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Name of test:

Environmental Assessment

EUT Description:

See Page 2.

Power, Conducted [W]

= 40 (20 W for 50% Duty Factor)

Test Frequency, MHz

= 450

Ant. Model

Monopole, $\frac{1}{4}$ Wave

Ant. Gain[dB]

= 0 dbD

Rated Probe:

Narda 8761D Probe = $10 \mu\text{W}/\text{cm}^2$ to $20 \text{ mW}/\text{cm}^2$

47 CFR 1.1210

0.3-1.234 MHz: Limit $[\text{mW}/\text{cm}^2] = 100$

Table 1, (B)

1.34-300 MHz: Limit $[\text{mW}/\text{cm}^2] = (180/f^2)$ 30-300 MHz: Limit $[\text{mW}/\text{cm}^2] = 0.2$ 300-1500 MHz: Limit $[\text{mW}/\text{cm}^2] = f/1500$ 1500-100,000 MHz: Limit $[\text{mW}/\text{cm}^2] = 1.0$

Power[W EIRP]

 $(P[\text{Watts, Conducted}] + G) = 20$ (50% D.F.)Limit $[\text{mW}/\text{cm}^2]$

= 0.32

Limit $[\text{W}/\text{m}^2]$

= 3.2

Theoretical safe
distance: $R[\text{m}] = [(P[\text{W EIRP}]) / (4\pi \times \text{Limit}[\text{W}/\text{m}^2])]^{1/2}$ $R[\text{m}] = 0.9$ (50% Duty Factor) $R[\text{inches}] = 36$

See Attached Applicant Statement to be placed in manual.

SUPERVISED BY:



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