

Maximum Permissible Exposure(MPE) evaluation

January 23, 2026

- Band = Lower 700 MHz
- Transmitting frequency = 729 MHz ~ 746 MHz
- Min. test separation distance = 200 mm
- Max. Antenna Gain = 2.5 dBi Internal Antenna Type
- Max. power with turn-up tolerance = 19.00 dBm = 79.5 mW

$$S = P G / (4 R^2 \pi) , \text{ mW/cm}^2$$

$$= 0.028125 \text{ mW/cm}^2$$

S = Maximum power density

P = Maximum power with turn-up tolerance

G = Numeric power gain of the antenna

R = Distance from transmitting antenna

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

The limit for maximum permissible exposure = 0.486000 mW/cm² (f/1500)

Maximum Permissible Exposure(MPE) evaluation

January 23, 2026

- Band = Upper 700 MHz
- Transmitting frequency = 746 MHz ~ 758 MHz
- Min. test separation distance = 200 mm
- Max. Antenna Gain = 2.5 dBi Internal Antenna Type
- Max. power with turn-up tolerance = 19.00 dBm = 79.5 mW

$$S = \frac{P G}{4 R^2 \pi} , \text{ mW/cm}^2$$

S = Maximum power density
 P = Maximum power with turn-up tolerance
 G = Numeric power gain of the antenna
 R = Distance from transmitting antenna

$$= 0.028125 \text{ mW/cm}^2$$

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

The limit for maximum permissible exposure = 0.497333 mW/cm² (f/1500)

Maximum Permissible Exposure(MPE) evaluation

January 23, 2026

- Band = FirstNet
- Transmitting frequency = 758 MHz ~ 768 MHz
- Min. test separation distance = 200 mm
- Max. Antenna Gain = 2.5 dBi Internal Antenna Type
- Max. power with turn-up tolerance = 19.00 dBm = 79.5 mW

$$S = \frac{P G}{4 R^2 \pi} , \text{ mW/cm}^2$$

S = Maximum power density
 P = Maximum power with turn-up tolerance
 G = Numeric power gain of the antenna
 R = Distance from transmitting antenna

$$= 0.028125 \text{ mW/cm}^2$$

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

The limit for maximum permissible exposure = 0.505333 mW/cm² (f/1500)

Maximum Permissible Exposure(MPE) evaluation

January 23, 2026

- Band = Lower 700 MHz
- Transmitting frequency = 729 MHz ~ 746 MHz
- Min. test separation distance = 450 mm
- Max. Antenna Gain = 17 dBi External Antenna Type
- Max. power with turn-up tolerance = 19.00 dBm = 79.5 mW

$$S = \frac{P G}{4 R^2 \pi} , \text{ mW/cm}^2$$

S = Maximum power density
 P = Maximum power with turn-up tolerance
 G = Numeric power gain of the antenna
 R = Distance from transmitting antenna

$$= 0.156579 \text{ mW/cm}^2$$

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

The limit for maximum permissible exposure = 0.486000 mW/cm² (f/1500)

Maximum Permissible Exposure(MPE) evaluation

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