

**MOTOROLA**

Date: 27th December 2002.

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

**Re: Application for a Class II Permissive Change request to certificated transceiver with
FCC ID: AZ489FT5808.**

Gentlemen:

Motorola Inc., 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322, herein submits its' request for a Permissive Change Class II, which is marketed in the United States and elsewhere as the iDEN model i60c (model H59UAH6RR5AN), i90c (model H41UAH6RR1AN, and i95cl (model H57UAN6RR7AN).

A. DESCRIPTION OF PRODUCT CHANGES:

The i60c product utilizes a cost-reduced version of the alternate U500 (single-ended power amplifier) on the RF board of the original filing product (the i90c and i95cl U500 remains the same as before). For all three models, the main board containing the RF circuitry uses a new version of U600 (receiver/frequency synthesizer IC). The upgraded version of U600 makes use of an internal DAC to compensate for temperature-induced drift of the reference oscillator. Even though the previous version of U600 also had an internal DAC circuit for this function, it proved to be nonfunctional thus requiring an external DAC circuit for reference oscillator control. The new U600 device is pin to pin compatible with its predecessor. Additionally, an enhanced microprocessor U801 has been added to realize cost savings and performance improvements. The part is pin-to-pin compatible with the previous part.

To support the digital circuitry changes, testing was conducted to uphold the existing Declaration of Conformity (DoC) pursuant to CFR 47 Part 15 which was previously prepared for the data modem functionality of all three derivative composite voice/data products.

B. PERFORMANCE DIFFERENCES:

Performance data on radiated spurious emissions was obtained in accordance with 47 CFR 2.1053 and 2.1057. Revised Exhibit 6.4 (Figures 6-17 – 6-18) attached contains data showing that the radiated spurious emissions are within FCC limits for all three models. However, for the i60c and i95cl models, there was an occurrence where the spurious emissions exceeded those in the original filing by an amount greater than the measurement uncertainty. There was no degradation of radiated performance in the i90c model. All radiated spurious emission performance measurements were performed at the Motorola Boynton Beach EMC Compliance Laboratory, FCC Registration No. 100000.

Additionally, the conducted spurious emissions pursuant to 47 CFR 2.1053 and 2.1057 were found to have degraded slightly outside the measurement uncertainty for all three models but remained within the limits of a Permissive Change Class II. Revised Exhibit 6.6 (Figures 6.25a-f) is included showing that all conducted spurious emissions are within FCC limits.

The SAR performance of this derivative radio product was verified by the A2LA-certified Motorola Plantation EME Laboratory and compared with the measurements filed with the Federal Communications Commission for FCC ID: AZ489FT5808. Within the measurement uncertainty limits, SAR values did not exceed the values on file. We affirm that this radio product continues to comply with the 47 CFR 2.1093 requirements for the uncontrolled environment.

C. CONCLUSION:

Since the radiated and conducted spurious emissions exceed those originally reported by an amount greater than that attributable to measurement uncertainty, this change does not meet the requirements for a Permissive Change Class I. However, the performance data conforms to FCC limits, thus meeting the requirements for a Permissive Change Class II.

Please contact me at (954) 723-5793 if you require any additional information.

Sincerely,
/s/Mike Ramnath
FCC Liaison
Email address: mike.ramnath@motorola.com

Attachments:
Exhibit 2 (Revised)
Exhibit 6.4 (Revised)
Exhibit 6.6 (Revised)
Exhibit 9 (Revised)
Exhibit 10 (Revised)