Narrowband PCS Transmitter

Certification Test Report

Model: AMDS-1000TR
FCC ID: SDBAMDS1000TR

ACS Report Number: 04-0166-24D

RF Exposure

General Information:

Applicant: AMDS LLC
ACS Project: 04-0166
FCC ID: SDBAMDS1000TR
Device Category: Mobile
Environment: Uncontrolled/General Poplation

Technical Information:

Antenna Type: PCB
Antenna Gain: 0dBi
Transmitter Conducted Power: 30.4
Maximum System EIRP: 30.4
Operating Configuration: Fixed Mounted to a Wall
Exposure Conditions: Greater than 20cm

MPE Calculation

The minimum separation distance is calculated as follows:

$E(V/m) = \frac{\sqrt{30xPxG}}{d}$ Power Density: $P_d = (mW/cm^2) = \frac{E^2}{3770}$

MPE Distance

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Freq. (MHz)	**Radio Power (dBm)**	**Power Density Limit (mW/Cm2)**	**Radio Power (W)**	**Antenna Gain (dBi)**	**Antenna Gain (mW eq.)**	**E (V/m)**	**MPE Distance (cm)**
940.1125	30.5	0.63	1.12202	0	1.00	48.73	11.9047
901.1125	30.5	0.60	1.12202	0	1.00	47.56	12.1987
932.23125	30.5	0.62	1.12202	0	1.00	48.35	12.0004
941.23125	30.5	0.63	1.12202	0	1.00	48.73	11.9047

Installation Guidelines
The installation manual contains the following text advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

"RF Exposure (Intentional Radiators Only)
In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of (20cm) is maintained between the radiating element and the user and/or general population."

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