769-83081888-808 | | | | | |

| Report Number: | ESTE-R1705003 | | | |
|-----------------|---------------------------|--|--|--|
| Date of Test: | March 16 ~ April 27, 2017 | | | |
| Date of Report: | May 02, 2017 | | | |



Maximum Permissible Exposure

1. Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

| Frequency | Electric Field | Magnetic | Power | Averaging | |
|-------------|----------------|----------------|-------------|----------------|--|
| Range (MHz) | Strength E) | Field Strength | Density (S) | Times E | |
| | (V/m) | (H) (A/m) | (mW/cm2) | 2 , H 2 or | |
| | | | | S (minutes) | |
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 | |
| 3.0-30 | 1842/f | 4.89/f | (900/f)* | 6 | |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 | |
| 300-1500 | | | F/300 | 6 | |
| 1500-10000 | | | 5 | 6 | |

(b). Limits for General Population / Uncontrolled Exposure

| Electric Field | Magnetic | Power | Averaging | |
|----------------|--------------------------------------|--|---|--|
| Strength E) | Field Strength | Density (S) | Times E | |
| (V/m) | (H) (A/m) | (mW/cm2) | 2, H 2 or | |
| | | | S (minutes) | |
| 614 | 1.63 | (100)* | 30 | |
| 824/f | 2.19/f | (180/f)* | 30 | |
| 27.5 | 0.073 | 0.2 | 30 | |
| | | F/1500 | 30 | |
| | | 1.0 | 30 | |
| | Strength E) (V/m) 614 824/f | Strength E) Field Strength (V/m) (H) (A/m) 614 1.63 824/f 2.19/f | Strength E) Field Strength (H) (A/m) Density (S) (mW/cm2) 614 1.63 (100)* 824/f 2.19/f (180/f)* 27.5 0.073 0.2 F/1500 | |

Note: f=frequency in MHz; *Plane-wave equivalent power density

2. MPE Calculation Method

E (V/m) = (30*P*G) 0.5/d Power Density: Pd (W/m2) = E2/377

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

Pd = (30*P*G) / (377*d2)

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained



3. Calculated Result and Limit

| | | | | | | nna gain | | Limited | | |
|--------|----------------|-------------------------------------|----------|--------------------|-------|----------|---------|---------|----------------|--|
| Mode | Frequency outp | Peak Peak output output power power | Dools | Target power (dBm) | (dBi) | (Linear) | Power | of | Test Result | |
| | | | output | | | | Density | Power | | |
| | | | | | | | (S) | Density | | |
| | | | (mW) | | | | (mW | (S) | | |
| | | (dDIII) | (III VV) | | | | /cm2) | (mW | | |
| | | | | | | | | /cm2) | | |
| GFSK | 2402 | 2.715 | 1.869 | 2 ± 2 | -0.55 | 0.881 | 0.00044 | 1 | Compiles | |
| | 2440 | 3.647 | 2.316 | 3±2 | -0.55 | 0.881 | 0.00044 | 1 | Compiles | |
| | 2480 | 3.859 | 2.432 | 3±2 | -0.55 | 0.881 | 0.00055 | 1 | Compiles | |
| 8-DPSK | 2402 | 4.398 | 2.753 | 4 ± 2 | -0.55 | 0.881 | 0.00070 | 1 | Compiles | |
| | 2441 | 5.057 | 3.204 | 5±2 | -0.55 | 0.881 | 0.00088 | 1 | Compiles | |
| | 2480 | 5.180 | 3.296 | 5±2 | -0.55 | 0.881 | 0.00088 | 1 | Compiles | |
| BLE | 2402 | 2.070 | 1.611 | 2±2 | -0.55 | 0.881 | 0.00044 | 1 | Compiles | |
| | 2441 | 2.690 | 1.858 | 2±2 | -0.55 | 0.881 | 0.00044 | 1 | Compiles | |
| | 2480 | 1.950 | 1.567 | 1 ± 2 | -0.55 | 0.881 | 0.00035 | 1 | Compiles | |

