



America

Certification Exhibit

FCC ID: 2AJX7KP9000

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 16-0273

Manufacturer: QSR Automations, Inc.
Model: KP-9000

RF Exposure

General Information:

Applicant: QSR Automations, Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Printed Meandering Trace Antenna
 Antenna Gain: -7 dBi
 Maximum Transmitter Conducted Power: 3.27 dBm, 2.12 mW
 Maximum System EIRP: -3.73 dBm, 0.42 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) |
|--------------------------|-------------------|------------------------------|------------------|--------------------|-----------------------|---------------|-------------------------|
| 2440 | 3.27 | 1.00 | 2.12 | -7 | 0.200 | 20 | 0.0001 |