# Certification Exhibit

**FCC ID:  U4A-MODBLE9052**
**IC: 6982A-MODBLE9052**

**FCC Rule Part: 15.247**
**IC Radio Standards Specification: RSS-247**

**ACS Project Number:  15-0143**

Manufacturer: Assa Abloy Inc.
Model: BLE9052

# RF Exposure

**General Information:**
Applicant:              Assa Abloy Inc.
Device Category:        Mobile
Environment:            General Population/Uncontrolled Exposure

**Technical Information:**
Antenna Type:  Dipole Antenna
Antenna Gain:   1.05 dBi
Maximum Transmitter Conducted Power: 0.35 dBm, 1.08 mW
Maximum System EIRP: 1.4 dBm, 1.38 mW
Exposure Conditions:  Greater than 20 centimeters

Per IC RSS-102 Issue section 2.5.2, this device is exempt from routine RF exposure evaluation.  The source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where $f$ is 2405 MHz;

$1.31 \times 10^{-2} 2475^{0.6834}$ W = 2.7 W EIRP

**MPE Calculation**
The Power Density (mW/cm$^2$) 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)

| MPE Calculator for Mobile Equipment<br>Limits for General Population/Uncontrolled Exposure* | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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) |
| 2480 | 0.35 | 1.00 | 1.08 | 1.05 | 1.274 | 20 | 0.0003 |