

Certification Exhibit

FCC ID: ZBGAWR2UHF

FCC Rule Part: FCC 47 CFR 15 Subpart H

ACS Project Number: 12-2110

Manufacturer: KTS WIRELESS
Model: AWR-US-U-100

RF Exposure

General Information:

Applicant: KTS Wireless
 ACS Project: 11-2110
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: ALP-450 UHF Log Periodic Antenna
 Antenna Gain: 4.6 dBd
 Maximum Transmitter Conducted Power: 21.08 dBm
 Maximum System EIRP: 27.83 dBm, 606.74 mW
 Exposure Conditions: Greater than 20 centimeters

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/cm^2)

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/cm^2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
473	20.8	0.32	120.23	6.75	4.732	20	0.113
587	21.08	0.39	128.23	6.75	4.732	20	0.121
695	20.99	0.46	125.60	6.75	4.732	20	0.118

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 20 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.