

## Mike Kuo

---

**From:** alice.lan [alice.lan@tw.ccsemc.com] on behalf of application [application@tw.ccsemc.com]  
**Sent:** Monday, November 12, 2007 9:54 PM  
**To:** Mike Kuo  
**Subject:** Re:Re:RE: Alpha Networks Inc., FCC ID: RRK-C300RC, Assessment NO.: AN07T7271, Notice#1  
**Attachments:** C300RC antenna.pdf; 802.11n- HT40.pdf

### application

寄件人： alice.lan 收件人： application.2007@tw.ccsemc.com@ccsemc  
副本抄送：  
藍怡蘭 主旨： Re:Re:RE: Alpha Networks Inc., FCC ID: RRK-C300RC, Assessment NO.: AN07T7271, Notice#1 [連結](#)

2007/11/13 01:36 PM

Dear Mike,

Good afternoon. The below is a response for FCC ID:

Question#1: Please confirm during radiated restricted band edge and spurious emission tests, both transmitting chains were activated in CDD and MIMO mode.

SAR portion:

Question:2 During the SAR evaluation, due to the device is capable of transmitting at legacy mode( single chain transmission ) and also in CDD/MIMO mode ( dual TX chains transmission), while the device is configured with dual chain transmission, multiple hot spots are expected. However, as indicated in the SAR plots, only one hot spot is observed. Please confirm during the SAR evaluation, CDD/MIMO mode with dual TX chain activated were investigated and explain why there is only one hot spot shown on plots.

### Answer:

(1) Check antenna ports, EUT's function is ok, "TX/Chain 0" and "TX/Chain 1" transmitting RF power, RX/Chain 2 can't , and conducted power is closely SAR test report.

(2) Try to adjusted the distance between EUT and phantom from 9mm to 2mm, in Area Scan still has one hot spot, and hot spot almost at the center of EUT's breadth(as the attach PDF file "802.11n- HT40.PDF").

(3) "TX/Chain 0" and "TX/Chain 1" antenna's design is by 90 degree intersections, so during MIMO mode with dual TX chain activated, possibly generate RF energy will concenter, and get one hot spot(as the attach PDF file "C300RC antenna.PDF").

Please find attachment.Thank you very much.

Best Regarding,

Alice

**application**

寄件人 : alice.lan 收件人 : "application" <application@tw.ccsemc.com>  
藍怡蘭 副本抄送 : "Mike Kuo" <mike.kuo@ccsemc.com>, "Lucy Tsai" <lucy.tsai@ccsemc.com>  
主旨 : Re:RE: Alpha Networks Inc., FCC ID: RRK-C300RC, Assessment NO.: AN07T7271, Notice#[連結](#)

2007/11/06 07:57 PM

Dear Mike,

Sorry that delay this case.  
The case is under testing SAR.  
Thanks your reminding.

"Mike Kuo" <mike.kuo@ccsemc.com>

2007/10/31 02:02 PM

收件人 : "Mike Kuo" <mike.kuo@ccsemc.com>, "application" <application@tw.ccsemc.com>  
副本抄送 : "Lucy Tsai" <lucy.tsai@ccsemc.com>  
主旨 : RE: Alpha Networks Inc., FCC ID: RRK-C300RC, Assessment NO.: AN07T7271, Notice#1

What is the status for this request?

Best Regards

Mike Kuo  
Compliance Certification Services  
47173 Benicia Street  
Fremont, CA 94538  
Direct: (510) 771-1105  
Fax: (510) 661-0888  
Main: (510) 771-1000  
e-mail:mike.kuo@ccsemc.com  
Web Site:www.ccsemc.com

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

From: Mike Kuo  
Sent: Monday, October 15, 2007 10:18 PM  
To: 'application'  
Cc: Lucy Tsai

Administrative portion:

No issue.

EMC portion:

FYI: for PPSD tests, you are required to perform the tests on individual chain and with combiner. You are not required to sum the each chain.

Question#1: Please confirm during radiated restricted band edge and spurious emission tests, both transmitting chains were activated in CDD and MIMO mode.

SAR portion:

Question:2 During the SAR evaluation, due to the device is capable of transmitting at legacy mode( single chain transmission ) and also in CDD/MIMO mode ( dual TX chains transmission), while the device is configured with dual chain transmission, multiple hot spots are expected. However, as indicated in the SAR plots, only one hot spot is observed. Please confirm during the SAR evaluation, CDD/MIMO mode with dual TX chain activated were investigated and explain why there is only one hot spot shown on plots.

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 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.

No virus found in this incoming message.

Checked by AVG Free Edition.

Version: 7.5.488 / Virus Database: 269.14.11/1071 - Release Date: 10/15/2007 6:48 AM

No virus found in this outgoing message.

Checked by AVG Free Edition.

Version: 7.5.488 / Virus Database: 269.14.11/1071 - Release Date: 10/15/2007 6:48 AM

No virus found in this outgoing message.

Checked by AVG Free Edition.

Version: 7.5.503 / Virus Database: 269.15.13/1099 - Release Date: 10/30/2007 10:06 AM

---

This e-mail transmission is confidential and intended solely for being reviewed by the recipient(s) identified above. If you are not an identified recipient, please ensure that this communication remains confidential and promptly return it to the sender. Please contact

immediately by phone (Tel: 886-2-2299-9720) for any problem with  
this transmission. Thank you for your attention.

No virus found in this incoming message.

Checked by AVG Free Edition.

Version: 7.5.503 / Virus Database: 269.15.30/1126 - Release Date: 11/12/2007 12:56 PM