

MPE CALCULATION

For Raveon Technologies Corporation– Radio data Modem, Model: RV-M7-VB

FCC ID: SRSM7-VB

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	150 ~174MHz
Limits for General Population/Uncontrolled Exposure in the band of:	30MHz – 300MHz
Power Density Limit:	0.2 mW/ cm ² ;

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

Power = 33.00dBm, Typical Antenna Gain = 6dBi, MPE limit=0.2mW/cm²

By using equation $R = \sqrt{PG / 4\pi S}$

R= 57cm

Result

The Above Result had shown that the minimum separation distance in order to meet MPE requirement is 60cm.

Completed By : Choon Sian Ooi

Date : March 19, 2010