MPE Calculations : (RFID)

- Frequency range : 917.1 MHz ~ 926.9 MHz
- Measured RF output power : 24.717 dBm
- Target Power & Tolerance : 24.00 dBm ± 1 dB (Max. 25 dBm & Min. 23 dBm)
- Maximum antenna peak gain : -18.00 dBi
- **Maximum output power for the calculatior 25.00 dBm**

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.

▪ **EIRP** = P + G = 25.00 dBm + -18.00 dBi = **7.00 dBm** = **5.012 mW**	- **Note** P = Power input to the antenna(dBm) G = Power gain of the antenna(dBi)

- **Power density at the specific separation**

▪ **S** = EIRP / (4 R^2 π) = **5.012** / (4 X 20^2 X π) = **0.000998** mW/cm^2	- **Note** S = Maximum power dencity(mW/cm^2) EIRP = Equivalent Isotropic Radiated Power(mW) R = Distance to the center of the radiation of the antenna(20cm)

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

The maximum permissible exposure(MPE) of the general population/Uncontrolled for this device is 1.0 mW/cm^2.

MPE Calculations : (RFID)

- Frequency range : 917.1 MHz ~ 926.9 MHz
- Measured RF output power : 24.717 dBm
- Target Power & Tolerance : 24.00 dBm ± 1 dB (Max. 25 dBm & Min. 23 dBm)
- Maximum antenna peak gain : -23.00 dBi

- **Maximum output power for the calculatior 25.00 dBm**

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.

▪ **EIRP** = P + G = 25.00 dBm + -23.00 dBi = **2.00 dBm** = **1.585 mW**	- **Note** P = Power input to the antenna(dBm) G = Power gain of the antenna(dBi)

- **Power density at the specific separation**

▪ **S** = EIRP / (4 R^2 π) = **1.585** / (4 X 20^2 X π) = **0.000316** mW/cm^2	- **Note** S = Maximum power dencity(mW/cm^2) EIRP = Equivalent Isotropic Radiated Power(mW) R = Distance to the center of the radiation of the antenna(20cm)

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

The maximum permissible exposure(MPE) of the general population/Uncontrolled for this device is 1.0 mW/cm^2.

MPE Calculations : (RFID)

- Frequency range : 917.1 MHz ~ 926.9 MHz
- Measured RF output power : 24.717 dBm
- Target Power & Tolerance : 24.00 dBm ± 1 dB (Max. 25 dBm & Min. 23 dBm)
- Maximum antenna peak gain : -18.00 dBi

- **Maximum output power for the calculatior 25.00 dBm**

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.

▪ **EIRP** = P + G = 25.00 dBm + -18.00 dBi = **7.00 dBm** = **5.012 mW**	- **Note** P = Power input to the antenna(dBm) G = Power gain of the antenna(dBi)

- **Power density at the specific separation**

▪ **S** = EIRP / (4 R^2 π) = **5.012** / (4 X 20^2 X π) = **0.000998** mW/cm^2	- **Note** S = Maximum power dencity(mW/cm^2) EIRP = Equivalent Isotropic Radiated Power(mW) R = Distance to the center of the radiation of the antenna(20cm)

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

The maximum permissible exposure(MPE) of the general population/Uncontrolled for this device is 1.0 mW/cm^2.

MPE Calculations : (RFID)

- Frequency range : 917.1 MHz ~ 926.9 MHz
- Measured RF output power : 24.717 dBm
- Target Power & Tolerance : 24.00 dBm ± 1 dB (Max. 25 dBm & Min. 23 dBm)
- Maximum antenna peak gain : -22.00 dBi
- **Maximum output power for the calculatior 25.00 dBm**

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.

▪ **EIRP** = P + G = 25.00 dBm + -22.00 dBi = **3.00 dBm** = **1.996 mW**	- **Note** P = Power input to the antenna(dBm) G = Power gain of the antenna(dBi)

- **Power density at the specific separation**

▪ **S** = EIRP / (4 R^2 π) = **1.996** / (4 X 20^2 X π) = **0.000398** mW/cm^2	- **Note** S = Maximum power dencity(mW/cm^2) EIRP = Equivalent Isotropic Radiated Power(mW) R = Distance to the center of the radiation of the antenna(20cm)

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

The maximum permissible exposure(MPE) of the general population/Uncontrolled for this device is 1.0 mW/cm^2.

MPE Calculations : (RFID)

- Frequency range : 917.1 MHz ~ 926.9 MHz
- Measured RF output power : 24.717 dBm
- Target Power & Tolerance : 24.00 dBm ± 1 dB (Max. 25 dBm & Min. 23 dBm)
- Maximum antenna peak gain : -19.00 dBi

- **Maximum output power for the calculatior 25.00 dBm**

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.

▪ **EIRP** = P + G = 25.00 dBm + -19.00 dBi = **6.00 dBm** = **3.982 mW**	- **Note** P = Power input to the antenna(dBm) G = Power gain of the antenna(dBi)

- **Power density at the specific separation**

▪ **S** = EIRP / (4 R^2 π) = **3.982** / (4 X 20^2 X π) = **0.000793** mW/cm^2	- **Note** S = Maximum power dencity(mW/cm^2) EIRP = Equivalent Isotropic Radiated Power(mW) R = Distance to the center of the radiation of the antenna(20cm)

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

The maximum permissible exposure(MPE) of the general population/Uncontrolled for this device is 1.0 mW/cm^2.

MPE Calculations : (RFID)

- Frequency range : 917.1 MHz ~ 926.9 MHz
- Measured RF output power : 24.717 dBm
- Target Power & Tolerance : 24.00 dBm ± 1 dB (Max. 25 dBm & Min. 23 dBm)
- Maximum antenna peak gain : -22.00 dBi
- **Maximum output power for the calculatior 25.00 dBm**

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.

▪ **EIRP** = P + G = 25.00 dBm + -22.00 dBi = **3.00 dBm** = **1.996 mW**	- **Note** P = Power input to the antenna(dBm) G = Power gain of the antenna(dBi)

- **Power density at the specific separation**

▪ **S** = EIRP / (4 R^2 π) = **1.996** / (4 X 20^2 X π) = **0.000398** mW/cm^2	- **Note** S = Maximum power dencity(mW/cm^2) EIRP = Equivalent Isotropic Radiated Power(mW) R = Distance to the center of the radiation of the antenna(20cm)

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

The maximum permissible exposure(MPE) of the general population/Uncontrolled for this device is 1.0 mW/cm^2.