



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

September 3, 2002

RE: Nokia Corporation

FCC ID: PYANHL-4

After a review of the submitted information, I have a few comments on the above referenced Application. Please Note that SAR issues will be sent under a separate letter.

- 1) Please provide close up photographs of the top and bottom of the main PCB board w/o the shields installed.
- 2) Pages (6 of 22 & 6 of 74) of the EMC reports states that this is a Triband GSM phone (900/1800/1900), while only one band appears to have been tested. The tune up procedure also mentions procedures for various bands. Please comment.
- 3) Please upload an exhibit for the operational description. Note that the theory of operation/description of circuitry referenced in the confidentiality letter does not appear to have been provided.
- 4) This project was originally canceled (or put on hold) on July 11, 2002 because of possible modifications/changes that could affect compliance. However, we have only received one schematic on July 9, 2002. Please confirm if this schematic is correct, or if a new one should be provided.
- 5) A complete EMC report was provided for a model NHL-4 and a partial second EMC report was provided for a model NHL-4U. Please explain the difference between these models.
- 6) Please upload test configuration photographs as a separate exhibit.
- 7) Radiated Spurious Emissions appear to have been performed by calculating a Field Strength from the received power. The FCC no longer accepts calculated "radiated" power output measurements for these type of transmitters. These must be performed using the substitution method specified by EIA/TIA 603 section 2.2.17.
- 8) Please provide a plot of the occupied bandwidth.
- 9) Please provide information to show compliance with 2.1047.
- 10) There is no emission designator description provided with this application as required by CFR 1.1033(c)(4). Please see 2.202 for examples and instructions. Please provide sample calculations for the necessary bandwidth.

Timothy R. Johnson
Examining Engineer

Direct Phone: 404-414-8071
[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.