



RF Exposure Exhibit

FCC Rule Part: 47 CFR Part 2.1093

Project Number: 72143355

Manufacturer: Johnson Outdoors, Inc.
Model: SOLIX 10 MSI G2

Module FCC ID: XF6-M15SB

RF Exposure

General Information:

Manufacturer: Johnson Outdoors, Inc.
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Surface Mount Ceramic Chip

Antenna Gain: 0.99dBi

Maximum Transmitter Conducted Power: Bluetooth LE: 19.58 dBm, 90.78 mW
Bluetooth Classic: 18.92 dBm, 77.98 mW
WLAN: 21.65 dBm, 146.22 mW

Maximum System EIRP: Bluetooth LE: 20.57 dBm, 114.02 mW
Bluetooth Classic: 19.91 dBm, 97.95 mW
WLAN: 22.64 dBm, 183.65 mW

Exposure Conditions: Greater than 20 centimeters

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) |
|--------------------------|-------------------|------------------------------|------------------|--------------------|-----------------------|---------------|-------------------------|
| 2402 | 19.58 | 1.00 | 90.78 | 0.99 | 1.256 | 20 | 0.023 |
| 2402 | 18.92 | 1.00 | 77.98 | 0.99 | 1.256 | 20 | 0.019 |
| 2412 | 21.65 | 1.00 | 146.22 | 0.99 | 1.256 | 20 | 0.037 |

Maximum Peak Conducted Power used as worst-case