

From: eric@ccsemc.com.tw
Sent: Wednesday, October 15, 2003 8:44 PM
To: scheng@ccsemc.com
Cc: eric@ccsemc.com.tw; salena@ccsemc.com.tw; julia_wei@ccsemc.com.tw;
skang@ccsemc.com.tw; jonson@ccsemc.com.tw; miro@ccsemc.com.tw;
lucy_tsai@ccsemc.com.tw; mkuo@ccsemc.com; swang@ccsemc.com
Subject: RE: ???: RE: AN03T3257-DTS-COMPAL-GKRWM3BAB51

Hi, Steve,

This is the replies for the DTS submission,

Q5. Regarding to the Ant. spec., as you may seen the evaluation on the spec. is done in 2 ways: solely the ant. itself and tested with the host device, ie the EUT of this submission. The gain we'd used is the gains tested with the host device (EUT) is 3.28dBi (on pg.8). You may find further of this from the documentations re-sent this time.

Q6. Please find the report which have been revised per your comment.

Thank you!!

Should you have any question, please don't hesitate to ask me.

Best regards,

Eric Wong

Compliance Certification Services Inc. (Formerly C&C Laboratory Co., Ltd.)

Tel.: +886-3-3240332 Ext.49

Add.: No.81-1, Lane 210, Ba-de 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan, R.O.C.

Email: eric@ccsemc.com.tw

URL: http://www.ccsemc.com.tw

----- 轉呈者 eric/ccsemc 於 2003/10/16 11:19 AM -----
salena

楊靜姍
2003/10/14 03:40 PM

收件人： eric/ccsemc@ccsemc
副本抄送：
主旨： RE: ???: RE: AN03T3257-DTS-COMPAL-

GKRWM3BAB51

----- 轉呈者 salena/ccsemc 於 2003/10/14 03:38 PM -----
salena

楊靜姍
2003/10/14 01:34 PM

收件人： miro/ccsemc@ccsemc
副本抄送：
主旨： RE: ??: RE: AN03T3257-DTS-COMPAL-
GKRWM3BAB51

Dear Miro,

附件為修改後報告，請
查收，謝謝！

靜姍
----- 轉呈者 salena/ccsemc 於 2003/10/14 01:30 PM -----
lucy_tsai
 蔡文君
 2003/10/08 01:14 PM

收件人： miro/ccsemc@ccsemc,
julia_wei/ccsemc@ccsemc
 副本抄送：
salena/ccsemc@ccsemc, eric/ccsemc@ccsemc, jonson/ccsemc@ccsemc
 主旨： RE: ??: RE: AN03T3257-DTS-COMPAL-
GKRWM3BAB51

Hi Miro,

Please check Steve's comment about the Q6, and do the necessary, thank you.

Hi Julia and Salena,

Please check Steve's comment about the Q5 and Compal about this issue, thank you.

Best Regards,

Lucy

----- 轉呈者 lucy_tsai/ccsemc 於 2003/10/08 01:12 PM ---
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 Steve Cheng <SCheng@CCSEMC.com>
 2003/10/08 12:43 PM

收件人：
"lucy_tsai@ccsemc.com.tw" <lucy_tsai@ccsemc.com.tw>
 副本抄送： "Jonson (E-mail)"
<jonson@cclab.com.tw>, Mike Kuo <MKUO@CCSEMC.com>, Scott Wang <SWang@CCSEMC.com>
 主旨： RE: ??: RE: AN03T3257-DTS-COMPAL-
GKRWM3BAB51

Hi Lucy,

Sorry for the delay,due to the computer crash, I had to spend some time to fix my laptop. Will answer UNII part tomorrow.

Best regards,
Steve

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

From: lucy_tsai@ccsemc.com.tw [mailto:lucy_tsai@ccsemc.com.tw]

Sent: Monday, October 06, 2003 2:30 AM

To: Steve Cheng

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

Subject: ??: RE: AN03T3257-DTS-COMPAL-GKRWM3BAB51

Hi Steve,

Below please find the reply of DTS and UNII portions.

for DTS portion:

Q1, please refer to the attached revised test report.

[SCheng] ok

Q2, yes, it is.

[SCheng] ok

Q3, yes, it is.

[SCheng] ok

Q4, please refer to the attached revised test report.

[SCheng] ok

Q5, please refer page8 of Antenna Spec file. 3.28dBi maximum antenna gain in 2.4GHz band.

[SCheng] Antenna spec, p2 table "Antenna assembly overview table: Peak Gain including cable loss" indicated different number. please harmonize the summary table with test data.

Q6, regarding this test, it can base on either an RF conducted or a radiated measurement. And we used radiated method as recorded on the test report.

[SCheng] Although 15.247(c) indicated this test could be either conducted or radiated, but specific RBW and VBW has to be used during the measurement. The supplied data was measured per 15.209 and was not following the 15.247 method. Please supply required test data per 15.247(c).

For your info, the last paragraph of "Guidance on Measurements for Direct Sequence Spread Spectrum Systems" stated that: "If antenna conducted tests cannot be performed on this device, radiated tests to show compliance with the various conducted requirements of Section 15.247 are acceptable". Please notice that the conducted test is default method and this device does has antenna port for conducted test.

for UNII portion:

Q1, please refer to P4 of the UNII test report for the revised one.

Q2, yes, it is.

Q3, please refer to P12 of the UNII test report for the revised one.

Q4, please refer to P24 of the UNII test report for the revised one.

Q5, please refer to P24 of the UNII test report for the revised one.

Q6, it's because 3dB is Cable loss and bias-tee insertion loss.

Q7, we can't find the reason for this issue, but it is used to measure the AV value. We have checked FCC web and found all test reports used this BW.

Q8, we have removed conducted unwanted emission section since it's not required, so please refer to the revised UNII test report.

Please help to review them and issue the grant asap.

Thank you and best regards,

Lucy

Steve Cheng <SCheng@CCSEMC.com>
2003/10/03 06:42 AM

收件人： "Lucy (E-mail)"
<lucy_tsai@cclab.com.tw>, "Jonson (E-mail)" <jonson@cclab.com.tw>
副本抄送： Mike Kuo
<MKUO@CCSEMC.com>, Scott Wang <SWang@CCSEMC.com>
主旨： RE: AN03T3257-DTS-COMPAL-
GKRWM3BAB51

RT for project: AN03T3257-DTS-COMPAL-GKRWM3BAB51

Question #1: EMC report p5 section 3 used wrong test rule part, 15.407 shall be 15.207

Question #2: EMC p6, section 3.5 stated that "3.5 DESCRIPTION OF TEST MODES. ...Peak Output Power was tested for both Antenna ports J5 and J6. The port J5 is higher than J6. The other test items of worst case at Antenna port A.". Does Antenna port A be Port J5?

Question #3: EMC p6, Please clarify, if selected data rate is the worst case setup?

Question #4: EMC p18, Please re-scan all band edge plots; it is too blurred and is not readable.

Question #5: p25, the antenna gain used in MPE calculation is not matching the summary table in antenna spec file. Please clarify.

Question #6: Per FCC "Guidance on Measurements for Direct Sequence Spread Spectrum Systems, Section 15.247(c): Spurious emissions." The following tests are required:

(1) RF antenna conducted test: Set RBW = 100 kHz, Video bandwidth (VBW) > RBW, scan up through 10th harmonic. All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The test data is missing. Please supply.

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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