

Chris Harvey

From: SUN-HEE KIM (HCT) [alondra@hct.co.kr]
Sent: Monday, April 24, 2006 8:46 AM
To: 'Scott Wang'; 'MIKE KUO (CCSEMC)'; Chris Harvey
Cc: 김기수CJ; 'MIKE KUO (CCSEMC)'; 'SCOTT WANG(CCS)'; '정문진 (HCT)'; '박근호 (HCT)'; '임지영 (HCT)'; '김영관 (HCT)'; '신국선(HCT)'
Subject: Re: FCC Part 22, 2 Application.(FCC ID: T42ICU-E640: Assessment Number : AN06T5627): INNOMTEK Co.,Ltd. -1 of 2-

Attachments: ATT. Q (DIPOLE VALIDATION PLOTS)-new.pdf; ATT. O (SAR TEST DATA)-new2.pdf

Hello Chris,

Please check the attachment files.

<file name : ATT. O (SAR TEST DATA)-new2> Page 9,11 of 16
 <file name : ATT. P (SAR TEST SET-UP PHOTO)-new2> Page 5 of 6
 <file name : ATT. Q (DIPOLE VALIDATION PLOTS)-new> Page 5-7 of 7
 <file name : ATT. N (SAR REPORT)_ ICU-E640-new2> Page 12,13,17 of 21
 <file name : ATT. R (PROBE CAL. DATA)-new>
 <file name : ATT. S (DIPOLE CAL. DATA)-new>

HCT upgraded the DASY3 to DASY4 system last week. So we perform the testing with DASY4 system.

!! The deadline date is already passed. Please inform me ASAP !!

Your prompt response would be much appreciated.

Best Regards,

Sun- Hee KIM

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

From: charvey-tcb@ccsemc.com
To: kisookim@hct.co.kr
Cc: charvey-tcb@ccsemc.com ; charveyemc@verizon.net
Sent: Friday, April 21, 2006 7:22 PM
Subject: INNOMTEK Co.,Ltd., FCC ID: T42T42ICU-E640, Assessment NO.: AN06T5627, Notice#2

Dear KiSoo Kim:

I have reviewed the response to Notice#1 and have the following issues that need to be addressed:

1. Please provide a photograph of the USB Port side of Notebook #3 (LG/IBM 99CDTB8) showing the ports and the measurement of the distance to the bottom of the notebook. The photo submitted does not show the ports and no information can be found (on the internet) for the model listed.

==> Please find the attachment file.

2. It appears as though you have selected to test the EVDO in the channel from the CDMA modulation that generated the

highest SAR values. For Notebook #1 the highest SAR was the high channel, so the tested EVDO only in that channel (it was below 0.8W/kg threshold). The same was done for Notebook #3. For Notebook #2, the highest SAR was in the middle channel for CDMA, so the tested EVDO only in that channel, but the measurement was >0.8W/kg. The requirement for testing is to measured the middle channel for each modulation and then tested low and high if that middle channel measured >0.8W/kg. Please provide test data for EVDO in the middle channel for each host configuration, and then the high and low channels if the measurements of the middle channel are above 0.8W/kg (like it is with Notebook #2). Also, per above, please be sure this test is performed using the bottom USB port (closest to the user).

[==> Please find the attachment file.](#)

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

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

From: [Chris Harvey](#)
To: ['SUN-HEE KIM \(HCT\)'](#) ; ['MIKE KUO \(CCSEMC\)'](#) ; ['Scott Wang'](#)
Cc: ['신국선\(HCT\)'](#) ; ['김영관 \(HCT\)'](#) ; ['임지영 \(HCT\)'](#) ; ['박근호 \(HCT\)'](#) ; ['정문진 \(HCT\)'](#) ; ['SCOTT WANG\(CCS\)'](#) ; ['MIKE KUO \(CCSEMC\)'](#)
Sent: Friday, April 21, 2006 7:25 PM
Subject: RE: FCC Part 22, 2 Application.(FCC ID: T42ICU-E640: Assessment Number : AN06T5627): INNOMTEK Co.,Ltd.

Sun-Hee Kim, I have just sent the attached notice to KiSoo Kim and wanted to be sure you got a copy of this notice.

Please contact me if you have any questions.

Best regards,

Chris Harvey
 Charvey-tcb@ccsemc.com

From: SUN-HEE KIM (HCT) [mailto:alondra@hct.co.kr]
Sent: Wednesday, April 19, 2006 9:09 PM
To: Chris Harvey; 'Chris Harvey (CCS)'; 'MIKE KUO (CCSEMC)'; 'Scott Wang'
Cc: 신국선\HCT\; 김영관 (HCT); 임지영 (HCT); 박근호 (HCT); 정문진 (HCT); SCOTT WANG(CCS); MIKE KUO (CCSEMC)
Subject: Re: FCC Part 22, 2 Application.(FCC ID: T42ICU-E640: Assessment Number : AN06T5627): INNOMTEK Co.,Ltd. -2 of 2-

Hello Chris,

I sent the email last friday. Please find the following.

Your prompt response would be much appreciated.

Thank you.

Best Regards,

Sun- Hee KIM

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

From: [Chris Harvey](#)

To: 'Chris Harvey' ; '박근호' ; 'Chris Harvey (CCS)' ; 'MIKE KUO (CCSEMC)' ; 'Scott Wang'

Cc: '신국선(HCT)' ; '김기수 차장 (미국지사)' ; '임지영 (HCT)' ; '정문진 과장(HCT)' ; '김영관 (HCT)' ; '김기수 (HCT)' ; 'SUN-HEE KIM (HCT)'

Sent: Thursday, April 20, 2006 6:31 AM

Subject: RE: FCC Part 22, 2 Application.(FCC ID: T42ICU-E640: Assessment Number : AN06T5627): INNOMTEK Co.,Ltd.

Dear KH Park, I have not heard back from you. Did you receive the –mail request attached?

Best regards,

Chris Harvey

charvey-tcb@ccsemc.com

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

From: [SUN-HEE KIM \(HCT\)](#)

To: [Chris Harvey \(CCS\)](#)

Cc: '신국선(HCT)' ; '김영관 (HCT)' ; '임지영 (HCT)' ; '박근호 (HCT)' ; '정문진 (HCT)' ; 'SCOTT WANG(CCS)' ; 'MIKE KUO (CCSEMC)'

Sent: Friday, April 14, 2006 6:22 PM

Subject: Re: FCC Part 22, 2 Application.(FCC ID: T42ICU-E640: Assessment Number : AN06T5627): INNOMTEK Co.,Ltd. -1 of 2-

Hello Chris,

Thank you for your email.

Please refer to my below comment and attachment files.

Your prompt response would be much appreciated.

Thank you.

Best Regards,

Sun- Hee KIM

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

From: charvey-tcb@ccsemc.com [mailto:charvey-tcb@ccsemc.com]

Sent: Friday, April 07, 2006 11:35 PM

To: kisookim@hct.co.kr

Cc: charvey-tcb@ccsemc.com

Subject: INNOMTEK Co.,Ltd., FCC ID: T42T42ICU-E640, Assessment NO.: AN06T5627, Notice#1

Dear KiSoo,

I have reviewed the above referenced TCB application and find that the following items need to be addressed before the review can be completed:

1. The SAR compliance testing was performed in 3 different Notebook PC hosts, all with horizontal USB ports. The USB Dongle EUT was tested only in the right angle, vertical position. If this is the only intended position/use, then the Users Manual must clearly document that this device is only approved for use in Notebook PC's with horizontal USB ports, and the antenna must be positioned in the vertical position.

[==> Please find the attachment file. <file name : ATT. M \(User Manual\)-new> Page 4 of 22](#)

2. If the above use/position is not the only one intended:

a. Since it is possible that the user could position the EUT in the flat, horizontal position, straight away from the USB port, if operation in the horizontal is an intended position, then SAR testing must also be performed in the horizontal position. If it is not an intended position the users' manual must state this.

b. If operation is also intended in notebook PC's that have vertical USB ports, then testing must also be performed in those positions (each side of the USB Dongle facing the bottom of the PC. If this is not an intended position the users' manual must state this.

[==> Please find the attachment file. <file name : ATT. M \(User Manual\)-new>](#)

3. Additionally SAR testing in each of the 3 hosts must be performed using the bottom USB port, closest to the body of the user (it appears as though testing may have been performed in the top USB port). Please verify which USB ports were used for testing with better photographs and re-test where necessary.

[==> Please find the attachment file. <file name : ATT. N \(SAR REPORT\)_ ICU-E640-new>](#)

[SAR testing have been performed using the bottom USB port. \(the worst case\)](#)

4. You have provided side/bystander SAR measurements performed at 1.5cm separation from the EUT. This position is not required by the FCC, but if this data is provided it must be reviewed. Additionally the separation distance used must be justified as a normal-use position. Either remove this testing position from the exhibits (SAR report, SAR Plots, SAR setup photos, manual, etc.) or provide a justification of this position and how the 1.5cm separation is maintained.

[==> Please find the attachment file. <file name : ATT. N \(SAR REPORT\)_ ICU-E640-new, ATT. P \(SAR TEST SET-UP PHOTO\)-new>](#)

5. The FCC Pt. 15 Subpart B test report submitted indicates compliance with the 2001 version of the FCC Rules. Please verify that this device complies with the most recent FCC Rules (published yearly).

[==> Please find the attachment file. <file name : ATT. T \(EMI REPORT\)-new>](#)

6. The SAR test plot exhibit seems to only include the 15mm spacing to the side testing plots and not the bottom of PC plots. This exhibit is titled '1 of 2', but '2 of 2' was not submitted. Please submit the additional SAR test plots.

[==> Please find the attachment file. <file name : ATT. O \(SAR TEST DATA\)-new>](#)

7. The manual has a Body-worn statement that could be confusing to users. This device is a USB dongle, so it does not get worn on the body, and does not have clips or accessories for wearing on the body. It can potentially get used against the body, and gets installed in host Notebook computers. Please revise the Body-worn statements in the manual to reflect that this device is used near the body, remove the reference to accessories (not applicable to this device) and approved only for notebook PC configurations similar to the ones tested. The following note that is likely to be listed on the Grant should be included in the manual:

SAR compliance has been established in the notebook computer configurations with horizontal USB slot configurations as tested in this filing, and can be used in notebook computers with substantially similar physical dimensions, construction, and electrical and RF characteristics. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

==> Please find the attachment file. <file name : ATT. M (User Manual)-new> Page 21 of 22

8. Please submit a revised Letter of Authorization in the CCS format from Innomtek to HCT.

==> Please find the attachment file. <file name : Authorization Letter (ICU-E640)>

9. Please provide a Tune-up procedure exhibit for this device.

==> I'll send you this soon.

10. The FCC has been recently concerned about many of the RC's in CDMA2000 that need to have special attention during compliance testing. Since this device uses CDMA2000 technology, please provide further information about the modes of operation used during the tests (indicate which RC's and SO's are used), the means of controlling the handset to go into those modes and what was done to determine the worst case modes.

==> I'll send you this soon.

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

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

From: Chris Harvey [mailto:charvey@ieee.org]
Sent: Thursday, April 13, 2006 8:37 PM
To: '박근호'; 'Chris Harvey (CCS)'; 'MIKE KUO (CCSEMC)'; 'Scott Wang'
Cc: '신국선(HCT)'; '김기수 차장 (미국지사)'; '임지영 \HCT\'; '정문진 과장(HCT)'; '김영관 (HCT)'; '김기수 (HCT)'; 'SUN-HEE KIM (HCT)'
Subject: RE: FCC Part 22, 2 Application.(FCC ID: T42ICU-E640: Assessment Number : AN06T5627): INNOMTEK Co.,Ltd.

Dear KH Park, the review of the application has been performed and I have requested additional clarifications per the attached e-mail. I am now awaiting a response from HCT.

Please contact me if you have any further questions.

Best regards,

Chris Harvey
 Charvey-tcb@ccsemc.com

From: 박근호 [mailto:khpark@hct.co.kr]
Sent: Thursday, April 13, 2006 2:49 AM

To: Chris Harvey (CCS); MIKE KUO (CCSEMC); Scott Wang
Cc: 신국선(HCT); 김기수 차장 (미국지사); 임지영 \\\(HCT\\); 정문진 과장(HCT); 김영관 (HCT); 김기수 (HCT); SUN-HEE KIM (HCT)
Subject: Re: FCC Part 22, 2 Application.(FCC ID: T42ICU-E640: Assessment Number : AN06T5627): INNOMTEK Co.,Ltd.

Dear Sir,

We always appreciate your kind cooperations on our FCC applications.

We'd like to know current status on the below project ?

Your kindly attentions would be much appreciated.

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

Thanks and Best Regards,

Keun- Ho Park - HCT

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

From: SUN-HEE KIM (HCT)
To: Chris Harvey (CCS) ; MIKE KUO (CCSEMC) ; Scott Wang
Cc: 신국선(HCT) ; 박근호 대리(HCT) ; 김기수 차장 (미국지사) ; 임지영 \\\(HCT\\) ; 정문진 과장(HCT) ; 김영관 (HCT) ; 김기수 (HCT)

Sent: Tuesday, April 04, 2006 5:51 PM

Subject: Re: FCC Part 22, 2 Application.(FCC ID: T42ICU-E640: Assessment Number : AN06T5627): INNOMTEK Co.,Ltd.

Dear Mr. Kuo,

We always appreciate your kind cooperations on our FCC applications.

We'd like to apply for FCC Part 22, 2 Certification as below project ;

FCC ID : T42ICU-E640

- 1) Applicant Name : INNOMTEK Co.,Ltd.
- 2) Application Product : CDMA USB MODEM
- 3) Model Name : ICU-E640
- 4) Applicant ID: T12027
- 5) Application Assessment Number : AN06T5627

6) Application Date: April 4, 2006

There is a problem while uploading the files on CCS web filing system. So we'll upload the rest of documents tomorrow.

Your prompt confirmation on receiving of this application would be much appreciated.

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

Best Regards,

Sun-hee, Kim

=====

Sun-hee Kim

Product Compliance Division
Hyundai Calibration & Certification Co.,Ltd (HCT)
San 136-1, Ami-ri , Bubal-eup, Icheon-si,
Kyounki- do, Korea (467-701)
Tel. : (82-31)639-8565/ 8518
Fax.: (82-31)639-8535
H.P.: 011-9558-9875

E-mail : alondra@hct.co.kr
http :// www.hct.co.kr

=====