

PCTEST Engineering Laboratory, Inc.



6660-B Dobbin Road · Columbia, MD 21045 · U.S.A.
TEL (410) 290-6652 · FAX (410) 290-6654
http://www.pctestlab.com

CERTIFICATE OF COMPLIANCE FCC Part 90 Certification

Motorola Inc. 1301 East Algonquin, Room 1726 Schaumburg, IL 60196 Dates of Tests: March 6-10, 2006 Test Report S/N: 0603010131-R1 Test Site: PCTEST Lab, MD U.S.A.

FCC ID: ABZ89FT7616

APPLICANT: MOTOROLA INC.

FCC Classification: Licensed Non-Broadcast Station Transmitter (TNB)

FCC Rule Part(s): § 90

EUT Type: Motorola Broadband Wireless Router for ML900 Series Notebook

Model(s): ML900

Tx/Rx Frequency Range: 4950 - 4965 MHz

Max. RF Output Power: 0.397 W ERP (24.983 dBm) with 12.1 LCD/

0.388 W ERP (25.883 dBm) with 13.3 LCD/

0.404 W Conducted

Frequency Tolerance: 2.5 ppm Emission Designator: 17M2F1D

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947 and RSS-119. If the EUT contains any additional embedded transmitters, then those transmitter were active during all tests.

The Motorola MESH Modem Module is electrically identical to previously authorized FCC ID: QJEWMC73000705. RF conducted data is shown in that test report, included in this application.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and youch for the qualifications of all persons taking them.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.





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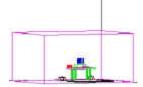
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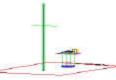
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MEASUREMENT REPORT





1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

General Information

Applicant Name: Motorola Inc.

Address: 1301 East Algonquin, Room 1726

Schaumburg, IL 60196

• FCC ID: ABZ89FT7616

Model(s): ML900

Quantity: Quantity production is planned

• Emission Designator: 17M2F1D

Tx/Rx Freq. Range: 4950 - 4965 MHz

• Equipment Class: Licensed Non-Broadcast Station Transmitter (TNB)

Equipment Type: Motorola Broadband Wireless Router for ML900 Series

Notebook

Modulation: QDMA

• Frequency Tolerance: ± 2.5 ppm

• Max. Power: 0.397 W ERP (25.983 dBm) with 12.1 LCD/

0.388 W ERP (25.883 dBm) with 13.3 LCD/

0.404 W Conducted

• FCC Rule Part(s): § 90

Power Supply: 3.8V (3.4 to 4.2V range)

Dates of Tests: March 6-10, 2006

Place of Tests:
 PCTEST Lab, Columbia, MD U.S.A.

Test Report S/N: 0603010131-R1

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2.1 INTRODUCTION

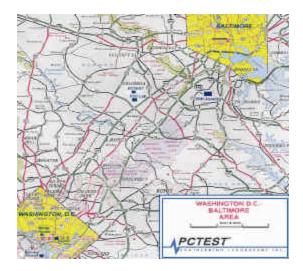


Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

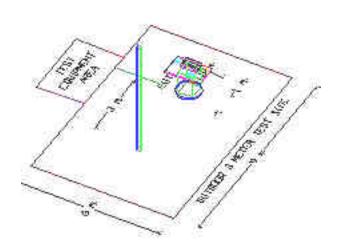


Figure 2. 3-meter outdoor test site

These measurement tests were conducted at *PCTEST Engineering Laboratory, Inc.* facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.

Measurement Procedure

The radiated and spurious measurements were made outdoors at a 3-meter test range (see Figure2). The equipment under testing was placed on a wooden turntable, 3-meters from the receive antenna. The receive antenna height and turntable rotations was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This level was recorded.

For readings above 1 GHZ, the above procedure would be repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

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3.1 INSERTS

Block Diagram(s) & Circuit Diagram(s)

The block diagram is shown in Attachment I, and the circuit diagram is shown in Attachment J.

Operating Instructions

The instruction manual is shown in Attachment K.

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4.1 DESCRIPTION OF TESTS

4.2 Radiation Spurious and Harmonic Emissions

Radiation and harmonic emissions above 1 GHz is measured at out 3-meter indoor site. The EUT is placed on the turntable connected to a dummy load in normal operation using the intended power source. A receiving antenna located 3 meters from the turntable receives any signal radiated from the transmitter and its operating accessories. The antenna is varied from 1 to 4 meters and the polarization is varied (horizontal and vertical) to determine the worst-case emission level. To obtain actual radiated signal strength, a signal generator is adjusted in output until a reading identical to that obtained with the actual transmitter is obtained at the receiver. Signal strength is read directly from the generator and recorded on the attached table.

4.3 Frequencies

At the input terminals of the spectrum analyzer, an isolator (RF pad) and an high-pass filter are connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The high-pass filter (signals below 1.6 GHz) is to limit the fundamental frequency from interfering with the measurement of low-level spurious and harmonic emissions and to ensure that the preamplifier is not saturated.

4.4 Radiation Spurious and Harmonic Emissions

Radiation and harmonic emissions are measured outdoors at our 3meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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5.0 Frequency Stability/Temperature Variation.

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +60°C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ± 0.00025 (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

- 1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (22°C to 25°C to provide a reference).
- 2. The equipment is subjected to an overnight "soak" at -30°C without any power applied.
- 3. After the overnight "soak" at -30°C (usually 14-16 hours), the equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
- 4. Frequency measurements are made at 10°C interval up to room temperature. At least a period of one and one half-hour is provided to allow stabilization of the equipment at each temperature level.
- 5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
- 6. Frequency measurements are at 10 intervals starting at -30°C up to +50°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after re-applying power to the transmitter.
- 7. The artificial load is mounted external to the temperature chamber.

NOTE: The EUT is tested down to the battery endpoint.

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5.1 Test Data w/ 12.1 LCD

5.2 Output Power

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
4950.00	-23.000	Н	0.397	25.983	Standard
4955.00	-23.300	Н	0.374	25.733	Standard
4960.00	-24.000	Н	0.325	25.123	Standard
4965.00	-23.900	Н	0.337	25.273	Standard

Note: Standard batteries are the only options for this phone

NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

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5.1 Test Data w/ 13.3 LCD

5.3 Output Power

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
4950.00	-23.100	Н	0.388	25.883	Standard
4955.00	-23.200	Н	0.383	25.833	Standard
4960.00	-23.500	Н	0.365	25.623	Standard
4965.00	-23.700	Н	0.353	25.473	Standard

Note: Standard batteries are the only options for this phone

NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

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6.2 Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 4950.00 MHz

CHANNEL: (Low)

MEASURED OUTPUT POWER: $\underline{25.983}$ dBm = $\underline{0.397}$ W

MODULATION SIGNAL: FM (Internal)

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 38.98$ dBc

FREQ.	LEVEL @ ANTENNA	SUBSTITUTE ANTENNA	CORRECT GENERATOR	POL	
(MHz)	TERMINALS (dBm)	GAIN (dBd)	LEVEL (dBm)	(H/V)	(dBc)
9900.00	-75.63	6.10	-69.53	Н	95.5
14850.00	-93.28	6.70	-86.58	Н	112.6

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

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6.3 Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 4955.00 MHz

CHANNEL: (Mid)

MEASURED OUTPUT POWER: 25.983 dBm = 0.397 W

MODULATION SIGNAL: FM (Internal)

DISTANCE: _____ meters

LIMIT: $43 + 10 \log_{10} (W) = 38.98$ dBc

FREQ.	LEVEL @ ANTENNA	SUBSTITUTE ANTENNA	CORRECT GENERATOR	POL	
(MHz)	TERMINALS (dBm)	GAIN (dBd)	LEVEL (dBm)	(H/V)	(dBc)
9910.00	-75.98	6.10	-69.88	Н	95.9
14865.00	-93.08	6.70	-86.38	Н	112.4

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

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6.4 Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 4960.00 MHz

CHANNEL: (Mid)

MEASURED OUTPUT POWER: 25.983 dBm = 0.397 W

MODULATION SIGNAL: FM (Internal)

DISTANCE: _____ meters

LIMIT: $43 + 10 \log_{10} (W) = 38.98$ dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
9920.00	-78.38	6.10	-72.28	Н	98.3
14880.00	-92.78	6.70	-86.08	Н	112.1

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

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6.5 Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 4965.00 MHz

CHANNEL: (High)

MEASURED OUTPUT POWER: 25.983 dBm = 0.397 W

MODULATION SIGNAL: FM (Internal)

DISTANCE: _____ meters

LIMIT: $43 + 10 \log_{10} (W) = 38.98$ dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
9930.00	-79.48	6.10	-73.38	Н	99.4
14895.00	-92.78	6.70	-86.08	Н	112.1

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

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6.6 Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 4950.00 MHz

CHANNEL: (Low)

MEASURED OUTPUT POWER: $\underline{25.883}$ dBm = $\underline{0.388}$ W

MODULATION SIGNAL: FM (Internal)

DISTANCE: _____ meters

LIMIT: $43 + 10 \log_{10} (W) = 38.88$ dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
9900.00	-75.63	6.10	-69.53	Н	95.4
14850.00	-93.28	6.70	-86.58	Н	112.5

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

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6.7 Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 4955.00 MHz

CHANNEL: (Mid)

MEASURED OUTPUT POWER: 25.883 dBm = 0.388 W

MODULATION SIGNAL: FM (Internal)

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 38.88$ dBc

FREQ.	LEVEL @ ANTENNA	SUBSTITUTE ANTENNA	CORRECT GENERATOR	POL	
(MHz)	TERMINALS (dBm)	GAIN (dBd)	LEVEL (dBm)	(H/V)	(dBc)
9910.00	-75.98	6.10	-69.88	Н	95.8
14865.00	-93.08	6.70	-86.38	Н	112.3

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

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6.8 Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 4960.00 MHz

CHANNEL: (Mid)

MEASURED OUTPUT POWER: 25.883 dBm = 0.388 W

MODULATION SIGNAL: FM (Internal)

DISTANCE: _____ meters

LIMIT: $43 + 10 \log_{10} (W) = 38.88$ dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
9920.00	-78.38	6.10	-72.28	Н	98.2
14880.00	-92.78	6.70	-86.08	Н	112.0

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

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6.9 Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 4965.00 MHz CHANNEL: (High) 25.883

MEASURED OUTPUT POWER: dBm 0.388 W

MODULATION SIGNAL: FM (Internal)

DISTANCE:

LIMIT: $43 + 10 \log_{10} (W) =$ 38.88 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (HV)	(dBc)
9930.00	-79.48	6.10	-73.38	Н	99.3
14895.00	-92.78	6.70	-86.08	Н	112.0

NOTES:

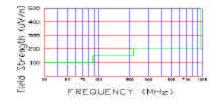
Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

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Radiated Spurious Measurements

Freq. (MHz)	Level (dBm)	AFCL (dB)	POL (H/V)	Height (m)	Azimuth (°angle)	F/S (uV/m)	Margin (dB)
166.64	-84.89	14.70	Н	2.7	180	69.23	-6.7
300.00	-89.39	20.60	V	1.4	225	81.33	-7.8
400.5	-92.31	23.71	Н	1.3	200	83.23	-7.6
433.3	-92.89	24.50	V	1.2	135	85.16	-7.4
466.7	-94.50	25.30	V	1.1	180	77.67	-8.2
702.5	-97.83	29.94	Н	1.0	190	90.21	-6.9

Table A-1. Radiated Measurements at 3-meters



NOTES:

- 1. All modes of operation were investigated and the worst-case emissions are reported.
- 2. The radiated limits are shown on Figure A-1. Above 1 GHz the limit is $500\mu V/m$.

Figure A-1. Limits at 3 meters

- ¹ All readings are calibrated by HP8640B signal generator with accuracy traceable to the National Institute of Standards and Technology (NIST).
- ² AFCL = Antenna Factor (Roberts dipole) and Cable Loss (30 ft. RG58C/U).
- Measurements using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used with a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.

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6.1 Test Data

6.2 Part 90 FREQUENCY STABILITY

OPERATING FREQUENCY: 4,955 Hz

CHANNEL: (Mid)

REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

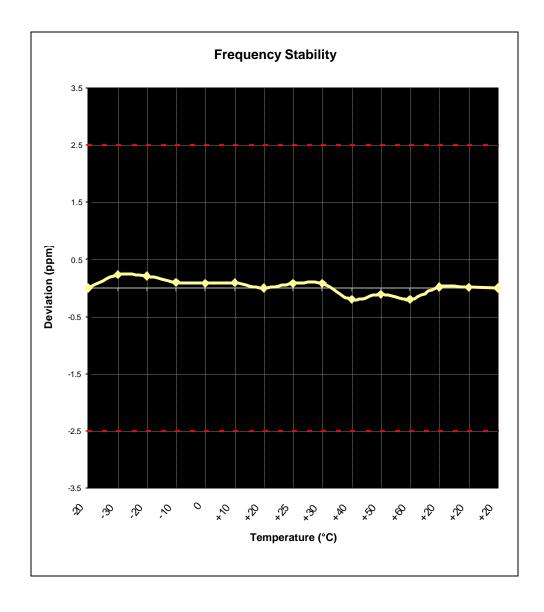
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Freq. Dev.	Deviation (%)
100 %	3.70	+ 20 (Ref)	4955.0000	0.0000	0.000000
100 %		- 30	4954.9989	0.0011	0.000023
100 %		- 20	4954.9990	0.0010	0.000021
100 %		- 10	4954.9995	0.0005	0.000010
100 %		0	4954.9996	0.0004	0.000008
100 %		+ 10	4954.9996	0.0004	0.000009
100 %		+ 20	4955.0000	0.0000	0.000000
100 %		+ 25	4954.9996	0.0004	0.000008
100 %		+ 30	4954.9996	0.0004	0.000008
100 %		+ 40	4955.0010	-0.0010	-0.000020
100 %		+ 50	4955.0005	-0.0005	-0.000011
100 %		+ 60	4955.0010	-0.0010	-0.000020
85 %	4.25	+ 20	4954.9999	0.0001	0.000002
115 %	5.75	+ 20	4955.0000	0.0000	0.000001
BATT. ENDPOINT	3.50	+ 20	4955.0000	0.0000	0.000000

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6.1 Test Data (Continued)

6.3 Part 90 FREQUENCY STABILITY



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7.1 PLOT(S) OF EMISSIONS

(SEE ATTACHMENT D)

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8.1 TEST EQUIPMENT

	8.2 Type	Model	Cal. Due Date	S/N
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Microwave Spectrum Analyzer HP8566B (100Hz-22GHz) 08/15/06 3638A08713 Microwave Spectrum Analyzer HP 8566B (100Hz-22GHz) *04/17/06 2542A11898*

Spectrum Analyzer/Tracking Gen. HP 8591A (100Hz-1.8GHz) 08/10/06 3144A02458

Signal Generator* HP8640B (500Hz-1GHz) 06/03/06 2232A19558 Signal Generator* HP 8640B (500Hz-1GHz) 06/03/06 1851A09816

Signal Generator* Rohde & Schwarz (0.1-1000MHz) 09/11/06 894215/012 Ailtech/Eaton Receiver NM 37/57A-SL (30-1000MHz) 04/12/06 0792-03271 Ailtech/Faton Receiver NM 37/57A (30-1000MHz) 03/11/06 0805-03334

Ailtech/Eaton Receiver *NM 17/27A (0.1-32MHz)* 09/17/06 0608-03241

Quasi-Peak Adapter HP85650A 08/15/06 2043A00301

Ailtech/Eaton Adapter CCA-7 CISPR/ANSI QP Adapter 03/11/06 0194-04082

RG58 Coax Test Cable No. 167 n/a

Harmonic/Flicker Test System HP 6841A (IEC 555-2/3) 3531A00115

Broadband Amplifier (2) HP8447D 1145A00470,1937A03348

Broadband Amplifier HP8447F 2443A03784

Transient Limiter HP11947A (9kHz-200MHz) 2820A00300 Hom Antenna EMCO Model 3115 (1-18GHz) 9704-5182 Hom Antenna 9205-3874 EMCO Model 3115 (1-18GHz) Hom Antenna EMCO Model 3116 (18-40GHz) 9203-2178

Biconical Antenna (4) Eaton 94455/Eaton 94455-1/Singer 94455-1/Compliance Design 1295, 1332, O355 Ailtech/Faton 93490-1 Log-Spiral Antenna (3) 0608, 1103, 1104

Roberts Dipoles Compliance Design (1 set)

Ailtech Dipoles DM-105A (1 set) 33448-111 **EMCOLISN** 3816/2 1079 **FMCOLISN** 3816/2 1077 **EMCOLISN** 3725/2 2009 3123A00181

Microwave Preamplifier 40dB Gain HP 83017A (0.5-26.5GHz)

Microwave Cables MicroCoax (1.0-26.5GHz)

Ailtech/Eaton Receiver NM37/57A-SL 0792-03271 Spectrum Analyzer HP8594A 3051A00187

Spectrum Analyzer (2) HP 8591A 3034A01395, 3108A02053

Modulation Analyzer HP8901A 2432A03467 NTSC Pattern Generator Leader 408 0377433 Noise Figure Meter HP8970B 3106A02189 Noise Figure Meter Ailtech 7510 TE31700 1473 Noise Generator Ailtech 7010 Microwave Survey Meter Holaday Model 1501 (2.450GHz) 80931

Digital Thermometer 426966 Extech Instruments 421305

Attenuator HP8495A (O-70dB) DC-4GHz

Bi-Directional Coax Coupler Narda 3020A (50-1000MHz)

RF Lindgren Model 26-2/2-0 6710 (PCT270) Shielded Screen Room

Shielded Semi-Anechoic Chamber Ray Proof Model S81 R2437 (PCT278) Enviromental Chamber Associated Systems Model 1025 (Temperature/Humidity) PCT285 st Calibration traceable to the National Institute of Standards and Technology (NIST).

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9.1 SAMPLE CALCULATIONS

Occupied Bandwidth

The audio signal generator is adjusted to 1kHz. The output level is increased until deviation limiting takes place. With the level constant, the freq. is set to 2,500Hz. Then the audio signal level is increased by 16dB.

The limits are specified in Section 2.1049.

Bandwidth Calculations (2M + 2D):

2(3.0) + 2 (5.0) 6 + 10.0 = 16.0 kHz

Emission Designator = 16K0F1D

M = maximum modulation frequency

D = maximum deviation from modulating limiting plot

Bandwidth Calculations (2M + 2D):

2(3.0) + 2 (2.5) 6 + 5.0 = 11.0 kHz

Emission Designator = 11K0F1D

M = maximum modulation frequency

D = maximum deviation from modulating limiting plot

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10.1 CONCLUSION

The data collected shows that the **Motorola Broadband Wireless Router for ML900 Series Notebook** complies with all the requirements of Part 90 of the FCC rules and RSS-119 of the Industry Canada rules.

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