

Test Report S/N: 45462009-R1.0

EXHIBIT 7 - FCC RF EXPOSURE (MPE) REPORT

Prediction of MPE Limit 47 CFR § 2.1091

$$S_{20} = \frac{P_A G_N}{4\pi R_{20}^2} \qquad S_C = \frac{P_A G_N}{4\pi R_C^2} \qquad R_C = \sqrt{\frac{P_A G_N}{4\pi S_L}}$$
$$S_L = \frac{180}{f^2} (mW/cm^2)$$

- **S₂₀ =** Power Density of the Device at 20cm
- **S_L =** Power Density Limit
- S_c = Power Density of the Device at the Compliance Distance R_c
- **R₂₀ =** 20cm
- **R**_c = Minimum Distance to the Radiating Element to Meet Compliance
- P_T = Power Input to Antenna
- **P**_A = Adjust Power
- **G_N =** Numeric Gain of the Antenna
 - **f** = Transmit Frequency

Transmit Duty Cycle = 75%

Use Group = General Popuation

| Transmit Duty Cycle: | 75.00 | (%) |
|---|---------|-----------------------|
| Tx Frequency (f): | 27.405 | (MHz) |
| RF Power at Antenna Input Port (P_T): | 4000.00 | (mW) |
| Antenna Gain: | 3.00 | (dBi) |
| Numeric Antenna Gain (G _N): | 2.00 | (numeric) |
| Cable or Other Loss: | 0.00 | (dB) |
| Duty Cycle/Loss Adjusted Power (P _A): | 3000.00 | (mW) |
| - | | _ |
| S _L = | 0.240 | (mW/cm ²) |
| S ₂₀ at 20cm = | 1.191 | (mW/cm ²) |
| R _c = | 44.6 | (cm) |
| s _c = | 0.24 | (mW/cm ²) |

User's Manual must indicate a minimum separation distance of:

45cm