CERTIFICATION

TEST REPORT PREPARED ON BEHALF OF

3COM CORPORATION

FOR THE

FCC ID: DF63C80500

Under Part 90

Prepared

By

SPECTRUM TECHNOLOGY, INC
209 Dayton Street, Suite 205
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March 22, 1999

CERTIFICATION

TABLE OF CONTENTS

TEST:	**RF POWER OUTPUT**
FCC ID:	DF63C80500
Grantee:	3COM
Serial No.:	none
Manufacture Rating:	2 Watt peak
Equipment Authorization Procedure:	Para. 2.985 (a)
Test Equipment:	See Block Diagram
Duty Cycle:	Query Response Type Device Please refer to SAR details related to this issue
Frequency Measured:	898.000 MHz

FINAL RADIO FREQUENCY AMPLIFYING DEVICE

Power Amplifier is an Alpha AP112-79, a two-stage GaAs MMIC power amplifier IC and associated matching circuitry.

The standard model has a permanently attached antenna. An engineering sample with a SMA adapter soldered into the circuit instead of the antenna was used for measurements.

Measured Power Output: 2 Watt 33 dBm

Note: Due to the product design it was not possible to physically measure the collector current (IC) and collector voltage (VC) directly for the exciter input.

TEST: **OCCUPIED BANDWIDTH**

FCC ID: DF63C80500

Grantee: 3COM Corporation

Serial No.: none

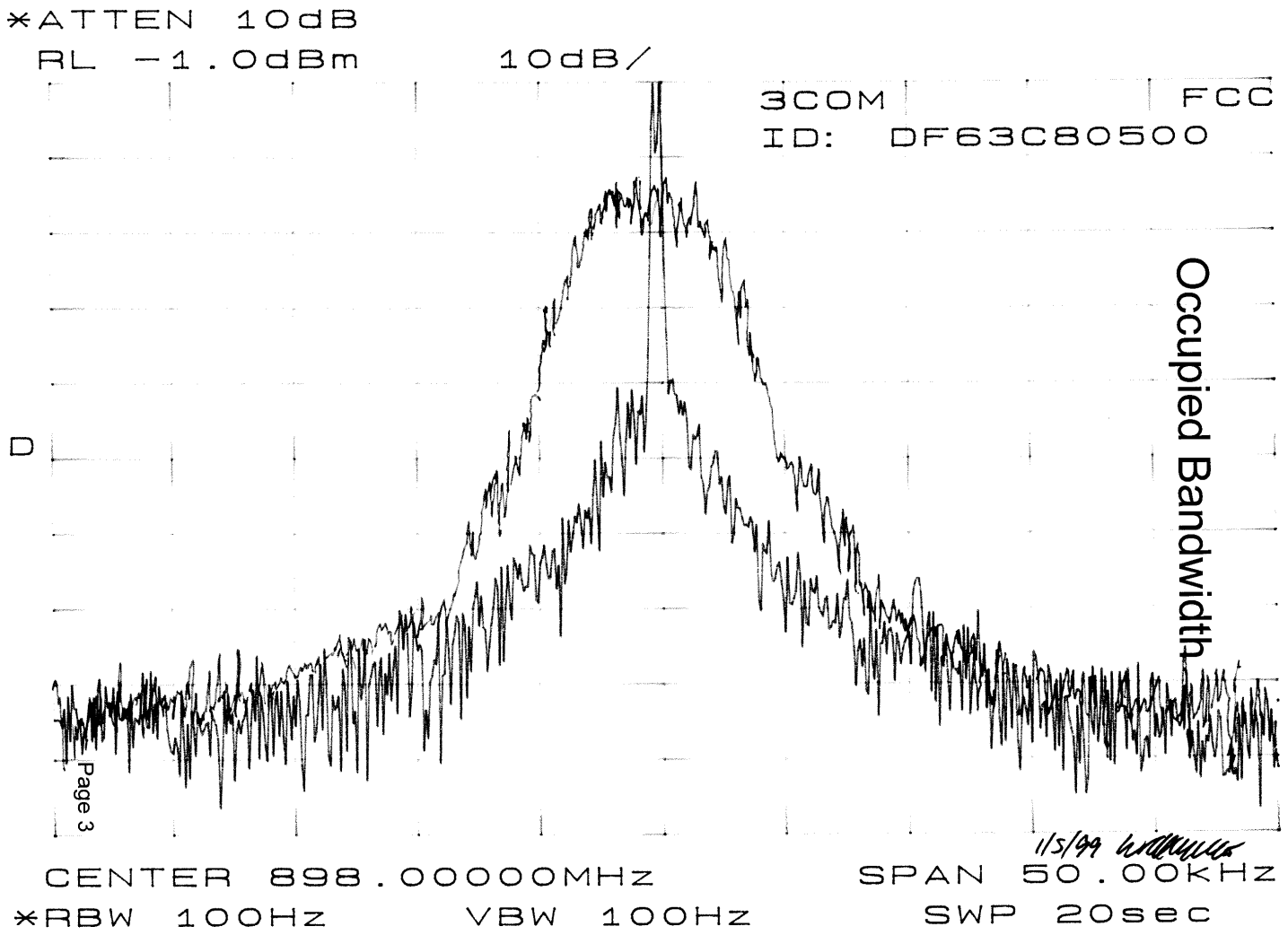
Minimum Standard Specified:	Para. 90.211 (f)
Test Results:	Equipment is Compliant with Standard
Equipment Authorization Procedure:	Para. 2.989 (c)(1)
Test Equipment Set Up:	Please refer to Block Diagram #1

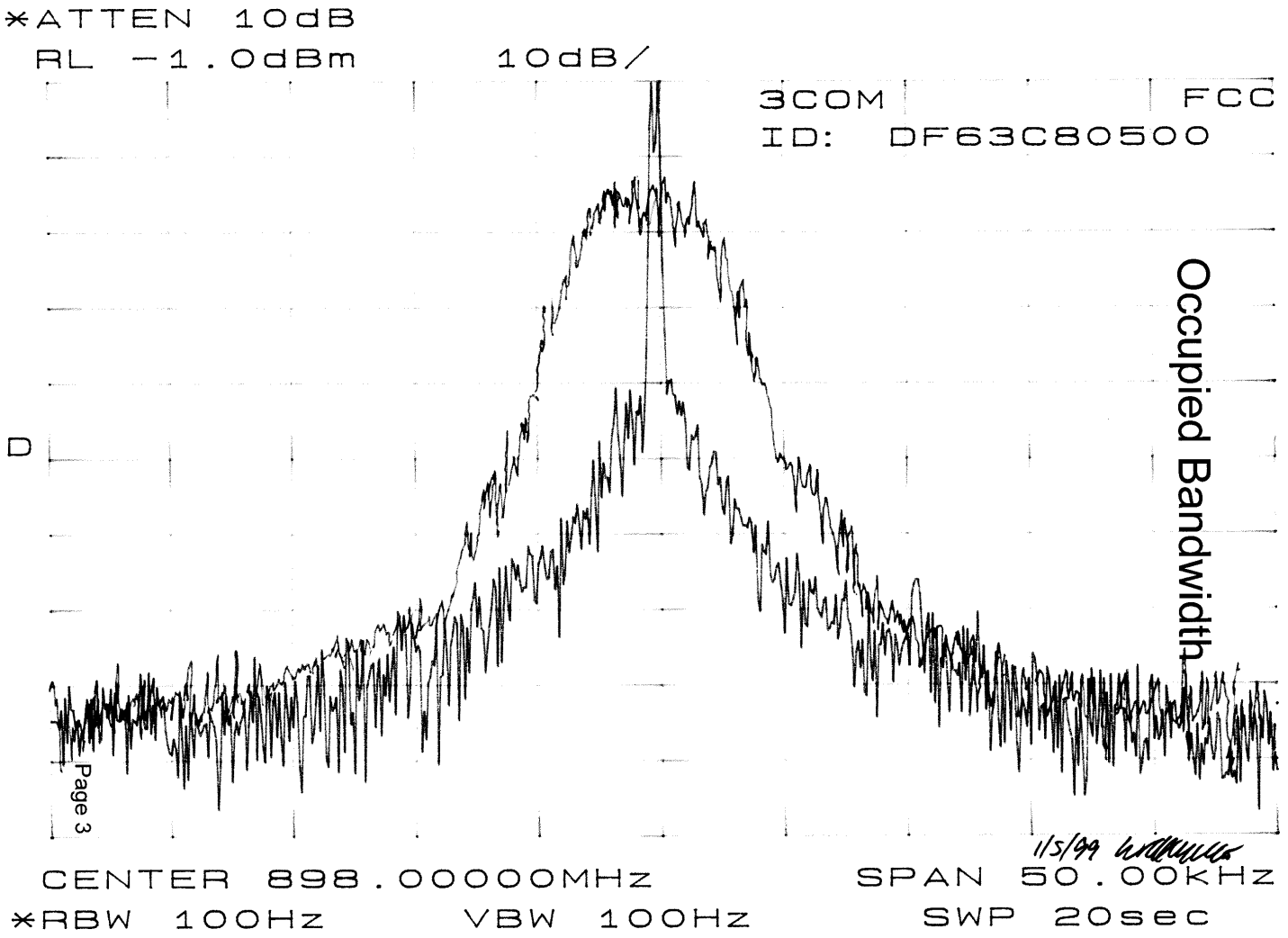
MEASUREMENT DATA

Spectrum Analyzer: Hewlett Packard 8562A

Test Plots Located		Pg 3	Pg 4	Pg 5	
Settings:	Resolution Bandwidth:	100	300	100	kHz
	Video Filter:	100	300	100	kHz
	Scan Time:	4.0	3.0	4.0	sec.
	Scan Width:	50	100	50	kHz
	Center Frequency:	898.0000	same	same	MHz

The transmitter was modulated with Mobitex data and modulated at its maximum designed data rate.


*ATTEN 10dB
RL -1.0dBm
10dB/
3COM
FCC
ID: DF63C80500
D
Occupied Bandwidth
Page 3
11/5/99
CENTER 898.00000MHz
SPAN 50.00kHz
*RBW 100Hz
VBW 100Hz
SWP 20sec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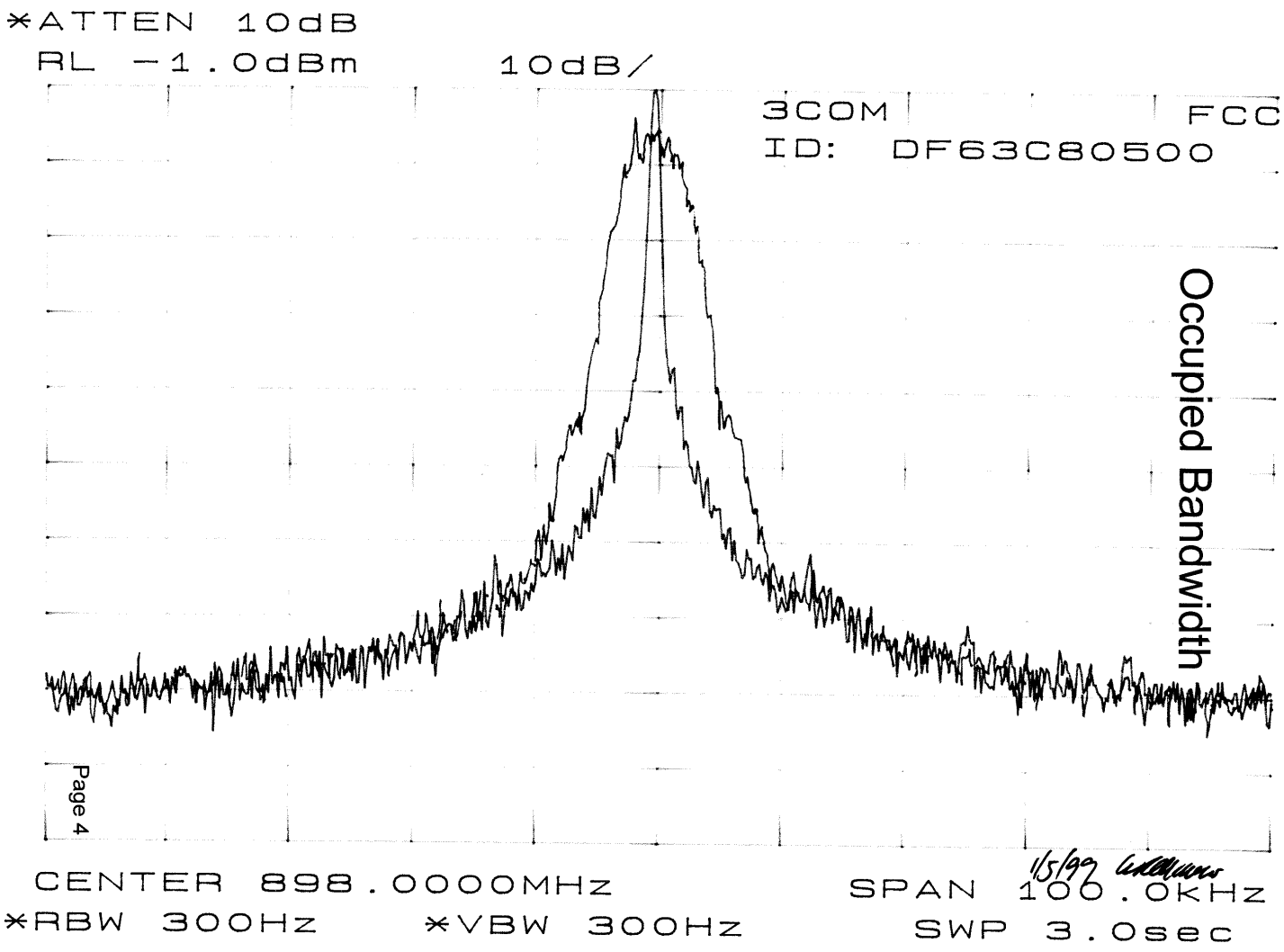
RL -1.0dBm
10dB/
3COM
FCC
ID: DF63C80500
D
Occupied Bandwidth
Page 3
11/5/99
CENTER 898.00000MHz
SPAN 50.00kHz
*RBW 100Hz
VBW 100Hz
SWP 20sec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RL -1.0dBm
10dB/
3COM
FCC
ID: DF63C80500
Occupied Bandwidth
Page 4
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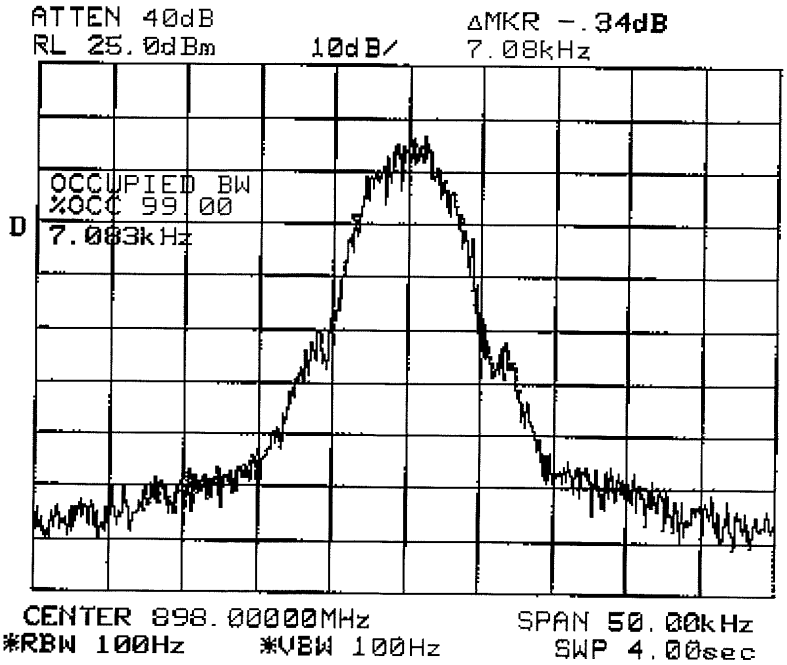
SPAN 100.0kHz
*RBW 300Hz
*VBW 300Hz
SWP 3.0sec

1/5/99

Occupied Bandwidth



TEST: **FIELD INTENSITY MEASUREMENTS OF SPURIOUS RADIATION**

FCC ID:	DF63C80500
Manufacturer:	3COM Corporation
Serial No.:	none
Minimum Standard Specified:	Para. 90.210 (j)
Test Results:	Equipment complies with standard
Equipment Authorization Procedure:	Para. 2.993 & 2.989
Test Equipment Set Up:	See Block Diagram
Frequency Range Observed:	0 to 10 GHz
Operating Frequency:	898.0000 MHz
Crystal Frequency:	13 MHz Reference, 44.55 MHz 2nd LO
Power Output:	2 Watt power (peak)
Spurious Limit = 50 dB + $10Log_{10}$ PO =	= 53.01 dB below the carrier

		Original 1/5/99 Rev. J11	Class II PC 2/3/99 Rev. J13
FORMULA	FREQUENCY IN MHz	Level (dB below carrier)	
Fo	898.0	-0-	-0-
2Fo	1796.0	56.3	60.63
3Fo	2694.0	59.25	64.45
4Fo	3592.0	64.66	60.99

All other radiated emissions measured were more than 20 dB below the spurious limit when measured at three meters EUT to antenna spacing.

TEST: **OPERATIONAL FREQUENCY STABILITY PERFORMANCE**

FCC ID:	DF63C80500	
Grantee:	3COM Corporation	
Serial No:	none	
Minimum Standard Specified:	Para. 90.213	Limit +/- .00015%
Equipment Authorization Procedure:	Para. 2.995	-30 to +50 C
Test Frequency:	898.000 MHz	1.5 ppm = +/- 1497 Hz

The measurement data graphically reported on the following page displays the frequency observed when the transmitter was keyed immediately following power up the Palm VII. This value was recorded and is reported. Measurements at -30, 0 and +50 degrees C showed that the transmitter was well within the 1.5 ppm limit. The equipment power was off during changes in ambient temperature.

Two temperature probes connected to a Fluke 52, were used during the measurements. The first probe was inserted through a small opening in the transceiver cover and placed in contact with the largest internal mass inside the transceiver. The other probe was left outside of the transmitter within the chamber at a location with good air circulation to accurately measure the internal chamber temperature for comparison the internal transmitter temperature and insure that the equipment was stabilized at a given temperature.

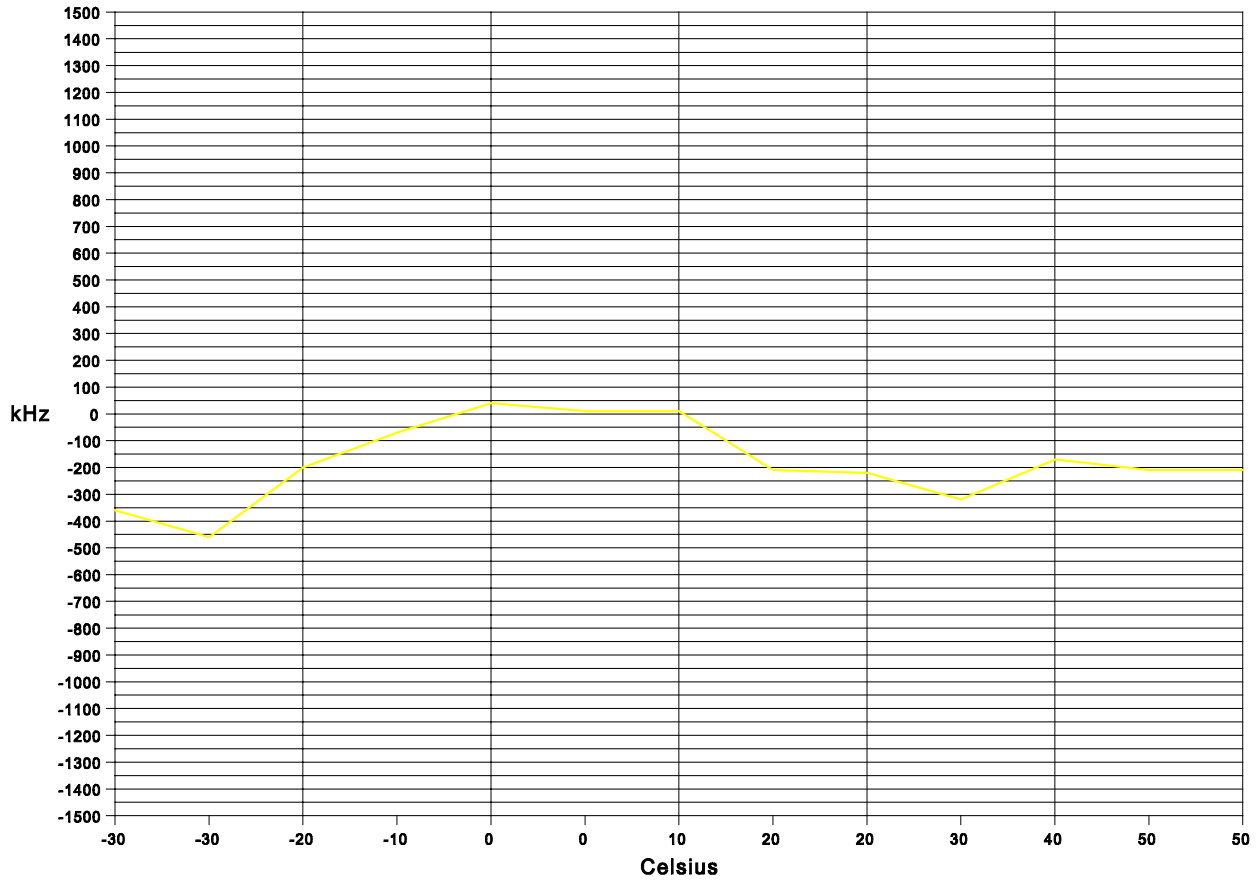
The voltages used for measurements at -30, 0, & +50 degrees Celsius:

+ 15 %	battery powered n/a
Nominal	3.0 VDC
- 15 %	1.7 VDC

TEST: **OPERATIONAL FREQUENCY STABILITY PERFORMANCE**

FCC ID:	DF63C80500	
Grantee:	3COM Corporation	
Model:	Palm VII	
Minimum Standard Specified:	Para. 90.213	.00015% 1.5 ppm @ 998 MHz = +/-1497 Hz
Equipment Authorization Procedure:	Para. 2.995	
Test Frequency:	898.000 MHz	896 - 901 MHz Band

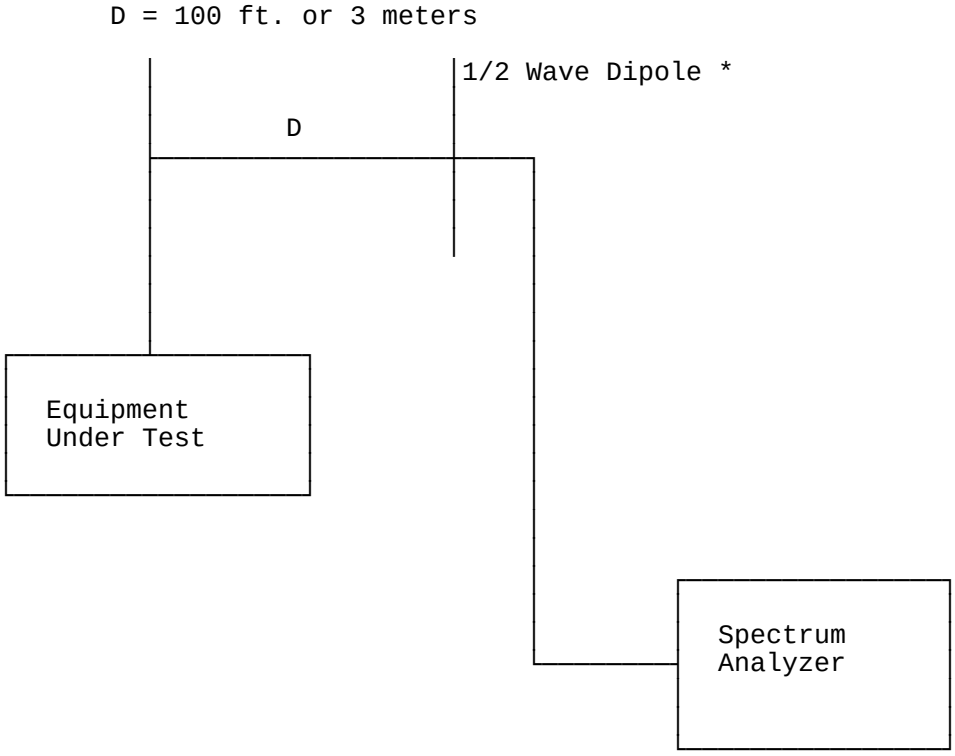
Graph Of Frequency Stability



The variation in voltage is shown on the plot above for +50, +20, 0 and -30 C. Two readings are shown at each of these four temperatures. The left-hand reading is the - 15 % VDC and the right hand reading is Nominal 3.0 VDC. The other reported readings are at the nominal operating voltage.

BLOCK DIAGRAM #1

Field Intensity Measurement Of
Spurious Radiation Test Set Up



See Equipment List
for Equipment Specifications

* 1/2 Wave Dipole 30-1000 MHz
Dual Ridged Guide Antenna or Broadband Log Periodic 1-10 GHz

TEST EQUIPMENT LIST A
SPECTRUM TECHNOLOGY, INC.

Equipment	Manufacturer	Serial Number	Cal Date/Due Date
Spectrum Analyzer	*Hewlett-Packard 8562A*	*08562-60062*	*9/14/98 9/14/99*
Amplifier 9 kHz-1300 MHz	*Hewlett-Packard 8447F OPT H64*	*2727A02208*	*9/14/98 9/14/99*
RF Signal Gen.	*Fluke 6071A*	*2915016*	*8/11/98 5/11/99*
Service Monitor	*IFR FM/AM 500A*	*4103*	*---*
Oscilloscope	*Kikusui C055060*	*6132295*	*---*
Power Supply	*Astron VS35*	*8601266*	*---*
Voltmeter	*Fluke 8020A*	*N2420658*	*---*
Multimeter	*Fluke 25*	*3710310*	*---*
Wattmeter	*Bird 43*	*56227*	*---*
RF Termination	*Bird 8135*	*10004*	*---*
Dual Phase LISN 50 ohm/50 uH	*STI per MP-4*	*02*	*1/9/98 1/9/99*
Dual Phase LISN 50 ohm/50 uH	*Compliance Design*	*8012-50R-24-BNC*	*1/9/98 1/9/99*
Audio Generator	*Hewlett-Packard 205-AG*	*8689*	*---*
Attenuators:	*Texscan FP45-20* *Texscan FP45-10* *Weinshel 40-10-33* *Mini-Circuits CAT30* *Pomona 4108-10*	 *CZ682* *8419 01* 	
Thermometer	*Fluke 52*	*3965185*	*---*
Test Line Simulator	*Teltone TLS-2*	*none*	*---*
Turn Table, RC	*EMCO 1060-2M*	*8912-1415*	*---*
Antenna Mast, RC	*Compliance Design, Inc.*	*M100*	*---*
Antennas:			
DiPole Set	*EMCO Model: 3121C*	*1335*	*9/18/97 3/18/99*
Diploe Set	*EMCO Model: 3121C*	*1336*	*9/18/97 3/18/99*
Bi-Conical	*EMCO 3104*	*3763*	*reference only*
Bi-Conical	*EMCO 3104C*	*9401-4635*	*6/20/97 1/20/99*
Log-Periodic	*EMCO 3146*	*1754*	*6/15/98 6/15/99*
Active Loop	*EMCO 6502*	*9107-2645*	*reference only*