

# **Certification Exhibit**

FCC ID: 2AJX7KP9000D

FCC Rule Part: 47 CFR Part 2.1091

**Project Number: 16-0272** 

 $\label{eq:Manufacturer: QSR Automations, Inc.} \\$ 

Model: KP-9000D

**RF Exposure** 

Model: KP-9000D FCC ID: 2AJX7KP9000D

## **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: 2.70 dBm, 1.86 mW

Maximum System EIRP: -4.3 dBm, 0.37 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<br>Frequency<br>(MHz) | Radio<br>Power<br>(dBm) | Power<br>Density<br>Limit<br>(mW/Cm2) | Radio<br>Power<br>(mW) | Antenna<br>Gain<br>(dBi) | Antenna<br>Gain<br>(mW eq.) | Distance<br>(cm) | Power<br>Density<br>(mW/cm^2) |
|--------------------------------|-------------------------|---------------------------------------|------------------------|--------------------------|-----------------------------|------------------|-------------------------------|
| 2440                           | 2.7                     | 1.00                                  | 1.86                   | -7                       | 0.200                       | 20               | 0.0001                        |

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