# Maximum Permissible Exposure (MPE) Requirement

Applicant: Sure-Fi, Inc.

Job Number / V044336

FCC ID: 2ADZ3D001

This document was prepared in by VPI Laboratories on behalf of the applicant using data collected during testing and information provided by the applicant. Calculations were made and compared to the limits of 47 CFR §1.1310(e) Table 1. The power density is calculated using the following equation.

$$P_d = \frac{P_t\ G^*}{4\pi r^2}$$

$P_d$ = power density in watts
$P_t$ = transmit power in milliwatts
G = numeric antenna gain
r = distance between body and transmitter in centimeters
$*\ \ P_t\ G$ = EIRP

The calculated power density of the EUT listed in this application is calculated below.

| | | | |
|---|---|---|---|
| Max Transmit Power ERP, including tune up tolerance (mW): | 922.6 | Max Antenna Gain (dBi): | 2.6 |
| Operating Frequency (MHz): | 902.5 | (Numeric Antenna Gain): | 1.84 |
| Min Operating Distance (cm): | 20 | Duty Cycle (%): | 100 |
| Power Density (mW/cm$^2$): | | 0.3371 | |
| Limit (mW/cm$^2$): | | 0.6017 | |
| Delta: | | -0.2646 | |

**Result**

The calculations above indicate the RF exposure generating from this 902 – 928 MHz ISM band transmitter can be excluded from SAR measurement and is deemed compliant with RF exposure.

Note that the BLE module included in this device cannot transmit at the same time as this 902 – 928 MHz transmitter (See Operational Description exhibit).