1. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Client Information

Applicant: ACOUSTMAX INTERNATIONAL CO., LTD

Address of applicant: Unit D16/F Cheuk Nang Plaza 250 Hennessy Road

WanchaiHongKong, HongKong, China

Manufacturer: Monster,Inc.

Address of manufacturer: Nevada City, California

| MONSTER DRIFT |
|--|
| Monster |
| MNDRIFT |
| MNDRIFT2,MNDRIFT3,MNDRIFTX,MNDRIFT-XXX, |
| MNDRIFT-X |
| (X is a variable,represent different color,market) |
| Battery:DC3.7V |
| 4400mAh |
| / |
| |

Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model MNDRIFT, but the circuit and the electronic construction do not change, declared by the manufacturer.

| Technical Characteristics of EUT | | | | |
|----------------------------------|-------------------------|--|--|--|
| Bluetooth Version: | V4.2 (BDR/EDR mode) | | | |
| Frequency Range: | 2402-2480MHz | | | |
| RF Output Power: | 4.70dBm (Conducted) | | | |
| Data Rate: | 1Mbps, 2Mbps, 3Mbps | | | |
| Modulation: | GFSK, Pi/4 QDPSK, 8DPSK | | | |
| Quantity of Channels: | 79 | | | |
| Channel Separation: | 1MHz | | | |
| Type of Antenna: | PCB | | | |
| Antenna Gain: | -0.58dBi | | | |

1.2 Standard Applicable

According to § 1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

(a) Limits for Occupational / Controlled Exposure

| Frequency range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Times $ E ^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 |
| 1500-100000 | / | / | 5 | 6 |

(b) Limits for General Population / Uncontrolled Exposure

| Frequency range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Times $ E ^2$, $ H ^2$ or S (minutes) |
|-----------------------|---|---|---|--|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | F/1500 | 30 |
| 1500-100000 | / | / | 1 | 30 |

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

1.3 MPE Calculation Method

 $S = (30*P*G) / (377*R^2)$

S = power density (in appropriate units, e.g., mw/cm²)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

1.4 MPE Calculation Result

Bluetooth

Maximum Tune-Up output power: 4.70 (dBm)

Maximum peak output power at antenna input terminal: 2.95(mW)

Prediction distance: >20(cm)

Prediction frequency: 2480 (MHz)

Antenna gain: <u>-0.58 (dBi)</u>

Directional gain (numeric gain): 0.87

The worst case is power density at prediction frequency at 20cm: <u>0.0005(mw/cm²)</u> MPE limit for general population exposure at prediction frequency: <u>1 (mw/cm²)</u>

Result: Pass