RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

| Product Description | Alert system |
|---------------------|--------------|
| Model Name | HU-100 |
| FCC ID | KUTHU100 |

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f}(GHz)] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

According to the follow transmitter output power (P_t) formula : P_t = ($E \times d$) ²/ (30 × g_t) P_t =transmitter output power in watts g_t =numeric gain of the transmitting antenna (unitess) E=electric field strength in V/m d=measurement distance in meters (m)

According to the report CGZ3150210-00171-EF, E_{max}=72.58dBuV/m=0.0043V/m, d=3m,g_t=1 P_t= (E x d) 2 / (30 x g_t) =0.0000054W=0.0054mW

The result for RF exposure evaluation SAR= (0.0054mW /5mm) .[√0.43392(GHz)]= 0.00071<3.0 for 1-g SAR

Note: The transmitter operated at 433.92MHz which is the worst case for RF exposure evaluation.

4. CONCLUSION

The SAR evaluation is not required.