



Tim Dwyer <rfspectrum@gmail.com>

Advantech Co. Ltd. , FCC ID: M82-TREK-743, Assessment NO.: AN09T9814 AB09T9815 , Notice#1

3 messages

tim.dwyer@ccsemc.com <tim.dwyer@ccsemc.com>

Tue, Nov 24, 2009 at 7:07 PM

To: application.2009@ccsrf.com, gina.lo@ccsrf.com

Cc: tim.dwyer@ccsemc.com, claire.hoque@ccsemc.com, lucy.tsai@ccsemc.com

Hello Gina,

Review of these applications is complete. This is a combined notice for boths applications shown in the subject. Your replies will be applied to both applications. Please reply to the following issues Q1-Q7.

Q1: FCC Equipment code PCT (PCS Licensed Transmitter Worn on Body) was entered in the application form. There is no evidence in the application that this device has been evaluated or is intended for body worn use. Please confirm that the Equipment code should be changed to PCB (PCS Licensed Transmitter).

Q2: Please confirm that this device will be for use in the Mobile RF Exposure category with at least 20 cm separation between antenna and user.

Q3: SAR checklist was specified for the WLAN application, but there is no SAR data. Please confirm that the SAR checklist is not applicable to this application and should be removed.

Q4: There is no warning in the FCC information or in the installation instructions to users to install at least 20 cm from users. Please send a revised user manual or addendum with the RF exposure warning.

Q5: There is no MPE evaluation for the co-located CDMA/EVDO transmitter. The user manual instructs the user to install both antennas on the unit. It appears they will be installed with < 20 cm antenna to antenna so the antennas are co-located by definition. Please submit an MPE exhibit with combined evaluation of co-located WLAN and CDMA/EVDO transmitters.

Q6: The user manual describes installation of GSM/GPRS and Bluetooth modules. These modules have not been evaluated in this application. Please provide additional information or revised manual with these sections removed.

Q7: Block diagram and schematic for WLAN module show two antenna ports. Please confirm that only one antenna port will be used in this application as appears to be indicated in photo documents

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.

Best regards

Tim Dwyer
Technical Reviewer

application.2009 <application.2009@ccsrf.com>

Wed, Nov 25, 2009 at 2:42 AM

To: tim.dwyer@ccsemc.com

Cc: application.2009@ccsrf.com, claire.hoque@ccsemc.com, gina.lo@ccsrf.com, lucy.tsai@ccsemc.com, tim.dwyer@ccsemc.com

Dear Sir,

Please see my reply as below, thank you.

Best Regards,

Gina

<tim.dwyer@ccsemc.com>

2009/11/25 08:07 AM

收件人: <application.2009@ccsrf.com>, <gina.lo@ccsrf.com>
副本抄送: <tim.dwyer@ccsemc.com>, <claire.hoque@ccsemc.com>, <lucy.tsai@ccsemc.com>
主旨: Advantech Co. Ltd., FCC ID: M82-TREK-743, Assessment NO.: AN09T9814 AB09T9815, Notice#1

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Ans: Please kindly help change the Equipment code.

Q2: Please confirm that this device will be for use in the Mobile RF Exposure category with at least 20 cm separation between antenna and user.

Ans: Yes. We confirmed with the client.

Q3: SAR checklist was specified for the WLAN application, but there is no SAR data. Please confirm that the SAR checklist is not applicable to this application and should be removed.

Ans: Please kindly help remove the SAR checklist.

Q4: There is no warning in the FCC information or in the installation instructions to users to install at least 20 cm from users. Please send a revised user manual or addendum with the RF exposure warning.

Ans: Please see the revised user manual(page 7) as the attachment.

Q5: There is no MPE evaluation for the co-located CDMA/EVDO transmitter. The user manual instructs the user to install both antennas on the unit. It appears they will be installed with < 20 cm antenna to antenna so the antennas are co-located by definition. Please submit an MPE exhibit with combined evaluation of co-located WLAN and CDMA/EVDO transmitters.

Ans: This device is use in the Mobile RF Exposure category with at least 20 cm separation between antenna and user.

We add MPE for CDMA EVDO and revised page 4 of the test report.

Q6: The user manual describes installation of GSM/GPRS and Bluetooth modules. These modules have not been evaluated in this application. Please provide additional information or revised manual with these sections removed.


Q6: We delete GSM/GPRS and Bluetooth modules's information. Please see the revised user manual as the attachment.

Q7: Block diagram and schematic for WLAN module show two antenna ports. Please confirm that only one antenna port will be used in this application as appears to be indicated in photo documents

Q7: The WLAN module is 802.11 abg, then has two antenna ports. The client will disable 802.11 a.

[Quoted text hidden]

4 attachments

 **TREK-743 User manual Revised 1125.pdf**
1515K

 **TREK-743 Appendix I for MPE for CDMA EVDO Revised 1117.pdf**
73K

 **TREK-743 Test Report for CDMA EVDO Revised 1117.pdf**
803K

 **TREK-743 Test Setup Photo for CDMA EVDO Revised 1117.pdf**
224K

Tim Dwyer <tim.dwyer@ccsemc.com>

Wed, Nov 25, 2009 at 2:25 PM

To: "application.2009" <application.2009@ccsrf.com>

Cc: claire.hoque@ccsemc.com, gina.lo@ccsrf.com, lucy.tsai@ccsemc.com

Dear Gina,

Thank you for your reply. All items are acceptable except for Q5.

For Q5, combined MPE (WLAN + CDMA) was requested since the antenna to antenna distance is less than 20 cm meaning the antennas are co-located. Operation in the mobile category with 20 cm antenna to user does not remove the co-location evaluation requirement. In this case from the newly submitted MPE for the CDMA transmitter, it can clearly be seen that the sum of the WLAN MPE + CDMA MPE ($0.1329 + 0.0784 = 0.2113$ mW/cm²) is significantly lower than the MPE limit (1.0 mW/cm²). In the future please submit an MPE evaluation including combined MPE for all co-located antennas in the same exhibit. This email will be uploaded with the application exhibits.

Best regards,

Tim Dwyer
Technical Reviewer

2009/11/25 application.2009 <application.2009@ccsrf.com>

Dear Sir,

Please see my reply as below, thank you.

Best Regards,

Gina

<tim.dwyer@ccsemc.com>

2009/11/25 08:07 AM

收件人: <application.2009@ccsrf.com>, <gina.lo@ccsrf.com>
副本抄送: <tim.dwyer@ccsemc.com>, <claire.hoque@ccsemc.com>, <lucy.tsai@ccsemc.com>
主旨: Advantech Co. Ltd. , FCC ID: M82-TREK-743, Assessment NO.: AN09T9814 AB09T9815 , Notice#1

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Ans: Please kindly help remove the SAR checklist.

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Q7: Block diagram and schematic for WLAN module show two antenna ports. Please confirm that only one antenna port will be used in this application as appears to be indicated in photo documents

Q7: The WLAN module is 802.11 abg, then has two antenna ports. The client will disable 802.11 a.

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.

Best regards

Tim Dwyer
Technical Reviewer

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Tim Dwyer
Quasi-Peak Wireless
766 Pucker Street
Coventry, CT 06238 USA
(860) 558-1791
email: tdwyer@quasi-peak.com
timothy_dwyer@ieee.org
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