

**EXHIBIT 7 –FCC RF EXPOSURE (MPE) REPORT**

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

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

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

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

$$S_L = \frac{f}{300} \text{ (mW/cm}^2\text{)}$$

$S_{20}$  = 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 = Occupational**

Transmit Duty Cycle:	100.00	(%)
Tx Frequency (f):	924.00	(MHz)
RF Power at Antenna Input Port ( $P_T$ ):	252.00	(mW)
Antenna Gain:	1.20	(dBi)
Numeric Antenna Gain ( $G_N$ ):	1.32	(numeric)
Cable or Other Loss:	0.00	(dB)
Duty Cycle/Loss Adjusted Power ( $P_A$ ):	252.00	(mW)

$S_L$ =	3.049	(mW/cm <sup>2</sup> )
$S_{20}$ at 20cm =	0.066	(mW/cm <sup>2</sup> )
$R_C$ =	2.9	(cm)
$S_C$ =	3.05	(mW/cm <sup>2</sup> )

<b>FCC ID:</b>	<b>2AK4V-DT-501</b>	<b>RESULT:</b>	<b>PASS</b>
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