



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

**CERTIFICATION
TEST REPORT**

FOR

850/900/1800/1900 MHz QUADBAND MODULE

MODEL NUMBER: MC8765

FCC ID: N7NMC8765

REPORT NUMBER: 05U3778-1

ISSUE DATE: NOVEMBER 23, 2005

Prepared for
**SIERRA WIRELESS INC.
13811 WIRELESS WAY
RICHMOND, BC V6V 3A4, CANADA**

Prepared by
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NVLAP[®]
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Revision History

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SIERRA WIRELESS INC.
13811 WIRELESS WAY
RICHMOND, BC V6V 3A4, CANADA

EUT DESCRIPTION: 850/900/1800/1900 MHZ QUADBAND MODULE

MODEL: MC8765

SERIAL NUMBER: S2128751117E2

DATE TESTED: NOVEMBER 09, 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

WILLIAM ZHUANG
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA/EIA 603B (2002), 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%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an 850/900/1800/1900 Quad-Band Module and manufactured by Sierra Wireless, Inc.

5.2. MAXIMUM OUTPUT POWER

Please refer to the RF conducted report.

5.3. SOFTWARE AND FIRMWARE

The test utility software used during testing was Hyperterminal / ProcommPlus for GSM and EDGE modulations, and the link test with communication tester for WCDMA modulation.

5.4. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power. Please refer to the RF conducted report.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adpter	IBM	PA-1900-171	530002520D	DoC
Laptop	IBM	Thinkpad	S1VBW1B400000074	DoC

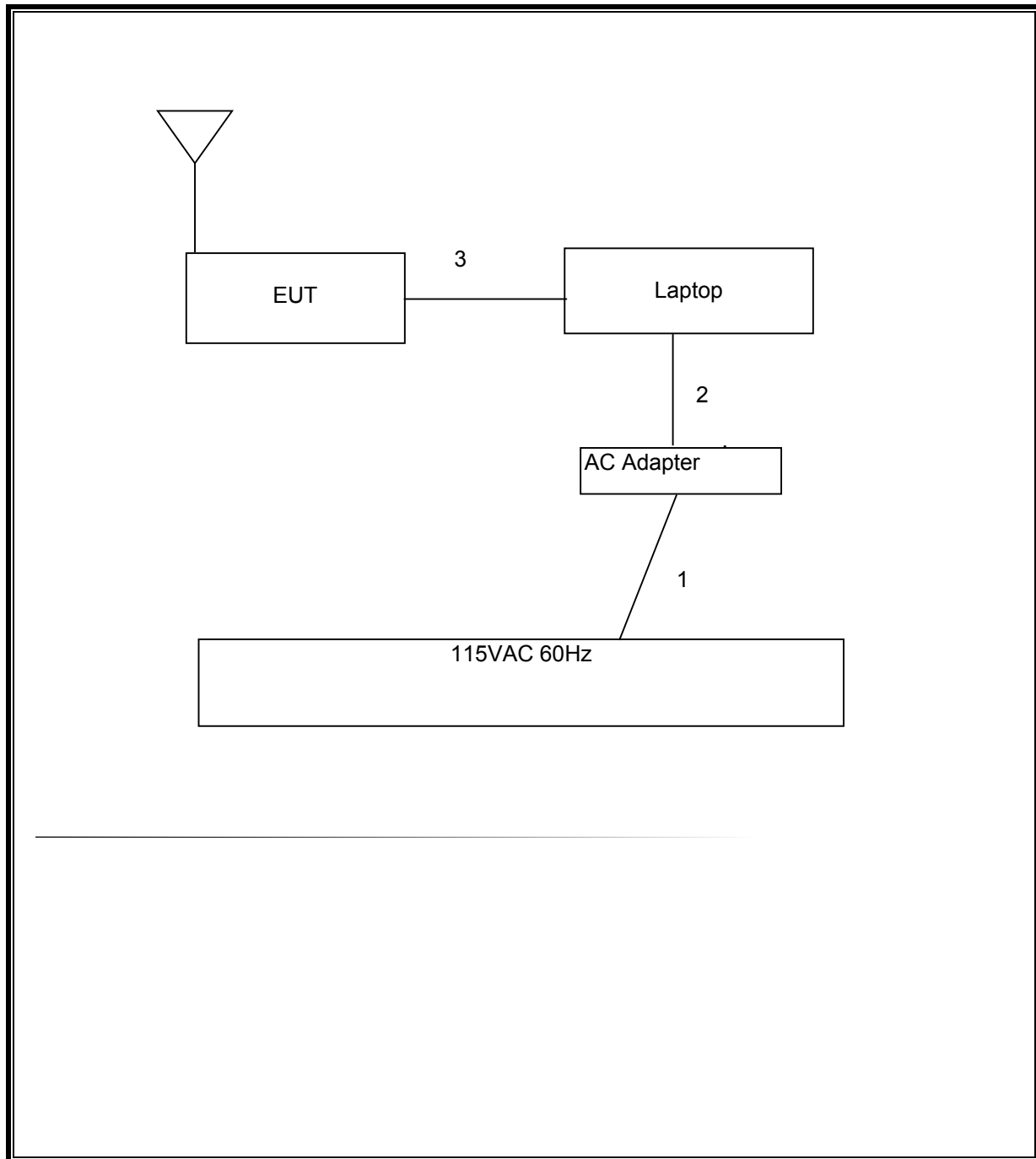
I/O CABLES FOR WCDMA TEST MODE

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	1m	NA
3	USB	1	USB	Un-shielded	1m	Connected to EUT from Laptop

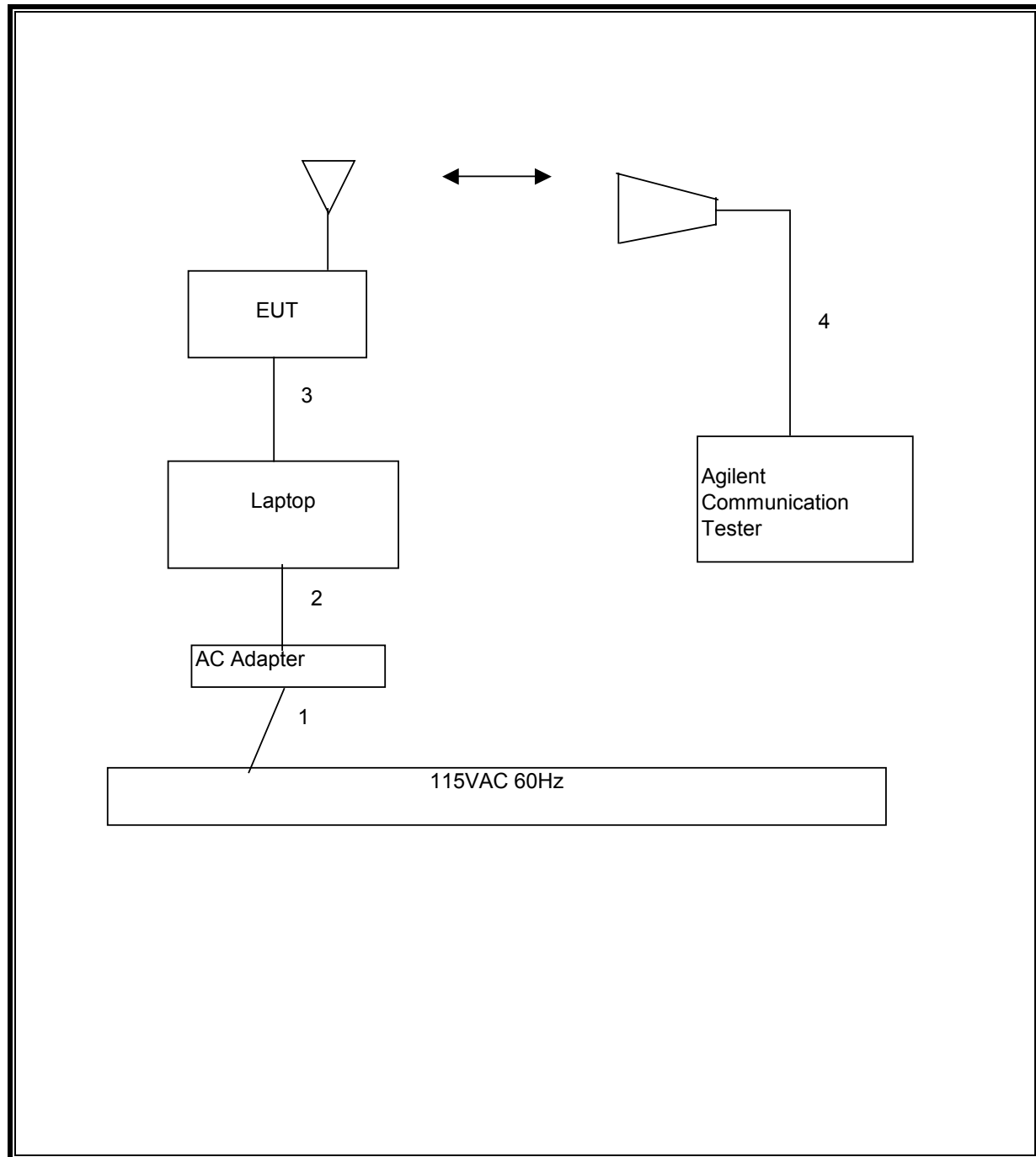
TEST SETUP

The EUT is connected to Laptop via a USB cable during the tests. Test software exercised the radio card. For WCDMA test mode, a communication tester was used to link EUT during test.

SETUP DIAGRAM FOR GSM AND EDGE TESTS



SETUP DIAGRAM FOR WCDMA TEST



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
30MHz-2GHz	Sunol Sciences	JB1 Antenna	A121003	12/22/05
Antenna, Horn 1 ~ 18 GHz	EMCO	3117	29301	9/12/06
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6717	9/12/06
Amplifier 1-26GHz	MITEQ	NSP2600-SP	924341	8/17/06
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	5/2/06
Peak Power Meter	Agilent	E4416A	GB41291160	2/9/06
Peak / Average Power Sensor	Agilent	E9327A	US40440755	2/10/06
Communication Tester	Agilent	8960	GB43344837	9/3/06

7. LIMITS AND RESULTS

7.1. FIELD STRENGTH OF SPURIOUS RADIATION

LIMIT

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

§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 (b)

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

RESULTS

No non-compliance noted.

GSM850 Spurious & Harmonic (ERP)

11/08/05 High Frequency Substitution Measurement Compliance Certification Services, Morgan Hill 5m Chamber Site Test Engr: William Zhuang Project #: 05U3778 Company: Sierra Wireless EUT Descrip.: UMTS Module EUT M/N: MC8765 (Modular Approval) Test Target: FCC22 Mode Oper: Transmit, GSM850 Mode										
Test Equipment:										
EMCO Horn 1-18GHz T73; S/N: 6717 @3m		Horn > 18GHz		Limit FCC 22		☒ High Pass Filter				
Hi Frequency Cables ☒ (2 ft) ☐ (2 ~ 3 ft) ☐ (4 ~ 6 ft) ☒ (12 ft)				Pre-amplifier 1-26GHz T87 Miteq 924342		Pre-amplifier 26-40GHz				
f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
GSM850 Low Ch										
1.648	76.6	V	-34.8	1.6	7.5	5.4	-31.0	-13.0	-18.0	
2.473	68.8	V	-39.3	1.9	8.6	6.4	-34.8	-13.0	-21.8	
3.297	52.1	V	-53.9	2.3	9.3	7.2	-49.1	-13.0	-36.1	
1.648	71.9	H	-38.8	1.6	7.5	5.4	-35.0	-13.0	-22.0	
2.473	69.9	H	-37.9	1.9	8.6	6.4	-33.5	-13.0	-20.5	
3.297	49.6	H	-56.3	2.3	9.3	7.2	-51.5	-13.0	-38.5	
GSM850 Mid Ch										
1.674	67.8	V	-43.5	1.6	7.6	5.4	-39.6	-13.0	-26.6	
2.511	61.9	V	-46.1	1.9	8.6	6.4	-41.6	-13.0	-28.6	
3.348	53.2	V	-52.8	2.3	9.3	7.2	-47.9	-13.0	-34.9	
1.674	71.2	H	-39.4	1.6	7.6	5.4	-35.6	-13.0	-22.6	
2.511	67.1	H	-40.6	1.9	8.6	6.4	-36.1	-13.0	-23.1	
3.348	51.7	H	-54.2	2.3	9.3	7.2	-49.4	-13.0	-36.4	
GSM850 High Ch										
1.698	70.5	V	-40.6	1.6	7.6	5.5	-36.7	-13.0	-23.7	
2.546	65.4	V	-42.5	2.0	8.6	6.5	-38.0	-13.0	-25.0	
3.395	50.6	V	-55.3	2.3	9.4	7.2	-50.4	-13.0	-37.4	
1.698	74.7	H	-35.7	1.6	7.6	5.5	-31.9	-13.0	-18.9	
2.546	71.4	H	-36.2	2.0	8.6	6.5	-31.7	-13.0	-18.7	
3.395	50.2	H	-55.6	2.3	9.4	7.2	-50.7	-13.0	-37.7	
Note: No other emissions were detected above the system noise floor.										

EDGE850 Spurious & Harmonic (ERP)

11/08/05 High Frequency Substitution Measurement Compliance Certification Services, Morgan Hill 5m Chamber Site											
Test Engr: William Zhuang Project #: 05U3778 Company: Sierra Wireless EUT Descrip.: UMTS Module EUT M/N: MC8765 (Modular Approval) Test Target: FCC22 Mode Oper: Transmit, EDGE850 Mode											
Test Equipment:											
EMCO Horn 1-18GHz T73; S/N: 6717 @3m			Horn > 18GHz			Limit FCC 22		☒ High Pass Filter			
Hi Frequency Cables ☒ (2 ft) ☐ (2 ~ 3 ft) ☐ (4 ~ 6 ft) ☒ (12 ft)						Pre-amplifier 1-26GHz T87 Miteq 924342		Pre-amplifier 26-40GHz			
f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	
EDGE850, Low Ch											
1.648	67.8	V	-43.6	1.6	7.5	5.4	-39.8	-13.0	-26.8		
2.473	63.1	V	-44.9	1.9	8.6	6.4	-40.5	-13.0	-27.5		
3.297	50.5	V	-55.5	2.3	9.3	7.2	-50.7	-13.0	-37.7		
1.648	68.5	H	-42.2	1.6	7.5	5.4	-38.4	-13.0	-25.4		
2.473	63.8	H	-44.0	1.9	8.6	6.4	-39.5	-13.0	-26.5		
3.297	50.8	H	-55.2	2.3	9.3	7.2	-50.3	-13.0	-37.3		
EDGE850, Mid Ch.											
1.674	61.8	V	-49.4	1.6	7.6	5.4	-45.6	-13.0	-32.6		
2.511	56.4	V	-51.5	1.9	8.6	6.4	-47.0	-13.0	-34.0		
3.348	49.7	V	-56.3	2.3	9.3	7.2	-51.4	-13.0	-38.4		
1.674	66.7	H	-43.8	1.6	7.6	5.4	-40.0	-13.0	-27.0		
2.511	61.5	H	-46.3	1.9	8.6	6.4	-41.7	-13.0	-28.7		
3.348	49.1	H	-56.8	2.3	9.3	7.2	-52.0	-13.0	-39.0		
EDGE850 High Ch											
1.698	66.4	V	-44.8	1.6	7.6	5.5	-40.9	-13.0	-27.9		
2.546	59.9	V	-47.9	2.0	8.6	6.5	-43.4	-13.0	-30.4		
3.395	49.0	V	-56.9	2.3	9.4	7.2	-52.0	-13.0	-39.0		
1.698	70.2	H	-40.2	1.6	7.6	5.5	-36.3	-13.0	-23.3		
2.546	63.9	H	-43.7	2.0	8.6	6.5	-39.2	-13.0	-26.2		
3.395	49.7	H	-56.1	2.3	9.4	7.2	-51.3	-13.0	-38.3		
Note: No other emissions were detected above the system noise floor.											

WCDMA850 Spurious & Harmonic (ERP)

11/09/05 High Frequency Substitution Measurement Compliance Certification Services, Morgan Hill 5m Chamber Site											
Test Engr: William Zhuang Project #: 05U3778 Company: Sierra Wireless EUT Descrip.: UMTS Module EUT M/N: MC8765 (Modular Approval) Test Target: FCC22 Mode Oper: Transmit, WCDMA850 Mode											
Test Equipment:											
EMCO Horn 1-18GHz T73; S/N: 6717 @3m			Horn > 18GHz			Limit FCC 22		☒ High Pass Filter			
Hi Frequency Cables ☒ (2 ft) ☐ (2 ~ 3 ft) ☐ (4 ~ 6 ft) ☒ (12 ft)						Pre-amplifier 1-26GHz T87 Miteq 924342		Pre-amplifier 26-40GHz			
f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	
WCDMA850 Low Ch											
1.652	60.7	V	-50.7	1.6	7.5	5.4	-46.9	-13.0	-33.9		
2.479	52.2	V	-55.9	1.9	8.6	6.4	-51.4	-13.0	-38.4		
1.652	52.5	H	-58.2	1.6	7.5	5.4	-54.4	-13.0	-41.4		
2.479	52.8	H	-55.1	1.9	8.6	6.4	-50.6	-13.0	-37.6		
WCDMA850 Mid Ch											
1.673	60.2	V	-51.1	1.6	7.6	5.4	-47.3	-13.0	-34.3		
2.509	57.9	V	-50.0	1.9	8.6	6.4	-45.5	-13.0	-32.5		
1.673	67.0	H	-43.6	1.6	7.6	5.4	-39.7	-13.0	-26.7		
2.509	62.2	H	-45.6	1.9	8.6	6.4	-41.1	-13.0	-28.1		
WCDMA850 High Ch											
1.693	61.1	V	-50.1	1.6	7.6	5.5	-46.2	-13.0	-33.2		
2.540	54.7	V	-53.2	2.0	8.6	6.5	-48.7	-13.0	-35.7		
1.693	52.9	H	-57.6	1.6	7.6	5.5	-53.7	-13.0	-40.7		
2.540	52.8	H	-54.8	2.0	8.6	6.5	-50.3	-13.0	-37.3		
Note: No other emissions were detected above the system noise floor.											

GSM1900 Spurious & Harmonic (EIRP):

11/08/05
High Frequency Substitution Measurement
Compliance Certification Services, Morgan Hill 5m Chamber Site
Test Engr: William Zhuang
Project #: 05U3778
Company: Sierra Wireless
EUT Descrip.: UMTS Module
EUT M/N: MC8765 (Modular Approval)
Test Target: FCC24
Mode Oper: Transmit, GSM1900 Mode
Test Equipment:

EMCO Horn 1-18GHz

Horn > 18GHz

Limit

☒ High Pass Filter

T73; S/N: 6717 @3m

FCC 24

Hi Frequency Cables

Pre-amplifier 1-26GHz

Pre-amplifier 26-40GHz

☒ (2 ft) ☐ (2 ~ 3 ft) ☐ (4 ~ 6 ft) ☒ (12 ft)

T87 Miteq 924342

f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
GSM1900 Low Ch										
3.700	53.6	V	-46.9	2.5	10.1	8.0	-41.4	-13.0	-28.4	
5.550	57.9	V	-39.6	3.3	10.9	8.8	-34.1	-13.0	-21.1	
3.700	54.7	H	-45.7	2.5	10.1	8.0	-40.2	-13.0	-27.2	
5.550	56.8	H	-39.7	3.3	10.9	8.8	-34.2	-13.0	-21.2	
GSM1900 Mid Ch										
3.760	52.4	V	-47.9	2.5	10.2	8.0	-42.4	-13.0	-29.4	
5.640	57.0	V	-40.5	3.3	11.1	8.9	-34.9	-13.0	-21.9	
3.760	54.6	H	-45.5	2.5	10.2	8.0	-40.0	-13.0	-27.0	
5.640	54.6	H	-42.0	3.3	11.1	8.9	-36.4	-13.0	-23.4	
GSM1900 High Ch										
3.820	54.9	V	-45.3	2.5	10.2	8.0	-39.8	-13.0	-26.8	
5.730	52.9	V	-44.6	3.4	11.2	9.0	-39.0	-13.0	-26.0	
7.645	54.3	V	-40.4	3.7	11.5	9.4	-34.7	-13.0	-21.7	
3.820	56.3	H	-43.7	2.5	10.2	8.0	-38.2	-13.0	-25.2	
5.730	53.5	H	-43.1	3.4	11.2	9.0	-37.4	-13.0	-24.4	
7.645	52.5	H	-41.4	3.7	11.5	9.4	-35.7	-13.0	-22.7	
Note: No other emissions were detected above the system noise floor.										

EDGE1900 Spurious & Harmonic (EIRP):

11/08/05

High Frequency Substitution Measurement

Compliance Certification Services, Morgan Hill 5m Chamber Site

Test Engr: William Zhuang

Project #: 05U3778

Company: Sierra Wireless

EUT Descrip.: UMTS Module

EUT M/N: MC8765 (Modular Approval)

Test Target: FCC24

Mode Oper: Transmit, EDGE1900 Mode

Test Equipment:

EMCO Horn 1-18GHz

T73; S/N: 6717 @3m

Horn > 18GHz

Limit

FCC 24

☒ High Pass Filter

Hi Frequency Cables

☒ (2 ft)

☐ (2 ~ 3 ft)

☐ (4 ~ 6 ft)

☒ (12 ft)

Pre-amplifier 1-26GHz

T87 Miteq 924342

Pre-amplifier 26-40GHz

f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
EDGE1900 Low Ch										
3.700	53.3	V	-47.2	2.5	10.1	8.0	-41.7	-13.0	-28.7	
5.550	57.7	V	-39.9	3.3	10.9	8.8	-34.4	-13.0	-21.4	
3.700	54.7	H	-45.7	2.5	10.1	8.0	-40.2	-13.0	-27.2	
5.550	57.3	H	-39.3	3.3	10.9	8.8	-33.8	-13.0	-20.8	
EDGE1900 Mid Ch										
3.760	51.8	V	-48.4	2.5	10.2	8.0	-42.9	-13.0	-29.9	
5.640	55.9	V	-41.7	3.3	11.1	8.9	-36.1	-13.0	-23.1	
3.760	54.1	H	-46.0	2.5	10.2	8.0	-40.5	-13.0	-27.5	
5.640	54.1	H	-42.5	3.3	11.1	8.9	-36.9	-13.0	-23.9	
EDGE1900 High Ch										
3.820	53.3	V	-46.8	2.5	10.2	8.0	-41.3	-13.0	-28.3	
5.730	54.6	V	-42.9	3.4	11.2	9.0	-37.3	-13.0	-24.3	
7.645	55.9	V	-38.8	3.7	11.5	9.4	-33.1	-13.0	-20.1	
3.820	55.0	H	-45.0	2.5	10.2	8.0	-39.5	-13.0	-26.5	
5.730	52.2	H	-44.3	3.4	11.2	9.0	-38.7	-13.0	-25.7	
7.645	56.8	H	-37.1	3.7	11.5	9.4	-31.4	-13.0	-18.4	
Note: No other emissions were detected above the system noise floor.										

WCDMA1900 Spurious & Harmonic (EIRP):

11/09/05
High Frequency Substitution Measurement
Compliance Certification Services, Morgan Hill 5m Chamber Site

Test Engr: William Zhuang
Project #: 05U3778
Company: Sierra Wireless
EUT Descrip.: UMTS Module
EUT M/N: MC8765 (Modular Approval)
Test Target: FCC24
Mode Oper: Transmit, WCDMA1900 Mode

EMCO Horn 1-18GHz
T73; S/N: 6717 @3m

Horn > 18GHz

Limit
FCC 24

☒ High Pass Filter

Hi Frequency Cables
☒ (2 ft)
☐ (2 ~ 3 ft)
☐ (4 ~ 6 ft)
☒ (12 ft)

Pre-amplifier 1-26GHz
T87 Miteq 924342

Pre-amplifier 26-40GHz

f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
WCDMA1900 Low Ch										
3.704	52.7	V	-47.8	2.5	10.1	8.0	-42.3	-13.0	-29.3	
5.557	59.3	V	-38.2	3.3	11.0	8.8	-32.7	-13.0	-19.7	
3.704	52.8	H	-47.6	2.5	10.1	8.0	-42.1	-13.0	-29.1	
5.557	58.5	H	-38.1	3.3	11.0	8.8	-32.6	-13.0	-19.6	
WCDMA1900 Mid Ch										
3.760	53.8	V	-46.5	2.5	10.2	8.0	-41.0	-13.0	-28.0	
5.640	56.5	V	-41.1	3.3	11.1	8.9	-35.5	-13.0	-22.5	
3.760	52.8	H	-47.3	2.5	10.2	8.0	-41.8	-13.0	-28.8	
5.640	56.0	H	-40.5	3.3	11.1	8.9	-34.9	-13.0	-21.9	
WCDMA1900 High Ch										
3.815	59.7	V	-40.5	2.5	10.2	8.0	-34.9	-13.0	-21.9	
5.723	55.5	V	-42.1	3.4	11.2	9.0	-36.4	-13.0	-23.4	
3.815	56.1	H	-43.9	2.5	10.2	8.0	-38.4	-13.0	-25.4	
5.723	54.0	H	-42.5	3.4	11.2	9.0	-36.9	-13.0	-23.9	
Note: No other emissions were detected above the system noise floor.										

8. SETUP PHOTOS

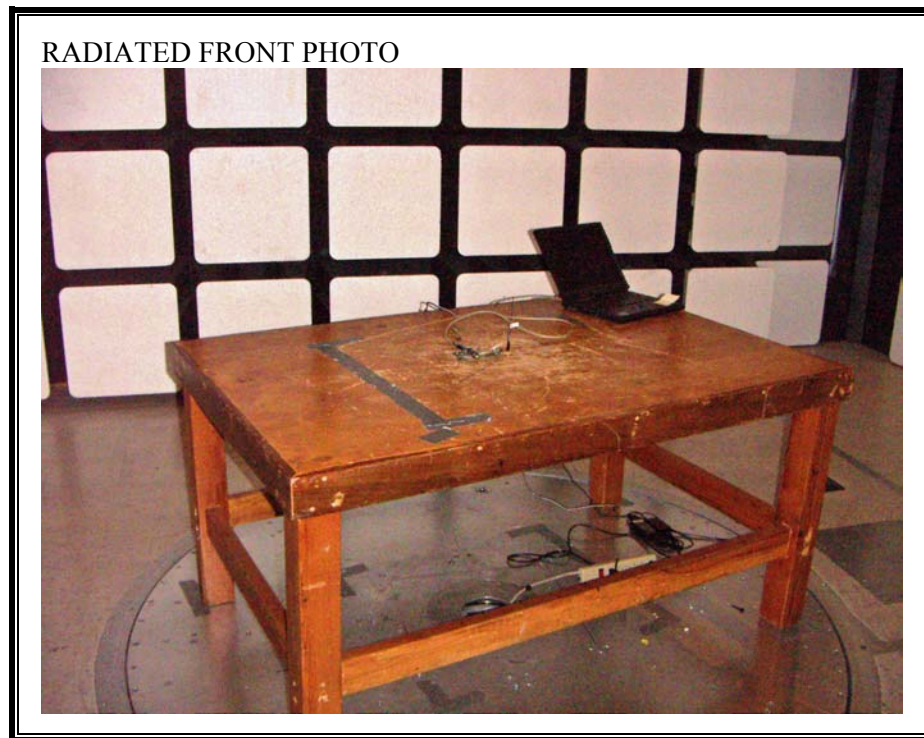
RADIATED RF MEASUREMENT SETUP FOR GSM & EDGE MODULATIONS



RADIATED BACK PHOTO



RADIATED RF MEASUREMENT SETUP FOR WCDMA MODULATION



RADIATED BACK PHOTO



END OF REPORT