

Mia Kang

From: 김성열 [mailto:bamba2k@estech.co.kr]
Sent: Tuesday, January 02, 2007 4:16 AM
To: pctesttcb@pctestlab.com
Cc: hanyhyo@lge.com; channy@pctestlab.com
Subject: 답장:Fw: Questions Regarding FCC ID: BEJKE970

Hello Gregory,

Please refer to the below answer for your question.
If you have any question, let me know.

Thanks.

Sung Ryul Kim.

From: PCTEST TCB [mailto:pctesttcb@pctestlab.com]
Sent: Thursday, December 28, 2006 7:50 AM
To: bamba2k@estech.co.kr
Cc: PCTEST - Channy Park; PCTEST - Gregory Czumak; PCTEST - Mia Kang; PCTEST - Randy Ortanez; PCTEST - Steve Liu
Subject: Questions Regarding FCC ID: BEJKE970
Importance: High

To: Mr. Sung-Ryul Kim / ESTECH Co., Ltd.
From: Mr. Gregory Czumak / PCTEST TCB
RE: FCC ID: BEJKE970
Applicant: LG Electronics Co., Ltd.
Correspondence Reference Number: BEJ0828
Confirmation Number: 12200829-30
Date of Original Email: December 27, 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.

1. Please address the following 4 requirements for frequency hopping spread spectrum transmitters (Bluetooth) from Section 15.247(a)(1):
 - a. Is the hopping sequence pseudorandom? [It is pseudorandom.](#)
 - b. Are all channels used equally on average? [Yes.](#)
 - c. Does the receiver input bandwidth approximately equal the transmit bandwidth? [Yes. Approximately equal to the transmitted signal's bandwidth.](#)
 - d. Does the receiver hop in sequence with the transmit signal? [Yes.](#)
2. Is the Bluetooth module capable of EDR mode? If so, additional data plots (20 dBc bandwidth and bandedge) must be submitted in this mode.
[-> The bluetooth module doesn't support EDR mode.](#)
3. Please provide the FCC ID of the support equipment used in the Part 15B testing, or indicate if they were approved under DoC.
[-> They were approved through DoC.](#)
4. Please submit EMC test set up photos for the Part 24, Part 15B and Part 15C testing.
[-> I uploaded the revised test setup photos on website. Please find it on your web.](#)
5. The SAR probe cal report lists the 1900 MHz body conversion factor as 4.94, but the body SAR plots list 4.64. Please address this discrepancy, and submit recalculated body SAR levels, if necessary.
[-> Body ConvF for 1900 MHz is 4.94. Please find the revised test report.](#)
6. Page 23/55 of the SAR Report indicates that the highest body SAR level was obtained with the Bluetooth on, but the corresponding SAR plots indicate that the Bluetooth was enabled on a different channel (not the highest SAR level). Please address.
[-> Please find the revised test report.](#)
7. Please submit the z-axis plots for the SAR tests, as required.
[-> We did re-test only for the channel shown highest SAR\(Validation was also done again\). Please find the revised SAR test report.](#)
8. Please confirm that the following is a typo: p.20/55 of the SAR Report, the measured 1900 MHz muscle dielectric constant is listed as 53.99, while the SAR plots list 54.99.
[-> 1900 MHz muscle dielectric constant for Validation is 53.99. Muscle dielectric constant for Ch661 \(1880MHz\) is 54.99, so those are different.](#)
[Please find the revised test report.](#)

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

Sincerely,

Gregory Czumak
 Quality Manager
 Senior Certification Engineer

PCTEST Engineering Laboratory, Inc.
 6660-B Dobbin Road
 Columbia, MD 21045

410-290-6652
410-290-6654 (Fax)
gregory@pctestlab.com

This communication and its attachments contain information from PCTEST Engineering Laboratory, Inc., and is intended for the exclusive use of the recipient (s) named above. It may contain information that is confidential and/or legally privileged. Any unauthorized use that may compromise that confidentiality via distribution or disclosure is prohibited. Please notify the sender immediately if you receive this communication in error, and delete it from your computer system. Usage of PCTEST email addresses for non-business related activities is strictly prohibited. No warranty is made that the e-mail or attachment(s) are free from computer virus or other defect. Thank you.