

From: Steve Cheng
Sent: Friday, June 27, 2003 3:36 PM
To: Mike Kuo
Cc: Anne Liang; CLIENT ADVOCATES; Michael Heckrotte
Subject: RE: Toshiba Corporation, FCC ID:CJ6UPA3231WL,AN03T2920
Hi Mike,

Please see text in blue below for response. Thanks.

Best regards,

Steve

-----Original Message-----

From: Mike Kuo
Sent: Friday, June 20, 2003 3:59 PM
To: Michael Heckrotte; Steve Cheng; CLIENT ADVOCATES
Cc: Anne Liang
Subject: FW: Toshiba Corporation, FCC ID:CJ6UPA3231WL,AN03T2920

-----Original Message-----

From: CERTADM
Sent: Friday, June 20, 2003 3:58 PM
To: 'mkuo@ccsemc.com'
Subject: Toshiba Corporation, FCC ID:CJ6UPA3231WL,AN03T2920

Notice_content

Question #1: Section 6 of test report, please specify the Laptop computer manufacturer.

<Response> Report revised

Question #2: Conducted output power was measured with peak power meter, section 5.3 of test report does not include Peak power meter information. Please provide it.

<Response> Report revised

Question #3: RF conducted output power : Peak power meter is used. Confirmation that the power meter used can measure 11.3 MHZ BW signals accurately. Please state the VBW of the probe.

<Response> Although this product generate the emission bandwidth of 11.3M, but due to the architecture of the 802.11, the internal symbol rate or amplitude modulation is actually less than 1.5M and we understand that the new quid line from the FCC is preferring the use of channel power method, but due to the fact that this project is initiated before new quid line issued and was following the old procedure and we have verified that the reported value does represent the actual output power. To demonstrate that reported power does not under estimated the output power we have did some experiment to measure typical 11a/b/g signal with different equipment as listed below and the result show great agreement to each other. This proved the peak power meter which we used with this filing does has enough video bandwidth to perform the assigned test. Please refer to attached file "experiment record" for detail. The VBW of the probe is 5M.

Question #4: Please provide solder side of EUT photo.

<Response> New photo uploaded.

Question #5: In the internal photo file, one of stick antenna is included. Based upon the length of antenna cable, when this antenna is installed in the notebook computer, it will not be able to provide 20cm separation distance. Please explain.

<Response> The stick antenna is not for this application, we have revised the file.

Question #6: User manual submitted is for CISCO product. Please provide user manual for the device filed in this application.

<Response> New user manual uploaded.

Question #7: Please provide OEM installation instruction.

<Response> New installation instruction uploaded.

Question #8: In accordance with test setup photo for AC line conducted tests, the EUT is not tested as stand alone configuration. Is EUT installed in the notebook computer during the tests ? If yes, please explain why the EUT is not tested as stand alone configuration.

<Response> Originally, applicant is pursuant the FMA, but due to the fact that extended card produce a lots of radiation in ITE emission band and a proper shielded extended card is not available, the applicant has changed this application to LMA and limit the certification only for tested configuration. All the test had been done with Tx module and antenna installed inside the tested laptop. The included photo is a wrong placement and setup photo has been revised.

Question #9: All component reference value in the schematic diagram can not be read. Please provide a clear copy of schematic diagram.

<Response> New schematic uploaded.

Question #10: Three antennas (Dual band film/ Wide Band Film and film antennas) are listed in the test report. Only one antenna specification is included the antenna specification attachments. In the internal photos, three antennas are included : Dual Band antenna, film antenna and stick antenna. Please harmonize the antenna information in the filing.

<Response> New antenna specification file uploaded.

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 60 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.