Excellence in Compliance Testing

Certification Exhibit

FCC ID: 2AB8BARX900
IC: 11944A-ARX900

FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-210

ACS Project Number: 15-0031

Manufacturer: AirNetix, LLC
Model: ARX-900

RF Exposure

General Information:
Applicant: AirNetix, LLC
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information:
Antenna Type: Dipole
Antenna Gain: 2dBi
Maximum Transmitter Conducted Power: 20.58 dBm, 114.29 mW
Maximum System EIRP: 22.58 dBm, 181.13 mW
Exposure Conditions: Greater than 20 centimeters

Technical Information:
Antenna Type: Yagi
Antenna Gain: 14dBi
Maximum Transmitter Conducted Power: 20.58 dBm, 114.29 mW
Maximum System EIRP: 34.58 dBm, 2870.78 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/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)
906	20.58	0.60	114.29	2	1.585	20	0.036
906	20.58	0.60	114.29	14	25.119	20	0.571

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.