Maximum Permissive Exposure

FCC ID: BEJ-WL1BKT22 Product Description: Wireless Audio Module Model No: WL1BKT22

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm²) | Average Time (Minutes) | | | |
|---|----------------------------------|----------------------------------|---------------------------|---------------------------|--|--|--|
| (A) Limits For Occupational / Control Exposures (f = frequency) | | | | | | | |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 | | | |
| 300-1500 | | | f/300 | 6 | | | |
| 1500-100,000 | | | 5.0 | 6 | | | |
| (B) Limits For General Population / Uncontrolled Exposure (f = frequency) | | | | | | | |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 | | | |
| 300-1500 | | | f/1500 | 30 | | | |
| 1500-100,000 | | | 1.0 | 30 | | | |

Table 1 Limits for Maximum Permissible Exposure

2. MPE Calculation

LG Electronics USA declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

| Mode | Max Output Power (dBm) | Tune-up factor | Tune-up max power (dBm) |
|-----------|---------------------------|----------------|-------------------------|
| WLAN 5GHz | 7.65 | 1.18 | 9 |

**The value presented in the MPE is the maximum tune-up power.

Based on safety distance (r) **20cm**, the antenna gain (G) is **3.412 Numerical**, and the highest power output (P) is **7.94mW**, the power density (S) is **0.005390mW/cm**².

RF Exposure Calculations:

S = (P * G) / (4*
$$\pi$$
 * r^2) or r = $\sqrt{(P * G) / (4* \pi * S)}$

Where :

| Based on safety distance (r) = | 20 | cm | | |
|-------------------------------------|-----------------|-------------------------------------|----------|--------------------|
| Highest Power Output (P) = | 9 | dBm = | 7.94 | mW |
| Antenna Gain (G) = | 5.33 | dBi = | 3.412 | Numerical |
| MPE (S) = (P*G) / $(4^*\pi^*r^2)$ = | (7.94*3.412)/(4 | *π*20 ²) = | 0.005390 | mW/cm ² |

Sincerely Yours,

Luph

Mr. Johnny Hsueh Section Manager AUDIX Technology Corporation