Applicant: **At Road, Incorporated**
FCC ID: **PDCILM-2500**
Confirmation Number **EA99345**

Test: RF Power Output Radiated
Specification: 47 CFR 2.1046(a)
Guide: EIA / IS-19-B-1988
TIA / EIA / IS-137-A-1996

Radiated Measurement Procedure
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. Using freshly charged batteries, data packets were transmitted numerous times, while the receiving antenna placed 3 meters from the transmit antenna captured the signal power. Equivalent loading was calculated from the equation. Only 3 data frequencies are used for ERP Calculation as represented in this report.

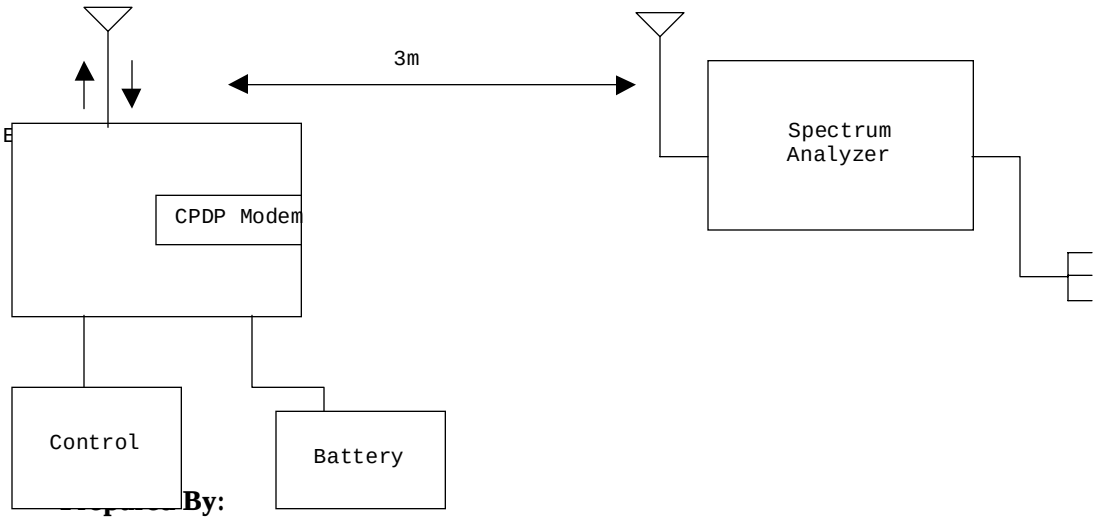
$P_t = ((E \times R)^2 / 49.2)$ watts, where R = 3m.

E = Signal amplitude in v / m
Measurement accuracy is ±1.5dB

Frequency MHz	dBuV/m	Corr. Factor dBuV/m	Corr. Amp. dBuV/m	uV/m @ 3m	V/m @ 3m	ERP Watts
847.040000	72.72	25.66	98.38	82985	0.0829	0.005
845.403000	73.03	26.90	99.93	99197	0.0991	0.006
848.970000	72.15	25.61	97.76	77268	0.0772	0.005

20 Log X = Z uV/m Log X = $\frac{Z \text{ uV/m}}{20}$

X = $10^{(Z \text{ uV/m})/20}$



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RF Safety Exposure per FCC Requirement

The Maximum Permissible Exposure (MPE) distance per ANSI C95.1 table 2 for uncontrolled cellular phone environment is $f(MHz)/1500\ [mW/cm^2]$. The numeric value of the gain for both antennas is 2(3dBi). Therefore the power density is

$850mW \times 2.0/(4\pi r^2) = 848/1500[mW/cm^2]$

$r = [(848MHz/1500mW/cm^2)(4\pi) / 850mW]^{½}$

$r = 4.1cm$

Therefore, the maximum calculated MPE distance r is 4.1cm. The installation instructions shall indicate that at least 6.1cm (4.1 + 2 margin) separation shall be provided between the antennas and the people.

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