MPE Calculation Shooting Star V3 modem 1 : (2.4GHz)

Frequency range	2402.5-2477.5MHz
Max Target power:	20dBm
Measured Conducted power:	19.6dBm
Maximum antenna gain(PK) :	2dBi
Maximum EIRP :	22dBm (158.49mW)

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

The MPE calculation for this exposure is shown below

S = EIRP / (4 R^2 π) = 158.49mW/(4x20^{2}x π) =0.031531 mW/cm^2	**-Note** **S=Maximum power density (mW/cm^2)** **EIRP=Equivalent Isotropic Radiated Power (mW)** **R= Distance to the center of the radiotation of the antenna (20cm)**

MPE Calculation Shooting Star V3 modem 2 : (2.4GHz)

Frequency range	2402.5-2477.5MHz
Max Target power:	20dBm
Measured Conducted power:	19.2dBm
Maximum antenna gain(PK) :	2dBi
Maximum EIRP :	22dBm (158.49mW)

S = EIRP / (4 R^2 π) = 158.49mW/(4x20^{2}x π) =0.031531 mW/cm^2	**-Note** **S=Maximum power density (mW/cm^2)** **EIRP=Equivalent Isotropic Radiated Power (mW)** **R= Distance to the center of the radiotation of the antenna (20cm)**

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

The MPE calculation for this exposure is shown below

RF function	SSV3 modem 1	SSV3 modem 2		
BAND	**2.4GHz**	**2.4GHz**		∑ of MPE ratios
Power Density (mW/cm2)	0.031531	0.031531		
Requirement (mW/cm2)	1.000	1.000		
MPE ratio (Power Density/Requirement)	0.032	0.032		
Configuration 1 (MPE ratio)	0.032	0.032		0,064

Requirement = ∑ of MPE ratios ≤ 1

Conclusion : **The exposure condition of this device is compliant with FCC rules.**