FCC CFR47 PART 22 SUBPART H
FCC CFR47 PART 24 SUBPART E
CLASS II PERMISSIVE CHANGE

CERTIFICATION TEST REPORT

FOR

USB MODEM WITH EXTERNAL MONOPOLE ANTENNA

MODEL NUMBER: AC250U

FCC ID: N7NAC250U

REPORT NUMBER: 10U13334-1

ISSUE DATE: AUGUST 10, 2010

Prepared for

SIERRA WIRELESS INC.
2200 FARADAY AVENUE, SUITE 150
CARLSBAD, CA 92008, U.S.A.

Prepared by

COMPLIANCE CERTIFICATION SERVICES
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
---	08/10/10	Initial Issue	T. Chan

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SIERRA WIRELESS INC.
2200 FARADAY AVENUE, SUITE 150
CARLSBAD, CA 92008, U.S.A.

EUT DESCRIPTION: USB MODEM WITH EXTERNAL MONOPOLE ANTENNA

MODEL: AC250U

SERIAL NUMBER: 3

DATE TESTED: AUGUST 03 - 06, 2010

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC PART 22H and 24E	PASS

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by CCS based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. 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 CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For CCS By:

THU CHAN
ENGINEERING MANAGER
COMPLIANCE CERTIFICATION SERVICES

Tested By:

CHIN PANG
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-C, FCC CFR 47 Part 2, FCC CFR 47 Part 22, and FCC CFR Part 24.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

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. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 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 Multi band wireless modem operating on CDMA2000 1xRTT, EVDO and WiMax networks. The USB modem is manufactured by Sierra Wireless.

5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The major change filed under this application is adding an external multi-band monopole antenna for AC250U.

5.3. MAXIMUM RF CONDUCTED OUTPUT POWER

The test measurement passed within ± 0.5dBm of the original output power.

5.4. MAXIMUM RF RADIATED OUTPUT POWER

The transmitter has a maximum ERP / EIRP output power as follows:

Part 22 Cellular Band

Frequency range (MHz)	Modulation	ERP	
		dBm	mW
824.7 – 848.31	1xRTT (RC1, SO55)	26.9	489.8
824.7 – 848.31	EV-DO - REV A	27.1	512.9

Part 24 PCS Band

Frequency range (MHz)	Modulation	EIRP	
		dBm	mW
1851.25 – 1908.8	1xRTT (RC1, SO55)	29.1	812.8
1851.25 – 1908.8	EV-DO - REV A	29.3	851.1

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an external multi-band monopole antenna for the 800MHz and 1900MHz bands with a maximum peak gain of 0.2dBi for Cell band and 4.6dBi for PCS band.

5.6. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was P2A11600.

The EUT driver software installed during testing was Alta-MUX 0.55, software version, 2.7.

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5.7. WORST-CASE CONFIGURATION AND MODE

The worst-position was the EUT with highest emissions, to determine the worst-case,
Worst case modes:

- For Cellular and PCS band: 1xRTT (RC1 SO55)
- For Cellular and PCS band: CDMA2000 1xEV-DO Revision A (Rev. A)

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
Laptop	IBM	Thinkpad T60	ZZ89085	DoC
AC Adapter	IBM	92P1158	570002150B	DoC
Monopole Antenna	Sierra Wireless	NA	NA	NA

I/O CABLES (RF RADIATED TEST)

I/O CABLE LIST						
Cable No.	**Port**	**# of Identica Ports**	**Connector Type**	**Cable Type**	**Cable Length**	**Remarks**
1	AC	2	US 115V	Un-shielded	2m	NA
2	DC	1	DC	Un-shielded	2m	NA
3	RF In/Out	1	Horn	Un-shielded	2m	NA
4	Antenna Port	1	Monopole Antenna	Un-shielded	0.2m	NA

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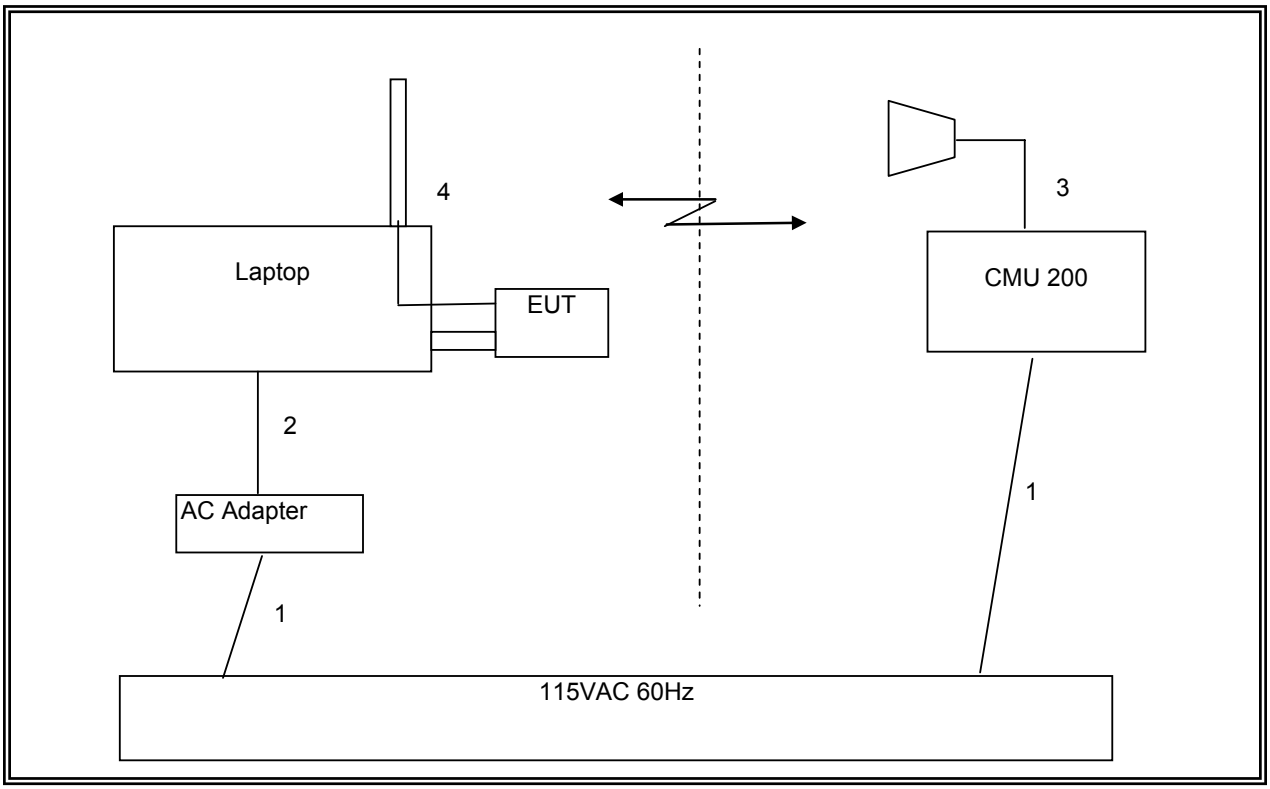
SETUP DIAGRAM FOR RDIATED TESTS



TEST SETUP

The EUT is a stand-alone device. The Wireless Communication test set exercised the EUT.

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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**	**Asset**	**Cal Due**
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	08/04/11
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01016	07/14/11
Antenna, Horn, 18 GHz	EMCO	3115	C00783	07/29/11
Communication Test Set	R & S	CMU 200	C01131	02/27/11
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	08/31/10
Highpass Filter, 2.7 GHz	Micro-Tronics	HPM13194	N02687	CNR
Highpass Filter, 1.5 GHz	Micro-Tronics	HPM13193	N02688	CNR

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7. RADIATED TEST RESULTS

7.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232

LIMITS

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

24.232(c) - 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

MODES TESTED

- 1xRTT – RC1, SO55
- CDMA2000 1xEV-DO Revision A (Rev. A)

RESULTS for Cellular Band (ERP)

Mode	Channel	f (MHz)	ERP	
			dBm	mW
1xRTT (RC1, SO55)	1013	824.70	26.60	457.09
	384	836.52	26.90	489.78
	777	848.31	26.40	436.52
EVDO-REV A	1013	824.70	27.00	501.19
	384	836.52	27.10	512.86
	777	848.31	26.50	446.68

RESULTS for PCS Band (EIRP)

Mode	Channel	f (MHz)	EIRP (Standard Cover)	
			dBm	mW
1xRTT (RC1, SO55)	25	1851.25	28.80	758.58
	600	1880.00	29.10	812.83
	1175	1908.75	28.60	724.44
EVDO-REV A	25	1851.25	28.40	691.83
	600	1880.00	29.30	851.14
	1175	1908.75	28.70	741.31

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ERP for 1xRTT Mode (Cellular Band)

High Frequency Substitution Measurement
Compliance Certification Services Chamber B

Company: Sierra Wireless
Project #: 10U13334
Date: 8/3/2010
Test Engineer: Chin Pang
Configuration:EUT and Laptop with external monopole antenna
Mode:TX, CDMA2000 1xRTT

Test Equipment:
Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT)
Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch							
824.70	-6.0	V	32.6	26.6	38.5	-11.9	
824.70	-6.6	H	30.4	23.8	38.5	-14.7	
Mid Ch							
836.52	-5.8	V	32.7	26.9	38.5	-11.6	
836.52	-6.7	H	30.7	24.0	38.5	-14.4	
High Ch							
848.31	-5.6	V	32.0	26.4	38.5	-12.1	
848.31	-8.5	H	30.8	22.3	38.5	-16.2	

Rev. 1.24.7

ERP for CDMA2000 1xEV-DO Rev. A (Cellular Band)

High Frequency Substitution Measurement
Compliance Certification Services Chamber B

Company: Sierra Wireless
Project #: 10U13334
Date: 8/3/2010
Test Engineer: Chin Pang
Configuration:EUT and Laptop with external monopole antenna
Mode:TX, CDMA2000 EVDO Rev A

Test Equipment:
Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT)
Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch							
824.70	-5.6	V	32.6	27.0	38.5	-11.5	
824.70	-5.5	H	30.4	24.9	38.5	-13.6	
Mid Ch							
836.52	-5.6	V	32.7	27.1	38.5	-11.4	
836.52	-5.9	H	30.7	24.9	38.5	-13.6	
High Ch							
848.31	-5.5	V	32.0	26.5	38.5	-12.0	
848.31	-6.0	H	30.8	24.8	38.5	-13.7	

Rev. 1.24.7

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EIRP for 1xRTT Mode (PCS Band)

High Frequency Fundamental Measurement
Compliance Certification Services Chamber B

Company:Sierra Wireless
Project #:10U13334
Date: 8/3/10
Test Engineer: Chin Pang
Configuration:EUT and Laptop with external monopole antenna
Mode:TX, PCS CDMA2000 1xRTT

Test Equipment:
Receiving: Horn T59, and Camber B SMA Cables
Substitution: Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse

f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch							
1.851	-11.4	V	40.2	28.8	33.0	-4.2	
1.851	-13.2	H	39.5	26.3	33.0	-6.7	
Mid Ch							
1.880	-11.1	V	40.3	29.1	33.0	-3.9	
1.880	-13.0	H	40.1	27.1	33.0	-5.9	
High Ch							
1.909	-11.6	V	40.2	28.6	33.0	-4.4	
1.909	-14.4	H	40.1	25.7	33.0	-7.3	

Rev. 1.24.7

EIRP for CDMA2000 1xEV-DO Rev. A

High Frequency Fundamental Measurement
Compliance Certification Services Chamber B

Company:Sierra Wireless
Project #:10U13334
Date: 8/3/10
Test Engineer: Chin Pang
Configuration:EUT and Laptop with external monopole antenna
Mode:TX, PCS CDMA2000 EVDO Rev A

Test Equipment:
Receiving: Horn T59, and Camber B SMA Cables
Substitution: Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse

f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch							
1.851	-11.8	V	40.2	28.4	33.0	-4.6	
1.851	-14.8	H	39.5	24.7	33.0	-8.3	
Mid Ch							
1.880	-11.0	V	40.3	29.3	33.0	-3.8	
1.880	-12.8	H	40.1	27.3	33.0	-5.7	
High Ch							
1.909	-11.5	V	40.2	28.7	33.0	-4.3	
1.909	-13.2	H	40.1	26.9	33.0	-6.1	

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7.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238

LIMIT

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

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

MODES TESTED

- 1xRTT – RC1, SO55
- CDMA2000 1xEV-DO Revision A (Rev. A)

RESULTS

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1xRTT Mode (Cellular Band)

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company:Sierra Wireless
Project #:10U13334
Date:8/3/10
Test Engineer:Chin Pang
Configuration:EUT and Laptop with external monopole antenna
Mode:TX, Cell, CDMA2000 1xRTT

Chamber	Pre-amplifer	Filter	Limit
5m Chamber B	T145 8449B	Filter 1	Part 22

f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz										
1.649	-53.8	H	3.0	37.2	35.5	1.0	-51.1	-13.0	-38.1	
2.474	-63.0	H	3.0	39.8	35.4	1.0	-57.6	-13.0	-44.6	
1.649	-54.0	V	3.0	36.8	35.5	1.0	-51.7	-13.0	-38.7	
2.474	-62.3	V	3.0	41.7	35.4	1.0	-55.0	-13.0	-42.0	
Mid Ch, 836.52MHz										
1.673	-55.5	H	3.0	37.5	35.5	1.0	-52.6	-13.0	-39.6	
2.510	-61.0	H	3.0	39.9	35.4	1.0	-55.5	-13.0	-42.5	
1.673	-50.6	V	3.0	37.1	35.5	1.0	-48.0	-13.0	-35.0	
2.510	-57.0	V	3.0	41.8	35.4	1.0	-49.6	-13.0	-36.6	
High Ch, 848.31MHz										
1.697	-54.0	H	3.0	37.7	35.5	1.0	-50.8	-13.0	-37.8	
2.545	-62.0	H	3.0	40.1	35.4	1.0	-56.3	-13.0	-43.3	
1.697	-51.2	V	3.0	37.4	35.5	1.0	-48.3	-13.0	-35.3	
2.545	-57.5	V	3.0	42.0	35.4	1.0	-50.0	-13.0	-37.0	

Rev. 03.03.09
Notel No other emissions were detected above the system noise floor.

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CDMA2000 1xEV-DO Rev. A (Cellular Band)

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company:Sierra Wireless
Project #:10U13334
Date:8/3/10
Test Engineer:Chin Pang
Configuration:EUT and Laptop with external monopole antenna
Mode:TX, Cell, CDMA2000 EVDO Rev A

Chamber	Pre-amplifer	Filter	Limit
5m Chamber B	T145 8449B	Filter 1	Part 22

f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz										
1.649	-46.0	H	3.0	37.2	35.5	1.0	-43.3	-13.0	-30.3	
2.474	-48.4	H	3.0	39.8	35.4	1.0	-43.0	-13.0	-30.0	
1.649	-44.5	V	3.0	36.8	35.5	1.0	-42.2	-13.0	-29.2	
2.474	-44.8	V	3.0	41.7	35.4	1.0	-37.5	-13.0	-24.5	
Mid Ch, 836.52MHz										
1.673	-45.5	H	3.0	37.5	35.5	1.0	-42.6	-13.0	-29.6	
2.510	-44.0	H	3.0	39.9	35.4	1.0	-38.5	-13.0	-25.5	
1.673	-45.2	V	3.0	37.1	35.5	1.0	-42.6	-13.0	-29.6	
2.510	-42.5	V	3.0	41.8	35.4	1.0	-35.1	-13.0	-22.1	
High Ch, 848.31MHz										
1.697	-51.5	H	3.0	37.7	35.5	1.0	-48.3	-13.0	-35.3	
2.545	-45.4	H	3.0	40.1	35.4	1.0	-39.7	-13.0	-26.7	
1.697	-45.0	V	3.0	37.4	35.5	1.0	-42.1	-13.0	-29.1	
2.545	-45.2	V	3.0	42.0	35.4	1.0	-37.7	-13.0	-24.7	

Rev. 03.03.09
Note: No other emisions were detected above the system noise floor.

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1xRTT Mode (PCS Band)

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company:Sierra Wireless
Project #:10U13334
Date:8/3/10
Test Engineer:Chin Pang
Configuration:EUT and Laptop with external monopole antenna
Mode:TX, PCS, CDMA2000 1xRTT

Chamber	Pre-amplifer	Filter	Limit
5m Chamber B	T145 8449B	Filter 1	Part 24

f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25MHz										
3.703	-65.2	H	3.0	45.3	35.4	1.0	-54.2	-13.0	-41.2	
5.554	-67.0	H	3.0	50.0	35.4	1.0	-51.4	-13.0	-38.4	
3.703	-65.0	V	3.0	45.1	35.4	1.0	-54.2	-13.0	-41.2	
5.554	-66.5	V	3.0	49.2	35.4	1.0	-51.7	-13.0	-38.7	
Mid Ch, 1880Mhz										
3.760	-63.2	H	3.0	45.5	35.3	1.0	-52.0	-13.0	-39.0	
5.640	-67.2	H	3.0	50.2	35.4	1.0	-51.5	-13.0	-38.5	
3.760	-62.5	V	3.0	45.3	35.3	1.0	-51.6	-13.0	-38.6	
5.640	-67.0	V	3.0	49.3	35.4	1.0	-52.1	-13.0	-39.1	
High Ch, 1908.75MHz										
3.818	-66.0	H	3.0	45.7	35.3	1.0	-54.6	-13.0	-41.6	
5.726	-66.5	H	3.0	50.3	35.4	1.0	-50.6	-13.0	-37.6	
3.818	-65.0	V	3.0	45.4	35.3	1.0	-53.9	-13.0	-40.9	
5.726	-67.0	V	3.0	49.4	35.4	1.0	-52.1	-13.0	-39.1	

Rev. 03.03.09
Note: No other emissions were detected above the system noise floor.

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CDMA2000 1xEV-DO Rev. A (PCS Band)

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company:Sierra Wireless
Project #:10U13334
Date:8/3/10
Test Engineer:Chin Pang
Configuration:EUT and Laptop with external monopole antenna
Mode:TX, PCS, CDMA2000 EVDO Rev A

Chamber	Pre-amplifer	Filter	Limit
5m Chamber B	T145 8449B	Filter 1	Part 24

f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25MHz										
3.703	-60.6	H	3.0	45.3	35.4	1.0	-49.6	-13.0	-36.6	
5.554	-58.2	H	3.0	50.0	35.4	1.0	-42.6	-13.0	-29.6	
3.703	-58.6	V	3.0	45.1	35.4	1.0	-47.8	-13.0	-34.8	
5.554	-59.1	V	3.0	49.2	35.4	1.0	-44.3	-13.0	-31.3	
Mid Ch, 1880MHz										
3.760	-56.4	H	3.0	45.5	35.3	1.0	-45.2	-13.0	-32.2	
5.640	-59.3	H	3.0	50.2	35.4	1.0	-43.6	-13.0	-30.6	
3.760	-53.0	V	3.0	45.3	35.3	1.0	-42.1	-13.0	-29.1	
5.640	-58.2	V	3.0	49.3	35.4	1.0	-43.3	-13.0	-30.3	
High Ch, 1908.75MHz										
3.818	-55.8	H	3.0	45.7	35.3	1.0	-44.4	-13.0	-31.4	
5.726	-58.8	H	3.0	50.3	35.4	1.0	-42.9	-13.0	-29.9	
3.818	-53.5	V	3.0	45.4	35.3	1.0	-42.4	-13.0	-29.4	
5.726	-58.0	V	3.0	49.4	35.4	1.0	-43.1	-13.0	-30.1	

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Note: No other emissions were detected above the system noise floor.

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