H.B. Compliance Solutions

Maximum Permissible Exposure Statement

For the

Raveon Technologies Corporation

UHF Data Modem RV-M6S-VM

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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/4πR²

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 = 32.87 (dBm)
Maximum peak output power at antenna input terminal = 1936 (mW)
Antenna gain (typical) = 0 (dBi)
Maximum antenna gain = 1.0 (numeric)
Prediction distance = 20 (cm)
Prediction frequency = 151.8 (MHz)
MPE limit for uncontrolled exposure at prediction frequency = 0.200 (mW/cm^2)
Power density at prediction frequency = 0.0962 (mW/cm^2)

To solve for the minimum mounting distance required;

R = √ (PG/4πS)

R = √ (1936 x 1.0 / 4π x 0.0962) = 20 cm (Based on continuous transmission)

END OF TEST REPORT