

Lucy Tsai

From: Gina.Lo@ccsrf.com on behalf of application.2010@ccsrf.com
Sent: Monday, July 05, 2010 3:35 AM
To: Lucy Tsai
Cc: application@ccsrf.com; Lucy Tsai
Subject: 回信: Advantech Co. Ltd. , FCC ID: M82-MARS-3070, Assessment NO.: AN10T0494, Notice#1

Dear Lucy:

Please find the updated files (Revised 0705) and see the below reply, thank you so much. Since the size of the documents is over 5M, I send 4 times.

Best Regards,

Gina

寄件人: <lucy.tsai@ccsemc.com>
收件人: <application@ccsrf.com>
副本抄送: <lucy.tsai@ccsemc.com>
日期: 2010/06/17 下午 08:54
主旨: Advantech Co. Ltd. , FCC ID: M82-MARS-3070, Assessment NO.: AN10T0494, Notice#1

Hi, Gina,

Please address following issues.

Q#1: Please check and confirm that there is no additional I/O port at the left side of the EUT.

Ans: Please find the updated External Photo report of revised the page A1-3 .

Q#2: The FCC ID indicated in page A1-17 & 18 of internal photos is the original module's FCC ID. Since this is a new system approval, please remove the module' s FCC ID from the module label.

Ans: Please find the updated internal photos which remove the module' s FCC ID from the module label.

Q#3: According to EUT internal photos, some modifications are made. Please provide an attestation letter issued by the grantee to demonstrate these modifications are approved by them.

Ans: Please find the DoC Modification Letter.

Q#4: This device has equipped with Bluetooth and WLAN modules inside, the RF exposure statements in page 8 of user manual mentioned this device must not be co-located with other transmitters are not suitable. Moreover, the item 2 of the RF exposure statement mentioned that this device is a notebook PC which should be revised to tablet PC. Please do the necessary correction.

Ans: Please find the updated user manual of revised the page 8.

Q#5: The EUT functional key or display as indicated in page 15-17 of user manual do not agree with EUT

external photos. Please check and provide the correct user manual.

Ans: Please find the updated user manual of revised the page 13-14.

Q#6: System block diagram (including page 24 & 45 of schematics) indicates a 3G module is equipped in this tablet PC but there is no information documented about this portion. Please address.

Ans: Please find the updated schematics and block diagram.

BT portion

Q#7: According to the internal photos, except a printed antenna, Bluetooth module has also connected with a PIFA antenna. But in the operational description and block diagram, only printed antenna is used. Please clarify.

Ans: Please find the updated operational description and block diagram.

Q#8: According to page 7 of test report, the highest output power is in 8DPSK mode but look into output power measured result in page 19, the highest output power is in GFSK mode. Please address.

Ans: Please find the updated TEST report of revised the page 7.

Q#9: Page 8 of test report indicated that the calibration due day of EMI test receiver is May 18, 2010 and test was carried started from May 18, 2010 but no information indicated when AC line conducted emission test was done. Please address.

Ans: Please find the updated Test report of revised the page 8 & 71 which added the conducted emission test date .

Q#10: The frequency 2313.33MHz and 2303.33MHz as indicated in page 66 and 70 are over the limit which is failed to comply with 15.209. Please address this incompliance issue.

Ans: Please find the updated Test report of revised the page 66 and 70.

Q#11: Since the output power is less than the power threshold that SAR evaluation is not required for BT portion. Please update page 74 of test report.

Ans: Please find the updated Test report of revised the page 74.

FYI: Per FCC Public Notice DA 00-705 / KDB 867751, when addressing RF conducted spurious emission at band edge, EUT shall be tested with hopping disabled and tune on low and high channel. Procedure also required to measure with hopping on to measure the band edge requirements. For future applications, please also submit the test plots with hopping on.

WLAN portion

Q#12: Page 8 of test report indicated that the calibration due day of EMI test receiver is May 18, 2010 and test was carried started from May 18, 2010 but no information indicated when AC line conducted emission test was done. Please address.

Ans: Please find the updated Test report of revised the page 8 & 71 which added the conducted emission test date .

Q#13: This device is tablet PC and it should be classified as portable device instead of mobile device. Please correct page 81 of test report.

Ans: Please find the updated Test report of revised the page 81.

SAR portion

Q#14: Please explain the column #2 and 4 indicated in the power table of bg mode in page 23 of SAR test report are for what modes. As for HT20 and HT40, please also explain why antenna A has to be measured twice and the result will be so different. By the way, the channel frequency for HT 40 in L and H channels are incorrect. Please revise.

Ans: Ans: Please find the updated SAR Test report of revised the page 24.

Q#15: According to all exhibits, this is a tablet PC, not a notebook PC. Please correct the description in page 24. And the KDB quoted for tablet PC shall be KDB 447498 and if need, then quote to KDB616217 D03 SAR Supp Note and Netbook Laptop v01. Please revise.

Ans: Ans: Please find the updated SAR Test report of revised the page 25.

Q#16: Page 23 of user manual indicates that this tablet PC can support four orientations. Per KDB 447498, each edge shall be investigated when each antenna located within 5 cm of the tablet edge closet to the user for the applicable display orientation. And according to the antenna illustration in page 24 of SAR report, the edge of secondary landscape shall be investigates since the antenna distance to user is less than 5cm. So, firstly please provide the justification according to KDB 447498 Section 4 (b) to explain why the edges of primary landscape, primary portrait and secondary portrait are not subject to SAR evaluation. Then conduct additional SAR test at the edge of the secondary landscape and then explain why co-location SAR of WLAN and BT are not required per KDB 447498.

Ans: Ans: Please find the updated SAR Test plots & updated SAR Test report of revised the page 24-26.

Q#17: Page 25 indicated two test setup photos, one indicated it is bottom Flat and another is tip edge. However, what is difference of these two test setup? To me, they are the same configurations- bottom of tablet PC in direct contact to the flat phantom.

Ans: Ans: Please find the updated SAR Test report of revised the page 26.

Q#18: According to SAR test plots, channel investigated for g mode is in high channel, not low channel. Please revise SAR test result table accordingly.

Ans: Ans: Please find the updated SAR Test report of revised the page 26.

Best Regards,
Lucy Tsai/UL CCS

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.