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

**From:** lucy\_tsai@ccsemc.com.tw [mailto:lucy\_tsai@ccsemc.com.tw]  
**Sent:** Tuesday, September 30, 2003 1:37 AM  
**To:** Steve Cheng  
**Cc:** 'Jonson (E-mail)'; 'Lucy (E-mail)'; Mike Kuo; Scott Wang  
**Subject:** ??: RE: ??: RE: ??: Re: AN03T3292 COMPALLAPTOP WITH11BWIRELESS

Hi Steve,

Attached please find the pre-scan EMC data and SAR test plot for antenna 1.

Best Regards,

Lucy

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

**From:** Steve Cheng  
**Sent:** Monday, September 29, 2003 8:26 PM  
**To:** 'lucy\_tsai@ccsemc.com.tw'  
**Cc:** Jonson (E-mail); Lucy (E-mail); Mike Kuo; Scott Wang  
**Subject:** RE: ??: RE: ??: Re: AN03T3292 COMPAL LAPTOP WITH11BWIRELESS

Hi Lucy,

Do you have any pre-scan data to support that the tested antenna is the worst case?

Best regards,

Steve

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

**From:** lucy\_tsai@ccsemc.com.tw [mailto:lucy\_tsai@ccsemc.com.tw]  
**Sent:** Monday, September 29, 2003 4:30 AM  
**To:** Steve Cheng  
**Cc:** Jonson (E-mail); Lucy (E-mail); Mike Kuo; Scott Wang  
**Subject:** ??: RE: ??: Re: AN03T3292 COMPAL LAPTOP WITH11BWIRELESS

9/30/2003

Hi Steve,

For Q1, we have revised the POA as attached file.

For Q8, we have verified both antennas but only recorded the worst one on the test report, please refer to attached reports for details.

Best Regards,

Lucy

**Steve Cheng**

<SCheng@CCSEMC.com>

???: "lucy\_tsai@ccsemc.com.tw" <lucy\_tsai@ccsemc.com.tw>

????: "Jonson (E-mail)" <jonson@cclab.com.tw>, "Lucy (E-mail)" <lucy\_tsai@cclab.com.tw>, Mike

Kuo <MKUO@CCSEMC.com>, Scott Wang <SWang@CCSEMC.com>

2003/09/27 11:10 AM

???: RE: ??: Re: AN03T3292 COMPAL LAPTOP WITH 11BWIRELESS

Hi Lucy, please see response below. Thanks.

Steve

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

From: lucy\_tsai@ccsemc.com.tw [mailto:lucy\_tsai@ccsemc.com.tw]

Sent: Thursday, September 25, 2003 6:09 PM

To: Steve Cheng

Cc: Jonson (E-mail); Lucy (E-mail); Mike Kuo; Scott Wang

Subject: ??? Re: AN03T3292 COMPAL LAPTOP WITH 11BWIRELESS

Dear Steve,

Please refer to the below for our reply.

Q1, both are refer to us. C&C is the old name and is replaced by CCS now recently and that's why the POA still shows C&C.

[Steve Cheng] Understand but please revise the POA if possible for consistence,

Q2, the SAR test report has been forward to you and please check if it's ok.

Besides, thank you for your clarify.

[Steve Cheng] See question 8 below.

Q3-4, the test report has been revised and please refer to the attached revised test report.

[Steve Cheng] ok.

Q5, it was our typing error and has been revised.

[Steve Cheng] ok.

Q6, please find attached for the revised user manual.

[Steve Cheng] ok.

Q7, The plot shown is peak value and the QP value is lower than AV limit, the AV is not necessary to be measured. As you know that normally the test equipment doesn't has support for making a plot for AV..

[Steve Cheng] ok.

New SAR/EMC question

Q8 regarding to both EMC and SAR test. In SAR report page 21, the EUT photo shown there are 2 build-in antennas, and in Operation description page 3 it described that the device is capable of using either one of the antenna to

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transmit the signal as reprinted below. Please justify why only one antenna is tested in EMC and SAR report?

".....From this point the signal is routed through the single band antenna diversity switch to one of the two U.FL antennae connectors. A discrete logic IC (not shown in the diagram) is used to decode antennae switching information from the CCK BBP IC in order to correctly operate the antenna switch. This IC is a 74LVC08 IC on the back of the PCB ....."

Thank you and best regards,

Lucy

Steve Cheng <SCheng@CCSEMC.com>  
2003/09/23 07:25 AM

??? : "Lucy (E-mail)" <lucy\_tsai@cclab.com.tw>, "Jonson  
(E-mail)" <jonson@cclab.com.tw>  
???? : Mike Kuo <MKUO@CCSEMC.com>, Scott Wang  
<SWang@CCSEMC.com>  
?? : Re: AN03T3292 COMPAL LAPTOP WITH 11B WIRELESS

RT for project: AN03T3292 COMPAL LAPTOP WITH 11B WIRELESS

Notice\_content

Question #1: Please clarify the name difference in POW letter and EMC test report. POW stated C&C Laboratory Co., Ltd. But EMC report used Compliance Certification Services.

Question #2: Since Antenna is installed on the bottom of the laptop screen and is consider as a portable device, and also on page 9 of users manual stated that "This device was tested for typical lap held operations with the device contacted directly to the human body to the back side of the notebook computer" and page 25 section "7.5 RADIO FREQUENCY EXPOSURE" of EMC test report refer to SAR test, but no SAR test report found. Please supply SAR test data.

For your infor: Since Tx module output only 42.27mw, and could be exempted from SAR test if radiating structure could be maintain at least 2.5cm from the human body. Please supply the separation distance of radiating antenna to user if this is a desirable scenario.

Question #3: Please correct typo on page 5 of EMC test report, 15.407 in section 3 TEST METHODOLOGY shall be corrected to 15.247.

Question #4: Per 15.247(a.2), Page 11 of test report, 6dB bandwidth limit is 500K not 500MHz. Please correct.

Question #5: Page 22, PSD test Low channel shall be -7.35dBm and High channel shall be -6.71dBm according to test plots. Please correct.

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Question #6: P74 of users manual, touch pad picture is not matching the actual device

Question #7: Page 41, line one, line conducted test shown failing data which peak reading over both Average and Quasi-peak limit. Please supply a proper plot to support the passing data indicated on page 40.

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.

Best Regards

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<http://www.ccsemc.com> << File: Compal (CL32) UserMan\_revised.pdf >> <<  
File: B30827205-RP (Revised) .pdf >>

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