

# FCC CFR47 PART 22H & 24E CERTIFICATION TEST REPORT

#### **FOR**

#### HAND HELD MOBILE COMPUTER

**MODEL NUMBER: CN3** 

FCC ID: EHA-04CN3

REPORT NUMBER: 06U10562-1, Revision C

**ISSUE DATE: NOVEMBER 6, 2006** 

Prepared for

INTERMAC TECHNOLOGIES CORPORATION 550 SECOND STREET SE CEDAR RAPID, IOWA 52401, USA

Prepared by

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#### Revision History

	Issue		
Rev.	Date	Revisions	Revised By
	10/9/06	Initial Issue	Thu
В	10/27/06	Update Section 5.2 and 5.5	A.I.
С	11/6/06	Correct FCC ID Clarify frequency range of investigation in sections 7.4 and 7.5.	A.I.

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** INTERMAC TECHNOLOGIES COPORATION

550 SECOND STREET SE CEDAR RAPID, IOWA, USA

**EUT DESCRIPTION:** HAND HELD MOBILE COMPUTER

MODEL: CN3

SERIAL NUMBER: CN3A1K841C5E300

**DATE TESTED:** SEPTEMBER 19-23, 2006

#### APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 22 SUBPART H NO NON-COMPLIANCE NOTED

FCC PART 24 SUBPART E NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note**: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By: Tested By:

ALVIN ILARINA EMC SUPERVISOR

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# 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA/EIA 603C (2004), ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15 and FCC CFR 47 Part 22H and 24E.

#### 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 561F Monterey Road, Morgan Hill, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://www.ccsemc.com.

#### 4. CALIBRATION AND UNCERTAINTY

#### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

#### 4.2. **MEASUREMENT UNCERTAINTY**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

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# 5. EQUIPMENT UNDER TEST

#### 5.1. DESCRIPTION OF EUT

The EUT is a handheld mobile computer device.

The radio module is manufactured by Sierra Wireless, Inc.

#### 5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum average & peak conducted output powers as follows:

#### 824 to 849 MHz Authorized Band

Frequency Range	Modulation	Conducted	Conducted	Conducted	Conducted
		Average Power	Average Power	Peak Power	Peak Power
(MHz)		(dBm)	(mW)	(dBm)	(mW)
Low CH - 824.7		24.4	275.42	28.6	724.44
Mid CH - 836.5	1 x RTT	24.4	275.42	28.49	706.32
High CH - 848.3		24.30	269.15	28.24	666.81

#### 1850 to 1910 MHz Authorized Band

Frequency Range	Modulation	Conducted	Conducted	Conducted	Conducted
		Average Power	Average Power	Peak Power	Peak Power
(MHz)		(dBm)	(mW)	(dBm)	(mW)
Low CH - 1851.25		24.4	275.42	28.51	709.58
Mid CH - 1880	1 x RTT	24.5	281.84	28.84	765.60
High CH - 1908.75		24.3	269.15	27.81	603.95

NOTE: RBW=VBW=3MHz.

#### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PIFA antenna, with a maximum gain of +2.0 dBi antenna.

#### 5.4. SOFTWARE AND FIRMWARE

The EUT is linked with Agilent Communication Test Set.

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#### 5.5. WORST-CASE CONFIGURATION AND MODE

Pre-scan was performed on RF conducted port to determine the worst-case scenario.

	Avg. Output Power (dBm)	99% BW (MHz)	26 dB BW (MHz)	Band e	dge (dBm)
Cellular Band	Mid CH	Mid CH	Mid CH	Low CH	High CH
1xRRT RC3, SO2	24.32	1.2715	1.401	-16.474	-13.743
1xRRT RC3, SO32 (+F-SCH)	24.40	1.2794	1.41	-16.46	-13.281
1xRRT RC3, SO32 (+SCH)	24.40	1.2764	1.405	-16.691	-13.486
1xRRT RC3, SO55	24.35	1.2793	1.4	-16.48	-13.715
EVDO	24.40	1.2505	1.399	-16.827	-13.977

	Avg. Output Power (dBm)	99% BW (MHz) 26 dB BW (MHz		Band edge (dBm)	
PCS Band	Mid CH	Mid CH	Mid CH	Low CH	High CH
1xRRT RC3, SO2	24.47	1.258	1.395	-31.368	-29.629
1xRRT RC3, SO32 (+F-SCH)	24.50	1.266	1.412	-30.729	-29.425
1xRRT RC3, SO32 (+SCH)	24.50	1.265	1.402	-30.748	-29.86
1xRRT RC3, SO55	24.50	1.258	1.402	-30.866	-29.6
EVDO	24.50	1.259	1.395	-32.632	-30.515

Based on the above results from the different modulations, the 1xRTT RC3\_SO32 (+F-SCH) mode to be the worst-case scenario for all measurements.

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was at low channel for Cellular band & mid channel for PCS band.

The positions for both mobile and portable configuration, the mobile configuration of EUT with sitting on the cradle has the worst position.

1xEVDO Rev. A can not be performed with Base Station simulator due to 1xEVDO Rev. A network is not widely supported in the U.S. at the time of tests.

3GPP2 C.S0024 refers to 3GPP2 C.S0033 for EV-DO Rev A maximum transmit power measurements. The channel configuration is the same for Rev 0 and Rev A. Sierra Wireless has provided an engineering evaluation data from the chip set manufacturer to show the differences in term of output power between Rev. 0 and Rev. A. As the result indicated, the difference is 0.08 dB thus 1xEVDO Rev. A configuration is not evaluated in this test report.

#### 5.6. **DESCRIPTION OF TEST SETUP**

#### **SUPPORT EQUIPMENT**

PERIPHERAL SUPPORT EQUIPMENT LIST							
Description	Manufacturer	Manufacturer Model Serial Number FCC ID					
AC Adapter	Intermac	73573	12/27/3310	DoC			
Cradle	Intermac	AD10	871-025-001	NA			
Lion Battery	Intermac	AB9	318-016-002	NA			

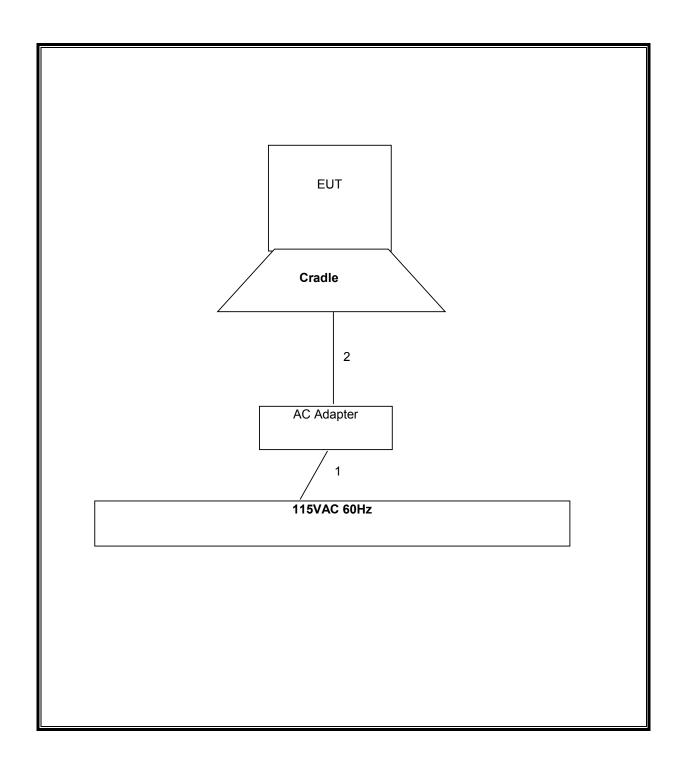
#### **I/O CABLES**

	I/O CABLE LIST						
Cable	Port	# of	Connector	Cable	Cable	Remarks	
No.		Identical	Type	Type	Length		
		Ports					
1	AC	2	US 115V	Un-shielded	2m	No	
2	DC	1	DC	Un-shielded	2m	Ferrite on DC cable	

#### **TEST SETUP**

The EUT is installed in the PDA during tests. The EUT is linked with Agilent Communication Test Set.

#### **SETUP DIAGRAM FOR TESTS**



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# 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	Cal Due
Antenna, Bilog 30 MHz ~ 2 Ghz	Sunol Sciences	JB1	A121003	9/3/2007
EMI Receiver, 9 kHz ~ 2.9 GHz	Agilent / HP	8542E	3942A00286	2/4/07
RF Filter Section	Agilent / HP	85420E	3705A00256	2/4/07
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	2238	4/22/07
Preamplifier, 1 ~ 26.5 GHz	Agilent / HP	8449B	3008A00561	10/3/07
Spectrum Analyzer 3 Hz ~ 44 GHz	Agilent / HP	E4446A	MY43360112	5/3/07
LISN, 10 kHz ~ 30 MHz	FCC	LISN-50/250-25-2	2023	8/30/07
EMI Test Receiver	R & S	ESHS 20	827129/006	6/3/07
Dipole	EMCO	3121C-DB2	22435	3/25/07
Signal Generator 1024MHz	R & S	SMY01	DE12311	4/11/07
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6717	4/22/07
Signal Generator, 10 MHz ~ 20 GHz	Agilent / HP	83732B	US34490599	10/5/06
Communication Tester	R & S	CMU 200	838114/032	3/21/07

# 7. LIMITS AND RESULTS

## 7.1. OCCUPIED BANDWIDTH

Worst case modulation, CDMA 1xRTT RC3\_SO32 (+F-SCH)

#### **LIMIT**

None; for reporting purposes only.

#### **TEST PROCEDURE**

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the -26 dB bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal -26 dB bandwidth function is utilized.

#### **RESULTS**

No non-compliance noted:

#### CELLULAR

Channel	Frequency	Bandwidth
	(MHz)	(MHz)
Low	824.70	1.399
Middle	836.52	1.41
High	848.31	1.407

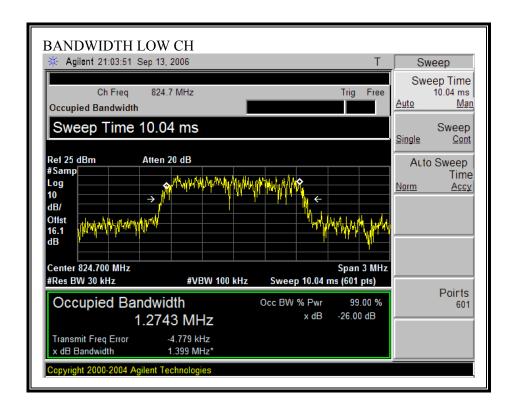
### **PCS**

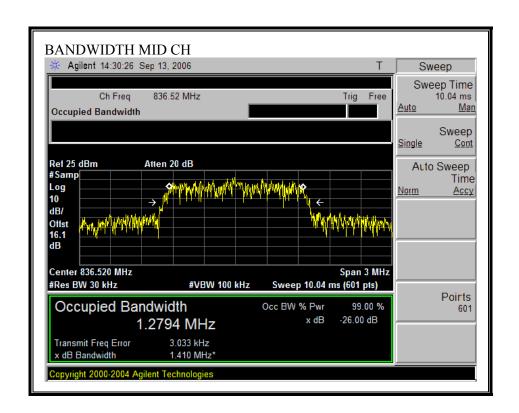
Channel	Frequency (MHz)	Bandwidth (MHz)
Low	1851.25	1.398
Middle	1880.00	1.41
High	1908.75	1.407

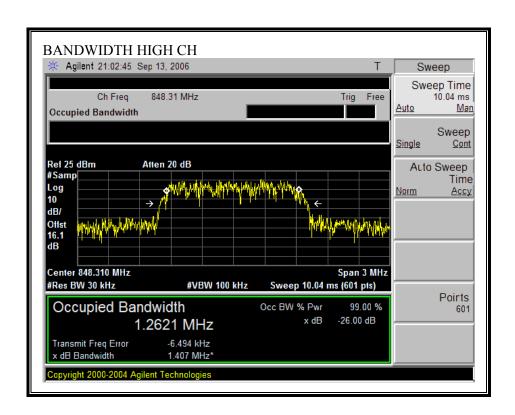
DATE: NOVEMBER 6, 2006

FCC ID: EHA-04CN3

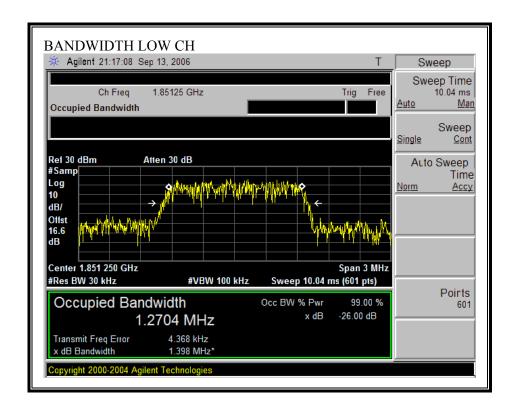
#### 800MHz CELLULAR 26 dB BANDWIDTH

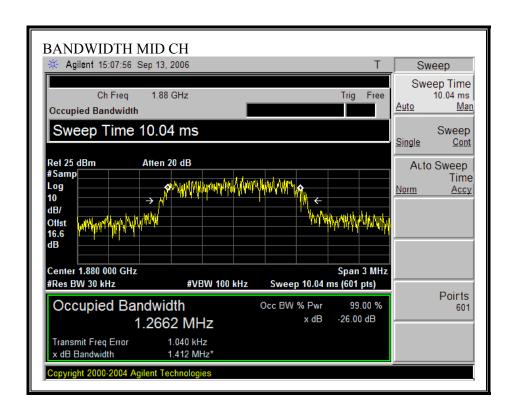


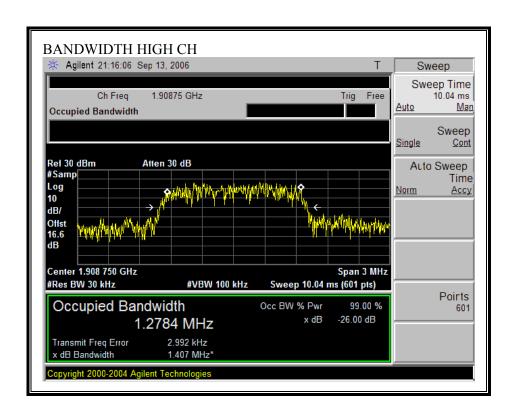




#### 1900MHz PCS 26 dB BANDWIDTH







## 7.2. RF POWER OUTPUT

#### **LIMIT**

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

#### **TEST PROCEDURE**

ANSI / TIA / EIA 603C Clause 2.2.17

#### **RESULTS**

No non-compliance noted.

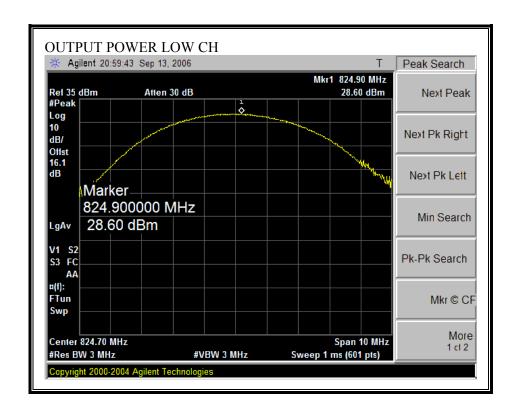
#### 800MHz CELL CDMA Modulation

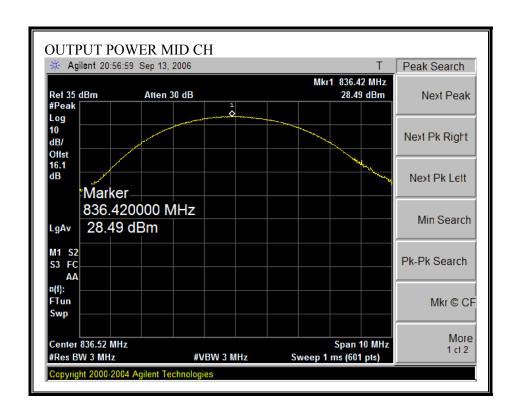
Channel	Frequency	Conducted	Conducted
		Peak Power	Peak Power
	(MHz)	(dBm)	(mW)
Low	824.7	28.60	724.44
Middle	836.5	28.49	706.32
High	848.3	28.24	666.81

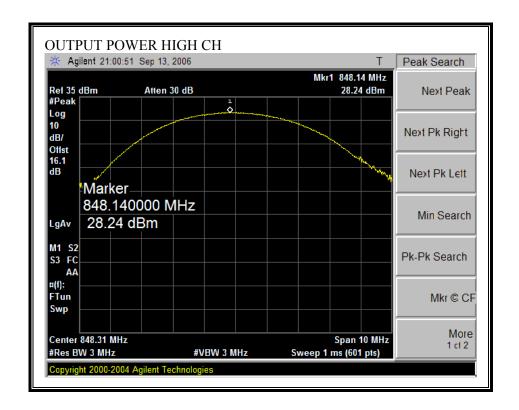
#### 1900MHz PCS Modulation

Channel	Frequency	Conducted	Conducted
		Peak Power	Peak Power
	(MHz)	(dBm)	(mW)
Low	1851.25	28.51	709.58
Middle	1880.00	28.84	765.60
High	1908.75	27.81	603.95

#### 800MHz CELLULLAR (RF CONDUCTED OUTPUT POWER)

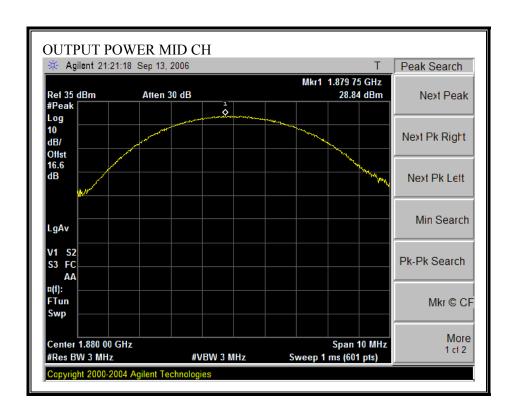


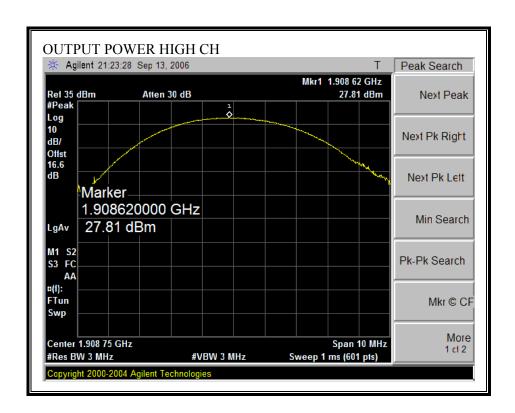




#### 1900MHz PCS (RF CONDUCTED OUTPUT POWER)







#### **Cellular Output Power (ERP)**

f	SA reading	Ant. Pol.	SG reading	CL	Gain	ERP	Limit	Margin	Notes
Low Channel									
824.70	99.0	V	24.6	0.5	0.0	24.1	38.5	-14.4	
824.70	95.6	H	21.3	0.5	0.0	20.8	38.5	-17.6	
Mid Channel									
836.52	100.0	V	25.4	0.6	0.0	24.8	38.5	-13.6	
836.52	96.0	H	21.5	0.6	0.0	20.9	38.5	-17.5	
High Channe	l								
848.31	99.8	V	25.2	0.7	0.0	24.5	38.5	-13.9	
848.31	95.0	H	20.4	0.7	0.0	19.7	38.5	-18.7	
						•			

#### **PCS Output Power (EIRP)**

f	SA reading	Ant. Pol.	SG reading	CL	Gain	EIRP	Limit	Margin	Notes
GHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Chan	nel								
1.850	92.0	V	18.0	0.9	8.3	25.4	33.0	-7.6	
1.850	97.6	H	21.6	0.9	8.3	29.0	33.0	-4.0	
Mid Chani	nel								
1.880	92.4	V	19.3	0.9	8.3	26.7	33.0	-6.3	
1.880	97.3	Н	22.5	0.9	8.3	29.9	33.0	-3.1	
High Char	ınel								
1.910	92.3	V	19.0	0.9	8.4	26.5	33.0	-6.5	
1.910	97.4	H	22.3	0.9	8.4	29.8	33.0	-3.2	
	^		^			^		······	

#### 7.3. FREQUENCY STABILITY

#### **LIMIT**

22.355 Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C–1 of this section.

For Mobile devices operating in the 824 to 849 MHz band at a power level less than or equal to 3 Watts, the limit specified in Table C-1 is  $\pm$ 2.5 ppm.

§24.235 The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### **TEST PROCEDURE**

ANSI / TIA / EIA 603C Clause 2.3.1 and 2.3.2

#### **RESULTS**

No non-compliance noted.

#### 800MHz CELLULAR CDMA- MID CHANNEL

Reference Frequency: CELL Mid Channel 836.50000MHz @ 25*C								
	Limit: ± 2.5 ppm = 2089.548 Hz							
Power Supply	Environment	Frequency Deviation Measureed with Time Elapse						
(Vdc)	Temperature (*C)	(MHz)	Delta (ppm)	Limit (ppm)				
3.70	50	835.819441	-0.104	± 2.5				
3.70	40	835.819254	0.120	± 2.5				
3.70	30	835.819385	-0.037	± 2.5				
3.70	25	835.81935	0	± 2.5				
3.70	20	835.819626	-0.325	± 2.5				
3.70	10	835.819153	0.240	± 2.5				
3.70	0	835.819032	0.385	± 2.5				
3.70	-10	835.819176	0.213	± 2.5				
3.70	-20	835.819345	0.011	± 2.5				
3.70	-30	835.819549	-0.233	± 2.5				
3.145	25	835.81818	1.408	± 2.5				
4.255	25	835.81950	-0.172	± 2.5				

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#### 1900MHz PCS CDMA – MID CHANNEL

Reference Frequency: PCS Mid Channel 1879.306663MHz @ 25*C							
Limit: to stay within the authorized block							
Power Supply	Environment	Frequency Deviation Measureed with Time Elapse					
(Vdc)	Temperature (*C)	(MHz)	Delta (ppm)	Limit (ppm)			
3.70	50	1879.306308	0.189	± 2.5			
3.70	40	1879.30647	0.102	± 2.5			
3.70	30	1879.306350	0.167	± 2.5			
3.70	25	1879.306663	0.000	± 2.5			
3.70	20	1879.306415	0.132	± 2.5			
3.70	10	1879.306397	0.142	± 2.5			
3.70	0	1879.306318	0.184	± 2.5			
3.70	-10	1879.306326	0.179	± 2.5			
3.70	-20	1879.306356	0.163	± 2.5			
3.70	-30	1879.306384	0.148	± 2.5			
3.145	25	1879.3064760	0.100	± 2.5			
4.255	25	1879.306725	-0.033	± 2.5			

#### SPURIOUS EMISSION AT ANTENNA TERMINAL 7.4.

§22.917 (e) and §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  $+ 10 \log (P) dB$ .

#### **TEST PROCEDURE**

ANSI / TIA / EIA 603C Clause 2.2.12, FCC 22.917 (h), & FCC 24.238 (b)

The spectrum was investigated up to at least the tenth harmonic of the highest fundamental frequency. The cellular band was investigated to 10GHz and the PCS band was investigated to 20GHz.

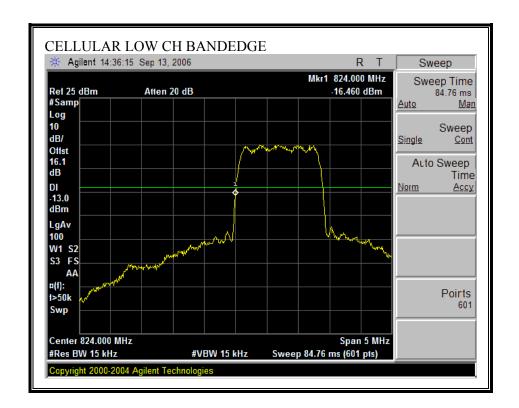
#### **RESULTS**

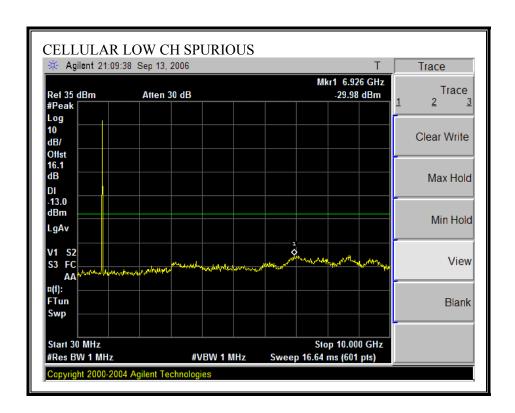
No non-compliance noted.

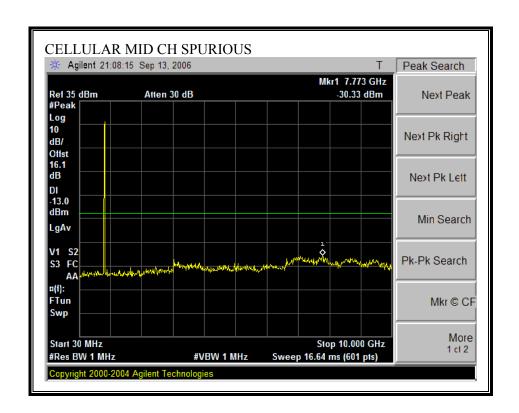
DATE: NOVEMBER 6, 2006

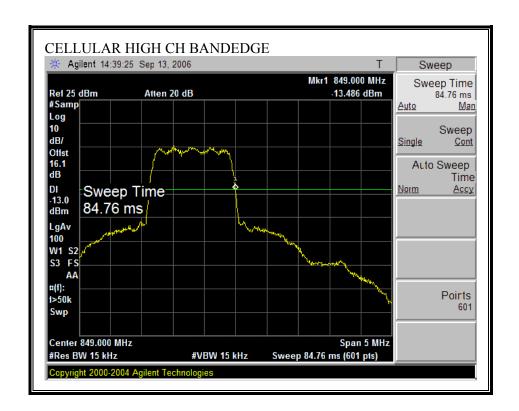
FCC ID: EHA-04CN3

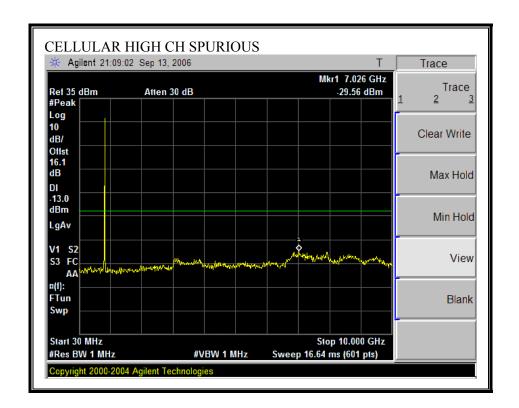
#### 800MHz CELLULAR



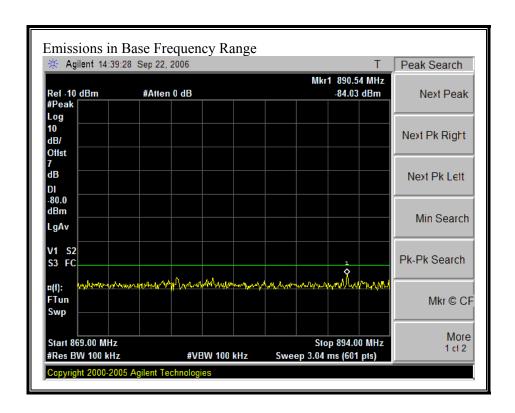




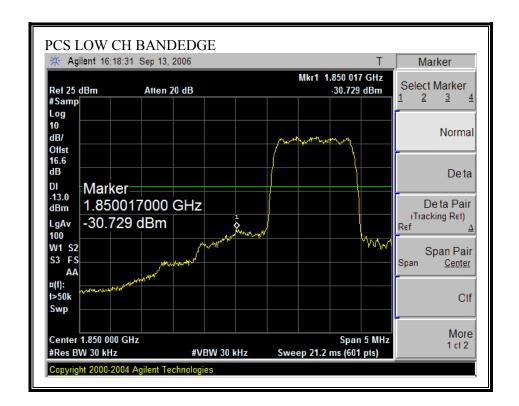


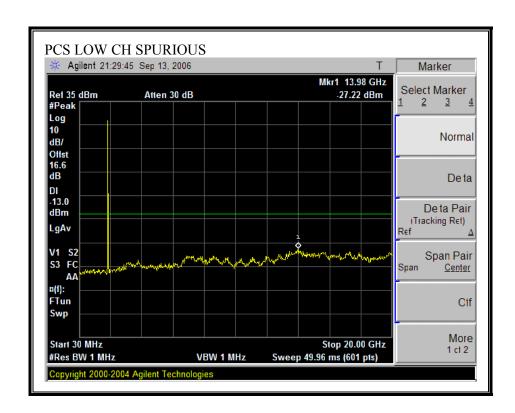


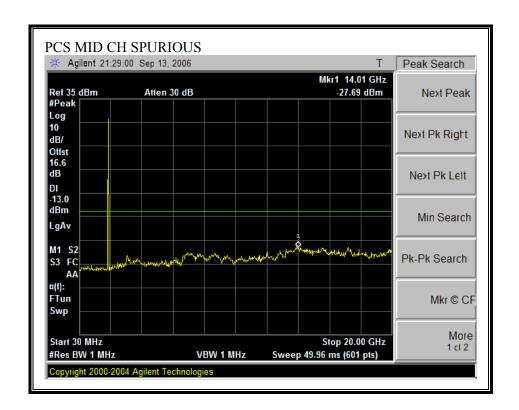
#### 800MHz Cellular Mobile Emissions in Base Frequency Range

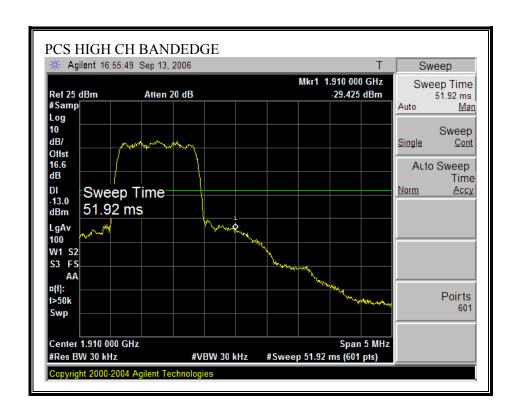


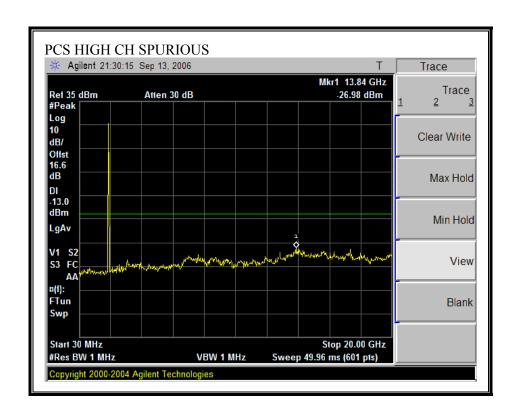
#### **1900MHZ PCS**











### 7.5. FIELD STRENGTH OF SPURIOUS RADIATION

#### **LIMIT**

§22.917 (e) and §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.

### **TEST PROCEDURE**

ANSI / TIA / EIA 603C Clause 2.2.12, FCC 22.917 (h), & FCC 24.238 (b)

The spectrum was investigated up to at least the tenth harmonic of the highest fundamental frequency. The cellular band was investigated to 10GHz and the PCS band was investigated to 20GHz.

#### **RESULTS**

No non-compliance noted.

<u>Note:</u> No emissions were found within 30-1000MHz of 20dB below the system noise No non-compliance noted.

DATE: NOVEMBER 6, 2006 FCC ID: EHA-04CN3

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### 800MHz Band CDMA Spurious & Harmonic (ERP)

Cellular Harmonic Substitution Measurement Compliance Certification Services, Morgan Hill Immunity Chamber

Company:Northwest EMC Project #:06U10562 Date:9/23/2006 Test Engineer:Chin Pang

Test Engineer: Chin Pang Configuration: EUT only Mode: Cell, 1xRTT CDMA

Test Equipment:

Receiving: Horn T59, Pre-amp T34, Chin SMA Cables 2 & 12 ft (Setup this one for testing EUT)

Substitution: Horn T60, 6ft SMA Cable Warehouse S/N: 208947 002

f	SA reading	Ant. Pol.	SG reading	CL	Gain	ERP	Limit	Margin	Notes
GHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
Low Chan	nel (824.7MHz)								
1.649	52.5	V	-60.8	0.8	4.9	-56.7	-13.0	-43.7	
2.474	48.3	V	-62.1	1.0	7.1	-55.9	-13.0	-42.9	
3.299	47.8	V	-57.7	1.2	7.3	-51.6	-13.0	-38.6	
1.649	47.5	H	-66.8	0.8	4.9	-62.7	-13.0	-49.7	
2.474	48.5	H	-62.2	1.0	7.1	-56.0	-13.0	-43.0	
3.299	45.8	H	-61.6	1.2	7.3	-55.5	-13.0	-42.5	
Mid Chan	nel (836.52MHz)								
1.673	50.0	V	-63.1	0.8	5.0	-58.9	-13.0	-45.9	
2.510	52.0	V	-57.4	1.0	7.1	-51.3	-13.0	-38.3	
3.346	47.7	V	-59.1	1.2	7.3	-52.9	-13.0	-39.9	
1.673	48.3	H	-65.9	0.8	5.0	-61.7	-13.0	-48.7	
2.510	50.6	H	-60.4	1.0	7.1	-54.3	-13.0	-41.3	
3.346	46.0	H	-61.6	1.2	7.3	-55.4	-13.0	-42.4	
High Cha	nnel (848.31MHz)								
1.697	51.5	V	-61.4	0.8	5.1	-57.1	-13.0	-44.1	
2.545	49.0	v	-59.8	1.0	7.1	-53.6	-13.0	-40.6	
3.393	47.2	v	-59.3	1.2	7.4	-53.1	-13.0	-40.1	
1.697	49.5	H	-64.2	0.8	5.1	-59.9	-13.0	-46.9	
2.545	47.4	H	-63.9	1.0	7.1	-57.8	-13.0	-44.8	
3.393	45.0	H	-62.6	1.2	7.4	-56.4	-13.0	-43.4	
0.000	-2.0		-02.0			-20.4	-10.0	-10.7	

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### PCS Spurious & Harmonic (EIRP):

PCS Harmonic Substitution Measurement
Compliance Certification Services, Morgan Hill Immunity Chamber

Company:Northwest EMC Project #:06U10562 Date:9/23/2006 Test Engineer:Chin Pang Configuration:EUT only

Mode:TX, PCS 1xRTT CDMA

Test Equipment:

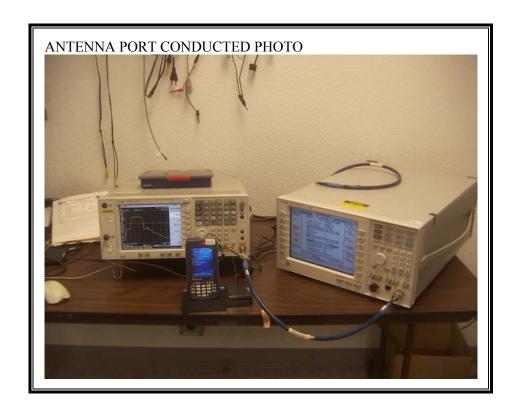
Receiving: Horn T59, Pre-amp T34, and Chin SMA Cables 2 & 12 ft (Setup this one for testing EUT)

Substitution: Horn T60, and 6ft SMA Cable Warehouse S/N: 208947 002

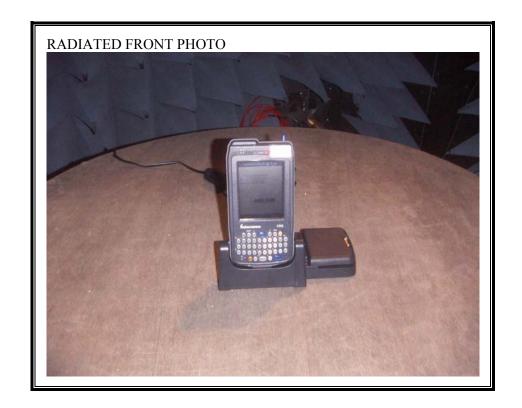
f	SA reading	Ant. Pol.	SG reading	CL	Gain	EIRP	Limit	Margin	Notes
GHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Chan	nel (1851.25MHz)								
3.703	54.5	V	-50.5	1.2	9.7	-42.1	-13.0	-29.1	
5.554	49.4	V	-53.1	1.6	11.0	-43.7	-13.0	-30.7	
7.405	51.0	V	-48.6	1.9	12.0	-38.5	-13.0	-25.5	
3.703	53.0	H	-53.5	1.2	9.7	-45.1	-13.0	-32.1	
5.554	48.0	H	-54.0	1.6	11.0	-44.6	-13.0	-31.6	
7.405	50.0	H	-48.7	1.9	12.0	-38.6	-13.0	-25.6	
Mid Chan	nel (1880MHz)								
3.760	54.0	V	-50.5	1.3	9.7	-42.1	-13.0	-29.1	
5.640	47.0	V	-55.8	1.7	11.2	-46.3	-13.0	-33.3	
7.520	50.0	V	-50.4	1.9	12.0	-40.3	-13.0	-27.3	
3.760	56.0	H	-50.1	1.3	9.7	-41.6	-13.0	-28.6	
5.640	48.0	H	-53.9	1.7	11.2	-44.4	-13.0	-31.4	
7.520	47.5	Н	-51.6	1.9	12.0	-41.5	-13.0	-28.5	
High Cha	innel (1908.75MHz	)							
3.818	66.0	V	-38.2	1.3	9.7	-29.8	-13.0	-16.8	
5.726	47.0	V	-55.5	1.7	11.3	-45.9	-13.0	-32.9	
7.635	52.0	V	-48.0	1.9	12.0	-37.8	-13.0	-24.8	
3.818	69.2	H	-36.2	1.3	9.7	-27.7	-13.0	-14.7	
5.726	50.0	H	-52.2	1.7	11.3	-42.6	-13.0	-29.6	
7.635	52.0	H	-46.9	1.9	12.0	-36.8	-13.0	-23.8	

# 8. SETUP PHOTOS

### ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP

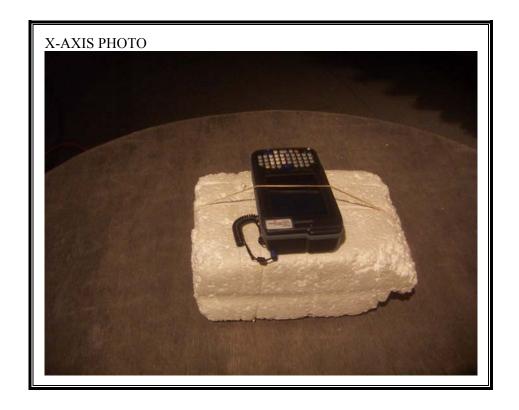


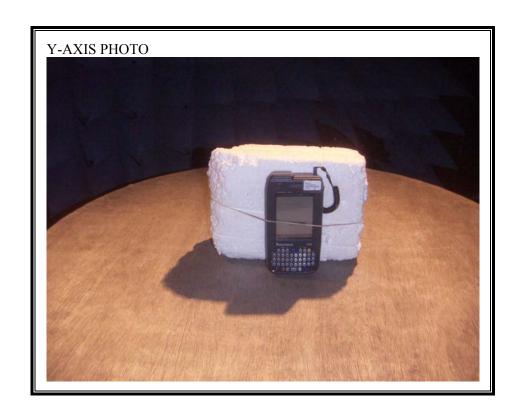
## RADIATED RF MEASUREMENT SETUP FOR MOBILE CONFIGURATION

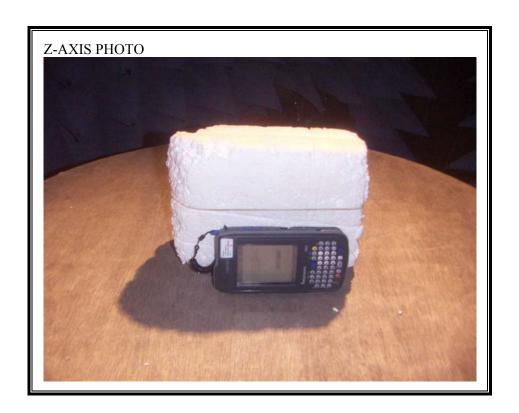




## RADIATED RF MEASUREMENT SETUP FOR PORTABLE CONFIGURATION







# **END OF REPORT**