Excellence in Compliance Testing

Certification Exhibit

FCC ID: VRA-SG9011079
IC: 7420A-SG9011079

FCC Rule Part: CFR Part 90 Subpart I, Part 90 Subpart M
IC Radio Standards Specification: RSS-137

ACS Report Number: 10-2041.W06.11A

Manufacturer: Sagrad, Inc.
Model: SG901-1075

RF Exposure

General Information:

Applicant: Sagrad, Inc.
ACS Project: 10-2041
Device Category: Fixed
Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Patch
Antenna Gain: 7 dBi
Maximum Transmitter Conducted Power: 30.42 dBm
Maximum System EIRP: 37.42 dBm, 5.52 W

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 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)**
902.25	30.42	0.60	1101.54	7	5.012	28	0.560
903.75	30.41	0.60	1099.01	7	5.012	28	0.559
910	30.34	0.61	1081.43	7	5.012	28	0.592
915	30.28	0.61	1066.60	7	5.012	28	0.584
921.5	30.18	0.61	1042.32	7	5.012	28	0.570

Installation Guidelines

The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

RF Exposure

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 28 centimeters will be maintained.

Conclusion

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.