



QUALIFICATION TEST REPORT



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EMISSIONS -FCC Part 15

Test Report Number: 000912 123 Date of Issue: 11-9-00

Model No: World Wireless Date of Test Article Receipt: 09-19-00 to 09-22-00
902-928 MHz Transceiver

Type of product: Information Technology Equipment

Manufacturer: Len Gordon

Address: 7215 Bermuda Road
Las Vegas, Nevada 89119

Test Results: [X] Complies [] Does Not Comply

Michael E. Mueller

Lab Director
(NVLAP Signatory)

William Storie

Compliance Engineer

Accredited by NIST NVLAP for FCC Part 15

TEST REPORT

Disclaimers:

This report is the confidential property of the client. For the protection of our clients and ourselves, extracts from this test report cannot be produced without prior written approval from Criterion Technology. Reproduction of the complete report can be performed at the client's discretion.

The client is aware that Criterion Technology has performed testing in accordance with the applicable standard(s). Test data is accurate within ANSI parameters for Emissions testing, unless a specific level of accuracy has been defined in writing prior to testing, by Criterion Technology and the client.

Criterion Technology reports apply only to the specific Equipment Under Test (EUT) sample(s) tested under the test conditions described in this report. If the manufacturer intends to use this report as a document demonstrating compliance of this model, additional models of this product must have electrical and mechanical characteristics identical to the device tested for this report. Criterion Technology shall have no liability for any deductions, inferences, or generalizations drawn by the client or others from Criterion Technology issued reports.

Total liability is limited to the amount invoiced for the testing of this EUT and the contents of this report are not warranted.

Compliance with the appropriate governmental standards is the responsibility of the manufacturer. Any questions regarding this report should be directed to:

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NVLAP Note: Criterion Technology is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the specific scope of accreditation under Lab Code 100396-0. Test methods included in Lab Code 100396-0 are:

1. 12/CIS22 - IEC/CISPR22:1993
2. 12/CIS22a - IEC/CISPR22:1993, Amendment 1:1995 & Amendment 2:1996
3. 12/CIS22b - CNS13438:1997
4. 12/F01 - FCC Method - 47 Part 15 - Digital Devices
5. 12/F01a - Conducted Emissions, Power Lines, 450 kHz to 30 MHz
6. 12/F01b - Radiated Emissions
7. 12/T51 - AS/NZS 3548

The NVLAP Logo on the front cover of this report applies only to data taken for the above test methods.

This report may contain data which is not covered by the NVLAP accreditation.

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All Criterion Technology instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 9001, ISO Guide 25, ANSI/NCSL Z540-I-1994 and are traceable to national standards.

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Section 1 Executive Summary

The test article was in compliance with all the test standards listed below.

FCC Part 15 Subpart A	
FCC Part 15 Subpart B	Conducted Emissions
FCC Part 15 Subpart B	Radiated Emissions
FCC Part 15 Subpart C	Intentional Radiators

All test methods were performed in accordance with the standards listed above.

Section 2 Emissions Test Standards

The emissions tests were performed according to following standards:

FCC Part 15, Subpart B
FCC Part 15, Subpart C

☐ Class A

☒ Class B

Part 2.1 FCC Part 15 Subpart B - Conducted Emissions

Measurement of *conducted emissions* was performed as indicated below:

Environmental conditions of the lab:

Date of Test: 9-22-00
Temperature: 70 °F
Rel. Humidity: 41%
Test Voltage: 220 V, 60 Hz

Test location:

☐ Criterion Technology Open Area Test Site
☒ Criterion Shield Room
☐ In Situ

Test instruments: (see Section 6 for calibration information)

☒ Hewlett-Packard Spectrum Analyzer, Model 8566B
☐ Hewlett-Packard Quasi Peak Adapter, Model 85650A
☒ Rohde and Schwarz Receiver, Model ESHS-30
☐ Rohde and Schwarz Receiver, Model ESVS-30
☒ Rohde and Schwarz LISN, Model ESH2-Z5

Test accessories:

Test Results of Conducted Emission: 450 kHz - 30 MHz

Test Status: ☒ PASS ☐ FAIL

Minimum margin to limit: 13.6 dB at 0.520 MHz

Exceeded limit by: dB at MHz

Remarks: Reference Section 4 for data sheets

Part 2.2 FCC Part 15 Subpart B - Radiated Emissions

Measurement of *radiated emissions (electric field)* in the frequency range of 30 MHz-1000 MHz were tested in a horizontal and vertical polarization as indicated below:

Environmental conditions of the lab:

Date of Test: 9-19-00
 Temperature: 70 °F
 Rel. Humidity: 32%
 Test Voltage: 220 V, 60 Hz

Test location:

☒ Criterion Technology Open Area Test Site
☐ Pre-Scan In Semi-Anechoic Chamber
☐ In Situ

Test distance: (antenna to EUT)

☐ 1 meter	☐ Preliminary Measurement	☐ Final Measurement
☐ 3 meters	☐ Preliminary Measurement	☐ Final Measurement
☒ 10 meters	☒ Preliminary Measurement	☒ Final Measurement
☐ 30 meters	☐ Preliminary Measurement	☐ Final Measurement

Test instruments: (see Section 6 for calibration information)

☒ Hewlett-Packard Spectrum Analyzer, Model 8566B
☒ Hewlett-Packard Quasi Peak Adapter, Model 85650A
☐ Hewlett-Packard Tracking Generator, Model 85645A
☐ Rohde and Schwarz Receiver, Model ESHS-30
☒ Rohde and Schwarz Receiver, Model ESVS-30
☐ EMCO BiConnical Antenna, Model 3108
☐ EMCO Log Periodic Antenna, Model 3146
☒ Chase BiLog Antenna, Model 1121
☒ Mini Circuits Pre-Amp #2
☐ Veratech Pre-Amp #3
☐ Antenna Research Assoc. Horn Antenna, Model DRG118/A

Test accessories:**Test Results of Radiated Emissions: 30 MHz - 1000 MHz**

Test Status: ☒ PASS ☐ FAIL

Minimum margin to limit: 14.49 dB at 36.0007 MHz

Exceeded limit by: dB at MHz

Remarks: Reference Section 4 for Data Sheets

The EUT was modified as follows to meet the emissions specification levels:

Transmit Antenna trimmed to a length of 40mm.

Receive Antenna trimmed to a length of 36mm.

Part 2.3 FCC Part 15 Subpart C –Intentional Radiated Fields

Measurement of *radiated emissions (electric field)* in the frequency range of 30 MHz-10,000 MHz were tested in a horizontal and vertical polarization as indicated below:

Environmental conditions of the lab:

Date of Test: 9-19-00

Temperature: 70°F

Rel. Humidity: 32 %

Test Voltage: 120 V, 60 Hz

Test location:

- ☒ Criterion Technology Open Area Test Site
☐ Pre-Scan In Semi-Anechoic Chamber
☐ In Situ

Test distance: (antenna to EUT)

- | | | |
|---|---|---|
| ☐ 1 meter | ☐ Preliminary Measurement | ☐ Final Measurement |
| ☒ 3 meters | ☒ Preliminary Measurement | ☒ Final Measurement |
| ☒ 10 meters | ☒ Preliminary Measurement | ☒ Final Measurement |
| ☐ 30 meters | ☐ Preliminary Measurement | ☐ Final Measurement |

Test instruments: (see Section 7 for calibration information)

- ☒ Hewlett-Packard Spectrum Analyzer, Model 8566B
☒ Hewlett-Packard Quasi Peak Adapter, Model 85650A
☐ Hewlett-Packard Tracking Generator, Model 85645A
☐ Rohde and Schwarz Receiver, Model, ESHS-30
☒ Rohde and Schwarz Receiver, Model ESVS-30
☒ Chase BiLog Antenna, Model 1121
☐ Antenna Research, Model 1181A (sn: 1056)
☒ Amp3 and High Freq. Cable Set
☒ Mini Circuits Pre-Amp, Amp 2
☐ EMCO Loop Antenna, Model 6502

Test accessories:**Test Results of Radiated Emissions: 30 MHz - 10,000 MHz**

Test Status: ☒ PASS ☐ FAIL

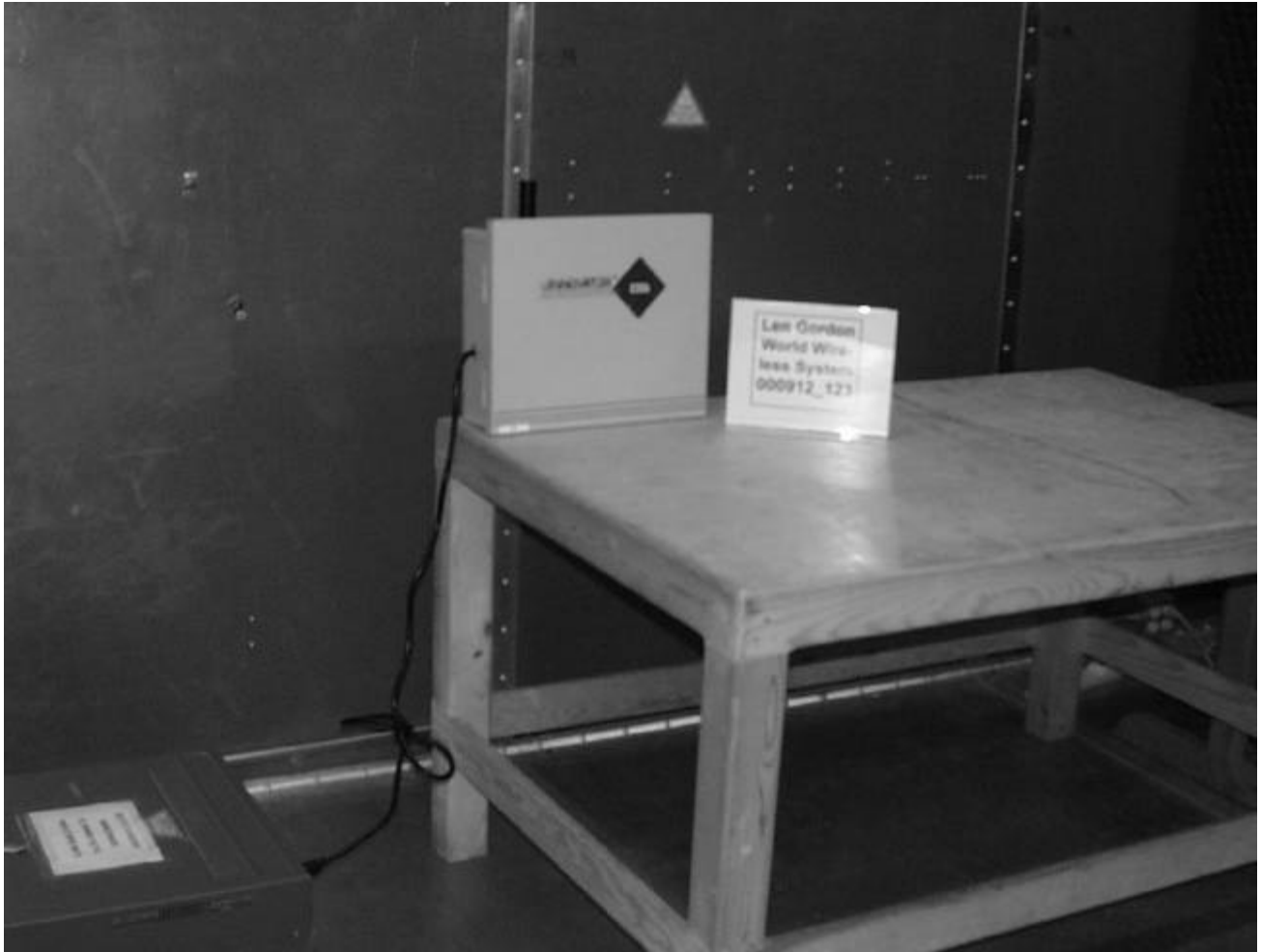
Minimum margin to limit: 2.87 dB at 916.5534 MHz

Exceeded limit by: dB at MHz

Remarks: Reference Section 4 for Data Sheets

Section 3 Test Setup Photographs

Part 3.1 Conducted Emissions Setup - Front View



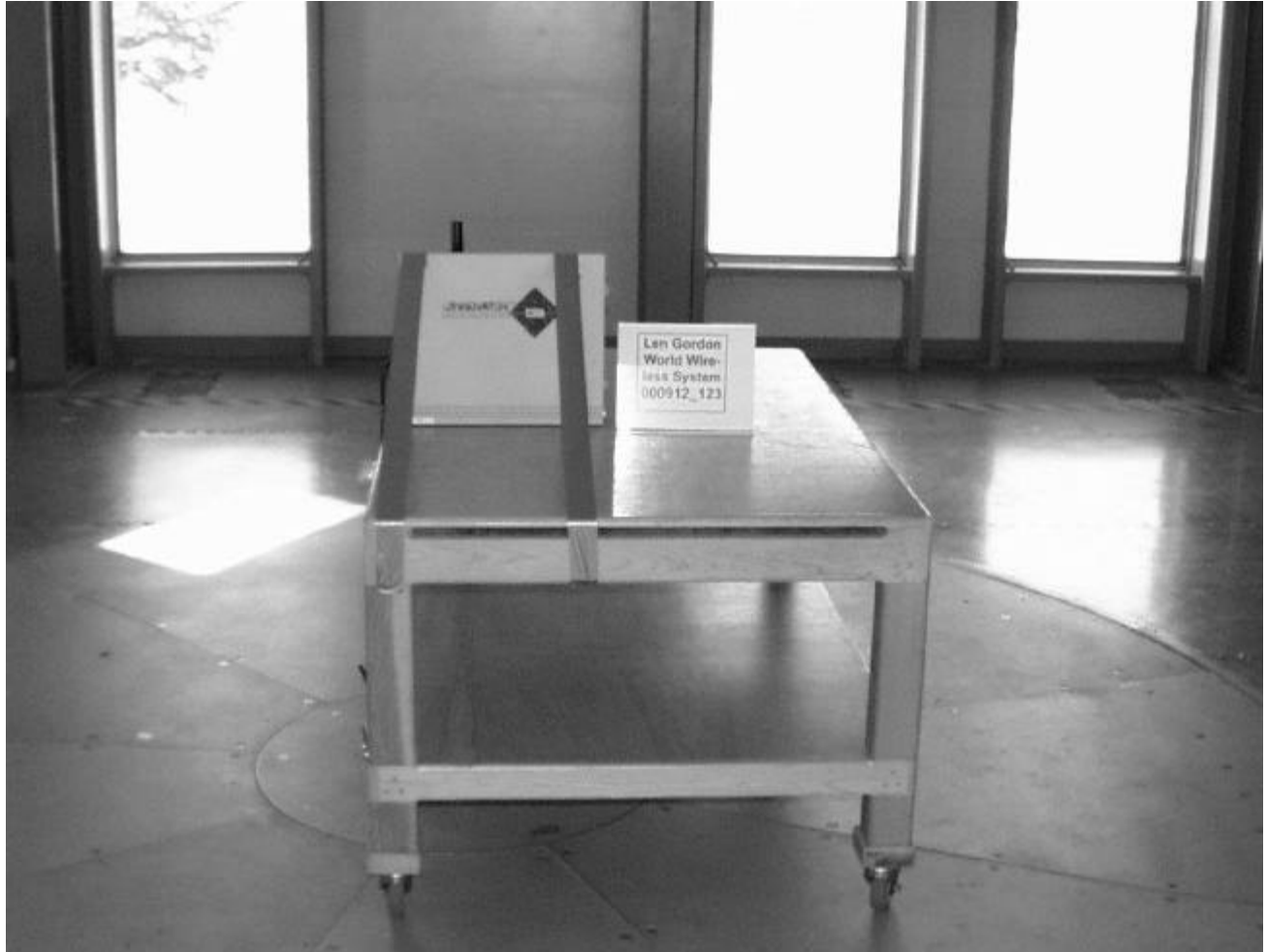
Part 3.2 Conducted Emissions Setup - Side View



Part 3.3 Radiated Emissions Setup - Front View



Part 3.4 Radiated Emissions Setup - Side View



Part 3.5 Radiated Emissions Setup - Rear View



Section 4 Original Test Data / Plots

Conducted Emissions
Radiated Emissions

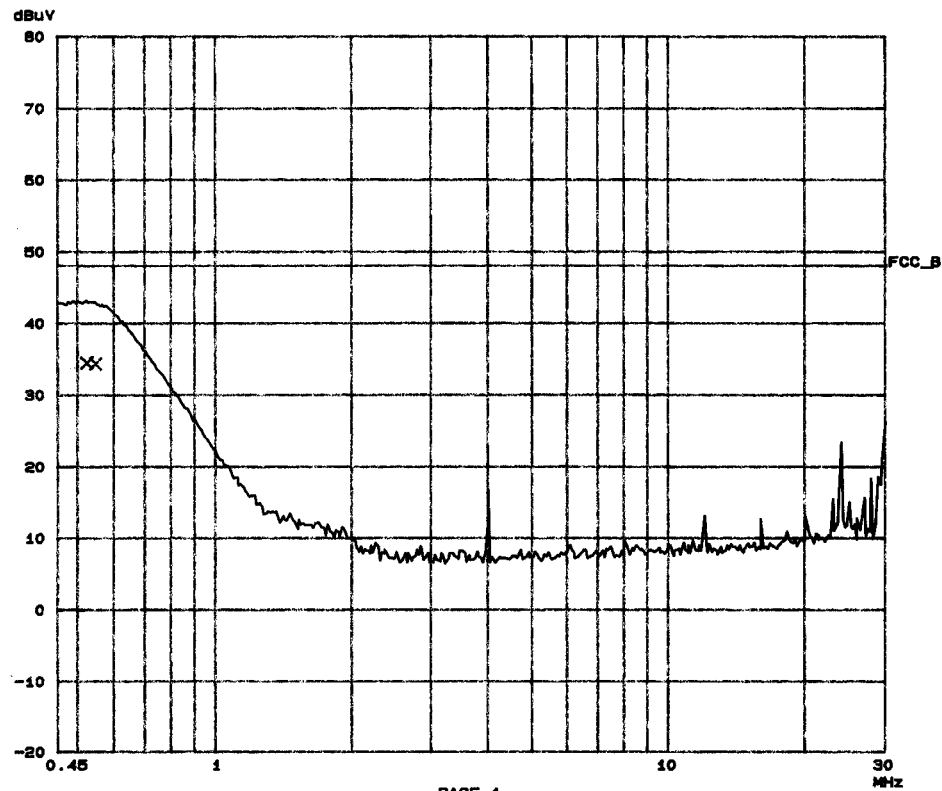
Part 4.1 FCC Conducted Emissions Plot

Criterion Shielded Chamber
ESHS30 Receiver, ESH2-Z5 LISN

26. Sep 00 10:55

EUT: World Wireless Lennovator, SN PreProd
Manuf: Len Gordon
Op Cond: Continuous XMT, Normal Operation
Operator: MEM per 000912_123
Test Spec: FCC 15.249 Class B per ANSI C83.4
Comment: 220V 60Hz, Line 1 on Prescan, Line 1 and Neutral on Final
EUT Located on Tabletop in Normal Orientation

Scan Settings (1 Range) ----- Receiver Settings -----
|----- Frequencies -----|
Start Stop Step IF BW Detector M-Time Atten Presamp OpRge
450k 30M 5k 10k PK 100ms AUTO LN OFF 60dB
Final Measurement: x GP Transducer No. Start Stop Name
Meas Time: 1 s 1 1 10k 30M 8R_33dB
Subranges: 25 5 30M LISN
Acc Margin: 6dB



Part 4.2 FCC Conducted Emissions Table

Criterion Shielded Chamber
 ESHS30 Receiver, ESH2-Z5 LISN

26. Sep 00 10:55

EUT: World Wireless Lenovator, SN PreProd
 Manuf: Len Gordon
 Op Cond: Continuous XMT, Normal Operation
 Operator: MEM per 000912_123
 Test Spec: FCC 15.249 Class B per ANSI C63.4
 Comment: 220V 60Hz, Line 1 on Prescan, Line 1 and Neutral on Final
 EUT Located on Tabletop in Normal Orientation

Scan Settings (1 Range)			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Presamp	OpRge
450k	30M	5k	10k	PK	100ms	AUTO	LN OFF	60dB

Final Measurement Results:

Indicated Phase/PE shows Configuration of max. Emission

Frequency MHz	QP Level dBuV	QP Limit dBuV	Phase -	PE -
0.52000	34.4	48.0	L1	gnd
0.54500	34.3	48.0	L1	gnd

* limit exceeded

Part 4.3 Radiated Emissions Data, 30 MHz to 1000 MHz**Notes:**

The third column below contains alpha characters which pertain to the type of measurements made. The following are the definitions for those characters: q = Quasi Peak, m = Maximized (cable, rotation and antenna height), s = scanned but no data taken, and a = average. For the first character in column four, a '-' indicates that value is below the limit while an '*' indicates that value is above the limit

If the list is sorted using "I-sort", then quasi-peak and average levels are weighted higher than peak levels and are moved to the front of the scan list.

The following keys help to better understand the data:

TT: Turntable position in degrees

Hght: Height of antenna in centimeters

Az: Azimuth, V = Vertical, H= Horizontal

Criterion Technology

Tue Sep 26 15:29:50 2000

EUT: Len Gordon Model: Leenovator, Serial: Pre-production

Manufacturer: Len Gordon Co.

Tester: WS

Special ID: 000912_123

EUT Level: Pre-production with transmit and receive antennas trimmed

EUT Information: EUT Oriented vertically on tabletop

Test information: Normal Operation, 10m, 220 V 60 Hz, FCC 15.249 Class B

Table 1: Scan List, sorted by margin to limit FCCB10, -20.0dB filter

<u>Freq, MHz</u>	<u>Value</u>	<u>Sts</u>	<u>FCCB10</u>	<u>TT</u>	<u>Hght</u>	<u>Az</u>	<u>Comment</u>
916.5902	80.57	m	45.01	3	219	V	.
915.0603	28.32	m	-7.24	322	124	V	nb
36.0007	15.05	m	-14.49	24	100	V	nb

Table 2: Scan List for FCCB10, sorted by Frequency, -20.0dB filter

<u>Freq, MHz</u>	<u>Value</u>	<u>Sts</u>	<u>FCCB10</u>	<u>TT</u>	<u>Hght</u>	<u>Az</u>	<u>Comment</u>
36.0007	15.05	m	-14.49	24	100	V	nb
915.0603	28.32	m	-7.24	322	124	V	nb
916.5902	80.57	m	45.01	3	219	V	.

Table 3: Complete Scan List Sorted by Frequency

<u>Freq, MHz</u>	<u>I-val</u>	<u>Final</u>	<u>Sts</u>	<u>TT</u>	<u>Hght</u>	<u>Az</u>	<u>Time</u>	<u>Comment</u>
36.0007	23.12	15.05	m	24	100	V	Tue Sep 19 12:59:50 2000	nb
250.1452	0.00	-200.00	s	0	0	b		nb

TEST REPORT

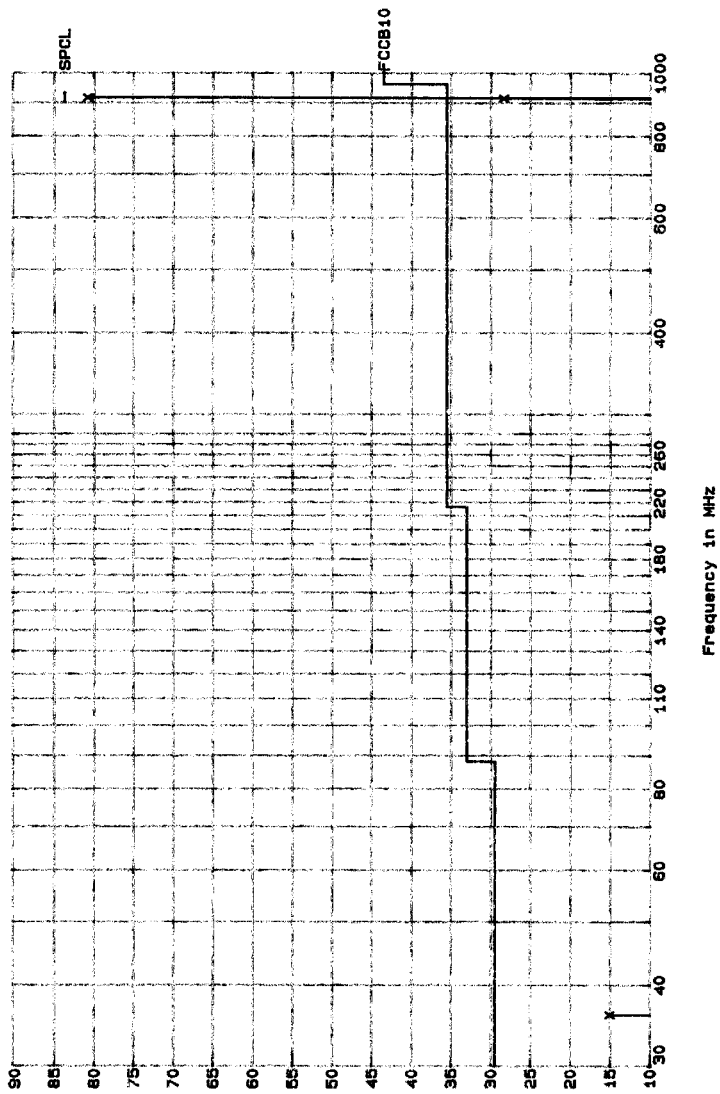
Table 3: Complete Scan List Sorted by Frequency

Freq, MHz	I-val	Final	Sts	TT	Hght	Az	Time	Comment
915.0603	26.18	28.32	m	322	124	V	Tue Sep 19 12:53:04 2000	nb

Part 4.4 Radiated Emissions Plot, 30 MHz to 1000 MHz

Criterion Technology Date: Fri Sep 22 15:19:14 2000
EUT: Len Gordon Model: Leenovator, Serial: Pre-production
Manufacturer: Len Gordon Co.
Tester: WS SPID: 000912_123
EUT Level: Pre-production with transmit and receive antennas trimmed
EUT Information: EUT Oriented vertically on tabletop
Test Information: Normal Operation, 10m, 220 V 60 Hz, FCC 15.249 Class B

Test Results (in dBuV/m)

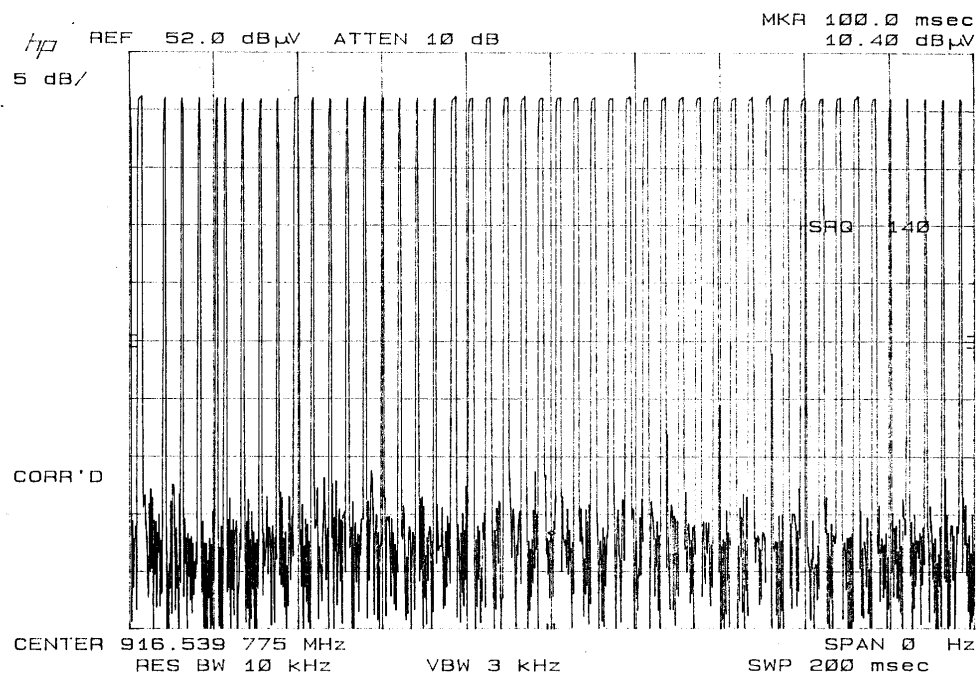
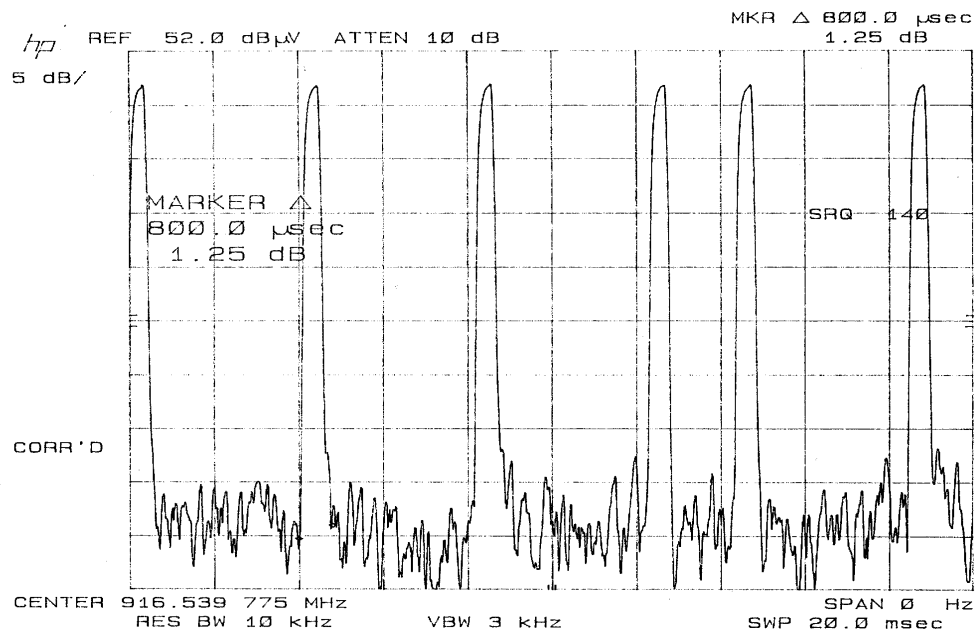


Part 4.5 Radiated Emissions Data, 1000 MHz to 10,000 MHz**Len Gordon****Lenovator Base Unit Transceiver****Serial: Preproduction Unit****Date: 9-19-00****Operator: MEM**

freq (MHz)	I Val dBuV	Factor dB/m	Fval dBuV/m	Avg dBuV/m	Spec dBuV/m	TT Deg	Hgt M	Pol V/H
916.5534	86.47	2.14	88.61	68.61	71.48	3	2.19	V
1833.166	75.55	-2.92	72.63	52.63	61.94	320	1.07	V
2749.752	63.9	1.2	65.1	45.1	53.98	170	1.27	V
3666.333	55.5	2.41	57.91	37.91	53.98	40	1.45	V
4582.852	51.85	4.65	56.5	36.5	53.98	81	1.12	V
5499.286	34.1	8.65	42.75	22.75	61.94	117	1.05	
6415.87	39.8	9.35	49.15	29.15	61.94			Noise Floor
7332.41	39.4	12.74	52.14	32.14	53.98			Noise Floor
8248.953	39.55	12.32	51.87	31.87	53.98			Noise Floor
9165.496	35.7	14.84	50.54	30.54	53.98			Noise Floor

*All Spec. Limits based on 3 meter distance from EUT except for the fundamental at 916.5534 MHz. The fundamental was measured at a distance of 10 meters and the specification limit was adjusted accordingly.

Part 4.6 Transmitted Pulse Characteristics



Duty Cycle Calculation:

Total Number of Pulses in 100 mSec. Window = 24

Pulse Width = 400 uSec (measured at half voltage points)

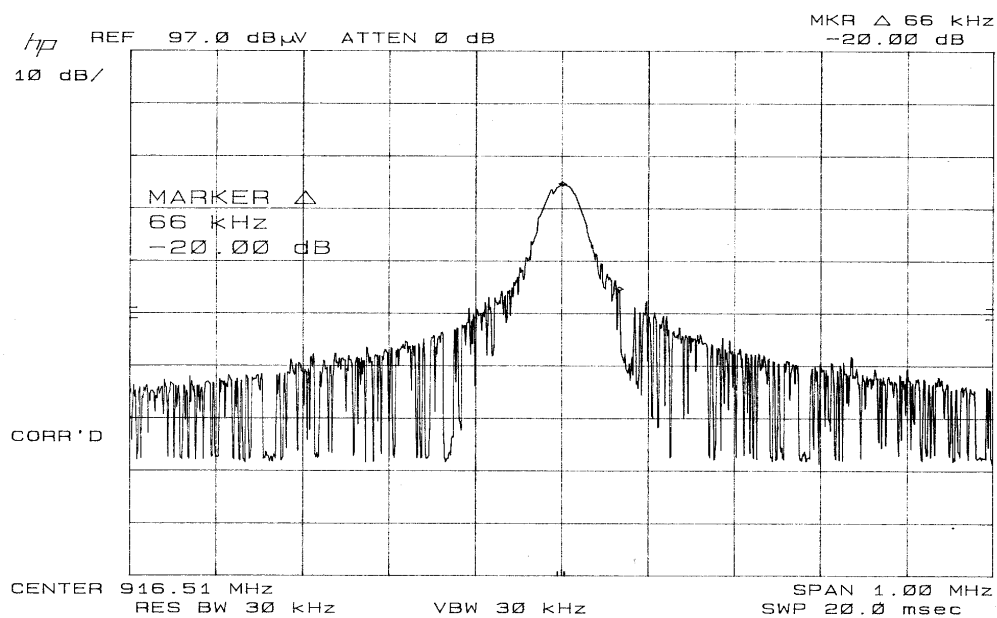
Pulse Train Duration (including blanking intervals) > 100 mSec

$$\text{Duty Cycle} = \frac{24 * 0.4}{100} = 0.096 = 9.6\%$$

$$\text{Average Power Correction Factor} = 20 * \text{Log} (0.096) = - 20.35 \text{ dB}$$

maximum correction allowed = -20 dB

Part 4.7 Occupied Bandwidth



Bandwidth at 20 dB points: $2 \times 66 \text{ kHz} = 132 \text{ kHz}$

Maximum bandwidth allowed above 900 MHz = 0.5% of Fundamental Frequency: $0.005 \times 916.5 \text{ MHz} = 4.5825 \text{ MHz}$

EUT meets bandwidth requirements

Section 5 Equipment Calibration Information

Criterion Technology Equipment Calibration List: Last Updated 9/6/00

Manufacturer	Name/Description	Model Number	Serial Number	Cal. Due
Abbeon	Thermometer & Hygrometer	HTAB169B	001	12-23-00
Antenna Research Associates	1-18 GHz Horn	DRG118/A	1056	Verify
Antenna Research Associates	1-18 GHz Horn	DRG118/A	1057	4-29-01
Chase	Bilog 30 - 1000 MHz	CB6111	1121	5-16-01
Dickson	Temperature/ RH Recorder	THDX	5300245	2-19-01
Digitech	Digital Thermometer	5810	93712063	12-27-00
Doric	Digital Thermometer & Recorder	205	21594	12-22-00
EMCO	Active Loop	6502	2626	In Calibration
EMCO	BiConnical 30-200 MHz	3108	2343	5-15-01
EMCO	Dipole	3121C	722	Verify
EMCO	Log Periodic 200 - 1000 MHz	3146	2763	5-16-01
EMCO	Log Periodic 200 - 1000 MHz	3146	3096	5-16-01
FCC	Current Probe	F-33-2	None	9-28-00
Fluke	Digital Multimeter	87	60800598	12-17-00
Hewlett Packard	Preselector	HP 9445B		3-27-01
Hewlett Packard	Tracking Generator	HP85645A	3210A00124	6-13-01
Hewlett Packard	Quasi Peak Adapter	HP 85650A	2521A00733	7-6-01
Hewlett Packard	Spectrum Analyzer	HP 8566B	2403A07322	7-6-01
Hewlett Packard	Spectrum Analyzer	HP 8566B	2421A00527	7-6-01
Hewlett Packard	Spectrum Analyzer	HP 8591A	2919A00220	1-24-01
Le Croy	Digital Storage Oscilloscope	9450	2141	4-20-01
Microwave Instrumentation Technologies	18-26.5 GHz Horn	12A-18	115300	10-12-00
Mini Circuits	Preamp (AMP2)			5-16-01
Rohde/Schwarz	HF Receiver	ESHS-30	82600/011	8-30-01
Rohde/Schwarz	LISN	ESH2-Z5	828739-001	8-29-01
Rohde/Schwarz	VHF/UHF Receiver	ESVS-30	8634221014	5-25-01
Solar	50 uH LISN	8612-50-TS-100N	967621	In Calibration
Solar	50 uH LISN	8612-50-TS-100N	967622	In Calibration
Tektronix	Oscilloscope	2467B	B051203	12-20-00

Veratech	Preamp (AMP3)			2-9-01
Amplifier Research	Coupler	DC6080	19529	5-3-01
Amplifier Research	E-Field Probe	FP2000	19682	1-27-01
Amplifier Research	E-Field Probe	FP2080	20236	1-26-01
Amplifier Research	Power Amplifier	150A100A	20183	5-3-01
Amplifier Research	Power Amplifier	100W1000M1	20214	5-4-01
Amplifier Research	Power Amplifier	10S1G4	20155	5-4-01
Andrews Helix Cable	F2-50 Low Loss Coax	F2-50	N/A	5-4-01
EMCO	BiConnical 30-200 MHz	3108	2441	5-15-01
EMCO	Horn	3115	4003	Verif.
FCC	CDN	FCC-801-M3-25	9714	10-16-00
FCC	Current Probe	F-33-1	None	9-27-00
FCC	EM Clamp	F2031	309	3-17-01
Fluke	Digital Multimeter	87	66320753	12-17-00
Fluke	Digital Multimeter	87	68630334	12-17-00
Gigatronics	Power Meter	8541C	1830945	11-8-00
Gigatronics	Power Sensor	80301A-410	1831996	10-30-00
Haefely Trench	Coupling Network	IP6.2	083 957-02	9-18-01
Haefely Trench	De-coupling Network	DEC1A	080057-09	9-18-01
Haefely Trench	Dip Generator	PLINE1610	083 970-07	10-25-00
Haefely Trench	EFT Coupling Clamp	IP4A	080-011-06	9-18-01
Haefely Trench	EFT Tester	PEFT Junior	583-333-51	9-18-01
Haefely Trench	ESD Gun	PESD 1600	H605100	In Calibration
Haefely Trench	Impulse Module	PHV 30.2	083991-06	9-18-01
Haefely Trench	Power Supply	PHF555	080-419-05	2-28-01
Haefely Trench	Surge Generator	PSURGE 6.1	083 906-07	9-18-01
Haefely Trench	Surge Network	FP-SURGE 32.1	083925-05	9-18-01
Hewlett Packard	Pulse Generator	HP 8116A	2901G09493	In Calibration
Hewlett Packard	Signal Generator	HP 8648D	3642000145	4-6-01
Hewlett Packard	Spectrum Analyzer	HP 8594E	3412A01039	In Calibration
Lehman Chambers	Semi Anechoic Chamber	N/A	N/A	10-5-00
Tegam	Current Probe	925236-1	12588	9-27-00
Tegam	Current Probe Cal Fixture	95241-1	12634	9-27-00

Section 6 Product Information Forms

Note: If there are any questions regarding the information required in these forms or if you are in doubt about what tests are required for your product, please contact us either by phone or email.

CRITERION TECHNOLOGY PRODUCT INFORMATION FORM

General Information

Date 9-12-00Company Name: Len Gordon Co.Company Address: 7215 Bermuda Road
Las Vegas, NV 89119

Contacts:

Compliance Engineer: Dan Roberts Phone: (702) 361-0600 Email: _____

Design Engineer: _____ Phone: _____ Email: _____

Test Description

De-Bug _____ Formal (Initial) X _____ Formal (Re-Verification) _____

Market Information (Check all that Apply)

USA X Canada _____ Euro. Union _____ Taiwan _____ Japan _____ New Zealand _____ Australia _____

Other _____

Product Information

Name Lenovator Base Unit Model Number _____ Serial Number Pre-ProductionProduct Dimensions: 5.1 x 16.5 x 13.8 inches Weight: _____

Product Power Source:

Battery

Type _____

AC Supply

Input Voltage Range(s) _____

Phases 1 Delta _____ Wye _____Current UnknownFrequency 60 HzManufacturer Len Gordon Co.

Model Number _____

Topology

Linear X Switching Mode _____ Switching Frequency _____

Support Equipment (if used):

CPU:

Manufacturer _____

Model No. _____

Serial No. _____

Monitor:

Manufacturer _____

Model No. _____

Serial No. _____

Keyboard:

Manufacturer _____
 Model No. _____
 Serial No. _____

Mouse:

Manufacturer _____
 Model No. _____
 Serial No. _____

I/O Cables – Manufacturer, P/N, Length :

Serial Port _____
 Parallel Port _____
 SCSI Port _____
 Other _____

Operation Software:

Name _____ Version Number _____

Operating Modes: (Please Include Cycle Time)

Normal Operation _____

Operation Pass/Fail Criteria:

Test Type – Emissions (Please check all that apply):

Information Technology Equipment

Class A _____
 Class B _____
 Oscillator/Clock Frequencies (MHz) _____

Industrial, Scientific, Medical Equipment

Class A _____
 Class B _____
 Oscillator/Clock Frequencies (MHz) _____

Unintentional Radiator

Class A _____
 Class B X _____
 Oscillator/Clock Frequencies (MHz) 4.0 MHz

Receiver

Type (Regen., Superhet., Direct Conv., Homodyne) Superhet
 Local Oscillator Frequencies 915 MHz
 Frequency Range 916.5 MHz

Intentional Radiator

Fundamental Frequency Range 916.5 MHz
 Local Oscillator Frequencies 916.5 MHz
 Power Output (to antenna) 10 milliwatts
 Integral Antenna (Yes/No) Yes

TEST REPORT

Modulation Type (AM, CM, Pulse, Spread Spectrum) Pulse
Control Circuits (Microprocessor/Micro-controller) Microcontroller
Oscillator/Clock Frequencies (MHz) 4.0 MHz