



Excellence in Compliance Testing

---

## **Certification Exhibit**

**FCC ID: SK9ITR900-1  
IC: 864G-ITR9001**

**FCC Rule Part: 15.247  
IC Radio Standards Specification: RSS-210**

**ACS Report Number: 10-0009-15C**

**Manufacturer: Itron Electricity Metering, Inc.  
Model: ITR900**

## **RF Exposure**

**General Information:**

Applicant: Itron Electricity Metering, Inc.  
 ACS Project: 10-0009  
 Device Category: Mobile  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: Omni-Directional 900 MHz Mobile Antenna  
 Antenna Gain: 5.1dBi  
 Maximum Transmitter Conducted Power: 26.15dBm, 412.1mW  
 Maximum System EIRP: 31.25dBm, 1.333W  
 Exposure Conditions: Greater than 20 centimeters

**MPE Calculation**

The Power Density ( $\text{mW}/\text{cm}^2$ ) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g.  $\text{mW}/\text{cm}^2$ )

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit ( $\text{mW}/\text{cm}^2$ )	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain ( $\text{mW eq.}$ )	Distance (cm)	Power Density ( $\text{mW}/\text{cm}^2$ )
902.25	26.15	0.60	412.10	5.1	3.236	20	0.265

**Installation Guidelines**

The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

**RF Exposure**

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

**Conclusion**

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.