
PCTEST-TCB

From: Sung Ryul Kim [bamba2k@estech.co.kr]
Sent: Friday, October 13, 2006 7:16 AM
To: 'PCTEST TCB'
Cc: 'PCTEST - Al Cirwithian'; 'PCTEST - Randy Ortanez'; 'PCTEST - Gregory Czumak'; 'PCTEST - Channy Park'
Subject: RE: Questions Regarding FCC ID: BEJRD6250

Hello Gregory,

Please refer to the below answer for comments.
And check it, please go ahead the issuing for FCC grant.

Thanks.

SUNG RYUL KIM

Estech Co., Ltd.

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International Test Laboratory for EMC /Safety /Telecom

From: PCTEST TCB [mailto:pctesttcb@pctestlab.com]
Sent: Thursday, October 12, 2006 6:38 AM
To: bamba2k@estech.co.kr
Cc: PCTEST - Al Cirwithian; PCTEST - Randy Ortanez; PCTEST - Gregory Czumak; PCTEST - Channy Park
Subject: Questions Regarding FCC ID: BEJRD6250

To: Mr. Sung-Ryul Kim / ESTECH Co., Ltd.

From: Mr. Gregory Czumak / PCTEST TCB

RE: FCC ID: BEJRD6250

Applicant: LG Electronics Inc.

Correspondence Reference Number: BEJ0651

Confirmation Number: 1610090650/0652

Date of Original Email: October 11, 2006

Subject: Request for additional information

In regards to your recent TCB application referenced above, we kindly request that you provide the following additional information.

10/13/2006

1. On May 9, 2006, the FCC released a new policy with respect to testing 3-G phones (e.g., cdma2000, EV-DO, WCDMA, etc.). Included are new procedures for testing EMC, SAR and HAC on cdma2000 phones- please see the attached documents, particularly pages 1/102 – 10/102 of the document “3G-SAR”, dealing with the required RC/SO combinations to be tested for head and body SAR and the required output power measurements, as well as the document “3G Review Guidance” for both EMC and RFX guidance (for instance the specific RC/SO combinations for the various tests are provided, also, please note that internal test codes may not be used- a base station simulator must be used). Please retest Part 22 EMC and SAR in accordance with these procedures, and submit new test reports that address the various requirements of the documents. You may also review some example test reports that use this new procedure, at:

<https://gulfoss2.fcc.gov/prod/oet/cf/eas/reports/GenericSearch.cfm>

Type in the following FCC ID: BEJYX9400, and view the EMC and SAR reports.

Please note that the maximum SAR levels listed in the user's manual may require modification, based on the outcome of the tests. In addition, please be sure to address the points in questions (2) and (4), below.

→ I uploaded the revised test report on your website.

2. Pursuant to FCC policy, you must test the extended battery for SAR in the worst-case configuration determined by the standard battery tests, and submit that data, even if the extended battery results in a lower ERP. → I uploaded the revised user manual. This device uses only standard battery. I confirmed from LG guy for that.
3. If the Attenuator and Dual Direction Coupler, listed in the SAR report, are on a one year calibration cycle, then it appears that they are both past their cal due dates. Please address.
→ They are not one year calibration cycle, two years calibration cycle.
4. What settings (i.e., RBW, VBW) and detector function was used to perform Part 22 spurious radiated emission tests?
→ RBW=VBW = 1MHz, detector mode: Peak mode. I also uploaded the revised test report on website.
5. Please provide the FCC ID of the support equipment used in the Part 15B tests, or else indicate if they have been approved through DoC.
→ They have been approved through DoC.
6. Regarding the Bluetooth transmitter, please address the following requirements from Section 15.247(a)(1):
 - a. Is the list of hopping frequencies pseudo randomly ordered? Yes. Pseudo randomly
 - b. Is each frequency used equally, on average? Yes.
 - c. Is the system receiver input bandwidth approximately equal to the transmitted signal's bandwidth? Yes. Approximately equal to the transmitted signal's bandwidth.
 - d. Does the receiver have the capability of hopping in synchronization with the transmitted signal? Yes.
7. Please address Sections 15.247(g) and (h).
the transmitter be presented with a continuous data (or information) stream, and the number of hopping channels is total 79 channels.
8. Please submit a Technical Description of the spread spectrum (Bluetooth) transmitter.
→ I uploaded it on website.
9. Please verify that the statements required by Sections 15.21 and 15.105(b) will be included in the user's

manual prior to shipment of the EUT.
→ I uploaded the revised user manual

The items indicated above must be submitted before processing can continue on the above referenced application.

Sincerely,

Gregory Czumak
Quality Manager
Senior Certification Engineer

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