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Statements of Compatibility with FCC Rules – part 15.121
FCC ID: NVJAR5001D

This scanning receiver cannot be used or modified to receive cellular radiotelephony frequencies. This is achieved by the key features described in detailed statements below.

1. Statement assessing the vulnerability of AOR receiver model AR5001D to possible modifications and describing design steps taken to make the tuning, control and filtering circuitry inaccessible (15.121 (a)):

The receiver portion of the equipment under this application scans the frequency bands 40 kHz to 823.990 MHz, 849.010 to 868.990 MHz and 894.010 to 3150 MHz.

The receiver circuitry cannot be altered to enable it to scan the cellular bands by means of clipping the leads of components, installing a diode and/or jumper wire, or by any other such simple modification. Nor can the receiver be made to scan the cellular bands by replacing a plug-in semiconductor chip, because no such plug-in chips are utilized anywhere in the receiver. The semiconductor chips that are utilized in the tuning function of the equipment cannot be reprogrammed.

The tuning, control and filtering circuitry of the receiver is controlled by a microprocessor firmware, which is unalterable by the user (and it is also unalterable by the manufacturer's own support and distribution staff, and their resellers).

Any attempt to modify the circuitry cannot therefore result in achieving access to the cellular bands, but is likely to make the receiver inoperable.

2. Statement relating to cellular band rejection (15.121 (b)):

The FCC requirement stipulates that scanning receivers shall reject any signals from the cellular radiotelephone service frequency bands that are 38dB or lower (at 12 dB SINAD).

The construction of the equipment under this application is such that image rejection is typically 50 dB, therefore with a more than sufficient margin for adequate suppression of any image frequencies related to the cellular radiotelephone signals.

This aspect was tested by the receiver placed in a scanning mode, and a full scan was performed for each of the following 6 test frequencies: 824, 836, 849, 869, 880, 894 MHz. There were no spurious responses detected within the entire frequency range of the receiver with a rejection ratio more than 38 dB. In view of the above, the equipment complies with parts 15.121 of the FCC rules.