

FCC CFR47 PART 22H AND 24E &

INDUSTRY CANADA RSS-132 AND RSS-133 CLASS II PERMISSIVE CHANGE CERTIFICATION TEST REPORT

FOR

PCA, EVDO MINI-PCI EXPRESS CARD CDMA MODEM

MODEL NUMBER: MC5727, MC5727V

FCC ID: N7N-MC5725 IC: 2417C-MC5725

REPORT NUMBER: 08U11847-1, Revision B

ISSUE DATE: JULY 22, 2008

Prepared for

SIERRA WIRELESS INC. 2290 COSMOS CT. CARLSBAD, CA 92010, 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
	06/11/08	Initial Issue	T. Chan
A	07/10/08	Added model 5727V to report	A. Zaffar
В	07/22/08	Updated Section 5.3 & Removed MPE Section	T. Chan

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1. TEST RESULT CERTIFICATION

COMPANY NAME: SIERRA WIRELESS

2290 COSMOS CT.

CARLSBAD, CA, 92010 U.S.A.

EUT DESCRIPTION: PCA, EVDO MINI-PCI EXPRESS CARD CDMA MODEM

SERIAL NUMBER: P721128001710-10

MODEL NAMES: MC5727, MC5727V

DATE TESTED: JUNE 2 – JUNE 9, 2008

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
FCC PART 22H and 24E	PASS			
IC RSS-132 ISSUE 2 and RSS-133 ISSUE 4	PASS			

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All expressions of Pass/Fail in this report are opinions expressed by CCS based on interpretations of the test results. 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:

/ Chy

THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

MENGISTU MEKURIA EMC ENGINEER COMPLIANCE CERTIFICATION SERVICES

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with RSS-GEN, RSS132, RSS133, ANSI C63.4-2003, and TIA/EIA 603C (2004).

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. 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
Radiated Emission, Above 2000 MHz	+/- 4.3 dB
Power Line Conducted Emission	+/- 2.9 dB

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

REPORT NO: 08U10847-1B FCC ID: N7N-MC5725

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a dual band, 800/1900MHz, PCA EVDO Mini-PCI Express Card CDMA Modem. The module manufactured by Sierra Wireless, Inc.

ATE: JULY 22, 2008

5.2. DESCRIPTION OF CLASS II CHANGE



ATE: JULY 22, 2008

IC: 2417C-MC5725

Date: 7/2/08

Federal Communications Commission Authorization and Evaluation Division 7435 Oakland Mills Road Columbia, MD 21046

Attn: OET Dept.

Ref: FCC Class II Permissive change for FCC ID: N7N-MC5725

(Original Grant date: 5/15/2006) Applicant: Sierra Wireless

Dear Examiner,

This is to request a Class II permissive change for FCC ID: N7N-MC5725, originally granted on 5/15/2006. This change also applies to FCC ID: N7N-MC5727 which is electrically identical.

The change filed under this application is:

The hardware changes to support the Qualcomm – Broadcom FTS litigation. The components were highlited in the submitted schematic diagram and PCB layout documents.

If you have any questions regarding this application, please feel free to contact me.

Sincerely,

Todd Van Cleave

Manager Engineering Services
Carlsbad Research & Development

Sierra Wireless America, Inc.

5.3. MAXIMUM OUTPUT POWER

The transmitter has a maximum radiated emission peak output powers as follows:

824 to 849 MHz Authorized Band

Frequency Range (MHz)	Modulation	Conducted Average (dBm)	Conducted Peak Power (dBm)	Conducted Peak Power (mW)
Low CH - 824.7	1 v E\ /DO Dov	24.80	29.25	841.40
Mid CH - 836.5	1 x EVDO, Rev Δ	24.86	29.23	837.53
High CH - 848.3		24.55	28.64	731.14

1850 to 1910 MHz Authorized Band

Frequency Range	Modulation	Conducted Average Power	Conducted Peak Power	Conducted Peak Power
(MHz)		(dBm)	(dBm)	(mVV)
Low CH - 1851.25	1 x EVDO, Rev	24.96	28.70	741.31
Mid CH - 1880	A EVDO, Rev	25.26	28.91	778.04
High CH - 1908.75		24.94	28.20	660.69

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a dipole antenna with a maximum gain of 0dBi for Cellular band PCS bands.

5.5. SOFTWARE AND FIRMWARE

The EUT is linked with Agilent Communication Test Set.

5.6. WORST-CASE CONFIGURATION AND MODE

PROCEDURE USED TO ESTABLISH TEST SIGNAL

3G-CDMA2000 1xEV-DO Revision A (Rev A)

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

Application Rev. License 1xEV-DO Terminal Test A.06.06, L

RETAP

- Call Setup > Shift & Preset
- Protocol Rev > A (1xEV-DO-A)
- Application Config > Enhanced Test Application Protocol > RETAP
- F-Traffic Format > 4 (1024, 2,128) Canonical (307.2k, QPSK)
- R-Data Pkt Size > 4096 (for PCS band), 12288 (for Cellular band)
- Protocol Subtype Config > Release A Physical Layer Subtype > Subtype 2
 > PL Subtype 2 Access Channel MAC Subtype > Default (Subtype 0)
- Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
- Generator Info > Termination Parameters > Max Forward Packet Duration >16 Slots
 > ACK R-Data After > Subpacket 0 (All ACK)
- Rvs Power Ctrl > All Up bits (to get the maximum power)

EV-DO REV A Worst Case Data

Based on the previous test results from the different modulations, EV-DO, REV A Protocol RETAP to be the worst-case scenario for Cell and PCS bands.

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was at mid channel for both CELL and PCS bands.

During emission tests two antenna orientations, X and Y, were investigated to determine the worst-case. The outcome showed that X-orientation as the worst-case.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST							
Description	Manufacturer	Model	Serial Number	FCC ID			
AC Adapter	ELPAC	W1505	14416	N/A			
Test Fixture	Sierra Wireless	1200981-REV 3.X	MC00395	N/A			
Wireless Communications Test Set	Agilent	E5515C	10092	DoC			
Directional Coupler	Narda	4242-10	3423	N/A			

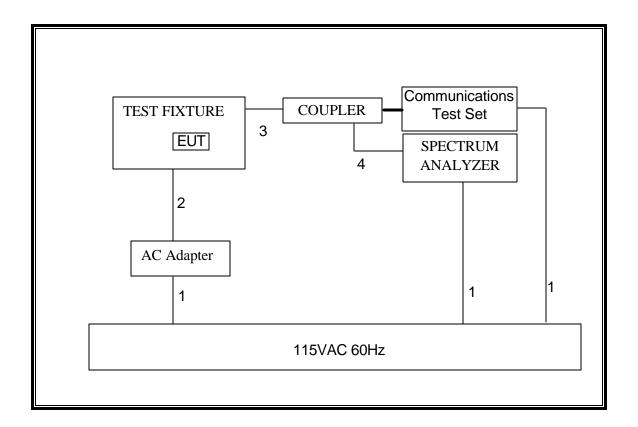
I/O CABLES

	I/O CABLE LIST							
Cable	Port	# of	Connector	Cable	Cable	Remarks		
No.		Identical	Type	Type	Length			
		Ports						
1	AC	1	US 115V	Un-shielded	2.0 m	NA		
2	DC	1	DC	Un-shielded	2.0 m	Ferrite on DC end		
3	RF In/Out	1	SMA	Shielded	1.0 m	NA		
4	RF In/Out	1	SMA	Shielded	0.5 m	NA		

TEST SETUP

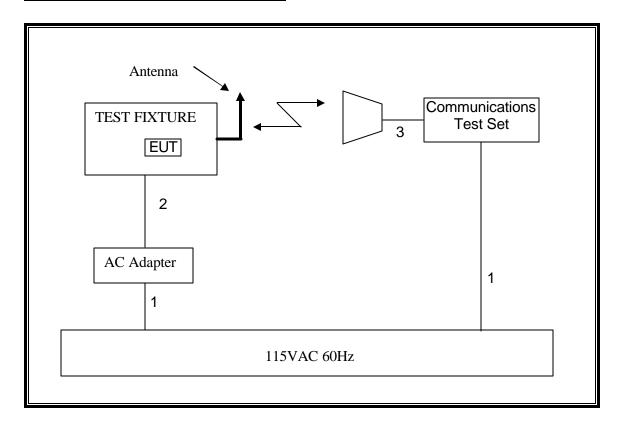
The EUT is installed in a Test Kit during the tests, and the EUT is linked with Agilent Communication Test Set.

SETUP DIAGRAM FOR CONDUCTED TESTS



ATE: JULY 22, 2008

SETUP DIAGRAM FOR RADIATED TESTS



ATE: JULY 22, 2008

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	Seriai Number	Cal Due			
EMI Test Receiver, 30 MHz	R&S	ESHS 20	N02396	08/06/09			
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	10/25/08			
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNC	N02481	10/25/08			
Preamp 30-1000MHz	Sonoma Instrument	310N	185623	03/31/09			
Antenna, Bilog 30 MHz ~ 2 Ghz	Sunol Sciences	JB1	A121003	10/25/08			
Spectrum Analyzer 3 Hz ~ 44 GHz	Agilent / HP	E4446A	MY43360112	03/03/09			
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	2238	04/22/09			
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6717	04/22/09			
Preamplifier, 1 ~ 26.5 GHz	Agilent / HP	8449B	3008A00369	09/27/08			
Temperature / Humidity Chamber	Thermotron	SE 600-10-10	29800	05/13/09			
Wireless Communications Test Set	Agilent	E5515C	10092	06/29/08			
2.7GHz HPF	MicroTronic	HPM13194	2	CNR			
1.5GHz HPF	MicroTronic	HPM13195	1	CNR			
Signal Generator 2 -40 GHz	R&S	SMP04	DE 34210	02/16/09			
Signal Generator 1024 MHz	R&S	SMY01	DE 12311	05/28/09			
Dipole	ETS	3121C-DB2	22435	06/08/09			

7. LIMITS AND RESULTS

7.1. OCCUPIED BANDWIDTH

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 99% bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% and -26 dB bandwidths function are utilized.

RESULTS

No non-compliance noted.

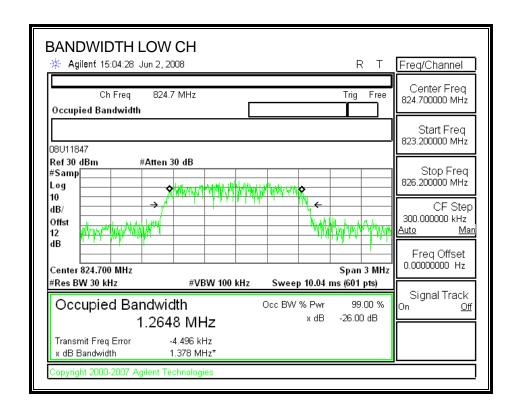
CELL, CDMA Modulation

Channel	Frequency (MHz)	99% BW (MHz)	-26dB BW (MHz)
Low	824.70	1.265	1.378
Middle	836.52	1.266	1.382
High	848.31	1.269	1.384

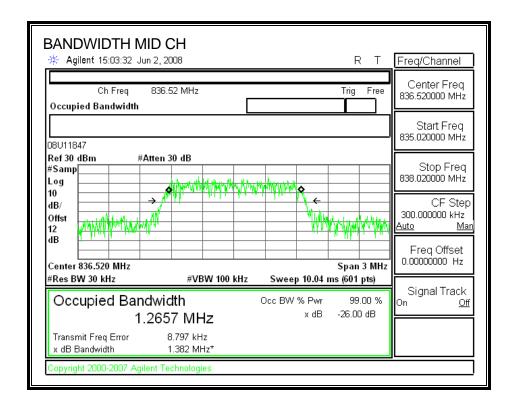
PCS, CDMA Modulation

Channel	Frequency (MHz)	99% BW (MHz)	-26dB BW (MHz)
Low	1851.25	1.285	1.456
Middle	1880.00	1.292	1.499
High	1908.75	1.294	1.429

CELL, CDMA BANDWIDTH



ATE: JULY 22, 2008



Transmit Freq Error

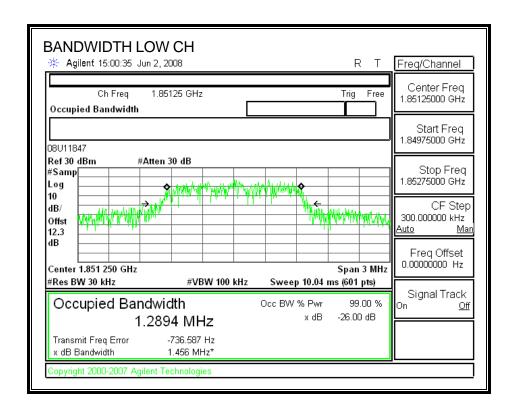
x dB Bandwidth

-890.072 Hz

1.384 MHz*

ATE: JULY 22, 2008

PCS, CDMA BANDWIDTH



ATE: JULY 22, 2008

1.2923 MHz 198.394 Hz

1.499 MHz*

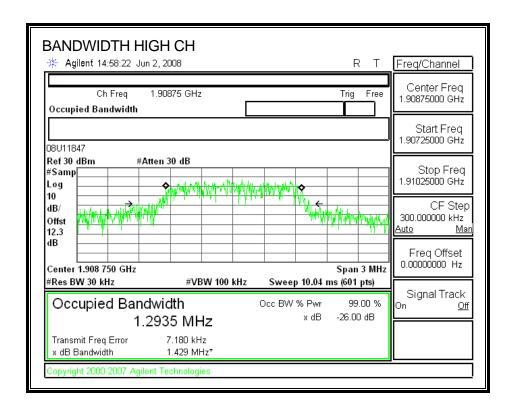
Transmit Freq Error x dB Bandwidth

opyright 2000-2007 Agilent Technologies

x dB

-26.00 dB

ATE: JULY 22, 2008



7.2. RF POWER OUTPUT

<u>LIMIT</u>

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

24.232(b) & RSS133 § 6.4 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.

RSS-132 § 4.4 The maximum ERP shall be 6.3 Watts for mobile stations.

TEST PROCEDURE

RSS-132, RSS-133, & ANSI / TIA / EIA 603C Clause 2.2.17

RESULTS

No non-compliance noted.

CELL, CDMA Modulation

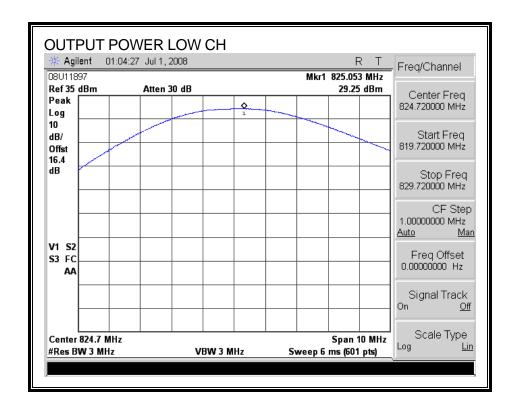
Channel	Frequency	Conducted	Conducted	ERP	ERP
		Peak Power	Peak Power	Peak Power	Peak Power
	(MHz)	(dBm)	(mW)	(dBm)	(mW)
Low	824.7	29.25	841.40	29.00	794.33
Middle	836.5	29.23	837.53	29.60	912.01
High	848.3	28.64	731.14	29.70	933.25

PCS. CDMA Modulation

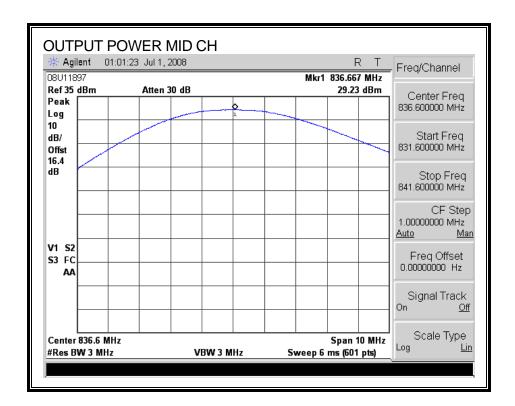
Channel	Frequency	Conducted	Conducted	EIRP	EIRP	
		Peak Power	Peak Power	Peak Power	Peak Power	
	(MHz)	(dBm)	(mW)	(dBm)	(mW)	
Low	1851.25	28.70	741.31	27.90	616.60	
Middle	1880.00	28.91	778.04	28.30	676.08	
High	1908.75	28.20	660.69	27.60	575.44	

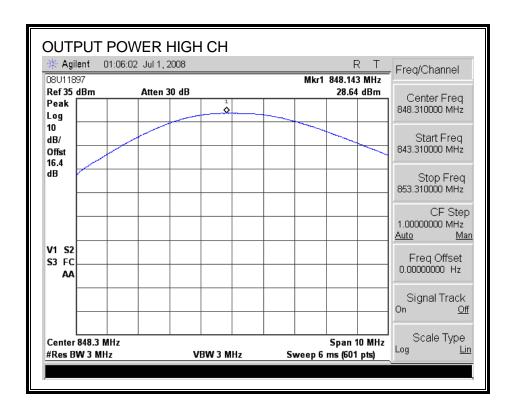
NOTE: RBW=VBW=3MHz

CELL, CDMA RF CONDUCTED OUTPUT POWER

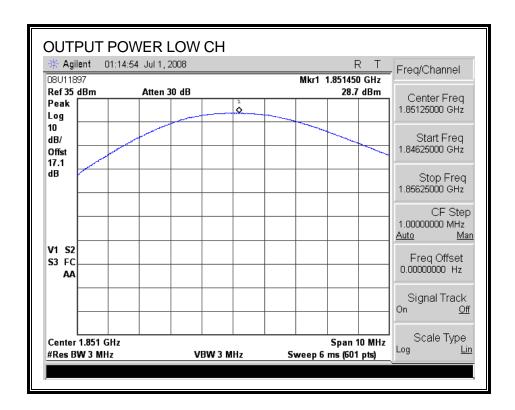


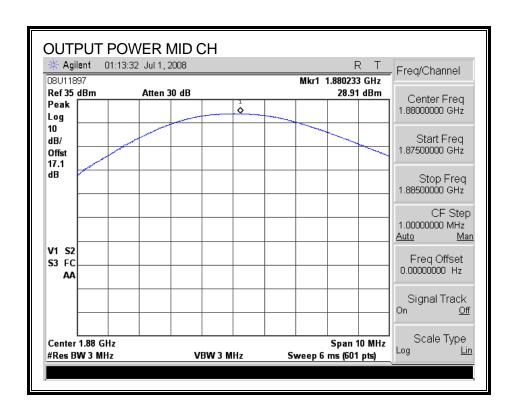
ATE: JULY 22, 2008



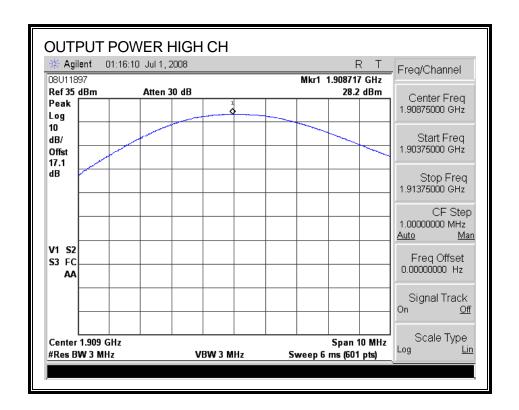


PCS, CDMA RF CONDUCTED OUTPUT POWER





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CELL, CDMA OUTPUT POWER (ERP)

High Frequency Substitution Measurement

Compliance Certification Services, Fremont 5m Chamber A

Company: SIERRA WIRELESS INC.

 Project #:
 08U11847

 Date:
 6/4/2008

Test Engineer: MENGISTU MEKURIA

Configuration: EUT WITH SUPPORT TEST FIXTURE

Mode: CELL, CDMA MODULATION TX MODE

Test Equipment:

Receiving: Sunol T130, and 5m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, and 4ft SMA Cable Warehouse S/N: 177081003.

f	SA reading	Ant. Pol.	SG reading	CL	Gain	ERP	Limit	Margin	Notes
МHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
824.70	96.3	V	22.8	0.5	0.0	22.3	38.5	-16.2	
824.70	105.5	H	29.5	0.5	0.0	29.0	38.5	-9.4	
836.52	96.3	V	23.2	0.0	0.0	22.6	38.5	-15.8	
836.52	105.7	H	30.2	0.6	0.0	29.6	38.5	-8.9	
848.31	96.6	V	23.4	0.7	0.0	22.7	38.5	-15.8	
848.31	106.5	H	30.4	0.7	0.0	29.7	38.5	-8.8	

Rev. 1.24.7

REPORT NO: 08U10847-1B FCC ID: N7N-MC5725 ATE: JULY 22, 2008

IC: 2417C-MC5725

PCS, CDMA OUTPUT POWER (EIRP)

High Frequency Fundamental Measurement

Compliance Certification Services, Fremont 5m Chamber A

Company: SIERRA WIRELESS INC.

Project #: 08U11847
Date: 6/4/2008

Test Engineer: MENGISTU MEKURIA

Configuration: EUT WITH SUPPORT TEST FIXTURE

Mode: PCS, CDMA MODULATION TX MODE

Test Equipment:

Receiving: Horn T60, and 12ft S/N: 197209005 (Setup this one for testing EUT) Substitution: Horn T73 Substitution, 4ft SMA Cable Warehouse S/N: 177081003

f	SA reading	Ant. Pol.	SG reading	CL	Gain	EIRP	Limit	Margin	Notes
GHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
1.851	93.0	v	20.4	0.7	8.3	27.9	33.0	-5.1	
1.851	89.4	H	16.2	0.7	8.3	23.7	33.0	-9.3	
1.880	93.1	V	20.7	0.7	8.3	28.3	33.0	-4.7	
1.880	6.88	H	15.6	0.7	8.3	23.2	33.0	-9.8	
1.909	92.3	V	20.0	0.7	8.4	27.6	33.0	-5.4	
1.909	0.68	H	13.7	0.7	8.4	21.3	33.0	-11.7	

Rev. 1.24.7

7.3. SPURIOUS EMISSION AT ANTENNA TERMINAL

<u>LIMIT</u>

§22.917 (e) and §24.238 (a), RSS-132 § 4.5.1, & RSS-133 § 6.5.1 (a) (i) & (b): 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), RSS-132, & RSS-133

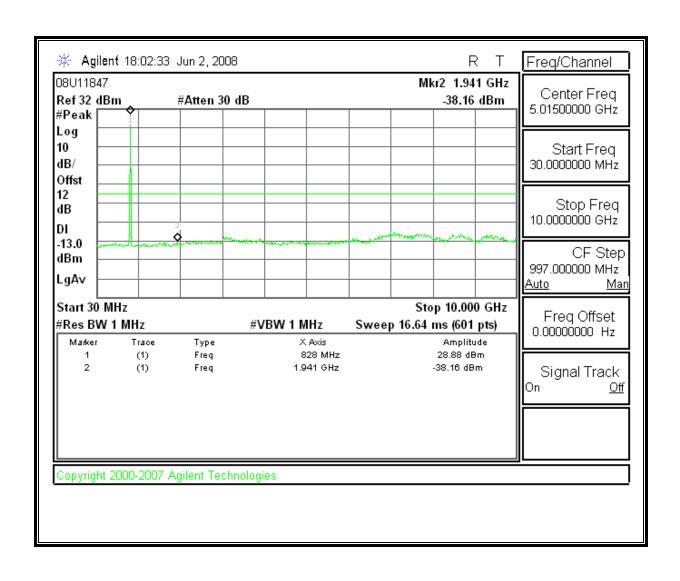
RESULTS

No non-compliance noted.

RF CONDUCTED PORT:

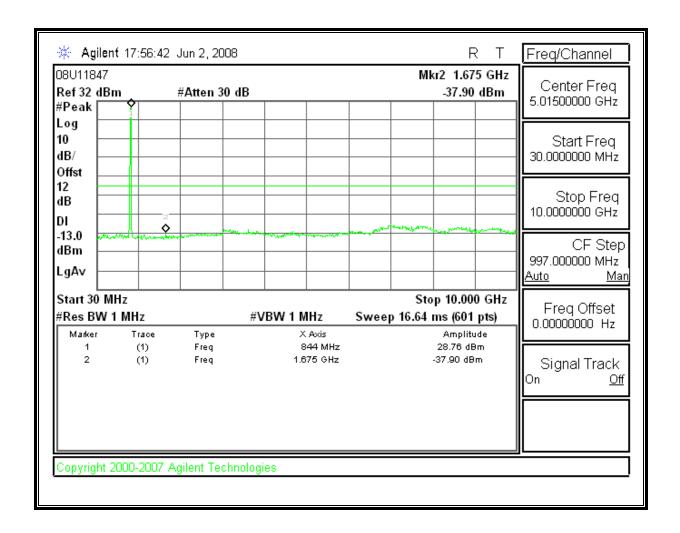
CELL, CDMA MODULATION:

Low Channel, Out-Of-Band Emissions

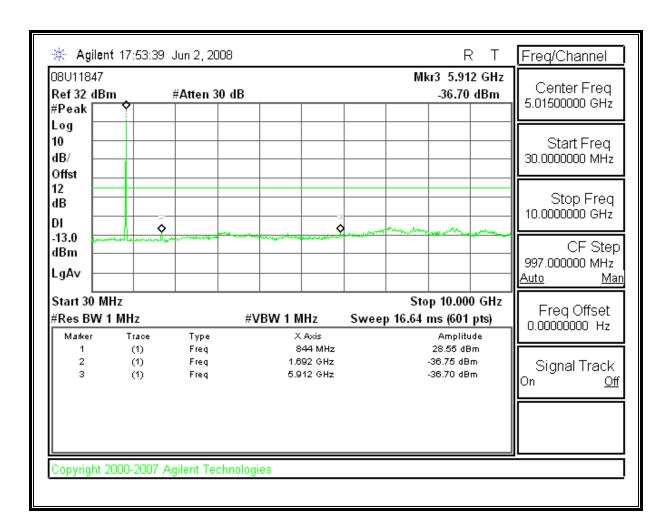


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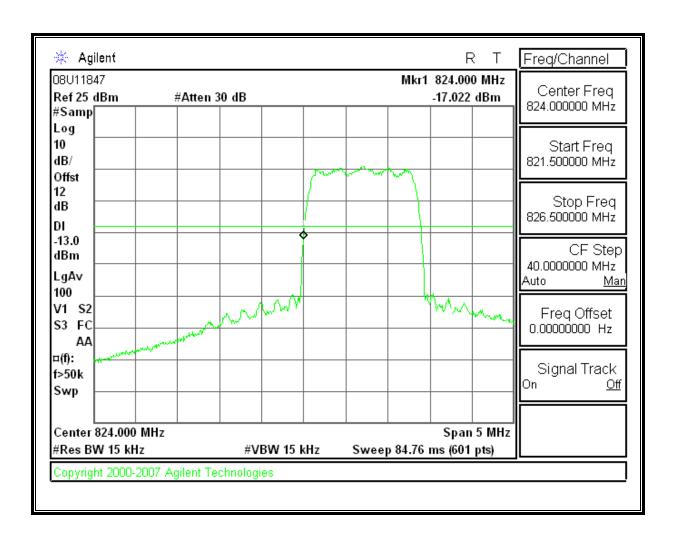
Mid Channel, Out-Of-Band Emissions



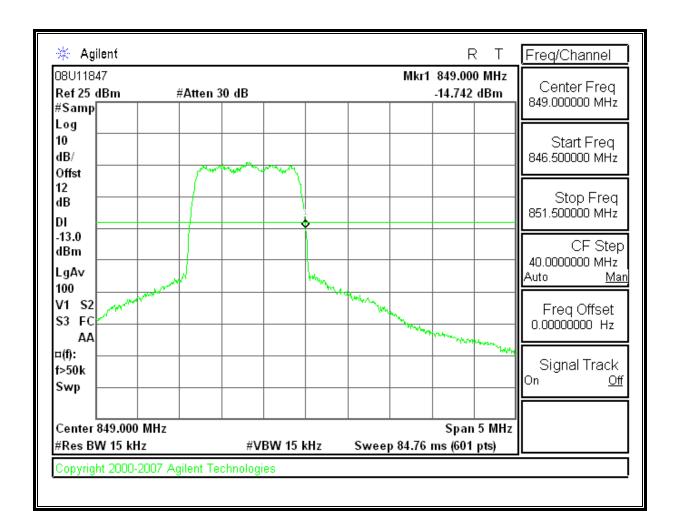
High Channel, Out-Of-Band Emissions



Low Channel Band Edge

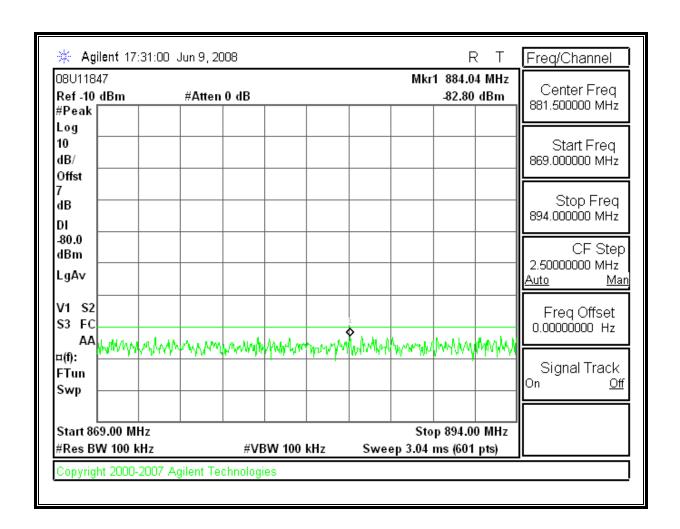


High Channel Band Edge



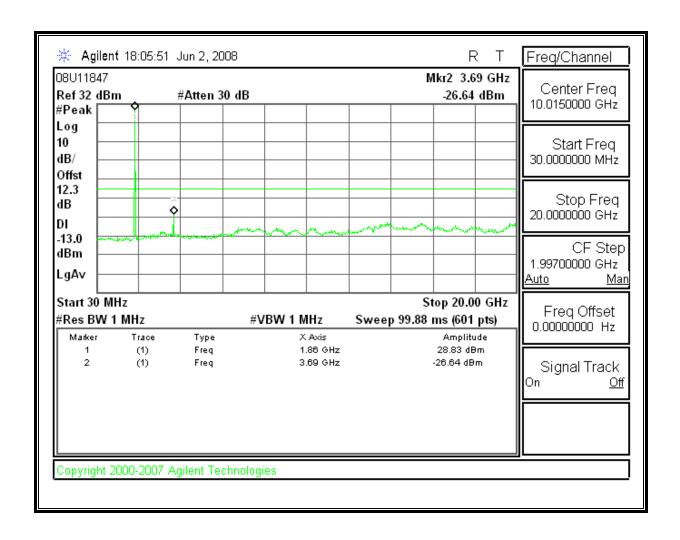
ATE: JULY 22, 2008

Mobile Emissions in Base Frequency Range

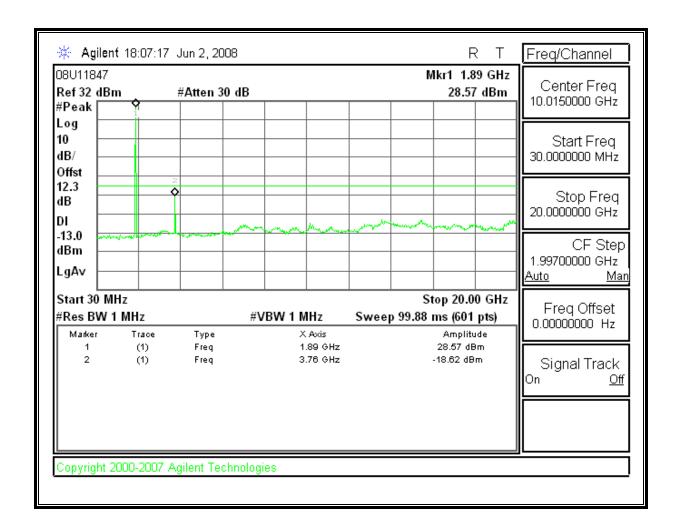


PCS, CDMA MODULATION::

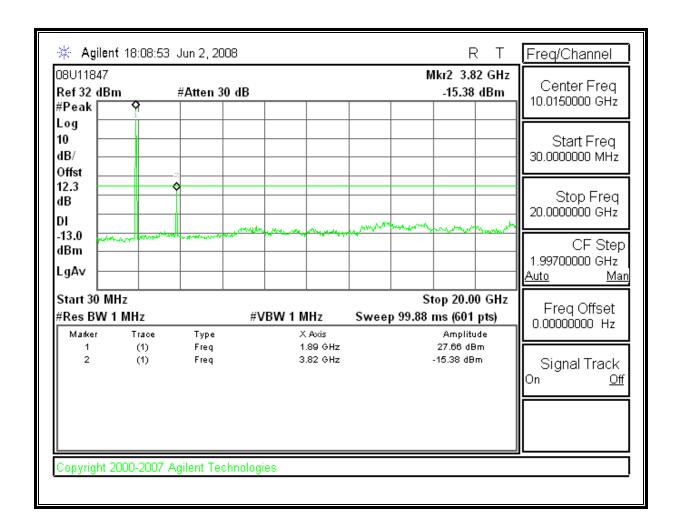
Low Channel, Out-Of-Band Emissions



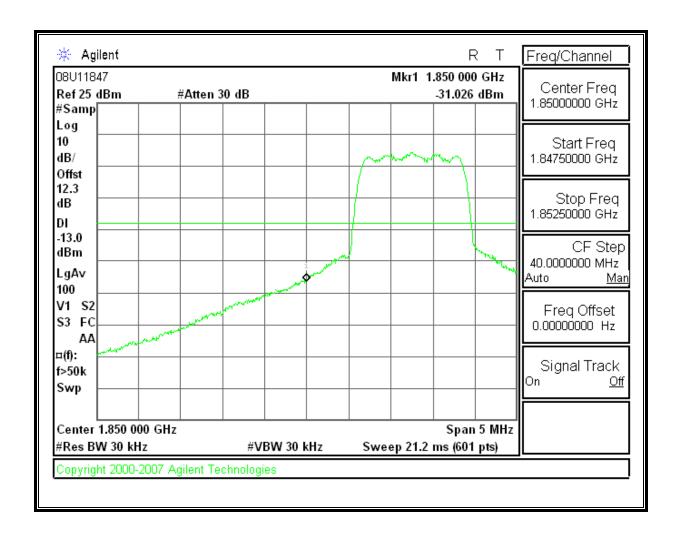
Mid Channel, Out-Of-Band Emissions



High Channel, Out-Of-Band Emissions

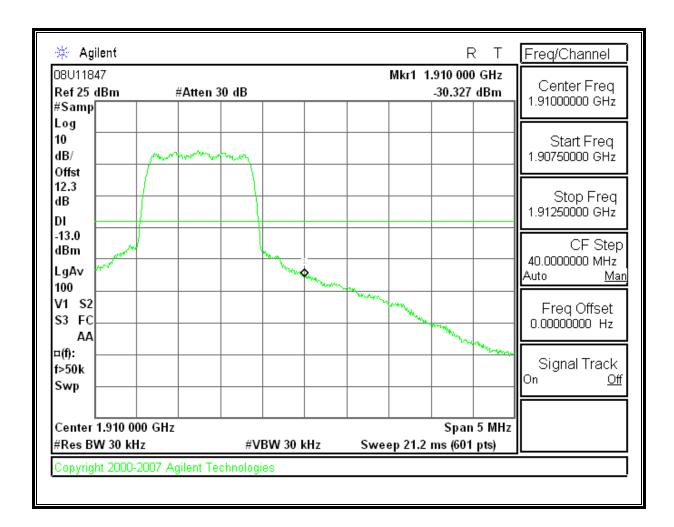


Low Channel Band Edge



ATE: JULY 22, 2008

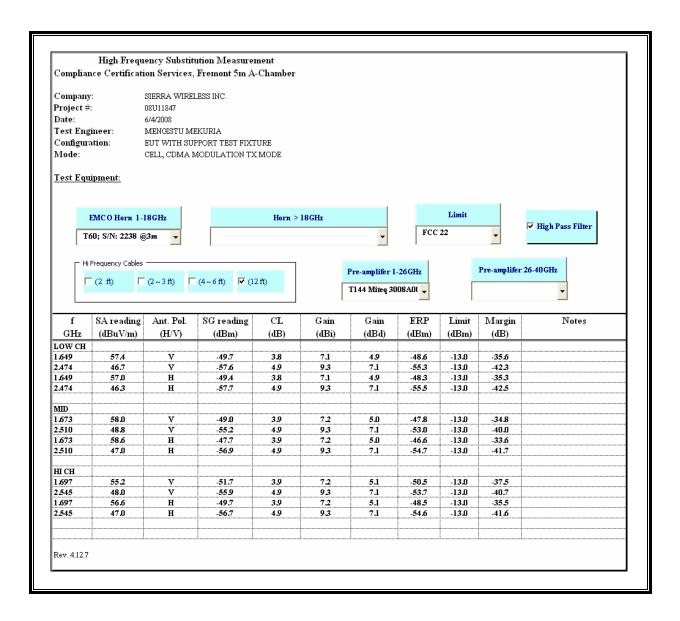
High Channel Band Edge



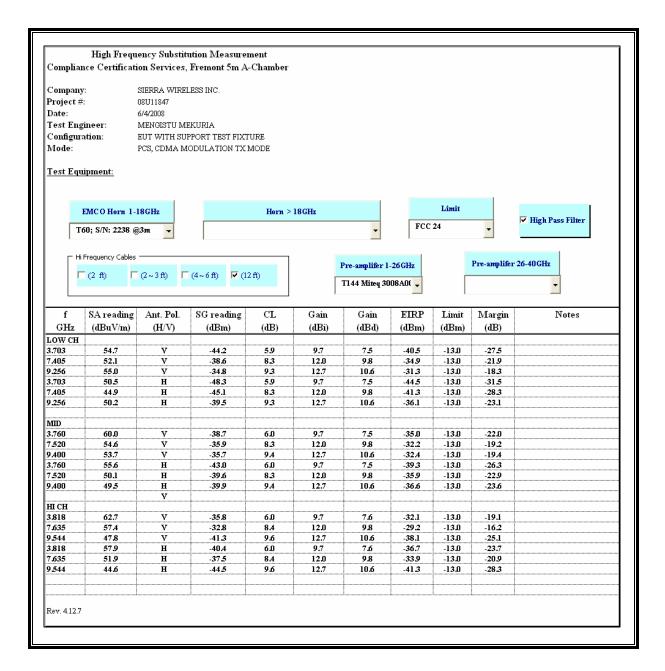
ATE: JULY 22, 2008

FIELD STRENGTH OF SPURIOUS RADIATION:

CELL, CDMA MODULATION SPURIOUS & HARMONIC (ERP)



PCS CDMA MODULATION SPURIOUS & HARMONIC (EIRP)



7.4. FREQUENCY STABILITIES

LIMIT

The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

RSS-132, RSS-133, & ANSI / TIA / EIA 603C Clause 2.3.1 and 2.3.2

RESULTS

No non-compliance noted.

CELL, CDMA MODULATION – MID CHANNEL

Reference Frequency: Cellular Mid Channel 835.837000MHz @ 20*C							
Limit: to stay +- 2.5 ppm = 2089.593 Hz							
DC Power Supply	Environment Frequency Deviation Measureed with Time Elapse						
(Vdc)	Temperature (*C)	(MHz) Delta (ppm) Limit (
3.60	50	835.837015	-0.018	2.5			
3.60	40	835.837011	-0.013	2.5			
3.60	30	835.837010	-0.012	2.5			
3.60	20	835.837000	0	2.5			
3.60	10	835.837013	-0.016	2.5			
3.60	0	835.837011	-0.013	2.5			
3.60	-10	835.837014	-0.017	2.5			
3.60	-20	835.837014	-0.017	2.5			
3.60	-30	835.837017	-0.020	2.5			

Reference Frequency: Cellular Mid Channel 835.837000MHz @ 20*C						
Limit: to stay +- 2.5 ppm = 2089.593 Hz						
DC Power Supply	wer Supply Environment Frequency Deviation Measureed with Time Elapse					
(Vdc)	Temperature (*C)	(MHz)	Delta (ppm)	Limit (ppm)		
100%	20	835.837000	0	2.5		
85%	20	835.837000	0.000	2.5		
115%	20	835.837006	-0.007	2.5		

PCS, CDMA MODULATION - MID CHANNEL

Reference Frequency: PCS Mid Channel 1879.3140000MHz @ 20*C						
Limit: within the authorized block or +- 2.5 ppm = 4698.285 Hz						
Power Supply	Environment Frequency Deviation Measureed with Time Elapse					
(Vdc)	Temperature (*C)	(MHz)	Delta (ppm)	Limit (ppm)		
3.60	50	1879.314034	-0.018	2.5		
3.60	40	1879.314031	-0.016	2.5		
3.60	30	1879.314041	-0.022	2.5		
3.60	20	1879.31400	0	2.5		
3.60	10	1879.314024	-0.013	2.5		
3.60	0	1879.314025	-0.013	2.5		
3.60	-10	1879.314037	-0.020	2.5		
3.60	-20	1879.314039	-0.021	2.5		
3.60	-30	1879.314034	-0.018	2.5		

Reference Frequency: PCS Mid Channel 1879.3140000MHz @ 20 C							
Limit: within the authorized block or +- 2.5 ppm = 4698.285 Hz							
Power Supply	Environment	Environment Frequency Deviation Measureed with Time Elapse					
(Vdc)	Temperature (*C)	(MHz)	Delta (ppm)	Limit (ppm)			
100%	20	1879.314000	0	2.5			
85%	20	1879.313902	0.052	2.5			
115%	20	1879.314000	0.000	2.5			

7.5. RECEIVER SPURIOUS EMISSIONS

LIMIT

Spurious Emission Limits for Receivers:

Spurious Frequency (MHz)	Field Strength (microvolts/m at 3 metres)
30-88	100
88-216	150
216-960	200
Above 960	500

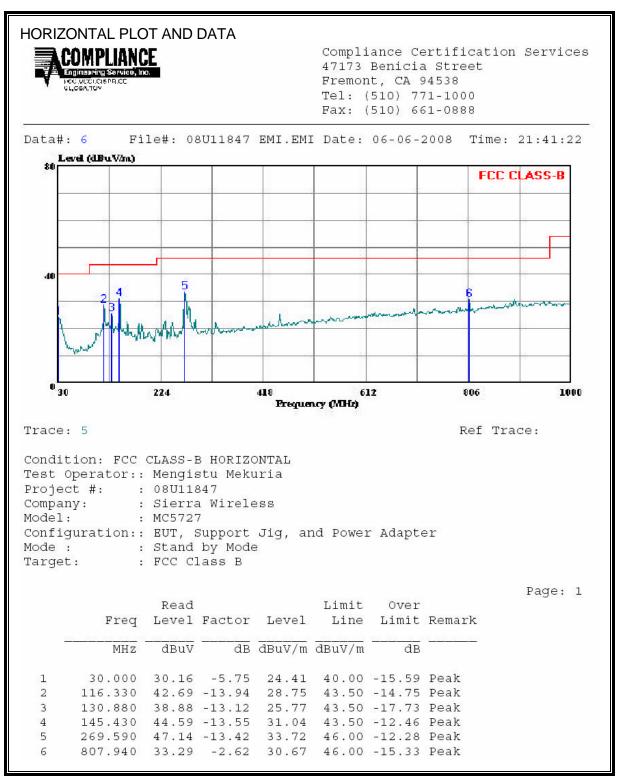
TEST PROCEDURE

The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (local oscillator frequency, intermediate frequency or carrier frequency), or 30 MHz, whichever is the higher, to at least 3 times the highest tunable and local oscillator frequencies.

RESULTS

No non-compliance noted:

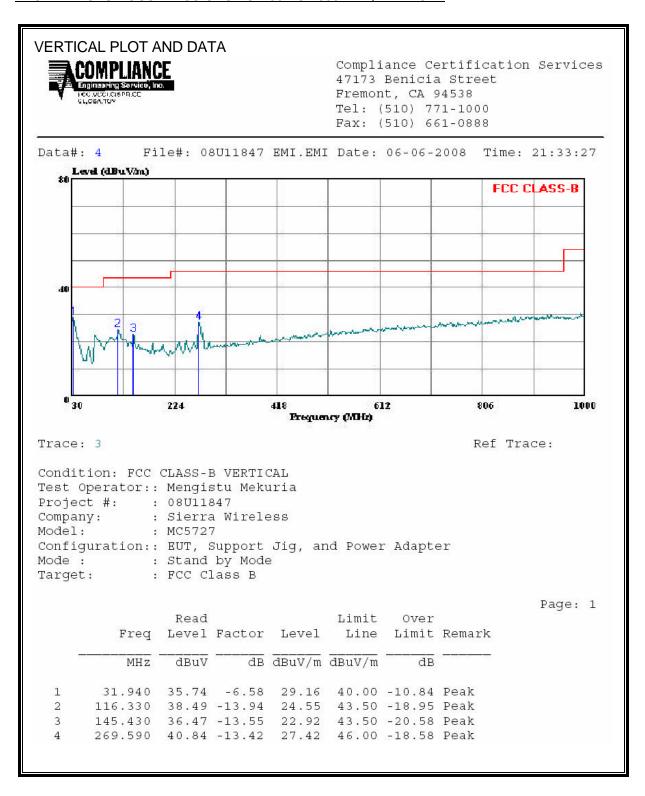
RECEIVER SPURIOUS EMISSIONS FOR 30 TO 1000 MHz, HORIZONTAL



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RECEIVER SPURIOUS EMISSIONS FOR 30 TO 1000 MHz, VERTICAL



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RECEIVER SPURIOUS EMISSIONS FOR ABOVE 1GHz

Note: No emissions were found within above 1GHz of 20dB below the system noise floor.

7.6. POWER LINE CONDUCTED EMISSION

LIMIT

RSS-Gen 7.2.2

Except when the requirements applicable to a given device state otherwise, for any licence-exempt radio communication device equipped to operate from the public utility AC power supply, either directly or indirectly, the radio frequency voltage that is conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in Table 2. The tighter limit applies at the frequency range boundaries.

Table 2 – AC Power Lines Conducted Emission Limits

Frequency of Emission (MHz)	Conducted Limit (dBuV)			
	Quasi-peak	Average		
0.15-0.5	66 to 56 *	56 to 46 *		
0.5-5	56	46		
5-30	60	50		

Decreases with the logarithm of the frequency.

RESULTS

No non-compliance noted:

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading		Closs	Limit	EN_B	Margin		Remark	
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1/L2
0.19	53.02		37.72	0.00	64.26	54.26	-11.24	-16.54	L1
0.23	47.84		33.49	0.00	62.31	52.31	-14.47	-18.82	L1
0.28	43.02		30.10	0.00	60.76	50.76	-17.74	-20.66	L1
0.19	52.50		36.35	0.00	64.26	54.26	-11.76	-17.91	L2
0.23	47.38		31.07	0.00	62.31	52.31	-14.93	-21.24	L2
0.28	42.35		27.60	0.00	60.76	50.76	-18.41	-23.16	L2
6 Worst Data									

LINE 1 RESULTS

Compliance Certification Services 47173 Benicia Street Fremont, CA 94538 Tel: (510) 771-1000 Fax: (510) 661-0888 Data#: 14 File#: 08U11847 LC.EMI Date: 06-06-2008 Time: 23:06:30 Level (dBuV) CISPR CLASS-B AVERAGE 0.150.2 0.5 Prequency (MHz) (Line Conduction) Trace: 12 Ref Trace: Condition: CISPR CLASS-B Test Operator:: Mengsitu Mekuria Project #: : 08U11847 Company: : Sierra Wireless Configuration:: EUT, Support Jig, and AC Adapter : Stand By Mode Mode: Target: : FCC Class B Voltage: : 115VAC / 60Hz : L1: Peak (Blue); Avg (Green)

ATE: JULY 22, 2008

LINE 2 RESULTS

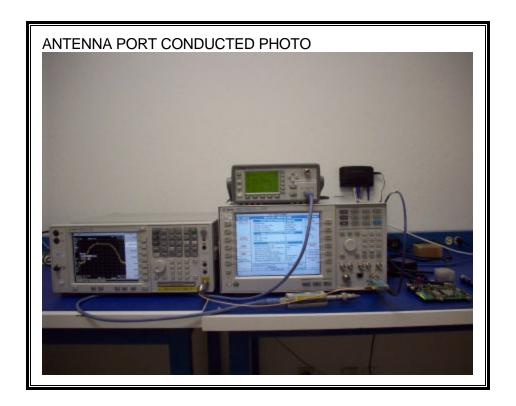
Compliance Certification Services 47173 Benicia Street Fremont, CA 94538 Tel: (510) 771-1000 Fax: (510) 661-0888 Data#: 28 File#: 08U11847 LC.EMI Date: 06-06-2008 Time: 23:24:48 Level (dBuV) CISPR CLASS-B AVERAGE 0.150.2 0.5 30 Prequency (MHz) (Line Conduction) Trace: 26 Ref Trace: Condition: CISPR CLASS-B Test Operator:: Mengsitu Mekuria Project #: : 08U11847 Company: : Sierra Wireless Configuration:: EUT, Support Jig, and AC Adapter Mode: : Stand By Mode Target: : FCC Class B Voltage: : 115VAC / 60Hz : L2: Peak (Blue); Avg (Green)

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ATE: JULY 22, 2008 IC: 2417C-MC5725

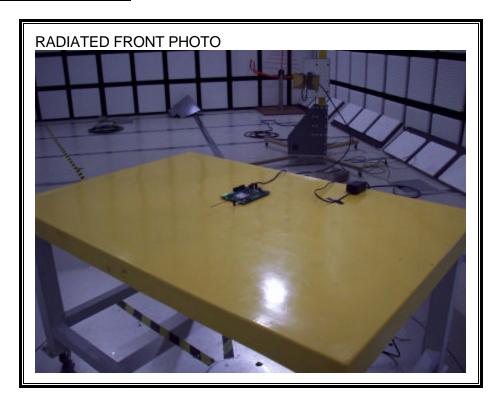
8. SETUP PHOTOS

ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP

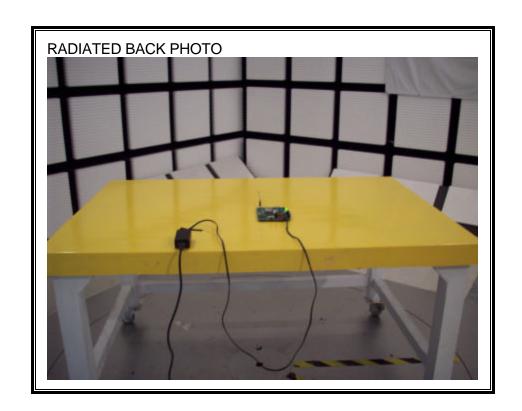


RADIATED RF MEASUREMENT SETUP

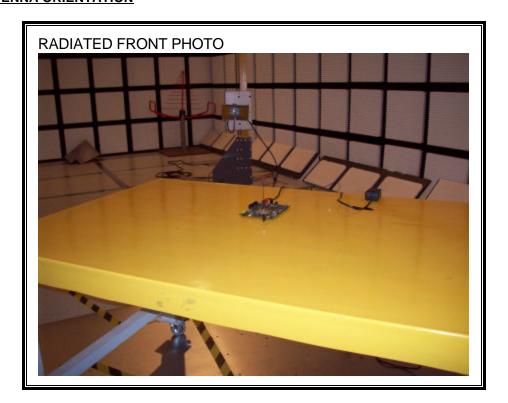
X-ANTENNA ORIENTATION



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Y-ANTENNA ORIENTATION



ATE: JULY 22, 2008





ATE: JULY 22, 2008

IC: 2417C-MC5725

END OF REPORT