H.B. Compliance Solutions

Maximum Permissible Exposure Statement

For the

Raveon Technologies Corporation

Radio Modem RV-M6S-UC

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Prepared for:

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Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$S = PG/4\pi R^2$

Where,

S = power density (mW/cm2)
P = output power at the antenna terminal (mW)
G = gain of transmit antenna (numeric)
R = distance from transmitting antenna (cm)

Maximum peak output power at antenna input terminal = <u>33.72 (dBm)</u>
Maximum peak output power at antenna input terminal = <u>2355.04 (mW)</u>
Antenna gain (typical) = <u>0 (dBi)</u>
Maximum antenna gain = <u>1.0 (numeric)</u>
Prediction distance = <u>30 (cm)</u>
Prediction frequency = <u>450 (MHz)</u>
MPE limit for uncontrolled exposure at prediction frequency = <u>0.300 (mW/cm^2)</u>
Power density at prediction frequency = <u>0.2082 (mW/cm^2)</u>

To solve for the minimum mounting distance required;

$R = \sqrt{(PG/4\pi S)}$

R = √ (2355 x 1.0 / 4π x 0.2082) = <u>30 cm</u> (Based on continuous transmission)

END OF TEST REPORT