

## Chris Harvey

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**From:** Mike Kuo [mike.kuo@ccsemc.com]  
**Sent:** Tuesday, January 08, 2008 9:43 PM  
**To:** Chris Harvey  
**Subject:** RE: mail 2-2 RE: mail 2-1 RE: WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC ID: VV6WM62, Assessment NO.: AN07T7436, Notice#3  
**Importance:** High

Hi Chris:

Can you work on the grant condition first? Three people from 7 layer called me. They have to have grant issued today. I informed them they have to confirm the file before we can issue the grant. They said will provide confirmation within 1 hour. At the meantime, please work on the grant condition. Once you received their confirmation, please send me evaluation report and I will get back to you right away. I will do the file upload with your TC confirmation number.

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

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**From:** Chris Harvey [mailto:charvey@ieee.org]  
**Sent:** Tuesday, January 08, 2008 2:32 PM  
**To:** 'wubinyu'  
**Cc:** Mike Kuo  
**Subject:** RE: mail 2-2 RE: mail 2-1 RE: WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC ID: VV6WM62, Assessment NO.: AN07T7436, Notice#3

Beverly, I reviewed this along with Mike Kuo and have the following additional request regarding the test simulator screen shots:

1. Please see the attached revised file and confirm that this is correct. If you can confirm that you used the same setting, please send a revised file to me, then we can use the revised file without needing any more screen shots. The screen shots that you provided did not provide the information that we are looking for.

Please contact me if you have any further questions.

Best regards,

Chris Harvey

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**From:** wubinyu [mailto:[binyu.wu@ritt.7layers.cn](mailto:binyu.wu@ritt.7layers.cn)]

**Sent:** Tuesday, January 08, 2008 11:37 AM

**To:** 'Chris Harvey'

**Subject:** RE: mail 2-2 RE: mail 2-1 RE: WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC

ID: VV6WM62, Assessment NO.: AN07T7436, Notice#3

Thank you Chris!

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**From:** Chris Harvey [mailto:[charvey@ieee.org](mailto:charvey@ieee.org)]

**Sent:** 2008-01-08 0:25

**To:** 'wubinyu'; [charvey-tcb@ccsemc.com](mailto:charvey-tcb@ccsemc.com)

**Cc:** [mkuo@ccsemc.com](mailto:mkuo@ccsemc.com); [lixia.yang@ritt.7layers.cn](mailto:lixia.yang@ritt.7layers.cn); 'Lucy Tsai'; 'liuwei'

**Subject:** RE: mail 2-2 RE: mail 2-1 RE: WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC

ID: VV6WM62, Assessment NO.: AN07T7436, Notice#3

Beverly, I have received both e-mails with attachments and will start reviewing shortly.

Best regards,

Chris Harvey

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**From:** wubinyu [mailto:[binyu.wu@ritt.7layers.cn](mailto:binyu.wu@ritt.7layers.cn)]

**Sent:** Tuesday, January 08, 2008 11:11 AM

**To:** 'Chris Harvey'; [charvey-tcb@ccsemc.com](mailto:charvey-tcb@ccsemc.com)

**Cc:** [mkuo@ccsemc.com](mailto:mkuo@ccsemc.com); [lixia.yang@ritt.7layers.cn](mailto:lixia.yang@ritt.7layers.cn); 'Lucy Tsai'; 'liuwei'

**Subject:** mail 2-2 RE: mail 2-1 RE: WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC ID:

VV6WM62, Assessment NO.: AN07T7436, Notice#3

This is mail 2-2. Thanks.

Beverley

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**From:** wubinyu [mailto:[binyu.wu@ritt.7layers.cn](mailto:binyu.wu@ritt.7layers.cn)]

**Sent:** 2008-01-08 0:06

**To:** 'liuwei'; 'Chris Harvey'; [charvey-tcb@ccsemc.com](mailto:charvey-tcb@ccsemc.com)'

**Cc:** [mkuo@ccsemc.com](mailto:mkuo@ccsemc.com)'; [lixia.yang@ritt.7layers.cn](mailto:lixia.yang@ritt.7layers.cn)'; 'Lucy Tsai'

**Subject:** mail 2-1 RE: WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC ID: VV6WM62,  
Assessment NO.: AN07T7436, Notice#3

Dear Chris,

Please see our respond below.

Update file:

Folder <20080108\_1>

01\_Authorization Letter for FCC application(new Jan72008)\_FCC

Confidentiality Request

Send by mail 2-1

Folder<20080108\_2>

Attachment to I07GE6474-FCC-EMC

I07GE6474-FCC-PART15B2

Send by mail 2-1

Folder<20080108\_3>

I07GE6474-FCC-EMC2

Send by mail 2-2

Could you please check the screen shot first, please send us a feedback. We are waiting in the office. If it still not clear, we will send again.

Many thanks.

Best regards,

Beverley

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**From:** Chris Harvey [mailto:charvey@ieee.org]

**Sent:** Tuesday, January 08, 2008 12:31 AM

**To:** 'liuwei'; charvey-tcb@ccsemc.com

**Cc:** mkuo@ccsemc.com; lixia.yang@ritt.7layers.cn; 'Lucy Tsai'; 'wubinyu'

**Subject:** RE: WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC ID: VV6WM62, Assessment NO.: AN07T7436, Notice#3

Here are the current comments on the application. There are still significant issues with this application and it is difficult to tell if the correct testing was performed.

You completed the following table, but there are several errors:

<Longcheer>

Frequency Range	Operating Mode	Rated RF Power output in watts	Frequency tolerance %, Hz ppm	Emission designator (see FCC 47 CFR 2.201 and

				2.202)
<b>824.2MHz~828.8MHz</b>	<b>GSM850 GPRS</b>	<b>2W</b>	<b>;±0.1ppm</b>	<b>250KGXW</b>
<b>824.2MHz~828.8MHz</b>	<b>GSM850 EDGE</b>	<b>2W</b>	<b>;±0.1ppm</b>	<b>248KG7W</b>
<b>1850.2MHz~1909.8MHz</b>	<b>GSM1900 GPRS</b>	<b>1W</b>	<b>;±0.1ppm</b>	<b>250KGXW</b>
<b>1850.2MHz~1909.8MHz</b>	<b>GSM1900 EDGE</b>	<b>1W</b>	<b>;±0.1ppm</b>	<b>248KG7W</b>
<b>826.4MHz~846.6MHz</b>	<b>UMTS850</b>	<b>0.25W</b>	<b>;±0.1ppm</b>	<b>4M40F9W</b>
<b>826.4MHz~846.6MHz</b>	<b>UMTS850 HSDPA</b>	<b>0.25W</b>	<b>;±0.1ppm</b>	<b>4M70F9W</b>
<b>1852.4MHz~1907.6MHz</b>	<b>UMTS1900</b>	<b>0.25W</b>	<b>;±0.1ppm</b>	<b>4M40F9W</b>
<b>1852.4MHz~1907.6MHz</b>	<b>UMTS1900 HSDPA</b>	<b>0.25W</b>	<b>;±0.1ppm</b>	<b>4M70F9W</b>

You were requested to list the frequency from the center of the lowest channel to the center frequency of the highest channel, but listed something different and the correct Emission Designators. The test report indicates that the Emission Designator of EDGE modulation is 400KG7W. As an example, the report has data for GPRS mode of 824.2 °C 848.8 MHz, 29.25 dBm ERP (equals 0.841 Watts ERP) and emission designator 248KGXW. Please complete the table for each modulation, center frequency of low and high channel of operation, measured ERP/EIRP power, and Emission Designator using the measured 99% BW and correct Modulation code.

The test report has data for The test report shows test data for channel 128 operating at 823.927856 MHz (page 34 of 73), which is outside of the allowed FCC band for Pt. 22H.

<CTTL>please ref. update test report < Attachment to I07GE6474-FCC-EMC2>

The band edge data does not have data for band edge of GPRS channel 128. The information is not consistent in the report, but Channel 128 appears to have a center frequency of 824.2 MHz. The EDGE modulated signal is approximately 400 kHz wide, which would have emissions of significant strength on the band edge of 824.0MHz. The data on pages 15 and 16 of 73 has ;@band edge; radiated data, with the EUT operating in the center frequency of the band, but also indicates levels that exceed the -13dBm limit stated on page 13. Band edge data should be provided for each modulation at the lowest and highest channel of operation in each band, and should indicate the frequency of the measurement.

<CTTL> please ref update test report < I07GE6474-FCC-EMC2 >

You have submitted exhibits of the CMU200 screen shots, but the resolution of the photos do not allow the text of the screen shot to be read. Please submit higher resolution images to allow for reading the text on the CMU200 screen. It may be that the resolution was reduced when creating the pdf file.

<CTTL>please ref update file <Attachment to I07GE6474-FCC-EMC>

The replacement FCC Part 15 Subpart B application (to include the ANSI C63.4:2003 test configuration) has the exact data, including the plots, from the previous version with the incorrect test setup configuration. Please explain how the re-measured device has identical data and identical plots.

<CTTL>please ref update test report <I07GE6474-FCC-PART15B2>

Please address all the issues above and replace the exhibits that need to be updated.

Please contact me if you have any questions.

Best regards,

Chris Harvey

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**From:** liuwei [mailto:[wei.liu@ritt.7layers.cn](mailto:wei.liu@ritt.7layers.cn)]  
**Sent:** Monday, January 07, 2008 11:25 AM  
**To:** 'Chris Harvey'; [charvey-tcb@ccsemc.com](mailto:charvey-tcb@ccsemc.com)  
**Cc:** [mkuo@ccsemc.com](mailto:mkuo@ccsemc.com); [lixia.yang@ritt.7layers.cn](mailto:lixia.yang@ritt.7layers.cn); 'Lucy Tsai'; 'wubinyu'  
**Subject:** RE: WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC ID: VV6WM62, Assessment NO.: AN07T7436, Notice#3

Hi Chris,

I'm Liuwei from 7layers Beijing. Beverley is my colleague.

About the WM62, Our client Longcheer want to get the opinion from you, we have uploaded all test report and information. could you please review the reports that Beverley sent to you, Is there any comments?

It is a matter of great urgency. Today we must send the expert opinion to our client, Please help to review them ASAP.

Best regards

**Liu Wei**

Project Manager

**ritt7layers**

Beijing 7 layers Huarui Communications Technology Co., Ltd.

No. 11 Yue Tan Nan Street, Xi Cheng District

100045 Beijing, P. R. China

Phone: +86 (0) 10 68050368-138

Fax: +86 (0) 10 68050370

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Email: [wei.liu@ritt.7layers.cn](mailto:wei.liu@ritt.7layers.cn)

<http://ritt.7Layers.com.cn>

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**From:** wubinyu [mailto:[binyu.wu@ritt.7layers.cn](mailto:binyu.wu@ritt.7layers.cn)]

**Sent:** Monday, January 07, 2008 9:41 AM

**To:** 'Chris Harvey'; [charvey-tcb@ccsemc.com](mailto:charvey-tcb@ccsemc.com)

**Cc:** [mkuo@ccsemc.com](mailto:mkuo@ccsemc.com); [lixia.yang@ritt.7layers.cn](mailto:lixia.yang@ritt.7layers.cn); 'Lucy Tsai'; 'liuwei'

**Subject:** RE: WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC ID: VV6WM62, Assessment

NO.: AN07T7436, Notice#3

Chris,

Sorry, this is the first one I should send.

Are there any comments for the documents I send before?

This is very urgent case, could you please review it ASAP. Really appreciate your help!

Best regards,

Beverley

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**From:** Chris Harvey [mailto:charvey@ieee.org]

**Sent:** 2008-01-04 22:36

**To:** 'wubinyu'; charvey-tcb@ccsemc.com

**Cc:** mkuo@ccsemc.com; lixia.yang@ritt.7layers.cn; 'Lucy Tsai'; 'liuwei'

**Subject:** RE: WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC ID: VV6WM62, Assessment NO.: AN07T7436, Notice#3

Beverly, you sent the same zipped files in both e-mails. I received 3 files:

Attachment to I07GE6474-FCC-EMC1

I07GE6474-FCC-PART15

Worse Case Evaluation per FCC 3G SAR Evaluation Criteria \_WM62

Did you mean to send more files?

Thank you,

Chris Harvey

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**From:** wubinyu [mailto:binyu.wu@ritt.7layers.cn]

**Sent:** Friday, January 04, 2008 9:22 AM

**To:** charvey-tcb@ccsemc.com

**Cc:** mkuo@ccsemc.com; lixia.yang@ritt.7layers.cn; 'Lucy Tsai'; 'liuwei'

**Subject:** WM62 update 2-2 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC ID: VV6WM62, Assessment NO.: AN07T7436, Notice#3

This is 2-1.

Thanks.

Beverley

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**From:** wubinyu [mailto:binyu.wu@ritt.7layers.cn]

**Sent:** 2008-01-04 22:20

**To:** 'charvey-tcb@ccsemc.com'

**Cc:** 'mkuo@ccsemc.com'; 'lixia.yang@ritt.7layers.cn'; 'Lucy Tsai'; 'liuwei'  
**Subject:** WM62 update 2-1 RE: Longcheer Technology (Shanghai) Co., Ltd., FCC ID: VV6WM62, Assessment NO.: AN07T7436, Notice#3

Dear Chris,

Thanks for your comments.

Please see attached test report after modification.

As the files are too big, I send by to mails, this is 2-1.

It is a very urgent case, could you please review the test report, if there is any question, please let us know ASAP.

Thanks in advance for your support.

Have a good weekend.

Best regards,

Beverley

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

From: charvey-tcb@ccsemc.com [mailto:charvey-tcb@ccsemc.com]  
Sent: 2008-04-06 6:17  
To: binyu.wu@ritt.7layers.cn  
Cc: charvey-tcb@ccsemc.com; mkuo@ccsemc.com; lixia.yang@ritt.7layers.cn  
Subject: Longcheer Technology (Shanghai) Co., Ltd., FCC ID: VV6WM62, Assessment NO.: AN07T7436, Notice#3

Dear Beverly (Bin Yu) Wu (copy Yang Lixia)

I have received your response to my second notice and still find significant errors in the application. I have not completed this review and have found the following items that need to be addressed:

1. EDGE emission designator should be G7W (not GXW)

<CTTL> Please ref Test report <I07GE6474-FCC-EMC1> and < Attachment to I07GE6474-FCC-PART15>

2. FCC PC Peripheral Test Report listed 15.209 and without AC line conducted test data. The test setup is not complied with ANSI C63.4 Annex E to have at least two different I/O port connected during the tests. Also, a Certification application (as a composite device) must be submitted since this device was tested in a laboratory that does not qualify for DoC testing. DoC route is not an option for CCTL. They need to retest 15.109/15.107 with proper test setup.

<CTTL> Please ref test report <I07GE6474-FCC-PART15>

3. Part 22/24 test report did not specify test procedure used. I think you using EU procedure for ERP/EIRP tests which is not acceptable to FCC.

<CTTL> We add the information in the test report <I07GE6474-FCC-EMC1>, test performed was based on TIA/EIA-603-B.

4. In regards to 3G policy, you were provided a guideline to do the base line investigation on the output power. This data must be provided in order to comply with the FCC 3G policies. If you can not provide CMU 200 screen shots, you can provide a detailed text description on the CMU 200 setting.

<CTTL> Please ref <Worse Case Evaluation per FCC 3G SAR Evaluation Criteria \_WM62>, the CMU 200 and Agilent 8960 screen shots are in < Attachment to I07GE6474-FCC-EMC1>

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.

Best regards,

Chris Harvey  
Charvey-tcb@ccsemc.com

No virus found in this incoming message.  
Checked by AVG Free Edition.  
Version: 7.5.516 / Virus Database: 269.17.13/1214 - Release Date: 1/8/2008 1:38 PM

No virus found in this outgoing message.  
Checked by AVG Free Edition.  
Version: 7.5.516 / Virus Database: 269.17.13/1214 - Release Date: 1/8/2008 1:38 PM