	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## **ELECTRO-MAGNETIC COMPATIBILITY**

### **EMC TEST REPORT**

FOR

**PALM, INC.**

**DUAL-BAND PCS/CELLULAR CDMA-2000 PHONE**

WITH

**BLUETOOTH**

**MODEL: TREO XXX**

**FCC ID: O8F93001**

**IC: 3905A-93001**

**Test Report Serial Number**


**121405O8F-T705-E24C**

**Test Report Issue No.**

**E705C-020306-R0**

**Test Lab**

**Celltech Compliance Testing & Engineering Lab  
(Celltech Labs Inc.)  
1955 Moss Court  
Kelowna, BC  
Canada  
V1Y 9L3**

	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
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	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


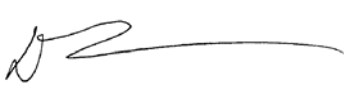
## DECLARATION OF COMPLIANCE


<b>Test Lab</b>		<b>CELLTECH LABS INC.</b> Testing and Engineering Services 1955 Moss Court Kelowna, B.C. Canada V1Y 9L3  <b>Phone:</b> 250-448-7047 <b>Fax:</b> 250-448-7048 <b>e-mail:</b> info@celltechlabs.com <b>web site:</b> www.celltechlabs.com				<b>Applicant</b>		<b>PALM, INC.</b> 950 West Maude Avenue Sunnyvale, CA 94085-2801 United States							
<b>Lab Registration No.(s):</b>		<b>FCC:</b>		714830		<b>IC:</b>		3874							
<b>Rule Part(s):</b>		<b>FCC:</b>		§2	§22H	§24E	<b>IC:</b>		RSS-133 Issue 3		RSS-132 Issue 2				
<b>Device Classification:</b>		<b>FCC:</b>		PCS Licensed Transmitter held to ear (PCE)											
		<b>IC:</b>		2 GHz Personal Communication Services (RSS-133 Issue 3) 800 MHz Cellular Telephones Employing New Technologies (RSS-132 Issue 2)											
<b>Device Identification:</b>		<b>FCC ID:</b>		08F93001		<b>IC:</b>		3905A-93001							
<b><u>DUT Description:</u></b>															
<b>Model:</b>		Treo XXX													
<b>Device Description:</b>		Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth													
<b>Tx Frequency Range(s):</b>		Cellular CDMA		824.70 - 848.31 MHz											
		PCS CDMA		1851.25 - 1908.75 MHz											
<b>Maximum RF Conducted Output Power Levels Measured:</b>		Cellular CDMA		Ch. 1013		23.8 dBm		Ch. 384		24.4 dBm		Ch. 777		24.2 dBm	
						0.240 W				0.275 W				0.263 W	
		PCS CDMA		Ch. 25		23.8 dBm		Ch. 600		24.7 dBm		Ch. 1175		24.0 dBm	
						0.240 W				0.295 W				0.251 W	
<b>Max. ERP Measured:</b>		25.67 dBm		0.369 W		848.31 MHz		Cellular CDMA Band							
<b>Max. EIRP Measured:</b>		24.06 dBm		0.254 W		1880.00 MHz		PCS CDMA Band							
<b>Emission Designator:</b>		1M25F9W													
<b>Antenna Type(s):</b>		External Fixed Stubby													
<b>Power Source(s):</b>		Stationary: Switching Power Supply (Model: DSC-51F-52P US; P/N: 14-0028-02)													
		3.7 VDC Lithium-ion Battery (P/N: 157-10014-00)													


This wireless device has demonstrated compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR Rule Parts 2, 22H, 24E; Industry Canada RSS-132 Issue 2, RSS-133 Issue 3; and ANSI TIA/EIA-603-C-2004.

I attest to the accuracy of the data. All measurements reported herein were performed by me or were under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

This test report shall not be reproduced partially, or in full, without the prior written approval of Celltech Labs Inc. The results and statements contained in this report pertain only to the device(s) evaluated.


<b>Tested By:</b>  <b>Spencer Watson</b> Senior Compliance Technologist Celltech Labs Inc.	<b>Reviewed By:</b>  <b>Duane M. Friesen</b> EMC Manager Celltech Labs Inc.
---	--


<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

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Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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 Testing and Engineering Services Lab	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
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	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


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Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth				Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## TEST SUMMARY

### Referenced Standard: FCC CFR Title 47 Part 2, 22H

Appendix	Test Description	Procedure Reference	Limit Reference	Test Start Date	Test End Date	Result
B	Conducted RF Output Power	§2.1046	§2.1046	14Dec05	14Dec05	Pass
C	Occupied Bandwidth	§2.1049	§2.202	14Dec05	14Dec05	Pass
D	Conducted TX Spurious Emissions	§22.917(b)	§22.917(a)	15Jan06	15Jan06	Pass
E	Effective Radiated Power	ANSI/TIA/EIA-603-C	§22.913	10Jan06	15Jan06	Pass
F	Radiated TX Spurious Emissions	ANSI/TIA/EIA-603-C	§22.917 (e)	10Jan06	15Jan06	Pass

### Referenced Standard: FCC CFR Title 47 Part 2, 24E


G	Conducted RF Output Power	§2.1046	§2.1046	14Dec05	14Dec05	Pass
H	Occupied Bandwidth	§2.1049	§2.202	14Dec05	14Dec05	Pass
I	Conducted TX Spurious Emissions	§24.238(b)	§24.238(a)	15Jan06	15Jan06	Pass
J	Effective Isotropic Radiated Power	ANSI/TIA/EIA-603-C	§24.232(b)	10Jan06	15Jan06	Pass
K	Radiated TX Spurious Emissions	ANSI/TIA/EIA-603-C	§24.238 (a)	10Jan06	15Jan06	Pass


### Referenced Standard: IC RSS-132 Issue 2

B	Conducted RF Output Power	RSS-Gen §4.6	SRSP-503 §5.1	14Dec05	14Dec05	Pass
C	Occupied Bandwidth	FCC CFR 47 §2.1049	RSS-132 §4.2	14Dec05	14Dec05	Pass
D	Conducted TX Spurious Emissions	RSS-Gen §4.7	RSS-132 §4.5	15Jan06	15Jan06	Pass
E	Effective Radiated Power	ANSI/TIA/EIA-603-C	SRSP-503 §5.1	10Jan06	15Jan06	Pass
F	Radiated TX Spurious Emissions	RSS-Gen §4.7	RSS-132 §4.5	10Jan06	15Jan06	Pass
L	Conducted RX Spurious Emissions	RSS-Gen §4.8	RSS-Gen §6 (b)	18Jan06	18Jan06	Pass

### Referenced Standard: IC RSS-133 Issue 3

G	Conducted RF Output Power	ANSI/TIA/EIA-603-C	SRSP-510 §5.1.2	14Dec05	14Dec05	Pass
H	Occupied Bandwidth	FCC CFR 47 §2.1049	RSS-133 §6.2	14Dec05	14Dec05	Pass
I	Conducted TX Spurious Emissions	RSS-Gen §4.7	RSS-133 §6.5	15Jan06	15Jan06	Pass
J	Effective Isotropic Radiated Power	ANSI/TIA/EIA-603-C	RSS-133 §6.4	10Jan06	15Jan06	Pass
K	Radiated TX Spurious Emissions	RSS-Gen §4.7	RSS-133 §6.5	10Jan06	15Jan06	Pass
M	Conducted RX Spurious Emissions	RSS-133 §4.5	RSS-133 §6.7 (b)	18Jan06	18Jan06	Pass



Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


### REVISION LOG

Issue No.	Description	Implemented By	Implementation Date
E705C-020306-R0	Initial Release	Jonathan Hughes	February 03, 2006

### SIGNATORIES

Prepared By:		January 19, 2006
Name/Title	Duane M. Friesen, C.E.T. / EMC Manager	Date
Approved By:		February 03, 2006
Name/Title	Jonathan Hughes / General Manager	Date

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


## 1.0 SCOPE


This report outlines the measurements made and results collected during electromagnetic emissions testing of the Palm Treo XXX Dual-Band CDMA-2000 Phone FCC ID: O8F93001. The measurement results were applied against the applicable EMC requirements and limits outlined in the technical rules and regulations set forth in the Federal Communications Commission's Code of Federal Regulations Title 47 Parts 2, 22 Subpart H, and 24 Subpart E; and Industry Canada Radio Standards Specifications RSS-132 Issue 2, and RSS-133 Issue 3.

## 2.0 REFERENCES

### 2.1 Normative References

ANSI/ISO 17025:1999	General Requirements for competence of testing and calibration laboratories
IEEE/ANSI C63.4:2003	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
IEEE/ANSI Std C95.1:1999	American National Standard Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields
ANSI/TIA/EIA-603-C:2004	Land Mobile FM or PM Communication Equipment Measurement and Performance Standards
CFR Title 47 Part 2:2004	Code of Federal Regulations Title 47: Telecommunication Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations Part 22: Public Mobile Services Part 24: Personal Communication Services
IC Spectrum Management & Telecommunications Policy	Radio Standards Specification RSS-102 Issue 2 - Evaluation Procedure for Mobile and Portable Radio Transmitters with respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields RSS-132 Issue 2 - 800 MHz Cellular Telephones Employing New Technologies RSS-133 Issue 3 - 2 GHz Personal Communication Services SRSP-503 Issue 6 - Technical Requirements for Cellular Radiotelephone Systems Operating in the Bands 824 - 849 MHz and 869 - 894 MHz SRSP-510 Issue 3 - Technical Requirements for Personal Communications Services in the Bands 1850-1910 MHz and 1930-1990 MHz

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

### 3.0 TERMS AND DEFINITIONS


AV	Average
CDMA	Code Division Multiple Access
CFR	Code of Federal Regulations
dB	decibel
dBm	dB referenced to 1 mW
dBuV	dB referenced to 1 uV
DUT	Device under Test
dBc	dB down from carrier
EBW	Emission Bandwidth
EIRP	Effective Isotropic Radiated Power
EDGE	Enhanced Data Rates for CDMA Evolution
EMC	Electromagnetic Compatibility
ERP	Effective Radiated Power
EV-DO	Evolution - Data Only
FCC	Federal Communication Commission
FHSS	Frequency Hopping Spread Spectrum
FPC	Flexible Printed Circuit
CDMA	Global Systems for a Mobility Communication
GPRS	General Packet Radio Service
HP	Hewlett Packard
HPF	High Pass Filter
Hpol	Horizontal Polarization
Hz	Hertz
IC	Industry Canada
kHz	kilohertz
LNA	Low Noise Amplifier
m	meter
MHz	Megahertz
Mbps	megabits per second
na	not applicable
n/a	not available
PK	Peak
PPSD	Peak Power Spectral Density
QP	Quasi-peak
RBW	Resolution Bandwidth
R&S	Rohde & Schwarz
RSS	Radio Standard Specification
RX	Receiver
SA	Spectrum Analyzer
TX	Transmitter
VBW	Video Bandwidth
Vpol	Vertical Polarization
WLAN	Wireless Local Area Network

### 4.0 FACILITIES AND ACCREDITATIONS

The facilities used in collecting the test results outlined in this report are located at 1955 Moss Court, Kelowna, British Columbia, Canada, V1Y 9L3. The radiated and conducted emissions sites conform to the requirements set forth in ANSI C63.4 and are filed and listed with the FCC under Registration Number 714830 and Industry Canada under File Number IC 3874.

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## 5.0 GENERAL INFORMATION

### 5.1 Applicant Information

<b>Company Name:</b>	Palm, Inc.
<b>Address:</b>	950 West Maude Avenue
	Sunnyvale, CA 94085
	United States

### 5.2 DUT Description

The DUT consisted of the Treo XXX wireless phone.

Device:	Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth			
Model:	Treo XXX			
Test Sample Serial No.:	VC1CUBX50184			
Identifier(s):	FCC ID:	08F93001	IC:	3905A-93001
Rule Part(s):	FCC:	§22.913; §22.917; §24.232; §24.238		
	IC:	RSS-132 Issue 2; RSS-133 Issue 3		
Classification(s):	FCC:	- PCS Licensed Transmitter held to ear (PCE)		
	IC:	- 800 MHz Cellular Telephones employing New Technologies (RSS-132)		
		- 2 GHz Personal Communication Services (RSS-133)		
Power Source:	Stationary: Switching Power Supply (Model: DSC-51F-52P US; P/N: 14-0028-02)			
	Lithium-ion Battery 3.7 VDC (P/N: 157-10014-00)			

### 5.3 Co-Located Equipment

<b>Type:</b>	Bluetooth Transmitter with Internal PIFA Antenna
--------------	--


### 5.4 Cable Descriptions


ROUTING		Length	Model	Terminations		Shield Type	Shield Termination		Suppression
From	To	m		End 1	End 2		End 1	End 2	
none									

### 5.5 Support Equipment

The following equipment was used in support of the DUT.

Co-located Support Equipment List		
Manufacturer	Model	Description
Generic	n/a	Ear-Microphone

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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 Testing and Engineering Services Lab	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
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	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## 5.6 Mode(s) of Operation Tested

### 5.6.1 Dual-Band CDMA-2000 Phone

A CDMA Communications Test Set was used to set the Treo XXX phone to the appropriate channel and maximum power level for the specific measurement. Measurements were made with the phone set to the low, mid and high channel in each band or on a worst-case channel for the measurement, as determined by prescan evaluations. The following settings were used for each channel.

#### 5.6.1.1 Cellular CDMA

<b>Transmit Frequency Range:</b>	824.70 - 848.31 MHz Ch. 1013 (824.70 MHz) (low), Ch. 384 (835.89 MHz) (mid) & Ch. 777 (848.31 MHz) (high) measured unless otherwise noted
<b>Software Power Gain Settings:</b>	Set by CDMA communications test set for "all ups"
<b>Emission Designator(s):</b>	1M25F9W

#### 5.6.1.2 PCS CDMA


<b>Transmit Frequency Range:</b>	1851.25 - 1908.75 MHz Ch. 25 (1851.25 MHz) (low), Ch 600 (1880.00 MHz) (mid) & Ch. 1175 (1908.75 MHz) (high) measured unless otherwise noted
<b>Software Power Gain Settings:</b>	Set by CDMA communications test set for "all ups"
<b>Emission Designator(s):</b>	1M25F9W


### 5.6.2 DUT Exercising Software Description

The DUT was configured and exercised during the testing using the CDMA communications test set in "all ups" mode. For the conducted testing, the communications test set signal was fed to the antenna port via a directional coupler. For the radiated testing the communications test set was connected to a transmit antenna placed near the DUT.


## 6.0 PASS/FAIL CRITERIA


Unless otherwise noted in the Appendices, the pass/fail criterion is the limit set forth in the reference standards. A DUT is considered to have passed the requirements, if the data collected during the described measurement procedure is within the specified limits as defined. The pass/fail statements made in this report only apply to the unit tested.

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


## APPENDICES

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix A - Intentionally Blank

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>		
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>		
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix B - Cellular Band Conducted TX RF Output Power Measurement

### B.1. REFERENCES

<b>Normative Reference Standard</b>	FCC CFR 47 §2.1046
<b>Procedure Reference</b>	FCC CFR 47 §2.1046

### B.2. LIMITS

FCC CFR 47 §2.1046 (a) For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedures to give the values of current and voltage on the circuit elements specified in §2.1033(c) (8).

\*ERP limits are specified in Appendix E.


### B.3. ENVIRONMENTAL CONDITIONS


<b>Temperature</b>	25 ± 5 °C
<b>Humidity</b>	35 ± 5 %RH
<b>Barometric Pressure</b>	uncontrolled

### B.4. EQUIPMENT LIST

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00008	Gigatronics	8652A	Power Meter	29Apr05	29Apr06
00014	Gigatronics	80701A	Power Sensor	07Sep05	07Sep06
00114	AR	DC7154	Directional coupler	na	na*
Customer Supplied	Palm	na	Cable & SMA adapter	na	na*
00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06

\* Attenuation offset in power meter setup

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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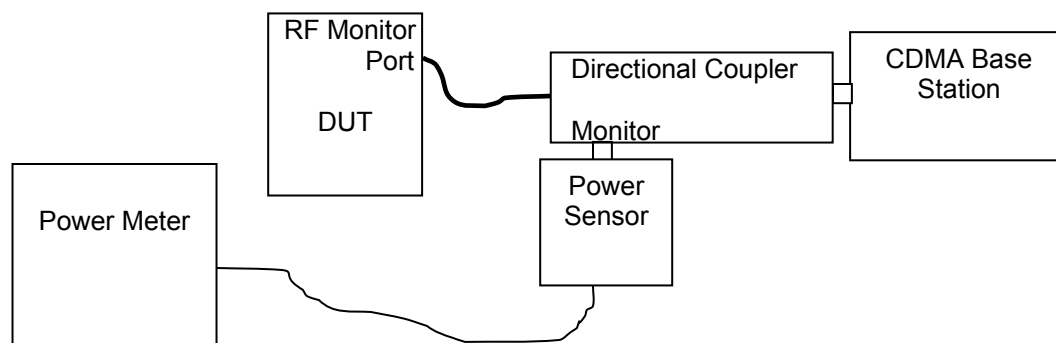
	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### B.5. MEASUREMENT EQUIPMENT SETUP

<b>Measurement Equipment Connections</b>	The equipment was connected as shown in the setup drawing in B.6.
<b>Measurement Equipment Settings</b>	Mode - MAP Offset - set to include loss through cable and directional coupler.
<b>Measurement Procedure</b>	The channel was set on the base station and the resulting power measurement recorded and reported herein.


#### B.6. SETUP DRAWING


Figure B.6-1 - Setup Drawing



#### B.7. DUT OPERATING DESCRIPTION

Power measurements were made for each of the three Cellular test channels (Channel 1013, 384 & 777), with the Treo XXX set appropriately as described in section 5.7.

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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 Testing and Engineering Services Lab	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### B.8. TEST RESULTS

Mode	Channel	Frequency	EBW	Conducted Power	
		MHz	MHz	dBm	Watts
Cellular CDMA	1013	824.700	1.43	+23.8	0.240
	384	836.890	1.43	+24.4	0.275
	777	848.310	1.43	+24.2	0.263

#### B.9. PASS/FAIL

There is no pass/fail criterion for this measurement. The ERP values, applied to appropriate regulatory requirements are outlined in Appendix E.

#### B.10. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




Sean Johnston  
Compliance Technologist  
Celltech Labs Inc.

14Dec05

Date

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth				Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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	Test Report Serial No.:	121405O8F-T705-E24C	Report Issue No.:	E705C-020306-R0
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	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix C - Cellular Band Occupied Bandwidth Measurement

C.1. REFERENCES	
Normative Reference Standard	FCC CFR 47 §2.202
Procedure Reference	FCC CFR 47 §2.1049


C.2. LIMITS	
FCC CFR 47 §2.202	Applicable Emission designator: 1M25F9W therefore: Theoretical OBW=1.25 MHz

C.3. ENVIRONMENTAL CONDITIONS	
Temperature	25 ± 5 °C
Humidity	35 ± 5 %RH
Barometric Pressure	uncontrolled

C.4. EQUIPMENT LIST					
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00015	Agilent	E4408B	Spectrum Analyzer	24Jan05	24Jan06
00102	Pasternack	PE7015-3010	30dB attenuator	na	na*
00079	Pasternack	PE2208-6	Directional coupler	na	na*
Customer Supplied	Palm	na	Cable & SMA adapter	na	na*
00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06

\* Verified with power meter prior to use

C.5. MEASUREMENT EQUIPMENT SETUP				
MEASUREMENT EQUIPMENT CONNECTIONS	The measurement equipment was connected as shown in C.6.			
MEASUREMENT EQUIPMENT SETTINGS	The spectrum analyzer was set to the following settings:			
	RBW	VBW	Detector	
	kHz	kHz		
	30	30	Sample	

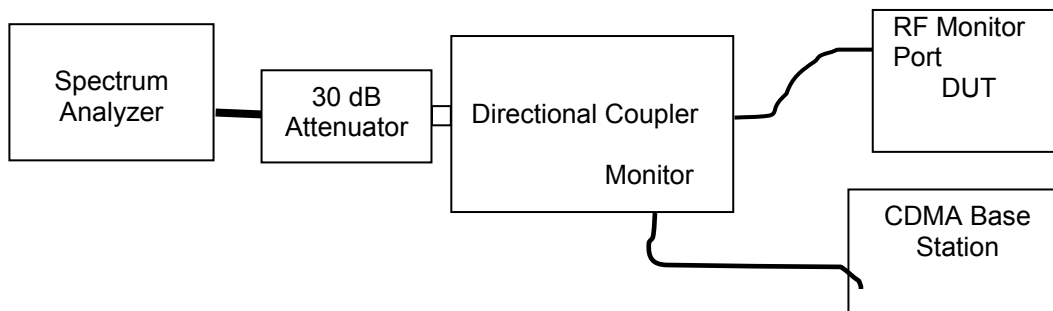
Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## C.6. SETUP DRAWING

Figure C.6-1 - Setup Drawing

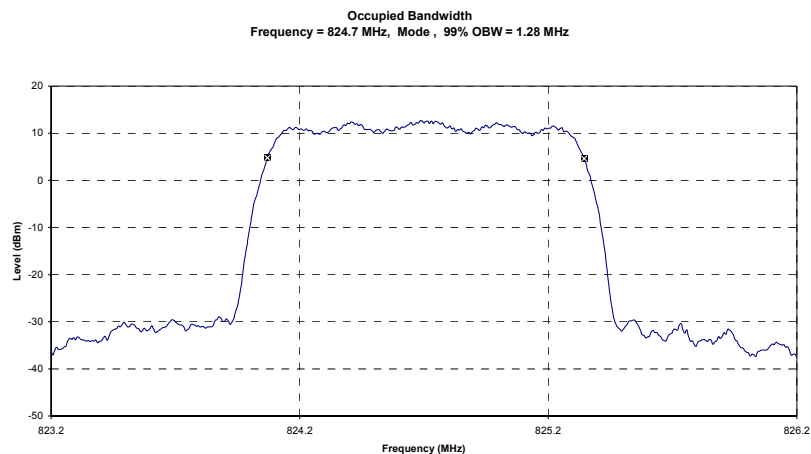


## C.7. DUT OPERATING DESCRIPTION

Measurements were made with the DUT transmitting at maximum power in the cellular band, in a configuration as described in Section 5 of this report.

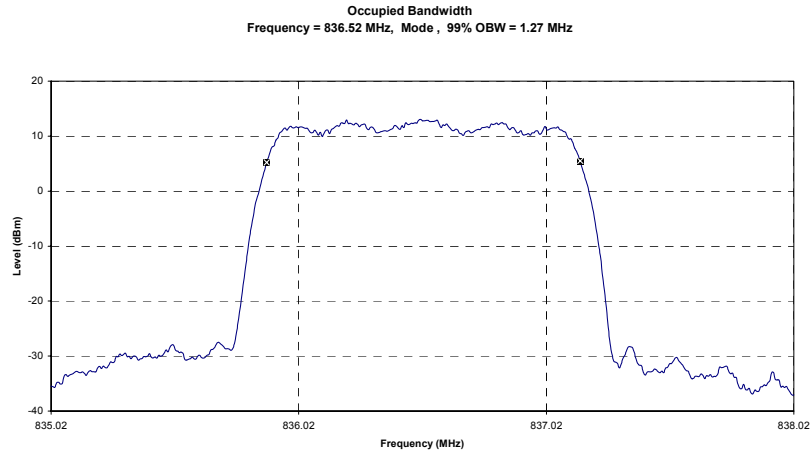
## C.8. TEST RESULTS

Channel 1013 (824.70 MHz)

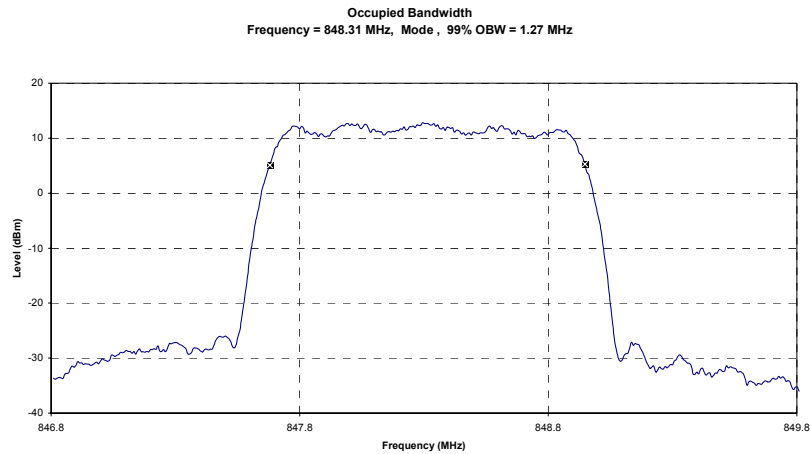


<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

### Channel 384 (836.52 MHz)




### Channel 777 (848.31 MHz)



### Summary

	Channel	Frequency	OBW	
		MHz	MHz	
	1013	824.70	1.28	
	384	836.52	1.27	
	777	848.31	1.27	

	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
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	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### C.9. PASS/FAIL

In reference to the theoretical bandwidth of 1.25 MHz associated with the published Emission designator 1M25F9W, the maximum occupied bandwidth measured exceeds this by 2.4%

#### C.10. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




Duane. M. Friesen  
EMC Manager  
Celltech Labs Inc.

15Jan06

Date

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX		
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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	Test Date(s):	14Dec05 - 18Jan06	Report Issue Date:	February 03, 2006
	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix D - Cellular Band Conducted TX Spurious Emissions Measurement

D.1. REFERENCES	
Normative Reference Standard	FCC CFR 47 §22.917(a)
Procedure Reference	FCC CFR 47 §22.917(b)

D.2. LIMITS	
FCC CFR 47 §22.917	(a) Out of Band Emissions. The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency twice or more than twice the fundamental frequency by: at least $43 + 10 \log P$ dB


D.3. ENVIRONMENTAL CONDITIONS	
Temperature	$25 \pm 5$ °C
Humidity	$35 \pm 5$ %RH
Barometric Pressure	uncontrolled


D.4. EQUIPMENT LIST					
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00015	Agilent	E4408B	Spectrum Analyzer	24Jan05	24Jan06
00102	Pasternack	PE7015-3010	30dB attenuator	na	na*
00079	Pasternack	PE2208-6	Directional coupler	na	na*
Customer Supplied	Palm	na	Cable & SMA adapter	na	na*
00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06

\* Verified with power meter prior to use

D.5. MEASUREMENT EQUIPMENT SETUP					
MEASUREMENT EQUIPMENT CONNECTIONS	The measurement equipment was connected as shown in D.6.				
MEASUREMENT EQUIPMENT SETTINGS	The spectrum analyzer was set to the following settings:				
	Frequency Range	Measurement		Specified BW*	Detector
		RBW	VBW		
	MHz	kHz	kHz	kHz	
	At Block edges	10	10	1% EBW	Sample
	Within 1 MHz of the Block edges	10	10	1% EBW	Sample
	1MHz and 40 MHz from Block edges	10	10	100	Sample
	Beyond 40MHz from Block edges	100	100	100	Peak

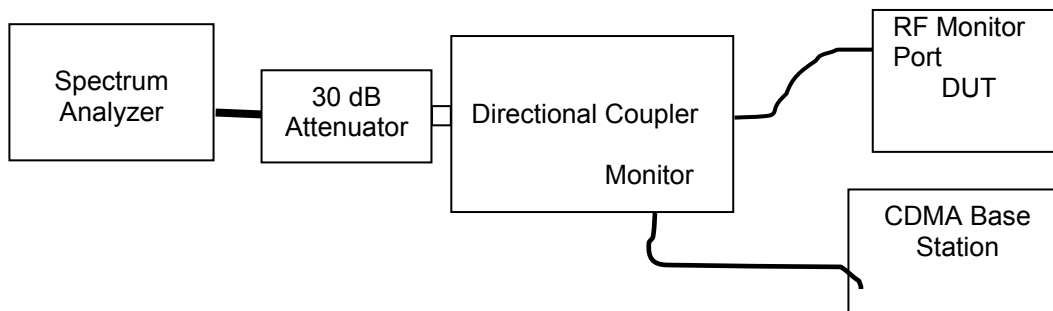
Measured data corrected for specified BW using  $10 \cdot \log$  (measurement RBW / specified BW)

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


## D.6. SETUP DRAWING

Figure D.6-1 - Setup Drawing



## D.7. DUT OPERATING DESCRIPTION

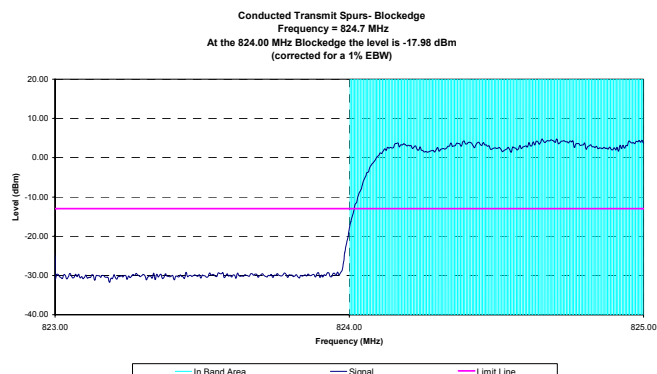
Measurements were made with the DUT transmitting at maximum power in the cellular band, in a configuration as described in Section 5 of this report. The Block Edge measurements were made with the DUT transmitting on the channel closest to the edge under investigation (CH1013 & CH777). The remaining spurious measurements were made on each of the three channels, Low (CH1013), Mid (CH384) and High (CH777).

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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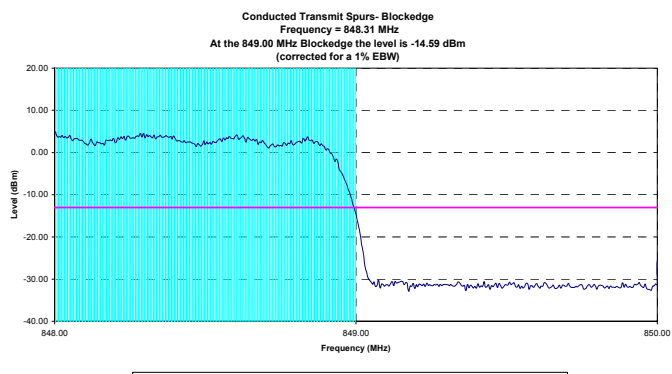
## D.8. TEST RESULTS

### D.8.1. Spurious Emissions within 1MHz of Block Edge

#### Lower Block Edge - 824 MHz (Channel 1013)

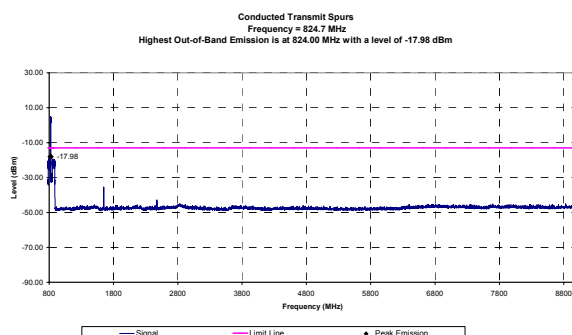
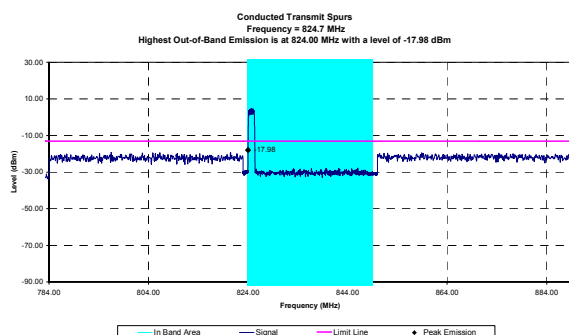


#### Upper Block Edge - 849 MHz (Channel 777)

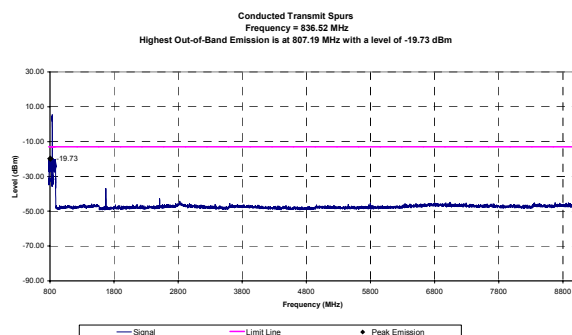
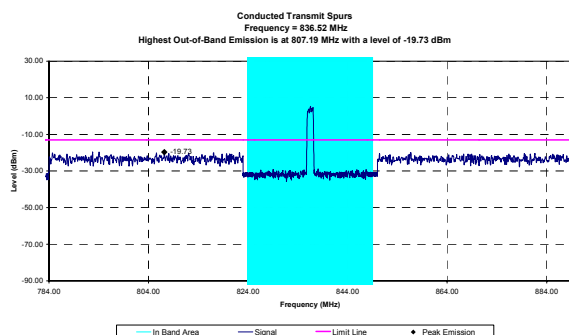


### D.8.2. Conducted Transmit Spurious Emissions

#### Channel 1013



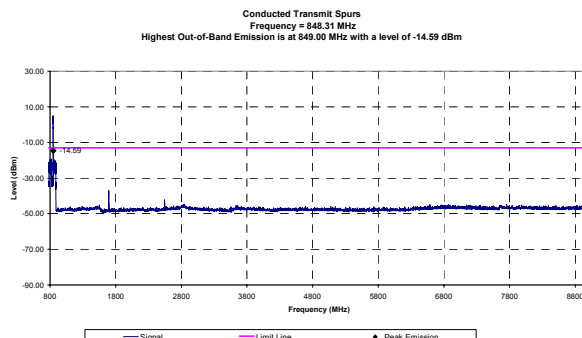
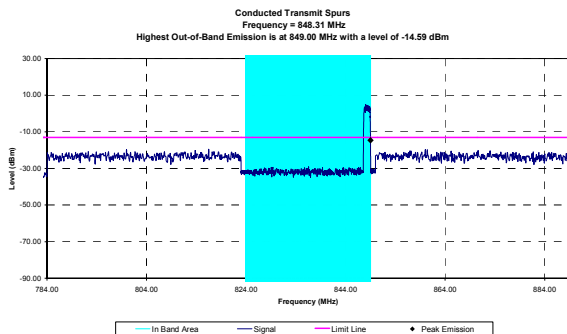
#### Channel 384





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<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

### Channel 777




Channel	Peak Spurious Emission				Limit	Margin	Pass / Fail
	Frequency	Measured Level	Total Correction	Level			
	MHz	dBm	dB	dBm			
1013	824.00	-49.56	31.59	-17.98	-13.00	4.98	Pass
384	807.19	-59.74	40.01	-19.73	-13.00	6.73	Pass
777	849.00	-46.13	31.54	-14.59	-13.00	1.59	Pass


#### Formulae:

Total Correction (dB) = BW correction (dB) + CL (dB) where: CL includes total loss through cable and directional coupler

BW Correction (dB) =  $10 \cdot \log(BW_1/BW_2)$  where:  $BW_1$  is the measurement RBW and  $BW_2$  is the Limit BW\*

\*Limit BW = 1% of the EBW for in-band +/- 1 MHz, 100 kHz for other

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX		
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### D.9. PASS/FAIL

In reference to the results outlined in D.8, the DUT passes the requirements as stated in the reference standards.

FCC CFR 4 §22.917 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

The results set forth in this section meet the requirement with a margin of at least 1.59 dB  
(-14.59 dBm @ 849.00 MHz vs a limit of -13 dBm)


#### D.10. SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




\_\_\_\_\_  
Duane. M. Friesen  
EMC Manager  
Celltech Labs Inc.

\_\_\_\_\_  
15Jan06  
Date

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix E - Cellular Band Effective Radiated Power Measurement


E.1. REFERENCES	
Normative Reference Standard	FCC CFR 47 §22.913 (a)
Procedure Reference	ANSI/TIA/EIA-603-C


E.2. LIMITS	
FCC CFR 47 §22.913 (a)	(a) Maximum ERP. .... The ERP of mobile transmitters and auxiliary transmitters must not exceed 7 Watts.

E.3. ENVIRONMENTAL CONDITIONS	
Temperature	uncontrolled
Humidity	uncontrolled
Barometric Pressure	uncontrolled

E.4. EQUIPMENT LIST						
RECEIVING EQUIPMENT						
ID	ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
1	00072	EMCO	2075	Mini-mast	na	na
2	00073	EMCO	2080	Turn Table	na	na
3	00071	EMCO	2090	Multi-Device Controller	na	na
4	00050	Chase	CBL-6111A	Bilog Antenna	08Feb05	08Feb06
5	00051	HP	8566B	Spectrum Analyzer	12Apr05	12Apr06
6	00047	HP	85685A	Preselector	13Apr05	13Apr06
7	00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06
8	00120	Celltech	n/a	Microwave Cable (RX)	25Mar05	25Mar06
9	00121	Andrew	FSJ4-50B	Microwave Cable (RX)	25Mar05	25Mar06
10	00130	Andrew	FSJ1-50A	Microwave Cable (RX)	25Mar05	25Mar06
ADDITIONAL SUBSTITUTION EQUIPMENT						
ID	ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
11	00059	ETS	3121C	Roberts Dipole	04Dec03	04Dec06
12	00131	Andrew	FSJ1-50A	Microwave Cable (TX)	na	na
13	00127	Andrew	FSJ4-50B	Microwave Cable (TX)	na	na
14	00133	Andrew	FSJ1-50A	Microwave Cable (TX)	na	na
15	00006	R & S	SMR40	Signal Generator	12Apr05	12Apr06
16	00110	Gigatronics	8652A	Power Meter	16Apr05	16Apr06
17	00012	Gigatronics	80701A	Power Sensor	12Sep05	12Sep06
18	00014	Gigatronics	80701A	Power Sensor	7Sep05	07Sep06
19	00102	Pasternack	PE7015-3110	30 dB attenuator	na*	na*
20	00078	Pasternack	PE2214-20	Directional Coupler	na*	na*

\*Attenuation offset in power meter setup

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	Test Report Serial No.:	121405O8F-T705-E24C	Report Issue No.:	E705C-020306-R0
	Test Date(s):	14Dec05 - 18Jan06	Report Issue Date:	February 03, 2006
	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## E.5. MEASUREMENT EQUIPMENT SETUP

MEASUREMENT EQUIPMENT CONNECTIONS	The measurement equipment was connected as shown in E.6.			
MEASUREMENT EQUIPMENT SETTINGS	The spectrum analyzer was set to the following settings:			
	Frequency Range	RBW	VBW	Detector
	MHz	kHz	kHz	
	30 - 1000	100	100	Peak

## E.6. SETUP DRAWING

Figure E.6-1 - Field Strength Setup Drawing

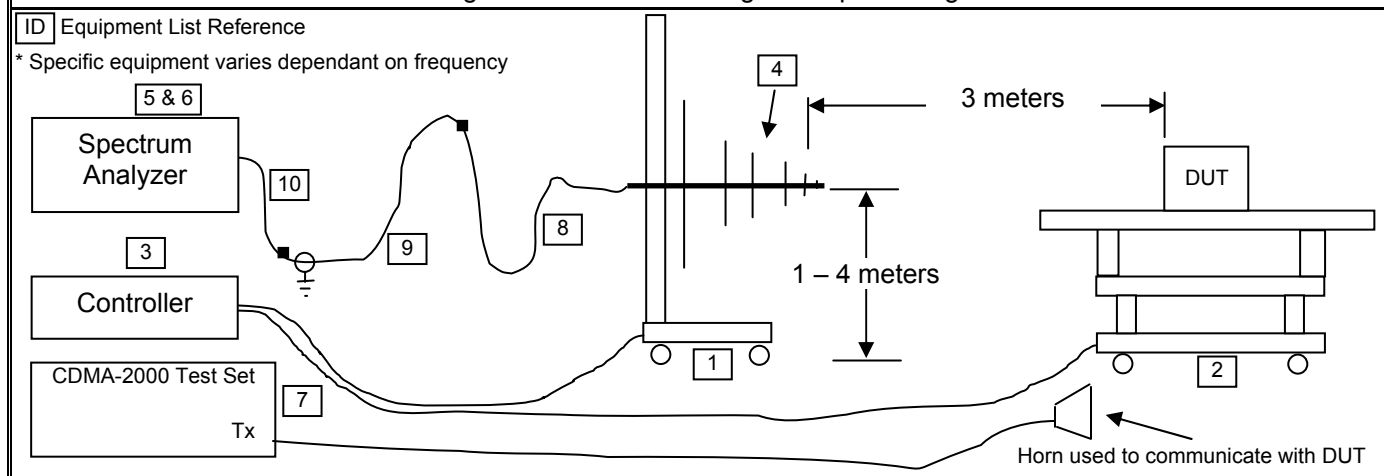
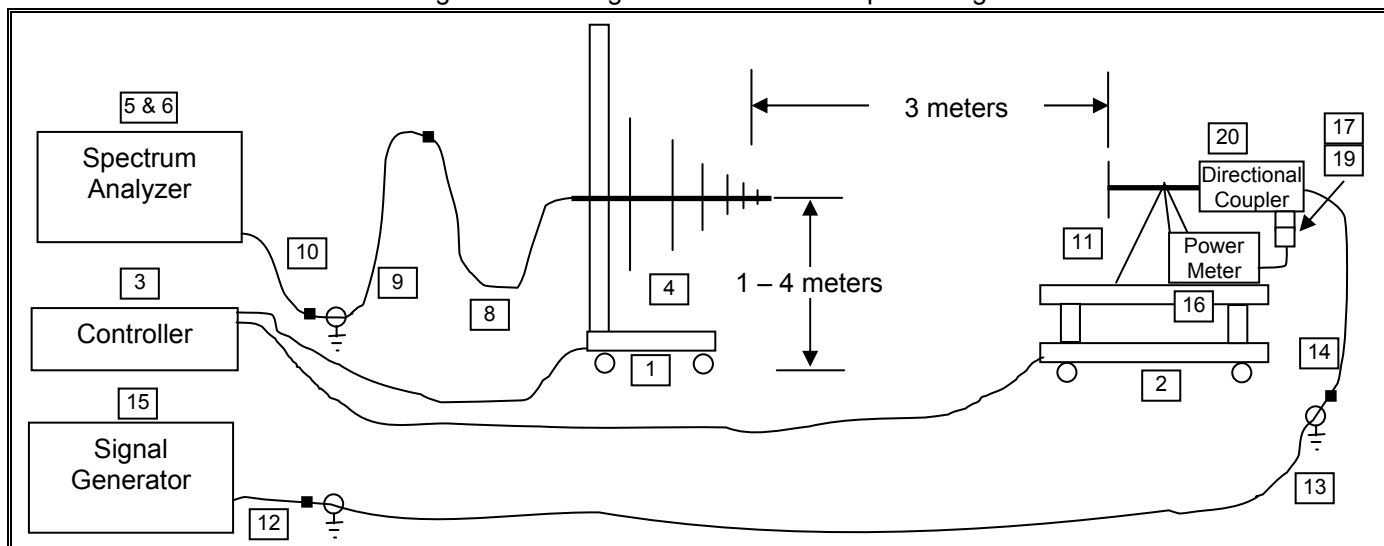




Figure E.6-2 - Signal Substitution Setup Drawing



Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


## E.7. SETUP PHOTOGRAPHS


### Photograph E.7-1 - 3m ERP Test Setup

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## E.8. DUT OPERATING DESCRIPTION

Measurements were made for the low, mid and high CDMA channels transmitting in the cellular band at maximum power levels, and the DUT configured as described in Section 5 of this report.

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX		
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## E.9. ERP TEST RESULTS

		<b>Project Number:</b>	705	<b>Standard:</b>	FCC22.913
		<b>Company:</b>	Palm	<b>Test Start Date:</b>	10-Jan-06
		<b>Product:</b>	Treo XXX	<b>Test End Date:</b>	15-Jan-06


  


Polarity	Distance m	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Carrier Level		ERP Limit		Margin	Pass/Fail
				MHz	dBuV/m	dBuV	dBm	dBd	dBm	Watts	dBm	Watts	dB	
H	3	B_3121C	1013	824.70	116.79	90.50	15.75	-0.84	14.91	0.031	38.45	7.00	23.54	PASS
V	3	B_3121C	1013	824.70	121.79	95.50	24.85	-0.84	24.01	0.251	38.45	7.00	14.44	PASS
H	3	B_3121C	384	836.52	116.99	90.30	16.64	-0.70	15.94	0.039	38.45	7.00	22.51	PASS
V	3	B_3121C	384	836.52	123.29	96.60	26.17	-0.70	25.47	0.352	38.45	7.00	12.98	PASS
H	3	B_3121C	777	848.31	116.76	89.50	16.50	-0.56	15.94	0.039	38.45	7.00	22.51	PASS
V	3	B_3121C	777	848.31	124.46	97.20	26.23	-0.56	25.67	0.369	38.45	7.00	12.78	PASS

Note:  
Dipole Antenna used for substitution

Formulae:  
ERP Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd)  
Margin (dB) = Limit (dBm) – Level (dBm)

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX		
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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 Testing and Engineering Services Lab	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### E.10. PASS/FAIL

In reference to the results outlined in E.9, the DUT passes the requirements as stated in the reference standards as follows:

FCC 22.913 (a) Maximum ERP. .... The ERP of mobile transmitters and auxiliary transmitters must not exceed 7 Watts.

A maximum ERP of +25.67 dBm (0.369 Watts) was measured when Channel 777 was transmitting.

#### E.11. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




Spencer Watson  
Senior Compliance Technologist  
Celltech Labs Inc.

15Jan06

Date

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth				Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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	Test Date(s):	14Dec05 - 18Jan06	Report Issue Date:	February 03, 2006
	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


## Appendix F - Cellular Band Radiated TX Spurious Emissions Measurement


F.1. REFERENCES	
Normative Reference Standard	FCC CFR 47 §22.917(e)
Procedure Reference	ANSI/TIA/EIA-603-C

F.2. LIMITS	
FCC CFR 47 §22.917	(e) Out of Band Emissions. The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency twice or more than twice the fundamental frequency by: at least $43 + 10 \log P$ dB

F.3. ENVIRONMENTAL CONDITIONS	
Temperature	uncontrolled
Humidity	uncontrolled
Barometric Pressure	uncontrolled

F.4. EQUIPMENT LIST						
RECEIVING EQUIPMENT						
ID	ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
1	00072	EMCO	2075	Mini-mast	na	na
2	00073	EMCO	2080	Turn Table	na	na
3	00071	EMCO	2090	Multi-Device Controller	na	na
4	00050	Chase	CBL-6111A	Bilog Antenna	08Feb05	08Feb06
5	00034	ETS	3115	Double Ridged Guide Antenna (Rx)	11Aug05	11Aug06
6	00015	Agilent	E4408B	Spectrum Analyzer	24Jan05	24Jan06
7	00051	HP	8566B	Spectrum Analyzer	12Apr05	12Apr06
8	00047	HP	85685A	Preselector	13Apr05	13Apr06
9	00120	Celltech	n/a	Microwave Cable (RX)	25Mar05	25Mar06
10	00121	Andrew	FSJ4-50B	Microwave Cable (RX)	25Mar05	25Mar06
11	00130	Andrew	FSJ1-50A	Microwave Cable (RX)	25Mar05	25Mar06
12	00115	Miteq	JS4-00102600-35-5A	Low Noise Amplifier	08Jun05	08Jun06
13	00093	Microtronics	HPM50111	High Pass Filter	08Jun05	08Jun06
14	00119	INMAT	18AH-10	10dB attenuator	08Jun05	08Jun06
15	00009	Willtek	4303	Communications Test set	09Jun04	09Jun06

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

ADDITIONAL SUBSTITUTION EQUIPMENT						
ID	ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
16	00059	ETS	3121C	Roberts Dipole	04Dec03	04Dec06
17	00035	ETS	3115	Double Ridged Guide Antenna (Tx)	24Mar04	24Mar06
18	00131	Andrew	FSJ1-50A	Microwave Cable (TX)	na	na
19	00127	Andrew	FSJ4-50B	Microwave Cable (TX)	na	na
20	00133	Andrew	FSJ1-50A	Microwave Cable (TX)	na	na
21	00006	R & S	SMR-20	Signal Generator	12Apr05	12Apr06
22	00110	Gigatronics	8652A	Power Meter	16Apr05	16Apr06
23	00012	Gigatronics	80701A	Power Sensor	12Sep05	12Sep06
24	00014	Gigatronics	80701A	Power Sensor	07Sep05	07Sep06
25	00102	Pasternack	PE7015-3110	30 dB attenuator	na*	na*
26	00078	Pasternack	PE2214-20	Directional Coupler	na*	na*
27	00142	HP	8491A	20 dB attenuator	na*	na*

\* Attenuation offset in power meter setup

F.5. MEASUREMENT EQUIPMENT SETUP					
MEASUREMENT EQUIPMENT CONNECTIONS	The measurement equipment was connected as shown in F.6. A number of measurement equipment configurations were used to cover the applicable frequency ranges. The configurations for each range are as follows:				
	Frequency Range	LNA Asset #	Filter/Attenuator Asset #	Rx Antenna Asset #	Tx Antenna Asset #
	30 MHz – 1 GHz	none	none	00050	00059
	1 GHz – 2 GHz	none	none	00034	00035
	2 GHz – 3 GHz	00115	00119	00034	00035
	3 GHz – 10 GHz	00115	00093	00034	00035
MEASUREMENT EQUIPMENT SETTINGS	The spectrum analyzer was set to the following settings:				
	Frequency Range		RBW	VBW	Detector
	MHz		kHz	kHz	
	800 MHz – 10 GHz		100*	100*	Peak

\*Field strength measurements were made with a worse case RBW and VBW of 1 MHz for frequency bands above 1 GHz when adequate margins were attained.

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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## F.6. SETUP DRAWING

Figure F.6-1 - Field Strength Setup Drawing

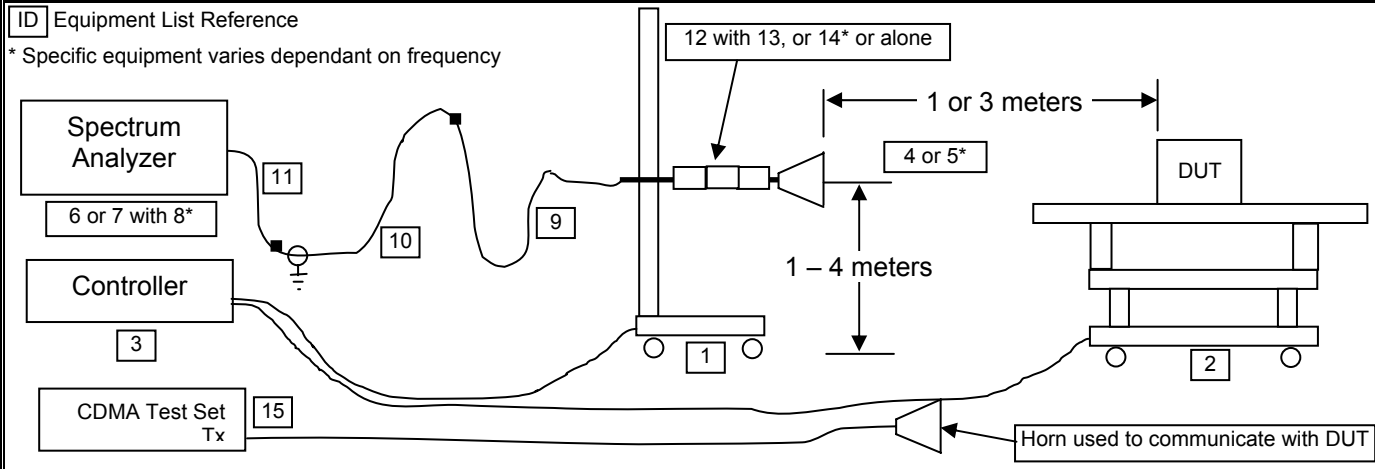
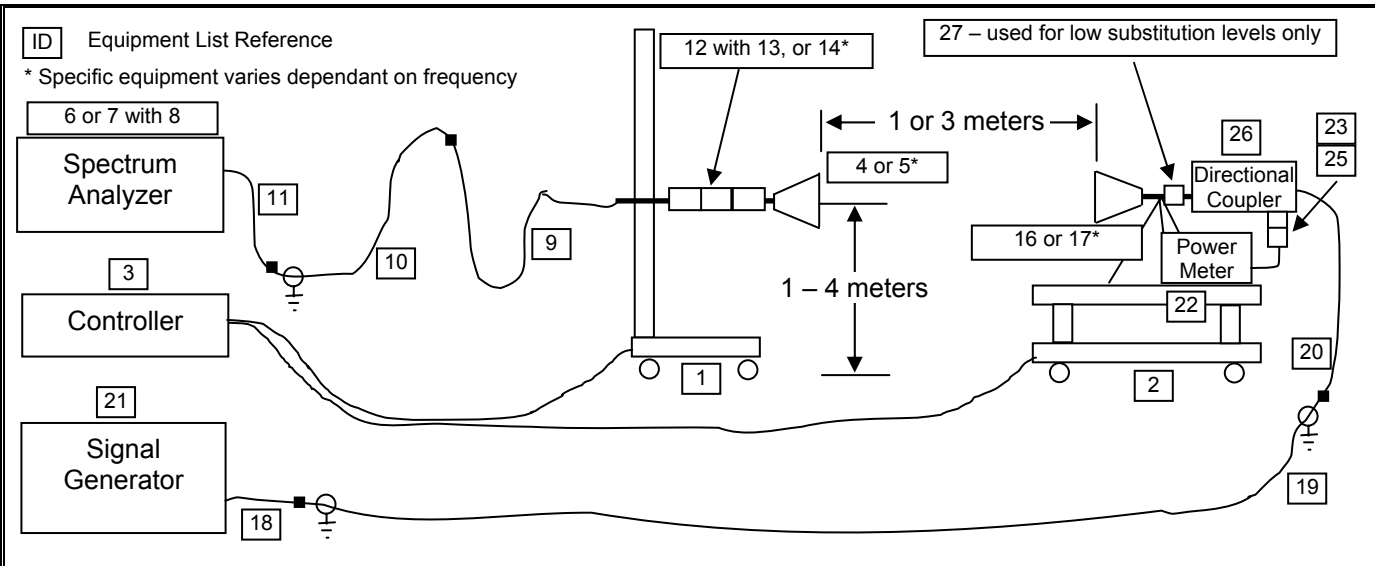



Figure F.6-2 - Signal Substitution Setup Drawing





 Testing and Engineering Services Lab	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## F.7. SETUP PHOTOGRAPHS

Photograph F.7-1 - 3m Bilog Setup

Photograph F.7-2 - 3m Horn Setup

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Photograph F.7-3 - 1m Horn/LNA Setup

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## F.8. DUT OPERATING DESCRIPTION

Measurements were made for the low, mid and high CDMA channels transmitting in the cellular band at maximum power levels as described in Section 5 of this report. The conducted transmit spurious emissions supplementary measurements are described in Appendix D.

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Date(s):</b> 14Dec05 - 18Jan06		<b>Report Issue Date:</b> February 03, 2006	
	<b>Test Standard(s):</b> FCC 47 CFR §2, §22H, §24E		IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b> FCC Registration No.: 714830		Industry Canada Lab File No.: 3874	

## F.9. TEST RESULTS

### Channel 1013



**Project Number:** 705  
**Company:** Palm  
**Product:** Treo XXX

**Standard:** FCC22.917  
**Test Start Date:** 10-Jan-06  
**Test End Date:** 15-Jan-06

Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Detector	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fail
	m			MHz	dBuV/m		dBuV	dBm	dBd	dBm	dBm or dBuV/m*	dB	
H	3	none	1013	1649.26	64.72	PK*					84.4*	19.7*	PASS*
H	3	none	1013	2474.01	46.58	PK*					84.4*	37.8*	PASS*
H	3	none	1013	3298.44	44.51	PK*					84.4*	39.9*	PASS*
H	3	none	1013	4125.00	42.86	PK*					84.4*	41.5*	PASS*
H	3	none	1013	4945.72	44.19	PK*					84.4*	40.2*	PASS*
H	3	none	1013	5772.83	45.22	PK*					84.4*	39.2*	PASS*
H	3	none	1013	6596.03	53.87	PK*					84.4*	30.5*	PASS*
H	1	none	1013	7423.67	49.22	PK*					93.9*	44.7*	PASS*
H	1	none	1013	8248.18	51.02	PK*					93.9*	42.9*	PASS*
V	3	none	1013	1648.58	63.71	PK*					84.4*	20.7*	PASS*
V	3	none	1013	2473.42	47.48	PK*					84.4*	36.9*	PASS*
V	3	none	1013	3300.32	44.82	PK*					84.4*	39.6*	PASS*
V	3	none	1013	4122.01	43.23	PK*					84.4*	41.1*	PASS*
V	3	none	1013	4946.17	44.49	PK*					84.4*	39.9*	PASS*
V	3	none	1013	5771.85	45.92	PK*					84.4*	38.4*	PASS*
V	3	none	1013	6600.12	53.07	PK*					84.4*	31.3*	PASS*
V	1	none	1013	7422.67	49.85	PK*					93.9*	44.1*	PASS*
V	1	none	1013	8251.13	50.64	PK*					93.9*	43.3*	PASS*

PK\* - measurement made with a peak detector and applied to an average limit.

Pass\* - Margin and Pass/Fail based on measured field strengths applied against a theoretical field strength limit.

#### Note:


The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with peak field strengths within 20 dB of the theoretical limit. All other emissions attributed to the DUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.


#### Formulae:


ERP Emission Level (dBm) = Power applied to antenna (dBm) + Antenna Gain (dBd)


Margin (dB) = Limit (dBm) – ERP Emission Level (dBm) or Theoretical Limit (dBuV/m) – Corrected Field Strength (dBuV/m)


Theoretical Limit (V/m) =  $\sqrt{30 \cdot P / r^2}$  where P is the total transmitted power (W), r is measurement distance (m)


Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


Channel 384													
		Project Number:		705		Standard:		FCC22.917					
		Company:		Palm		Test Start Date:		10-Jan-06					
		Product:		Treo XXX		Test End Date:		15-Jan-06					
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Detector	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fail
	m			MHz	dBuV/m		dBuV	dBm	dBd	dBm	dBm or dBuV/m*	dB	
H	3	none	384	817.37	48.72	PK*					84.4*	35.7*	PASS*
H	3	none	384	1672.47	57.34	PK*					84.4*	27.0*	PASS*
H	3	none	384	1927.28	48.74	PK*					84.4*	35.6*	PASS*
H	3	none	384	2511.70	47.31	PK*					84.4*	37.1*	PASS*
H	3	none	384	3344.46	45.46	PK*					84.4*	38.9*	PASS*
H	3	none	384	4181.80	42.99	PK*					84.4*	41.4*	PASS*
H	3	none	384	5016.54	45.28	PK*					84.4*	39.1*	PASS*
H	3	none	384	5859.78	52.07	PK*					84.4*	32.3*	PASS*
H	3	none	384	6689.43	53.09	PK*					84.4*	31.3*	PASS*
H	1	none	384	7530.66	49.69	PK*					93.9*	44.2*	PASS*
H	1	none	384	8365.93	50.02	PK*					93.9*	43.9*	PASS*
V	3	none	384	817.40	52.11	PK*					84.4*	32.3*	PASS*
V	3	none	384	1672.52	57.84	PK*					84.4*	26.5*	PASS*
V	3	none	384	2510.19	47.31	PK*					84.4*	37.1*	PASS*
V	3	none	384	3346.21	45.16	PK*					84.4*	39.2*	PASS*
V	3	none	384	4180.63	44.59	PK*					84.4*	39.8*	PASS*
V	3	none	384	5023.54	44.52	PK*					84.4*	39.9*	PASS*
V	3	none	384	5851.56	51.48	PK*					84.4*	32.9*	PASS*
V	3	none	384	6689.43	53.09	PK*					84.4*	31.3*	PASS*
V	1	none	384	7529.16	49.36	PK*					93.9*	44.6*	PASS*
V	1	none	384	8366.50	50.53	PK*					93.9*	43.4*	PASS*
PK* - measurement made with a peak detector and applied to an average limit. Pass* - Margin and Pass/Fail based on measured field strengths applied against a theoretical field strength limit.  Note: The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with peak field strengths within 20 dB of the theoretical limit. All other emissions attributed to the DUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.  Formulae: ERP Emission Level (dBm) = Power applied to antenna (dBm) + Antenna Gain (dBd) Margin (dB) = Limit (dBm) – ERP Emission Level (dBm) or Theoretical Limit (dBuV/m) – Corrected Field Strength (dBuV/m) Theoretical Limit (V/m) = SQRT(30 * P / r <sup>2</sup> ) where P is the total transmitted power (W), r is measurement distance (m)													

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

Channel 777													
		<b>Project Number:</b> 705				<b>Standard:</b> FCC22.917							
		<b>Company:</b> Palm				<b>Test Start Date:</b> 10-Jan-06							
		<b>Product:</b> Treo XXX				<b>Test End Date:</b> 15-Jan-06							
Polarity	Distance m	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Detector	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fail
				MHz	dBuV/m		dBuV	dBm	dBd	dBm	dBm or dBuV/m*	dB	
H	3	none	777	1696.01	60.61	PK*					84.4*	23.8*	PASS*
H	3	none	777	2542.41	47.49	PK*					84.4*	36.9*	PASS*
H	3	none	777	3392.95	47.42	PK*					84.4*	37.0*	PASS*
H	3	none	777	4242.76	42.70	PK*					84.4*	41.7*	PASS*
H	3	none	777	5087.17	44.65	PK*					84.4*	39.7*	PASS*
H	3	none	777	5937.78	52.19	PK*					84.4*	32.2*	PASS*
H	3	none	777	6785.39	53.18	PK*					84.4*	31.2*	PASS*
H	1	none	777	7633.97	49.05	PK*					93.9*	44.9*	PASS*
H	1	none	777	8479.95	51.12	PK*					93.9*	42.8*	PASS*
V	3	none	777	829.19	60.19	PK*					84.4*	24.2*	PASS*
V	3	none	777	1696.43	59.71	PK*					84.4*	24.7*	PASS*
V	3	none	777	2545.27	47.60	PK*					84.4*	36.8*	PASS*
V	3	none	777	3392.09	46.42	PK*					84.4*	38.0*	PASS*
V	3	none	777	4240.59	44.99	PK*					84.4*	39.4*	PASS*
V	3	none	777	5094.09	44.72	PK*					84.4*	39.6*	PASS*
V	3	none	777	5940.22	52.50	PK*					84.4*	31.9*	PASS*
V	3	none	777	6782.17	52.60	PK*					84.4*	31.8*	PASS*
V	1	none	777	7637.57	49.52	PK*					93.9*	44.4*	PASS*
V	1	none	777	8478.55	50.59	PK*					93.9*	43.3*	PASS*
PK* - measurement made with a peak detector and applied to an average limit. Pass* - Margin and Pass/Fail based on measured field strengths applied against a theoretical field strength limit.  Note: The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with peak field strengths within 20 dB of the theoretical limit. All other emissions attributed to the DUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.  Formulae: ERP Emission Level (dBm) = Power applied to antenna (dBm) + Antenna Gain (dBd) Margin (dB) = Limit (dBm) – ERP Emission Level (dBm) or Theoretical Limit (dBuV/m) – Corrected Field Strength (dBuV/m) Theoretical Limit (V/m) = SQRT(30 * P / r <sup>2</sup> ) where P is the total transmitted power (W), r is measurement distance (m)													

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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 Testing and Engineering Services Lab	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### F.10. PASS/FAIL

In reference to the results outlined in F.9, the DUT passes the requirements as stated in the reference standards.

(e) Out of Band Emissions. The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency twice or more than twice the fundamental frequency by: at least  $43 + 10 \log P$  dB

The results set forth in this section meet the requirement with a peak to average field strength margin of at least 19.7 dB

#### F.11. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




Spencer Watson  
Senior Compliance Technologist  
Celltech Labs Inc.

15Jan06

Date

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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 Testing and Engineering Services Lab	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix G - PCS Band Conducted TX RF Output Power Measurement

### G.1. REFERENCES

<b>Normative Reference Standard</b>	FCC CFR 47 §2.1046
<b>Procedure Reference</b>	FCC CFR 47 §2.1046

### G.2. LIMITS

FCC CFR 47 §2.1046 (a)	For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedures to give the values of current and voltage on the circuit elements specified in §2.1033(c) (8).
*EIRP limits are specified in Appendix J.	


### G.3. ENVIRONMENTAL CONDITIONS


<b>Temperature</b>	25 ± 5 °C
<b>Humidity</b>	35 ± 5 %RH
<b>Barometric Pressure</b>	uncontrolled

### G.4. EQUIPMENT LIST

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00008	Gigatronics	8652A	Power Meter	29Apr05	29Apr06
00014	Gigatronics	80701A	Power Sensor	07Sep05	07Sep06
00114	AR	DC7154	Directional coupler	na	na*
Customer Supplied	Palm	na	Cable & SMA adapter	na	na*
00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06

\* Attenuation offset in power meter setup

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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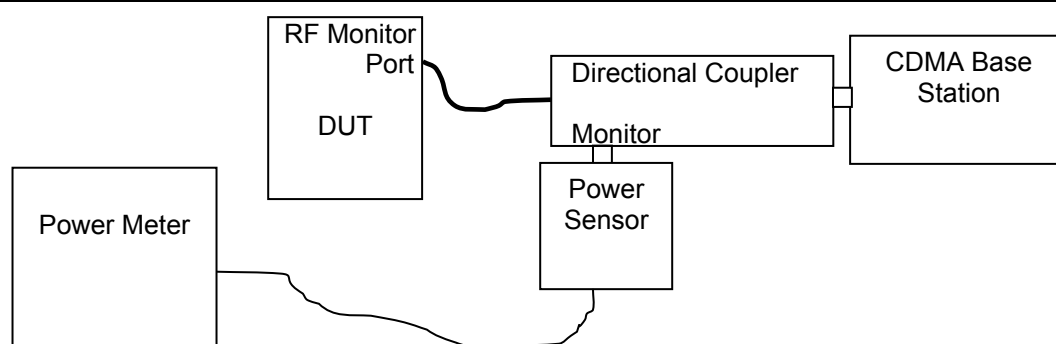
	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### G.5. MEASUREMENT EQUIPMENT SETUP

<b>Measurement Equipment Connections</b>	The equipment was connected as shown in the setup drawing in G.6.
<b>Measurement Equipment Settings</b>	Mode - MAP Offset - set to include loss through cable and directional coupler.
<b>Measurement Procedure</b>	The channel was set on the base station and the resulting power measurement recorded and reported herein.


#### G.6. SETUP DRAWING


Figure G.6-1 - Setup Drawing



#### G.7. DUT OPERATING DESCRIPTION

Power measurements were made for each of the three PCS test channels (Channel 25, 600 & 1175), with the Treo XXX phone set appropriately as described in section 5.7.

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth				Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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 Testing and Engineering Services Lab	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### G.8. TEST RESULTS

Mode	Channel	Frequency	EBW	Conducted Power	
		MHz	MHz	dBm	watts
PCS CDMA	25	1851.25	1.42	+23.8	0.240
	600	1880.00	1.43	+24.7	0.295
	1175	1909.75	1.42	+24.0	0.251

#### G.9. PASS/FAIL

There is no pass/fail criterion for this measurement. The EIRP values, applied to appropriate regulatory requirements are outlined in Appendix J.

#### G.10. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




Sean Johnston  
Compliance Technologist  
Celltech Labs Inc.

14Dec05

Date

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	Test Report Serial No.:	121405O8F-T705-E24C	Report Issue No.:	E705C-020306-R0
	Test Date(s):	14Dec05 - 18Jan06	Report Issue Date:	February 03, 2006
	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix H - PCS Band Occupied Bandwidth Measurement

H.1. REFERENCES	
Normative Reference Standard	FCC CFR 47 §2.1049
Procedure Reference	FCC CFR 47 §2.1049


H.2. LIMITS	
FCC CFR 47 §2.202	Applicable Emission designator: 1M25F9W therefore: Theoretical OBW=1.25 MHz

H.3. ENVIRONMENTAL CONDITIONS	
Temperature	25 ± 5 °C
Humidity	35 ± 5 %RH
Barometric Pressure	uncontrolled

H.4. EQUIPMENT LIST					
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00015	Agilent	E4408B	Spectrum Analyzer	24Jan05	24Jan06
00102	Pasternack	PE7015-3010	30dB attenuator	na	na*
00079	Pasternack	PE2208-6	Directional coupler	na	na*
Customer Supplied	Palm	na	Cable & SMA adapter	na	na*
00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06

\* Verified with power meter prior to use

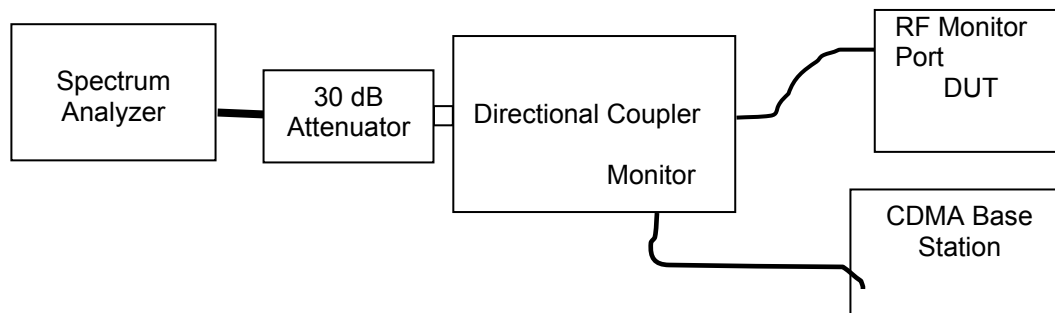
H.5. MEASUREMENT EQUIPMENT SETUP				
MEASUREMENT EQUIPMENT CONNECTIONS	The measurement equipment was connected as shown in H.6.			
MEASUREMENT EQUIPMENT SETTINGS	The spectrum analyzer was set to the following settings:			
	RBW	VBW	Detector	
	kHz	kHz		
	30	30	Sample	

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## H.6. SETUP DRAWING

Figure H.6-1 - Setup Drawing

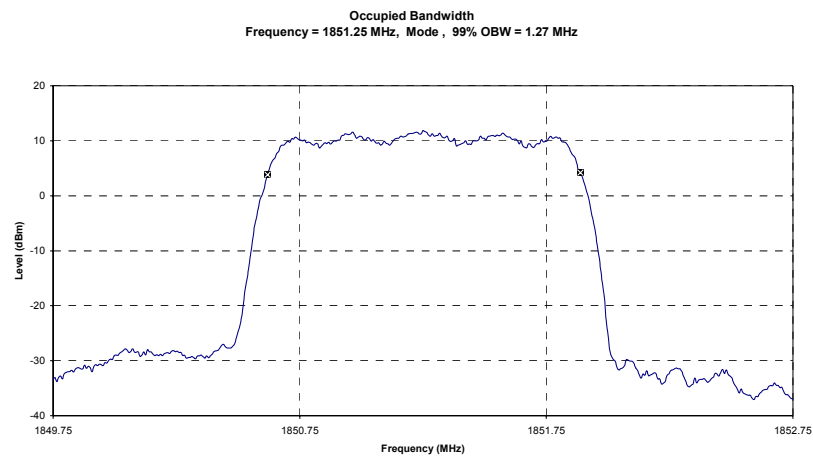


## H.7. DUT OPERATING DESCRIPTION

Measurements were made with the DUT transmitting at maximum power in the PCS band, in a configuration as described in Section 5 of this report.

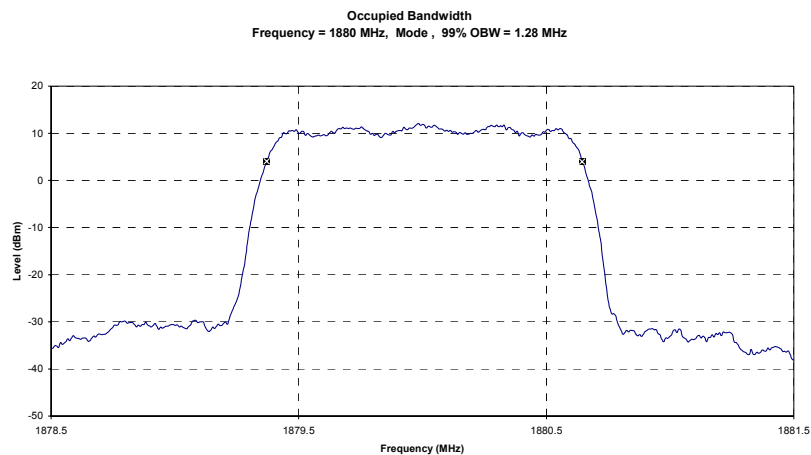
## H.8. TEST RESULTS

Channel 25 (1851.25 MHz)

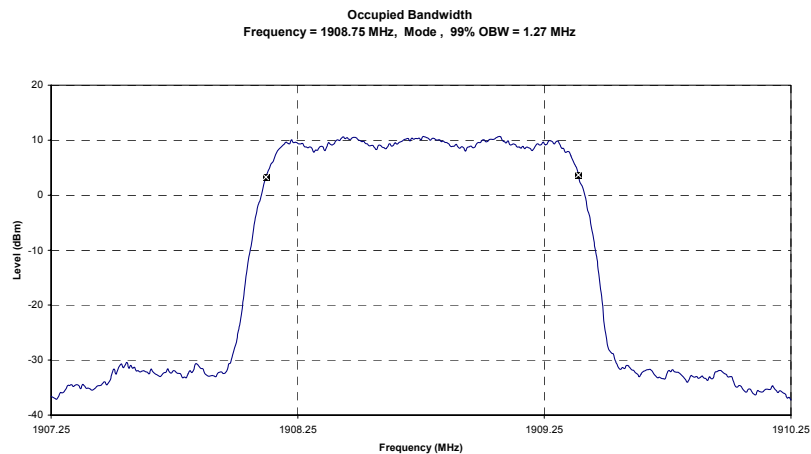


<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

### Channel 600 (1880 MHz)




### Channel 1175 (1908.75 MHz)



### Summary

	Channel	Frequency	OBW	
		MHz	MHz	
	25	1851.25	1.27	
	600	1880.00	1.28	
	1175	1908.75	1.27	

	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### H.9. PASS/FAIL

In reference to the theoretical bandwidth of 1.25 MHz associated with the published Emission designator 1M25F9W, the maximum occupied bandwidth measured exceeds this by 2.4%

#### H.10. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




Duane. M. Friesen  
EMC Manager  
Celltech Labs Inc.

15Jan06

Date

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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 Testing and Engineering Services Lab	Test Report Serial No.:	121405O8F-T705-E24C	Report Issue No.:	E705C-020306-R0
	Test Date(s):	14Dec05 - 18Jan06	Report Issue Date:	February 03, 2006
	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix I - PCS Band Conducted TX Spurious Emissions Measurement


I.1. REFERENCES	
Normative Reference Standard	FCC CFR 47 §24.238(a)
Procedure Reference	FCC CFR 47 §24.238(b)


I.2. LIMITS	
FCC CFR 47 §24.238	(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

I.3. ENVIRONMENTAL CONDITIONS	
Temperature	$25 \pm 5$ °C
Humidity	$35 \pm 5$ %RH
Barometric Pressure	uncontrolled

I.4. EQUIPMENT LIST					
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00015	Agilent	E4408B	Spectrum Analyzer	24Jan05	24Jan06
00102	Pasternack	PE7014-30	30dB attenuator	na	na*
00079	Pasternack	PE2208-6	Directional coupler	na	na*
Customer Supplied	Palm	na	Cable & SMA adapter	na	na*
00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06

\* Verified with power meter prior to use

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

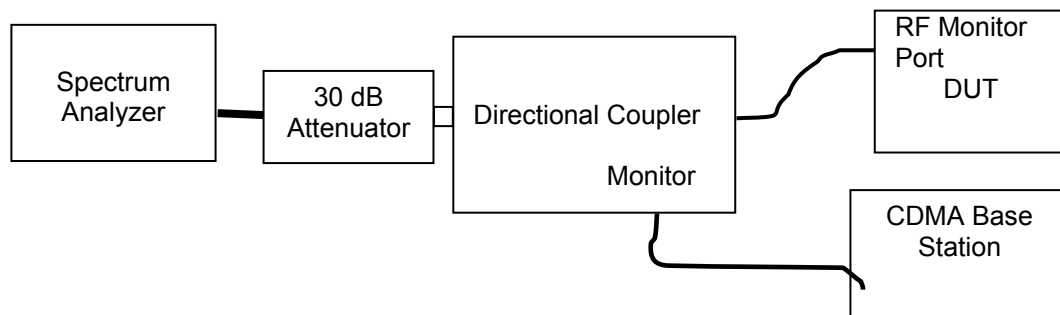
## I.5. MEASUREMENT EQUIPMENT SETUP

<b>MEASUREMENT EQUIPMENT CONNECTIONS</b>	The measurement equipment was connected as shown in I.6.				
<b>MEASUREMENT EQUIPMENT SETTINGS</b>	The spectrum analyzer was set to the following settings:				
	Frequency Range	Measurement		Specified BW*	Detector
		RBW	VBW		
	MHz	kHz	kHz	kHz	Sample
	At Block edges	10	10	1% EBW	
	Within 1 MHz of the Block edges	10	10	1% EBW	
	1MHz and 40 MHz from Block edges	10	10	1000	
	Beyond 40MHz from Block edges	1000	1000	1000	Peak

Measured data corrected for specified BW using  $10 \cdot \log(\text{measurement RBW} / \text{specified BW})$


## I.6. SETUP DRAWING

Figure I.6-1 - Setup Drawing



## I.7. DUT OPERATING DESCRIPTION

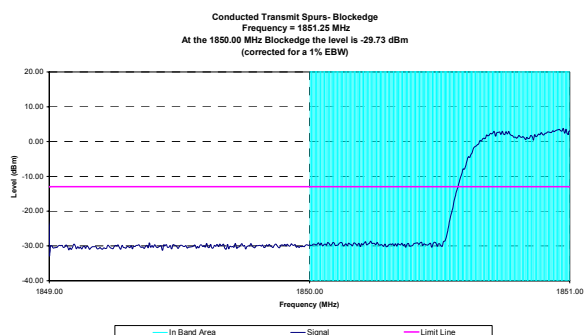
Measurements were made with the DUT transmitting at maximum power in the PCS band, in a configuration as described in Section 5 of this report. The Block edge measurements were made with the DUT transmitting on the channel closest to the edge under investigation (CH25 & CH1175). The remaining spurious measurements were made on each of the three channels, Low (CH25), Mid (CH600) and High (CH1175).

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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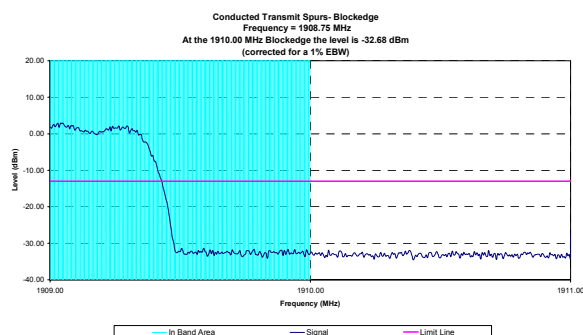
## I.8. TEST RESULTS

### I.8.1. Spurious Emissions within 1MHz of Block Edge

#### Lower Block Edge - 1850 MHz

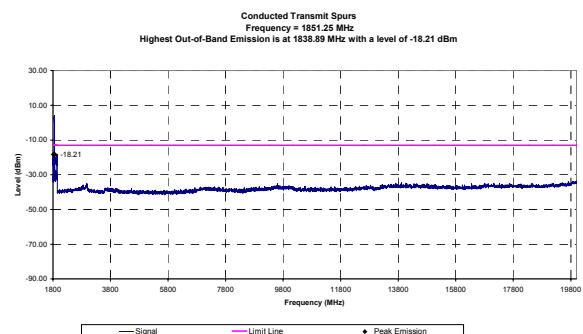
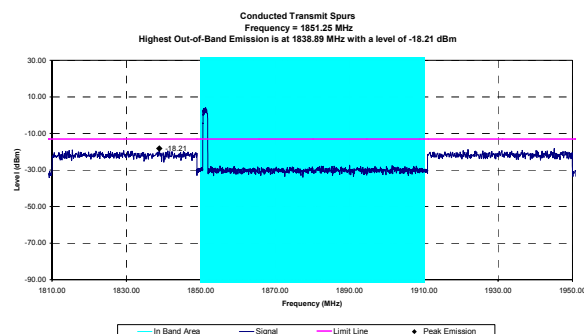


#### Upper Block Edge - 1910 MHz

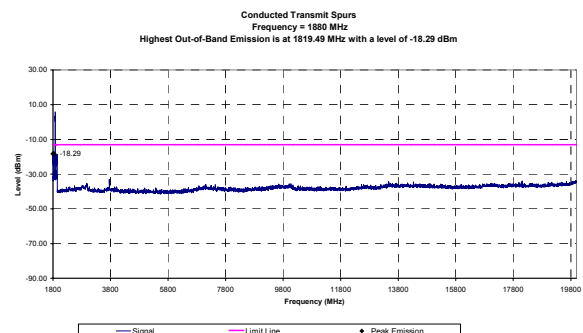
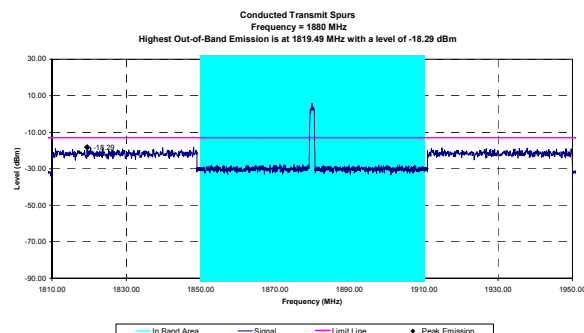


### I.8.2. Spurious Emissions removed by more than 1MHz from Block Edge

#### Channel 25

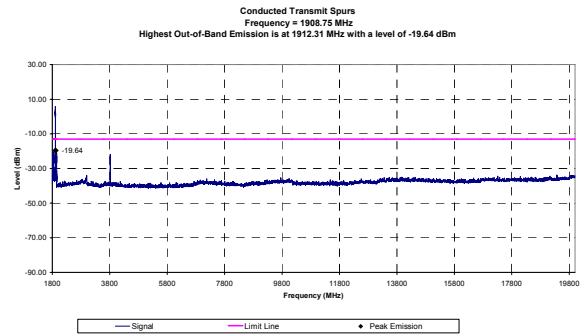
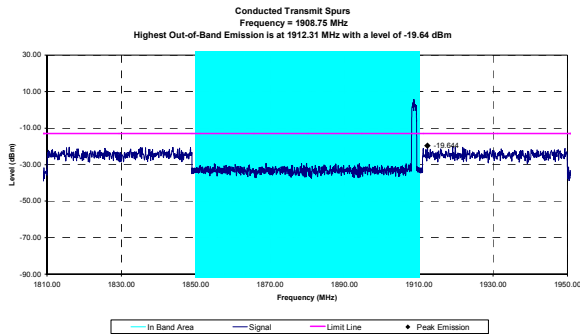


#### Channel 600



<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

### Channel 1175




Channel	Peak Spurious Emission				Limit	Margin	Pass / Fail
	Frequency	Measured Level	Total Correction	Level			
	MHz	dBm	dB	dBm	dBm	dB	
25	1838.89	-58.44	40.23	-18.21	-13.00	5.21	Pass
600	1819.49	-58.51	40.23	-18.29	-13.00	5.29	Pass
1175	1912.31	-59.89	40.25	-19.64	-13.00	6.64	Pass

#### Formulae:

Total Correction (dB) = BW correction (dB) + CL (dB)


BW Correction (dB) =  $10 \cdot \log(BW_1/BW_2)$  where:  $BW_1$  is the measurement RBW and  $BW_2$  is the Limit BW\*

\*Limit BW = 1% of the EBW for in-band +/- 1 MHz, 1000 kHz for other.

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

### I.9. PASS/FAIL

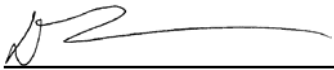
In reference to the results outlined in I.8, the DUT passes the requirements as stated in the reference standards.

FCC CFR 4 §24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

The results set forth in this section meet the requirement with a margin of at least 5.21 dB  
(-18.21 dBm @ 1838.89 vs a limit of -13 dBm with Channel 25 transmitting)

### I.10. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




Duane M. Friesen  
EMC Manager  
Celltech Labs Inc.

15Jan06

Date

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	Test Date(s):	14Dec05 - 18Jan06	Report Issue Date:	February 03, 2006
	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix J - PCS Band Effective Isotropic Radiated Power Measurement


J.1. REFERENCES	
Normative Reference Standard	FCC CFR 47 §24.232(b)
Procedure Reference	ANSI/TIA/EIA-603-C


J.2. LIMITS	
FCC CFR 47 §24.232 (b)	(b) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

J.3. ENVIRONMENTAL CONDITIONS	
Temperature	uncontrolled
Humidity	uncontrolled
Barometric Pressure	uncontrolled

J.4. EQUIPMENT LIST						
RECEIVING EQUIPMENT						
ID	ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
1	00072	EMCO	2075	Mini-mast	na	na
2	00073	EMCO	2080	Turn Table	na	na
3	00071	EMCO	2090	Multi-Device Controller	na	na
4	00034	ETS	3115	Double Ridged Guide Antenna (Rx)	11Aug05	11Aug06
5	00051	HP	8566B	Spectrum Analyzer	12Apr05	12Apr06
6	00047	HP	85685A	Preselector	13Apr05	13Apr06
7	00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06
8	00120	Celltech	n/a	Microwave Cable (RX)	25Mar05	25Mar06
9	00121	Andrew	FSJ4-50B	Microwave Cable (RX)	25Mar05	25Mar06
10	00130	Andrew	FSJ1-50A	Microwave Cable (RX)	25Mar05	25Mar06
ADDITIONAL SUBSTITUTION EQUIPMENT						
ID	ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
11	00035	ETS	3115	Horn Antenna (Tx)	24Mar04	24Mar06
12	00131	Andrew	FSJ1-50A	Microwave Cable (TX)	na	na
13	00127	Andrew	FSJ4-50B	Microwave Cable (TX)	na	na
14	00133	Andrew	FSJ1-50A	Microwave Cable (TX)	na	na
15	00006	R & S	SMR40	Signal Generator	12Apr05	12Apr06
16	00110	Gigatronics	8652A	Power Meter	16Apr05	16Apr06
17	00012	Gigatronics	80701A	Power Sensor	12Sep05	12Sep06
18	00014	Gigatronics	80701A	Power Sensor	7Sep05	07Sep06
19	00102	Pasternack	PE7015-3110	30 dB attenuator	na*	na*
20	00078	Pasternack	PE2214-20	Directional Coupler	na*	na*

\*Attenuation offset in power meter setup

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX		
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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	Test Report Serial No.:	121405O8F-T705-E24C	Report Issue No.:	E705C-020306-R0
	Test Date(s):	14Dec05 - 18Jan06	Report Issue Date:	February 03, 2006
	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## J.5. MEASUREMENT EQUIPMENT SETUP

### MEASUREMENT EQUIPMENT CONNECTIONS

The measurement equipment was connected as shown in J.6.

### MEASUREMENT EQUIPMENT SETTINGS

The spectrum analyzer was set to the following settings:

Frequency Range	RBW	VBW	Detector
MHz	MHz	MHz	
1000 - 2000	1	1	

## J.6. SETUP DRAWING

Figure J.6-1 - Field Strength Setup Drawing

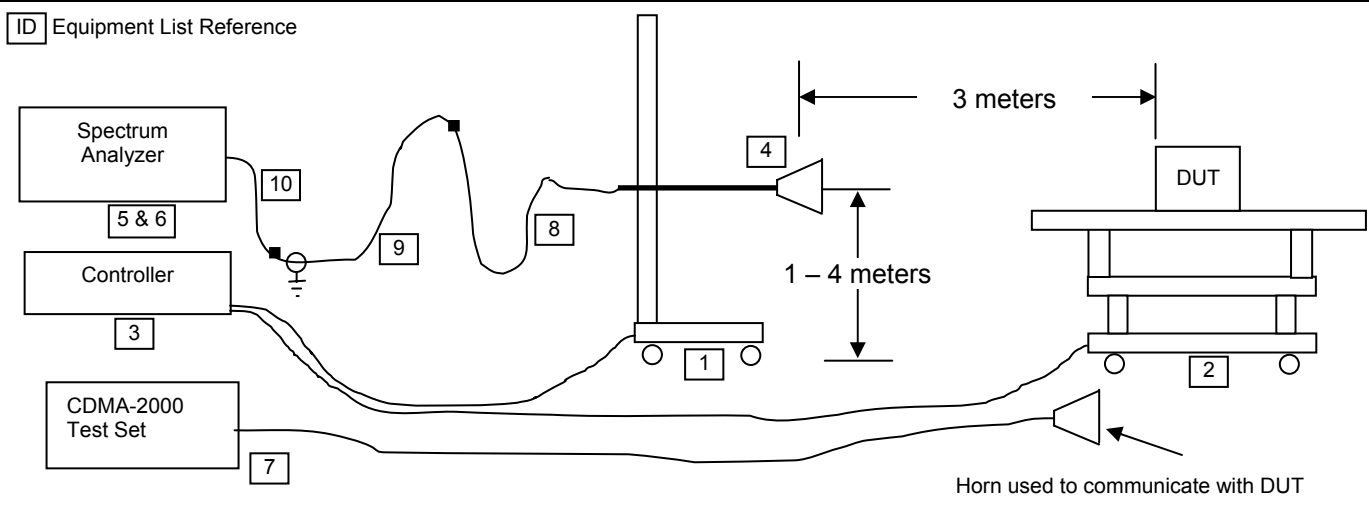
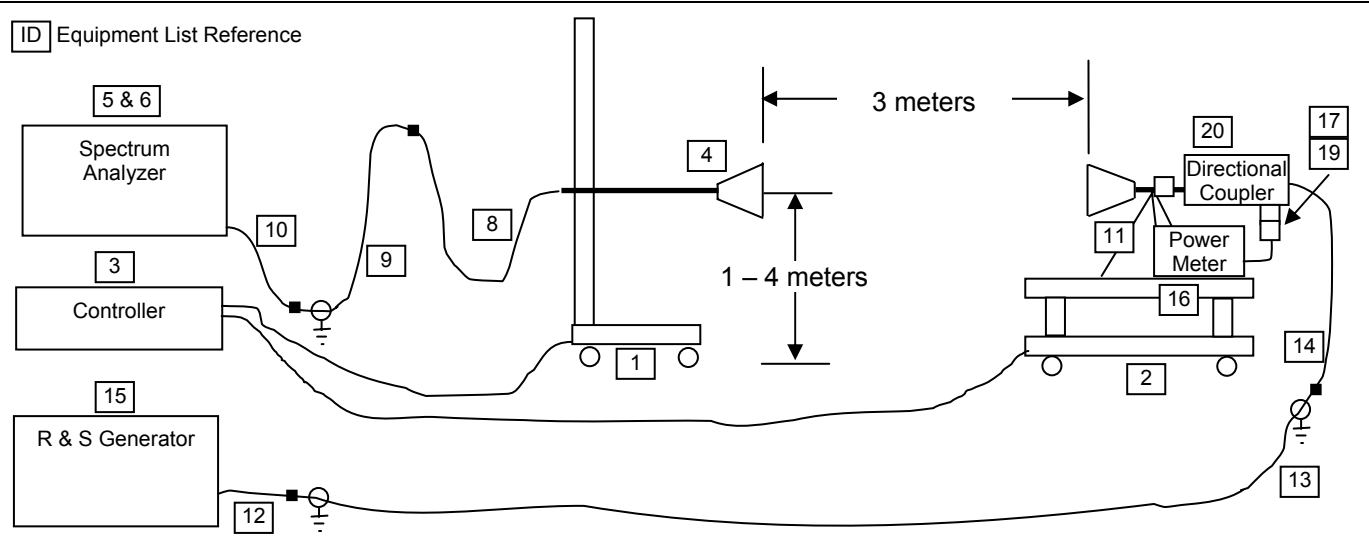




Figure J.6-2 - Substitution Setup Drawing



Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


#### J.7. SETUP PHOTOGRAPHS


Photograph J.7-1 - 3m EIRP Test Setup

Intentionally Blank


#### J.8. DUT OPERATING DESCRIPTION

Measurements were made for the low, mid and high CDMA channels transmitting in the PCS band at maximum power levels, and the DUT configured as described in Section 5 of this report.

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>		
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>		
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	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## J.9. EIRP TEST RESULTS

		<b>Project Number:</b>	705	<b>Standard:</b>	FCC24.232b
		<b>Company:</b>	Palm	<b>Test Start Date:</b>	10-Jan-06
		<b>Product:</b>	Treo XXX	<b>Test End Date:</b>	15-Jan-06


  


Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	EIRP Carrier Level		EIRP Limit		Margin	Pass/Fail
	m			MHz	dBuV/m	dBuV	dBm	dB	dBm	Watts	dBm	Watts	dB	
H	3	Horn SN6276	25	1851.25	120.51	87.70	14.42	6.67	21.09	0.129	33.01	2.00	11.92	PASS
V	3	Horn SN6276	25	1851.25	122.01	89.20	16.41	6.67	23.08	0.203	33.01	2.00	9.93	PASS
H	3	Horn SN6276	600	1880.00	123.07	90.10	17.38	6.68	24.06	0.254	33.01	2.00	8.95	PASS
V	3	Horn SN6276	600	1880.00	120.97	88.00	15.75	6.68	22.43	0.175	33.01	2.00	10.58	PASS
H	3	Horn SN6276	1175	1908.75	119.23	86.10	14.63	6.68	21.31	0.135	33.01	2.00	11.70	PASS
V	3	Horn SN6276	1175	1908.75	119.33	86.20	14.82	6.68	21.50	0.141	33.01	2.00	11.51	PASS

**Note:**  
Double Ridged Guide Antenna used for substitution

**Formulae:**  
EIRP Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBi)  
Margin (dB) = Limit (dBm) – Level (dBm)

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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 Testing and Engineering Services Lab	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### J.10. PASS/FAIL

In reference to the results outlined in J.9, the DUT passes the requirements as stated in the reference standards as follows:

FCC 24.232 (b) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.....

A maximum EIRP of +24.06 dBm (0.254 Watts) was measured when Channel 600 was transmitting.

#### J.11. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




Spencer Watson  
Senior Compliance Technologist  
Celltech Labs Inc.

15Jan06

Date

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	Test Report Serial No.:	121405O8F-T705-E24C	Report Issue No.:	E705C-020306-R0
	Test Date(s):	14Dec05 - 18Jan06	Report Issue Date:	February 03, 2006
	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	


## Appendix K - PCS Band Radiated TX Spurious Emissions Measurement


K.1. REFERENCES	
Normative Reference Standard	FCC CFR 47 §24.238(a)
Procedure Reference	ANSI/TIA/EIA-603-C

K.2. LIMITS	
FCC CFR 47 §24.238	(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

K.3. ENVIRONMENTAL CONDITIONS	
Temperature	uncontrolled
Humidity	uncontrolled
Barometric Pressure	uncontrolled

K.4. EQUIPMENT LIST						
RECEIVING EQUIPMENT						
ID	ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
1	00072	EMCO	2075	Mini-mast	na	na
2	00073	EMCO	2080	Turn Table	na	na
3	00071	EMCO	2090	Multi-Device Controller	na	na
4	00035	ETS	3115	Double Ridged Guide Antenna (Rx)	24Mar04	24Mar06
5	00161/00166	Waveline	899/801-KF	Standard Gain Horn Antenna (Rx)	n/a	n/a
6	00015	HP	E4408B	Spectrum Analyzer	24Jan05	24Jan06
7	00051	HP	8566B	Spectrum Analyzer	12Apr05	12Apr06
8	00047	HP	85685A	Preselector	13Apr05	13Apr06
9	00120	Celltech	n/a	Microwave Cable (RX)	25Mar05	25Mar06
10	00121	Andrew	FSJ4-50B	Microwave Cable (RX)	25Mar05	25Mar06
11	00130	Andrew	FSJ1-50A	Microwave Cable (RX)	25Mar05	25Mar06
12	00115	Miteq	JS4-00102600-35-5A	Low Noise Amplifier	08Jun05	08Jun06
13	00093	Microtronics	HPM50111	High Pass Filter	08Jun05	08Jun06
14	00119	INMAT	18AH-10	10dB attenuator	08Jun05	08Jun06
15	00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

ADDITIONAL SUBSTITUTION EQUIPMENT						
ID	ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
16	00034	ETS	3115	Horn Antenna (Tx)	24Mar04	24Mar06
17	00162/00165	Waveline	899/801-KF	Standard Gain Horn Antenna (Tx)	na	na
18	00131	Andrew	FSJ1-50A	Microwave Cable (TX)	na	na
19	00127	Andrew	FSJ4-50B	Microwave Cable (TX)	na	na
20	00133	Andrew	FSJ1-50A	Microwave Cable (TX)	na	na
21	00006	R & S	SMR-20	Signal Generator	12Apr05	12Apr06
22	00110	Gigatronics	8652A	Power Meter	16Apr05	16Apr06
23	00012	Gigatronics	80701A	Power Sensor	12Sep05	12Sep06
24	00014	Gigatronics	80701A	Power Sensor	07Sep05	07Sep06
25	00102	Pasternack	PE7015-3110	30 dB attenuator	na*	na*
26	00078	Pasternack	PE2214-20	Directional Coupler	na*	na*
27	00142	HP	8491A	20 dB attenuator	na*	na*

\* Attenuation offset in power meter setup

K.5. MEASUREMENT EQUIPMENT SETUP					
MEASUREMENT EQUIPMENT CONNECTIONS	The measurement equipment was connected as shown in K.6. A number of measurement equipment configurations were used to cover the applicable frequency ranges. The configurations for each range are as follows:				
	Frequency Range	LNA Asset #	Filter/Attenuator Asset #	Rx Antenna Asset #	Tx Antenna Asset #
	1 GHz – 2 GHz	none	none	00034	00035
	2 GHz – 3 GHz	00115	00119	00034	00035
	3 GHz – 18 GHz	00115	00093	00034	00035
	18 GHz – 25 GHz	00115	none	000161/00166	000162/00165
MEASUREMENT EQUIPMENT SETTINGS	The spectrum analyzer was set to the following settings:				
	Frequency Range		RBW	VBW	Detector
	MHz		kHz	kHz	
	1 GHz – 25 GHz		1000	1000	Peak


Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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Figure K.6-1 - Field Strength Setup Drawing

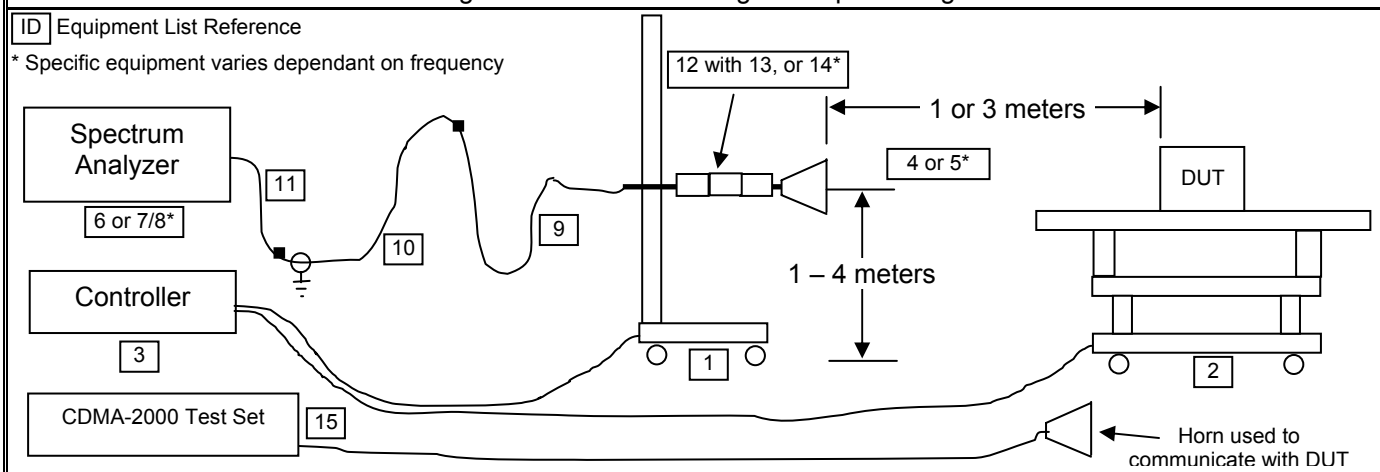
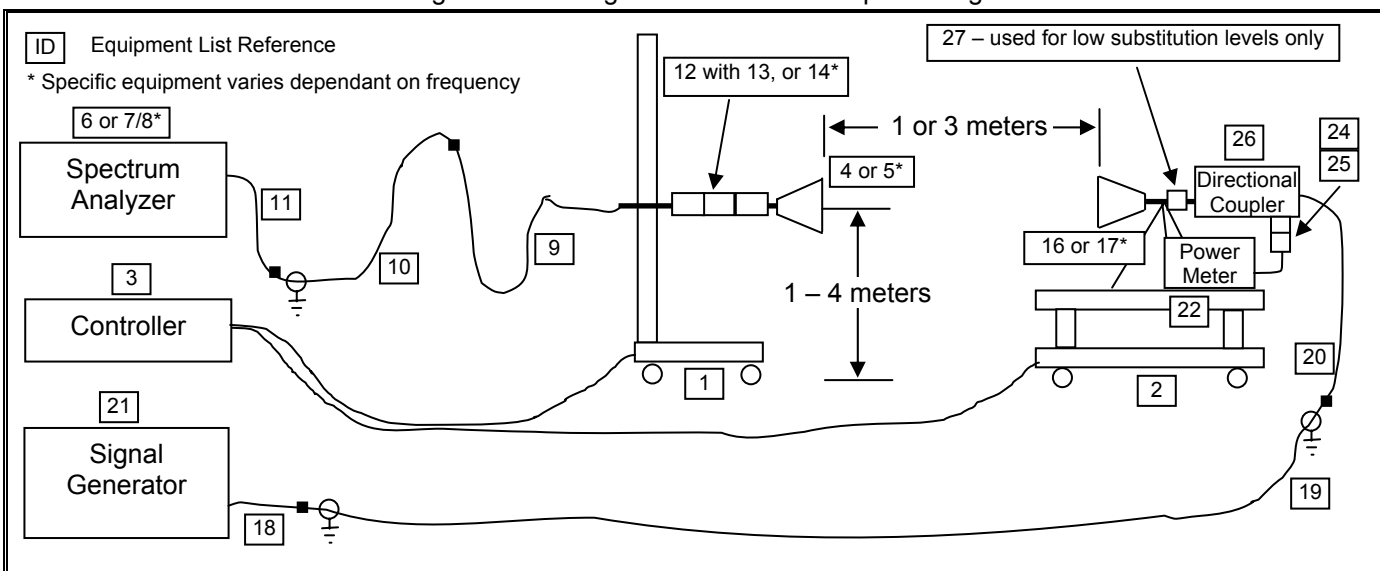



Figure K.6-2 - Signal Substitution Setup Drawing



	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
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	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### K.7. SETUP PHOTOGRAPHS

Photograph K.7-1 - 3m Horn Setup

Photograph K.7-2 - 1m Horn/LNA Setup

Intentionally Blank


Intentionally Blank


Photograph K.7-3 - 18-26 GHz 1m Horn/LNA Setup

Intentionally Blank

#### K.8. DUT OPERATING DESCRIPTION

Measurements were made for the low, mid and high CDMA channels transmitting in the PCS band at maximum power levels as described in Section 5 of this report. The conducted transmit spurious emissions supplementary measurements are described in Appendix I.

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX		
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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	<b>Test Report Serial No.:</b> 121405O8F-T705-E24C		<b>Report Issue No.:</b> E705C-020306-R0
	<b>Test Date(s):</b> 14Dec05 - 18Jan06		<b>Report Issue Date:</b> February 03, 2006
	<b>Test Standard(s):</b> FCC 47 CFR §2, §22H, §24E		IC RSS-133 Issue 3 & RSS-132 Issue 2
	<b>Lab Registration(s):</b> FCC Registration No.: 714830		Industry Canada Lab File No.: 3874

## K.9. TEST RESULTS

### Channel 25



**Project Number:** 705  
**Company:** Palm  
**Product:** Treo XXX

**Standard:** FCC24.238  
**Test Start Date:** 10-Jan-06  
**Test End Date:** 15-Jan-06

Polarity	Distance m	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Detector	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	EIRP Emission Level	Limit	Margin	Pass/Fail
				MHz	dBuV/m		dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
H	3	none	25	1870.41	58.32	PK*					82.2*	23.9*	PASS*
H	3	none	25	1930.76	49.25	PK*					82.2*	33.0*	PASS*
H	3	none	25	3701.89	48.10	PK*					82.2*	34.1*	PASS*
H	3	none	25	5554.64	42.68	PK*					82.2*	39.5*	PASS*
H	1	none	25	7403.68	50.06	PK*					91.8*	41.7*	PASS*
H	1	none	25	9256.38	55.07	PK*					91.8*	36.7*	PASS*
H	1	none	25	11107.10	53.02	PK*					91.8*	38.8*	PASS*
H	1	none	25	12957.40	58.48	PK*					91.8*	33.3*	PASS*
H	1	none	25	14806.63	56.88	PK*					91.8*	34.9*	PASS*
H	1	none	25	16665.20	55.16	PK*					91.8*	36.6*	PASS*
H	1	none	25	18514.33	54.46	PK*					91.8*	37.3*	PASS*
V	3	none	25	1930.74	59.55	PK					82.2*	22.7*	PASS*
V	3	none	25	1930.74	48.15	AV					82.2*	34.1*	PASS*
V	3	none	25	3701.75	50.70	PK*					82.2*	31.5*	PASS*
V	3	none	25	5554.68	46.58	PK*					82.2*	35.6*	PASS*
V	1	none	25	7405.98	50.11	PK*					91.8*	41.7*	PASS*
V	1	none	25	9257.40	55.89	PK*					91.8*	35.9*	PASS*
V	1	none	25	11109.63	52.74	PK*					91.8*	39.0*	PASS*
V	1	none	25	12959.93	58.65	PK*					91.8*	33.1*	PASS*
V	1	none	25	14807.55	57.37	PK*					91.8*	34.4*	PASS*
V	1	none	25	16658.70	54.93	PK*					91.8*	36.8*	PASS*
V	1	none	25	18509.18	54.64	PK*					91.8*	37.1*	PASS*

PK\* - measurement made with a peak detector and applied to an average limit.

Pass\* - Margin and Pass/Fail based on measured field strengths applied against a theoretical field strength limit.

#### Note:


The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with peak field strengths within 20 dB of the theoretical limit. All other emissions attributed to the DUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.


#### Formulae:

EIRP Emission Level (dBm) = Power applied to antenna (dBm) + Antenna Gain (dBi)


Margin (dB) = Limit (dBm) – EIRP Emission Level (dBm) or Theoretical Limit (dBuV/m) – Corrected Field Strength (dBuV/m)

Theoretical Limit (V/m) =  $\sqrt{30 \cdot P / r^2}$  where P is the total transmitted power (W), r is measurement distance (m)

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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	<b>Test Report Serial No.:</b> 121405O8F-T705-E24C		<b>Report Issue No.:</b> E705C-020306-R0	
	<b>Test Date(s):</b> 14Dec05 - 18Jan06		<b>Report Issue Date:</b> February 03, 2006	
	<b>Test Standard(s):</b> FCC 47 CFR §2, §22H, §24E		IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b> FCC Registration No.: 714830		Industry Canada Lab File No.: 3874	

### Channel 600



Project Number:

705

Company:

Palm

Product:

Treo XXX

Standard:

FCC24.238

Test Start Date:

10-Jan-06

Test End Date:

15-Jan-06

Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Detector	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	EIRP Emission Level	Limit	Margin	Pass/Fail
				MHz	dBuV/m		dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
H	3	none	600	155.23	58.52	PK*					82.2*	23.7*	PASS*
H	3	none	600	1110.03	62.29	PK					82.2*	19.9*	PASS*
H	3	none	600	1860.87	57.26	PK*					82.2*	25.0*	PASS*
H	3	none	600	1899.14	58.87	PK*					82.2*	23.4*	PASS*
H	3	none	600	1960.03	50.64	PK*					82.2*	31.6*	PASS*
H	3	none	600	3759.77	63.89	PK					82.2*	18.3*	PASS*
H	3	none	600	3759.77	53.99	AV					82.2*	28.2*	PASS*
H	3	none	600	5640.96	37.94	PK*					82.2*	44.3*	PASS*
H	1	none	600	7518.18	49.48	PK*					91.8*	42.3*	PASS*
H	1	none	600	9401.95	52.83	PK*					91.8*	38.9*	PASS*
H	1	none	600	11283.70	53.05	PK*					91.8*	38.7*	PASS*
H	1	none	600	13157.43	58.95	PK*					91.8*	32.8*	PASS*
H	1	none	600	15040.33	56.35	PK*					91.8*	35.4*	PASS*
H	1	none	600	16918.10	57.47	PK*					91.8*	34.3*	PASS*
H	1	none	600	18804.23	54.47	PK*					91.8*	37.3*	PASS*
V	3	none	600	1923.74	49.52	PK*					82.2*	32.7*	PASS*
V	3	none	600	1959.98	59.64	PK					82.2*	22.6*	PASS*
V	3	none	600	1959.98	47.84	AV					82.2*	34.4*	PASS*
V	3	none	600	3759.82	66.39	PK					82.2*	15.8*	PASS*
V	3	none	600	3759.82	53.79	AV					82.2*	28.4*	PASS*
V	3	none	600	5640.93	40.54	PK*					82.2*	41.7*	PASS*
V	1	none	600	7521.53	50.03	PK*					91.8*	41.7*	PASS*
V	1	none	600	9398.18	55.28	PK*					91.8*	36.5*	PASS*
V	1	none	600	11281.58	52.84	PK*					91.8*	38.9*	PASS*
V	1	none	600	13163.03	61.11	PK*					91.8*	30.7*	PASS*
V	1	none	600	15037.90	56.02	PK*					91.8*	35.7*	PASS*
V	1	none	600	16920.43	56.59	PK*					91.8*	35.2*	PASS*
V	1	none	600	18804.68	54.14	PK*					91.8*	37.6*	PASS*

PK\* - measurement made with a peak detector and applied to an average limit.

Pass\* - Margin and Pass/Fail based on measured field strengths applied against a theoretical field strength limit.

#### Note:


The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with peak field strengths within 20 dB of the theoretical limit. All other emissions attributed to the DUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.


#### Formulae:

EIRP Emission Level (dBm) = Power applied to antenna (dBm) + Antenna Gain (dBi)

Margin (dB) = Limit (dBm) – EIRP Emission Level (dBm) or Theoretical Limit (dBuV/m) – Corrected Field Strength (dBuV/m)

Theoretical Limit (V/m) =  $\sqrt{30 \cdot P / r^2}$  where P is the total transmitted power (W), r is measurement distance (m)

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Report Serial No.:</b> 121405O8F-T705-E24C		<b>Report Issue No.:</b> E705C-020306-R0	
	<b>Test Date(s):</b> 14Dec05 - 18Jan06		<b>Report Issue Date:</b> February 03, 2006	
	<b>Test Standard(s):</b> FCC 47 CFR §2, §22H, §24E		IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b> FCC Registration No.: 714830		Industry Canada Lab File No.: 3874	

### Channel 1175

	<b>Project Number:</b>	705	<b>Standard:</b>	FCC24.238
	<b>Company:</b>	Palm	<b>Test Start Date:</b>	10-Jan-06
	<b>Product:</b>	Treo XXX	<b>Test End Date:</b>	15-Jan-06

Polarity	Distance m	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Detector	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	EIRP Emission Level	Limit	Margin	Pass/Fail
				MHz	dBuV/m		dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
H	3	none	1175	1134.71	45.17	PK*					82.2*	37.1*	PASS*
H	3	none	1175	1889.65	60.72	PK					82.2*	21.5*	PASS*
H	3	none	1175	1889.65	51.12	AV					82.2*	31.1*	PASS*
H	3	none	1175	1988.95	48.63	PK*					82.2*	33.6*	PASS*
H	3	none	1175	2411.22	43.39	PK*					82.2*	38.8*	PASS*
H	3	Horn SN6276	1175	<b>3817.03</b>	74.50	PK	65.60	-29.00	7.67	-21.33	-13.00	8.33	PASS
H	3	none	1175	<b>3817.03</b>	63.50	AV					82.2*	18.7*	PASS*
H	3	none	1175	<b>5730.01</b>	45.11	PK*					82.2*	37.1*	PASS*
H	1	none	1175	<b>7635.75</b>	49.73	PK*					91.8*	42.0*	PASS*
H	1	none	1175	<b>9545.38</b>	55.52	PK*					91.8*	36.3*	PASS*
H	1	none	1175	<b>11454.05</b>	53.31	PK*					91.8*	38.5*	PASS*
H	1	none	1175	<b>13363.93</b>	56.87	PK*					91.8*	34.9*	PASS*
H	1	none	1175	<b>15273.70</b>	54.37	PK*					91.8*	37.4*	PASS*
H	1	none	1175	<b>17175.75</b>	57.33	PK*					91.8*	34.4*	PASS*
H	1	none	1175	<b>19090.88</b>	54.77	PK*					91.8*	37.0*	PASS*
V	3	none	1175	1116.45	45.23	PK*					82.2*	37.0*	PASS*
V	3	none	1175	1889.66	55.22	PK*					82.2*	27.0*	PASS*
V	3	none	1175	1989.05	55.63	PK*					82.2*	26.6*	PASS*
V	3	none	1175	2423.53	43.62	PK*					82.2*	38.6*	PASS*
V	3	Horn SN6276	1175	<b>3816.96</b>	80.50	PK	71.60	-23.21	7.67	-15.54	-13.00	2.54	PASS
V	3	none	1175	<b>3816.96</b>	69.20	AV					82.2*	13.0*	PASS*
V	3	none	1175	<b>5727.13</b>	42.80	PK*					82.2*	39.4*	PASS*
V	1	none	1175	<b>7633.13</b>	49.57	PK*					91.8*	42.2*	PASS*
V	1	none	1175	<b>9545.50</b>	55.45	PK*					91.8*	36.3*	PASS*
V	1	none	1175	<b>11456.25</b>	53.49	PK*					91.8*	38.3*	PASS*
V	1	none	1175	<b>13358.43</b>	61.34	PK*					91.8*	30.4*	PASS*
V	1	none	1175	<b>15267.43</b>	55.16	PK*					91.8*	36.6*	PASS*
V	1	none	1175	<b>17181.40</b>	57.35	PK*					91.8*	34.4*	PASS*
V	1	none	1175	<b>19087.43</b>	54.20	PK*					91.8*	37.6*	PASS*

PK\* - measurement made with a peak detector and applied to an average limit.

Pass\* - Margin and Pass/Fail based on measured field strengths applied against a theoretical field strength limit.

#### Note:


The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with peak field strengths within 20 dB of the theoretical limit. All other emissions attributed to the DUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.


#### Formulae:

EIRP Emission Level (dBm) = Power applied to antenna (dBm) + Antenna Gain (dBi)

Margin (dB) = Limit (dBm) – EIRP Emission Level (dBm) or Theoretical Limit (dBuV/m) – Corrected Field Strength (dBuV/m)

Theoretical Limit (V/m) =  $\sqrt{30 \cdot P / r^2}$  where P is the total transmitted power (W), r is measurement distance (m)

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### K.10. PASS/FAIL

In reference to the results outlined in K.9, the DUT passes the requirements as stated in the reference standards.

FCC CFR 4 §24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

The results set forth in this section meet the requirement with a margin of at least 2.54 dB.

#### K.11. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




Spencer Watson  
Senior Compliance Technologist  
Celltech Labs Inc.

15Jan06

Date

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
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	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix L - Cellular Band Conducted RX Spurious Emissions Measurement


L.1. REFERENCES	
<b>Normative Reference Standard</b>	IC RSS-132 §4.6, RSS-Gen §6 (b)
<b>Procedure Reference</b>	IC RSS-Gen §4.8


L.2. LIMITS	
IC RSS-132 §4.6	<i>Receiver spurious emissions shall comply with the limits specified in RSS-Gen</i>
RSS-Gen §6 (b)	<i>(b) If a conducted measurement is made, no spurious output signals appearing at the antenna terminals shall exceed 2 nanowatts per 4 kHz spurious frequency in the band 30 – 1000 MHz or 5 nanowatts above 1 GHz.</i>

L.3. ENVIRONMENTAL CONDITIONS	
<b>Temperature</b>	25 ± 5 °C
<b>Humidity</b>	35 ± 5 %RH
<b>Barometric Pressure</b>	uncontrolled

L.4. EQUIPMENT LIST					
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00015	Agilent	E4408B	Spectrum Analyzer	24Jan05	24Jan06
00188	Narda	M3933/16-06	2 x 2dB attenuator	na	na*
00078	Pasternack	PE2214-20	Directional coupler	na	na*
Customer Supplied	Palm	na	Cable & SMA adapter	na	na*
00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06

\*Verified prior to use

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth				Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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	Test Report Serial No.:	121405O8F-T705-E24C	Report Issue No.:	E705C-020306-R0
	Test Date(s):	14Dec05 - 18Jan06	Report Issue Date:	February 03, 2006
	Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## L.5. MEASUREMENT EQUIPMENT SETUP

### MEASUREMENT EQUIPMENT CONNECTIONS

The measurement equipment was connected as shown in L.6.

### MEASUREMENT EQUIPMENT SETTINGS

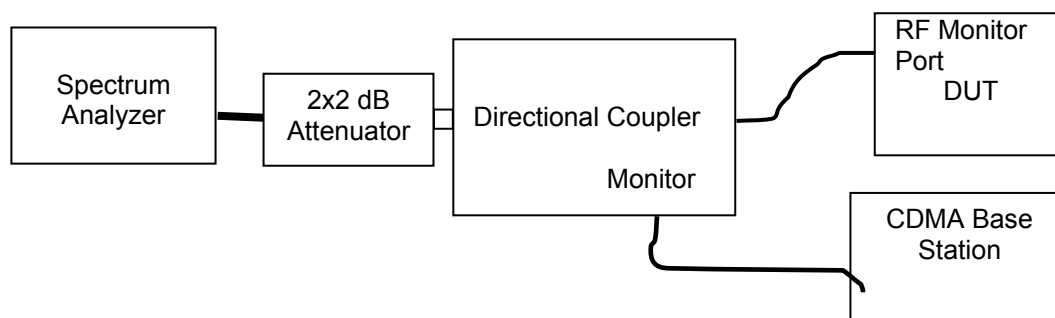
Spectrum analyzer settings:

Frequency Range	RBW	VBW	Bands	Detector
MHz	kHz	kHz		
30 MHz - 3 * F <sub>c</sub>	300*	300	25	Peak

Note: Due to measurement limitations, 300 kHz RBW & VBW were used and resulting values corrected to 4 kHz. A bandwidth correction factor of  $10 * \log(4 \text{ kHz} / 300 \text{ kHz})$ , (-18.75 dB) was added to the measured results.


## L.6. SETUP DRAWING

Figure L.6-1 - Setup Drawing



## L.7. DUT OPERATING DESCRIPTION

Measurements were made with the DUT in receive mode for the cellular band mid channel (CH384)

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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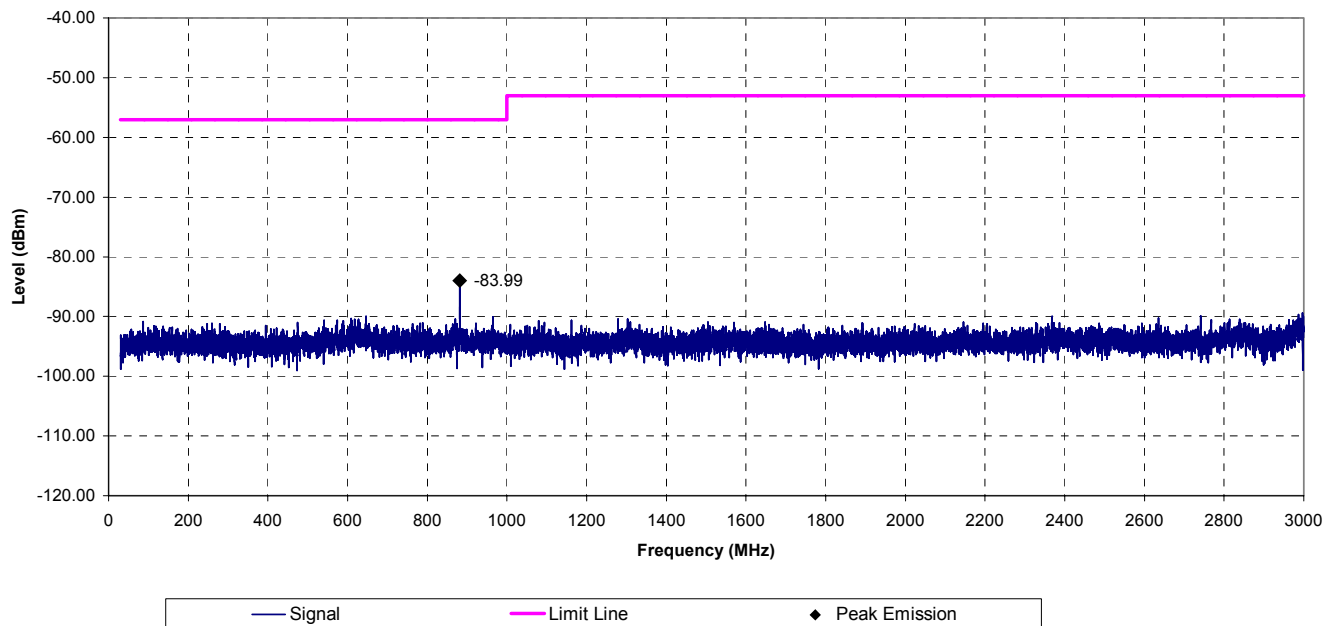


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<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## L.8. TEST RESULTS

### L.8.1. Receiver Spurious Emissions

**Cellular Band Mid Channel Conducted Receiver Spurs**  
**Spurious Emission with the lowest margin is at 881.50 MHz**  
**with a margin of 27.00 dB and a level of -83.99dBm**  
**(measured with 300 kHz RBW, corrected to 4 kHz BW)**




#### Calculations:

Limit (dBm) =  $10 * \log(\text{Limit (mW)})$

Margin (dB) = Limit (dBm) – Peak Emission (dBm)

BW Correction (dB) =  $10 * \log(4 \text{ kHz} / 300 \text{ kHz})$  where: 4 kHz is the limit BW and 300 kHz is the measurement RBW

	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### L.9. PASS/FAIL

In reference to the results outlined in L.9, the DUT passes the requirements as stated in the reference standards.

IC RSS-Gen §6 (b) If a conducted measurement is made, no spurious output signals appearing at the antenna terminals shall exceed 2 nanowatts per 4kHz spurious frequency in the band 30 – 1000 MHz or 5 nanowatts above 1 GHz.

The results set forth in this section meet the requirement with a margin of at least 27.0 dB.

#### L.10. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




Duane M. Friesen  
EMC Manager  
Celltech Labs Inc.

18Jan06

Date

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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 Testing and Engineering Services Lab	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## Appendix M - PCS Band Conducted RX Spurious Emissions Measurement


M.1. REFERENCES	
<b>Normative Reference Standard</b>	IC RSS-133 §6.7 (b)
<b>Procedure Reference</b>	IC RSS-133 §4.5


M.2. LIMITS	
IC RSS-133 §6.7	(b) If a conducted measurement is made, no spurious output signals appearing at the antenna terminals shall exceed 2 nanowatts per 4 kHz spurious frequency in the band 30 – 1000 MHz or 5 nanowatts above 1 GHz.

M.3. ENVIRONMENTAL CONDITIONS	
<b>Temperature</b>	25 ± 5 °C
<b>Humidity</b>	35 ± 5 %RH
<b>Barometric Pressure</b>	uncontrolled

M.4. EQUIPMENT LIST					
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00015	Agilent	E4408B	Spectrum Analyzer	24Jan05	24Jan06
00188	Narda	M3933/16-06	2 x 2dB attenuator	na	na*
00078	Pasternack	PE2214-20	Directional coupler	na	na*
Customer Supplied	Palm	na	Cable & SMA adapter	na	na*
00009	Willtek	4303	Communications Test Set	09Jun04	09Jun06

\*Verified prior to use

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth				Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

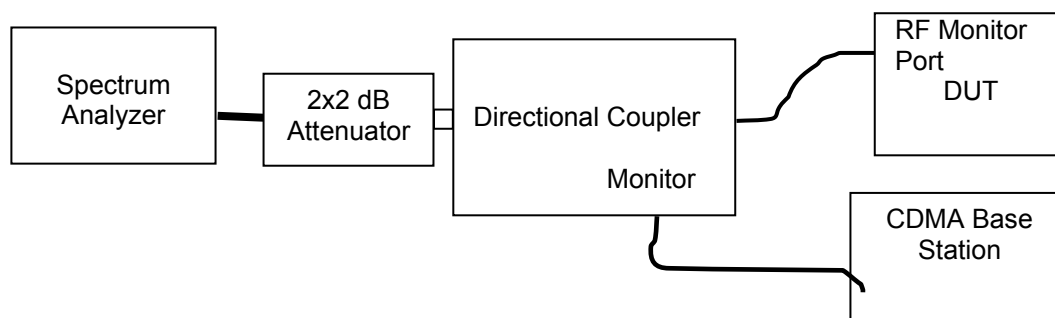
## M.5. MEASUREMENT EQUIPMENT SETUP

<b>MEASUREMENT EQUIPMENT CONNECTIONS</b>	The measurement equipment was connected as shown in M.6.				
<b>MEASUREMENT EQUIPMENT SETTINGS</b>	Spectrum analyzer settings:				
	Frequency Range	RBW	VBW	Bands	Detector
	MHz	kHz	kHz		
	30 MHz - 3 * F <sub>c</sub>	300*	300	50	Peak

Note: Due to measurement limitations, 300 kHz RBW & VBW were used and resulting values corrected to 4 kHz. A bandwidth correction factor of  $10 * \log(4 \text{ kHz} / 300 \text{ kHz})$ , (-18.75 dB) was be added to the measured results.


## M.6. SETUP DRAWING

Figure M.6-1 - Setup Drawing



## M.7. DUT OPERATING DESCRIPTION

Measurements were made with the DUT in the receive mode for the PCS band mid channel (CH600)

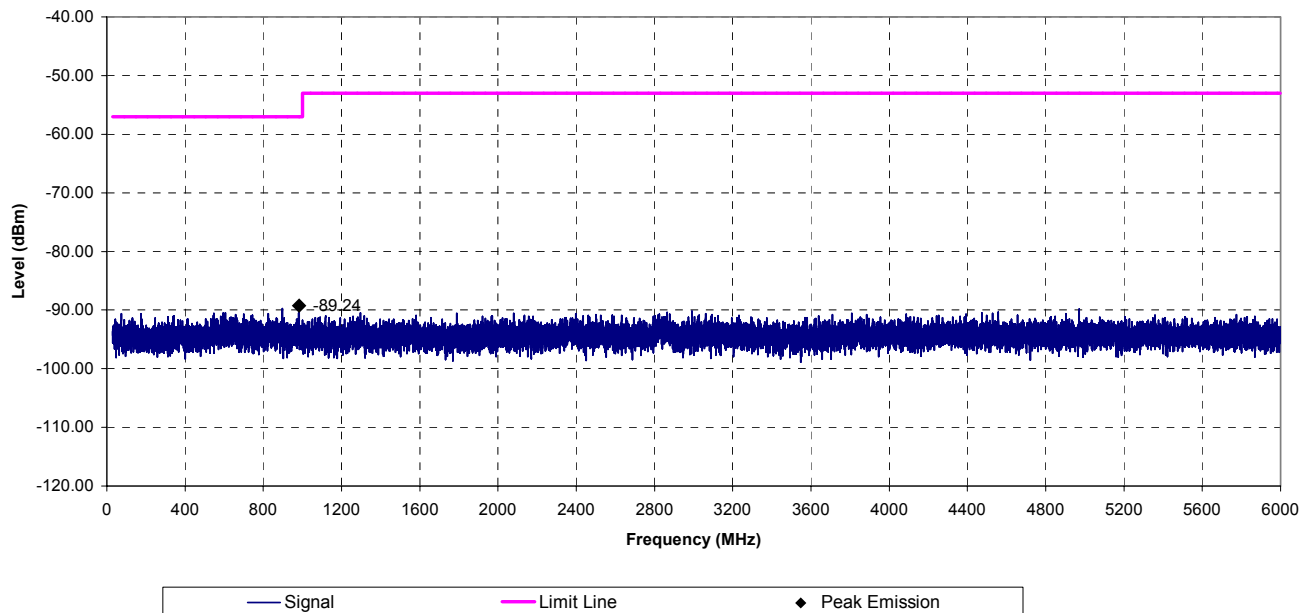
Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth				Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz		
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Test Report Serial No.:	121405O8F-T705-E24C	Report Issue No.:	E705C-020306-R0
Test Date(s):	14Dec05 - 18Jan06	Report Issue Date:	February 03, 2006
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
Lab Registration(s):	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

## M.8. TEST RESULTS

### M.8.1. Receiver Spurious Emissions

**PCS Band Mid Channel Conducted Receiver Spurs**  
Spurious Emission with the lowest margin is at 982.81 MHz  
with a margin of 32.25 dB and a level of -89.24dBm  
(measured with 300 kHz RBW, corrected to 4 kHz BW)




Calculations:

Limit (dBm) =  $10 * \log(\text{Limit (mW)})$

Margin (dB) = Limit (dBm) - Peak Emission (dBm)

BW Correction (dB) =  $10 * \log(4 \text{ kHz} / 300 \text{ kHz})$  where: 4 kHz is the limit BW and 300 kHz is the measurement RBW

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	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

#### M.9. PASS/FAIL

In reference to the results outlined in M.9, the DUT passes the requirements as stated in the reference standards.

IC RSS-133 §6.7 (b) If a conducted measurement is made, no spurious output signals appearing at the antenna terminals shall exceed 2 nanowatts per 4kHz spurious frequency in the band 30 – 1000 MHz or 5 nanowatts above 1 GHz.

The results set forth in this section meet the requirement with a margin of at least 32.25 dB.


#### M.10. SIGN-OFF


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.




\_\_\_\_\_  
Duane M. Friesen  
EMC Manager  
Celltech Labs Inc.

\_\_\_\_\_  
18Jan06  
Date

<b>Applicant:</b>	<b>Palm, Inc.</b>	<b>FCC ID:</b>	<b>O8F93001</b>	<b>IC ID:</b>	<b>3905A-93001</b>	<b>Model:</b>	<b>Treo XXX</b>	
<b>DUT Type:</b>	<b>Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth</b>					<b>Freq. Range(s):</b>	<b>1851.25-1908.75 MHz 824.70-848.31 MHz</b>	
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	<b>Test Report Serial No.:</b>	121405O8F-T705-E24C	<b>Report Issue No.:</b>	E705C-020306-R0
	<b>Test Date(s):</b>	14Dec05 - 18Jan06	<b>Report Issue Date:</b>	February 03, 2006
	<b>Test Standard(s):</b>	FCC 47 CFR §2, §22H, §24E	IC RSS-133 Issue 3 & RSS-132 Issue 2	
	<b>Lab Registration(s):</b>	FCC Registration No.: 714830	Industry Canada Lab File No.: 3874	

**END OF DOCUMENT**

Applicant:	Palm, Inc.	FCC ID:	O8F93001	IC ID:	3905A-93001	Model:	Treo XXX	
DUT Type:	Portable Dual-Band PCS/Cellular CDMA-2000 Phone with Bluetooth					Freq. Range(s):	1851.25-1908.75 MHz 824.70-848.31 MHz	
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