

**Mike Kuo**

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**From:** Sun-Hee Kim(HCT) [alondra@hct.co.kr]  
**Sent:** Tuesday, November 01, 2005 5:57 AM  
**To:** Kathy Yao; Mike Kuo; Scott Wang; Sunny Shih  
**Cc:** (HCT) 임지영; ??? \ (HCT\); ??? \ (HCT\); ??? \ (HCT\); ??? \ (HCT\); ??? \ (HCT\)  
**Subject:** Re: HYUNDAI CURITEL INC., FCC ID: PP4PP4TX-230, Assessment NO.: AN05T5237, Notice#1  
**Attachments:** APPENDIX A-HAC TEST PLOTS-new.pdf; HAC REPORT\_TX-230-new.pdf; probe grid setting-E.jpg; probe grid setting-H.jpg

Dear Sir,

Thank you for your cooperation.

We have received the samples today and we have tested.

Please review the attachment files.

**FCC ID : PP4TTX-230**

HAC Portion :

1. Please provide a screen shots on the probe grid setting used during HAC tests .

==> file name "probe grid setting-E", "probe grid setting-H"

2. Please provide probe modulation factor for 80% AM and compare to expected.

==> file name "HAC REPORT\_TX-230-new"

3. Please retest worst configuration and include probe azimuth rotation at the final measurement location  
If you have any questions please do not hesitate to contact us.

==> file name "APPENDIX A-HAC TEST PLOTS-new"

**As you know, this is very urgent project!!**

**Your prompt attentions would be much appreciated.**

If you have any questions please do not hesitate to contact us.

Best Regards,

Ms.Sun- Hee KIM

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

**From:** Sun-Hee Kim(HCT) [mailto:alondra@hct.co.kr]  
**Sent:** Friday, October 21, 2005 2:01 AM  
**To:** Chris Harvey; Chris Harvey -TCB  
**Cc:** ??? \ (HCT\); ??? \ (HCT\); ??? \ (HCT\); ??? \ (HCT\); kyao; charvey-tcb  
**Subject:** Re: HYUNDAI CURITEL INC., FCC ID: PP4PP4TX-230, Assessment NO.: AN05T5237, Notice#1

Dear Sir,

Thank you for your cooperation.

We uploaded the "Authorization Letter" to the CCS website today.

And please find the attachment file.

[é](#) file name

This explain the available RC and SO combination options and indicate which combination was used during the tests.

We used E5515C Base station simulator and test device is directly connect to base station simulator via mobile cable to measure maximum output power in all applicable mode.

And the worst case was used during the Test.

If you have questions or comments, please do not hesitate to contact us.

Your prompt attentions would be much appreciated.

Thank you.

Best Regards,

Sun- Hee KIM - HCT

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Ms. Sun-hee Kim - Assistant Manager  
EMC/Telecom Team, SAR Part  
Product Compliance Division  
Hyundai Calibration & Certification Co.,Ltd (HCT)  
San 136-1, Ami-ri , Bubal-eup, Icheon-si,  
Kyounggi- do, Korea (467-701)

Tel. : (82-31)639-8565/ 8518  
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H.P.: 011-9558-9875

E-mail : [alondra@hct.co.kr](mailto:alondra@hct.co.kr)  
<http://www.hct.co.kr>

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

**From:** 박근호 대리(HCT)

**To:** [Chris Harvey : 'Compliance Certification Services'](mailto:Chris.Harvey@CCSEMC.com)  
**Cc:** ['Kathy.Yao@CCSEMC.com'](mailto:Kathy.Yao@CCSEMC.com) ; ['charvey-tcb@CCSEMC.com'](mailto:charvey-tcb@CCSEMC.com) ; ['Kathy.Yao@CCSEMC.com'](mailto:Kathy.Yao@CCSEMC.com)

**Sent:** Thursday, October 20, 2005 7:51 PM  
**Subject:** Re: HYUNDAI CURITEL INC., FCC ID: PP4PP4TX-230, Assessment NO.: AN05T5237,  
Notice#1

Dear, Sir

Thank you for your email.

We will check and inform you soon.

Best Regards,

Keun Ho Park

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

**From:** [Chris Harvey](#)  
**To:** '['Ù±ÙÈ£ ª, ® \W\(HCTW\)](#)' ; '[Compliance Certification Services](#)'  
**Cc:** '[±è½±ÈñW\(HCTW\)](#)' ; '[Á¤¹®ÁººúÀåW\(HCTW\)](#)' ; [charvey-tcb@CCSEMC.com](mailto:charvey-tcb@CCSEMC.com) ; [kathy.yao@CCSEMC.com](mailto:kathy.yao@CCSEMC.com)

**Sent:** Thursday, October 20, 2005 7:32 PM

**Subject:** RE: HYUNDAI CURITEL INC., FCC ID: PP4PP4TX-230, Assessment NO.: AN05T5237, Notice#1

KH Park, the Authorization letter template is attached. Please update as needed, sign and include this in all applications submitted to CCS.

I am reviewing your answers below and think we need additional information. The FCC has been recently concerned about many of the RC's in CDMA2000 that need to have special attention during compliance testing. They have indicated that:

For uplink, RC1 – RC4 operate in 1x mode (1.2288 Mcps) and RC4 – RC5 operate in 1x mode (3.6468 Mcps). Ev-Do is the high speed packet data option that operates independently of CDMA-2000, but using CDMA-2000 infrastructures. Ev-Do and Ev-Dv are also deployed according to the 1x (1.2288 Mcps) and 3x (3.6468 Mcps) modes defined by 3GPP2.

You have indicated below that your handset operates in RC1 – RC5 and is Ev-Do capable, which seems to indicate that in the RC4 & RC5 and Ev-Do modes there should be wider bandwidth signals. Please provide further information about the modes of operation used during the tests, the means of controlling the handset to go into those modes and what was done to determine the worst case modes. Does this handset operate with the wider bandwidth signals (wider than 1.25Mhz channels)?

I have received the additional files you sent by e-mail and will be sure these get uploaded to the CCS database.

Best regards,

**Chris Harvey**

Chris Harvey EMC Consultants, Inc.  
[charvey@ieee.org](mailto:charvey@ieee.org)  
cell 443-622-3300

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

**From:** '['Ù±ÙÈ£ ª, ® \W\(HCT\\)](#)' [mailto:[khpark@hct.co.kr](mailto:khpark@hct.co.kr)]

**Sent:** Thursday, October 20, 2005 4:38 AM

**To:** Compliance Certification Services

**Cc:** ±è½±Èñ\W(HCT\); [charvey-tcb@CCSEMC.com](mailto:charvey-tcb@CCSEMC.com)

**Subject:** Re: HYUNDAI CURITEL INC., FCC ID: PP4PP4TX-230, Assessment NO.: AN05T5237, Notice#1

Dear, Sir

We always appreciate your cooperations on our FCC applications.

According to your request so resend the e- mail.

If you have questions or comments, please do not hesitate to conatct us.

Best Regards,

Kuen- Ho Park - HCT

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

From: "김기수" <[kisookim@hct.co.kr](mailto:kisookim@hct.co.kr)>

To: "Compliance Certification Services" <[charvey-tcb@CCSEMC.com](mailto:charvey-tcb@CCSEMC.com)>  
Cc: "김선희\HCT)" <[alondra@hct.co.kr](mailto:alondra@hct.co.kr)>; "정문진과장\HCT)" <[moon@hctec.co.kr](mailto:moon@hctec.co.kr)>; "박근호대리\HCT)" <[khpark@hct.co.kr](mailto:khpark@hct.co.kr)>; <[charvey-tcb@CCSEMC.com](mailto:charvey-tcb@CCSEMC.com)>  
Sent: Thursday, October 20, 2005 8:26 AM  
Subject: Re: HYUNDAI CURITEL INC., FCC ID: PP4PP4TX-230, Assessment NO.: AN05T5237, Notice#1

> Dear Sir:  
>  
> Thank you for your email.  
>  
> We will review the below matters and inform you soon.  
>  
> Best Regards,  
>  
> 김기수 배상  
> 제품인증사업부 제품인증팀 팀장  
> (주)현대교정인증기술원  
> Mr. KiSoo Kim  
> Senior Manager/Team Leader  
> Product Compliance Team  
> Product Compliance Division  
> HYUNDAI Calibration & Certification Technologies Co., Ltd.(HCT)  
> 경기도 이천시 부발읍 아미리산 136-1(우편번호:467-701)  
> San 136-1, Ami-ri, Bubal-eup, Icheon-si, Kyoungki-do, Korea 467-701  
> TEL : + 82 31 639 8536, 8518  
> FAX : + 82 31 639 8535  
> H.P. : + 82 16 361 7351  
> e-mail: [kisookim@hct.co.kr](mailto:kisookim@hct.co.kr)  
> http:// [www.hct.co.kr](http://www.hct.co.kr)  
>  
> \*\* 오늘도 즐거운 하루를 \*\*  
>  
> ----- Original Message -----  
> From: "Compliance Certification Services" <[charvey-tcb@CCSEMC.com](mailto:charvey-tcb@CCSEMC.com)>  
> To: <[kisookim@hct.co.kr](mailto:kisookim@hct.co.kr)>  
> Cc: <[charvey-tcb@CCSEMC.com](mailto:charvey-tcb@CCSEMC.com)>  
> Sent: Wednesday, October 19, 2005 7:33 PM  
> Subject: HYUNDAI CURITEL INC., FCC ID: PP4PP4TX-230, Assessment NO.: AN05T5237, Notice#1  
>  
>  
>> Ki Soo,  
>>  
>> I have reviewed the above referenced TCB certification application and find that the following items need to be addressed before the review can be completed:  
>>  
>> 1. The block diagram submitted for this device shows Bluetooth Circuitry; however all other documentation indicates that there is no Bluetooth circuit in this device. Please confirm whether there is Bluetooth circuit in this handset and update all appropriate exhibits.  
>>  
>> This device doesn't support the Bluetooth.

they just use the bluetooth chipset. so there is no bluetooth circut.

>> 2. The Operational Description indicates that this device operates in the CDMA2000 1x modes as well as 1xEV-DO modes. Please confirm the CDMA 2000 Radio Configurations (RC's) that are used and tested in this device to ensure that the FCC will consider these modes as 'old technology'.  
>>  
>> They use the below five RC's.

<CDMA 2000 Radio Configurations>

Forward Traffic Channel

Reverse Traffic Channel

Radio Configuration		Radio Configuration
1.	1	1
2.	2	2
3.	3	3
4.	4	3
5.	5	4

>> 3. The Letter of Authorization provided from Hyundai Curitel to HYUNDAI CALIBRATION & CERTIFICATION TECHNOLOGIES CO., LTD. (HCT) must be updated to the format required by CCS TCB. Please contact CCS or me if you need the new format example.

>>

==> Please send me the new format example.

>> Best regards,

>>

>> Chris Harvey

>> [charvey-tcb@ccsemc.com](mailto:charvey-tcb@ccsemc.com)

>>

>> 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.

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