H.B. Compliance Solutions

Maximum Permissible Exposure Statement

For the

Raveon Technologies.

Daisy ISM-NA Wireless Modem RV-M50-EC

January 21, 2016

Prepared for:

Raveon Technologies Corp.

2320 Costeau Court

Vista, CA 92081

Prepared By:

H.B. Compliance Solutions

5005 S. Ash Avenue, Suite # A-10

Tempe, Arizona 85282

Reviewed By:

Hoosamuddin Bandukwala

Cert # ATL-0062-E

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 = 24.88 (dBm)
Maximum peak output power at antenna input terminal = 307.0 (mW)
Antenna gain (typical) = 6.0(dBi)
Maximum antenna gain = 3.98(numeric)
Prediction distance = 20 (cm)
Prediction frequency = 927.7 (MHz)
MPE limit for uncontrolled exposure at prediction frequency = 0.618 (mW/cm^2)
Power density at prediction frequency = 0.243088 (mW/cm^2)

To solve for the minimum mounting distance required;

R = √ (PG/4πS)

R = √ (307 x 3.98 / 4π x 0.243088) = 20 cm (Based on continuous transmission)

END OF TEST REPORT