



American Telecommunications Certification Body Inc.
6731 Whittier Ave, McLean, VA 22101

July 1, 2002

RE: Nokia Mobile Phones, Inc.

FCC ID: GMLNPD-1AW

After a review of the submitted information, I have a few comments on the above referenced Application.

- 1) Please provide a FRN Number for Nokia Mobile Phones, Inc. This is now required for all Grantees - (reference MD Docket No. 00-205). To obtain an FRN online, visit the FCC's Web site at www.fcc.gov and click the Commission Registration System (CORES) link. For further assistance, please either refer to the FAQ at this same link; contact the CORES helpdesk at CORES@fcc.gov; or call the CORES helpdesk toll-free number: 1-877-480-3201.
- 2) One of the internal photographs showing the main board with the shields removed still shows one section without the shield removed. Please provide a photograph with all shields removed?

SAR Report:

- 3) The SAR report should state:
 - a) if the test device is production unit or identical prototype (47 CFR §2.908)
 - b) testing was performed for Occupational/Controlled OR General Population/Uncontrolled limits
 - c) identification of whether device is considered mobile or portable category
- 4) The system center frequency (836 MHz & 1880 MHz) was not used to verify the SAR system performance, please comment.
- 5) The FCC likes to be able to confirm that the 15 cm liquid depth was present by supporting photographs or Z-axis data. This supplemental information was not provided for the actual test. Please confirm that the liquid depth was at least 15 cm, and if available please provide the photograph or Z-axis data.
- 6) The SAR report should include a brief description of the operating modes and operating frequency ranges and maximum device rating for each operating mode and frequency range tested (i.e. section 3.2 of the report).
- 7) It can not be determined from the SAR report what the Maximum output power (conducted) or SAR drift measured at same position in liquid was before and after each SAR test? This should be provided for each scan shown.
- 8) The SAR report does not state that the device complies with FCC Part 2.1093 & FCC's OET bulletin 65, Supplement C. Please add this to the statement of conformity portion of the report.
- 9) Calibration and Validation procedures should be performed for each day of testing. The test data provided shows testing performed on 4/15/02, but there is not any calibration information for this day.
- 10) Tissue dielectric properties were not listed in section 4.9/4.10 for all days of testing. Also, detailed test data versus section 4.9/4.10 of the test report are not necessarily consistent. Please explain.
- 11) The target and measured peak and 1-g SAR for the system verification accuracy should agree within 10%, but occasionally exceeded this for the Head at 1800 MHz. Please explain.
- 12) It appears that low, mid, and high channels were tested, but all plots provided do not appear to be labeled with a low, middle or high channels. Please explain which frequencies were measured for what channels.
- 13) For course scans, what was the probe tip distance to phantom inner surface?
- 14) It is preferred that all SAR plots are included to ensure that all "hot spots" were entirely captured. Please provide an engineering justification for the plots provided vs. the plots not provided.

- 15) The 3rd SAR scan plot provided contains a note "Pwr lowered". Please explain the purpose of this note.
- 16) Please provide an explanation as to specify which peak SAR location(s) were used to evaluate max 1-g SAR(s).
- 17) What is the interpolation resolutions for the "zoom scans".
- 18) Please provide a description of the description of averaging (integration) procedures to get 1-g SAR from final interpolated grid?
- 19) Please provide a z-axis scan at the max SAR location(s)?



Timothy R. Johnson
Examining Engineer

[mailto: tjohnson@AmericanTCB.com](mailto:tjohnson@AmericanTCB.com)

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. 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 sender.