



Nemko

Test Report: 2W06576

Applicant: Coverage Solutions Corp.
2901 W. Busch Blvd.
Suite 900
Tampa, FL 33618, USA

Equipment Under Test: BDA-CELLAB-2/2W-60-BX
(EUT)

FCC ID: QQRBCCELLAB2W60BX

In Accordance With: **FCC Part 22, Subpart H**

Tested By: Nemko Canada Inc.
303 River Road, R.R. 5
Ottawa, Ontario K1V 1H2

Authorized By: Glen Westwell, Wireless Technologist

Date: 19 December 2002

Total Number of Pages: 43

Table of Contents

Section 1. Summary of Test Results.....	3
Section 2. General Equipment Specification	5
Section 3. RF Power Output.....	6
Section 4. Occupied Bandwidth.....	11
Section 5. Spurious Emissions at Antenna Terminals	22
Section 6. Field Strength of Spurious Emissions	37
Section 7. Block Diagrams.....	41
Section 8. Test Equipment List	43

Section 1. Summary of Test Results**General****All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 22, Subpart H.

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.



TESTED BY: _____
Kevin Carr, EMC Specialist

DATE: 19 December 2002

Nemko Canada Inc., a testing laboratory, is accredited by the Standards Council of Canada. The tests included in this report are within the scope of this accreditation. The results apply only to the samples tested.

Nemko Canada Inc. authorizes the above named company to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko Canada Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

This report applies only to the items tested.

Nemko Canada Inc.

PROJECT NO.:2W06567

EQUIPMENT: BDA-CELLAB-2/2W-60-BX

Summary Of Test Data

Name Of Test	Para. No.	Result
RF Power Output	2.1046	Complied
Audio Frequency Response	2.1047	N/A
Audio Low-Pass Filter Response	2.1047	N/A
Modulation Limiting	2.1047	N/A
Occupied Bandwidth	2.1049	Complied
Spurious Emissions at Antenna Terminals	2.1051	Complied
Field Strength of Spurious Emissions	2.1053	Complied
Frequency Stability	2.1055	N/A
Transient Frequency Behavior	—	N/A

All Tests were conducted with the AGC circuitry enabled, and verified with AGC disabled. The EUT is a f1-f1 amplifier, as such frequency stability was not performed. The EUT contains no audio limiting circuitry.

Indoor Temperature: 23°C
 Humidity: 18%

Outdoor Temperature: 05°C
 Humidity: 49%

Section 2. General Equipment Specification

Manufacturer:	Coverage Solutions Corp.	
Model No./Serial No:		
Bi-Directional Amplifier	BDA-CELLAB-2/2W-60-BX,	02101039
Uplink Filter	CBB835/10MK-S1, 02121043	
Downlink Filter	CBB880/10MK-S1, 02101039	
Date Received In Laboratory:	13 Dec. 2002	
Nemko Identification No.:	1	
Supply Voltage:	120VAC, 60Hz	
Frequency Range:	Downlink: 869-880MHz/890-891.5MHz Uplink: 824-835MHz/845-846.5MHz	
RF Output Power (Rated):	28.0 dBm	
RF Output Power (Measured):	Downlink, CDMA: 25.3 dBm Downlink, TDMA: 27.7 dBm Downlink, AMPS: 25.7 dBm Uplink, CDMA: 25.6 dBm Uplink, TDMA: 27.5 dBm Uplink, AMPS: 25.3 dBm	
Emission Designator:	CDMA, DXW TDMA, F9W AMPS, F8W	

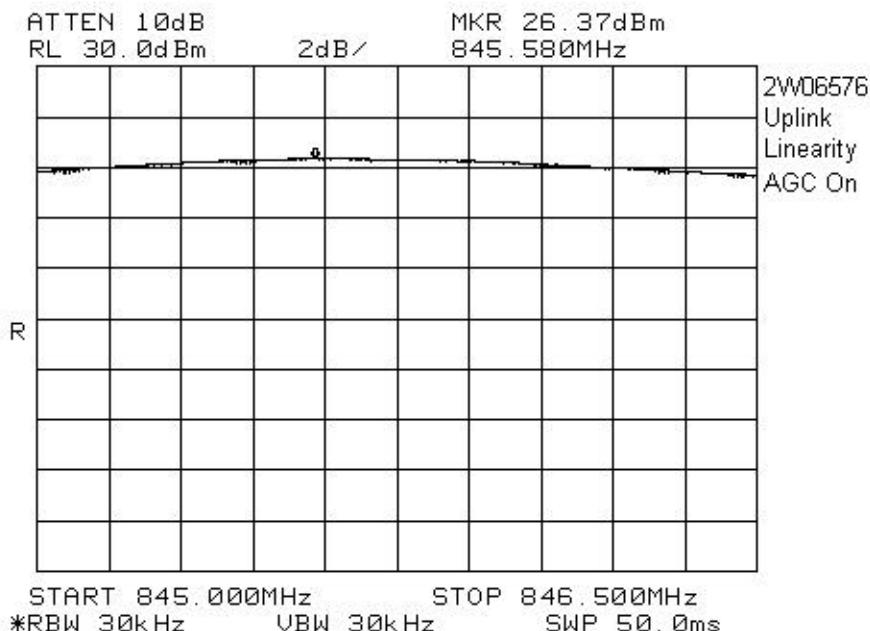
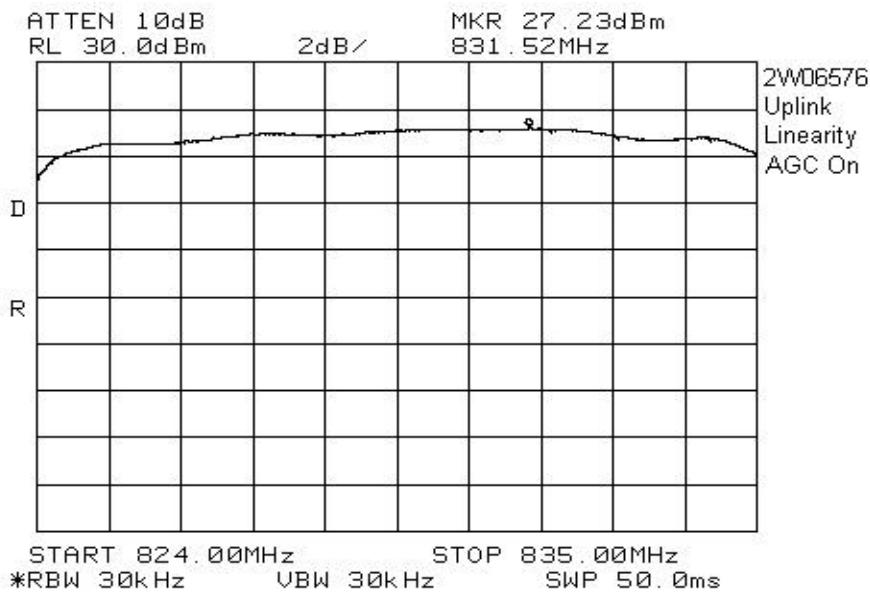
Section 3. RF Power Output**Para. No.: 2.1046**

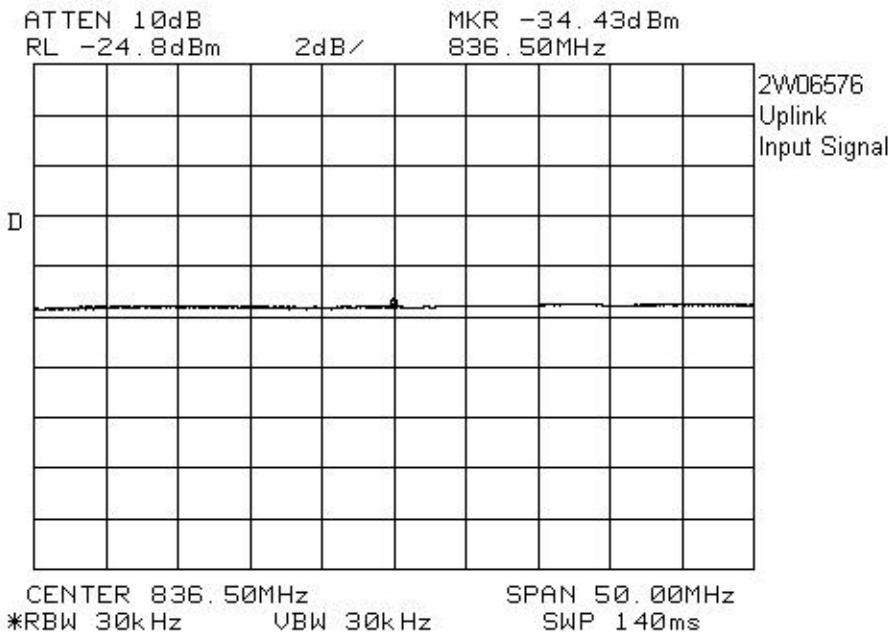
Test Performed By: Kevin Carr	Date of Test: 13 Dec. 2002
--------------------------------------	-----------------------------------

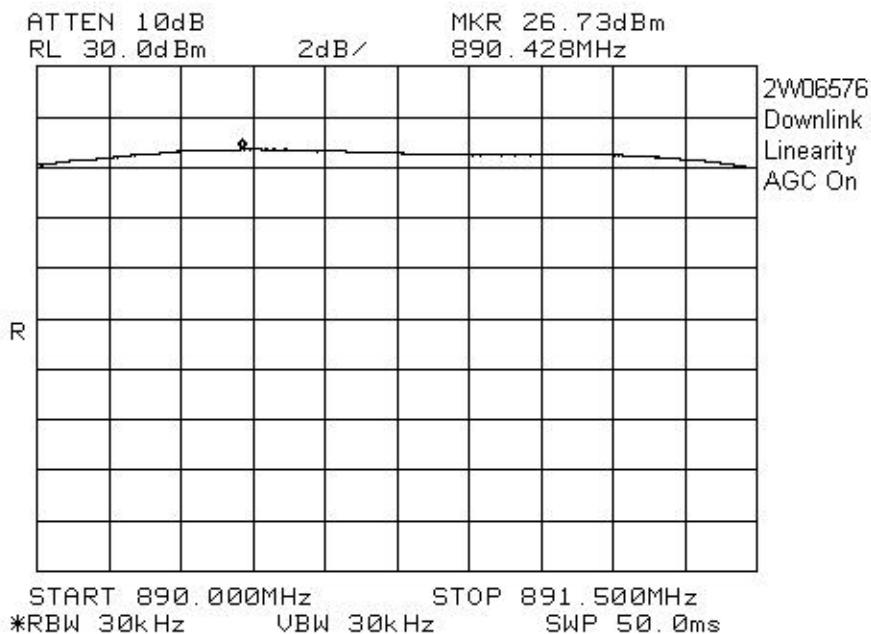
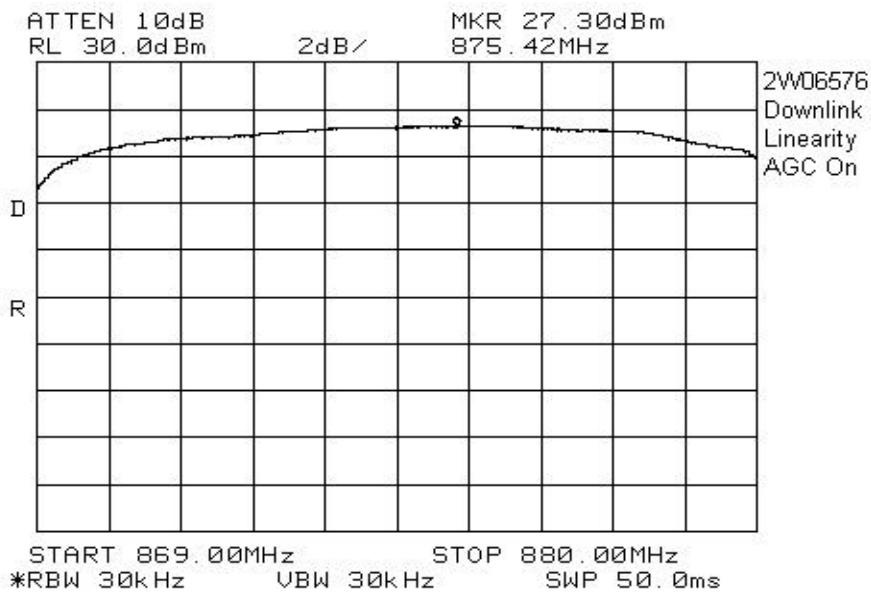
Minimum Standard: 22.913(a)**Test Results:** Complied**Measurement Data:** See Attached Graphs. The maximum RF output power is within \pm 1dB of the manufacturer's rating. The RF output power is de-rated according to the number of channels via AGC and is equal to $P_{max} - 10\log N$.

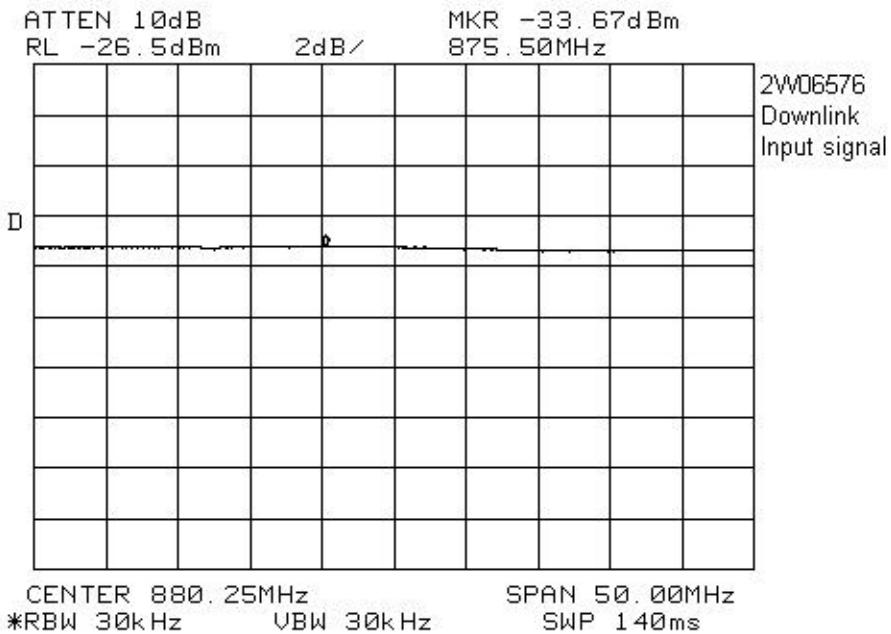
Pmax = Maximum RF Output Power

N = Number Of Channels

Uplink



Downlink

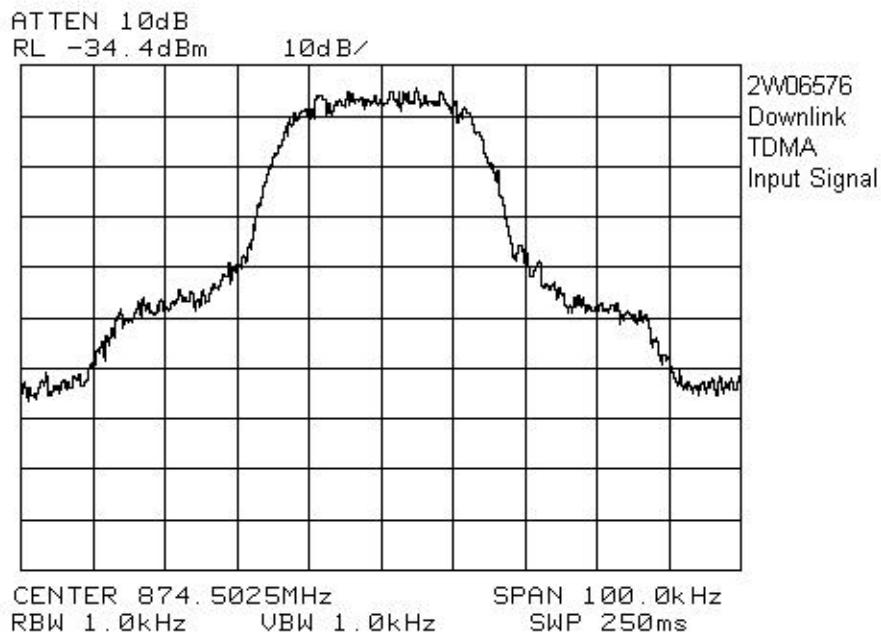
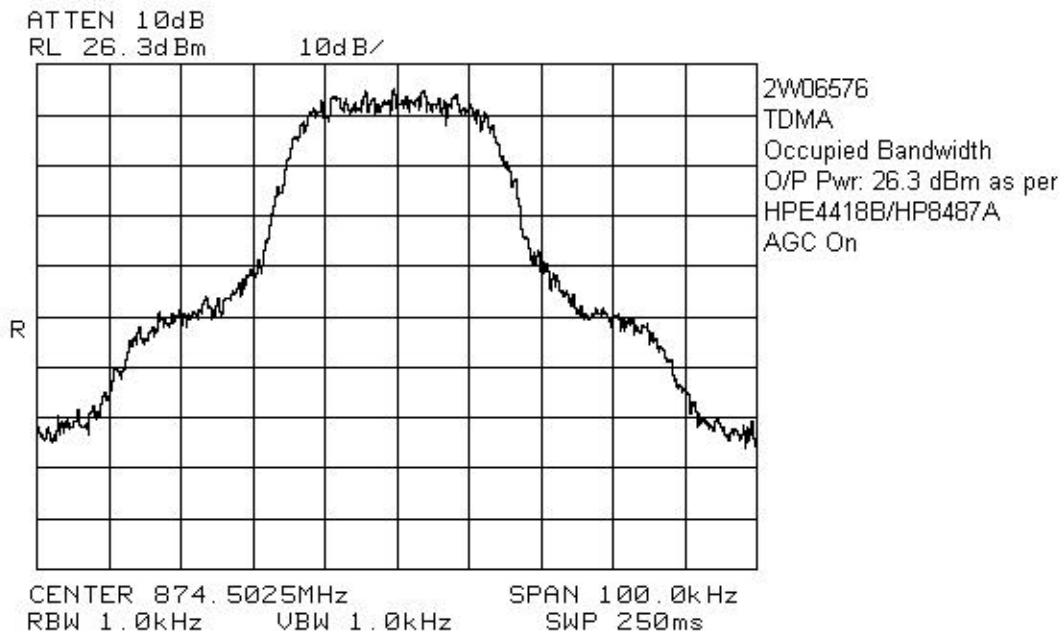


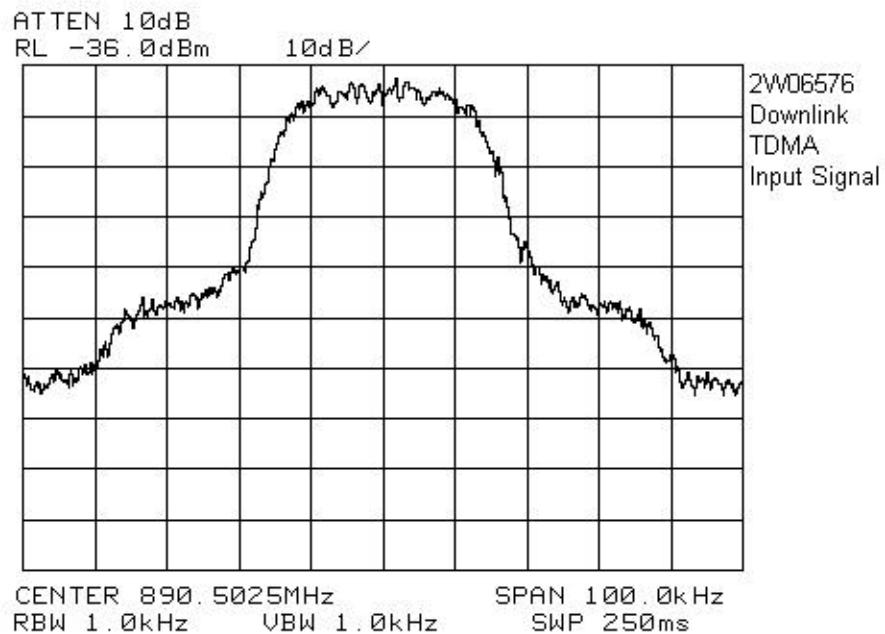
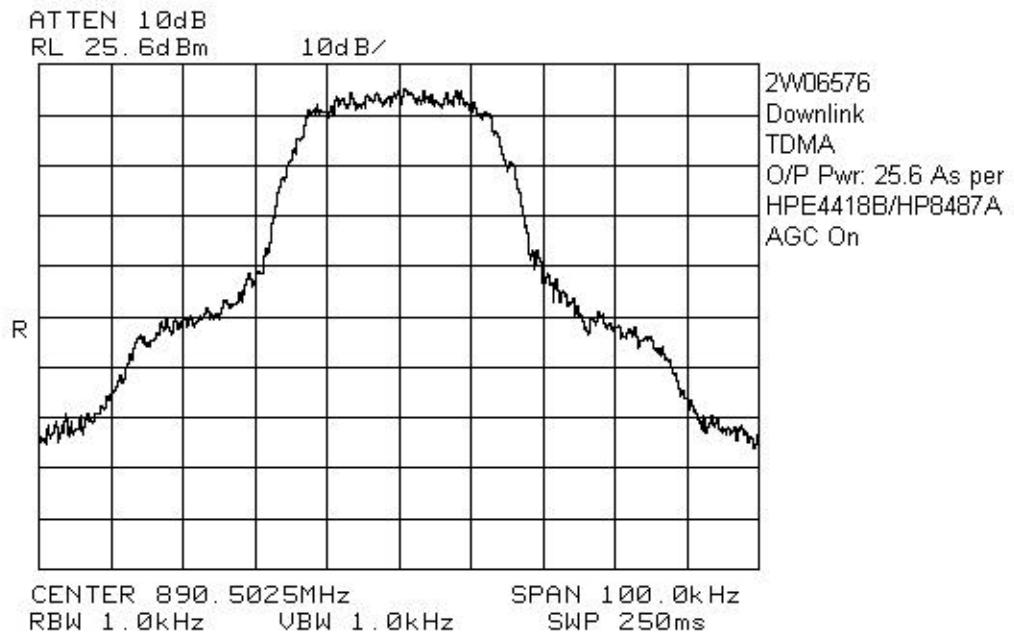
Section 4. Occupied Bandwidth**Para. No.: 2.1049**

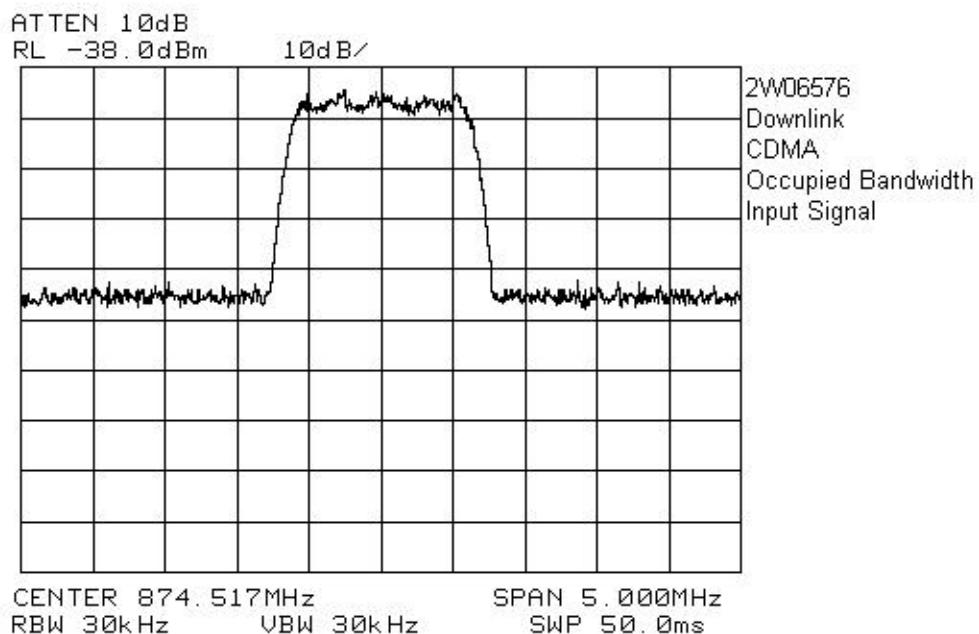
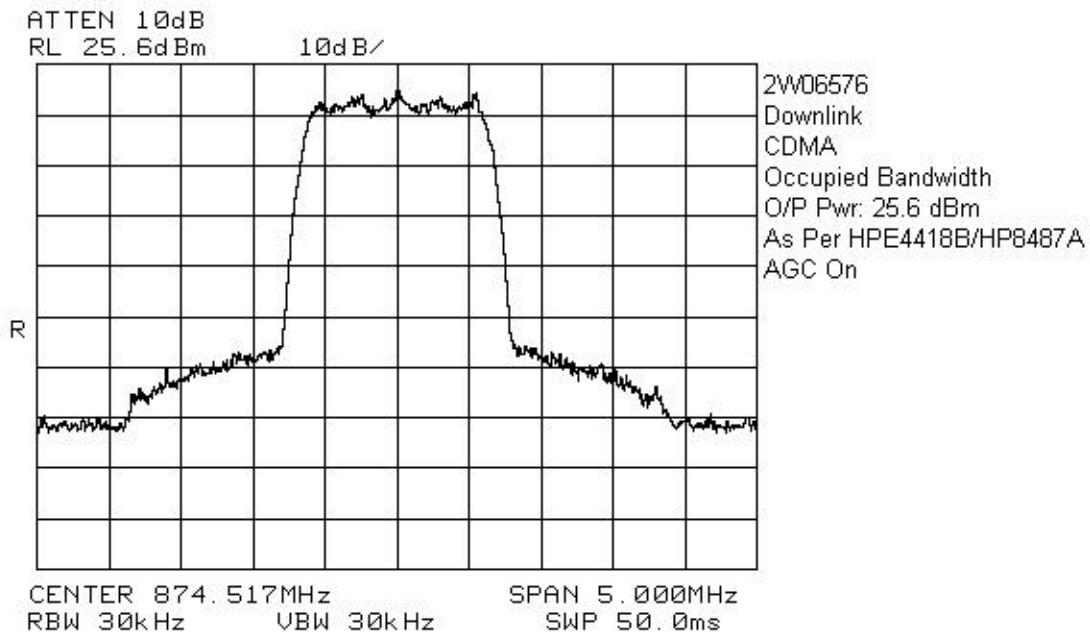
Test Performed By: Kevin Carr	Date of Test: 13 Dec. 2002
--------------------------------------	-----------------------------------

Minimum Standard: 22.917, Input vs Output**Test Results:** Complied.**Measurement Data:** See Attached Graphs

The occupied bandwidth was measured by comparison of input to the output signal. This was done in order to determine if there was any degradation to the output signal due to the amplification through the repeater.







EQUIPMENT: BDA-CELLAB-2/2W-60-BX