

Lucent Technologies
Bell Labs Innovations



Lucent Technologies Inc.
67 Whippany Road
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June 16, 1999

Office of Engineering and Technology
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, Maryland 21046

Re: Application for Certification of FCC ID: AS5CMP-33

Dear Examiner:

In accordance with Parts 2 and 22 of the Commission's Rules and Regulations, we are submitting herewith statements and supporting data to show compliance with the requirements of the Commission for certification of the Lucent Technologies FLEXENT™ Cellular TDMA Multi Carrier Linear Amplifier (CMCLA), Part Number 44WA29, under FCC ID: AS5CMP-33, as a base station power amplifier. The CMCLA is designed to perform linear amplification of from 1 to 10 TDMA carriers (30 kHz bandwidth) at a maximum rated power level 1.2 Watts (+30.8 dBm) per carrier and a total composite power level for 10 carriers of 12 Watts (+40.8 dBm), at the transmit antenna terminal. The CMCLA is also designed to operate linearly over the entire Cellular Frequency Band: 869.04 – 893.97 MHz. The gain of the amplifier is adjustable from 42 dB to 38 dB, in 0.5 dB steps, by external software control. It is designed to be installed and operate in the FLEXENT™ Cellular TDMA Microcell J41698B-1 base station equipment frame, in combination with the Cellular TDMA Dual Radio Module (CDRM), Part No. 44WR54, under FCC ID: AS5CMP-32 as a separate application for certification, and in combination with simplex transmit and receive bandpass filters for Cellular A-Band and Cellular B-Band.

The data summarized below is in the form presently used by the Commission's Radio Equipment List, Equipment Acceptable for Licensing.

Manufacturer	Lucent Technologies, Columbus, Ohio
Equipment Identification	AS5CMP-33
Rules Part Number	Part 22, Subpart H – Cellular Radiotelephone Service
Frequency Range	Transmit 869.04 – 893.97 MHz
Output Power	1.2 Watts (+30.8 dBm) per carrier maximum 12.0 Watts (+40.8 dBm) total composite for 10 carriers.
Frequency Tolerance	± 1.5 ppm
Emission Designator	40K0GXW

The Cellular-MCLA, under AS5CMP-33, was designed in accordance with the guidelines of TIA/EIA/IS-136.2-A (October 1996): TDMA Cellular/PCS–Radio Interface–Mobile Station–Base Station Compatibility – Traffic Channels and FSK Control Channel ; and of TIA/EIA/IS-138-A (July 1996): TDMA Cellular/PCS – Radio Interface – Minimum Performance Standards for Base Stations.

Attached are the FCC Form 731 (Application for Equipment Authorization – Radio Frequency Devices) and the required measurement data and exhibits. These exhibits contain the technical requirements, and the required statements and documents for equipment authorization. The technical contact at Lucent Technologies will comply with any request for additional information should the need arise.

Lucent Technologies has requested that the following exhibits be **considered confidential**:

Exhibit 4 FLEXENT™ TDMA Microcell: Operation, Administration, and Maintenance Manual

Exhibit 6 Schematic Diagrams

The letter of request is attached and the required fees are submitted as required for electronic filing.

Sincerely,

R. J. Pillmeier
Technical Manager
Certification Test Group

Att.
Transmitter Certification Report