

FCC CFR47 PART 15 SUBPART C CERTIFICATION TEST REPORT

FOR

HOME TEST TOOLKIT

MODEL NUMBER: HTT

FCC ID: UEBHTT01

REPORT NUMBER: 06U10398-1B

ISSUE DATE: JULY 20, 2006

Prepared for SUNRISE TELECOM INC. 302 ENZO DRIVE

SAN JOSE, CA 95138, USA

Prepared by

COMPLIANCE CERTIFICATION SERVICES 561F MONTEREY ROAD MORGAN HILL, CA 95037, USA

TEL: (408) 463-0885 FAX: (408) 463-0888



REPORT NO: 06U10398-1B **EUT: HOME TEST TOOLKIT**

Revision History

Rev.	Issue Date	Revisions	Revised By
	7/12/2006	Initial Issue	Thu
В	7/20/2006	Revised Section 5.4, 7.1.2, & 7.1.4, and Removed MPE Section	Thu

DATE: JULY 20, 2006

FCC ID: UEBHTT01

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	5
4.1. MEASURING INSTRUMENT CALIBRATION	5
4.2. MEASUREMENT UNCERTAINTY	5
5. EQUIPMENT UNDER TEST	6
5.1. DESCRIPTION OF EUT	6
5.2. MAXIMUM OUTPUT POWER	6
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	6
5.4. SOFTWARE AND FIRMWARE	6
5.5. WORST-CASE CONFIGURATION AND MODE	7
5.6. DESCRIPTION OF TEST SETUP	8
6. TEST AND MEASUREMENT EQUIPMENT	10
7. LIMITS AND RESULTS	11
7.1. ANTENNA PORT CHANNEL TESTS	11
7.1.1. 20 dB BANDWIDTH	
7.1.2. HOPPING FREQUENCY SEPARATION	
7.1.3. NUMBER OF HOPPING CHANNELS	
7.1.4. AVERAGE TIME OF OCCUPANCY	
7.1.6. AVERAGE POWER	
7.1.7. CONDUCTED SPURIOUS EMISSIONS	
7.2. RADIATED EMISSIONS	
7.2.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS	
7.2.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS	
7.2.3. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz	
7.3. POWERLINE CONDUCTED EMISSIONS	
8. SETUP PHOTOS	58
APPENDIX A – MODIFICATIONS TO EUT FOR DITITAL CLASS A DEVICE.	

REPORT NO: 06U10398-1B EUT: HOME TEST TOOLKIT

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SUNRISE TELECOM INC.

302 ENZO DRIVE

SAN JOSE, CA 95138, USA

EUT DESCRIPTION: HOME TEST TOOLKIT

MODEL: HTT

SERIAL NUMBER: CCS01752

DATE TESTED: JUNE 26 – JULY 11, 2006

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 15 SUBPART C 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**

William Zhuay

COMPLIANCE CERTIFICATION SERVICES

DATE: JULY 20, 2006

FCC ID: UEBHTT01

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2 and FCC CFR 47 Part 15.

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 a Home Test Toolkit which contains a Bluetooth transceiver and a WiFi adapter that only functions as a receiver.

Therefore the data documented in this report only covers the testing result on the Bluetooth portion, and the BT radio module is manufactured by National Semiconductor.

Some modifications were made to the EUT during testing on digital portion Class A device; please refer to the other project 06U10398-2 and also Appendix A in this report.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

2400 to 2483.5 MHz Authorized Band

Frequency Range	Output Power	Output Power	
(MHz)	(dBm)	(mW)	
2402 - 2480	-3.94	0.40	

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a ¼ wavelength wire antenna with a maximum gain of 0 dBi.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Kernel, rev.1.04.

The EUT driver software installed in the equipment during testing was WiFi (sis16x.o) driver version 1.0 for WiFi RX operation only.

The test utility software used during testing was T1.0X for Bluetooth operation.

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 2441MHz.

Preliminary test was done on EUT stand-alone with and without AC/DC adapter mode at three orthogonal positions, and EUT sitting on Y position with AC/DC adapter was determined as the worst-case mode.

DESCRIPTION OF TEST SETUP 5.6.

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST					
Description	Manufacturer	Model	Serial Number	FCC ID	
AC Adapter	Franmar Internation	FR30-052480-7	0618G	DoC	
Earphone	Made in China	NA	NA	NA	

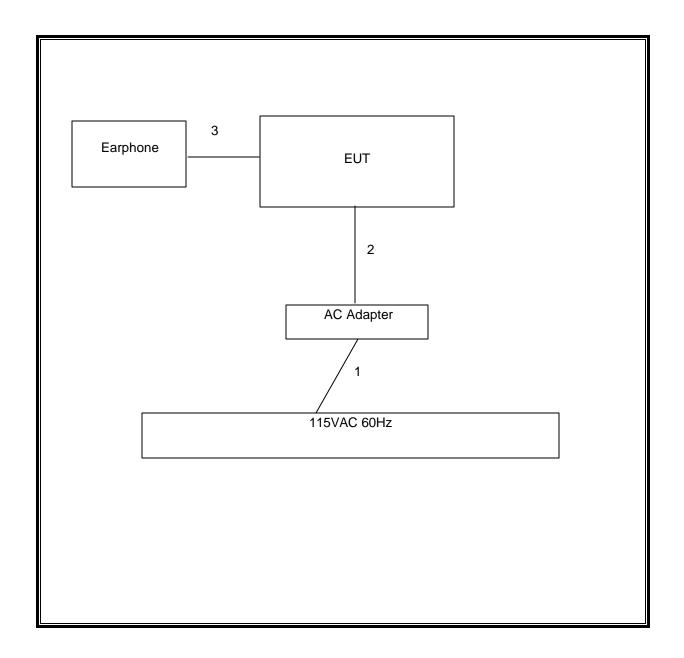
I/O CABLES

	I/O CABLE LIST					
Cable	Port	# of	Connector	Cable	Cable	Remarks
No.		Identical	Type	Type	Length	
		Ports				
1	AC	1	US 115V	Un-shielded	2m	NA
2	DC	1	DC	Un-shielded	2m	Ferrite on EUT's end
3	Earphone	1	Din	Un-shielded	2m	Ferrite on EUT's end

TEST SETUP

The EUT was standalone during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



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	
Peak Power Meter	Agilent / HP	E4416A	GB41291160	12/2/2007	
Peak / Average Power Sensor	Agilent	E9327A	US40440755	12/2/2007	
Spectrum Analyzer 3 Hz ~ 44 GHz	Agilent / HP	E4446A	MY43360112	5/3/2007	
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6717	4/22/2007	
Preamplifier, 1 ~ 26.5 GHz	Agilent / HP	8449B	3008A00931	6/24/2007	
EMI Receiver, 9 kHz ~ 2.9 GHz	Agilent / HP	8542E	3942A00286	2/4/2007	
RF Filter Section	Agilent / HP	85420E	3705A00256	2/4/2007	
Antenna, Bilog 30 MHz ~ 2 Ghz	Sunol Sciences	JB1	A121003	9/3/2006	
EMI Test Receiver	R&S	ESHS 20	827129/006	6/3/2007	
LISN, 10 kHz ~ 30 MHz	FCC	LISN-50/250-25-2	2023	8/30/2006	

7. LIMITS AND RESULTS

7.1. **ANTENNA PORT CHANNEL TESTS**

7.1.1. 20 dB BANDWIDTH

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

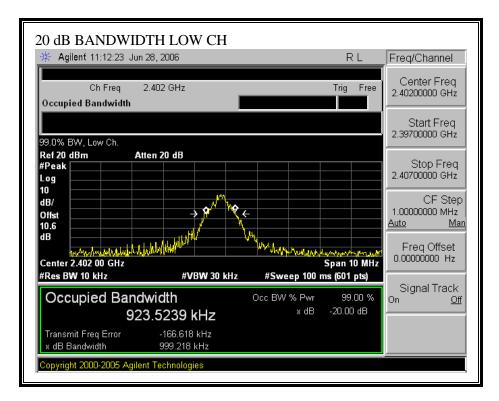
The transmitter output is connected to a spectrum analyzer. The RBW is set to 1% to 3% of the 20 dB bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled.

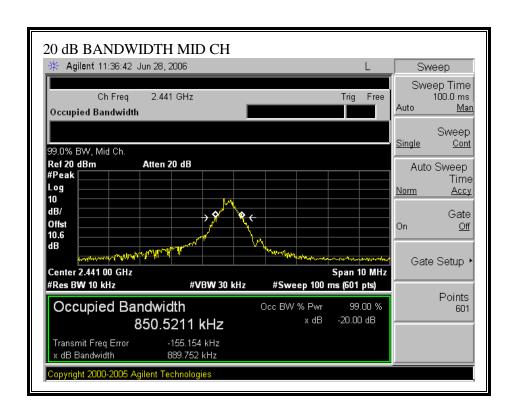
RESULTS

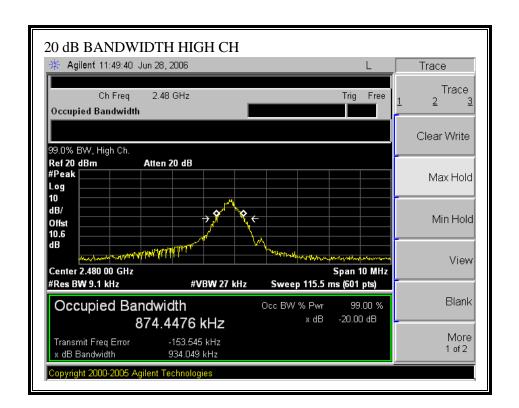
No non-compliance noted:

Channel	Frequency	20 dB Bandwidth
	(MHz)	(kHz)
Low	2402	999.218
Middle	2441	889.752
High	2480	934.049

20 dB BANDWIDTH







7.1.2. HOPPING FREQUENCY SEPARATION

LIMIT

§15.247 (a) (1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hoping channel, whichever is greater.

TEST PROCEDURE

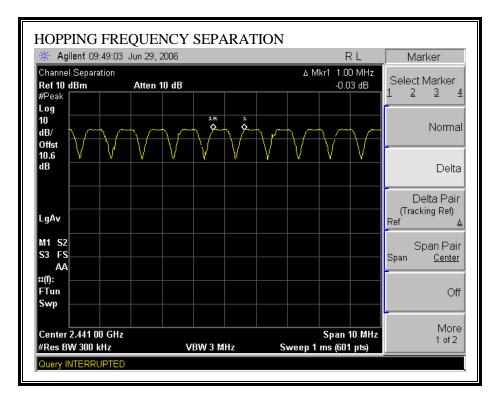
The transmitter output is connected to a spectrum analyzer. The RBW is set to 100 kHz and the VBW is set to 100 kHz. The sweep time is coupled.

RESULTS

No non-compliance noted:

Channel	Frequency	CHANNEL	20 dB	Margin
		SEPARATION		
	(MHz)	(kHz)	(kHz)	(kHz)
Middle	2441	1000	999.218	0.78

HOPPING FREQUENCY SEPARATION



7.1.3. NUMBER OF HOPPING CHANNELS

LIMIT

§15.247 (a) (1) (iii) Frequency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 nonoverlapping channels.

TEST PROCEDURE

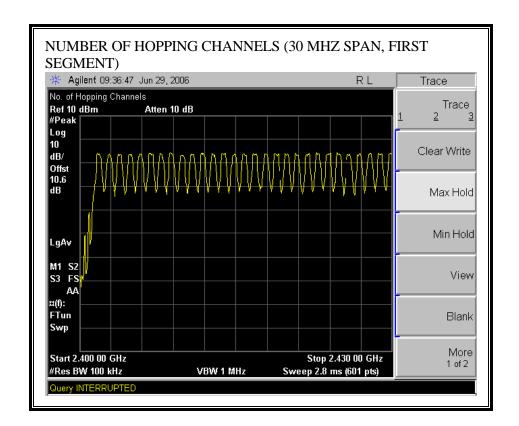
The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to 1 % of the span. The analyzer is set to Max Hold.

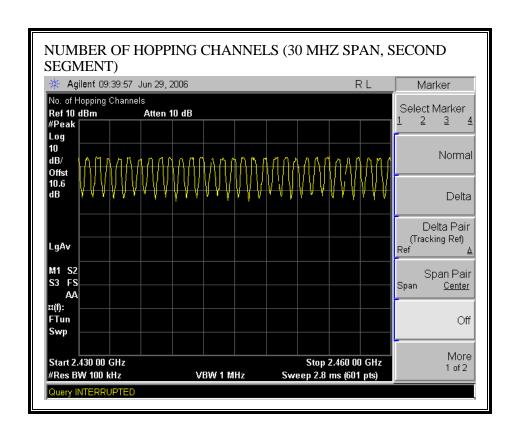
RESULTS

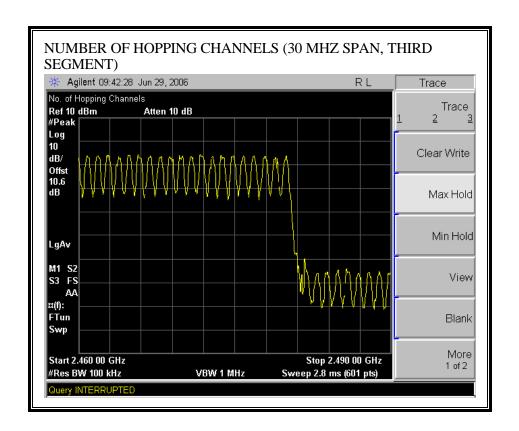
No non-compliance noted:

79 Channels observed.

NUMBER OF HOPPING CHANNELS







7.1.4. AVERAGE TIME OF OCCUPANCY

LIMIT

§15.247 (a) (1) (iii) Frequency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 nonoverlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The span is set to 0 Hz, centered on a single, selected hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured in a 3.16 second scan, to enable resolution of each occurrence.

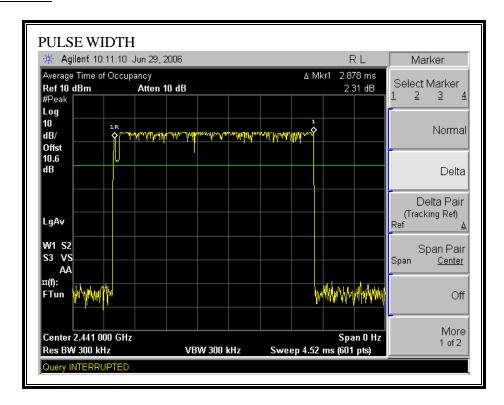
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to 10 * (# of pulses in 3.16 s) * pulse width.

RESULTS

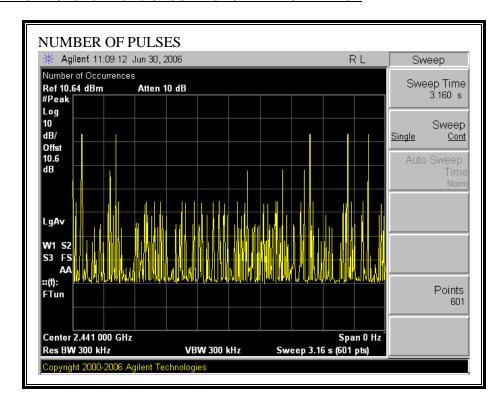
No non-compliance noted:

Pulse Width	Number of Pulses in 3.16 seconds	Average Time of Occupancy	Limit	Margin
(msec)		(sec)	(sec)	(sec)
2.878	8	0.230	0.4	0.170

PULSE WIDTH



NUMBER OF PULSES IN 3.16 SECOND OBSERVATION PERIOD



7.1.5. PEAK OUTPUT POWER

PEAK POWER LIMIT

§15.247 (b) The maximum peak output power of the intentional radiator shall not exceed the following:

§15.247 (b) (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels: 1 watt.

§15.247 (b) (4) Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The maximum antenna gain is 0 dBi, therefore the limit is 30 dBm.

TEST PROCEDURE

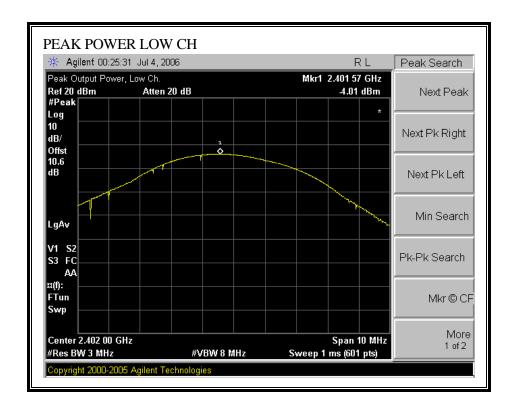
The transmitter output is connected to a spectrum analyzer and the analyzer bandwidth is set to a value greater than the 20 dB bandwidth of the EUT.

RESULTS

No non-compliance noted:

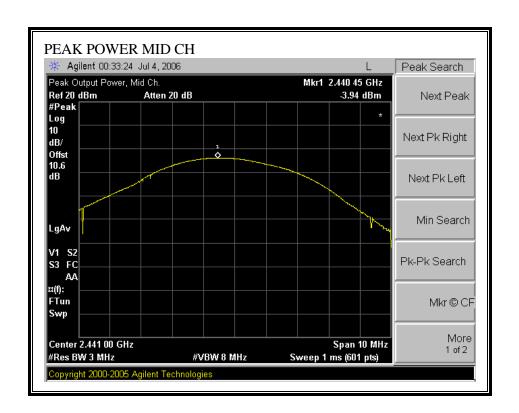
Channel	Frequency	Peak Power	Limit	Margin
	(MHz)	(dBm)	(dBm)	(dB)
Low	2402	-4.01	30	-34.01
Middle	2441	-3.94	30	-33.94
High	2480	-4.12	30	-34.12

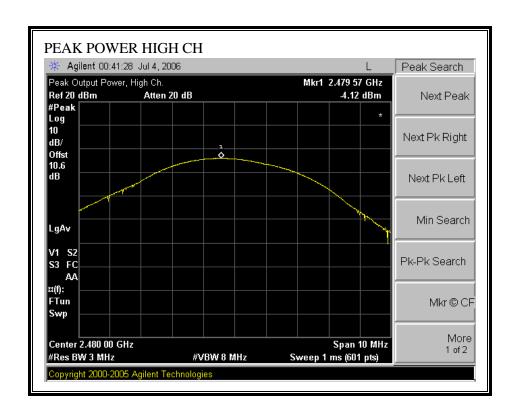
OUTPUT POWER



DATE: JULY 20, 2006

FCC ID: UEBHTT01





7.1.6. AVERAGE POWER

AVERAGE POWER LIMIT

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

No non-compliance noted:

The cable assembly insertion loss of 10.64 dB (including 10 dB pad and 0.64 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency	Average Power
	(MHz)	(dBm)
Low	2402	-7.14
Middle	2441	-7.02
High	2480	-6.93

7.1.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

§15.247 (c) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in \$15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

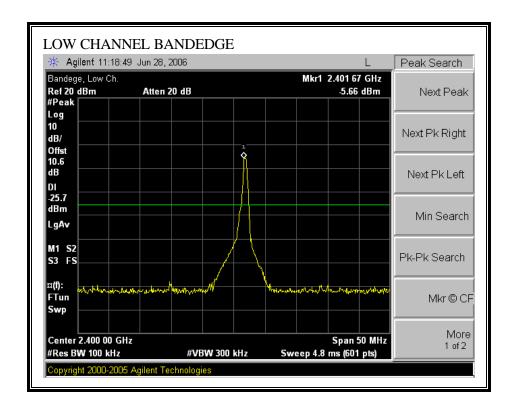
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

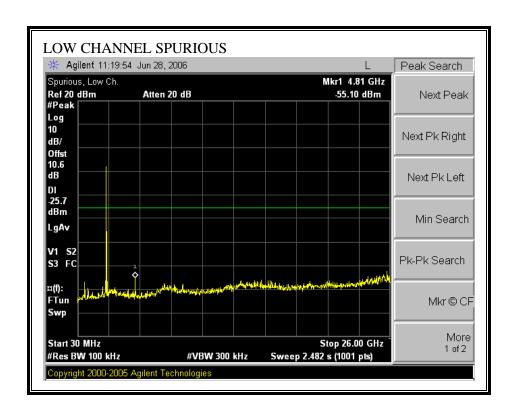
RESULTS

No non-compliance noted:

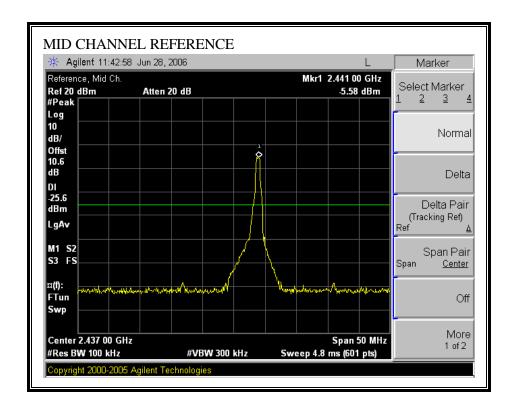
SPURIOUS EMISSIONS, LOW CHANNEL

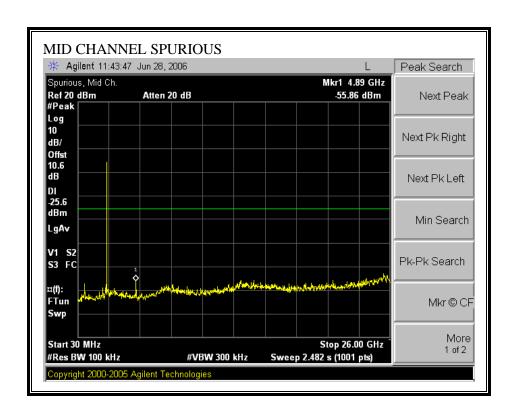


FCC ID: UEBHTT01

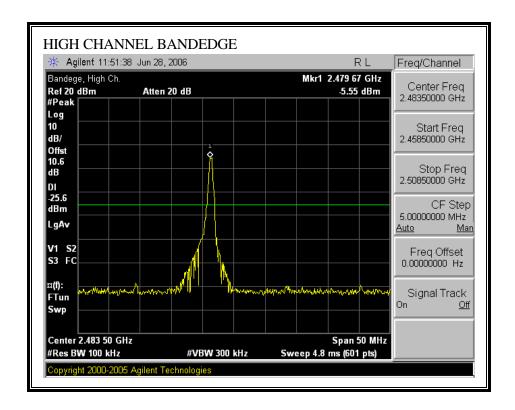


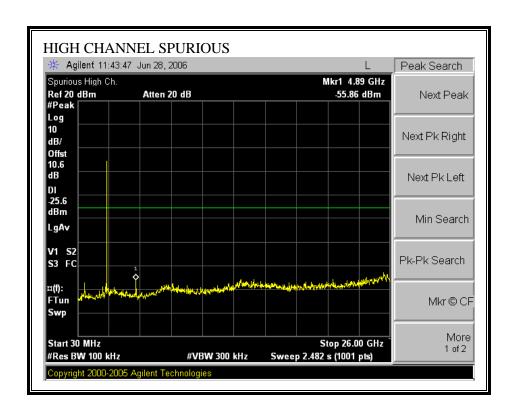
SPURIOUS EMISSIONS, MID CHANNEL



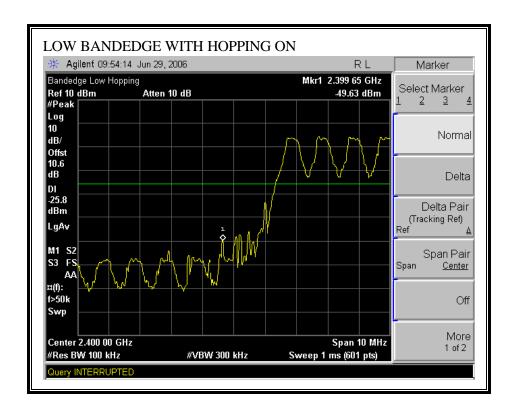


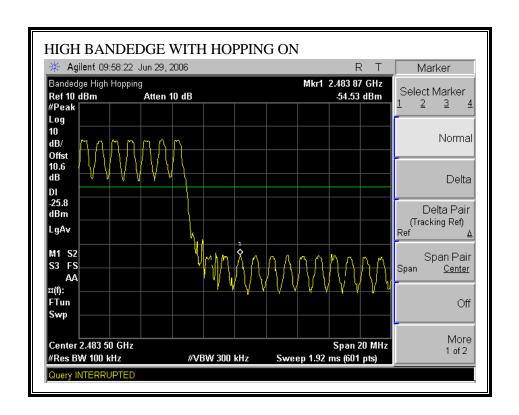
SPURIOUS EMISSIONS, HIGH CHANNEL





SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON





7.2. RADIATED EMISSIONS

7.2.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS

LIMITS

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	$\binom{2}{}$
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

^{§15.209 (}b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

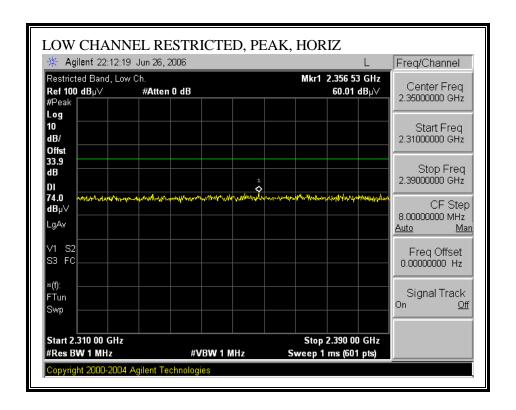
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

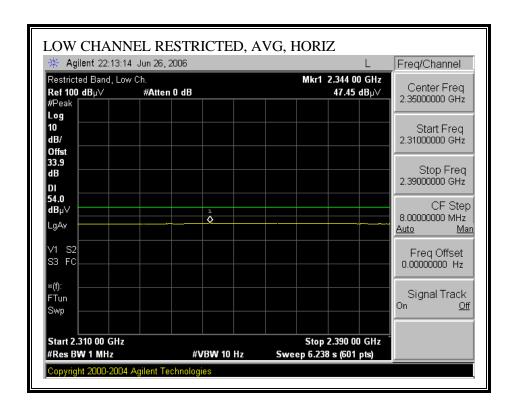
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each 5 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

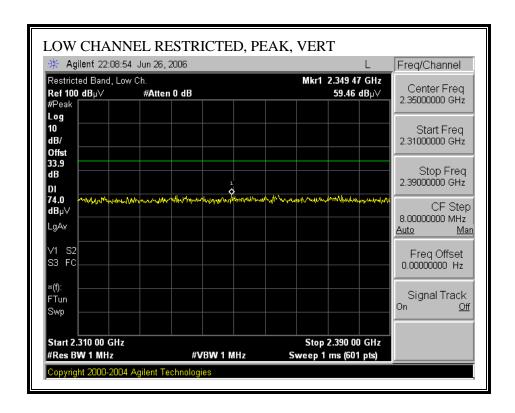
7.2.2. TRANSMITTER RADIATED EMISSIONS ABOVE 1 GHZ

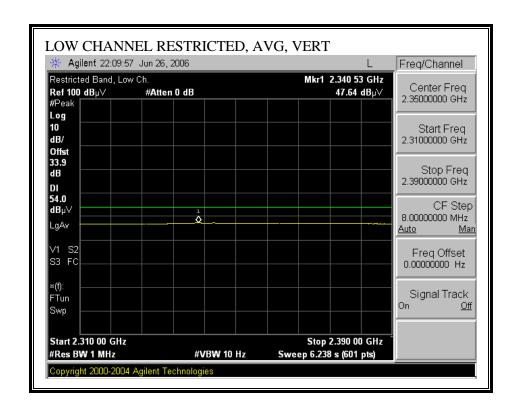
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



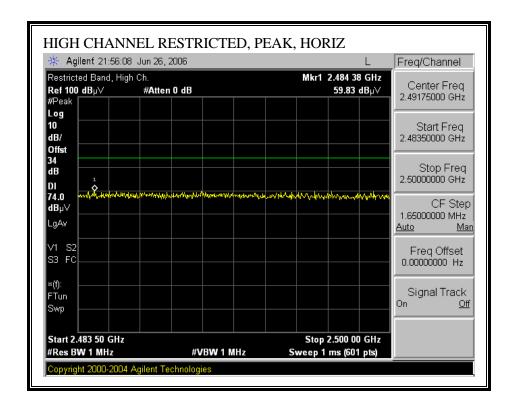


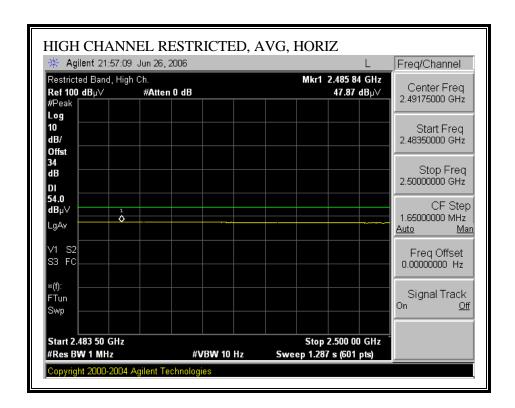
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



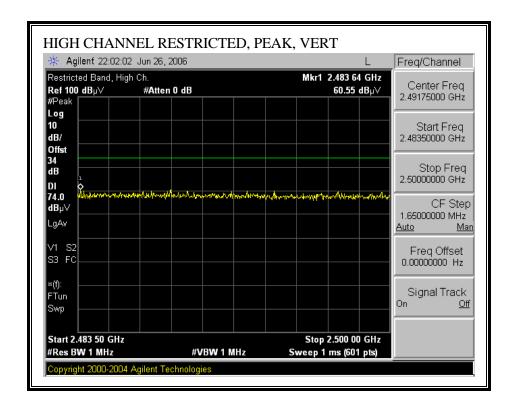


RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



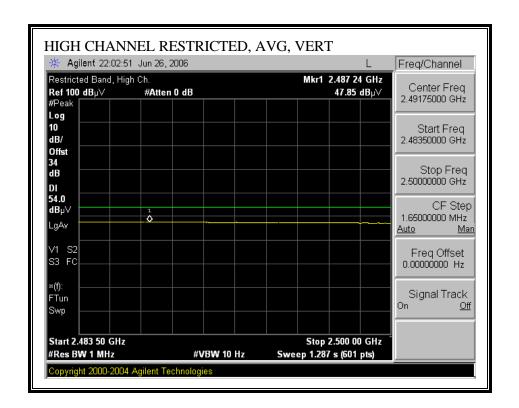


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

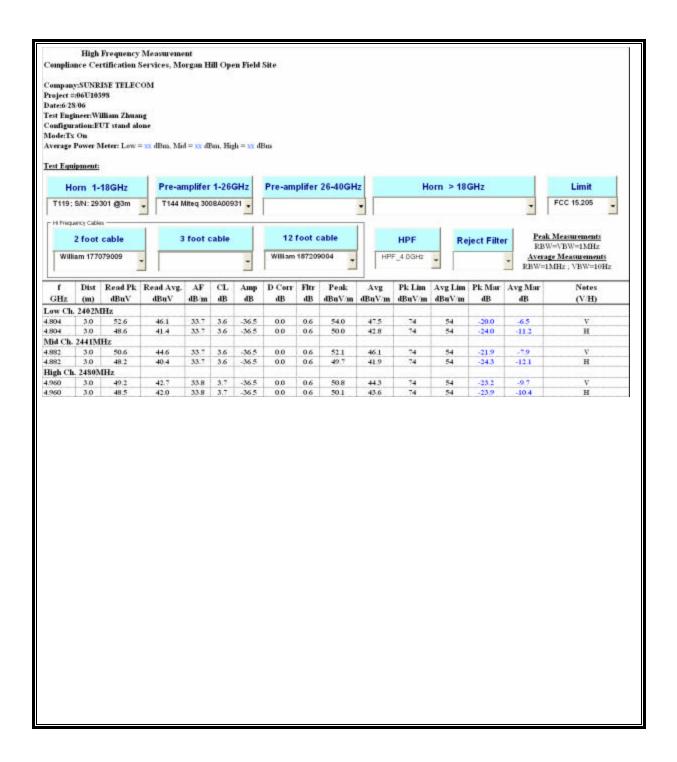


DATE: JULY 20, 2006

FCC ID: UEBHTT01

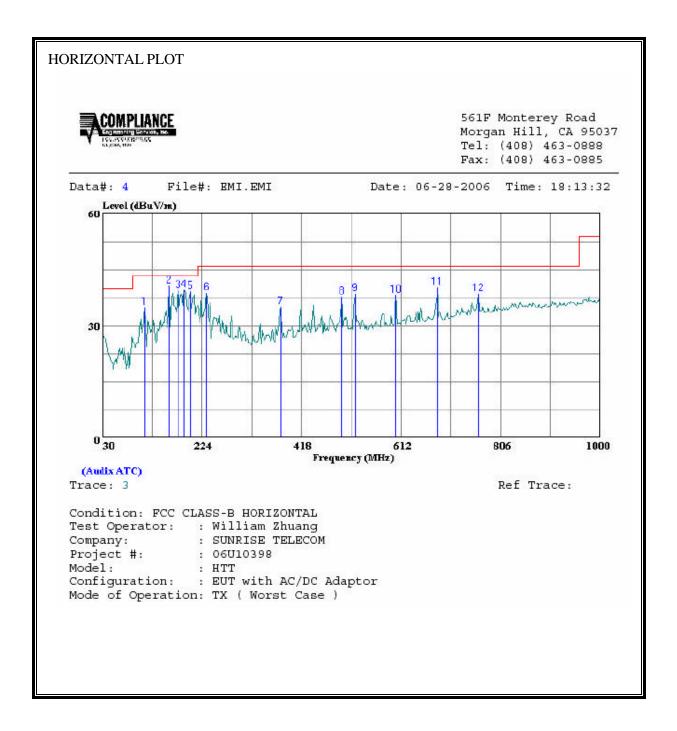


HARMONICS AND SPURIOUS EMISSIONS



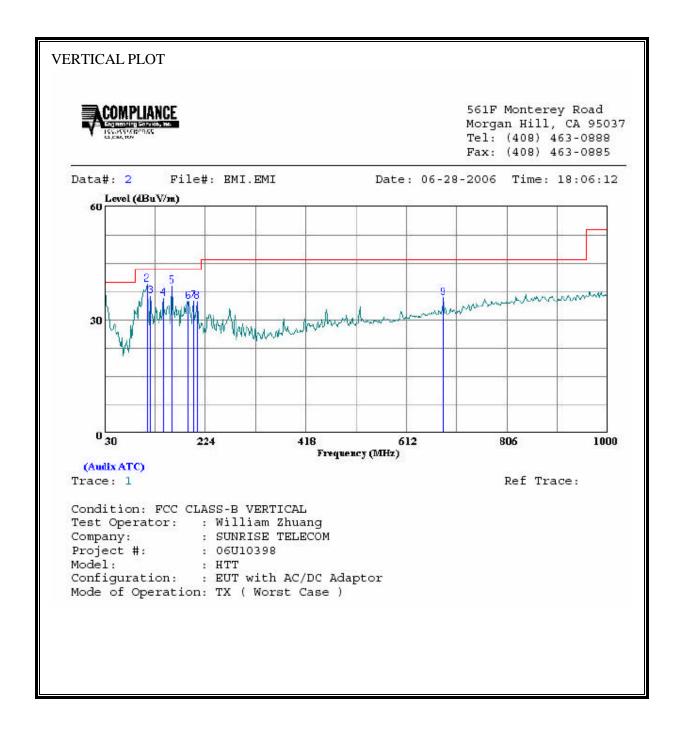
7.2.3. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



НО	RIZO	NTAL DATA	A						
						-1.1.	_		Page: 1
		Frea	Read Level		Level	Limit Line	Over Limit		
	_	-							
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
	1	111.480				43.50			
	2	159.980				43.50			
	3	177.440							
	4	189.080							
	5 6	201.690 232.730							
	7	378.230							
	8	497.540							
	9	521.790							
	10	601.330							
	11	681.840							
	Data#	t: 4 Fi	le#: E	MI.EMI		Dat	e: 06-2	8-2006	Time: 18:13:32
			Read				Over		Page: 2
		Freq	Level	Factor	Level	Line	Limit	Remark	
		MHz	dBuV	dB	$\overline{\mathtt{dBuV/m}}$	$\overline{\mathtt{dBuV/m}}$	dB		
	12	761.380	14.51	24.02	38.53	46.00	-7.47	Peak	
l									

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



VERTICA	AL DATA							
		Read			Limit	Over		Page: 1
	Freq		Factor	Level	Line			
	MHz	dBuV	dB	$\overline{\text{dBuV/m}}$	$\overline{\text{dBuV/m}}$	dB		
1	30.000	17.57			40.00			
2	111.480				43.50			
3	119.240				43.50			
4	143.490				43.50			
5 6	159.980				43.50			
7	191.020 201.690				43.50 43.50			
8	201.690				43.50			
9	681.840				46.00			
,	001.040	13.04	22.00	35.50	40.00	-10.10	reak	

7.3. POWERLINE CONDUCTED EMISSIONS

LIMIT

§15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

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.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both peak detection and quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Line conducted data is recorded for both NEUTRAL and HOT lines.

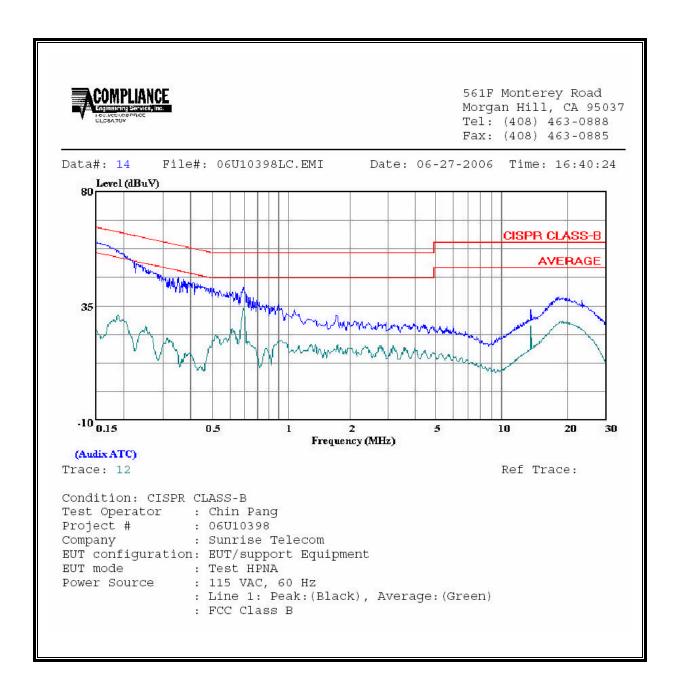
RESULTS

No non-compliance noted:

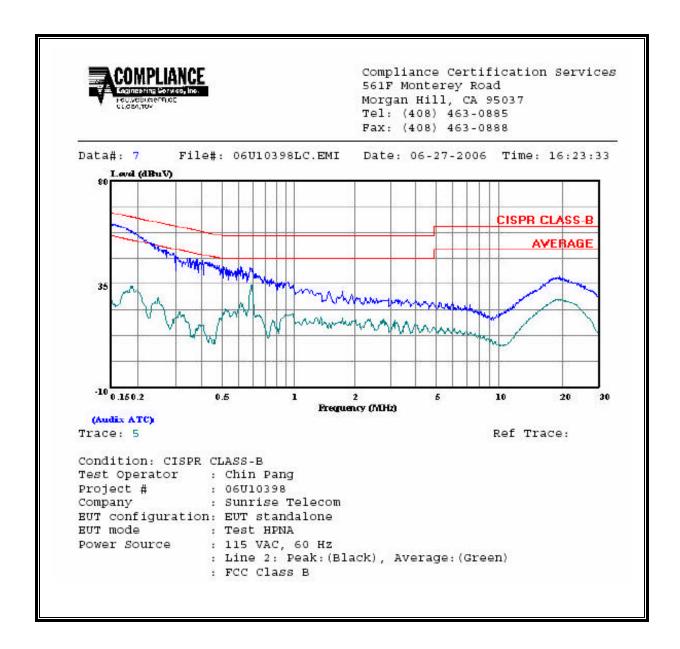
6 WORST EMISSIONS

	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
0.17	58.98		31.32	0.00	65.16	55.16	-6.18	-23.84	L1
0.69	42.18		33.84	0.00	56.00	46.00	-13.82	-12.16	L1
18.14	37.82		28.52	0.00	60.00	50.00	-22.18	-21.48	L1
0.17	59.67		33.95	0.00	64.96	54.96	-5.29	-21.01	L2
0.69	41.70		34.58	0.00	56.00	46.00	-14.30	-11.42	L2
19.43	38.12		28.28	0.00	60.00	50.00	-21.88	-21.72	L2
6 Worst	 Data 								

LINE 1 RESULTS

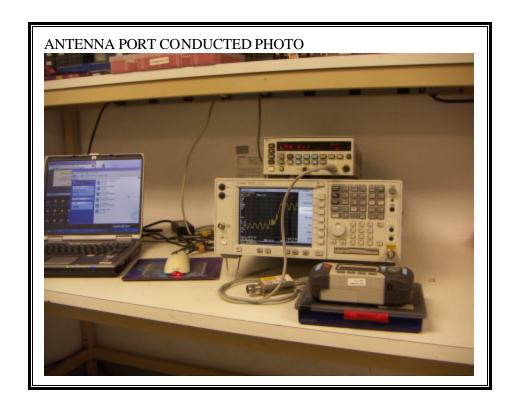


LINE 2 RESULTS

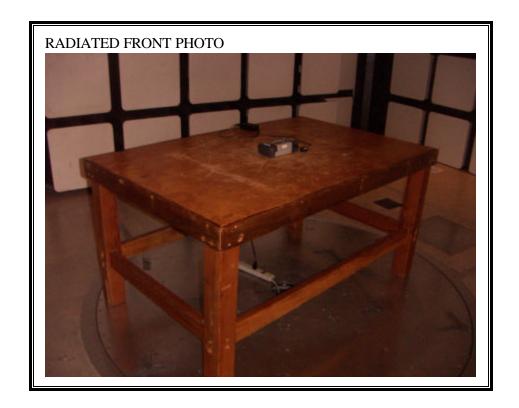


8. SETUP PHOTOS

ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



RADIATED RF MEASUREMENT SETUP





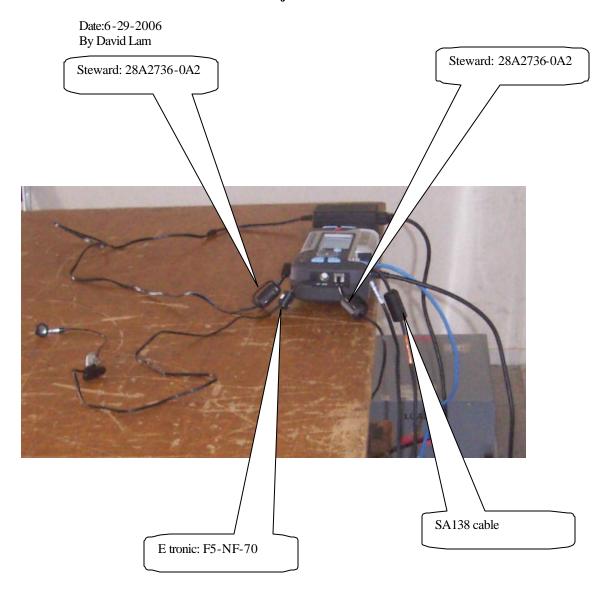
POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP





APPENDIX A - MODIFICATIONS TO EUT FOR DITITAL CLASS A DEVICE

HTT Project EMI Modification



END OF REPORT

Page 63 of 63

DATE: JULY 20, 2006

FCC ID: UEBHTT01