

**Federal Communications Commission  
Office of Engineering and Technology  
Equipment Authorization Division  
Application Processing Branch  
7435 Oakland Mills Road  
Columbia, MD 21046**

Lucent Technologies Inc.  
101 Crawfords Corner Road  
Holmdel, NJ 07733-3030

February 5, 2001

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

Dear Examiner:

In accordance with Parts 2 and 24 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 Inc., Power Amplifier (PA), henceforth PA as FCC ID: **AS5CMP-42**. The PA is an Individual Carrier Linear Amplifier (ICLA). This PA shall be used in Lucent Technologies Inc. FLEXENT® Land Station Personal Communication Service (PCS) system using Code Division Multiple Access (CDMA) technology, for use in Domestic Public PCS Telecommunication Service. The present PCS system will use single PA installed in a Radio Frequency Unit (RFU) cabinet. Each PA is designed to provide 24 Watts at the amplifier port connection (J4).

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

<b>Manufacturer</b>	<b>Lucent Technologies Inc.</b>
<b>Product</b>	<b>Power Amplifier</b>
<b>Equipment Identification</b>	<b>AS5CMP-42</b>
<b>Rules Part Number</b>	<b>24(E)</b>
<b>Frequency Range</b>	<b>1930 – 1990 MHz</b>
<b>Output Power</b>	<b>.0002 to 24 Watts (-8 dBm to 43.8 dBm) Varied by Software</b>
<b>Frequency Tolerance</b>	<b>+/- 0.05 ppm</b>
<b>Emission Designator</b>	<b>1M23G9W</b>

The FLEXENT PCS Radio Frequency Unit (RFU) Cabinet uses the PA. The PA is designed to the limitations specified in Part 24 subpart E. Whenever possible, the test procedures defined in CFR 47 Parts 2 and 24(E) were followed. Some of the characteristics cannot be tested using the requirements in CFR 47, for those characteristics, TIA/EIA-97-C was used as evaluation criteria in this application. The PA has a maximum RF power output of 43.8 dBm and the power level for this application also is 43.8 dBm. In FLEXENT PCS Radio Frequency Unit (RFU) Cabinet the PA gets input RF signal from a Predistortion CDMA Baseband Radio (PCBR) (FCC ID: AS5CMP-41) and PA. output power is filtered by a transmit filter for specific PCS bands. The PCBR is being co-filed with the PA. The typical output level necessary for the PCBR for maximum output from the Power Amplifier is 8.5 dBm. The actual power level delivered from the PCBR to Power Amplifier is under software control. The software control allows PA output level to within  $\pm 0.1$  dB across the PCS band.

Filed herewith is FCC Form 731 (Application for Equipment Authorization – Radio Frequency Devices) and the required exhibits. These exhibits contain the technical data, and the required statements and documents for equipment certification. The Global Product Compliance Laboratory, of Lucent Technologies Inc., Bell Laboratories, will comply with any request for additional information should the need arise.

Sincerely,

Dheena Moongilan  
Distinguished Member of Technical Staff  
Global Product Compliance Laboratory  
phone: (732) 332-6003  
email: moongilan@lucent.com

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Global Product Compliance Laboratory  
101 Crawfords Corner Road  
Holmdel, NJ 07733-3030

February 5, 2001

**Subject: Confidential Treatment for User's Manual, Internal Photos and Schematic -**  
**FCC ID: AS5CMP-42**

**Dear Examiner:**

The Flexent PCS Radio Frequency Unit (RFU) Cabinet containing FCC ID AS5CMP-41, and PA FCC ID AS5CMP-42 will not be sold to the general public, but restricted to network operators. The 'User's Manual' is provided to the network operators under a non-disclosure agreement. The Lucent Technologies holds the proprietary rights of equipment construction. The general public does not have access to either User's Manual, or Internal Construction of Flexent RFU. The schematics and block diagrams contain Lucent Technologies Proprietary information. Therefore I would like to request you to treat the following as confidential.

- (1) User's Manual
- (2) Internal photos
- (3) Schematics, Circuit descriptions and Block Diagrams

Thanks.

Sincerely,

Dheena Moongilan  
Distinguished Member of Technical Staff  
Bldg. 11B, Room 184