

AEGIS LABS INC.



Modular Approval
Test Report
And Application for Grant of Equipment Authorization

Pertaining To:

Equipment Under Test	FCC ID:
Intel PRO/Wireless 3945ABG Network Connection, MN: WM3945ABG	PD9WM3945ABG

Configuration

802.11a with a set of Ethertronics Antennas

MEASUREMENTS PERFORMED IN ACCORDANCE WITH

Regulatory Standard(s)

47 CFR Part 15, Subpart E Section 15.407 (UNII Devices)

Test Method:

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



Certificate Number: 1111.01

APPLICANT:

Intel Corporation 2111 NE 25th Avenue Hillsboro, Oregon 97124

Contact(s): Mr. Robert Paxman

	REPORT	APPENDICES	TOTAL
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PAGES	16	38	54

PREPARED BY:

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Test Report #: INTEL-050902F

Test Report Revision: None

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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 E of Part 15 of the FCC rules for Unlicensed National Information Infrastructure (UNII) Devices.

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:

09/07/05

09/07/05 Date:

Johnny Candelas Test Technician

Aegis Labs, Inc.

Date: Rick Candelas

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09/07/05

Report Approved By:

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Steve J. Kuiper Da Quality Assurance Manager

Aegis Labs, Inc.

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2.0 SUMMARY OF TEST RESULTS

AEGIS LABS INC.

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
	Operation in the 5.15-5.25 GHz Band	l	
15.407(d)	Any UNII device shall use a transmitting antenna that is an integral part of the device.	PASSED	The antenna will be integral when installed in a notebook computer
15.407(e)	UNII devices will be restricted to indoor operations.	PASSED	Refer to "User's Manual" Exhibit
15.407(a)(1)	26dB emissions bandwidth in MHz.	N/A	5.18 GHz = 23.33 MHz
15.407(a)(1)	Peak transmit power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.18 GHz = 16.20dBm (41.69mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 3.50dBm
15.407(a)(1)	Peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.	N/A	5 GHz antenna gain = 5.0dBi
15.407(b)(5) / 15.209	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.	PASSED	See Data Sheets
15.407(b)(1)	All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of –27dBm/MHz.	PASSED	See Data Sheets
	Operation in the 5.25-5.35 GHz Band	ł	
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.26 GHz = 23.33 MHz 5.32 GHz = 25.33 MHz
15.407(a)(2)	Peak transmit power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.26 GHz = 18.30dBm (67.61mW) 5.32 GHz = 18.20dBm (66.07mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 7.33dBm 5.32 GHz = 7.00dBm
15.407(a)(2)	Peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.	N/A	5 GHz antenna gain = 5.0dBi
15.407(b)(5) / 15.209	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.	PASSED	See Data Sheets
15.407(b)(2)	All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of –27dBm/MHz. Must meet all applicable technical requirements for operating in the 5.15-5.25 GHz band.	PASSED	See Data Sheets

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2.0 SUMMARY OF TEST RESULTS (Continued)

	EMISSIONS STANDARD					
FCC Part 15 Section	Description	Results	Comments			
	General Requirements For All Band	s				
15.407(a)(6)	The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less.	PASSED	5.18 GHz = 5.00 dB 5.26 GHz = 5.00 dB 5.32 GHz = 5.00 dB			
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations Exhibit			
15.407(b) / 15.207	UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.	PASSED	See Data Sheets			

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3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

DEVICE TESTED:	ITE Type: Intel PRO/Wireless 3945ABG Network Connection Model Number(s): WM3945ABG Serial Number: 00B11A295CVD26965002 FCC ID: PD9WM3945ABG		
	FCC ID: PD9WM3945ABG		
TEST DATE(S):	July 26- September 7, 2005		
DATE EUT RECEIVED:	July 21, 2005		
ORIGIN OF TEST SAMPLE(S):	Production Unit		
RESPONSIBLE PARTY:	Intel Corporation 2111 NE 25 th Avenue Hillsboro, Oregon 97124		
CLIENT CONTACT:	Mr. Robert Paxman		
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, 2006		
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 3945ABG Network Connection		
Model Number:	WM3945ABG		
Frequency Range:	5.15-5.35 GHz		
Enclosure:	The EUT contains it's own shield made of aluminum approximately 3.5cm wide by 3.5cm deep by 2mm high.		
Transfer Rate:	6/36/52 Mbps		
Antenna Type:	Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066		
Antenna Gain (See Note 2):	Ethertronics Antenna @ 5 GHz = 5.00 dBi		
Transmit Output Power:	16 dBm (Typical) for 5.15-5.25 GHz 18 dBm (Typical) for 5.25-5.35 GHz 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 3945ABG Network Connection is an embedded 802.11a/b/g network adapter operating in the 2.4 GHz and 5 GHz spectrum. The EUT is based on the Mini Card form factor designed to meet the space and size requirements for thin and light notebook PCs. It is capable of a data rate of up to 52 Mbps.

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 the laptop computer by the laptop vendor.

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4.2 EUT Configuration

The EUT was tested installed in the Mini PCI-E slot of the 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 Ethertronics antennas can be found in Appendix A (Data Sheets)

The low, middle, and high channels were tested in 802.11a, b, & 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 placed in either continuous transmit or continuous receive mode by a program provided by the manufacturer (GRTT *Version 1.1.1*).

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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 3945ABG			00B11A295CV		
Network Connection	Intel Corporation	WM3945ABG	D26965002		
EUT Sub-Assemblies					
Main Multi Band Antenna	Ethertronics	MPCI01001	N/A		
Auxiliary Multi Band Antenna	Ethertronics	MPCI01001	N/A		

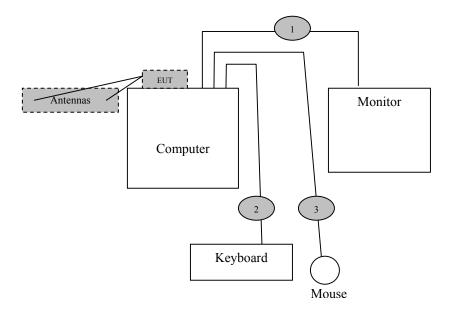
HOST EQUIPMENT LIST						
Equipment Name Manufacturer Model Number Serial Number						
Computer	Intel	Generic	IZTGVV4312035			
Monitor	Compaq	610	712BC060B526			
Keyboard	Logitech	Y-BF37	MCTZ5200581			
Mouse	Logitech	M-BJ58	PMA32715049			

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

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4.4 I/O Cabling Diagram and Description



- Cable 1: This is a 6-foot braid and foil shielded round cable connecting the host computer with the 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 host computer to the 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 host computer to the 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 C63.4-2003. 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. 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: 2003. 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 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 Open Area Test Sites (OATS) was used for radiated emission testing. These test sites are designed according to ANSI C63.4: 2003 and ANSI C63.7: 1992 guidelines. The Measurements were conducted in accordance with ANSI C63.4: 2003 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.

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
Spectrum Analyzer	Agilent	8565EC	3946A00245	07/29/06	1 Year
Preamp	Aegis Preamplifier	Aegis-Oats1-1-18	001	07/27/06	1 Year
2.4 GHz Notch Filter	Micro-Tronics	BRM50702-02	003	04/21/06	1 Year
5.15-5.35 GHz Notch Filter	Microwave Circuits	N0452502	3173-01	06/27/06	1 Year
5.725-5.850 GHz Notch Filter	Microwave Circuits	N0257881	3173-01	06/27/06	1 Year
Horn Antenna	ETS	DRG 3117	29614	07/23/06	1 Year
Antenna - 18-26.5 GHz Pre- amplified Horn	Aegis Labs, Inc.	H042	SLK-35-3W	11/04/05	1 Year
Antenna - 26.5-40 GHz Pre- amplified Horn	Aegis Labs, Inc.	H028	GM1260-10	11/04/05	1 Year
Cable	Semflex	60637	S1L29BFS134 8	04/11/06	1 Year
Temperature/Humidity Monitor	Dickson	TH550	7255185	N/A	N/A
Power Meter	Anritsu	ML2487A	6K00001785	04/12/06	1 Year
Wide Bandwidth Sensor	Anritsu	MA2491A	31193	04/12/06	1 Year
12dB Attenuator	Narda	4779-12	203	08/06/06	1 Year
Antenna - Biconical	EMCO	3110	9108-1421	05/17/06	1 Year
Antenna - Log Periodic	EMCO	3148	4947	05/11/06	1 Year
LISN (EUT)	FCC	FCC-LISN-50-25-2	9931	02/06/06	1 Year
LISN (Access)	Com-Power	LI-200	12019	07/05/07	1 Year
LISN (Access)	Com-Power	LI-200	12018	07/05/07	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 Automatic Mode of A.R.M.S. measurements, these considerations are automatically presented as a part of the printout. In the case of manual measurements and for greater efficiency and convenience, usage of the calibration correction factors in the Appendices 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:

Corrected Meter Reading = 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:

$$CML = Specification Limit - F - C + G + D$$

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. The correction factors for the antenna and the amplifier gain are attached in the Appendices.

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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:

Corrected Power Reading = 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:

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

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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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AC POWER LINE CONDUCTED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	09/06/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-050901
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC/RJ
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's	TEMPERATURE:	34 C
	mini PCI slot.	HUMIDITY:	14% RH
		TIME:	1:45 PM

Standard:	FCC CFR 47, Part 15.407(b)(5)
Description:	U-NII devices using an AC power line are required to comply with the conducted limits set forth in Sec. 15.207.
Results:	Passes the conducted limits by –9.86@ 0.5900 MHz

Conducted Limits									
Frequency (MHz) Quasi-Peak Limit (dBuV) Average Limit (dBuV)									
0.15-0.5	66 to 56*	56 to 46*							
0.5-5	56	46							
5-30	60	50							

^{*}Decreases with the logarithm of the frequency.

NOTE: During preliminary scans, there wasn't any difference which channel or data rate was used with the EUT; therefore the final testing was made with the EUT at the low channel and a data rate of 6 Mbps.

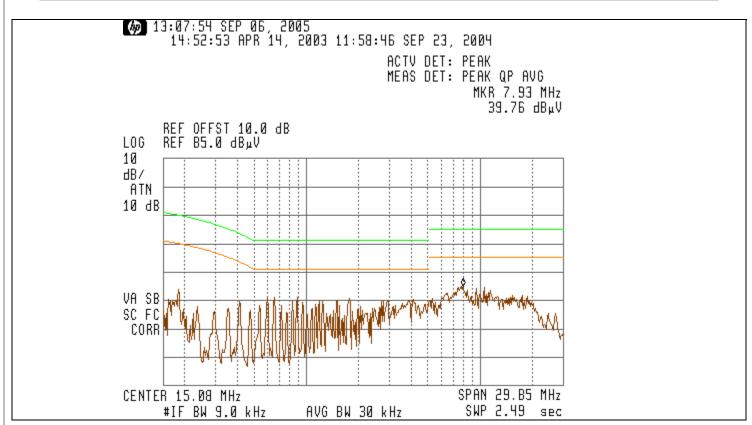
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AC Power Line Conducted Emissions Test Results (Continued)

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	CONDUCTED EMISSIONS – LINE 1											
Freq. (MHz)	Meter Reading (dBuV)	Detector (PK/QP/AV)	Average Limit (dBuV)	Average Delta(dB)	Quasi-Peak Limit (dBuV)	Quasi-Peak Delta(dB)						
0.1800	38.82	PK	55.14	-16.32	65.14	-26.32						
0.5900	36.14	PK	46.00	-9.86	56.00	-19.86						
0.6600	36.12	PK	46.00	-9.88	56.00	-19.88						
7.9300	39.76	PK	50.00	-10.24	60.00	-20.24						
9.4700	39.32	PK	50.00	-10.68	60.00	-20.68						
10.4000	39.67	PK	50.00	-10.33	60.00	-20.33						



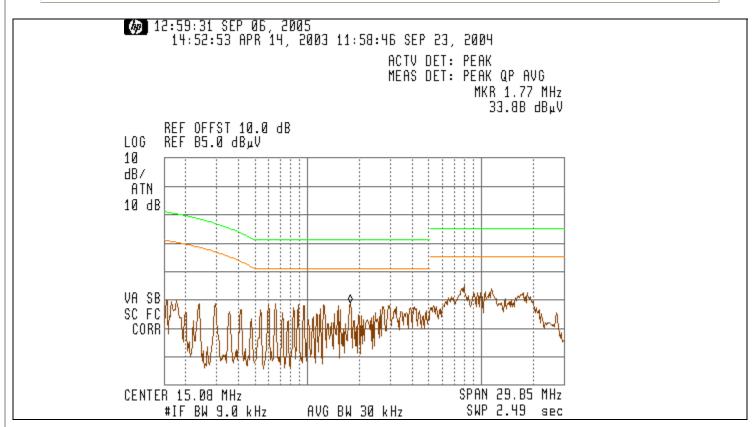
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AEGIS LABS INC.

AC Power Line Conducted Emissions Test Results (Continued)

	CONDUCTED EMISSIONS - LINE 2											
Freq. (MHz)	Meter Reading (dBuV)	Detector (PK/QP/AV)	Average Limit (dBuV)	Average Delta(dB)	Quasi-Peak Limit (dBuV)	Quasi-Peak Delta(dB)						
0.1600	34.48	PK	55.71	-21.23	65.71	-31.23						
0.1800	34.57	PK	55.14	-20.57	65.14	-30.57						
1.7700	33.88	PK	46.00	-12.12	56.00	-22.12						
7.9300	39.99	PK	50.00	-10.01	60.00	-20.01						
11.4200	38.87	PK	50.00	-11.13	60.00	-21.13						
17.3500	37.55	PK	50.00	-12.45	60.00	-22.45						



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SPURIOUS RADIATED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	09/06/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-050901
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's	TEMPERATURE:	21 C
	mini PCI slot.	HUMIDITY:	45% RH
		TIME:	8:30 AM

Standard:	FCC CFR 47, Part 15.407(b)(5)
Description:	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Sec. 15.209. (Using CISPR22 Class B Limits)
Results:	Passes the radiated limits by -6.43@ 120.04 MHz (Vertical antenna polarization)

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

NOTE: During preliminary scans, there wasn't any difference which channel or data rate was used with the EUT; therefore the final testing was made with the EUT at the low channel and a data rate of 6 Mbps

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SPURIOUS RADIATED EMISSIONS TEST RESULTS

	RADIATED EMISSIONS - Horizontal Antenna Polarization												
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)			Cable Factor (dB)	Ant. Factor (dB)	10 Meter Distance Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	
64.02	10.22	400	315				1.24	7.76	10.46	29.68	40.00	-10.32	
136.03	6.40	400	180				1.90	14.38	10.46	33.14	43.50	-10.36	
166.52	8.54	400	225				2.04	15.76	10.46	36.80	43.50	-6.70	
199.27	6.83	400	180				2.29	16.89	10.46	29.64	43.50	-13.86	
240.01	9.22	400	180				2.68	17.42	10.46	30.56	46.00	-15.44	
336.03	9.60	350	225				3.12	15.17	10.46	38.34	46.00	-7.66	
375.02	9.71	300	225				3.35	14.80	10.46	38.32	46.00	-7.68	
		I	RADIATE	ED EMISS	IO	NS - Vei	rtical A	ntenna I	Polarization	n			
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)			Cable Factor (dB)	Ant. Factor (dB)	10 Meter Distance Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	
61.26	16.51	100	90				1.21	7.52	10.46	35.71	40.00	-4.29	
120.04	12.70	100	135				1.80	12.11	10.46	37.07	43.50	-6.43	
147.63	10.12	100	180				1.90	14.56	10.46	37.04	43.50	-6.46	
216.01	8.31	100	135	6.06	Q		2.43	17.50	10.46	36.45	46.00	-9.55	
280.02	5.84	100	180				2.82	19.78	10.46	33.06	46.00	-12.94	
336.02	6.09	100	315				3.12	15.60	10.46	35.27	46.00	-10.73	
384.01	7.81	100	270				3.40	15.85	10.46	37.52	46.00	-8.48	

NOTE: The measurements were taken at 10 meters and extrapolated to 3 meters.

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CLIENT:	Intel Corporation	DATE:	07/26/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-050901
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC/BM
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's	TEMPERATURE:	31 C
	mini PCI slot in 802.11a (5150-5350	HUMIDITY:	46% RH
	MHz) mode with the Ethertronics antennas.	TIME:	3:20 PM

Standard:	FCC CFR 47, Part 15.407(b)(6)
Description:	The provisions of Sec. 15.205 apply to intentional radiators operating under this section.
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)	EIRP < -27dBm/MHz (68.3dBuV/m)							

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Fundamental Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous TX at MAIN Antenna port with Ethertronics Antennas
Aegis Labs, Inc. File #: INTEL-050721-23

	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)	$\begin{array}{c} Diff(dB) \\ +=FAIL \end{array}$		
5180.00	65.33	100	135				4.51	34.77	104.61				
5180.00				57.46	A		4.51	34.77	96.74				
5240.00	64.33	100	225				4.53	34.80	103.66				
5240.00				55.63	A		4.53	34.80	94.96				
5260.00	63.17	100	135				4.54	34.80	102.51				
5260.00				53.37	A		4.54	34.80	92.71				
5320.00	66.67	100	225				4.56	34.83	106.06				
5320.00				57.05	A		4.56	34.83	96.44				

	RADIATED EMISSIONS – Vertical Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk AVG (dB)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff(dB) += $FAIL$
5180.00	67.00	150	135				4.51	34.64	106.14		
5180.00				58.82	A		4.51	34.64	97.96		
5240.00	66.00	175	135				4.53	34.65	105.18		
5240.00				56.97	A		4.53	34.65	96.15		
5260.00	67.33	125	225				4.54	34.65	106.52		
5260.00				57.71	A		4.54	34.65	96.90		
5320.00	68.00	150	135				4.56	34.66	107.23		
5320.00				58.71	A		4.56	34.66	97.94		

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

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AEGIS LABS INC.

Band Edge Field Strength Calculations in 802.11a mode (5150-5350 MHz) Channels 32, 56, & 64 Continuous TX at MAIN Antenna port with Ethertronics Antennas Aegis Labs, Inc. File #: INTEL-050721-23

		RADIA	TED EN	MISSIONS	- Horizo	ntal Ant	enna Po	larization		
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
5150.00								58.95	74.00	-15.05
5150.00				A				46.08	54.00	-7.92
5350.00								62.23	74.00	-11.77
5350.00				A				49.28	54.00	-4.72
5353.00								65.23	74.00	-8.77
		RADI	ATED E	MISSIONS	S – Verti	cal Ante	nna Pol	arization		
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) += $FAIL$
5150.00								60.48	74.00	-13.52
5150.00				A				47.30	54.00	-6.70
5350.00								63.40	74.00	-10.60
5350.00				A				50.78	54.00	-3.22
5353.00								66.40	74.00	-7.60

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

 $BE = Fm - \Delta m$

12

Where

BE = Band Edge Field Strength

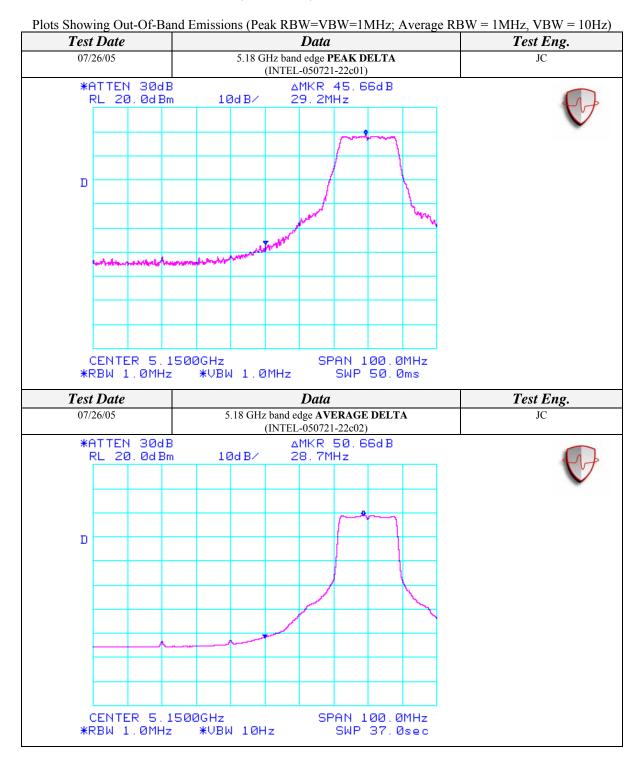
Fm = Measured Fundamental (Peak or Average)

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

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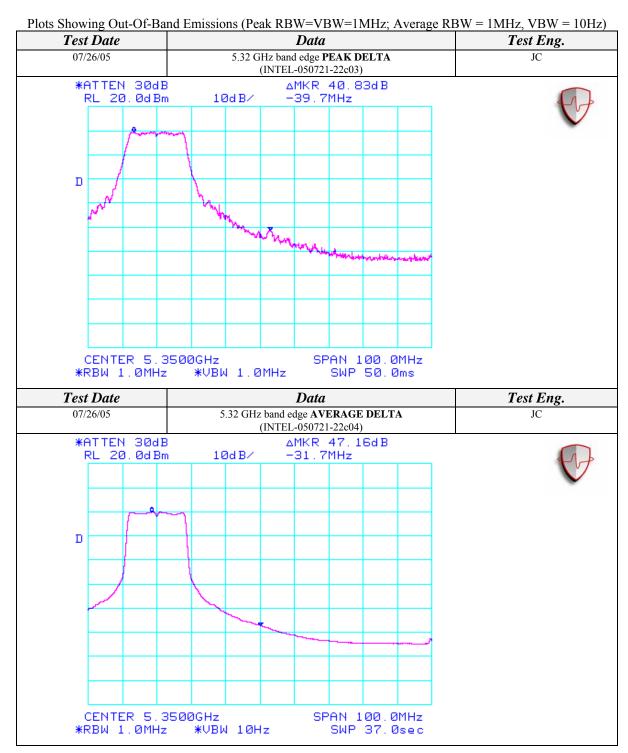
AEGIS LABS INC.



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AEGIS LABS INC.



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Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)

Channels 32, 56, & 64

Continuous TX at MAIN Antenna port with Ethertronics Antennas

Aegis Labs, Inc. File #: INTEL-050721-24

	RADIATED EMISSIONS - Horizontal Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk AVG (dB		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff(dB) += $FAIL$
EUT in Co	EUT in Continuous Transmit Mode on Channel 36 (5.18 GHz)										
3453.33	55.17	100	135			50.72	3.64	31.50	39.58	68.00	-28.42
6906.64	54.67	100	135			50.41	5.21	36.78	46.25	68.00	-21.75
10360.01	69.83	100	225			50.05	6.48	38.60	64.86	68.00	-3.14
15540.00	66.33	100	180			51.53	8.00	39.08	61.88	74.00	-12.12
15540.00				52.39	A	51.53	8.00	39.08	47.94	54.00	-6.06
EUT in Co	ntinuous	Transmit	Mode on C	Channel 5	2 (5.	26 GHz)					
3506.66	56.17	100	135			50.71	3.66	31.62	40.74	68.00	-27.26
10520.00	64.17	100	225			50.05	6.55	38.61	59.28	68.00	-8.72
15780.00	62.17	100	135			51.70	8.08	38.93	57.48	74.00	-16.52
15780.00				48.48	A	51.70	8.08	38.93	43.79	54.00	-10.21
EUT in Co	ntinuous	Transmit	Mode on C	Channel 6	4 (5	32 GHz)					
3546.66	56.33	100	135			50.70	3.69	31.72	41.04	68.00	-26.96
10639.98	66.83	100	225			50.07	6.58	38.68	62.03	74.00	-11.97
10639.98				54.65	A	50.07	6.58	38.68	49.85	54.00	-4.15
15960.00	68.50	100	135			51.83	8.14	38.82	63.63	74.00	-10.37
15960.00				55.56	A	51.83	8.14	38.82	50.69	54.00	-3.31

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	RADIATED EMISSIONS - Vertical Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk AVG (dB		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff(dB) += $FAIL$
EUT in Co	EUT in Continuous Transmit Mode on Channel 36 (5.18 GHz)										
3453.33	57.50	100	180			50.72	3.64	31.52	41.93	68.00	-26.07
6906.59	55.00	100	135			50.41	5.21	36.62	46.42	68.00	-21.58
10360.02	66.17	100	225			50.05	6.48	38.80	61.40	68.00	-6.60
15540.00	68.50	100	225			51.53	8.00	39.09	64.07	74.00	-9.93
15540.00				54.75	A	51.53	8.00	39.09	50.32	54.00	-3.68
EUT in Co	ntinuous	Transmit	Mode on C	Channel 5	2 (5.	26 GHz)					
3506.66	57.50	100	180			50.71	3.66	31.62	42.07	68.00	-25.93
10520.00	60.00	100	225			50.05	6.55	38.82	55.31	68.00	-12.69
15780.00	59.50	100	135			51.70	8.08	39.04	54.92	74.00	-19.08
15780.00				45.87	A	51.70	8.08	39.04	41.29	54.00	-12.71
EUT in Co	ntinuous	Transmit	Mode on C	Channel 6	4 (5	32 GHz)					
3546.66	57.17	100	180			50.70	3.69	31.72	41.88	68.00	-26.12
10639.98	63.83	100	225			50.07	6.58	38.91	59.25	74.00	-14.75
10639.98				51.86	A	50.07	6.58	38.91	47.28	54.00	-6.72
15960.00	64.83	100	225			51.83	8.14	39.01	60.14	74.00	-13.86
15960.00				52.35	A	51.83	8.14	39.01	47.66	54.00	-6.34

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Spurious Emissions Measurements in **802.11a mode** (**5150-5350 MHz**)
Channels 36, 52, & 64
Continuous TX at MAIN Antenna port with Ethertronics
Aegis Labs, Inc. File #: INTEL-050721-24a

		RAD	IATED E	MISSIC	NS	5 - Horizont	tal Antenna Po	larization		
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk AVG (dB		Cable Factor (dB)	Antenna/Preamp Factor (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Diff (dB)+=FAIL
EUT in Co	ntinuous T	Transmit M	lode on Cha	annel 36 (5.18	GHz)				
20720.00	52.67	100	225			9.33	3.25	58.76	74.00	-15.24
20720.00				38.89	A	9.33	3.25	44.98	54.00	-9.02
EUT in Co	ntinuous T	Transmit M	lode on Cha	annel 52 (5.26	GHz)				
21040.00	46.67	100	225			9.40	3.23	52.84	74.00	-21.16
21040.00				33.43	A	9.40	3.23	39.60	54.00	-14.40
EUT in Co	ntinuous T	Transmit M	lode on Cha	annel 64 (5.32	GHz)				
21280.00	53.50	100	225			9.46	3.39	59.57	74.00	-14.43
21280.00				40.89	A	9.46	3.39	46.96	54.00	-7.04
		RA	DIATED	EMISS	ON	S - Vertica	l Antenna Pol	arization		
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk AVG (dB		Cable Factor (dB)	Antenna/Preamp Factor (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	$\begin{array}{c} Diff \\ (dB)+=FAIL \end{array}$
EUT in Co	ntinuous T	Transmit M	lode on Cha	annel 36 (5.18	GHz)				
20720.00	51.83	100	225			9.33	2.95	58.22	74.00	-15.78
20720.00				39.22	A	9.33	2.95	45.61	54.00	-8.39
EUT in Co	ntinuous T	Transmit M	lode on Cha	annel 52 (5.26	GHz)				
21040.00	54.00	100	225			9.40	2.95	60.45	74.00	-13.55
21040.00				40.06	A	9.40	2.95	46.51	54.00	-7.49
EUT in Co	ntinuous T	Transmit M	lode on Cha	annel 64 (5.32	GHz)				
21280.00	53.17	100	225			9.46	3.22	59.42	74.00	-14.58
21280.00				40.68	A	9.46	3.22	46.93	54.00	-7.07

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Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)

Channels 32, 56, & 64

Continuous RX at MAIN Antenna port with Ethertronics Antennas

Aegis Labs, Inc. File #: INTEL-050721-24

		RADIA	ATED EN	MISSIO	NS	- Horizo	ntal An	tenna Po	olarization		
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk AVG (dBi		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff(dB) +=FAIL
EUT in C	ontinuous	Transmi	t Mode on	Channel	36 (5.18 GHz)					
3453.33	55.00	100	135			50.72	3.64	31.50	39.41	80.00	-40.59
3453.33				46.07	A	50.72	3.64	31.50	30.48	60.00	-29.52
6906.66	55.33	100	135			50.41	5.21	36.78	46.91	80.00	-33.09
6906.66				43.59	A	50.41	5.21	36.78	35.17	60.00	-24.83
10359.95	53.83	100	135			50.05	6.48	38.60	48.86	80.00	-31.14
10359.95				41.96	A	50.05	6.48	38.60	36.99	60.00	-23.01
EUT in C	ontinuous	s Transmi	t Mode on	Channel	52 (5.26 GHz)					
3506.66	56.50	100	135			50.71	3.66	31.62	41.07	80.00	-38.93
3506.66				48.10	A	50.71	3.66	31.62	32.67	60.00	-27.33
7013.33	55.00	100	135			50.34	5.26	37.09	47.00	80.00	-33.00
7013.33				43.61	A	50.34	5.26	37.09	35.61	60.00	-24.39
10519.94	54.33	100	135			50.05	6.55	38.61	49.44	80.00	-30.56
10519.94				42.56	A	50.05	6.55	38.61	37.67	60.00	-22.33
EUT in C	ontinuous	s Transmi	t Mode on	Channel	64 (5.32 GHz)					
3546.72	56.67	100	135			50.70	3.69	31.72	41.38	80.00	-38.62
3546.72				47.55	A	50.70	3.69	31.72	32.26	60.00	-27.74
7093.27	53.67	100	135			50.27	5.29	37.01	45.69	80.00	-34.31
7093.27				42.16	A	50.27	5.29	37.01	34.18	60.00	-25.82
10639.92	53.17	100	135			50.07	6.58	38.68	48.37	80.00	-31.63
10639.92				41.82	A	50.07	6.58	38.68	37.02	60.00	-22.98

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		RAD	IATED E	EMISSIC	ONS	S - Verti	cal Ante	nna Pol	arization		
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk AVG (dB		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff(dB) += $FAIL$
EUT in C	ontinuous	s Transmi	t Mode on	Channel	36 (5	5.18 GHz)					
3453.33	57.50	100	180			50.72	3.64	31.52	41.93	80.00	-38.07
3453.33				50.89	A	50.72	3.64	31.52	35.32	60.00	-24.68
6906.67	55.17	100	135			50.41	5.21	36.62	46.59	80.00	-33.41
6906.67				43.28	A	50.41	5.21	36.62	34.70	60.00	-25.30
10359.98	53.67	100	135			50.05	6.48	38.80	48.90	80.00	-31.10
10359.98				42.04	A	50.05	6.48	38.80	37.27	60.00	-22.73
EUT in C	ontinuous	s Transmi	t Mode on	Channel	52 (5	5.26 GHz)					
3506.68	58.33	100	180			50.71	3.66	31.62	42.90	80.00	-37.10
3506.68				51.74	A	50.71	3.66	31.62	36.31	60.00	-23.69
7013.36	54.83	100	135			50.34	5.26	36.89	46.64	80.00	-33.36
7013.36				42.69	A	50.34	5.26	36.89	34.50	60.00	-25.50
10519.91	54.00	100	135			50.05	6.55	38.82	49.31	80.00	-30.69
10519.95				42.23	A	50.05	6.55	38.82	37.54	60.00	-22.46
EUT in C	ontinuous	s Transmi	t Mode on	Channel	64 (5	5.32 GHz)					
3546.66	58.17	100	180			50.70	3.69	31.72	42.88	80.00	-37.12
3546.66				51.51	A	50.70	3.69	31.72	36.22	60.00	-23.78
7093.33	52.67	100	135			50.27	5.29	36.84	44.53	80.00	-35.47
7093.33				41.58	A	50.27	5.29	36.84	33.44	60.00	-26.56
10639.97	53.50	100	135			50.07	6.58	38.91	48.92	80.00	-31.08
10639.97				41.79	A	50.07	6.58	38.91	37.21	60.00	-22.79

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PEAK TRANSMIT POWER

CLIENT:	Intel Corporation	DATE:	09/01/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-050901-01
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	BM
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's	TEMPERATURE:	35 C
	mini PCI slot.	HUMIDITY:	17% RH
		TIME:	5:00 PM

Standard:	FCC CFR 47, Part 15.407(a)(1) & 15.407(a)(2)
Description:	For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10logB, where B is the 26-dB emission bandwidth in MHz. For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10logB, where B is the 26-dB emission bandwidth in MHz.
Results:	See Data Sheet

Peak Transmit Power Limits							
Frequency (MHz)	Output Power (mW)	Output Power (Note 1)					
5150-5250	50 (17 dBm)	4 dBm + 10logB = 17.68 dBm @ 5180 MHz					
5250-5350	250 (24 dBm)	11 dBm + 10logB = 24.68 dBm @ 5260 MHz 11 dBm + 10logB = 25.04 dBm @ 5320 MHz					

Note 1: Calculated using the 26-dB emissions bandwidth measurements.

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Peak Transmit Power (Continued)

Mode	Channel	Frequency (MHz)	Rate (Mbps)	Average Power (dBm)	Average Power (mW)	Peak Power (dBm)	Peak Power (mW)
802.11a	36	5180	6	15.86	38.55	16.20	41.69
802.11a	51	5240	6	15.79	37.93	16.80	47.86
802.11a	52	5260	6	17.20	52.48	18.30	67.61
802.11a	64	5320	6	17.19	52.36	18.20	66.07

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AEGIS LABS INC.

CONDCUTED BAND EDGE EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	09/07/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-050901
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's	TEMPERATURE:	20 C
	mini PCI slot.	HUMIDITY:	41% RH
		TIME:	10:00 AM

Standard:	FCC CFR 47, Part 15.407(b)(2)
Description:	For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
Results:	Passes (See Data Sheets)

Unwanted Spurious Emissions Limits					
Frequency (MHz)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)				
5250-5350	EIRP < -27dBm/MHz (68.3dBuV/m)				

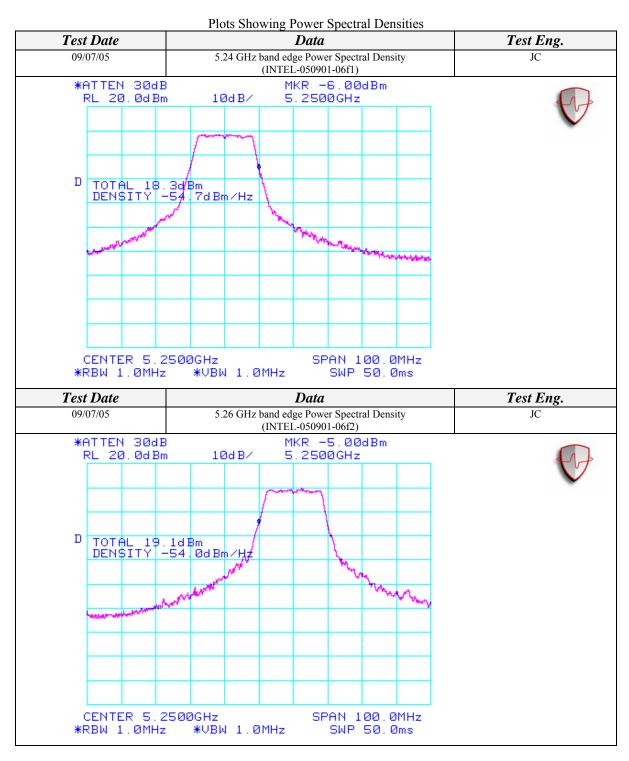
Freq. (MHz)	Power Spec Den. Reading (dBm/MHz)	Antenna Gain (dBi)	Corrected Reading (dBm/MHz)	Limits (dBm/MHz)	Diff (dB) +=FAIL	Comments
5250.00	-54.70	5.00	-49.70	-27.00	-22.70	Tx @ 5240 MHz
5250.00	-54.00	5.00	-49.00	-27.00	-22.00	Tx @ 5260 MHz

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Conducted Band Edge Emissions Test Results (Continued)

AEGIS LABS INC.



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26-dB EMISSIONS BANDWIDTH

CLIENT:	Intel Corporation	DATE:	09/02/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-050901
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's	TEMPERATURE:	17 C
	mini PCI slot.	HUMIDITY:	52% RH
		TIME:	9:00 AM

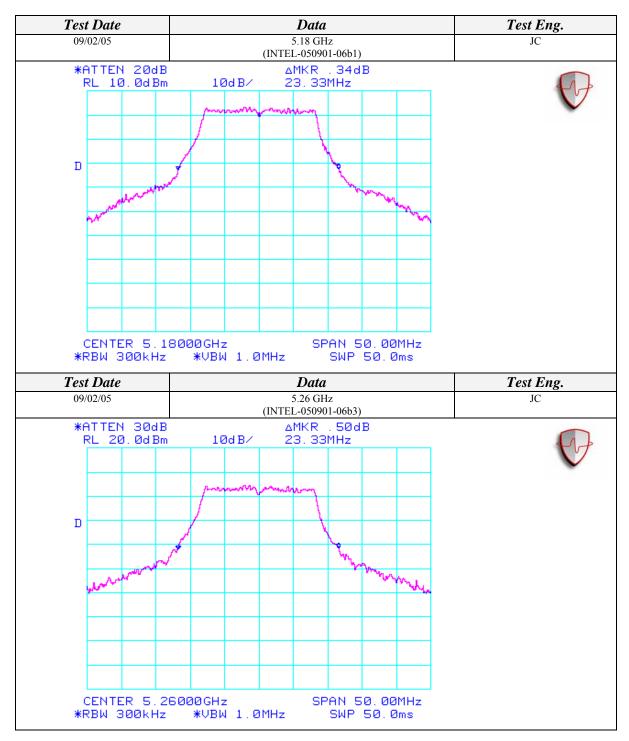
Standard:	FCC CFR 47, Part 15.407(a)(1) & 15.407(a)(2)
Description:	26-dB emission bandwidth in MHz
Results:	See Data Sheets

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26-dB Emissions Bandwidth (Continued)

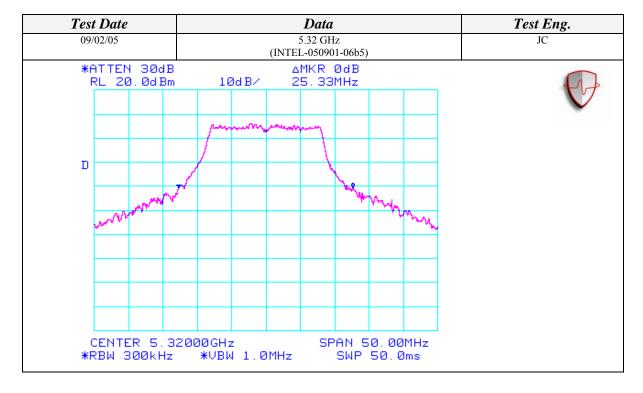


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26-dB Emissions Bandwidth (Continued)

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PEAK POWER SPECTRAL DENSITY

CLIENT:	Intel Corporation	DATE:	09/02/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-050901
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's	TEMPERATURE:	17 C
	mini PCI slot.	HUMIDITY:	52% RH
		TIME:	9:00 AM

Standard:	FCC CFR 47, Part 15.407(a)(1) & 15.407(a)(2)
Description:	For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band For the band 5.2 5-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band
Results:	See Data Sheets

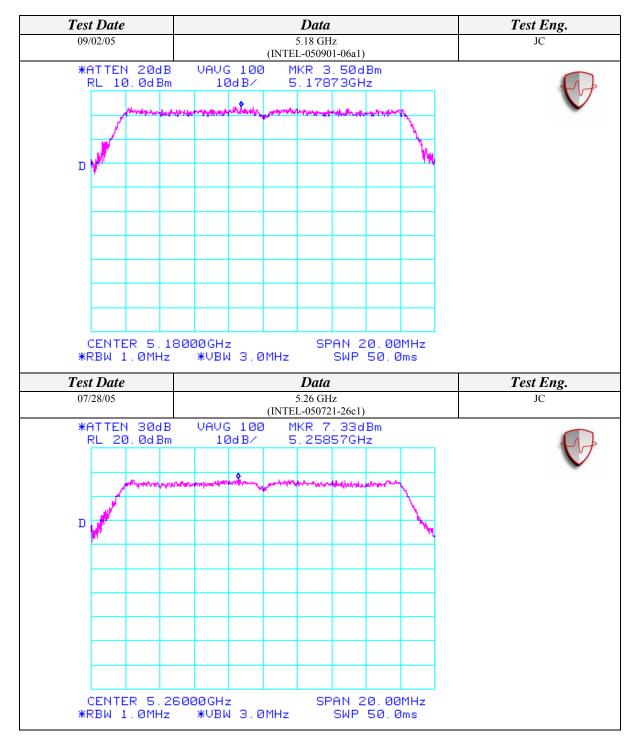
Peak Power Spectral Density Limits		
Frequency (MHz)	Limit (dBm)	
5150-5250	4	
5250-5350	11	

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Peak Power Spectral Density (Continued)



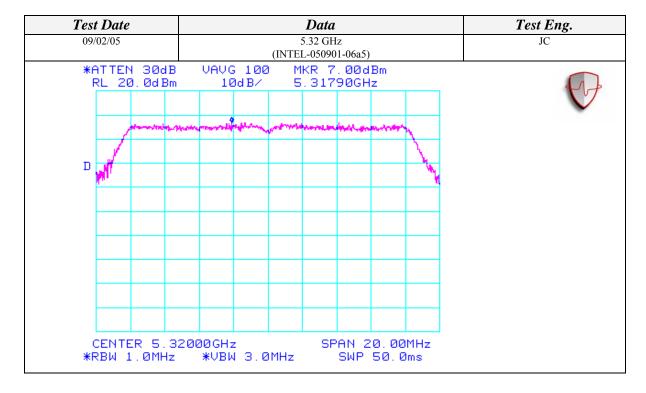


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Peak Power Spectral Density (Continued)

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PEAK EXCURSION

CLIENT:	Intel Corporation	DATE:	09/02/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-050901
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's	TEMPERATURE:	17 C
	mini PCI slot.	HUMIDITY:	52% RH
		TIME:	9:00 AM

Standard:	FCC CFR 47, Part 15.407(a)(6)
Description:	The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.
Results:	See Data Sheets

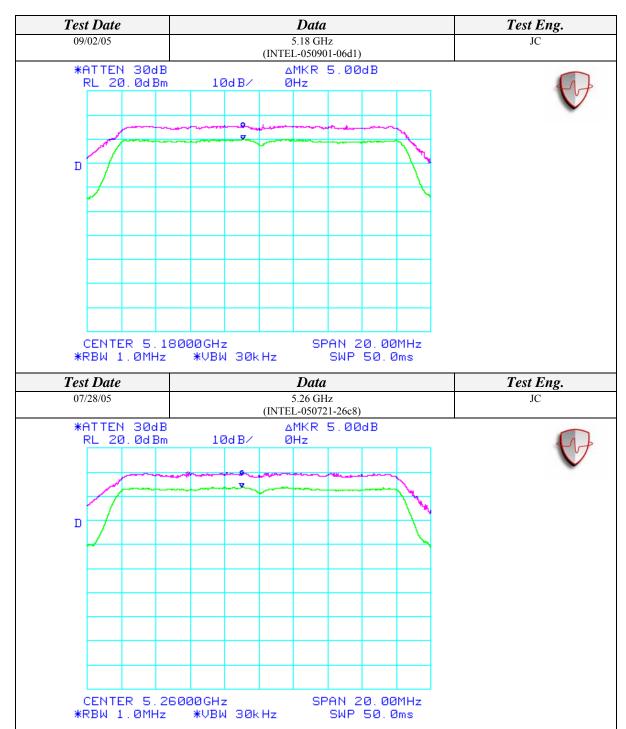
Peak Excursion Limits		
Frequency (MHz)	Limit (dB)	
5150-5350	13	

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Peak Excursion (Continued)

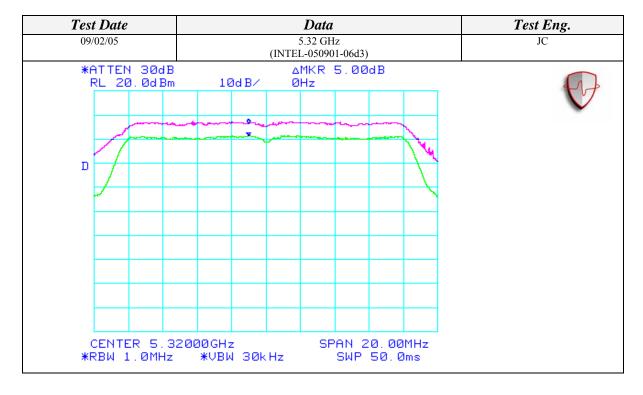


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Peak Excursion (Continued)

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CONDUCTED OUT OF BAND EMISSIONS

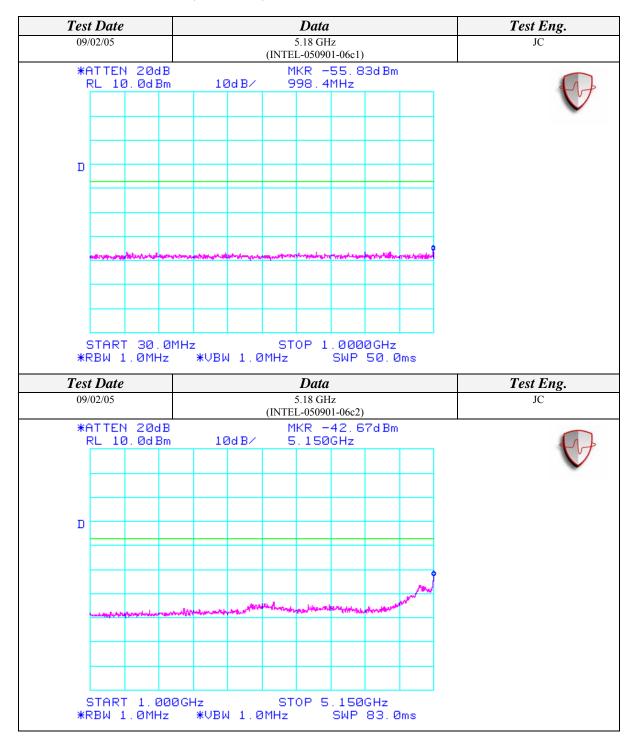
CLIENT:	Intel Corporation	DATE:	09/02/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-050901
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's	TEMPERATURE:	17 C
	mini PCI slot.	HUMIDITY:	52% RH
		TIME:	9:00 AM

Standard:	FCC CFR 47, Part 15.407(b)(1) and 15.407(b)(2)
Description:	For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
	For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.

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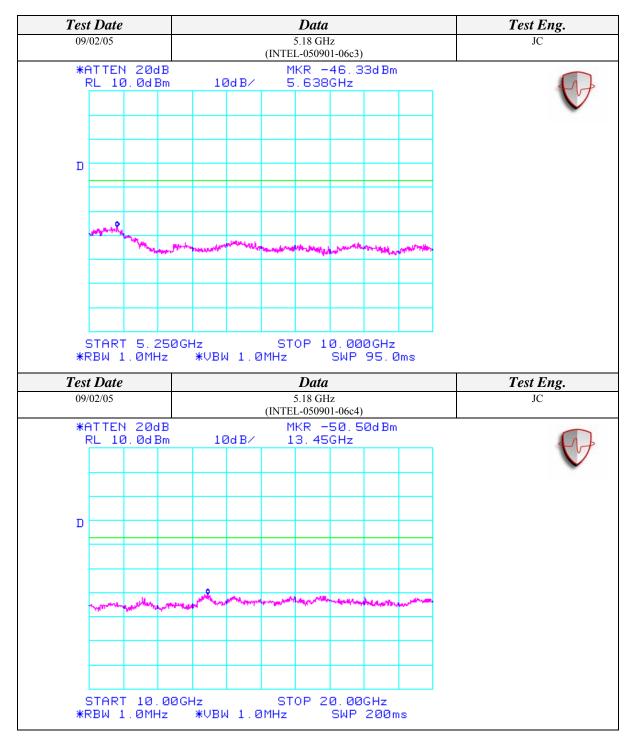
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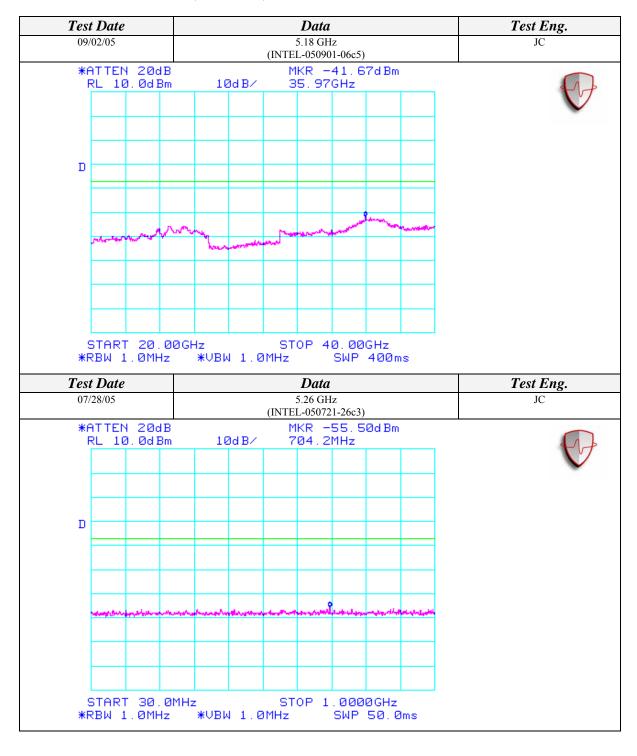
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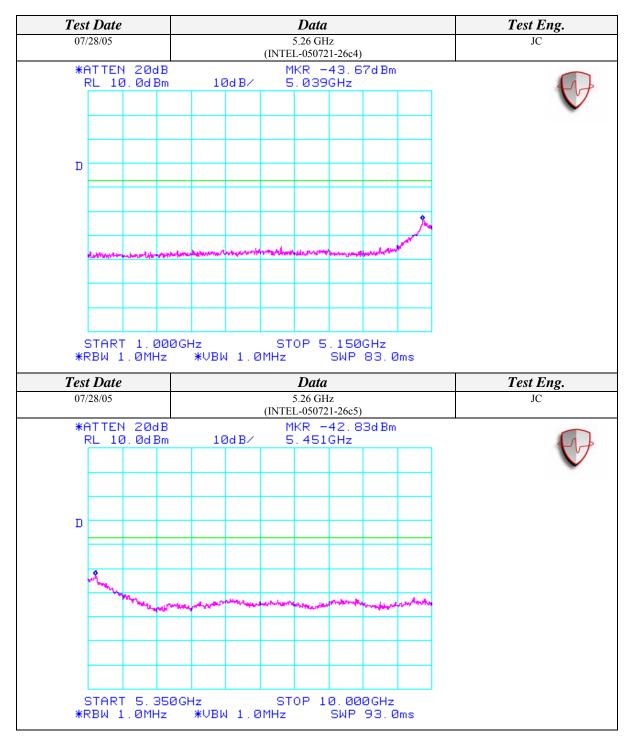
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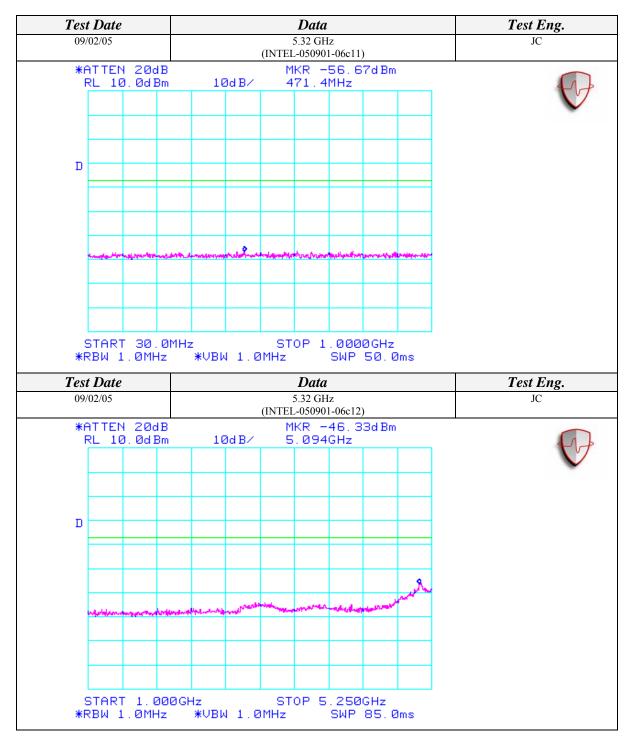
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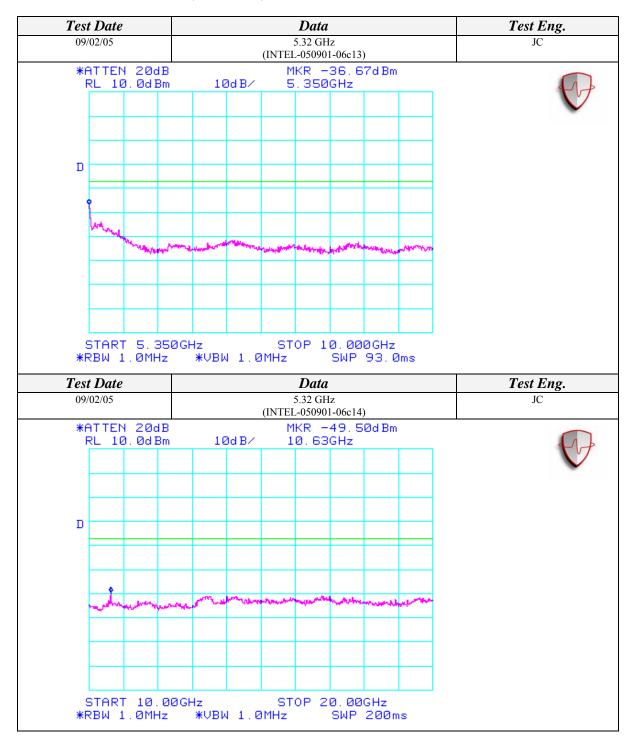
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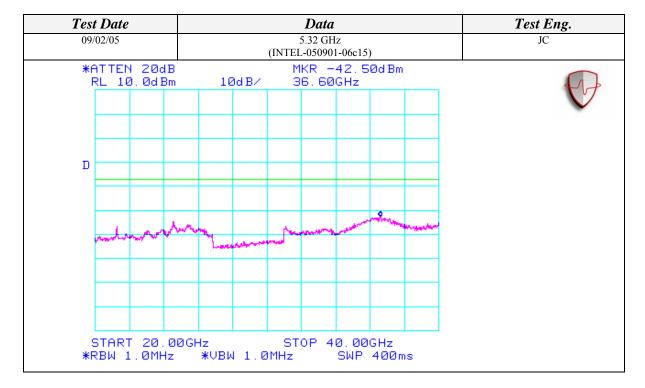


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Conducted Out Of Band Emissions (Continued)



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