



AEGIS LABS INC.



Class II Permissive Change
Test Report
And Application for Grant of Equipment Authorization

Pertaining To:

EUT	FCC ID:
Intel PRO/Wireless 2200BG Network Connection, MN: WM3B2200BG	PD9WM3B2200BG

Configuration
802.11b / 802.11g With a set of Phycomp/Yageo Corporation Antennas

MEASUREMENTS PERFORMED IN ACCORDANCE WITH

Regulatory Standard(s)
47 CFR Part 15, Subpart C Section 15.247 Test Method: ANSI C63.4: 1992 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

APPLICANT:

Intel Corporation
EC2-02 13280 Evening Creek Drive
San Diego, California 92128

Contact(s): Mr. James K. Baer

PREPARED BY:

Aegis Labs, Inc.
22431 Antonio Parkway B160-417
Rancho S. Margarita, CA 92688

Agent(s): Mr. Steve Kuiper
Mr. Rick Candelas

	REPORT BODY	APPENDICES	TOTAL PAGES
		<i>A</i>	
PAGES	16	27	43

Test Report #: INTEL-040211F
Test Report Revision: None

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FCC ID: PD9WM3B2200BG



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APPENDICES

A	Test Data
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1.0 CERTIFICATION OF TEST DATA

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 are furnished through the use of part-time, full-time or consulting engineers with the appropriate qualifications to carry out their duties. The intended purpose of this test report is to describe the measurement procedure and to determine whether the equipment under test "EUT" complies with both the conducted and radiated limits. Limits for emissions testing are described under Subpart C of Part 15 of the FCC rules.

The data, data evaluation and equipment configuration represented herein are a true and accurate representation of the Equipment Under Test (EUT) under the requirements specified in the emissions standard as described below. The test results contained in this report are only representative of the test sample tested as described in Section 3.0 of this report. Certification of the EUT is required as a prerequisite to marketing as defined in Part 2 of the FCC Rules.

Prepared By:

02/19/04

**Rick Candelas
Staff Engineer
Aegis Labs, Inc.**

Date:

Report Approved By:

02/19/04

**Steve J. Kuiper
Quality Assurance Manager
Aegis Labs, Inc.**

Date:

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2.0 SUMMARY OF TEST RESULTS

The test results provided within this report, indicate that the EUT has been found to be in **COMPLIANCE** with the test specifications based upon the following RF compliance standards:

Pass/Fail determination is based upon the nominal values of the test data.

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.247(a)(2)	The minimum 6dB bandwidth shall be at least 500 kHz.	PASSED	See Data Sheets
15.247(b)(1)	The maximum peak output power of the intentional radiator shall not exceed 1 watt.	PASSED	See Data Sheets
15.247(b)(4)	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 MPE Calculations Exhibit
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	See Data Sheets
15.207	AC Conducted Emissions	PASSED	See Data Sheets
15.209	Radiated Emissions (30-1000 MHz)	PASSED	See Data Sheets

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3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

DEVICE TESTED:	ITE Type: Intel PRO/Wireless 2200BG Network Connection Model Number(s): WM3B2200BG Serial Number: 013E24523ADC54906006 FCC ID: PD9WM3B2200BG
TEST DATE(S):	February 11 – 13, 2004
DATE EUT RECEIVED:	February 11, 2004
ORIGIN OF TEST SAMPLE(S):	Production Unit
RESPONSIBLE PARTY:	Intel Corporation EC2-02 13280 Evening Creek Drive San Diego, California 92128
CLIENT CONTACT:	Mr. James K. Baer
MANUFACTURER:	Intel Corporation
TEST LOCATION:	Aegis Labs, Inc. 32231 Trabuco Creek Road Trabuco Canyon, CA 92678 Conducted Site #2 Radiated Site #2
A2LA CERTIFICATE:	1111.01, Valid through February 28, 2004
PURPOSE OF TEST:	To demonstrate compliance with the relevant standards described in Section 2.0 of this report.
TEST(S) PERFORMED:	Refer to Table in Section 2.0 of this report.

All calibration vendors were responsible for certifying Aegis Labs, Inc. test equipment as per the manufacturer's specifications and that the equipment is calibrated using instruments and standards where the accuracy is traceable to the National Institute of Standards and Technology (NIST). Calibration of all test equipment conforms to ANSI/NCSL Z540-1 and ISO 10012-1 and/or ISO/IEC Guide 17025 compliance (Additionally, other pertinent test equipment will carry MIL-STD-45662A). All calibration documents are on file with Aegis Labs, Inc., with copies provided upon request.

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4.0 DESCRIPTION OF EUT

4.1 EUT Description

Equipment Under Test (EUT)	
Trade Name:	Intel PRO/Wireless 2200BG Network Connection
Model Number:	WM3B2200BG
Frequency Range:	2.412 – 2.462 GHz
Type of Transmission:	Direct Sequence Spread Spectrum
Transfer Rate:	1/2/5.5/11 Mbps for 802.11b mode 6/36/54 Mbps for 802.11g mode
Number of Channels:	11
Modulation Type:	DBPSK, DQPSK, CCK
Antenna Type:	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066
Antenna Gain (See Note 2):	Main = -2.20 dBi AUX = -0.20 dBi
Transmit Output Power:	17 dBm (Typical) for 802.11b mode 16 dBm (Typical) for 802.11g mode Please see Appendix A (Data Sheets) for actual output power.
Power Supply:	3.3VDC from computer MPCI slot.
Number of External Test Ports Exercised:	2 Antenna Ports (1 Main & 1 Auxiliary)

The Intel PRO/Wireless 2200BG Network Connection is an embedded 2.4 GHz Wireless Local Area Network Mini-PCI adapter. The Mini-PCI Type 3B form factor is designed for notebook computer systems where overall thickness must be kept to an absolute minimum. It is capable of a data rate of up to 11 Mbps in 802.11b mode and 54 Mbps in 802.11g mode. Please refer to section 4.2 of this report for a further description.

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

NOTE 2: Refer to the antenna specifications for a further description of the antennas. Antennas will be professionally installed inside a laptop computer by the laptop vendor. The antenna gain was subtracted from the antenna cable loss to come up with the total antenna gain.

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4.1.1 Channel Number and Frequencies

Eleven channels are provided for the EUT.

Channel	Frequency (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462



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4.2 EUT Configuration

The EUT was tested installed in the Mini-PCI slot of the Hewlett Packard host computer as a modular device using a PCI extender board to extend the EUT outside the computer chassis. The EUT was then connected to a set of antennas via its Main and AUX antenna ports. Data for a set of Phycomp/Yageo Corporation dual band antennas can be found in Appendix A (Data Sheets)

The low (channel 1), middle (channel 6), and high (channel 11) were tested in 802.11b & g modes. Also, the EUT was tested once transmitting from the MAIN antenna port and once transmitting from the AUX antenna port. The EUT was transmitting and receiving on a continuous basis.



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4.3 List of EUT, Sub-Assemblies, and Host Equipment

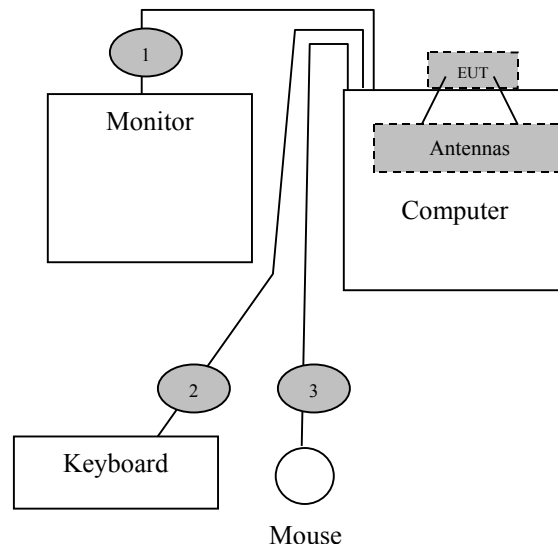
LIST OF EUT AND SUB-ASSEMBLIES			
Equipment Name	Manufacturer	Model Number	Serial Number
Intel PRO/Wireless 2200BG Network Connection	Intel Corporation	WM3B2200BG	013E24523AD C54906006
EUT Sub-Assemblies			
Auxiliary Triple Band Antenna	Phycomp/Yageo Corporation	CAN4313359012501B	N/A
Main Triple Band Antenna	Phycomp/Yageo Corporation	CAN4313359012501B	N/A

HOST EQUIPMENT LIST			
Equipment Name	Manufacturer	Model Number	Serial Number
Computer	Hewlett Packard	Pavillion a300n	MXK3391864
LCD Monitor	Dell	E151FPp	CN-06R644-47804-34R- LATL
Keyboard	Hewlett Packard	5183	BF33339165
Mouse	Hewlett Packard	M042KC	30870136

NOTE: All the power cords of the above support equipment are standard non-shielded, 1.8 meters long.



4.4 I/O Cabling Diagram and Description



- Cable 1: This is a 6-foot braid and foil shielded round cable connecting the Hewlett Packard host computer with the Dell LCD monitor. It has metallic DB-15 type connector at the computer end and is hardwired to the monitor. The cable is bundled to a length of one meter and the shield of the cable is grounded to the chassis of both devices via the connector shells.
- Cable 2: This is a 6-foot braid and foil shielded round cable connecting the Hewlett Packard host computer to the Hewlett Packard keyboard. It has a metallic 6-pin mini din type connector at the computer end and is hardwired to the keyboard. The shield of the cable is grounded to the chassis of the computer via the connector shell.
- Cable 3: This is a 6-foot braid and foil shielded round cable connecting the Hewlett Packard host computer to the Hewlett Packard mouse. It has a metallic 6-pin mini din type connector at the computer end and is hardwired to the mouse. The shield of the cable is grounded to the chassis of the computer via the connector shell.



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5.0 TEST EQUIPMENT AND TEST SETUPS

The test equipment settings and functions are selected using the guidance of ANSI C63.4-1992. All test equipment setups and operations during conducted and radiated emissions testing are in accordance with this reference document.

5.1 AC Power Line Conducted Emissions

During conducted emissions measurements, a spectrum analyzer was used as the measuring instrument along with a preselector and quasi-peak detector. A 10 dB attenuation pad was used for the protection of the spectrum analyzer input stage. The conducted emissions from the EUT in the frequency range from 150 kHz to 30 MHz were captured for graphical display through the use of automated LABVIEW EMI measurement software. All graphical readings were measured in the “Peak” mode only to reduce testing time. Upon completion of the graphical scan, the test lab personnel performed the conducted measurement scan manually using the spectrum analyzer front panel keys. The spectrum analyzer bandwidth settings for measuring “Peak”, “Average”, and/or “Quasi-Peak” conducted emissions were set at 9 kHz. The Frequency Span was set at 300 kHz, Resolution Bandwidth = 100 kHz, Video Bandwidth = 100 kHz, Sweep Time = 200msec with a reference level set at 97.0 dBuV. Attenuation was set at 10dB, Positive Peak. All peak measurements coming within 3 dB of the limit line were “Averaged” and/or “Quasi-Peaked” and denoted appropriately in the EXCEL spreadsheet.

The Equipment Under Test (EUT) was configured as a system with peripherals connected, so that at least one interface port of each type is connected to one external peripheral when tested for conducted emissions according to ANSI C63.4: 1992. Excess power cord length was wrapped in a bundle 30 to 40 centimeters in length near the center of the cord. The EUT was tested in a tabletop configuration.

The emission readings for Line 1 and Line 2 are highlighted on the data sheets in Appendix A. The graphical scans only reflects peak readings while the tabulated data sheets reflect peak, average, and/or quasi-peak readings which ever applies.



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5.2 Spurious Radiated Emissions

A spectrum analyzer was used as the measuring instrumentation along with a preselector and quasi-peak-detector. The pre-amplifiers were used to increase the sensitivity of the instrument. The spectrum analyzer was used in the peak detector mode with the “max-hold” feature activated and in Positive Peak mode. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak detector was used only for those readings, which are marked accordingly in the data sheet. The effective measurement bandwidth used for the radiated emissions test was 120 kHz for (30 MHz- 1000 MHz). The Frequency Span was set at 1 MHz Resolution Bandwidth = 1MHz, Video Bandwidth = 1 MHz, Sweep Time = 20msec with a reference level set at 97.0 dBuV. Attenuation was set at 0dB, Positive Peak. The spectrum analyzer operated such that the modulation of the signal was filtered out to set the analyzer in linear mode. For testing beyond 1000 MHz a spectrum analyzer capable of taking reading above 1000 MHz was connected to the high frequency amplifier, where these measurement readings were taken with the transducer placed at a 3-meter test distance from the EUT. The spectrum analyzer settings for testing beyond 1000 MHz included Resolution and Video Bandwidths set at 1 MHz, Sweep Time = 50 msec.

The Open Area Test Sites (OATS) was used for radiated emission testing. These test sites are designed according to ANSI C63.4: 1992 and ANSI C63.7: 1992 guidelines. The Measurements were conducted in accordance with ANSI C63.4: 1992 and ANSI C63.7: 1992 requirements.

Broadband biconical, log periodic, and horn antennas were used as transducers during the measurement reading phase. The frequency spans were wide (30 MHz-88 MHz, 88 MHz- 216 MHz, 216 MHz- 300 MHz, and 300 MHz- 1000 MHz). After 1000 MHz the horn antenna was used to measure emissions. The emission readings in both horizontal and vertical polarities are highlighted on the data sheets in Appendix A.

5.3 Conducted Emissions at the Antenna Port

A spectrum analyzer or power meter was used as the measuring instrumentation along with an attenuator and/or filter connected to the EUT antenna port. The attenuator and filters are used to ensure that the front end of the measurement instrument is not overloaded by the fundamental transmission. . The instruments recorded the measured readings with the bandwidths (video and resolution) set in accordance with the FCC Rules and regulations.

For the power out measurements an oscilloscope along with a schottky detector diode, 12dB attenuator, and a signal generator were used to perform the measurements.

The measured readings are on the data sheets in Appendix A.



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5.4 Test and Measurement Equipment Used

TEST EQUIPMENT USED					
Equipment Name	Manufacturer	Model Number	Serial Number	Calibration Due Date	Calibration Cycle
EMI Receiver - RF Section	Hewlett Packard	85462A	3325A00137	12/12/04	1 Year
EMI Receiver - RF Filter Section	Hewlett Packard	85460A	3330A00138	12/12/04	1 Year
Attenuator - 5W-10dB	Pasternack	PE7014-10	N/A	03/30/04	1 Year
LISN (EUT)	FCC	FCC-LISN-50-25-2	9931	02/20/04	1 Year
LISN (Access)	Com-Power	LI-200	12019	02/25/04	1 Year
LISN (Access)	Com-Power	LI-200	12018	02/25/04	1 Year
Spectrum Analyzer	Agilent	8564EC	4046A00387	02/28/04	2 Years
Preamplifier	Miteq	JS42-01001800-25-10P	815980 - 884968 - 885090	12/09/04	2 Years
High Pass Filter	Microwave Circuits, Inc.	H3G020G2	0301DC0132	04/29/04	2 Years
Antenna - Biconical	EMCO	3110	9108-1421	02/11/05	1 Year
Antenna - Log Periodic	EMCO	3148	4947	02/11/05	1 Year
1-18 GHz Antenna - Horn	Com-Power	AH-118	10069	12/09/04	2 Years
18-26.5 GHz Antenna – Horn	Custom Microwave	H042	001	05/09/04	1 Year
Power Meter	Rohde & Schwarz	NRVS	DE30863	07/21/05	2 Years
Power Sensor	Leistungsmesskoph	NRV-Z5	844855/012	07/21/05	2 Years
Oscilloscope	Tektronix	TDS3012B	B028086	08/21/04	1 Year
Schottkey Detector Diode	Narda	4503A	0209	None	None
12dB Attenuator	Narda	4779-12	0203	None	None
Signal Generator	Hewlett Packard	83752A	3610A01906	02/22/04	1 Year
Temperature/Humidity Monitor	Dickson	TH550	7255185	02/18/04	1 Year

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6.0 SAMPLE CALCULATIONS

If a preamplifier is used during the Radiated Emissions Testing, it is required that the amplifier gain be subtracted from the Spectrum Analyzer (Meter) Reading. In addition, a correction factor for the antenna, cable and a distance factor, if any, must be applied to the Meter Reading before a true field strength reading can be obtained. In the case of manual measurements and for greater efficiency and convenience, usage of the calibration correction factors is necessary to calculate the Corrected Meter Reading. These correlation factors for each meter reading shall be modified to reflect these correlation factors at each frequency value so that the meter readings can be compared directly to the modified specification limit. This modified specification limit is referred to as the "Corrected Meter Reading Limit" (CML).

The equation shall be derived in the following manner:

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

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor

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

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

For the manual mode of measurement, a table of corrected meter reading limits shall be used to permit immediate comparison of the meter reading to determine if the measured emission amplitude exceeded the specification limit at that specific frequency. There shall be two calculation sheets done, one for three meter and one for ten-meter measurement distances, where applicable.



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6.0 Sample Calculations (Continued)

Peak Transmit Power Output:

A correction factor for the cable must be applied to the Conducted Power before a true power reading can be obtained. This is referred to as the “Corrected Power” (CP).

The equation shall be derived in the following manner:

$$\text{Corrected Power Reading} = \text{Conducted Power Reading} + C$$

Where, C = Cable Factor

The conducted power is taken in units of dBm. To obtain units of mW the following equation is used:

$$\text{mW} = 10^{(\text{dBm}/10)}$$



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7.0 MODIFICATIONS AND RECOMMENDATIONS

No modifications were made to the EUT.



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APPENDIX A

TEST DATA

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Spurious Radiated Emissions Test Results (Continued)

CLIENT:	Intel Corporation	DATE:	02/11/04
EUT:	Intel PRO/Wireless 2200BG Network Connection	PROJECT NUMBER:	INTEL-040211
MODEL NUMBER:	WM3B2200BG	TEST ENGINEER:	Rick Candelas
SERIAL NUMBER:	013E24523ADC54906006	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot in 802.11b mode with the Phycomp/Yageo Corporation antennas.	TEMPERATURE:	19 C
		HUMIDITY:	21% RH
		TIME:	2:00 PM

Standard:	FCC CFR 47, Part 15.247(c)
Description:	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.
Results:	Passes (See Data Sheets)

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

NOTE 1: RBW/VBW = 1 MHz

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Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11b mode
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Phycomp/Yageo
Corporation Antennas
Aegis Labs, Inc. File #: INTEL-040211-02*

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
2412.00	71.50	100	135				3.30	31.11	105.91		
2412.00				65.83	A		3.30	31.11	100.24		
2437.00	72.00	125	135				3.32	31.05	106.37		
2437.00				66.33	A		3.32	31.05	100.70		
2462.00	72.33	125	135				3.34	30.99	106.66		
2462.00				66.83	A		3.34	30.99	101.16		

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
2412.00	74.50	100	315				3.30	31.24	109.04		
2412.00				69.17	A		3.30	31.24	103.71		
2437.00	75.50	100	315				3.32	31.20	110.02		
2437.00				69.83	A		3.32	31.20	104.35		
2462.00	74.83	100	315				3.34	31.16	109.33		
2462.00				69.17	A		3.34	31.16	103.67		

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Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11b mode
Channels 1 & 11
Continuous TX at MAIN Antenna port with Phycomp/Yageo
Corporation Antennas
Aegis Labs, Inc. File #: INTEL-040211-02*

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
2390.00								52.41	74.00	-21.59
2390.00					A			41.74	54.00	-12.26
2386.50								57.08	74.00	-16.92
2386.50					A			44.41	54.00	-9.59
2400.00	38.50	100	135			3.29	31.14	72.93	85.91	-12.98
2483.50								57.66	74.00	-16.34
2483.50					A			47.50	54.00	-6.50
2489.00								58.82	74.00	-15.18
2489.00					A			47.83	54.00	-6.17

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
2390.00								55.54	74.00	-18.46
2390.00					A			45.21	54.00	-8.79
2386.50								60.21	74.00	-13.79
2386.50					A			47.88	54.00	-6.12
2400.00	40.83	100	315			3.29	31.26	75.38	89.04	-13.66
2483.50								60.33	74.00	-13.67
2483.50					A			50.01	54.00	-3.99
2489.00								61.49	74.00	-12.51
2489.00					A			50.34	54.00	-3.66

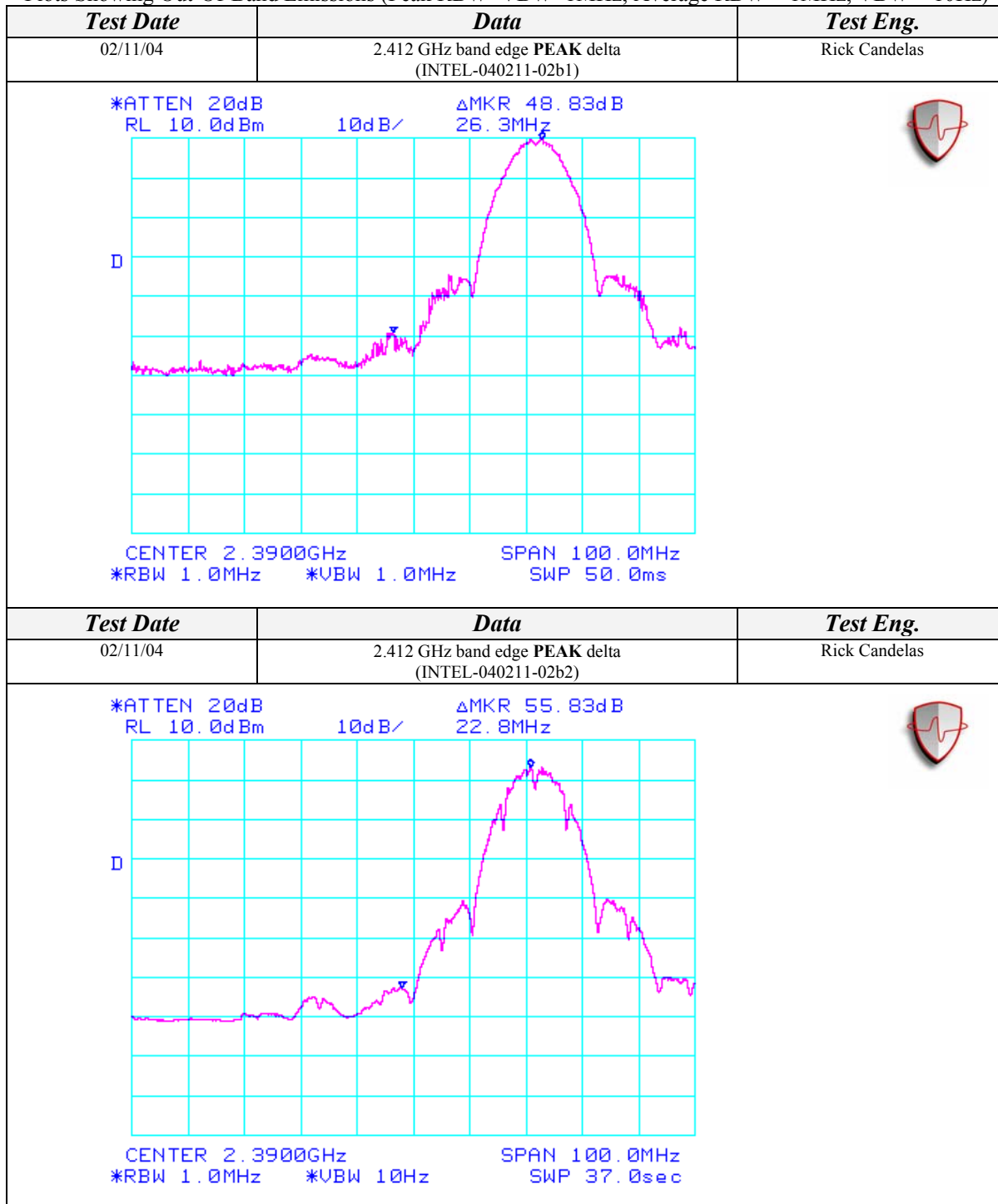
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Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



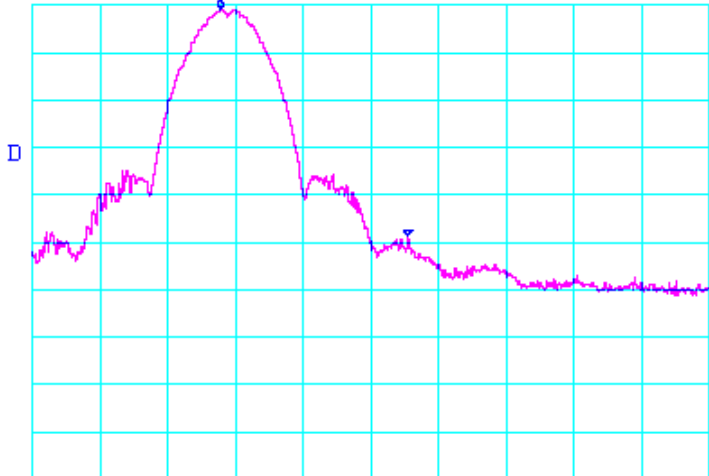
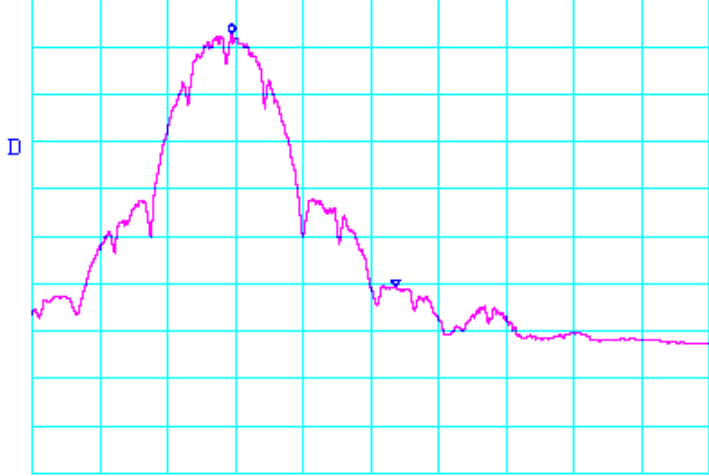
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Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)

Test Date	Data	Test Eng.
02/11/04	2.462 GHz band edge PEAK delta (INTEL-040211-02b3)	Rick Candelas
*ATTEN 20dB RL 10.0dBm 10dB/ ΔMKR 47.84dB -27.7MHz  CENTER 2.4835GHz SPAN 100.0MHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms		
Test Date	Data	Test Eng.
02/11/04	2.462 GHz band edge AVERAGE delta (INTEL-040211-02b4)	Rick Candelas
*ATTEN 20dB RL 10.0dBm 10dB/ ΔMKR 53.33dB -24.2MHz  CENTER 2.4835GHz SPAN 100.0MHz *RBW 1.0MHz *VBW 10Hz SWP 37.0sec		

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Report Number: INTEL-040211F
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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Phycomp/Yageo
Corporation Antennas
Aegis Labs, Inc. File #: INTEL-040211-03*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		1 Meter Distance Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
2312.00	32.33	100	225			9.54	3.23	31.35	57.37	74.00	-16.63
2312.00				20.33	A	9.54	3.23	31.35	45.37	54.00	-8.63
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
2336.00	31.33	100	225			9.54	3.25	31.29	56.33	74.00	-17.67
2336.00				18.67	A	9.54	3.25	31.29	43.67	54.00	-10.33
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)											
2360.00	32.50	100	90			9.54	3.26	31.24	57.46	74.00	-16.54
2360.00				19.00	A	9.54	3.26	31.24	43.96	54.00	-10.04
RADIATED EMISSIONS - Vertical Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		1 Meter Distance Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
2312.00	35.67	100	225			9.54	3.23	31.40	60.76	74.00	-13.24
2312.00				25.83	A	9.54	3.23	31.40	50.92	54.00	-3.08
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
2336.00	34.00	100	225			9.54	3.25	31.36	59.07	74.00	-14.93
2336.00				23.83	A	9.54	3.25	31.36	48.90	54.00	-5.10
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)											
2360.00	33.33	100	225			9.54	3.26	31.32	58.38	74.00	-15.62
2360.00				20.33	A	9.54	3.26	31.32	45.38	54.00	-8.62

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in 802.11b mode
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Phycomp/Yageo
Corporation Antennas
Aegis Labs, Inc. File #: INTEL-040211-04

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
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
1007.80	58.00	100	315			42.66	2.08	25.55	42.97	74.00	-31.03
1007.80				46.83	A	42.66	2.08	25.55	31.80	54.00	-22.20
1099.38	57.50	100	315			42.63	2.21	26.12	43.19	74.00	-30.81
1099.38				43.17	A	42.63	2.21	26.12	28.86	54.00	-25.14
3216.00	55.67	100	225			43.07	3.89	30.24	46.73	85.91	-39.18
4824.07	60.17	100	135			43.27	4.73	34.53	56.16	74.00	-17.84
4824.07				56.00	A	43.27	4.73	34.53	51.99	54.00	-2.01
6432.02	60.83	100	135			43.82	5.73	36.64	59.39	85.91	-26.52
9648.07	58.00	100	135			43.22	6.95	38.88	60.61	85.91	-25.30
12060.06	55.17	100	135			43.40	7.81	42.52	62.10	74.00	-11.90
12060.06				45.00	A	43.40	7.81	42.52	51.93	54.00	-2.07
12864.08	54.50	100	135			43.83	7.95	43.87	62.49	85.91	-23.42
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
1007.93	58.17	100	315			42.66	2.08	25.55	43.14	74.00	-30.86
1007.93				46.33	A	42.66	2.08	25.55	31.30	54.00	-22.70
1099.64	57.50	100	315			42.63	2.21	26.12	43.20	74.00	-30.80
1099.64				44.00	A	42.63	2.21	26.12	29.70	54.00	-24.30
3249.32	56.33	100	225			43.08	3.91	30.25	47.40	86.37	-38.97
4874.02	58.00	100	180			43.29	4.77	34.72	54.20	74.00	-19.80
4874.02				52.33	A	43.29	4.77	34.72	48.53	54.00	-5.47
6498.70	60.33	100	135			43.84	5.78	36.90	59.16	86.37	-27.21
9747.90	59.67	100	135			43.25	6.99	39.00	62.40	86.37	-23.97
12186.58	53.17	100	135			43.52	7.80	42.57	60.02	74.00	-13.98
12186.58				41.50	A	43.52	7.80	42.57	48.35	54.00	-5.65
12997.41	55.17	100	135			43.83	8.02	44.29	63.65	86.37	-22.72

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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

EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)

1008.23	58.00	100	315			42.66	2.08	25.55	42.97	74.00	-31.03
1008.23				46.17	A	42.66	2.08	25.55	31.14	54.00	-22.86
1099.64	57.83	100	315			42.63	2.21	26.12	43.53	74.00	-30.47
1099.64				43.00	A	42.63	2.21	26.12	28.70	54.00	-25.30
3282.66	55.33	100	225			43.10	3.91	30.26	46.40	86.66	-40.26
4923.98	56.83	100	180			43.30	4.81	34.91	53.24	74.00	-20.76
4923.98				52.33	A	43.30	4.81	34.91	48.74	54.00	-5.26
6565.37	57.00	100	180			43.84	5.83	37.32	56.31	86.66	-30.35
9847.89	63.83	100	135			43.29	7.03	39.12	66.69	86.66	-19.97
12308.83	51.83	100	135			43.64	7.79	42.62	58.60	74.00	-15.40
12308.83				38.17	A	43.64	7.79	42.62	44.94	54.00	-9.06
13130.84	52.17	100	135			43.70	8.07	44.25	60.79	86.66	-25.87

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
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
1012.02	66.33	100	135			42.66	2.09	25.77	51.53	74.00	-22.47
1012.02				51.00	A	42.66	2.09	25.77	36.20	54.00	-17.80
1097.12	63.50	100	315			42.63	2.20	26.28	49.36	74.00	-24.64
1097.12				46.50	A	42.63	2.20	26.28	32.36	54.00	-21.64
3216.10	53.83	100	135			43.07	3.89	30.44	45.09	89.04	-43.95
4823.97	54.33	125	135			43.27	4.73	34.53	50.32	74.00	-23.68
4823.97				49.33	A	43.27	4.73	34.53	45.32	54.00	-8.68
6432.07	58.17	100	135			43.82	5.73	36.64	56.73	89.04	-32.31
9648.07	59.17	100	135			43.22	6.95	38.97	61.87	89.04	-27.17
12069.12	53.33	125	135			43.41	7.80	42.64	60.36	74.00	-13.64
12069.12				43.17	A	43.41	7.80	42.64	50.20	54.00	-3.80
12864.00	54.67	125	270			43.83	7.95	44.23	63.02	89.04	-26.02

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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

EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)

1012.12	67.50	100	135			42.66	2.09	25.77	52.70	74.00	-21.30
1012.12				51.17	A	42.66	2.09	25.77	36.37	54.00	-17.63
1099.65	64.33	100	315			42.63	2.21	26.30	50.21	74.00	-23.79
1099.65				47.00	A	42.63	2.21	26.30	32.88	54.00	-21.12
3249.33	54.67	100	135			43.08	3.91	30.45	45.94	90.02	-44.08
4874.18	55.67	100	135			43.29	4.77	34.72	51.87	74.00	-22.13
4874.18				49.00	A	43.29	4.77	34.72	45.20	54.00	-8.80
6498.64	57.83	100	135			43.84	5.78	36.89	56.66	90.02	-33.36
9747.86	58.83	100	135			43.25	6.99	39.15	61.71	90.02	-28.31
12185.80	52.67	100	135			43.52	7.80	42.87	59.81	74.00	-14.19
12185.80				41.50	A	43.52	7.80	42.87	48.64	54.00	-5.36
12997.28	54.00	100	225			43.83	8.02	44.49	62.68	90.02	-27.34

EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)

1012.05	68.00	100	135			42.66	2.09	25.77	53.20	74.00	-20.80
1012.05				50.33	A	42.66	2.09	25.77	35.53	54.00	-18.47
1100.05	64.83	100	135			42.63	2.21	26.30	50.71	74.00	-23.29
1100.05				47.50	A	42.63	2.21	26.30	33.38	54.00	-20.62
3282.66	54.17	100	135			43.10	3.91	30.46	45.44	89.33	-43.89
4923.91	54.00	125	135			43.30	4.81	34.91	50.41	74.00	-23.59
4923.91				48.17	A	43.30	4.81	34.91	44.58	54.00	-9.42
6565.40	55.00	100	135			43.84	5.83	37.38	54.37	89.33	-34.96
9848.05	64.67	100	135			43.29	7.03	39.33	67.74	89.33	-21.59
12309.92	51.17	100	270			43.64	7.79	43.12	58.43	74.00	-15.57
12309.92				36.17	A	43.64	7.79	43.12	43.43	54.00	-10.57
13130.76	53.50	100	225			43.70	8.07	44.45	62.32	89.33	-27.01

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode
Channels 1, 6, & 11
Continuous RX at MAIN Antenna port with Phycomp/Yageo
Corporation Antennas
Aegis Labs, Inc. File #: INTEL-040211-04*

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
EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)											
1009.03	58.50	100	315			42.66	2.08	25.56	43.48	74.00	-30.52
1009.03				46.83	A	42.66	2.08	25.56	31.81	54.00	-22.19
1098.51	47.00	100	315			42.63	2.20	26.11	32.69	74.00	-41.31
1098.51				43.83	A	42.63	2.20	26.11	29.52	54.00	-24.48
3216.00	55.67	100	225			43.07	3.89	30.24	46.73	80.00	-33.27
3216.00				51.17	A	43.07	3.89	30.24	42.23	60.00	-17.77
6432.05	61.00	100	135			43.82	5.73	36.64	59.56	80.00	-20.44
6432.05				58.00	A	43.82	5.73	36.64	56.56	60.00	-3.44
9648.03	56.50	100	225			43.22	6.95	38.88	59.11	80.00	-20.89
9648.03				51.00	A	43.22	6.95	38.88	53.61	60.00	-6.39
EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)											
1008.53	58.50	100	315			42.66	2.08	25.55	43.48	74.00	-30.52
1008.53				47.33	A	42.66	2.08	25.55	32.31	54.00	-21.69
1098.24	57.83	100	315			42.63	2.20	26.11	43.51	74.00	-30.49
1098.24				43.00	A	42.63	2.20	26.11	28.68	54.00	-25.32
3249.37	58.00	100	225			43.08	3.91	30.25	49.07	80.00	-30.93
3249.37				54.67	A	43.08	3.91	30.25	45.74	60.00	-14.26
6498.67	60.17	100	135			43.84	5.78	36.89	59.00	80.00	-21.00
6498.67				57.50	A	43.84	5.78	36.89	56.33	60.00	-3.67
9748.05	55.83	100	180			43.25	6.99	39.00	58.56	80.00	-21.44
9748.05				51.50	A	43.25	6.99	39.00	54.23	60.00	-5.77

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

RADIATED EMISSIONS - Horizontal Antenna Polarization										
<i>Freq.</i> <i>(MHz)</i>	<i>Meter</i> <i>Reading</i> <i>(dBuV)</i>	<i>Antenna</i> <i>Height</i> <i>(cm)</i>	<i>Azimuth</i> <i>(degrees)</i>	<i>Quasi pk or</i> <i>AVG (dBuV)</i>	<i>Preamp</i> <i>Factor</i> <i>(dB)</i>	<i>Cable</i> <i>Factor</i> <i>(dB)</i>	<i>Ant.</i> <i>Factor</i> <i>(dB)</i>	<i>Corrected</i> <i>Reading</i> <i>(dBuV)</i>	<i>Limits</i> <i>(dBuV)</i>	<i>Diff (dB)</i> <i>+=FAIL</i>

EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)

1007.64	58.50	100	315			42.66	2.08	25.55	43.47	74.00	-30.53
1007.64				46.83	A	42.66	2.08	25.55	31.80	54.00	-22.20
1097.48	58.17	100	315			42.63	2.20	26.10	43.85	74.00	-30.15
1097.48				40.33	A	42.63	2.20	26.10	26.01	54.00	-27.99
3282.71	57.33	100	270			43.10	3.91	30.26	48.40	80.00	-31.60
3282.71				54.33	A	43.10	3.91	30.26	45.40	60.00	-14.60
6565.35	57.67	100	135			43.84	5.83	37.32	56.98	80.00	-23.02
6565.35				54.17	A	43.84	5.83	37.32	53.48	60.00	-6.52
9848.04	59.83	100	180			43.29	7.03	39.12	62.69	80.00	-17.31
9848.04				55.67	A	43.29	7.03	39.12	58.53	60.00	-1.47

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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
EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)											
1008.37	63.17	100	135			42.66	2.08	25.75	48.34	74.00	-25.66
1008.37				52.00	A	42.66	2.08	25.75	37.17	54.00	-16.83
1100.05	65.17	100	135			42.63	2.21	26.30	51.05	74.00	-22.95
1100.05				48.00	A	42.63	2.21	26.30	33.88	54.00	-20.12
3216.08	55.67	100	135			43.07	3.89	30.44	46.93	80.00	-33.07
3216.08				52.00	A	43.07	3.89	30.44	43.26	60.00	-16.74
6432.00	58.17	100	135			43.82	5.73	36.64	56.73	80.00	-23.27
6432.00				54.50	A	43.82	5.73	36.64	53.06	60.00	-6.94
9648.12	55.50	100	135			43.22	6.95	38.97	58.20	80.00	-21.80
9648.12				49.33	A	43.22	6.95	38.97	52.03	60.00	-7.97
EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)											
1008.14	63.00	100	135			42.66	2.08	25.75	48.17	74.00	-25.83
1008.14				51.83	A	42.66	2.08	25.75	37.00	54.00	-17.00
1100.08	63.50	100	135			42.63	2.21	26.30	49.38	74.00	-24.62
1100.08				47.17	A	42.63	2.21	26.30	33.05	54.00	-20.95
3249.38	54.17	100	135			43.08	3.91	30.45	45.44	80.00	-34.56
3249.38				49.17	A	43.08	3.91	30.45	40.44	60.00	-19.56
6498.67	57.83	100	135			43.84	5.78	36.89	56.66	80.00	-23.34
6498.67				53.67	A	43.84	5.78	36.89	52.50	60.00	-7.50
9747.98	56.50	100	135			43.25	6.99	39.15	59.38	80.00	-20.62
9747.98				52.33	A	43.25	6.99	39.15	55.21	60.00	-4.79
EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)											
1008.38	62.50	100	135			42.66	2.08	25.75	47.67	74.00	-26.33
1008.38				52.17	A	42.66	2.08	25.75	37.34	54.00	-16.66
1099.72	63.50	100	135			42.63	2.21	26.30	49.38	74.00	-24.62
1099.72				47.00	A	42.63	2.21	26.30	32.88	54.00	-21.12
3282.54	55.67	100	135			43.10	3.91	30.46	46.94	80.00	-33.06
3282.54				51.83	A	43.10	3.91	30.46	43.10	60.00	-16.90
6565.25	55.83	100	135			43.84	5.83	37.38	55.20	80.00	-24.80
6565.25				51.83	A	43.84	5.83	37.38	51.20	60.00	-8.80
9848.06	58.67	100	135			43.29	7.03	39.33	61.74	80.00	-18.26
9848.06				55.67	A	43.29	7.03	39.33	58.74	60.00	-1.26

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

CLIENT:	Intel Corporation	DATE:	02/11/04
EUT:	Intel PRO/Wireless 2200BG Network Connection	PROJECT NUMBER:	INTEL-040211
MODEL NUMBER:	WM3B2200BG	TEST ENGINEER:	Rick Candelas
SERIAL NUMBER:	013E24523ADC54906006	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot in 802.11g mode with the Phycomp/Yageo Corporation antennas.	TEMPERATURE:	19 C
		HUMIDITY:	21% RH
		TIME:	2:00 PM

Standard:	FCC CFR 47, Part 15.247(c)
Description:	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.
Results:	Passes (See Data Sheets)

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

NOTE 1: RBW/VBW = 1 MHz

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11g mode
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Phycomp/Yageo
Corporation Antennas
Aegis Labs, Inc. File #: INTEL-040211-02*

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
2412.00	70.50	100	135				3.30	31.11	104.91		
2412.00				57.17	A		3.30	31.11	91.58		
2437.00	71.67	125	135				3.32	31.05	106.04		
2437.00				58.00	A		3.32	31.05	92.37		
2462.00	71.67	125	135				3.34	30.99	106.00		
2462.00				58.17	A		3.34	30.99	92.50		

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
2412.00	75.17	100	270				3.30	31.24	109.71		
2412.00				61.17	A		3.30	31.24	95.71		
2437.00	75.17	100	270				3.32	31.20	109.69		
2437.00				60.33	A		3.32	31.20	94.85		
2462.00	74.17	100	315				3.34	31.16	108.67		
2462.00				59.33	A		3.34	31.16	93.83		

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11g mode
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Phycomp/Yageo
Corporation Antennas
Aegis Labs, Inc. File #: INTEL-040211-02*

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
2390.00								62.75	74.00	-11.25
2390.00					A			46.91	54.00	-7.09
2400.00	29.83	100	135			3.29	31.14	64.26	84.91	-20.65
2483.50								67.67	74.00	-6.33
2483.50					A			51.17	54.00	-2.83

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
2390.00								67.55	74.00	-6.45
2390.00					A			51.04	54.00	-2.96
2400.00	34.33	100	270			3.29	31.26	68.88	89.71	-20.83
2483.50								70.34	74.00	-3.66
2483.50					A			52.50	54.00	-1.50

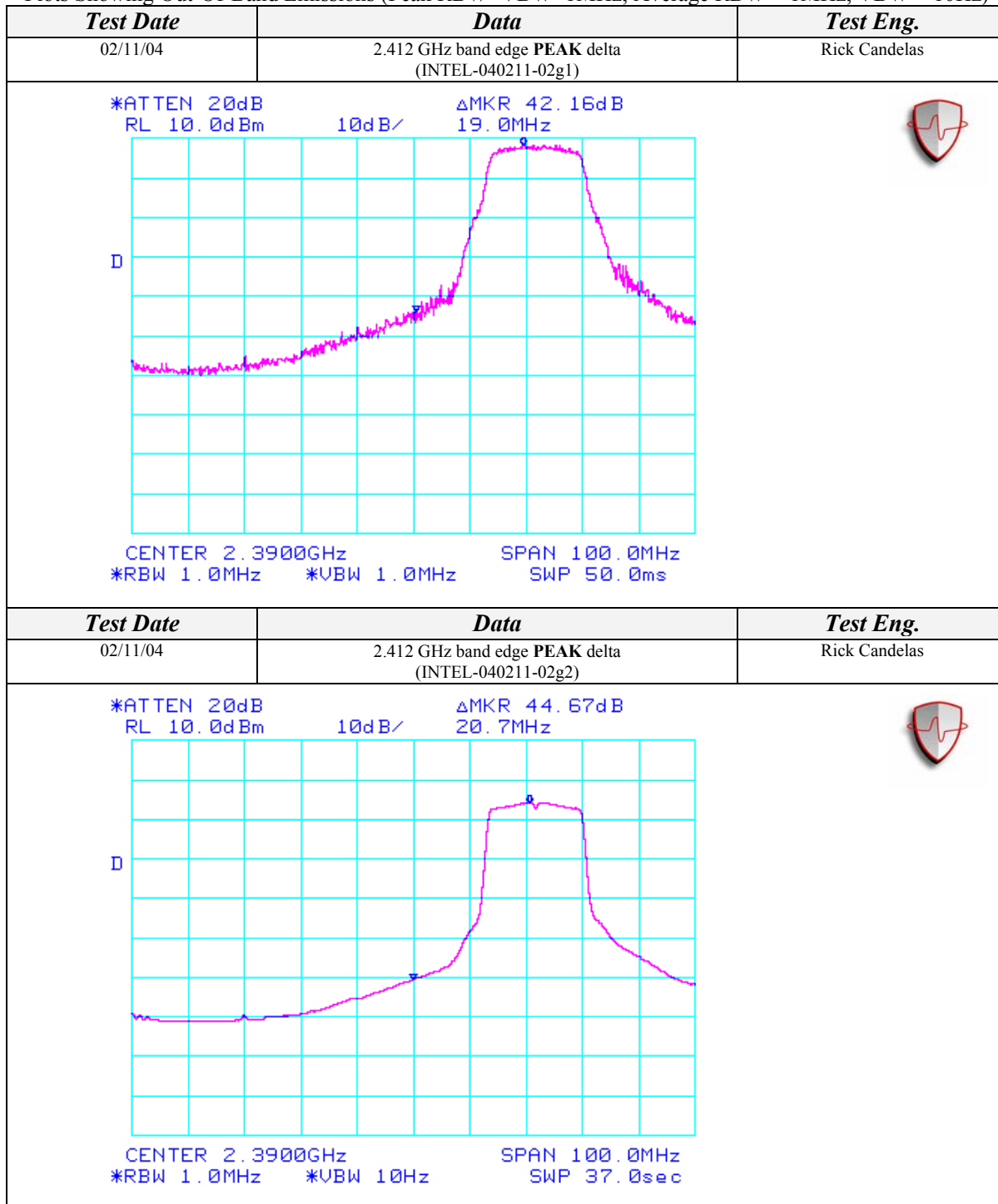
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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



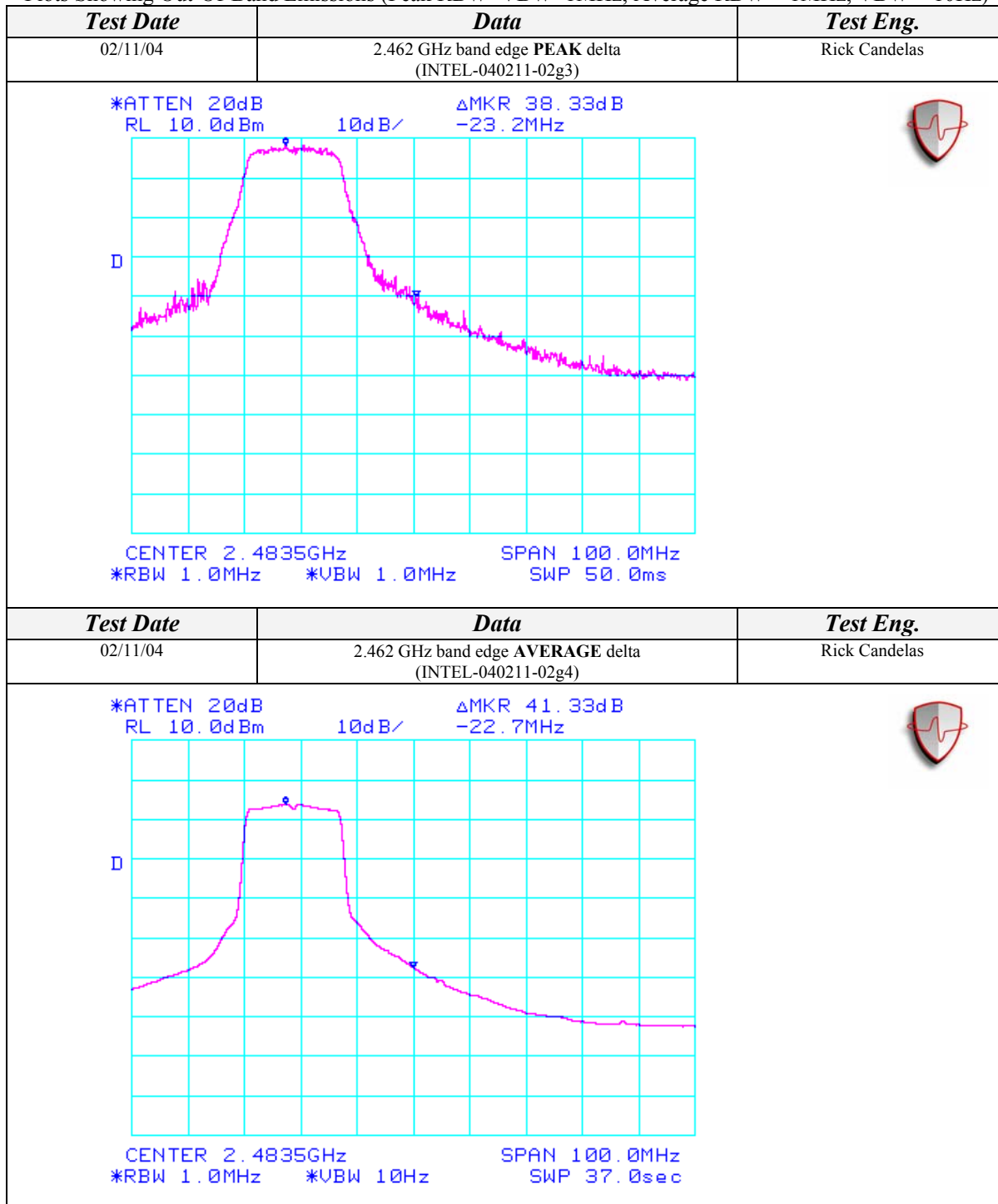
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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Phycomp/Yageo
Corporation Antennas
Aegis Labs, Inc. File #: INTEL-040211-03*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		1 Meter Distance Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
2312.00	32.83	100	225			9.54	3.23	31.35	57.87	74.00	-16.13
2312.00				22.00	A	9.54	3.23	31.35	47.04	54.00	-6.96
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
2336.00	32.33	100	225			9.54	3.25	31.29	57.33	74.00	-16.67
2336.00				20.17	A	9.54	3.25	31.29	45.17	54.00	-8.83
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)											
2360.00	31.50	100	180			9.54	3.26	31.24	56.46	74.00	-17.54
2360.00				19.00	A	9.54	3.26	31.24	43.96	54.00	-10.04
RADIATED EMISSIONS - Vertical Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		1 Meter Distance Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
2312.00	37.33	100	225			9.54	3.23	31.40	62.42	74.00	-11.58
2312.00				27.83	A	9.54	3.23	31.40	52.92	54.00	-1.08
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
2336.00	36.00	100	225			9.54	3.25	31.36	61.07	74.00	-12.93
2336.00				27.50	A	9.54	3.25	31.36	52.57	54.00	-1.43
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)											
2360.00	34.00	100	225			9.54	3.26	31.32	59.05	74.00	-14.95
2360.00				22.33	A	9.54	3.26	31.32	47.38	54.00	-6.62

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in 802.11g mode
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Phycomp/Yageo
Corporation Antennas
Aegis Labs, Inc. File #: INTEL-040211-04

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	
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
1007.64	57.67	100	315			42.66	2.08	25.55	42.64	74.00	-31.36
1007.64				46.50	A	42.66	2.08	25.55	31.47	54.00	-22.53
1099.78	57.50	100	315			42.63	2.21	26.12	43.20	74.00	-30.80
1099.78				43.67	A	42.63	2.21	26.12	29.37	54.00	-24.63
3216.03	55.50	100	225			43.07	3.89	30.24	46.56	84.91	-38.35
4824.47	49.17	100	135			43.27	4.73	34.53	45.17	74.00	-28.83
4823.97				36.50	A	43.27	4.73	34.53	32.49	54.00	-21.51
6431.95	59.33	100	135			43.82	5.73	36.64	57.89	84.91	-27.02
9647.90	55.00	100	225			43.22	6.95	38.88	57.61	84.91	-27.30
12864.05	54.33	100	135			43.83	7.95	43.86	62.32	84.91	-22.59
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
1008.39	58.50	100	315			42.66	2.08	25.55	43.48	74.00	-30.52
1008.39				46.33	A	42.66	2.08	25.55	31.31	54.00	-22.69
1099.94	57.83	100	315			42.63	2.21	26.12	43.53	74.00	-30.47
1099.94				43.33	A	42.63	2.21	26.12	29.03	54.00	-24.97
3249.35	56.00	100	225			43.08	3.91	30.25	47.07	86.04	-38.97
4873.96	46.83	100	135			43.29	4.77	34.72	43.03	74.00	-30.97
4873.96				34.00	A	43.29	4.77	34.72	30.20	54.00	-23.80
6498.65	59.50	100	180			43.84	5.78	36.89	58.33	86.04	-27.71
9748.02	56.00	100	225			43.25	6.99	39.00	58.73	86.04	-27.31
12997.30	53.67	100	135			43.83	8.02	44.29	62.15	86.04	-23.89

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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

EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)

1007.98	57.17	100	315			42.66	2.08	25.55	42.14	74.00	-31.86
1007.98				47.00	A	42.66	2.08	25.55	31.97	54.00	-22.03
1098.11	58.17	100	315			42.63	2.20	26.11	43.85	74.00	-30.15
1098.11				43.67	A	42.63	2.20	26.11	29.35	54.00	-24.65
3282.69	56.00	100	225			43.10	3.91	30.26	47.07	86.00	-38.93
4923.82	47.67	100	135			43.30	4.81	34.91	44.08	74.00	-29.92
4923.82				35.00	A	43.30	4.81	34.91	31.41	54.00	-22.59
6565.04	57.17	100	135			43.84	5.83	37.32	56.48	86.00	-29.52
9847.92	59.17	100	225			43.29	7.03	39.12	62.03	86.00	-23.97
13130.82	53.00	100	135			43.70	8.07	44.25	61.62	86.00	-24.38

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
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EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)

1012.00	66.00	100	135			42.66	2.09	25.77	51.20	74.00	-22.80
1012.00				50.50	A	42.66	2.09	25.77	35.70	54.00	-18.30
1096.62	64.33	100	135			42.63	2.20	26.28	50.18	74.00	-23.82
1096.62				46.67	A	42.63	2.20	26.28	32.52	54.00	-21.48
3216.05	54.83	125	135			43.07	3.89	30.44	46.09	89.71	-43.62
4824.06	49.33	100	45			43.27	4.73	34.53	45.32	74.00	-28.68
4824.06				34.83	A	43.27	4.73	34.53	30.82	54.00	-23.18
6432.02	57.33	100	135			43.82	5.73	36.64	55.89	89.71	-33.82
9647.93	55.33	100	135			43.22	6.95	38.97	58.03	89.71	-31.68
12863.97	53.33	100	225			43.83	7.95	44.23	61.68	89.71	-28.03

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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>Preamp Factor (dB)</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>

EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)

1012.08	67.67	100	135			42.66	2.09	25.77	52.87	74.00	-21.13
1012.08				50.33	A	42.66	2.09	25.77	35.53	54.00	-18.47
1100.25	64.17	100	135			42.63	2.21	26.30	50.05	74.00	-23.95
1100.25				46.83	A	42.63	2.21	26.30	32.71	54.00	-21.29
3249.33	54.00	100	135			43.08	3.91	30.45	45.27	89.69	-44.42
4873.85	46.67	100	225			43.29	4.77	34.72	42.87	74.00	-31.13
4873.85				33.67	A	43.29	4.77	34.72	29.87	54.00	-24.13
6498.74	58.00	125	135			43.84	5.78	36.90	56.83	89.69	-32.86
9748.18	56.83	125	135			43.25	6.99	39.15	59.71	89.69	-29.98
12997.36	54.17	100	225			43.83	8.02	44.49	62.85	89.69	-26.84

EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)

1012.18	66.50	100	135			42.66	2.09	25.77	51.70	74.00	-22.30
1012.18				51.50	A	42.66	2.09	25.77	36.70	54.00	-17.30
1100.22	64.00	100	135			42.63	2.21	26.30	49.88	74.00	-24.12
1100.22				47.00	A	42.63	2.21	26.30	32.88	54.00	-21.12
3282.65	53.50	100	135			43.10	3.91	30.46	44.77	88.67	-43.90
4923.89	46.50	100	135			43.30	4.81	34.91	42.91	74.00	-31.09
4923.89				33.83	A	43.30	4.81	34.91	30.24	54.00	-23.76
6565.38	55.17	100	135			43.84	5.83	37.38	54.54	88.67	-34.13
9848.31	56.50	100	135			43.29	7.03	39.33	59.57	88.67	-29.10
13130.66	52.33	100	225			43.70	8.07	44.45	61.15	88.67	-27.52



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode
Channels 1, 6, & 11
Continuous RX at MAIN Antenna port with Phycomp/Yageo
Corporation Antennas
Aegis Labs, Inc. File #: INTEL-040211-04*

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
EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)											
1008.14	58.67	100	315			42.66	2.08	25.55	43.64	74.00	-30.36
1008.14				46.83	A	42.66	2.08	25.55	31.80	54.00	-22.20
1099.41	57.33	100	315			42.63	2.21	26.12	43.02	74.00	-30.98
1099.41				43.33	A	42.63	2.21	26.12	29.02	54.00	-24.98
3216.03	55.83	100	225			43.07	3.89	30.24	46.89	80.00	-33.11
3216.03				51.83	A	43.07	3.89	30.24	42.89	60.00	-17.11
6432.08	61.33	100	135			43.82	5.73	36.64	59.89	80.00	-20.11
6432.08				59.17	A	43.82	5.73	36.64	57.73	60.00	-2.27
9648.03	56.00	100	225			43.22	6.95	38.88	58.61	80.00	-21.39
9648.03				51.00	A	43.22	6.95	38.88	53.61	60.00	-6.39
EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)											
1008.03	58.50	100	315			42.66	2.08	25.55	43.47	74.00	-30.53
1008.03				47.17	A	42.66	2.08	25.55	32.14	54.00	-21.86
1099.54	57.00	100	315			42.63	2.21	26.12	42.69	74.00	-31.31
1099.54				44.00	A	42.63	2.21	26.12	29.69	54.00	-24.31
3249.40	57.67	100	225			43.08	3.91	30.25	48.74	80.00	-31.26
3249.40				54.67	A	43.08	3.91	30.25	45.74	60.00	-14.26
6498.67	60.83	100	135			43.84	5.78	36.89	59.66	80.00	-20.34
6498.67				58.33	A	43.84	5.78	36.89	57.16	60.00	-2.84
9747.99	57.17	100	180			43.25	6.99	39.00	59.90	80.00	-20.10
9747.99				51.50	A	43.25	6.99	39.00	54.23	60.00	-5.77

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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

RADIATED EMISSIONS - Horizontal Antenna Polarization										
<i>Freq.</i> <i>(MHz)</i>	<i>Meter</i> <i>Reading</i> <i>(dBuV)</i>	<i>Antenna</i> <i>Height</i> <i>(cm)</i>	<i>Azimuth</i> <i>(degrees)</i>	<i>Quasi pk or</i> <i>AVG (dBuV)</i>	<i>Preamp</i> <i>Factor</i> <i>(dB)</i>	<i>Cable</i> <i>Factor</i> <i>(dB)</i>	<i>Ant.</i> <i>Factor</i> <i>(dB)</i>	<i>Corrected</i> <i>Reading</i> <i>(dBuV)</i>	<i>Limits</i> <i>(dBuV)</i>	<i>Diff (dB)</i> <i>+=FAIL</i>

EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)

1008.01	58.17	100	315			42.66	2.08	25.55	43.14	74.00	-30.86
1008.01				47.33	A	42.66	2.08	25.55	32.30	54.00	-21.70
1099.94	57.00	100	315			42.63	2.21	26.12	42.70	74.00	-31.30
1099.94				43.67	A	42.63	2.21	26.12	29.37	54.00	-24.63
3282.74	57.17	100	225			43.10	3.91	30.26	48.24	80.00	-31.76
3287.74				54.33	A	43.10	3.91	30.26	45.40	60.00	-14.60
6565.77	58.17	100	135			43.84	5.83	37.32	57.48	80.00	-22.52
6565.77				54.17	A	43.84	5.83	37.32	53.48	60.00	-6.52
9848.08	59.17	100	135			43.29	7.03	39.12	62.03	80.00	-17.97
9848.08				55.00	A	43.29	7.03	39.12	57.86	60.00	-2.14



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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
EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)											
1009.34	62.83	100	135			42.66	2.08	25.76	48.01	74.00	-25.99
1009.34				52.00	A	42.66	2.08	25.76	37.18	54.00	-16.82
1100.32	64.00	100	135			42.63	2.21	26.30	49.88	74.00	-24.12
1100.32				46.83	A	42.63	2.21	26.30	32.71	54.00	-21.29
3215.83	54.00	100	135			43.07	3.89	30.44	45.26	80.00	-34.74
3215.83				49.00	A	43.07	3.89	30.44	40.26	60.00	-19.74
6432.02	57.00	100	225			43.82	5.73	36.64	55.56	80.00	-24.44
6432.02				53.50	A	43.82	5.73	36.64	52.06	60.00	-7.94
9647.90	54.67	100	180			43.22	6.95	38.97	57.37	80.00	-22.63
9647.90				47.50	A	43.22	6.95	38.97	50.20	60.00	-9.80
EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)											
1011.34	63.17	100	135			42.66	2.09	25.77	48.37	74.00	-25.63
1011.34				51.00	A	42.66	2.09	25.77	36.20	54.00	-17.80
1099.85	68.17	100	135			42.63	2.21	26.30	54.05	74.00	-19.95
1099.85				47.00	A	42.63	2.21	26.30	32.88	54.00	-21.12
3249.32	54.33	100	135			43.08	3.91	30.45	45.60	80.00	-34.40
3249.32				49.50	A	43.08	3.91	30.45	40.77	60.00	-19.23
6498.71	57.00	100	180			43.84	5.78	36.90	55.83	80.00	-24.17
6498.71				52.00	A	43.84	5.78	36.90	50.83	60.00	-9.17
9747.91	55.67	100	135			43.25	6.99	39.15	58.55	80.00	-21.45
9747.91				50.83	A	43.25	6.99	39.15	53.71	60.00	-6.29
EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)											
1010.03	63.00	100	135			42.66	2.08	25.76	48.19	74.00	-25.81
1010.03				52.33	A	42.66	2.08	25.76	37.52	54.00	-16.48
1100.02	64.17	100	135			42.63	2.21	26.30	50.05	74.00	-23.95
1100.02				47.00	A	42.63	2.21	26.30	32.88	54.00	-21.12
3282.73	55.67	100	135			43.10	3.91	30.46	46.94	80.00	-33.06
3282.73				51.67	A	43.10	3.91	30.46	42.94	60.00	-17.06
6565.19	56.00	100	135			43.84	5.83	37.38	55.37	80.00	-24.63
6565.19				50.50	A	43.84	5.83	37.38	49.87	60.00	-10.13
9848.10	59.33	100	135			43.29	7.03	39.33	62.40	80.00	-17.60
9848.10				54.17	A	43.29	7.03	39.33	57.24	60.00	-2.76

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 Report Number: INTEL-040211F
 FCC ID: PD9WM3B2200BG



AEGIS LABS INC.

PEAK TRANSMIT POWER

CLIENT:	Intel Corporation	DATE:	02/11/04
EUT:	Intel PRO/Wireless 2200BG Network Connection	PROJECT NUMBER:	INTEL-040211-01
MODEL NUMBER:	WM3B2200BG	TEST ENGINEER:	Rick Candelas
SERIAL NUMBER:	013E24523ADC54906006	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot.	TEMPERATURE:	17 C
		HUMIDITY:	21% RH
		TIME:	10:20 AM

Standard:	FCC CFR 47, Part 15.247(b)(1)
Description:	The maximum peak output power of the intentional radiator shall not exceed 1 watt.
Results:	See Data Sheet

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

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Report Number: INTEL-040211F
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Peak Transmit Power (Continued)

Mode	Channel	Frequency (MHz)	Rate (Mbps)	Conducted Power (dBm)	Cable Factor (dB)	Power Corrected (dBm)	Power (mW)
802.11b	1	2412	1	17.21	0.15	17.36	54.45
802.11b	1	2412	5.5	16.80	0.15	16.95	49.55
802.11b	1	2412	11	16.74	0.15	16.89	48.87
802.11b	6	2437	1	17.01	0.15	17.16	52.00
802.11b	6	2437	5.5	16.59	0.15	16.74	47.21
802.11b	6	2437	11	16.54	0.15	16.69	46.67
802.11b	11	2462	1	16.90	0.15	17.05	50.70
802.11b	11	2462	5.5	16.47	0.15	16.62	45.92
802.11b	11	2462	11	16.40	0.15	16.55	45.19
802.11g	1	2412	6	16.20	0.15	16.35	43.15
802.11g	1	2412	36	15.95	0.15	16.10	40.74
802.11g	1	2412	54	15.60	0.15	15.75	37.58
802.11g	6	2437	6	16.15	0.15	16.30	42.66
802.11g	6	2437	36	15.86	0.15	16.01	39.90
802.11g	6	2437	54	15.50	0.15	15.65	36.73
802.11g	11	2462	6	16.06	0.15	16.21	41.78
802.11g	11	2462	36	15.80	0.15	15.95	39.36
802.11g	11	2462	54	15.44	0.15	15.59	36.22

NOTE: The output power measurement is conducted.