FCC RF EXPOSURE REQUIREMENTS

General Information

FCC ID: G9H2-5831AH 2.4GHz (Handset)

Device Category:
EUT: Handset Unit: Portable per Part 2.1093

Environment: General Population/Uncontrolled Exposure

Operating Configurations and Exposure Conditions:

The EUT handset complies with the MPE requirements by virtue of the fact that it is considered to comply with SAR evaluation without testing. The power is less than 25mW. See EIRP measurement on Exhibit A(3)-7.

HANDSET UNIT

RF Field Strength Calculations:

1. F. S. = 116.2 dBμV/M

2. $$F.S. = antilog \frac{116.2}{20} = antilog\ 5.811 = 0.6456\ V/M$$

3. $$ERP = \frac{(0.6456)^2 X\ 9}{49.2} = 76.2\ mW$$

4. EIRP = 76.2 x 1.64 = 124.97 mW

5. Time Division Source Based Average Power (Normal Operation Mode)

$$= 124.97\ x\ \frac{1.05\ mS\ (ontime\ 1\ +\ 1\ slots)}{10\ mS} = 124.97\ x\ 0.105 = \underline{13.12\ mW}$$

Time Division Source Based Average Power is determined by multiplying the EIRP as show in 4. above by the ratio of the SLOT(s) ON TIME divided by the FRAME period. In the above example, **the slot is 1.05 mS divided by Frame Time 10 mS or 0.105 or 10.5%** **[see Exhibit C(3)-7]**.

Conclusion:

The EUT handset complies with the MPE requirements by virtue of the fact that it is considered to comply with SAR evaluation without testing.

Proposed RF Exposure Safety Information to Include in User's Manual:

"FCC RF Exposure Requirements
For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines when used with the belt clip supplied with this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines."