

FCC CFR47 PART 22 SUBPART H AND PART 24 SUBPART E CERTIFICATION

TEST REPORT FOR

EXPRESS MINI-PCI USB WIRELESS CDMA MODEM MODULE

MODEL NUMBER: MC5720

FCC ID: N7N-MC5720

REPORT NUMBER: 05U3389-1

ISSUE DATE: MAY 02, 2005

Prepared for

SIERRA WIRELESS
2290 COSMOS CT.
CARLSBAD CALIFORNIA 92009
U.S.A

Prepared by

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d.b.a.

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REPORT NO: 05U3389-1 DATE: MAY 02, 2005 EUT: MINI-PCI USB WIRELESS CDMA MODEM MODULE FCC ID: N7N-MC5720

Revision History

Rev. Revisions Revised By

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SIERRA WIRELESS

2290 COSMOS CT.

CARLSBAD CALIFORNIA 92009

U.S.A

EUT DESCRIPTION: EXPRESS MINI-PCI USB WIRELESS CDMA MODEM MODULE

MODEL: MC5720

SERIAL NUMBER: 10505

DATE TESTED: APRIL 25 TO 28, 2005

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:

THU CHAN EMC SUPERVISOR

COMPLIANCE CERTIFICATION SERVICES COMPLIA

VIEN TRAN
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

DATE: MAY 02, 2005

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA/EIA 603A (2001), 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 dual band 800 / 1900MHZ Express Mini-PCI USB Wireless CDMA Modem Module.

The module is manufactured by Flextronics Mfg. (HK) Ltd.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted average and peak 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
(MIII.)		(175.)	(WW.D	(ID)	(XX D
(MHz)		(dBm)	(mW)	(dBm)	(mW)

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)
1851.25 - 1908.75	PCS	25.72	373.25	29.65	922.57

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a Monopole 2x antenna, with a maximum allowed gain of 4.65 dBi for Cellular band and 3.35 dBi for PCS band.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was SPR The test utility software used during testing was rev 2.00.3

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was at mid-channel 836.5 MHz for 800 MHz and mid-channel 1880.0 MHz. for 1900 MHz.

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5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST					
Description	Manufacturer	Model	Serial Number	FCC ID	
DC Power Supply	HP	E3610A	NA	NA	

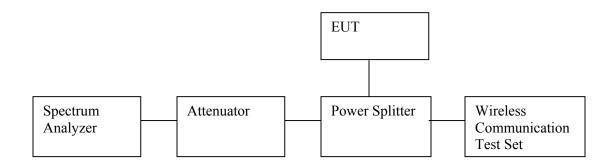
I/O CABLES

	I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks	
1	AC	1	US 115V	Un-shielded	2m	NA	
2	DC	1	DC	Un-shielded	0.5m	NA	

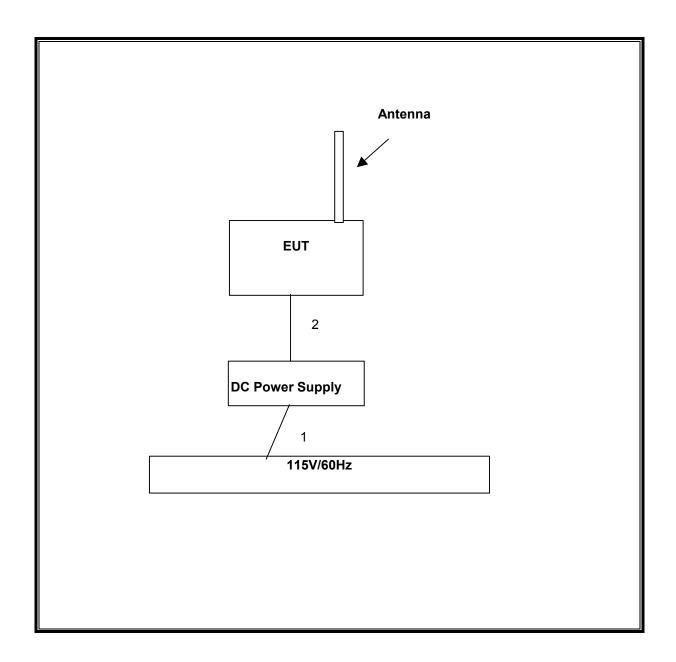
TEST SETUP

The EUT is installed as a stand-alone device during the tests. The Wireless Communication test set exercised the EUT.

CONDUCTED TEST SETUP DIAGRAM



RADIATED TEST SETUP DIAGRAM



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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	Manufacture	Model	Serial Number	Cal Due	
-	r				
SA Display Section 2	HP	85662A	2816A16696	5/24/05	
Quasi-Peak Adaptor	HP	85650A	2811A01155	5/24/05	
SA RF Section, 1.5 GHz	HP	85680B	2814A04227	2/22/05	
Preamplifier, 1300MHz	HP	8447D	2944A06833	8/17/05	
30MHz 2Ghz	Sunol Sciences	JB1 Antenna	A121003	9/22/05	
Antenna, Horn 1 ~ 18 GHz	EMCO	3117	29301	9/12/05	
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6717	9/12/05	
Amplifier 1-26GHz	MITEQ	NSP2600-SP	924341	8/17/05	
Wireless Communication Test Set	Agilent	8960 Series10	GB43344480	9/3/05	
Spectrum Analyzer, 26.5 GHz	HP	8593EM	3710A00205	1/6/06	
Dipole	EMCO	3121C-DB2	22435	3/25/06	
Signal Generator 2 -40 GHz	R&S	SMP04	DE 34210	5/2/05	
Signal Generator, 1024 MHz	R&S	SMY01	DE 12311	4/11/06	
Peak Power Meter	Agilent	E4416A	GB41291160	2/9/06	
Peak / Average Power Sensor	Agilent	E9327A	US40440755	2/10/06	
DC Power Suppy	HP	E3610A	N/A	NCR	
Power Splitter	HP	11667B	N/A	N/A	
Spectrum Analyzer	HP	E4446A	US42510266	08/25/05	

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EUT: MINI-PCI USB WIRELESS CDMA MODEM MODULE FCC ID: N7N-MC5720

7. LIMITS AND RESULTS

7.1. OCCUPIED BANDWIDTH

<u>LIMIT</u>

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:

800MHZ CELL CDMA Modulation

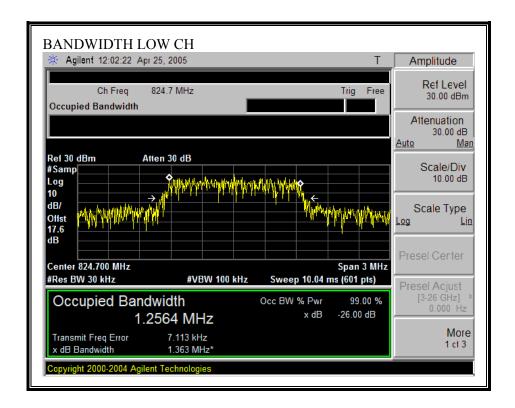
Channel	Frequency	Bandwidth
	(MHz)	(MHz)
Low	824.7	1.363
Middle	836.5	1.392
High	848.3	1.372

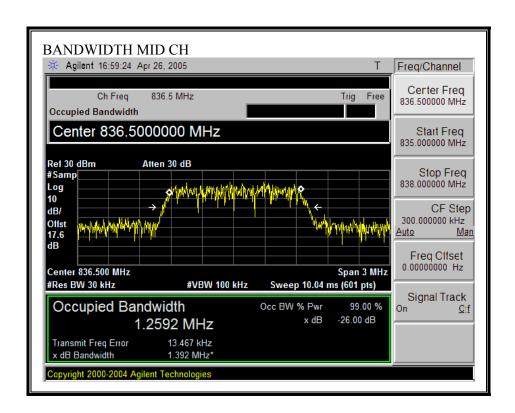
1900MHz PCS Modulation

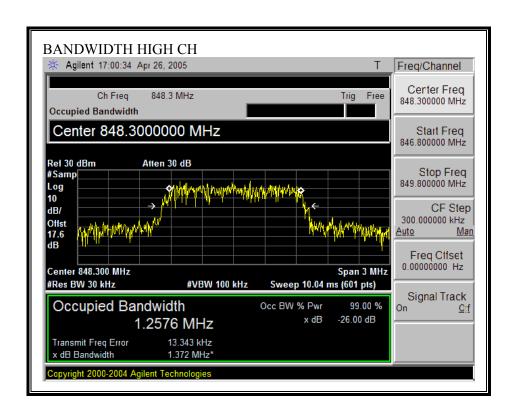
Channel	Channel Frequency Bar (MHz) (
Low	1851.25	1.400
Middle	1880	1.415
High	1908.75	1.406

DATE: MAY 02, 2005

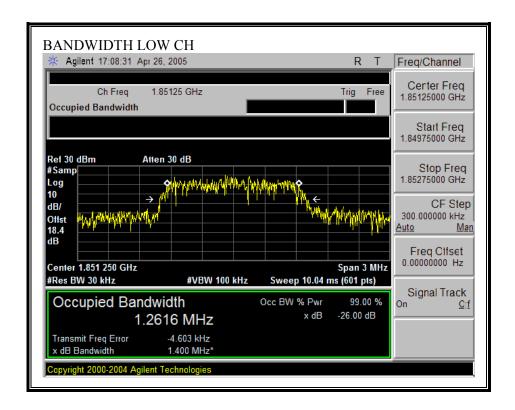
800MHz CELL CDMA 26 dB BANDWIDTH

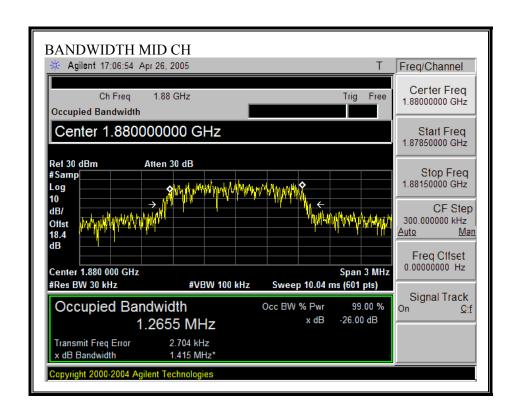


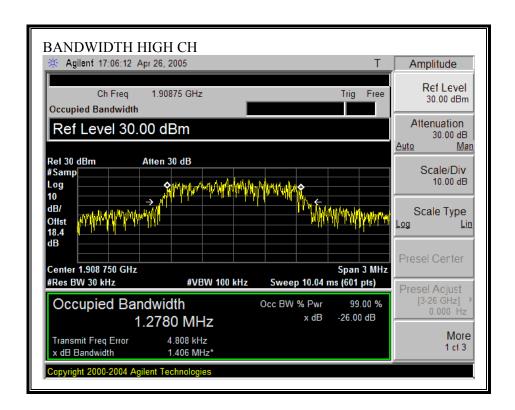




1900MHz PCS CDMA 26 dB BANDWIDTH







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 603 Clause 2.2.17 The transmitter output is connected to the spectrum analyzer.

RESULTS

No non-compliance noted.

800 MHz CELL CDMA Modulation

Channel	Frequency	ERP	ERP
		Peak Power	Peak Power
	(MHz)	(dBm)	(mW)
Low	824.7	26.70	467.74
Middle	836.5	27.20	524.81
High	848.3	26.40	436.52

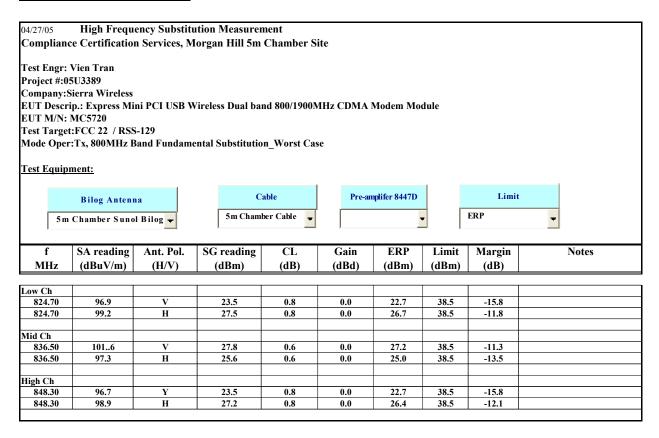
1900 MHz PCS CDMA Modulation

Channel	Frequency	EIRP	EIRP
		Peak Power	Peak Power
	(MHz)	(dBm)	(mW)
Low	1851.25	31.60	1445.44
Middle	1880.00	32.30	1698.24
High	1908.75	29.40	870.96

NOTE: RBW=VBW=3MHz.

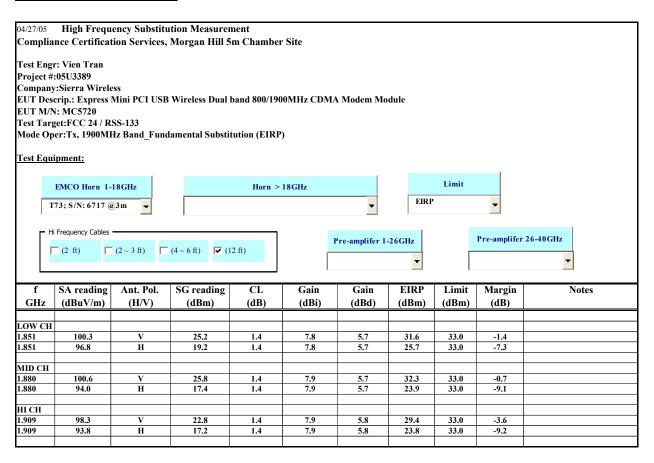
DATE: MAY 02, 2005 FCC ID: N7N-MC5720

CDMA Output Power (ERP)



NOTE: RBW=VBW=3MHz

PCS Output Power (EIRP)



NOTE: RBW=VBW=3MHz

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SPURIOUS EMISSION AT ANTENNA TERMINAL 7.3.

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

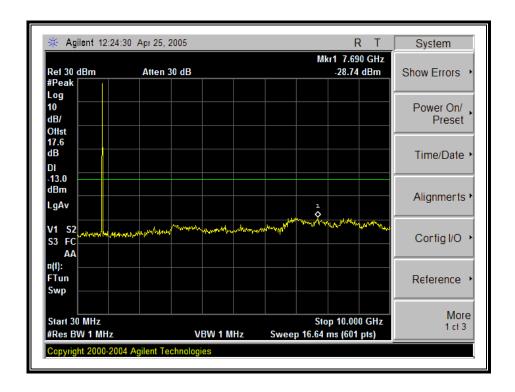
ANSI / TIA / EIA 603 Clause 3.2.12, FCC 22.917 (h), & FCC 24.238 (b)

RESULTS

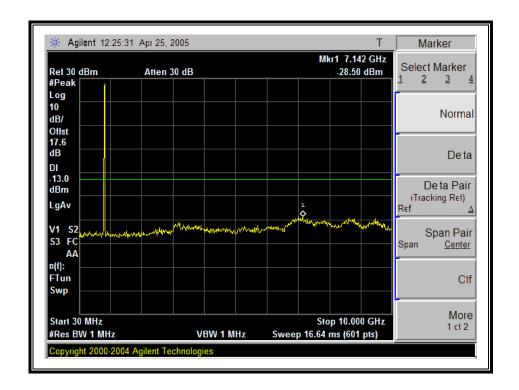
No non-compliance noted.

800MHz CELL CDMA MODULATION RESULTS

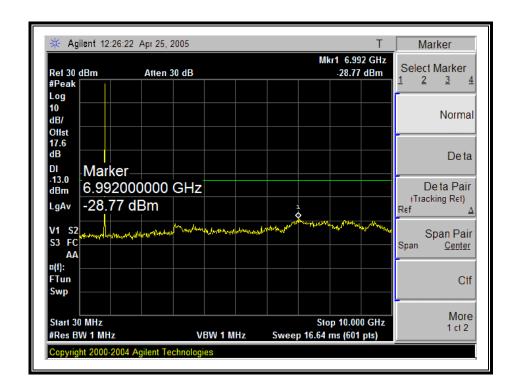
CDMA Modulation: Low Channel, Out-Of-Band Emissions



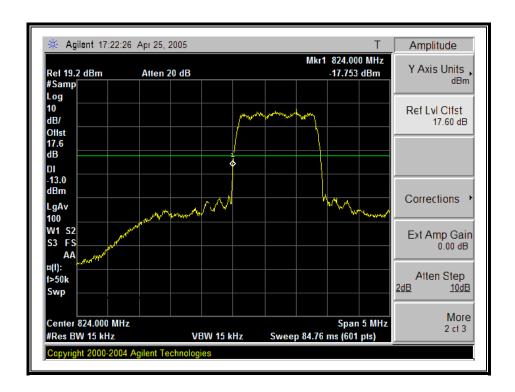
CDMA Modulation: Mid Channel, Out-Of-Band Emissions



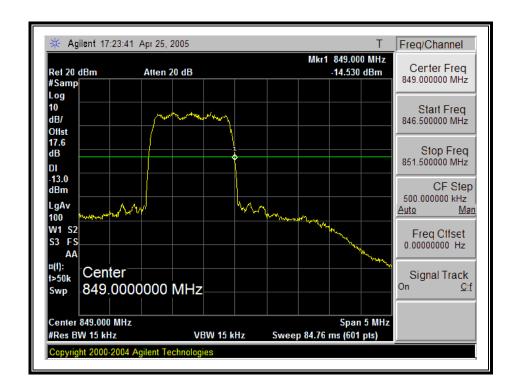
CDMA Modulation: High Channel, Out-Of-Band Emissions



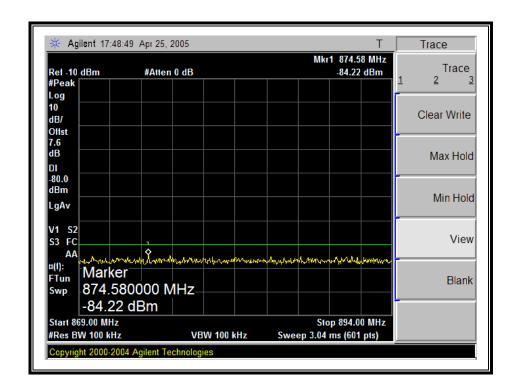
800MHz CELL CDMA Modulation: Low Channel Band Edge



800MHZ CELL CDMA Modulation: High Channel Band Edge

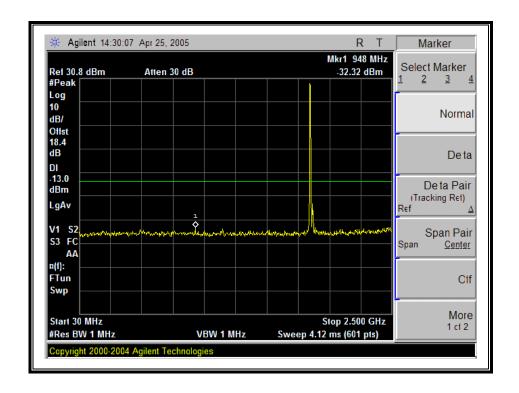


800MHZ CELL CDMA Mobile Emissions in Base Frequency Range

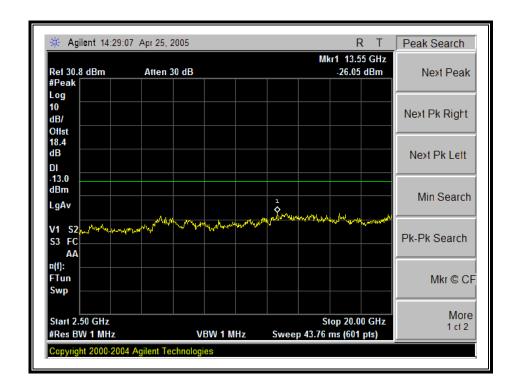


1900MHZ PCS CDMA MODULATION RESULTS

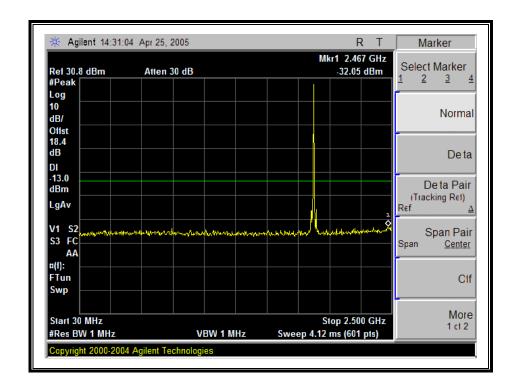
PCS CDMA Modulation: Low Channel Out-Of-Band Emissions - 30 MHz to 2.5 GHz



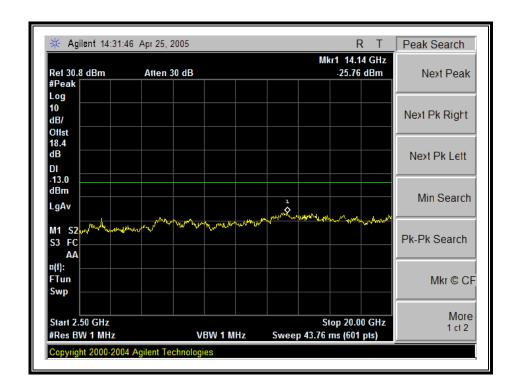
PCS CDMA Modulation: Low Channel Out-Of-Band Emissions - 2.5 GHz to 20 GHz



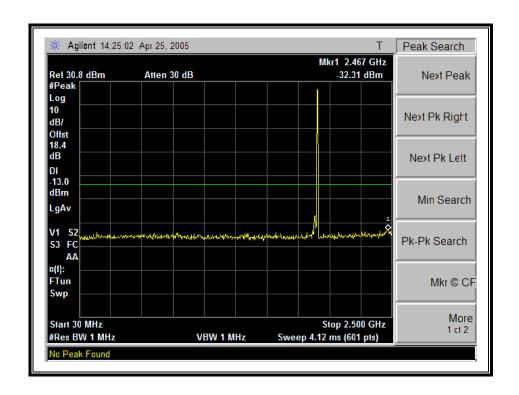
PCS CDMA Modulation: Mid Channel Out-Of-Band Emissions - 30 MHz to 2.5 GHz



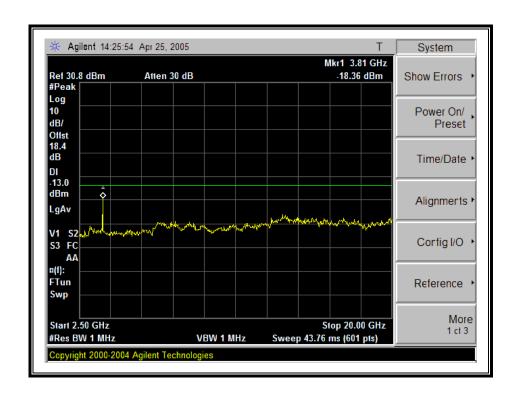
PCS CDMA Modulation: Mid Channel Out-Of-Band Emissions 2.5 GHz to 20 GHz



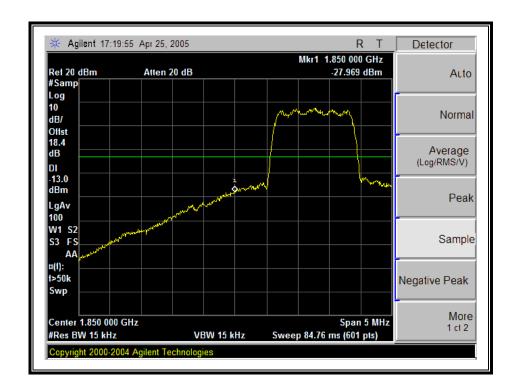
PCS CDMA Modulation: High Channel Out-Of-Band Emissions - 30 MHz to 2.5 GHz



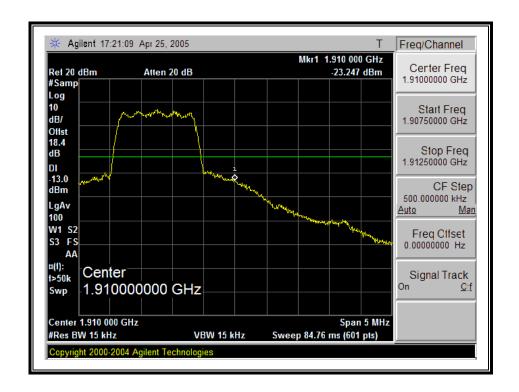
PCS CDMA Modulation: High Channel Out-Of-Band Emissions - 2.5 GHz to 20 GHz



PCS CDMA Modulation: Low Channel Band Edge



PCS CDMA Modulation: High Channel Band Edge



7.4. FIELD STRENGTH OF SPURIOUS EMISSION

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

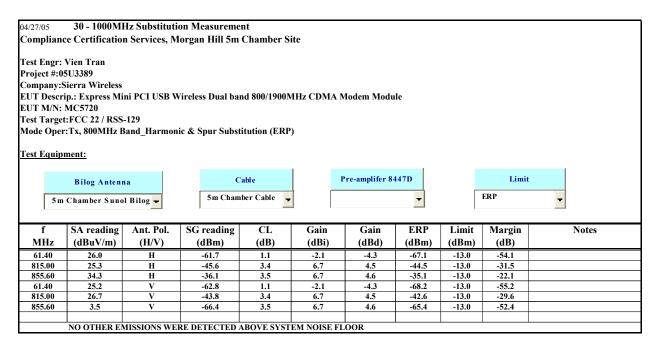
ANSI / TIA / EIA 603 Clause 3.2.12, FCC 22.917 (h), & FCC 24.238 (b)

RESULTS

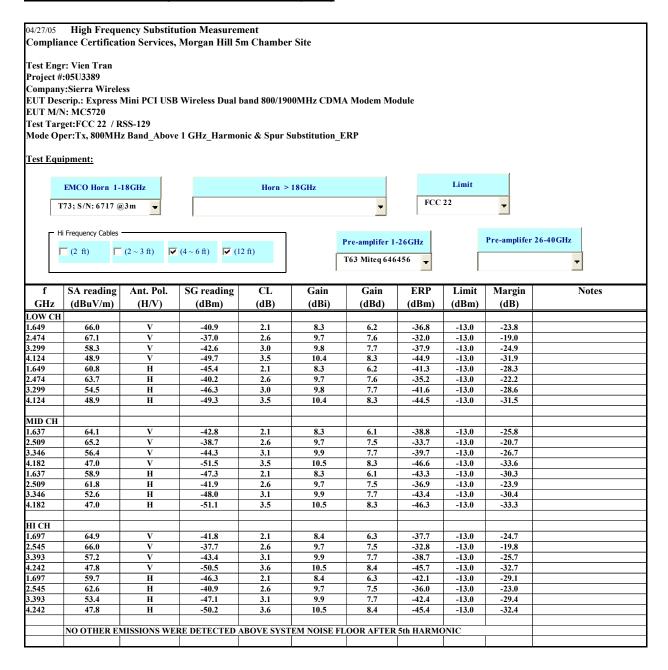
No non-compliance noted.

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800MHz Band CDMA Spurious & Harmonic (ERP), 30-1000MHz

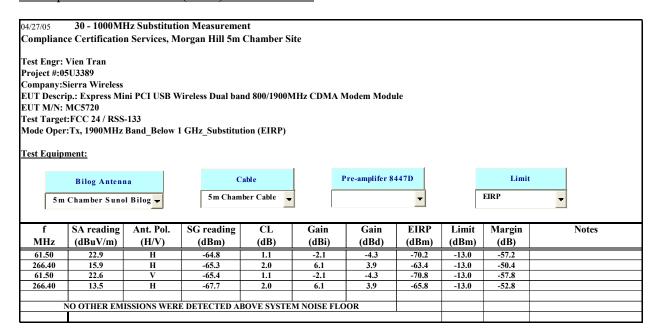


800MHz Band CDMA Spurious & Harmonic (ERP)

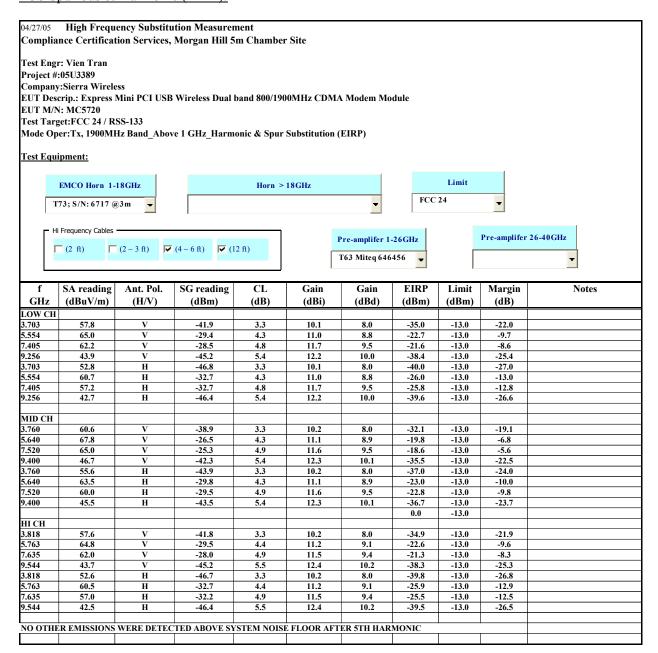


DATE: MAY 02, 2005 FCC ID: N7N-MC5720

PCS Spurious & Harmonic (EIRP): 30-1000MHz



PCS Spurious & Harmonic (EIRP):



7.5. MAXIMUM PERMISSIBLE EXPOSURE

LIMITS

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(A) Lim	its for Occupational	I/Controlled Exposu	res	
0.3–3.0	614 1842/f	1.63 4.89/f	*(100) *(900/f²)	6
30–300	61.4	0.163	1.0 f/300	6
1500–100,000			5	6
(B) Limits	for General Populati	ion/Uncontrolled Exp	posure	
0.3–1.34	614 824/f	1.63 2.19/f	*(100) *(180/f²)	30 30

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)—Continued

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
30–300 300–1500 1500–100,000	27.5	0.073	0.2 f/1500 1.0	30 30 30

f = frequency in MHz

f = frequency in MHz

* = Plane-wave equivalent power density

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their
employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for
exposure or can part exercise control over their exposure.

exposure or can not exercise control over their exposure.

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CALCULATIONS

Given

 $E = \sqrt{(30 * P * G) / d}$

and

 $S = E ^2 / 3770$

where

E = Field Strength in Volts/meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power Density in milliwatts/square centimeter

Combining equations and rearranging the terms to express the distance as a function of the remaining variables yields:

$$d = \sqrt{((30 * P * G) / (3770 * S))}$$

Changing to units of Power to mW and Distance to cm, using:

P(mW) = P(W) / 1000 and

d (cm) = 100 * d (m)

yields

 $d = 100 * \sqrt{((30 * (P / 1000) * G) / (3770 * S))}$

 $d = 0.282 * \sqrt{(P * G / S)}$

where

d = distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power Density in mW/cm^2$

Substituting the logarithmic form of power and gain using:

 $P (mW) = 10 ^ (P (dBm) / 10)$ and

 $G \text{ (numeric)} = 10 ^ (G \text{ (dBi)} / 10)$

yields

 $d = 0.282 * 10 ^ ((P + G) / 20) / \sqrt{S}$

where

d = MPE distance in cm

P = Power in dBm

G = Antenna Gain in dBi

 $S = Power Density Limit in mW/cm^2$

Equation (1) and the measured peak power is used to calculate the MPE distance.

Equation (1)

LIMITS

From $\S1.1310$ Table 1 (B), $S = 1.0 \text{ mW/cm}^2$

RESULTS

No non-compliance noted:

Mode	Power Density	Output	Antenna	MPE
	Limit	Power	Gain	Distance
	(mW/cm^2)	(dBm)	(dBi)	(cm)
800MHz Celllar	0.6	29.84	4.65	19.98
1900 MHz PCS	1.0	29.65	3.35	12.60

NOTE: For mobile or fixed location transmitters, the minimum separation distance is 20 cm, even if calculations indicate that the MPE distance would be less.

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7.6. 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 603 Clause 2.3.1 and 2.3.2

RESULTS

No non-compliance noted.

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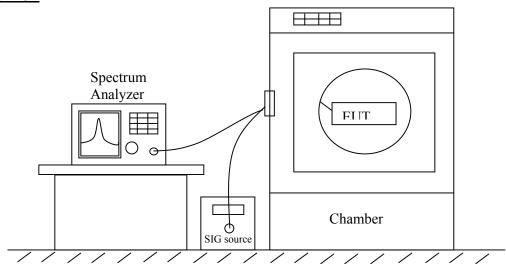
INSTRUMENTS LIST

TEST EQUIPMENT LIST						
Name of Equipment	Manufacturer	Model No.	Serial No.	Due Date		
Temperature / Humidity Chamber	Thermotron	SE 600-10-10	29800	05/13/2005		
Peak Power Meter	Agilent	E4416A	GB41291160	02/09/2006		
Peak / Average Power Sensor	Agilent	E9327A	US40440755	02/10/2006		
DC Power Suppy	Kenwood	PA-36-3A	N/A	NCR		
Power Splitter	HP	11667B	N/A	N/A		
Spectrum Analyzer	HP	E4446A	US42510266	08/25/05		

Detector Function Setting of Test Receiver

Frequency Range (MHz)	Detector Function	Resolution Bandwidth	Video Bandwidth
Mid Channel	Peak	300 Hz	300 Hz

TEST SETUP



800MHz CELLULAR - MID CHANNEL

Refere	Reference Frequency: CELLULAR Mid Channel 835.829500MHz @ 20*C				
	Limit: to stay +- 2.5 ppm = 2089.574 Hz				
Power Supply	Environment Frequency Deviation Measureed with Time Elapse			th Time Elapse	
(Vdc)	Temperature (*C)	(MHz)	Delta (ppm)	Limit (ppm)	
5.00	50	835.827967	1.834	2.5	
5.00	40	835.828720	0.933	2.5	
5.00	30	835.830120	-0.742	2.5	
5.00	20	835.829500	0	2.5	
5.00	10	835.829877	-0.451	2.5	
5.00	0	835.830045	-0.652	2.5	
5.00	-10	835.830235	-0.879	2.5	
5.00	-20	835.830281	-0.934	2.5	
5.00	-30	835.830320	-0.981	2.5	

Reference Frequency: CDMA Mid Channel 835.829500MHz @ 20*C Limit: to stay +- 2.5 ppm = 2089.574 Hz				
Power Supply	Environment	Frequency Dev	viation Measureed wi	th Time Elapse
(Vdc)	Temperature (*C)	(MHz)	Delta (ppm)	Limit (ppm)
5.00	20	835.829500	0	2.5
3.8 (end point)	20	835.829164	0.402	2.5
4.25	20	835.829332	0.201	2.5
5.75	20	835.829597	-0.116	2.5

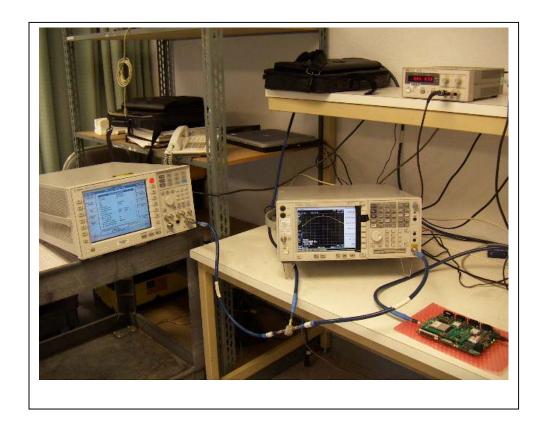
1900MHz PCS – MID CHANNEL

Ref	erence Frequency: F	PCS Mid Channel 1	879.304572MHz @ 2	0*C	
	Limit: within the authorized block or +- 2.5 ppm = 4698.261 Hz				
Power Supply	Environment	Environment Frequency Deviation Measureed with Time Elapse			
(Vdc)	Temperature (?C)	(MHz)	Delta (ppm)	Limit (ppm)	
5.00	50	1879.300913	1.947	2.5	
5.00	40	1879.302737	0.976	2.5	
5.00	30	1879.302806	0.940	2.5	
5.00	20	1879.304572	0	2.5	
5.00	10	1879.305045	-0.252	2.5	
5.00	0	1879.305241	-0.356	2.5	
5.00	-10	1879.305378	-0.429	2.5	
5.00	-20	1879.306015	-0.768	2.5	
5.00	-30	1879.306191	-0.861	2.5	

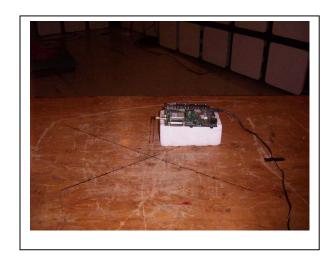
Reference Frequency: CDMA Mid Channel 1879.304.572MHz @ 20?C Limit: within the authorized block or +- 2.5 ppm = 4698.261 Hz				
Power Supply	Environment	Frequency Dev	viation Measureed wi	th Time Elapse
(Vdc)	Temperature (*C)	(MHz)	Delta (ppm)	Limit (ppm)
5.00	20	1879.304572	0	2.5
3.8(end point)	20	1879.301226	1.780	2.5
3.0(ena point)	20	107 3.30 1220	1.700	2.0
4.25	20	1879.302899	0.890	2.5

8. SETUP PHOTOS

ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP

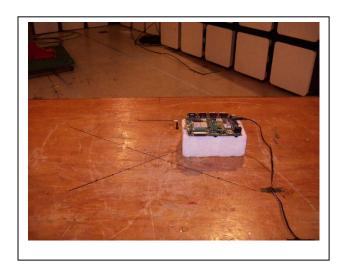


RADIATED RF MEASUREMENT SETUP





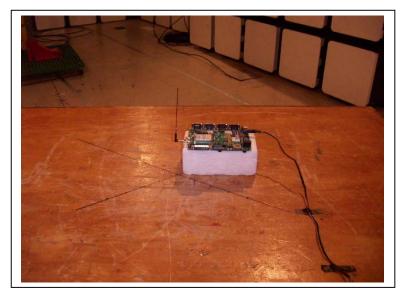
Y-Position X-Position



Z-Position

RADIATED EMISSIONS SEUP PHOTO

Worst Case for 800 MHz: Y Position

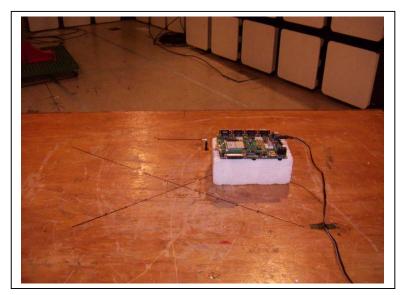


Front



Back

Worst Case for 1900 MHz: Z Position



Front



Back

FREQUENCY STABILITY MEASUREMENT SETUP PHOTO



END OF REPORT