

EXHIBIT 4 – RF EXPOSURE (MPE) REPORT

**Prediction of MPE Limit
 47 CFR § 2.1091/ § 2.1093**

$$S_{20} = \frac{P_A G_N}{4\pi R_{20}^2} \quad S_C = \frac{P_A G_N}{4\pi R_C^2} \quad R_C = \sqrt{\frac{P_A G_N}{4\pi S_L}}$$

$$S_L = \frac{180}{f^2} \text{ (mW/cm}^2\text{)}$$

S_{20} = 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
 R_{20} = 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 = 100%

Use Group = General Population

Transmit Duty Cycle:	100.00	(%)
Tx Frequency (f):	219.00	(MHz)
RF Power at Antenna Input Port (P_T):	5000.00	(mW)
Antenna Gain:	15.00	(dBi)
Numeric Antenna Gain (G_N):	31.62	(numeric)
Cable or Other Loss:	0.00	(dB)
Duty Cycle/Loss Adjusted Power (P_A):	5000.00	(mW)

S_L =	0.200	(mW/cm ²)
S_{20} at 20cm =	31.456	(mW/cm ²)
R_C =	250.8	(cm)
S_C =	0.20	(mW/cm ²)

User's Manual must indicate a minimum separation distance of: **251cm**

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**** NOTE: See Section 7.0 regarding antenna gain ****