

EXHIBIT 7 – FCC RF EXPOSURE (MPE) REPORT

Prediction of MPE Limit 47 CFR § 2.1091

$$S_{20} = \frac{P_A G_N}{4\pi R_{20}^2}$$

$$S_C = \frac{P_A G_N}{4\pi R_C^2}$$

$$R_C = \sqrt{\frac{P_A G_N}{4\pi S_L}}$$

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

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 = 75%

Use Group = General Population

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