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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 ± 1.5 dB.

MEASUREMENT RESULTS

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

STATE: 2:High Power

AMPS MODE:

<u>FREQUENCY TUNED, MHz</u>	<u>FREQUENCY EMISSION, MHz</u>	<u>METER, dBuV/m</u>	<u>CF, dB</u>	<u>ERP, dBm</u>	<u>ERP, Watts</u>
470.050000	470.048000	110.51	23.74	36.7	4.59
480.050000	480.048000	110.15	23.75	36.3	4.39
489.950000	489.948000	108.52	23.71	34.5	2.8

Sample Calculation:

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