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NAME OF TEST: R. F. Power Output (Radiated)

SPECIFICATION: 47 CFR 2.1046(a)

TEST EQUIPMENT: As per attached page

### MEASUREMENT PROCEDURE (RADIATED)

1. The EUT was placed on an open-field site and its radiated field strength at a known distance was measured by means of a spectrum analyzer. Equivalent loading was calculated from the equation  $P_t = (E \times R)^2 / 49.2$  watts, where  $R = 3m$ .
2. Measurement accuracy is  $\pm 1.5$  dB.

### MEASUREMENT RESULTS

g0040006: 2000-Apr-05 Wed 13:29:00

STATE: 2:High Power

AMPS MODE:

| FREQUENCY<br>TUNED, MHz | FREQUENCY<br>EMISSION, MHz | METER,<br>dBuV/m | CF,<br>dB | ERP,<br>dBm | ERP,<br>Watts |
|-------------------------|----------------------------|------------------|-----------|-------------|---------------|
| 470.050000              | 470.048000                 | 110.51           | 23.74     | 36.7        | 4.58          |
| 480.050000              | 480.048000                 | 110.15           | 23.75     | 36.3        | 4.26          |
| 489.950000              | 489.948000                 | 108.52           | 23.71     | 34.5        | 2.82          |

Sample Calculation:

$$\begin{aligned}
 E &= \text{Log}_{10}^{-1} \frac{110.51 + 23.74}{20} \\
 &= 5.01 \text{ Volts} \\
 P_t &= \frac{(5.01 \times 3)^2}{49.2} \\
 &= 4.58 \text{ W. ERP} \\
 &= 36.7 \text{ dbm ERP}
 \end{aligned}$$