



NOKIA MOBILE PHONES
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December 8, 2000

Federal Communications Commission
Authorization & Evaluation Division,
7435 Oakland Mills Road
Columbia, MD. 21046

Attention: Kwok Chan, Steve Dayhoff

FCC ID: LJPNSW-5NY (EA99127) CORRESPONDENCE 17075.

Here is our response to your correspondence 17075 concerning LJPNSW-5NY.

Sincerely,
Kare Oksanen
Engineering Manager, Type Approvals
Nokia Mobile Phones

1. Radiated output results were calculated as dBm, rounded to have one decimal and furthermore converted into Watts. Without rounding the radiated output results are:

328mW (ERP) in AMPS mode,
770mW (ERP) in TDMA-Cellular mode and
440mW (EIRP) in TDMA-PCS mode.

The test lab will upload a new test report page containing the corrected results as a new exhibit.

2. Updated body-worn statements in User Guide are included in this response as Attachment A.
3. Design and materials of carrying case CSL-5 were changed during the FCC approval process. Please disregard all previous SAR results concerning CSL-5 since the prototype used in testing is fully replaced with the new version. New test report for CSL-5 is uploaded as a new exhibit. I apologize for any inconvenience this may cause.

We have verified that different battery options do not have effect on SAR. In belt-clip configuration separation distance will remain the same regardless of used battery option. In carrying case configuration CSL-5 is designed in a way that there is hole in the lid available for antenna only when phone is positioned display facing the body. During measurement holder pressed the phone against carrying case from beneath and thus separation distance was minimized in all battery options.

4. We have recognized your concern and studied already for several months possibilities to change simulating liquids to match better the requirements of the FCC even though especially the content of muscle simulating liquid has been particularly demanding to the equipment used in SAR testing. At the same time we have carried out tests to find a proper solution, we have been waiting for OET and SCC34 committee to finalize their recommendation to new liquid recipes to prevent continuous probe calibrations. If the FCC considers the current SCC34 proposals to be adequate to be used in SAR measurements, we start process to update our current SAR measurement system to fulfill the current FCC requirements with as short transition time as possible.
5. As soon as we have finished the issue described in the previous question, we will adopt proposed SCC34 test configurations simultaneously.

Appendix A:

Radio Frequency (RF) Signals -section in LJPNSW-5NY User Guide

Reference information

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your wireless phone may be the only means of communication at the scene of an accident - do not cut off the call until given permission to do so.

• Radio Frequency (RF) Signals

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.* Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

**In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.*

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is ____ W/g. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID LJP NSW-5NY.

For body worn operation, to maintain compliance with FCC RF exposure guidelines, use only Nokia approved accessories. When carrying the phone while it is on, attach the phone to the specific belt-clip or place the phone in the specific Nokia carrying cases that have been tested for compliance.

Use of non-Nokia-approved accessories may violate FCC RF exposure guidelines and should be avoided.

• Care and Maintenance

- Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfill any warranty obligations and allow you to enjoy this product for many years. When using your phone, battery, charger, OR any accessory:
- Keep it and all its parts and accessories out of small children's reach.
- Keep it dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use or store it in dusty, dirty areas as its moving parts can be damaged.