



American Telecommunications Certification Body Inc.
6731 Whittier Ave, McLean, VA 22101

April 20, 2006

RE: Mobile Access Networks

FCC ID: OJFMA1K-IDEN-SMR

After a review of the submitted information, I have a few comments on the above referenced Application.

- 1) Your response to previous comment 11 states a composite 10 dBm input power was verified and supplied to the RIU. It is uncertain if this is considered maximum input drive, given information on page 5 of the data sheet which suggests maximum of 36 dBm supplied to the RIU. However the data sheet mentions 10 dBm supplied to the BU. Please clarify. Note that FCC expects testing performed at maximum levels.
- 2) Response regarding output power for previous comment 10 is still unclear. For instance, power cited for 851-869 for IDEN is 209 mW on 731 vs. 10 dBm (10 mW) on the data sheet. Power cited for 929 – 941 for SMR is 83 mW on the 731 vs. 20 dBm (100 mw) on data sheet. One appears excessively high, the other appears lower. Please review/explain/correct as necessary.
- 3) Combining output power and using a 10 dBi gain antenna would yield an 2.949 W EIRP or 1.798 W ERP. Given the nature of bands under part 90, this appears to require RF evaluation (measurements not calculations) given the exemption only applies to < 1.5 W ERP under 1.5 GHz. Additionally, please note that for mobile devices, the FCC does not accept distance calculations for < 20 cm.
- 4) Antenna information is not cited as proper units. Is this dBi, dBd, etc. note that for 3) above, 10 dBi was assumed.
- 5) Previous response to comment 6 does verify that the output envelope is similar (for SMR operation). However how does this modulation type compare to the expected modulation for SMR. FCC desires output to track input for each expected modulation type. Please explain. Additionally, please comment on the use of modulation used for iDEN occupied bandwidth test relative to the actual iDEN signal.
- 6) FYI...We can accept your response to previous comment 7. However this would suggest that item 5 about should be tested with proper modulation expected. Please review.
- 7) Please correct Section III, 7(b) and 8(b) as appropriate according to FCC guidance:
System operation – When transmitter requires other devices in a system, select Form 731 “Part of system...” checkbox. List FCC IDs of other components. Test with system components if needed. Usually applies for fiber-optic systems. Control of power level is one implication.
- 8) FCC requires applicant to understand their responsibilities under Sections 90.219 for related booster/inbuilding operations. Please confirm applicant understands their responsibilities.
- 9) FYI...Your response regarding previous comment 16 states that RX emission were ofund below specified limits as shown in table 8.1.2 and table 8.2.1. Please note that for these emissions to be considered valid under Part 15 the antenna should be attached. Additionally data > 1 GHz is compared to Class A and not Class B levels as would be required by RX emissions under Part 15. Please note that the report suggests all testing was performed terminated. However, an interpretation from the FCC allows the passband of the RX to be ignored and therefore antenna conducted data is acceptable. Please see attached.

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The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.