

September 6, 2000

Federal Communications Commission
Equipment Approval Services
7435 Oakland Mills Road
Columbia, MD 21046
Attn: Mr. Joe Dichoso

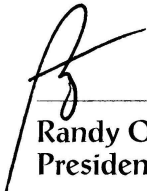
SUBJECT: SAMSUNG ELECTRONICS CO., LTD.
FCC ID: A3LSPHM100
731 Confirmation No.: EA97955
Correspondence Reference No.: 15924
Request for Tech. Info.: 09/05/2000

Dear Joe:

Transmitted herewith, on behalf of Samsung Electronics Co., Ltd. is an amendment provided in response to the request for technical information dated September 5, 2000.

1. The following is a description of the substitution method used to obtain accurate EIRP readings of the EUT at the carrier fundamental frequency:
 - A. Above 1Ghz, radiated measurements are made at 3 meters using a calibrated horn antenna, a RF data cable and a spectrum analyzer.
 - B. A maximum signal measurement is made by raising and lowering the antenna and rotating the EUT 360 degrees. Vertical and Horizontal Polarizing data is recorded.
 - C. A signal generator, a RF amplifier, and a horn antenna with a calibrated gain rated in dBi are then substituted for the EUT. The gain of the substituted horn antenna is added to the substituted value.
 - D. For example at 1880 MHz measurement of the EUT produced a reading of -22.331dBm on the spectrum analyzer that level is then recorded. Next the EUT is removed and the horn antenna is put in its place driven by the signal generator. The signal generator is adjusted until the -22.331dBm reading is obtained. The horn antenna is removed and a reading is taken of the level that was at its terminals. The gain of the horn over isotropic is added and this level is recorded. The signal generator level at the terminals was 18.720dBm and the gain of the horn is 6.200dBi then the EIRP would be 24.920dBm.

We trust this information is sufficient to issue the grant as soon as possible. If you have any further inquiries, please do not hesitate to contact me.



Randy Ortanez
President & Chief Engineer

cc: Samsung Electronics Co., Ltd.