



Test Report
And Application for Grant of Equipment Authorization

TEST REPORT PERTAINING TO:

Equipment Under Test	Model Number(s)	FCC ID
Wireless Device Server	WB2100LFS-03	R68WIBATTV3

CONFIGURATION

802.11b & 802.11g module with a
Wanshih 2.15dBi Reverse SMA Antenna (MN: WSS002)

MEASUREMENTS PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARD (S)

Regulatory Standard(s)

47 CFR Part 15, Subpart C Section 15.247

Test Method:

ANSI C63.4: 2003 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz



Certificate Number: 1111.01

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Test Report #: LANTR-080507F

Test Report Revision: NONE

	REPORT BODY	APPENDICES		TOTAL PAGES
		A	B	
PAGES	14	46	1	61

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1.0 REGULATORY COMPLIANCE GUIDELINES

Aegis Labs, Inc. operates as both a Nevada and California Corporation with no organizational or financial relationship with any company, institution, or private individual. Testing and engineering functions provided by Aegis Labs were furnished by RF technicians and engineers with accredited qualifications and training credentials to carry out their duties.

The object of this report was to publish verifiable test results of an EUT subjected to the tests outlined in the standard listed on the cover page of this report.

1.1 Guidelines For Testing To Emissions Standards

This standard for EMC emission requirements apply to electrical equipment for Information Technology Equipment (ITE). Compliance to these standards and in combination with the other standards listed in this test report can be used to demonstrate presumption of compliance with the protection requirements of the appropriate agency standard.

The purpose of this standard is to specify minimum requirements for emissions regarding electromagnetic compatibility (EMC) and protect the radio frequency spectrum 9 kHz. – 400 GHz. from unwanted interference generated from electrical/digital systems that intentionally or unintentionally generated RF energy. The emissions standards, normative documents and/or publications were used to conduct all tests performed on the equipment herein referred to as “Equipment Under Test”.



2.0 SUMMARY OF TEST RESULTS

802.11b Mode (2400-2483.5 MHz)

EMISSIONS STANDARD

FCC Part 15 Section	Description	Results	Comments
15.247(a)(2)	The minimum 6dB bandwidth shall be at least 500 kHz.	PASSED	2412 MHz = 10.08 MHz 2437 MHz = 10.08 MHz 2462 MHz = 10.25 MHz
15.247(b)(3)	The maximum peak output power of the intentional radiator shall not exceed 1 watt.	PASSED	2412 MHz = 17.00 dBm = 50.12 mW 2437 MHz = 16.07 dBm = 40.46 mW 2462 MHz = 16.06 dBm = 40.36 mW
15.247(b)(5)	The intentional radiator shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the FCC guidelines per Section 1.1307(b)(1).	PASSED	Refer to SAR Test Report
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.	PASSED	See Data Sheets
15.247(c)	Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.	PASSED	See Data Sheets
15.247(d)	The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	PASSED	2412 MHz = -14.17 dB 2437 MHz = -15.17 dB 2462 MHz = -12.33 dB
15.207	AC Conducted Emissions	PASSED	See Data Sheets
15.209	Radiated Emissions (30-1000 MHz)	PASSED	See Data Sheets

2.0 Summary of Test Results (Continued)

802.11g Mode (2400-2483.5 MHz)

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.247(a)(2)	The minimum 6dB bandwidth shall be at least 500 kHz.	PASSED	2412 MHz = 16.58 MHz 2437 MHz = 16.50 MHz 2462 MHz = 16.58 MHz
15.247(b)(3)	The maximum peak output power of the intentional radiator shall not exceed 1 watt.	PASSED	2412 MHz = 20.15 dBm = 103.51 mW 2437 MHz = 19.63 dBm = 91.83 mW 2462 MHz = 19.55 dBm = 90.16 mW
15.247(b)(5)	The intentional radiator shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the FCC guidelines per Section 1.1307(b)(1).	PASSED	Refer to SAR Test Report
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.	PASSED	See Data Sheets
15.247(c)	Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.	PASSED	See Data Sheets
15.247(d)	The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	PASSED	2412 MHz = -15.00 dB 2437 MHz = -16.50 dB 2462 MHz = -15.67 dB
15.207	AC Conducted Emissions	PASSED	See Data Sheets
15.209	Radiated Emissions (30-1000 MHz)	PASSED	See Data Sheets

ANALYSIS AND CONCLUSIONS

Based upon the measurement results we find that this equipment is within the limits of the standard listed on the cover page of this test report. All results are based on a test of one sample. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

Approval Signatories

Test and Report Completed By:



07/10/08

Po-wen Chengs
Test Engineer
Aegis Labs, Inc.

Date:

Report Approved By:



07/11/08

Rick Candelas
Quality Assurance & EMC Lab Manager
Aegis Labs, Inc.

Date:



3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

DEVICE TESTED:	ITE Type: Wireless Device Server Model Number(s): WB2100LFS-03 Serial Number: None FCC ID: R68WIBATTV3
DATE EUT RECEIVED:	June 27 th , 2008
TEST DATE(S):	June 27 th , July 7 th – 10 th , 2007
ORIGIN OF TEST SAMPLE(S):	Production
EQUIPMENT CLASS:	EUT tested as CLASS B device
RESPONSIBLE PARTY:	Lantronix Inc. 15353 Barranca Parkway Irvine, CA 92618
CLIENT CONTACT:	Mr. Van Quach
MANUFACTURER:	Lantronix Inc.
TEST LOCATION:	Aegis Labs, Inc. 32231 Trabuco Creek Road Trabuco Canyon, CA 92678 Open Area Test Site: #1 & #2
ACCREDITATION CERTIFICATE(s):	A2LA Certificate Number: 1111.01, Valid through February 28, 2010
PURPOSE OF TEST:	To demonstrate compliance with the standards as described in Sections 1.0 & 2.0 of this report.
UNCERTAINTY BUDGET:	Proficiency Testing and Uncertainty Calculations for all tests indicated in this report have been conducted in accordance with ISO 17025: 2005 requirements Section 5.4.6, and 5.9. Uncertainty Budgets and Proficiency Test results available upon request.
STATEMENT OF CALIBRATION:	All accredited equipment calibrations were performed by Liberty Labs, Inc. and World Cal. with typical calibration uncertainty estimates derived from ISO Guide to the determination of uncertainties with a Coverage Factor of k=2 for 95% level of confidence.

4.0 DESCRIPTION OF EUT CONFIGURATION

4.1 EUT Description

Equipment Under Test (EUT)	
Trade Name:	Wireless Device Server
Model Number:	WB2100LFS-03
Frequency Range:	802.11b/g = 2400 – 2483.5 MHz
Type of Transmission:	Direct Sequence Spread Spectrum
Transfer Rate:	1/5.5/11 Mbps for 802.11b mode 6/36/54 Mbps for 802.11g mode
Number of Channels:	802.11b mode (2400-2483.5 MHz) = 11 802.11g mode (2400-2483.5 MHz) = 11
Modulation Type:	DBPSK, DQPSK, CCK, OFDM
Antenna Type:	External Antenna with Reverse SMA connector
Antenna Gain (See Note 2):	2.4 GHz = 2.15dBi
Transmit Output Power:	Ch. 1-11 14dBm Average (Typical) for 802.11b mode Ch. 1-11: 10dBm Average (Typical) for 802.11g mode Please see Appendix A (Data Sheets) for actual output power.
Power Supply:	7.5VDC input from external 120VAC Adapter
Number of External Test Ports Exercised:	1 Antenna Port & 1 Serial Port

The Wireless Device Server provides a network-enabling solution based on the IEEE 802.11b/g wireless standard.

It was tested as a standalone device with a Wanshih (MN: WSS002) antenna continuously transmitting and receiving from the antenna port.

NOTE 1: For a more detailed description, please refer to the manufacture’s specifications or User’s Manual.

NOTE 2: The EUT was tested with a Wanshih antenna. (Refer to the antenna specifications exhibits).



4.2 EUT Configuration

The EUT was tested as a standalone device connected to a remotely located Dell computer via its serial port (RJ-11). The Dell computer was then connected to a Linksys wireless router, a Dell monitor, an Antec keyboard and IBM mouse via its Ethernet, video, keyboard and mouse ports respectively. A Wanshih external antenna (MN: WSS002) was connected to the EUT's antenna ports via its reverse SMA antenna connector. Data for the Wanshih antenna can be found in Appendix A (Data Sheets).

The low, middle, and high channels were tested in 802.11b/g mode. The EUT was placed in either continuous transmit or continuous receive mode by a program provided by the manufacturer (*Linktest*).

4.3 List of EUT, Sub-Assemblies and Host Equipment

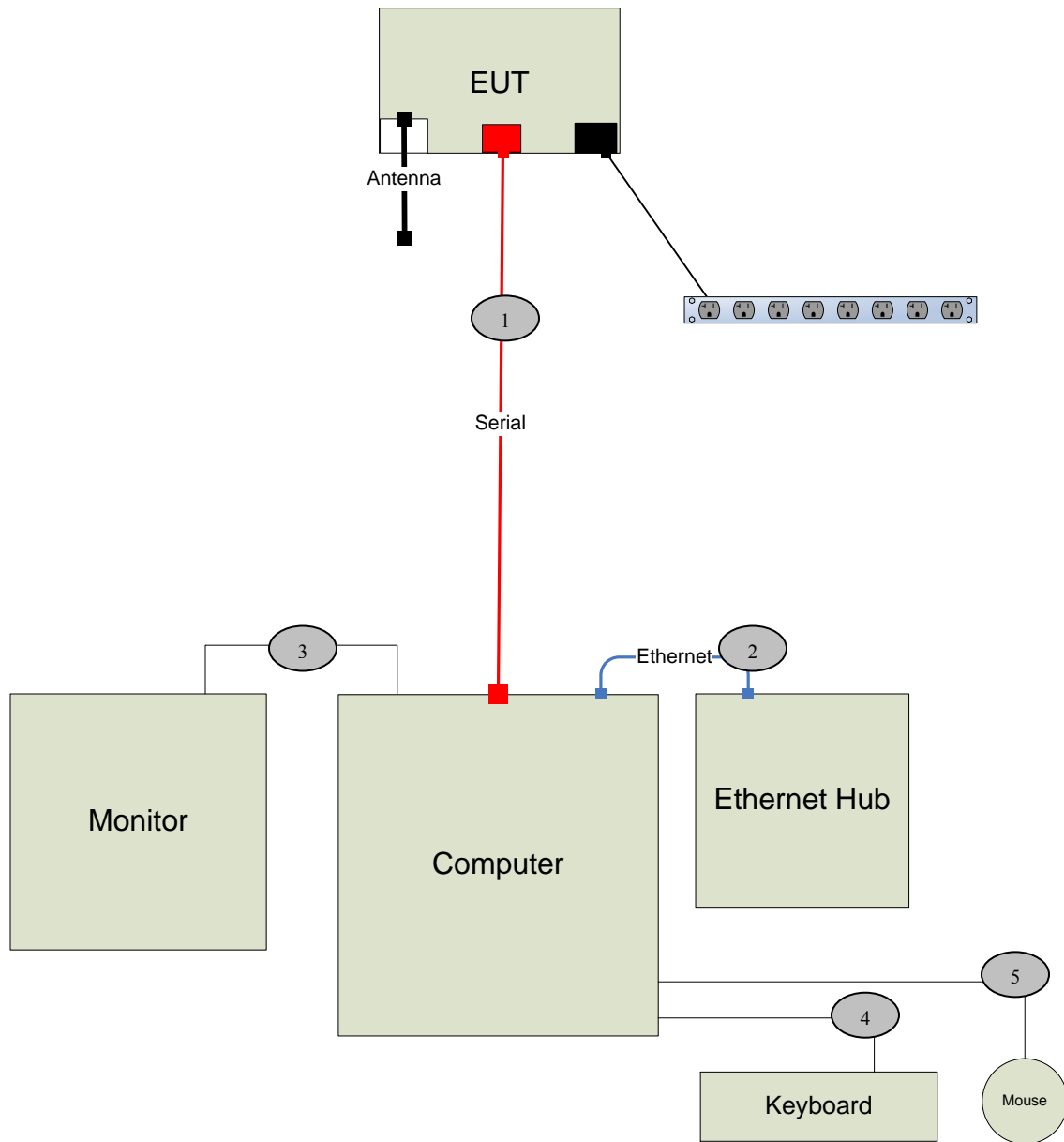
Equipment Under Test			
Manufacturer	Equipment Name	Model or Part Number	Serial Number
Lantronix Inc.	Wireless Device Server	WB2100LFS-03	None

EUT Sub Assemblies			
Manufacturer	Equipment Name	Model or Part Number	Serial Number
Wanshih	External Antenna	WSS002	None
Group West	Power Supply	12UR-7.5-1500	N/A
Top Microsystems	Power Supply	AYY-SAW-0751500	T054196

Remotely Located Support Equipment			
Manufacturer	Equipment Name	Model or Part Number	Serial Number
Dell	Host Computer	L866r	EMLCC01
Dell	Monitor	E550	MY-07753T-46632-9BR-23D1
Antec	Keyboard	K290	H0102105641
IBM	Mouse	MO28VO	23-151242
Linksys	Router	WRT54G ver.4	CDFA0E616322

NOTE: All the power cords of the above support equipment are standard and non-shielded.

4.4 I/O Cabling Diagram and Description





4.4 I/O Cabling Diagram and Description (continued)

Signal Line Cable Description							
Cable	Length	Construction	Source Connector	Destination Connector	Bundled Length	Ferrite Attached	Note
1	10.0m	Serial Cable	EUT's Serial Port: RJ-11	Host Computer: Metallic DB-9	N/A	N/A	N/A
2	1.5m	Round, Un-Shielded Twisted Pair (CAT 5)	Linksys Hub: Plastic RJ-45	Host Computer: Plastic RJ-45	N/A	N/A	N/A
3	1.5m	Round, Braid & Foil Shielded	Host Computer: Metallic DB-15	Monitor: Hardwired	N/A	N/A	N/A
4	1.5m	Round, Braid & Foil Shielded	Host Computer: Metallic 8-pin Mini DIN	Keyboard: Hardwired	N/A	N/A	N/A
5	1.5m	Round, Braid & Foil Shielded	Host Computer: Metallic 8-pin Mini DIN	Mouse: Hardwired	N/A	N/A	N/A



4.5 EMC Test Hardware and Software Measurement Equipment

TEST EQUIPMENT LIST - Emissions					
Equipment Name	Manufacturer	Model Number	Serial Number	Calibration Due Date	Maintenance Calibration Cycle
Spectrum Analyzer	Agilent	8565EC	3946A00245	07/24/08	1 Year
Antenna - Horn	ETS	3117	57423	03/21/09	1 Year
Preamp	Aegis Labs, Inc	AEGIS-OATS1-1-18	001	07/27/08	1 Year
30 Foot Coax - Armored	Semflex	0619	S130SFBS10360	07/26/08	1 Year
2.4 GHz Notch Filter	Micro-Tronics	BRM50702-02	003	NCR	NCR
Antenna - 18-26.5 GHz Pre-amplified Horn	Aegis Labs, Inc.	H042	SLK-35-3W	02/08/09	1 Year
EMI Receiver - RF Section	Hewlett Packard	8546A	3737A00407	10/09/08	1 Year
EMI Receiver - RF Filter Section	Hewlett Packard	85460A	3704A00399	10/09/08	1 Year
Antenna - Biconical	EMCO	3110	9108-1421	06/30/09	1 Year
Antenna - Log Periodic	EMCO	3148	4947	06/30/09	1 Year
Power Meter	Anritsu	ML2487A	6K00001785	05/29/09	1 Year
Wide Bandwidth Sensor	Anritsu	MA2491A	31193	05/29/09	1 Year
12dB Attenuator	Narda	4779-12	203	06/09/09	1 Year
Temperature/Humidity Monitor	Dickson	TH550	7255185	04/13/09	1 Year

5.0 CONDITIONS DURING EMISSIONS MEASUREMENTS

5.1 General

All measurements were made according to the procedures defined in or referred to by the standard listed on the cover page of this report. The measurements were made in the operating mode producing the largest emissions consistent with normal operation and connected to the minimum configuration of auxiliary devices.

5.2 Conducted Emissions Test Setup

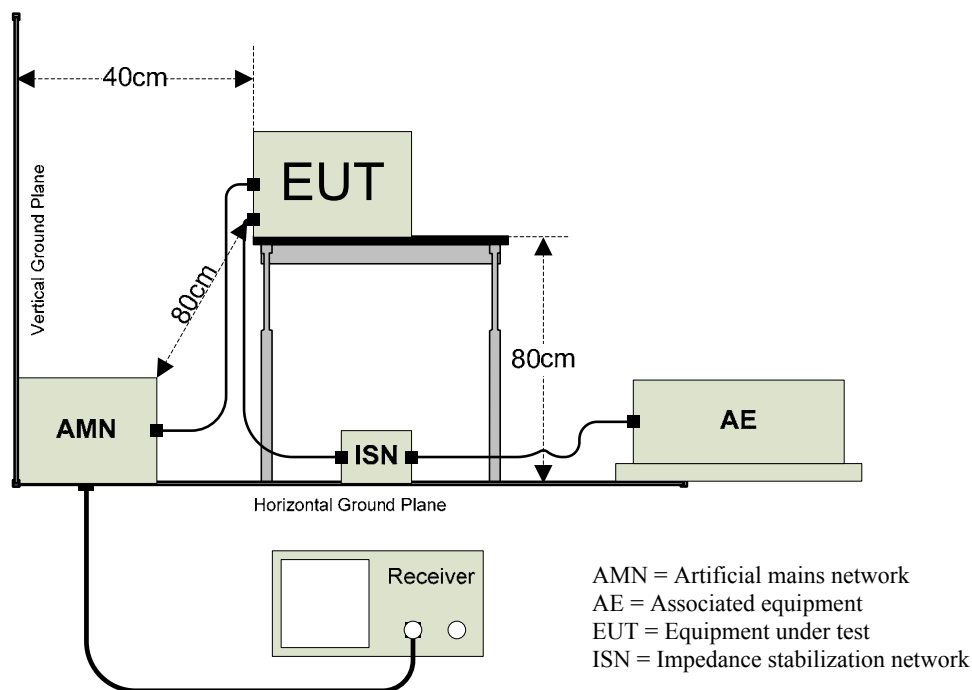
The following was the test configuration.

EUT signal cables that hung closer than 40 cm to the horizontal metal ground plane were folded back and forth forming a bundle 30 cm to 40 cm long. The power cord of the EUT was also bundled in the center and plugged into one of the artificial mains network (AMN). All peripheral equipment was powered from a second AMN via a multiple outlet strip placed at a distance on 10cm from each other. The AMN and ISN were positioned 80cm from the EUT. Signal cables that were not connected to an AE were terminated using the correct termination. If applicable, the current probe was placed at 0.1 m from the ISN.

Peak, quasi-peak and/or average detectors were used for testing performed between 150 kHz and 30 MHz. A swept frequency scan was performed for both Line 1 and Line 2. The six highest readings were compared against the limit and recorded in the data sheet along with a snapshot image of the sweep scan. The graphical scans in Appendix A only reflect peak readings while the tabulated data sheets reflect peak, average, and/or quasi-peak measurements.

Climatic Conditions:

The EUT was tested within its intended operating and climatic conditions.



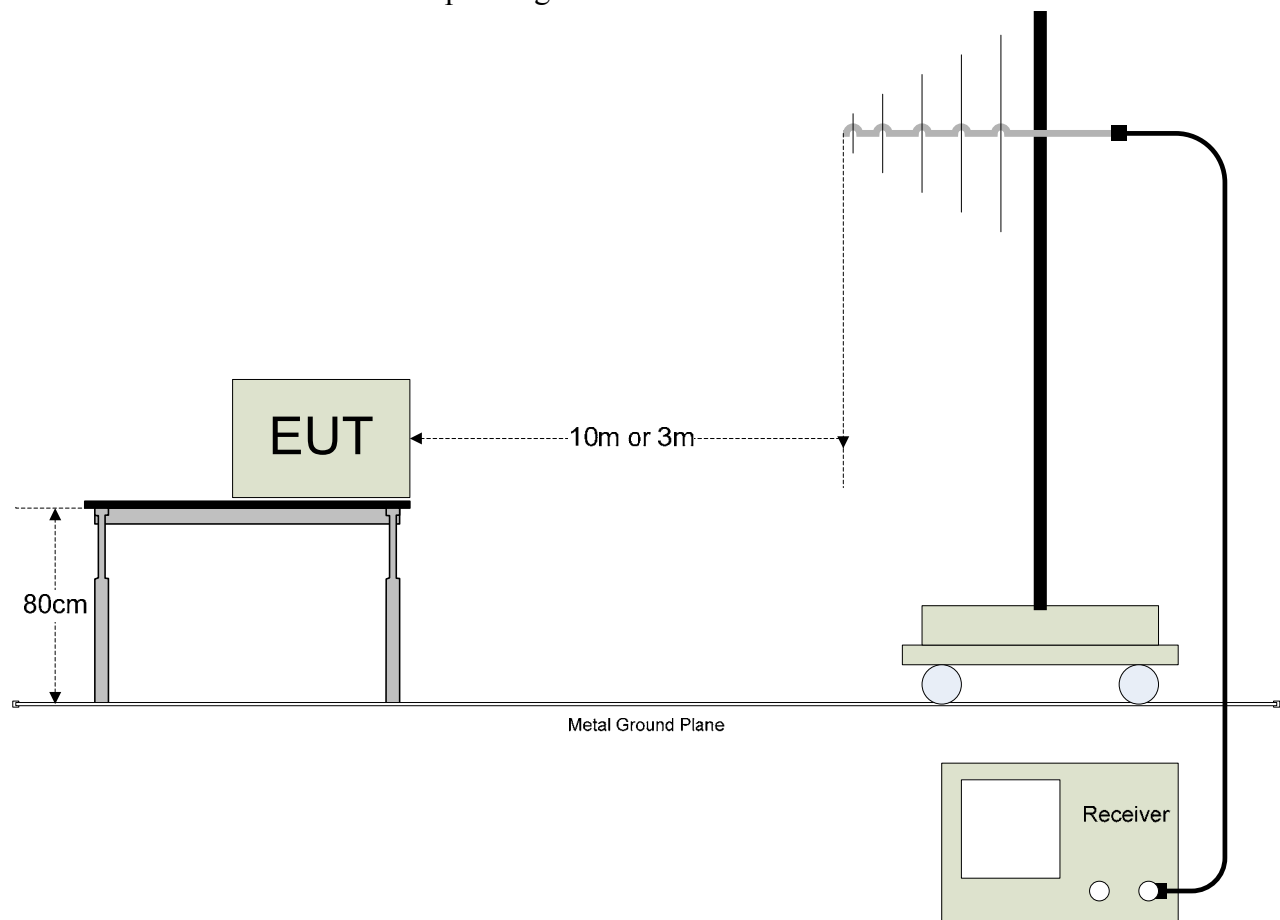
5.3 Radiated Emissions Test Setup

The Open Area Test Site (OATS) was used for radiated emission testing. The receiving (Rx) antenna(s) was placed 10m from the nearest side of the EUT facing the Rx antenna. The EUT (if floor-standing) was placed directly on the flush-mounted 360 degree rotating turntable. The EUT (if table-top) was placed directly on an 80cm high non-metallic table, and the table was placed on the rotating turntable. During the initial EMI scan, all the suspect frequencies, i.e.; harmonics, broadband signals were checked with the Rx broadband antennas in both vertical and horizontal polarities. The biconical Rx, log periodic Rx, and horn Rx antennas were used from 30MHz – 299.99MHz, 300MHz – 1000MHz, and 1GHz – 18GHz respectively.

Upon completion of all harmonic and broadband measurements, the balance of any remaining frequencies was checked between 30MHz – 18GHz. Any signals appearing within 20 dB of the classification limit was measured. Each signal was maximized by first rotating the turntable at least 360 degrees and recording the azimuth in the data sheet. Lastly, the Rx antenna was raised and/or lowered to maximize the signal elevation. If the measured signal was obtained using the peak detector and that signal appeared within 3 dB of the regulatory limit line, then the same signal was re-measured using the quasi-peak detector on the EMI receiver. Both meter readings if necessary were recorded on the data sheet.

Climatic Conditions:

The EUT was tested within its intended operating and climatic conditions.





APPENDIX A

TEST DATA

**AC POWER PORT - CONDUCTED EMISSIONS TEST RESULTS**

CLIENT:	Lantronix Inc.	DATE:	07/07/08
EUT:	Wireless Device Server	PROJECT NUMBER:	LANTR-080507
MODEL NUMBER:	WB2100LFS-03	TEST ENGINEER:	PC
SERIAL NUMBER:	None	SITE #:	1
CONFIGURATION:	Tested with Group West Power Adaptor and Top Microsystems Power Adapter	TEMPERATURE:	27 deg. C
		HUMIDITY:	25%
		TIME:	03:00 PM

Description:	Conducted Power RF Emissions (150 kHz – 30 MHz)
Results:	PASSED Limits
Note:	Conducted Emissions Measurements were performed on the EUT with the power source set at the following voltage. <ul style="list-style-type: none">• 120VAC / 60Hz

Conducted Limits		
Frequency (MHz)	Quasi-Peak Limit (dBuV)	Average Limit (dBuV)
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.

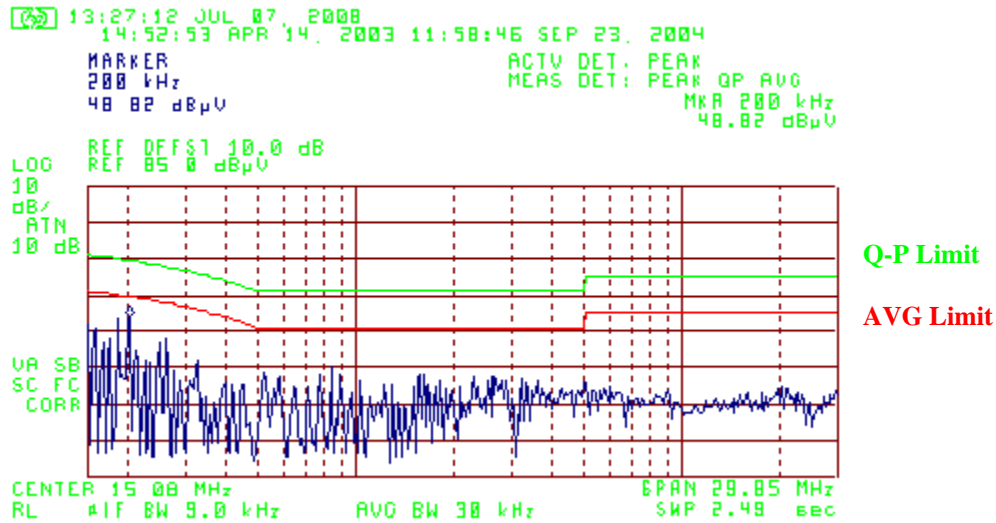


AC Power Port – Conducted Emissions Test Results (Continued)

Group West Power Adapter @ 120VAC / 60Hz (LANTR-080507-02)

FCC Part 15 CLASS B CONDUCTED EMISSIONS – LINE 1

Freq. (MHz)	Meter Reading (dBuV)	Detector (PK/QP/AV)	Average Limit (dBuV)	Average Delta(dB)	Quasi-Peak Limit (dBuV)	Quasi-Peak Delta(dB)
0.2000	48.82	PK	54.57	-5.75	64.57	-15.75
0.2000	34.55	AV	54.57	-20.02	64.57	-30.02
0.1900	48.38	PK	54.86	-6.48	64.86	-16.48
0.1600	45.64	PK	55.71	-10.07	65.71	-20.07
0.1800	42.76	PK	55.14	-12.38	65.14	-22.38
0.2600	42.66	PK	52.86	-10.20	62.86	-20.20
0.1700	42.01	PK	55.43	-13.42	65.43	-23.42



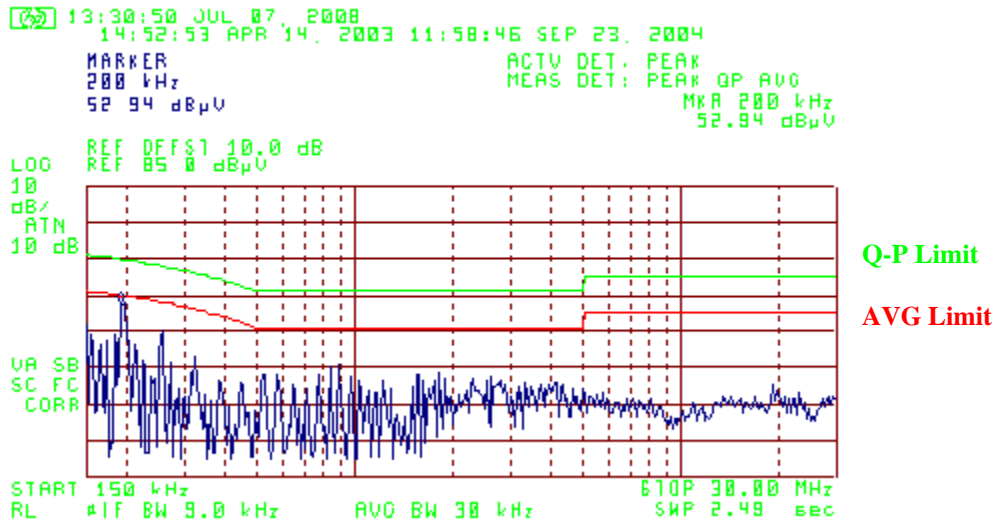


AC Power Port – Conducted Emissions Test Results (Continued)

Group West Power Adapter @ 120VAC / 60Hz (LANTR-080507-02)

FCC Part 15 CLASS B CONDUCTED EMISSIONS – LINE 2

Freq. (MHz)	Meter Reading (dBuV)	Detector (PK/QP/AV)	Average Limit (dBuV)	Average Delta(dB)	Quasi-Peak Limit (dBuV)	Quasi-Peak Delta(dB)
0.2000	52.94	PK	54.57	-1.63	64.57	-11.63
0.2000	35.37	AV	54.57	-19.20	64.57	-29.20
0.2600	44.93	PK	52.86	-7.93	62.86	-17.93
0.1800	44.25	PK	55.14	-10.89	65.14	-20.89
0.1600	43.92	PK	55.71	-11.79	65.71	-21.79
0.1700	42.43	PK	55.43	-13.00	65.43	-23.00
0.2100	41.04	PK	54.29	-13.25	64.29	-23.25



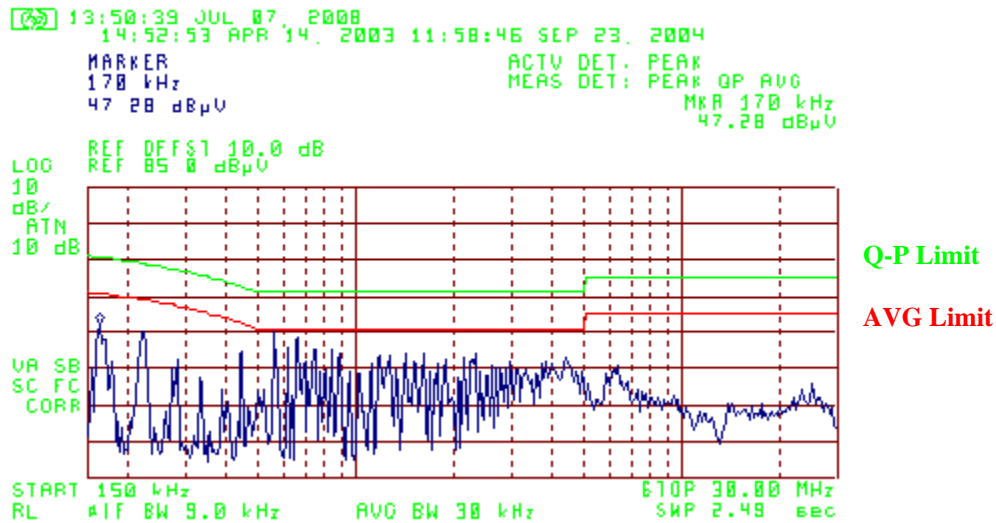


AC Power Port – Conducted Emissions Test Results (Continued)

Top Microsystems Power Adapter @ 120VAC / 60Hz (LANTR-080507-03)

FCC Part 15 CLASS B CONDUCTED EMISSIONS – LINE 1

Freq. (MHz)	Meter Reading (dBuV)	Detector (PK/QP/AV)	Average Limit (dBuV)	Average Delta(dB)	Quasi-Peak Limit (dBuV)	Quasi-Peak Delta(dB)
0.1700	47.28	PK	55.43	-8.15	65.43	-18.15
0.5600	45.82	PK	46.00	-0.18	56.00	-10.18
0.5600	27.93	AV	46.00	-18.07	56.00	-28.07
0.2300	44.79	PK	53.71	-8.92	63.71	-18.92
0.6600	43.43	PK	46.00	-2.57	56.00	-12.57
0.6600	26.53	AV	46.00	-19.47	56.00	-29.47
0.6200	40.77	PK	46.00	-5.23	56.00	-15.23
0.6200	23.55	AV	46.00	-22.45	56.00	-32.45
0.8600	40.21	PK	46.00	-5.79	56.00	-15.79
0.8600	9.45	AV	46.00	-36.55	56.00	-46.55



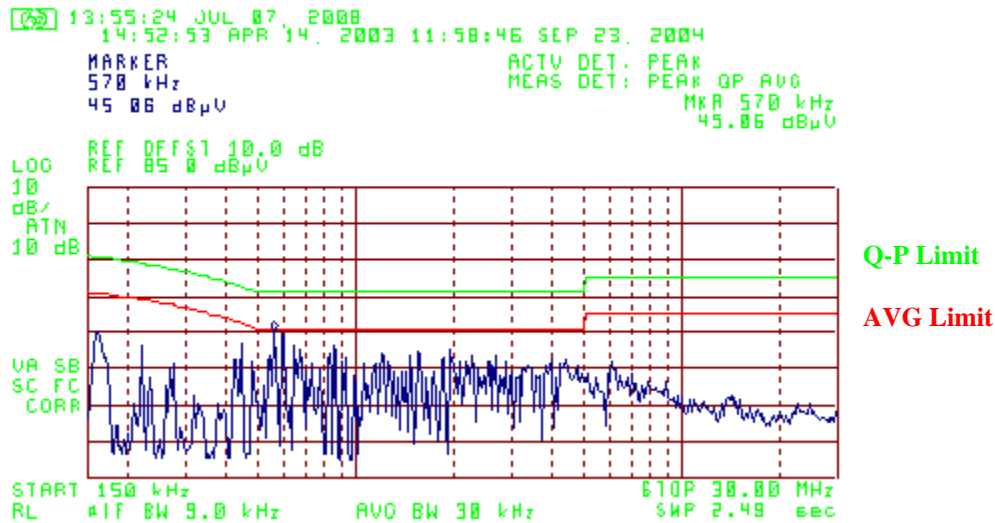


AC Power Port – Conducted Emissions Test Results (Continued)

Top Microsystems Power Adapter @ 120VAC / 60Hz (LANTR-080507-03)

FCC Part 15 CLASS B CONDUCTED EMISSIONS – LINE 2

Freq. (MHz)	Meter Reading (dBuV)	Detector (PK/QP/AV)	Average Limit (dBuV)	Average Delta(dB)	Quasi-Peak Limit (dBuV)	Quasi-Peak Delta(dB)
0.5700	45.06	PK	46.00	-0.94	56.00	-10.94
0.5700	19.45	AV	46.00	-26.55	56.00	-36.55
0.1600	44.79	PK	55.71	-10.92	65.71	-20.92
0.5900	44.50	PK	46.00	-1.50	56.00	-11.50
0.5900	9.38	AV	46.00	-36.62	56.00	-46.62
0.4500	41.85	PK	47.43	-5.58	57.43	-15.58
0.4500	25.65	AV	47.43	-21.78	57.43	-31.78
0.2200	41.21	PK	54.00	-12.79	64.00	-22.79
0.6500	40.95	PK	46.00	-5.05	56.00	-15.05
0.6500	23.43	AV	46.00	-22.57	56.00	-32.57



**RADIATED EMISSIONS TEST RESULTS**

CLIENT:	Lantronix Inc.	DATE:	07/10/08
EUT:	Wireless Device Server	PROJECT NUMBER:	LANTR-080507
MODEL NUMBER:	WB2100LFS-03	TEST ENGINEER:	PC
SERIAL NUMBER:	None	SITE #:	1
CONFIGURATION:	Tested with a Wanshih 2.15dBi antenna	TEMPERATURE:	27 deg. C
		HUMIDITY:	30% RH
		TIME:	01:00PM

Description:	Radiated RF Emissions (30 MHz – 1000 MHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	During preliminary scans, there wasn't any difference which channel or data rate was used with the EUT; therefore only 802.11b mode at Channel 1 with a data rate of 1 Mbps was used for final testing.

Radiated Limits	
Frequency (MHz)	Quasi-Peak Limit (dBuV)
30-88	40
88-216	43.52
216-960	46.02
960-1000	54

Radiated Emissions Sample Calculations

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + D$$



Radiated Emissions Test Results (Continued)

Wanshih @ 120VAC/60Hz (LANTR-080507-06a)

RADIATED EMISSIONS - Horizontal Antenna Polarization									
<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>	<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>
80.02	10.36	400	0		2.22	6.20	18.78	40.00	-21.22
111.39	4.58	400	0		2.32	11.41	18.31	43.50	-25.19
333.31	13.35	350	135		3.26	15.47	32.08	46.00	-13.92
374.99	8.82	300	135		3.44	15.70	27.96	46.00	-18.04
416.63	25.27	250	0	24.33 Q	3.60	16.70	44.63	46.00	-1.37

RADIATED EMISSIONS - Vertical Antenna Polarization									
<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>	<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>
49.88	15.94	100	0		1.99	11.34	29.26	40.00	-10.74
62.00	22.35	100	0		2.07	7.50	31.92	40.00	-8.08
66.00	22.78	100	0		2.10	6.90	31.78	40.00	-8.22
125.00	4.38	100	0		2.37	13.90	20.65	43.50	-22.85
135.96	4.45	100	0		2.42	14.74	21.61	43.50	-21.89
333.29	20.93	100	180		3.26	15.20	39.39	46.00	-6.61
416.63	18.17	100	135		3.60	16.10	37.87	46.00	-8.13

**RADIATED EMISSIONS TEST RESULTS**

CLIENT:	Lantronix Inc.	DATE:	07/08/08
EUT:	Wireless Device Server	PROJECT NUMBER:	LANTR-080507
MODEL NUMBER:	WB2100LFS-03	TEST ENGINEER:	PC
SERIAL NUMBER:	None	SITE #:	1
CONFIGURATION:	Tested in 802.11b (2400-2483.5 MHz) mode with a Wanshah 2.15dBi antenna.	TEMPERATURE:	25 deg. C
		HUMIDITY:	34% RH
		TIME:	08:40 AM

Description:	Radiated RF Emissions (1 GHz – 18 GHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"> • 120VAC / 60 Hz.

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 74.00 (Peak)	< -20 dBc

Radiated Emissions Sample Calculations

Corrected Meter Reading = Meter Reading + F + C - D

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + D$$



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11b mode (2400-2483.5 MHz)
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Wanshih Antenna
Aegis Labs, Inc. File #: LANTR-080507-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
2412.00	63.17	100	45			2.53	32.19	97.89			Ch. 1
2412.00				58.97	A	2.53	32.19	93.69			
2437.00	61.67	150	45			2.54	32.22	96.43			Ch. 6
2437.00				58.13	A	2.54	32.22	92.89			
2462.00	60.33	100	45			2.55	32.25	95.14			Ch. 11
2462.00				56.69	A	2.55	32.25	91.50			

RADIATED EMISSIONS – Vertical Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
2412.00	73.17	125	135			2.53	31.92	107.62			Ch. 1
2412.00				68.83	A	2.53	31.92	103.28			
2437.00	70.50	100	225			2.54	31.97	105.01			Ch. 6
2437.00				66.49	A	2.54	31.97	101.00			
2462.00	70.17	125	225			2.55	32.02	104.75			Ch. 11
2462.00				66.83	A	2.55	32.02	101.41			

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11b mode (2400-2483.5 MHz)
Channels 1 & 11
Continuous TX at MAIN Antenna port with Wanshih Antenna
Aegis Labs, Inc. File #: LANTR-080507-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
2390.00							45.72	74.00	-28.28	Ch. 1
2390.00				A			33.53	54.00	-20.47	
2400.00	31.00	100	45		2.52	32.18	65.70	77.89	-12.19	
2483.50							44.31	74.00	-29.69	Ch. 11
2483.50				A			32.17	54.00	-21.83	

RADIATED EMISSIONS – Vertical Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
2390.00							55.45	74.00	-18.55	Ch. 1
2390.00				A			43.12	54.00	-10.88	
2400.00	31.83	100	135		2.52	31.90	66.25	87.62	-21.37	
2483.50							53.92	74.00	-20.09	Ch. 11
2483.50				A			42.08	54.00	-11.93	

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = Fm - \Delta m$$

Where

BE = Band Edge Field Strength

Fm = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2400-2483.5 MHz)
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Wanshih Antenna
Aegis Labs, Inc. File #: LANTR-080507-05*

RADIATED EMISSIONS - Horizontal Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
4824.00	53.50	100	225			46.31	3.59	34.21	40.12	74.00	-33.88	Ch. 1
4824.00				41.21	A	46.31	3.59	34.21	27.83	54.00	-26.17	
4873.99	52.33	100	225			46.31	3.64	34.18	38.99	74.00	-35.01	Ch. 6
4873.99				40.56	A	46.31	3.64	34.18	27.22	54.00	-26.78	
4924.00	53.00	100	225			46.31	3.67	34.15	39.66	74.00	-34.34	Ch. 11
4924.00				40.44	A	46.31	3.67	34.15	27.10	54.00	-26.90	

RADIATED EMISSIONS - Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
4824.01	52.83	100	180			46.31	3.59	34.24	39.48	74.00	-34.52	Ch. 1
4824.01				40.86	A	46.31	3.59	34.24	27.51	54.00	-26.49	
4873.99	52.50	100	180			46.31	3.64	34.23	39.21	74.00	-34.79	Ch. 6
4873.99				40.19	A	46.31	3.64	34.23	26.90	54.00	-27.10	
4924.05	52.00	100	180			46.31	3.67	34.22	38.73	74.00	-35.27	Ch. 11
4924.05				40.10	A	46.31	3.67	34.22	26.83	54.00	-27.17	



Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in 802.11b mode (2400-2483.5 MHz)
Channels 1, 6, & 11
Continuous RX at MAIN Antenna port with Wanshih Antenna
Aegis Labs, Inc. File #: LANTR-080507-05

RADIATED EMISSIONS - Horizontal Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
4824.00	53.00	100	180			46.31	3.59	34.21	39.62	74.00	-34.38	Ch. 1
4824.00				40.62	A	46.31	3.59	34.21	27.24	54.00	-26.76	
4874.00	53.00	100	180			46.31	3.64	34.18	39.66	74.00	-34.34	Ch. 6
4874.00				40.19	A	46.31	3.64	34.18	26.85	54.00	-27.15	
4924.00	52.00	100	180			46.31	3.67	34.15	38.66	74.00	-35.34	Ch. 11
4924.00				40.25	A	46.31	3.67	34.15	26.91	54.00	-27.09	

RADIATED EMISSIONS - Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
4824.00	53.17	100	180			46.31	3.59	34.24	39.82	74.00	-34.18	Ch. 1
4824.00				41.04	A	46.31	3.59	34.24	27.69	54.00	-26.31	
4874.00	52.67	100	180			46.31	3.64	34.23	39.38	74.00	-34.62	Ch. 6
4874.00				40.53	A	46.31	3.64	34.23	27.24	54.00	-26.76	
4924.00	52.83	100	180			46.31	3.67	34.22	39.56	74.00	-34.44	Ch. 11
4924.00				40.47	A	46.31	3.67	34.22	27.20	54.00	-26.80	

**RADIATED EMISSIONS TEST RESULTS**

CLIENT:	Lantronix Inc.	DATE:	07/08/08
EUT:	Wireless Device Server	PROJECT NUMBER:	LANTR-080507
MODEL NUMBER:	WB2100LFS-03	TEST ENGINEER:	PC
SERIAL NUMBER:	None	SITE #:	1
CONFIGURATION:	Tested in 802.11g (2400-2483.5 MHz) mode with a Wanshah 2.15dBi antenna.	TEMPERATURE:	25 deg. C
		HUMIDITY:	34% RH
		TIME:	08:40 PM

Description:	Radiated RF Emissions (1 GHz – 18 GHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"> • 120VAC / 60 Hz.

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 74.00 (Peak)	< -20 dBc

Radiated Emissions Sample Calculations

Corrected Meter Reading = Meter Reading + F + C - D

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + D$$



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11g mode (2400-2483.5 MHz)
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Wanshih Antenna
Aegis Labs, Inc. File #: LANTR-080507-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
2412.00	60.17	100	45			2.53	32.19	94.89			Ch. 1
2412.00				51.83	A	2.53	32.19	86.55			
2437.00	60.33	200	180			2.54	32.22	95.09			Ch. 6
2437.00				51.54	A	2.54	32.22	86.30			
2462.00	59.17	150	45			2.55	32.25	93.98			Ch. 11
2462.00				50.59	A	2.55	32.25	85.40			

RADIATED EMISSIONS – Vertical Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
2412.00	71.17	100	135			2.53	31.92	105.62			Ch. 1
2412.00				62.56	A	2.53	31.92	97.01			
2437.00	68.17	150	135			2.54	31.97	102.68			Ch. 6
2437.00				59.57	A	2.54	31.97	94.08			
2462.00	67.67	100	225			2.55	32.02	102.25			Ch. 11
2462.00				58.93	A	2.55	32.02	93.51			

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11g mode (2400-2483.5 MHz)
Channels 1 & 11
Continuous TX at MAIN Antenna port with Wanshih Antenna
Aegis Labs, Inc. File #: LANTR-080507-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
2390.00							50.56	74.00	-23.44	Ch. 1
2390.00				A			36.88	54.00	-17.12	
2400.00	35.83	100	45		2.52	32.18	70.53	74.89	-4.36	
2483.50							47.31	74.00	-26.69	Ch. 11
2483.50				A			35.24	54.00	-18.76	

RADIATED EMISSIONS – Vertical Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
2390.00							61.29	74.00	-12.71	Ch. 1
2390.00				A			47.34	54.00	-6.66	
2400.00	44.83	100	135		2.52	31.90	79.25	85.62	-6.37	
2483.50							55.58	74.00	-18.43	Ch. 11
2483.50				A			43.35	54.00	-10.66	

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = Fm - \Delta m$$

Where

BE = Band Edge Field Strength

Fm = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2400-2483.5 MHz)
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Wanshih Antenna
Aegis Labs, Inc. File #: LANTR-080507-05*

RADIATED EMISSIONS - Horizontal Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
4824.00	52.83	100	225			46.31	3.59	34.21	39.45	74.00	-34.55	Ch. 1
4824.00				40.62	A	46.31	3.59	34.21	27.24	54.00	-26.76	
4873.99	52.50	100	225			46.31	3.64	34.18	39.16	74.00	-34.84	Ch. 6
4873.99				40.10	A	46.31	3.64	34.18	26.76	54.00	-27.24	
4924.00	52.50	100	225			46.31	3.67	34.15	39.16	74.00	-34.84	Ch. 11
4924.00				40.13	A	46.31	3.67	34.15	26.79	54.00	-27.21	

RADIATED EMISSIONS - Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
4824.00	52.17	100	180			46.31	3.59	34.24	38.82	74.00	-35.18	Ch. 1
4824.00				40.13	A	46.31	3.59	34.24	26.78	54.00	-27.22	
4873.99	52.50	100	180			46.31	3.64	34.23	39.21	74.00	-34.79	Ch. 6
4873.99				39.83	A	46.31	3.64	34.23	26.54	54.00	-27.46	
4924.00	51.67	100	180			46.31	3.67	34.22	38.40	74.00	-35.60	Ch. 11
4924.00				40.00	A	46.31	3.67	34.22	26.73	54.00	-27.27	

**PEAK TRANSMIT POWER**

CLIENT:	Lantronix Inc.	DATE:	07/07/08
EUT:	Wireless Device Server	PROJECT NUMBER:	LANTR-080507
MODEL NUMBER:	WB2100LFS-03	TEST ENGINEER:	PC
SERIAL NUMBER:	None	SITE #:	1
CONFIGURATION:	Tested with a Wanshih 2.15dBi antenna.	TEMPERATURE:	23 deg C
		HUMIDITY:	47%
		TIME:	09:00AM

Description:	The maximum peak output power of the intentional radiator shall not exceed 1 watt.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none">• 120VAC / 60 Hz.

Peak Transmit Power Limits	
Frequency (MHz)	Output Power (W)
2412-2462	1



Peak Transmit Power (Continued)

Mode	Channel	Frequency (MHz)	Rate (Mbps)	Average Power (dBm)	Average Power (mW)	Peak Power (dBm)	Peak Power (mW)
802.11b	1	2412	1	14.42	27.67	17.00	50.12
802.11b	1	2412	5.5	14.16	26.06	16.27	42.36
802.11b	1	2412	11	14.05	25.41	16.77	47.53
802.11b	6	2437	1	13.50	22.39	16.07	40.46
802.11b	6	2437	5.5	13.34	21.58	15.51	35.56
802.11b	6	2437	11	13.31	21.43	15.99	39.72
802.11b	11	2462	1	13.52	22.49	16.06	40.36
802.11b	11	2462	5.5	13.39	21.83	15.54	35.81
802.11b	11	2462	11	13.40	21.88	16.08	40.55
802.11g	1	2412	6	9.99	9.98	20.15	103.51
802.11g	1	2412	36	9.93	9.84	19.97	99.31
802.11g	1	2412	54	9.94	9.86	19.66	92.47
802.11g	6	2437	6	9.41	8.73	19.63	91.83
802.11g	6	2437	36	9.32	8.55	19.34	85.90
802.11g	6	2437	54	9.33	8.57	19.06	80.54
802.11g	11	2462	6	9.49	8.89	19.55	90.16
802.11g	11	2462	36	9.43	8.77	19.40	87.10
802.11g	11	2462	54	9.45	8.81	19.10	81.28

NOTE: The output power measurement is conducted.



6dB EMISSIONS BANDWIDTH

CLIENT:	Lantronix Inc.	DATE:	07/07/08
EUT:	Wireless Device Server	PROJECT NUMBER:	LANTR-080507
MODEL NUMBER:	WB2100LFS-03	TEST ENGINEER:	PC
SERIAL NUMBER:	None	SITE #:	1
CONFIGURATION:	Tested with a Wanshih 2.15dBi antenna.	TEMPERATURE:	23 deg C
		HUMIDITY:	47%
		TIME:	11:00 AM

Description:	The minimum 6 dB bandwidth shall be at least 500 kHz.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none">• 120VAC / 60 Hz.

**PEAK POWER SPECTRAL DENSITY**

CLIENT:	Lantronix Inc.	DATE:	07/07/08
EUT:	Wireless Device Server	PROJECT NUMBER:	LANTR-080507
MODEL NUMBER:	WB2100LFS-03	TEST ENGINEER:	PC
SERIAL NUMBER:	None	SITE #:	1
CONFIGURATION:	Tested with a Wanshih 2.15dBi antenna.	TEMPERATURE:	23deg C
		HUMIDITY:	47%
		TIME:	01:00 PM

Description:	The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none">• 120VAC / 60 Hz.

Peak Power Spectral Density Limits

Frequency (MHz)	Limit (dBm)
2412-2462	8

**CONDUCTED OUT OF BAND EMISSIONS**

CLIENT:	Lantronix Inc.	DATE:	07/07/08
EUT:	Wireless Device Server	PROJECT NUMBER:	LANTR-080507
MODEL NUMBER:	WB2100LFS-03	TEST ENGINEER:	PC
SERIAL NUMBER:	None	SITE #:	1
CONFIGURATION:	Tested with a Wanshih 2.15dBi antenna.	TEMPERATURE:	23deg C
		HUMIDITY:	45%
		TIME:	02:00 PM

Description:	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.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none">• 120VAC / 60 Hz.



APPENDIX B

MODIFICATIONS AND RECOMMENDATIONS

1.0	NONE