Mike Kuo

From: 조성규 [skcho@ktl.re.kr]
Sent: Tuesday, June 06, 2006 7:16 PM
To: Mike Kuo
Subject: [답장] FW: AISA Tech Co., ltd, FCC ID: T5ZN701-AT, Assessment NO.: AN06T5814, Notice#2
Attachments: Modified FCC documents.zip

Dear Mike

Many thanks for your help.
These are my answers.

1. Please provide the following additional exhibits for this application:
a. Schematic Diagrams for the module
I already send Schematic Diagrams. Refer to Schematic Diagrams of page 1~3.

b. Installation Manual for the module, which must contain RF Exposure information about correct installation and separation distances required for compliance and antenna selection guidance
Check User's guide page 2(RF Exposure information) and 5(antenna selection guidance), plz. This module is sold installed in TC100G state. so, there's no installation Manual.

c. RF Exposure Maximum Permissible Exposure (MPE) calculations for this device that is restricted to Mobile/fixed installations (no portable use allowed).
I attached MPE calculations.

d. List of available operating power values
We put available operation power values on Page 17 of Calibration procedure. I attached Cal procedure.

2. The Manual seems to imply that this device (installed in the TC100G) does not need to be installed to operate. If this device (the TC100G) is restricted to operate only when permanently installed in a vehicle, then please indicate so in the manual.
This device could be used another purposes. (Not only for vehicle)

3. The Tune-up procedure states that the Maximum Conducted power for GSM850 is 32.2 dBm and PCS1900 29 dBm. Please provide the conducted RF Measurements of this module and the specifications of the (KayCera?) antenna connected to the EUT Module during the ERP/EIRP measurements. The rated values should be consistent with the measured values.
I attached conducted RF measurements data on the report. And i attached antenna spec. (The antenna spec is written in Korean and English, but i think you can understand major points.

4. Since the N701-AT module (EUT) does not contain an antenna, the Grant of Equipment Authorization will list the Conducted RF Power at the antenna terminals, along with guidance on the maximum antenna gain in each band of operation in order to maintain compliance with power and RF Exposure limits.
Check User's guide page 2(RF Exposure information) and 5(antenna selection guidance)

5. Please indicate the GPRS class capabilities (i.e. GPRS Class 10/Class A) and the modes of operation of the module during the testing (the manual for the TC100G states GPRS Class 8).
I put the GPRS class on page 3 of Test Report (additional info). The power control is same between GSM mode and GPRS(GPRS Class 8/Class B) mode, so all tests were conducted in GSM mode. (The power control Level was mentioned in the test report.)
And, the last page of calibration procedure, mentioned about GPRS power level.

Question #1: In the test report, TIA/EIA 603 rev.A test procedure was referenced and used. For licensed transmitter, FCC only allows to use the most update measurement procedure which is ANSI/TIA/EIA-603-B-2002 or TIA-603-C-2004 . Please address this issue.
Modified

Question #2: Please identify the transmitting antenna on the internal photos.
Modified

Question #3: User manual does not include RF exposure warning statement. Please indicate the separation distance to the body of user is required, max. antenna gain is allowed and non-colocated requirements.
Modified
I will go business trip from 7 JUN, so if it is possible, before going business trip, i want to receive your comment.
Thankyou and Have a nice day...

Best Regards,
sung-kyu Cho

--원본메시지--
송신 : Mike Kuo <mike.kuo@ccsemc.com>
수신 : skcho@ktl.re.kr;
날짜 : 2006.06.03 09:41
제목 : FW: AISA Tech Co., ltd, FCC ID: T5ZN701-AT, Assessment NO.: AN06T5814, Notice#2

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Question #2: Please identify the transmitting antenna on the internal photos.

Question #3: User manual does not include RF exposure warning statement. Please indicate the separation distance to the body of user is required, max. antenna gain is allowed and non-colocated requirements.

Best Regards

Mike Kuo

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. 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 e-mail address listed below the name of the sender.