

RF Exposure Evaluation declaration

Product Name: Bluetooth

Model No. : MS-6837D

FCC ID I4L-MS6837D

Applicant: MICRO-STAR INT'L Co., LTD.

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The declaration results relate only to the samples calculated.

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1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range | Electric Field | Magnetic Field | Power Density | Average Time |
|---|----------------|----------------|-----------------------|--------------|
| (MHz) | Strength (V/m) | Strength (A/m) | (mW/cm ²) | (Minutes) |
| (A) Limits for Occupational/ Control Exposures | | | | |
| 300-1500 | | | F/300 | 6 |
| 1500-100,000 | | | 5 | 6 |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | |
| 300-1500 | | | F/1500 | 6 |
| 1500-100,000 | | | 1 | 30 |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

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1.3. Test Result of RF Exposure Evaluation

The maximum RF power of the EUT is 1.114mW (0.47dBm). It is below the limit 60mW/f(GHz) = 24mW at 2.45GHz and therefore no SAR evaluation is needed.

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