

Certification Exhibit

FCC ID: SK9C3A-2H

FCC Rule Part: 47 CFR Part 2.1091

ACS Project Number: 16-0057

Manufacturer: Itron Electricity Metering, Inc.
Model: C3A2H

RF Exposure

General Information:

Applicant: Itron Electricity Metering, Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Slot Antenna
 Antenna Gain: 3.5 dBi
 Maximum Transmitter Conducted Power: 21.03 dBm, 126.77 mW
 Maximum System EIRP: 24.53 dBm, 283.79 mW
 Exposure Conditions: 20 centimeters or greater

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

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

Where:

S = power density (in appropriate units, e.g. mW/cm²)

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)

Table 1: MPE Calculation

Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
909.6	21.03	0.61	126.77	3.5	2.239	20	0.056