

October 17, 2000

Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

FCC ID: OWDTR-0003-A
731 Confirmation Number: EA98449
Correspondence Reference Number: 16527

1/ Output Power – Radiated/ERP Measurements

3.2 Test Data

Settings:

- High Power: 4 Watt delivered to antenna (as specified by manufacturer – Unity Gain)
- 4W Panther 300P radiated power measurements (3 meter)

Frequency (MHz)	Level Measured (dBµV)	Site Factor (dB/m)	ERP Calculated (Watt)	ERP Calculated (dBm)	EIRP Calculated (dBm)	*ERP Substitution Method (dBm)	Antenna
450.025	99.6	34.4	4.6	36.6	38.8	37.3	G
469.975	97.9	36.2	4.7	36.7	38.9	37.5	G
487.975	99.1	35.4	5.2	37.2	39.4	37.6	G

*Measurement accuracy is +/- 1.5 dB

Frequency (MHz)	Level Measured (dBµV)	Site Factor (dB/m)	ERP Calculated (Watt)	ERP Calculated (dBm)	EIRP Calculated (dBm)	*ERP Substitution Method (dBm)	Antenna
450.025	99.9	34.4	4.9	36.9	39.1	37.5	H
469.975	97.5	36.2	4.3	36.3	38.5	35.7	H
487.975	98.7	35.4	4.7	36.7	38.9	37.2	I
469.975	96.7	36.2	3.6	35.5	37.7	34.9	I

* Measurement accuracy is +/- 1.5 dB

3.3 Test Equipment

Spectrum Analyser HP8566B
Antenna Roberts ½ wave dipoles

2/ Output Power - Conducted

The output power is 4.2 Watts. Filing is requested for 4.2 watts and 1 Watt for 4 Watts and 1 Watt rated output power per TIA/EIA-603 standard.

Part 90.205(n) states that the output power shall not exceed by more than 20% the manufacturer's rated output power for the particular transmitter specifically listed on the authorization. In this case, the maximum value is 4.8 Watts.

The manufacturer has listed the rated output power at 4 Watts per TIA/EIA-603 standard. The output power was set at 4.2 Watts (5% above 4 Watts) to maintain a minimum 4 Watts rated output power, taking into account the defined duty cycle per TIA/EIA-603. The maximum output power listed in the test report is 4.2 Watts. This measurement was performed with a power meter having a +/- 3 to 5% measurement accuracy.