



AEGIS LABS INC.



Modular Approval
Test Report
And Application for Grant of Equipment Authorization

Pertaining To:

Equipment Under Test	FCC ID:
Intel PRO/Wireless 2915ABG Network Connection, MN: WM3B2915ABG	PD9FJ3B2915ABG

Configuration
802.11a with a set of Yokowo (Mint), Yokowo (Pumpkin), Fujitsu (Emilia), & Nissei (Beira) 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: 2001 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
EC1-01 13280 Evening Creek Drive
San Diego, CA 92128

Contact(s): Mr. Robert Paxman

PREPARED BY:

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Test Report #: INTEL-040804F
Test Report Revision: None

	REPORT BODY	APPENDICES	TOTAL PAGES
		<i>A</i>	
PAGES	16	66	82

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Page 1 of 16
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

TABLE OF CONTENTS

SECTION	TITLE	PAGE
	COVER SHEET.....	01
	TABLE OF CONTENTS.....	02
1.0	CERTIFICATION OF TEST DATA.....	03
2.0	SUMMARY OF TEST RESULTS.....	04
3.0	ADMINISTRATIVE DATA AND TEST DESCRIPTION.....	05
4.0	DESCRIPTION OF EUT.....	07
4.1	EUT Description.....	07
4.2	EUT Configuration.....	08
4.3	List of EUT Sub-Assemblies and Host Equipment.....	09
4.4	I/O Cabling Diagram and Description.....	10
5.0	TEST EQUIPMENT AND TEST SETUPS.....	11
5.1	AC Power Line Conducted Emissions.....	11
5.2	Spurious Radiated Emissions.....	12
5.3	Conducted Emissions At The Antenna Port.....	12
5.4	Test and Measurement Equipment Used.....	13
6.0	SAMPLE CALCULATIONS.....	14
7.0	MODIFICATIONS AND RECOMMENDATIONS.....	16

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 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:

08/30/04

Rick Candelas
Staff Engineer
Aegis Labs, Inc.

Date:

Report Approved By:

08/30/04

Steve J. Kuiper
Quality Assurance Manager
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Date:

Page 3 of 16

Report Number: INTEL-040804F

FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

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
Operation in the 5.15-5.25 GHz Band			
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 = 16.90dBm (48.98mW) 5.24 GHz = 16.95dBm (49.55mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 2.67dBm
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	All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)
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			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.26 GHz = 38.58 MHz 5.32 GHz = 39.83MHz
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 = 21.00dBm (125.89mW) 5.32 GHz = 20.80dBm (120.23mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 7.00dBm 5.32 GHz = 6.33dBm
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	All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)
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

Page 4 of 16

Report Number: INTEL-040804F

FCC ID: PD9FJ3B2915ABG



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2.0 SUMMARY OF TEST RESULTS (Continued)

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
General Requirements For All Bands			
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 = 5.84 dB 5.26 GHz = 5.84 dB 5.32 GHz = 5.66 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

Page 5 of 16
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

DEVICE TESTED:	ITE Type: Intel PRO/Wireless 2915ABG Network Connection Model Number(s): WM3B2915ABG Serial Number: 344F96244ABC51962012 FCC ID: PD9FJ3B2915ABG
TEST DATE(S):	August 3-30, 2004
DATE EUT RECEIVED:	July 28, 2004
ORIGIN OF TEST SAMPLE(S):	Production Unit
RESPONSIBLE PARTY:	Intel Corporation EC1-01 13280 Evening Creek Drive San Diego, CA 92128
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.

Page 6 of 16
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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4.0 DESCRIPTION OF EUT

4.1 EUT Description

Equipment Under Test (EUT)	
Trade Name:	Intel PRO/Wireless 2915ABG Network Connection
Model Number:	WM3B2915ABG
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):	Yokowo (Mint) = 1.45 dBi @ 5 GHz Yokowo (Pumpkin) = 2.95 dBi @ 5 GHz Fujitsu (Emilia) = 1.18 dBi @ 5 GHz Nissei (Beira) 0.39 dBi @ 5 GHz
Transmit Output Power:	17 dBm (Typical) for 5.15-5.25 GHz 21 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 2915ABG Network Connection is an embedded 2.4 and 5 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 and connect to antennas internal to a notebook computer. 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.

Page 7 of 16

Report Number: INTEL-040804F

FCC ID: PD9FJ3B2915ABG



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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 Yokowo (Mint), Yokowo (Pumpkin), Fujitsu (Emilia), and Nissei (Biera) antennas can be found in Appendix A (Data Sheets)

For conducted emissions at the AC mains port and radiated emissions, the Hewlett Packard host computer was connected to a Zoom modem, Hewlett Packard printer, Dell monitor, Hewlett Packard keyboard, and Hewlett Packard mouse via its serial, parallel, video, keyboard, and mouse ports respectively.

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 (*CRTU Version 3.2.14.0000*).

Page 8 of 16

Report Number: INTEL-040804F

FCC ID: PD9FJ3B2915ABG



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

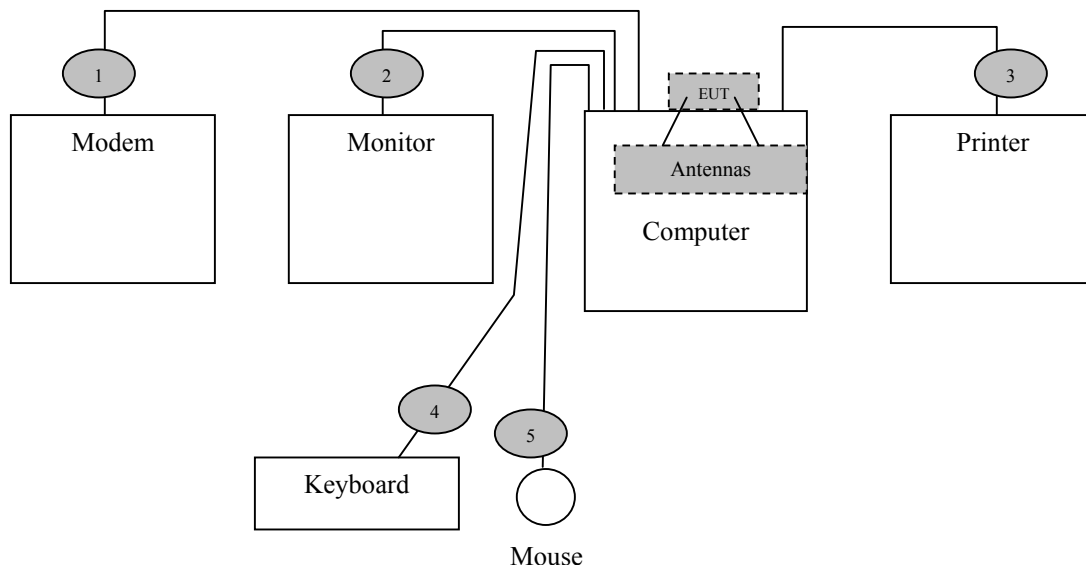
LIST OF EUT AND SUB-ASSEMBLIES			
Equipment Name	Manufacturer	Model Number	Serial Number
Intel PRO/Wireless 2915ABG Network Connection	Intel Corporation	WM3B2915ABG	344F96244AB C51962012
EUT Sub-Assemblies			
Main Multi Band Antenna	Yokowo Co., Ltd.	YCE-5008 (Mint)	N/A
Auxiliary Multi Band Antenna	Yokowo Co.	YCE-5008 (Mint)	N/A
Main Multi Band Antenna	Yokowo Co.	YCE-5008 (Pumpkin)	N/A
Auxiliary Multi Band Antenna	Yokowo Co.	YCE-5008 (Pumpkin)	N/A
Main Multi Band Antenna	Fujitsu	CP115412-01 (Emilia)	N/A
Auxiliary Multi Band Antenna	Fujitsu	CP115412-01 (Emilia)	N/A
Main Multi Band Antenna	Nissei Electric Co., Ltd.	2576965 (Biera)	N/A
Auxiliary Multi Band Antenna	Nissei Electric Co., Ltd.	2576957 (Biera)	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 Zoom modem. It has metallic DB-9 type connector at the computer end and a metallic DB-25 type connector at the modem end. 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 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 3: This is a 6-foot braid and foil shielded round cable connecting the Hewlett Packard host computer to the Hewlett Packard printer. It has a metallic DB-25 type connector at the computer end and a metallic centronics type connector at the printer end. 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 4: 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 5: 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. 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 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: 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.

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	03/29/05	1 Year
EMI Receiver – RF Filter Section	Hewlett Packard	85460A	3330A00138	03/29/05	1 Year
Attenuator - 5W-10dB	Pasternack	PE7014-10	N/A	11/03/04	1 Year
LISN (EUT)	FCC	FCC-LISN-50-25-2	9931	02/06/05	1 Year
LISN (Access)	Com-Power	LI-200	12019	01/25/05	1 Year
LISN (Access)	Com-Power	LI-200	12018	01/25/05	1 Year
Spectrum Analyzer	Agilent	8564EC	4046A00387	02/06/06	2 Years
Preamplifier	Miteq	JS42-01001800-25-10P	815980 & 884968 & 885090	12/09/04	2 Years
2400-2483.5 MHz Notch Filter	Micro-Tronics	BRM50702-02	003	04/21/06	2 Years
5150-5350 MHz Notch Filter	Microwave Circuits, Inc.	N0452502	3173-01	06/27/05	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 Preamplified Antenna – Horn	Custom Microwave	H042	001	11/04/04	1 Year
Power Meter	Anritsu	ML2487A	6K00001785	04/05/05	2 Years
Wide Bandwidth Sensor	Anritsu	MA2491A	31193	04/05/05	2 Years

Page 13 of 16

Report Number: INTEL-040804F

FCC ID: PD9FJ3B2915ABG



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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:

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

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. 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:

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

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

Page 1 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

AC POWER LINE CONDUCTED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	06/11/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040412-149
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot.	TEMPERATURE:	19 C
		HUMIDITY:	63% RH
		TIME:	11:00 AM

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 -4.75@ 0.4947 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, data rate, or antenna was used with the EUT; therefore the final testing was made with the EUT at the low channel, a data rate of 6 Mbps, and with the Yokowo (Mint) antennas.

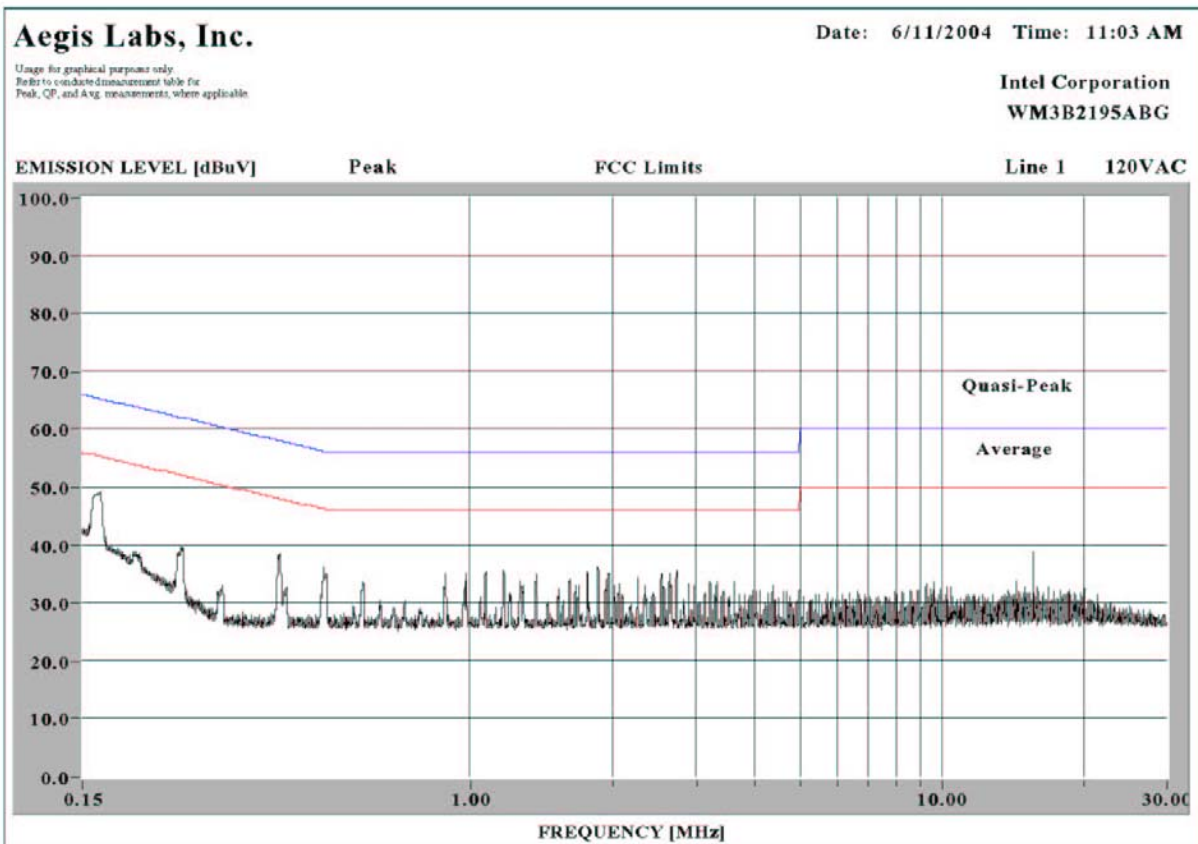
Page 2 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

AC Power Line Conducted Emissions Test Results (Continued)

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)
0.1653	49.90	PK	55.56	-5.66	65.56	-15.66
0.2490	42.30	PK	53.17	-10.87	63.17	-20.87
0.4014	42.10	PK	48.82	-6.72	58.82	-16.72
1.0872	39.30	PK	46.00	-6.70	56.00	-16.70
1.8600	38.80	PK	46.00	-7.20	56.00	-17.20
14.8400	40.50	PK	50.00	-9.50	60.00	-19.50



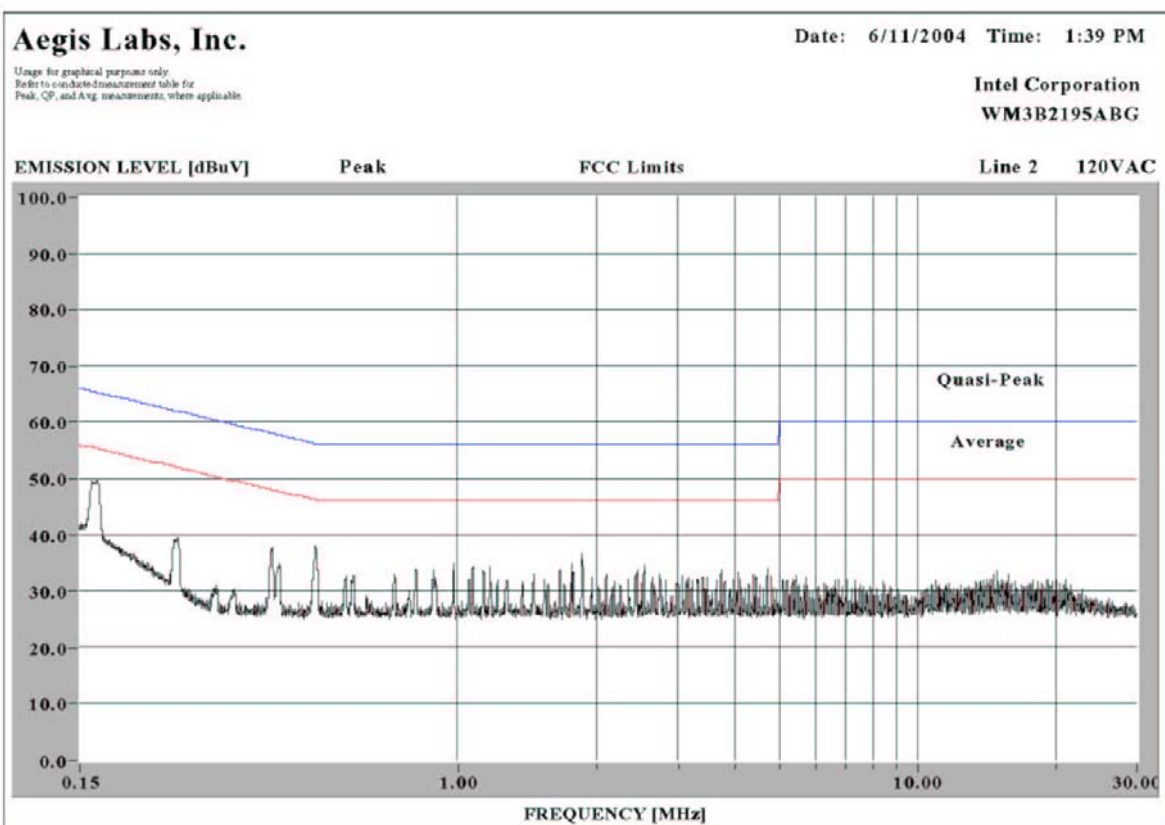
Page 3 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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)
0.1653	50.20	PK	55.56	-5.36	65.56	-15.36
0.2493	42.20	PK	53.16	-10.96	63.16	-20.96
0.3999	41.90	PK	48.86	-6.96	58.86	-16.96
0.4947	41.40	PK	46.15	-4.75	56.15	-14.75
1.8600	39.10	PK	46.00	-6.90	56.00	-16.90
15.2400	39.60	PK	50.00	-10.40	60.00	-20.40



Page 4 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

SPURIOUS RADIATED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	06/10/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040412-147
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot.	TEMPERATURE:	17 C
		HUMIDITY:	57% RH
		TIME:	9:30 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 -1.68@ 85.95 MHz (Vertical antenna polarization)

Radiated Limits	
Frequency (MHz)	Quasi-Peak Limit (dBuV) @ 10m
30-230	30
230-1000	37

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

Page 5 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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)	10 Meter Distance Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
33.38	38.10	400	270			34.42	0.97	17.88	10.46	32.99	40.00	-7.01
66.62	44.20	350	270			34.40	1.33	7.14	10.46	28.74	40.00	-11.26
85.95	48.50	400	135			34.41	1.56	7.57	10.46	33.68	40.00	-6.32
96.01	53.40	400	90	51.75	Q	34.41	1.66	9.38	10.46	38.84	43.50	-4.66
99.59	51.30	400	270	50.81	Q	34.41	1.70	10.03	10.46	38.58	43.50	-4.92
133.35	37.60	350	180			34.34	1.95	14.43	10.46	30.10	43.50	-13.40
166.50	40.20	400	270			34.34	2.24	15.70	10.46	34.25	43.50	-9.25
200.26	35.80	400	270			34.31	2.40	17.00	10.46	31.36	43.50	-12.14
233.10	37.60	400	270			34.24	2.63	17.50	10.46	33.95	46.00	-12.05
267.05	40.20	350	90			34.21	2.84	18.59	10.46	37.88	46.00	-8.12
299.82	43.30	300	180			34.14	3.00	19.70	10.46	42.31	46.00	-3.69
329.37	40.90	250	135			34.11	3.18	14.99	10.46	35.42	46.00	-10.58
336.08	43.60	300	90			34.10	3.22	15.06	10.46	38.24	46.00	-7.76
343.30	41.60	300	90			34.09	3.26	15.13	10.46	36.36	46.00	-9.64
357.98	42.20	300	45			34.07	3.33	15.15	10.46	37.07	46.00	-8.93
366.49	49.90	300	45	48.17	Q	34.06	3.37	15.10	10.46	43.04	46.00	-2.96
384.08	48.70	200	225	47.63	Q	34.04	3.44	15.10	10.46	42.59	46.00	-3.41
430.06	39.40	200	270			33.96	3.62	16.22	10.46	35.74	46.00	-10.26
500.07	43.30	200	45			33.86	4.00	18.80	10.46	42.70	46.00	-3.30

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

Page 6 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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)	10 Meter Distance Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
33.34	38.50	100	315			34.42	0.97	17.46	10.46	32.97	40.00	-7.03
66.66	50.40	100	45			34.40	1.33	7.37	10.46	35.16	40.00	-4.84
85.95	53.00	100	315	52.82	Q	34.41	1.56	7.89	10.46	38.32	40.00	-1.68
96.01	53.70	100	270	52.00	Q	34.41	1.66	9.10	10.46	38.81	43.50	-4.69
99.49	53.30	100	270	51.81	Q	34.41	1.69	9.45	10.46	39.00	43.50	-4.50
133.55	48.60	100	45	47.39	Q	34.34	1.95	13.10	10.46	38.56	43.50	-4.94
166.70	40.50	100	90			34.34	2.24	15.40	10.46	34.26	43.50	-9.24
200.27	40.50	100	0			34.31	2.40	17.11	10.46	36.16	43.50	-7.34
232.57	36.10	100	315			34.24	2.63	18.19	10.46	33.14	46.00	-12.86
267.03	43.80	100	0			34.21	2.84	19.24	10.46	42.13	46.00	-3.87
299.82	42.50	100	315			34.14	3.00	20.59	10.46	42.41	46.00	-3.59
329.37	37.50	100	270			34.11	3.18	15.61	10.46	32.64	46.00	-13.36
336.06	43.80	100	0			34.10	3.22	15.54	10.46	38.91	46.00	-7.09
366.76	47.20	100	45			34.06	3.37	15.33	10.46	42.30	46.00	-3.70
384.01	44.20	100	45			34.04	3.44	15.66	10.46	39.72	46.00	-6.28
432.13	40.60	100	180			33.96	3.63	16.72	10.46	37.45	46.00	-8.55
500.09	41.50	100	90			33.86	4.00	18.70	10.46	40.80	46.00	-5.20

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



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

CLIENT:	Intel Corporation	DATE:	08/03/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040803
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot in 802.11a (5150-5350 MHz) mode with the Yokowo (Pumpkin) antennas.	TEMPERATURE:	22 C
		HUMIDITY:	55% RH
		TIME:	10:15 AM

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)

Page 8 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Fundamental Measurements in 802.11a mode (5150-5350 MHz)

Channels 32, 56, & 64

Continuous TX at MAIN Antenna port with Yokowo (Pumpkin) Antennas

Aegis Labs, Inc. File #: INTEL-040803-02

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
5180.00	62.50	100	225				4.94	35.02	102.46		
5180.00				52.24	A		4.94	35.02	92.20		
5240.00	62.00	100	225				4.97	34.96	101.93		
5240.00				51.96	A		4.97	34.96	91.89		
5260.00	66.17	100	225				4.97	34.94	106.08		
5260.00				57.28	A		4.97	34.94	97.19		
5320.00	65.50	100	225				5.00	34.88	105.38		
5320.00				56.44	A		5.00	34.88	96.32		

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
5180.00	61.33	100	270				4.94	35.02	101.29		
5180.00				51.32	A		4.94	35.02	91.28		
5240.00	60.83	100	270				4.97	34.96	100.76		
5240.00				50.92	A		4.97	34.96	90.85		
5260.00	65.50	100	270				4.97	34.94	105.41		
5260.00				56.97	A		4.97	34.94	96.88		
5320.00	65.00	100	270				5.00	34.88	104.88		
5320.00				55.86	A		5.00	34.88	95.74		

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

Page 9 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Band Edge Field Strength Calculations in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous TX at MAIN Antenna port with Yokowo (Pumpkin) Antennas
Aegis Labs, Inc. File #: INTEL-040803-02

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
5150.00									50.62	74.00	-23.38
5150.00					A				39.87	54.00	-14.13
5120.30									52.29	74.00	-21.71
5120.30					A				39.36	54.00	-14.64
5350.00									61.55	74.00	-12.45
5350.00					A				45.32	54.00	-8.68
5395.50									55.71	74.00	-18.29
5395.50					A				42.99	54.00	-11.01
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
5150.00									49.45	74.00	-24.55
5150.00					A				38.95	54.00	-15.05
5120.30									51.12	74.00	-22.88
5120.30					A				38.44	54.00	-15.56
5350.00									61.05	74.00	-12.95
5350.00					A				44.74	54.00	-9.26
5395.50									55.21	74.00	-18.79
5395.50					A				42.41	54.00	-11.59

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:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

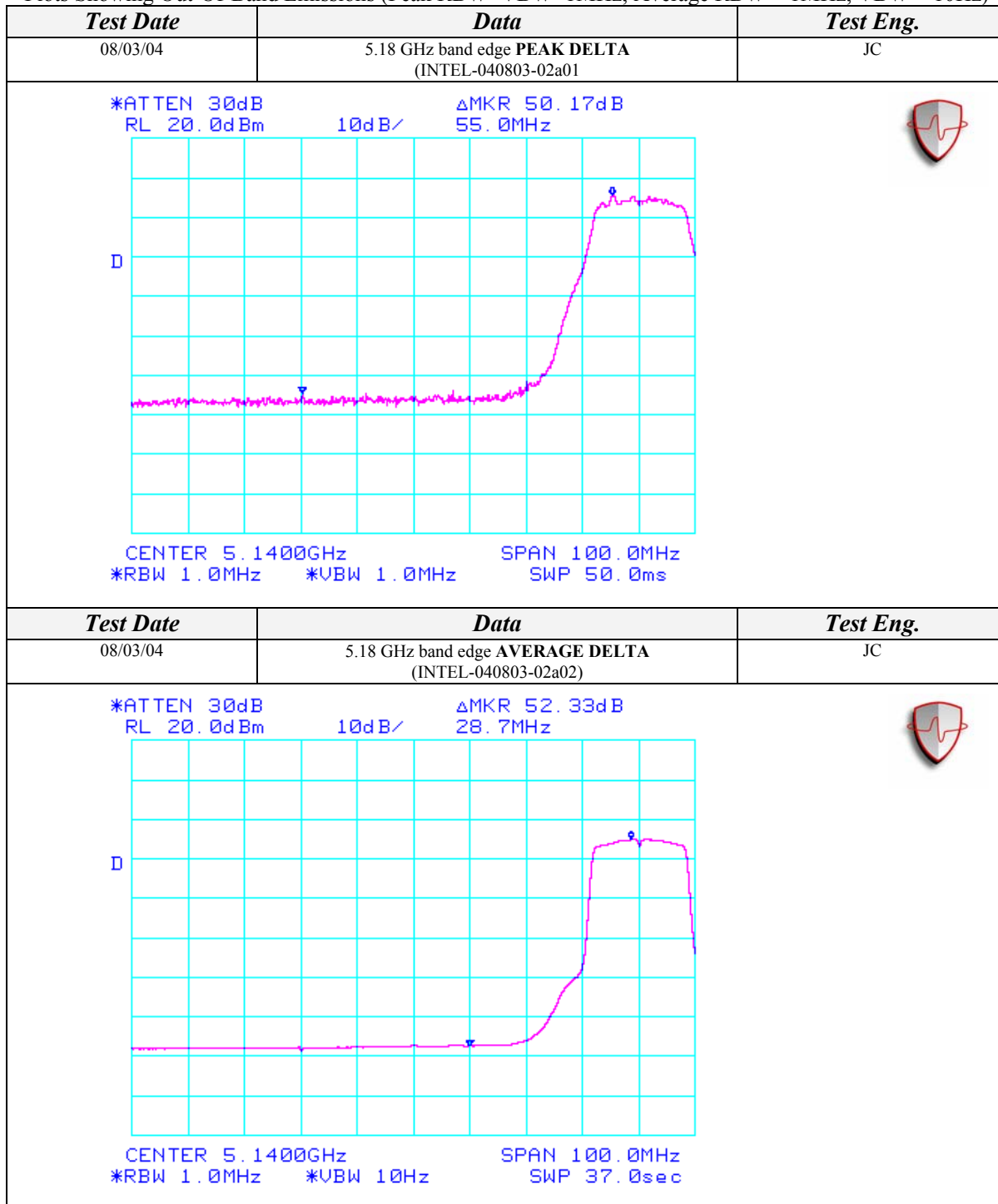
Page 10 of 66 (Appendix A)
 Report Number: INTEL-040804F
 FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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



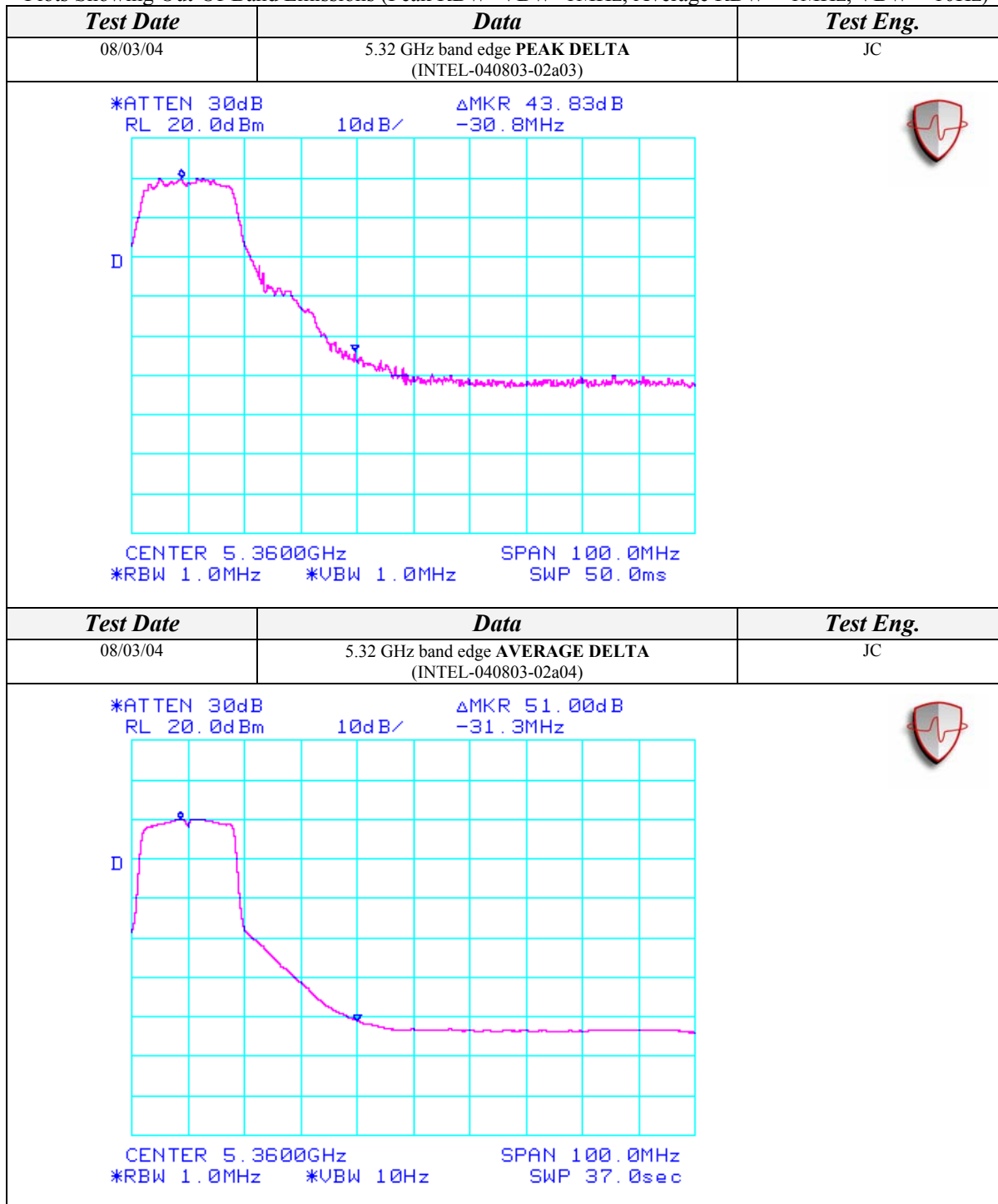
Page 11 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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



Page 12 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous TX at MAIN Antenna port with Yokowo (Pumpkin) Antennas
Aegis Labs, Inc. File #: INTEL-040803-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamplifier Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 36 (5.18 GHz)											
3453.29	52.17	100	135			43.15	3.93	30.29	43.24	68.00	-24.76
6906.54	55.17	100	135			43.84	6.10	39.50	56.93	68.00	-11.07
10360.01	50.33	100	135			43.46	7.37	39.44	53.69	68.00	-14.31
13813.36	50.50	100	135			43.65	8.28	45.23	60.35	68.00	-7.65
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.72	53.67	100	135			43.17	3.94	30.32	44.76	68.00	-23.24
7013.26	55.33	200	135			43.84	6.17	40.09	57.75	68.00	-10.25
10519.88	49.83	100	135			43.51	7.49	39.53	53.34	68.00	-14.66
14026.62	49.50	100	135			43.86	8.33	45.81	59.79	68.00	-8.21
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	54.83	100	135			43.17	3.97	30.42	46.05	68.00	-21.95
7093.33	55.50	200	135			43.81	6.18	40.01	57.87	68.00	-10.13
10639.98	49.67	100	135			43.55	7.52	39.70	53.33	74.00	-20.67
10639.98				38.46	A	43.55	7.52	39.70	42.12	54.00	-11.88
14186.58	50.00	100	135			43.96	8.41	45.30	59.75	68.00	-8.25

Page 13 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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 36 (5.18 GHz)											
3453.29	51.00	100	135			43.15	3.93	30.49	42.27	68.00	-25.73
6906.59	54.67	100	135			43.84	6.10	39.91	56.84	68.00	-11.16
10359.93	49.67	100	135			43.46	7.37	39.96	53.55	68.00	-14.45
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.67	51.33	100	135			43.17	3.94	30.51	42.62	68.00	-25.38
7013.32	53.00	100	135			43.84	6.17	40.57	55.91	68.00	-12.09
10519.92	49.50	100	135			43.51	7.49	40.08	53.56	68.00	-14.44
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	51.00	100	135			43.17	3.97	30.58	42.39	68.00	-25.61
7093.33	52.83	100	135			43.81	6.18	40.41	55.61	68.00	-12.39
10639.98	50.00	100	135			43.55	7.52	39.99	53.96	74.00	-20.04
10639.98				38.61	A	43.55	7.52	39.99	42.57	54.00	-11.43

Page 14 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous RX at MAIN Antenna port with Yokowo (Pumpkin) Antennas
Aegis Labs, Inc. File #: INTEL-040803-04*

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 36 (5.18 GHz)											
3453.31	53.67	100	135			43.15	3.93	30.29	44.74	80.00	-35.26
3453.31				47.10	A	43.15	3.93	30.29	38.17	60.00	-21.83
6906.66	55.33	100	135			43.84	6.10	39.50	57.09	80.00	-22.91
6906.66				49.46	A	43.84	6.10	39.50	51.22	60.00	-8.78
10359.95	51.17	100	135			43.46	7.37	39.44	54.53	80.00	-25.47
10359.95				40.41	A	43.46	7.37	39.44	43.77	60.00	-16.23
13813.25	49.67	100	135			43.65	8.28	45.23	59.52	80.00	-20.48
13813.25				38.39	A	43.65	8.28	45.23	48.24	60.00	-11.76
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.66	54.17	100	135			43.17	3.94	30.32	45.26	80.00	-34.74
3506.66				48.69	A	43.17	3.94	30.32	39.78	60.00	-20.22
7013.33	56.50	100	135			43.84	6.17	40.09	58.92	80.00	-21.08
7013.33				51.68	A	43.84	6.17	40.09	54.10	60.00	-5.90
10519.94	49.83	100	135			43.51	7.49	39.53	53.34	80.00	-26.66
10519.94				39.46	A	43.51	7.49	39.53	42.97	60.00	-17.03
14026.53	49.17	100	135			43.86	8.33	45.82	59.46	80.00	-20.54
14026.53				37.36	A	43.86	8.33	45.82	47.65	60.00	-12.35
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.72	55.17	100	135			43.17	3.97	30.42	46.40	80.00	-33.60
3546.72				50.35	A	43.17	3.97	30.42	41.58	60.00	-18.42
7093.27	55.17	100	135			43.81	6.18	40.01	57.54	80.00	-22.46
7093.27				50.23	A	43.81	6.18	40.01	52.60	60.00	-7.40
10639.92	50.00	100	135			43.55	7.52	39.70	53.66	80.00	-26.34
10639.92				39.13	A	43.55	7.52	39.70	42.79	60.00	-17.21
14186.64	49.33	100	135			43.96	8.41	45.30	59.08	80.00	-20.92
14186.64				37.58	A	43.96	8.41	45.30	47.33	60.00	-12.67

Page 15 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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 36 (5.18 GHz)											
3453.30	50.00	100	135			43.15	3.93	30.49	41.27	80.00	-38.73
3453.30				39.68	A	43.15	3.93	30.49	30.95	60.00	-29.05
6906.67	52.17	100	135			43.84	6.10	39.91	54.34	80.00	-25.66
6906.67				42.23	A	43.84	6.10	39.91	44.40	60.00	-15.60
10359.98	50.50	100	135			43.46	7.37	39.96	54.38	80.00	-25.62
10359.98				39.99	A	43.46	7.37	39.96	43.87	60.00	-16.13
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.68	51.67	100	135			43.17	3.94	30.51	42.96	80.00	-37.04
3506.68				43.33	A	43.17	3.94	30.51	34.62	60.00	-25.38
7013.36	52.67	100	135			43.84	6.17	40.57	55.58	80.00	-24.42
7013.36				43.96	A	43.84	6.17	40.57	46.87	60.00	-13.13
10519.91	49.33	100	135			43.51	7.49	40.08	53.39	80.00	-26.61
10519.95				38.29	A	43.51	7.49	40.08	42.35	60.00	-17.65
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	53.00	100	135			43.17	3.97	30.58	44.39	80.00	-35.61
3546.66				45.46	A	43.17	3.97	30.58	36.85	60.00	-23.15
7093.33	52.17	100	135			43.81	6.18	40.41	54.95	80.00	-25.05
7093.33				43.10	A	43.81	6.18	40.41	45.88	60.00	-14.12
10639.97	49.33	100	135			43.55	7.52	39.99	53.29	80.00	-26.71
10639.97				38.43	A	43.55	7.52	39.99	42.39	60.00	-17.61

Page 16 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

CLIENT:	Intel Corporation	DATE:	08/04/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040803
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot in 802.11a (5150-5350 MHz) mode with the Yokowo (Mint) antennas.	TEMPERATURE:	31 C
		HUMIDITY:	36% RH
		TIME:	3:45 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)

Page 17 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Fundamental Measurements in 802.11a mode (5150-5350 MHz)

Channels 32, 56, & 64

Continuous TX at MAIN Antenna port with Yokowo (Mint) Antennas

Aegis Labs, Inc. File #: INTEL-040803-06

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
5180.00	60.50	100	225				4.94	35.02	100.46		
5180.00				50.47	A		4.94	35.02	90.43		
5240.00	60.17	100	225				4.97	34.96	100.10		
5240.00				50.59	A		4.97	34.96	90.52		
5260.00	64.33	100	225				4.97	34.94	104.24		
5260.00				54.63	A		4.97	34.94	94.54		
5320.00	65.33	100	225				5.00	34.88	105.21		
5320.00				56.21	A		5.00	34.88	96.09		

RADIATED EMISSIONS - Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
5180.00	59.17	125	270				4.94	35.02	99.13		
5180.00				48.97	A		4.94	35.02	88.93		
5240.00	50.50	125	270				4.97	34.96	90.43		
5240.00				49.29	A		4.97	34.96	89.22		
5260.00	63.00	125	270				4.97	34.94	102.91		
5260.00				53.43	A		4.97	34.94	93.34		
5320.00	63.33	125	270				5.00	34.88	103.21		
5320.00				54.29	A		5.00	34.88	94.17		

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

Page 18 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Band Edge Field Strength Calculations in 802.11a mode (5150-5350 MHz)

Channels 32, 56, & 64

Continuous TX at MAIN Antenna port with Yokowo (Mint) Antennas

Aegis Labs, Inc. File #: INTEL-040803-06

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
5150.00								48.62	74.00	-25.38
5150.00					A			38.10	54.00	-15.90
5120.30								50.29	74.00	-23.71
5120.30					A			37.59	54.00	-16.41
5350.00								61.38	74.00	-12.62
5350.00					A			45.09	54.00	-8.91
5395.50								55.54	74.00	-18.46
5395.50					A			42.76	54.00	-11.24

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
5150.00								47.29	74.00	-26.71
5150.00					A			36.60	54.00	-17.40
5120.30								48.96	74.00	-25.04
5120.30					A			36.09	54.00	-17.91
5350.00								59.38	74.00	-14.62
5350.00					A			43.17	54.00	-10.83
5395.50								53.54	74.00	-20.46
5395.50					A			40.84	54.00	-13.16

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:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

Page 19 of 66 (Appendix A)

Report Number: INTEL-040804F

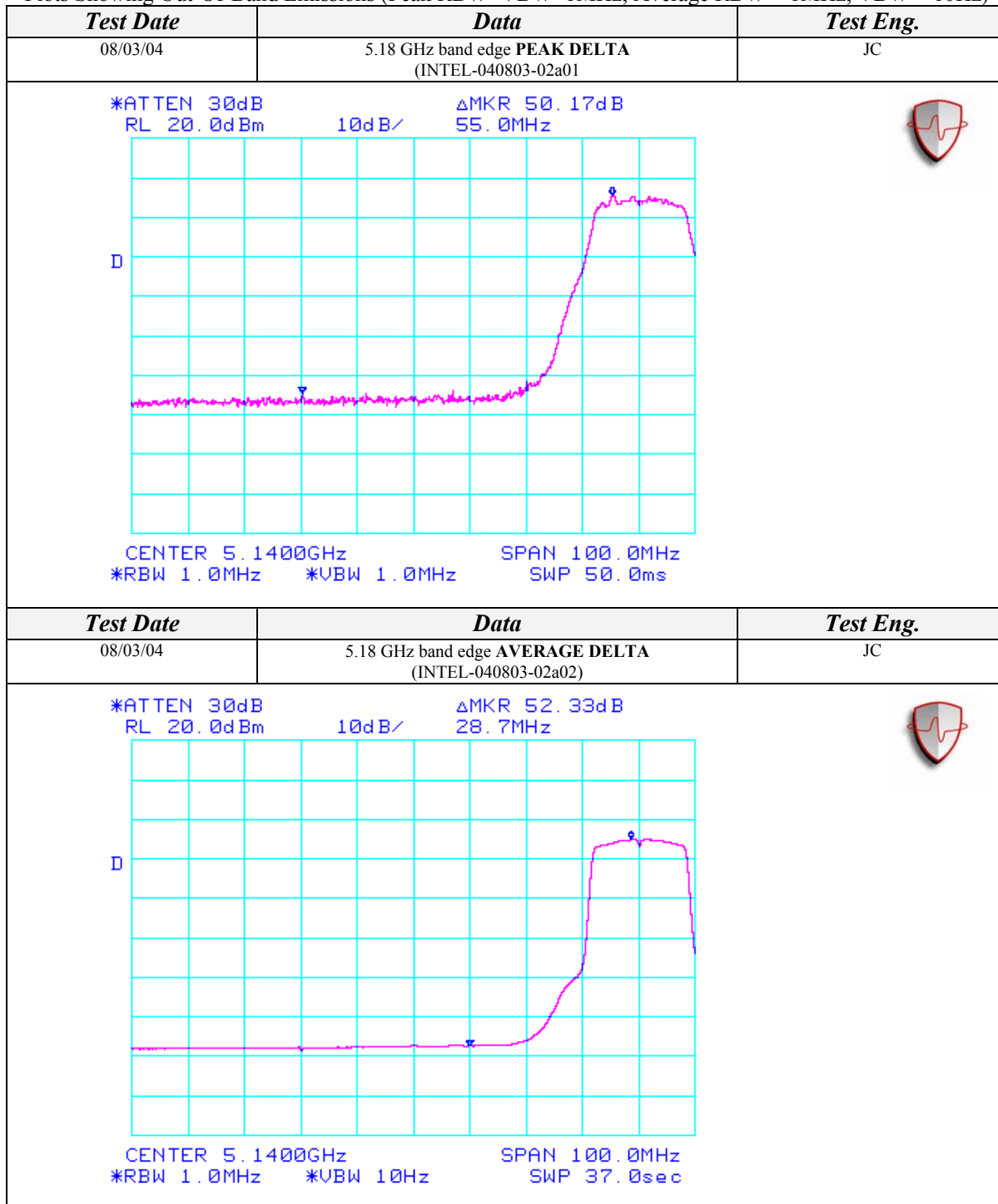
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AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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



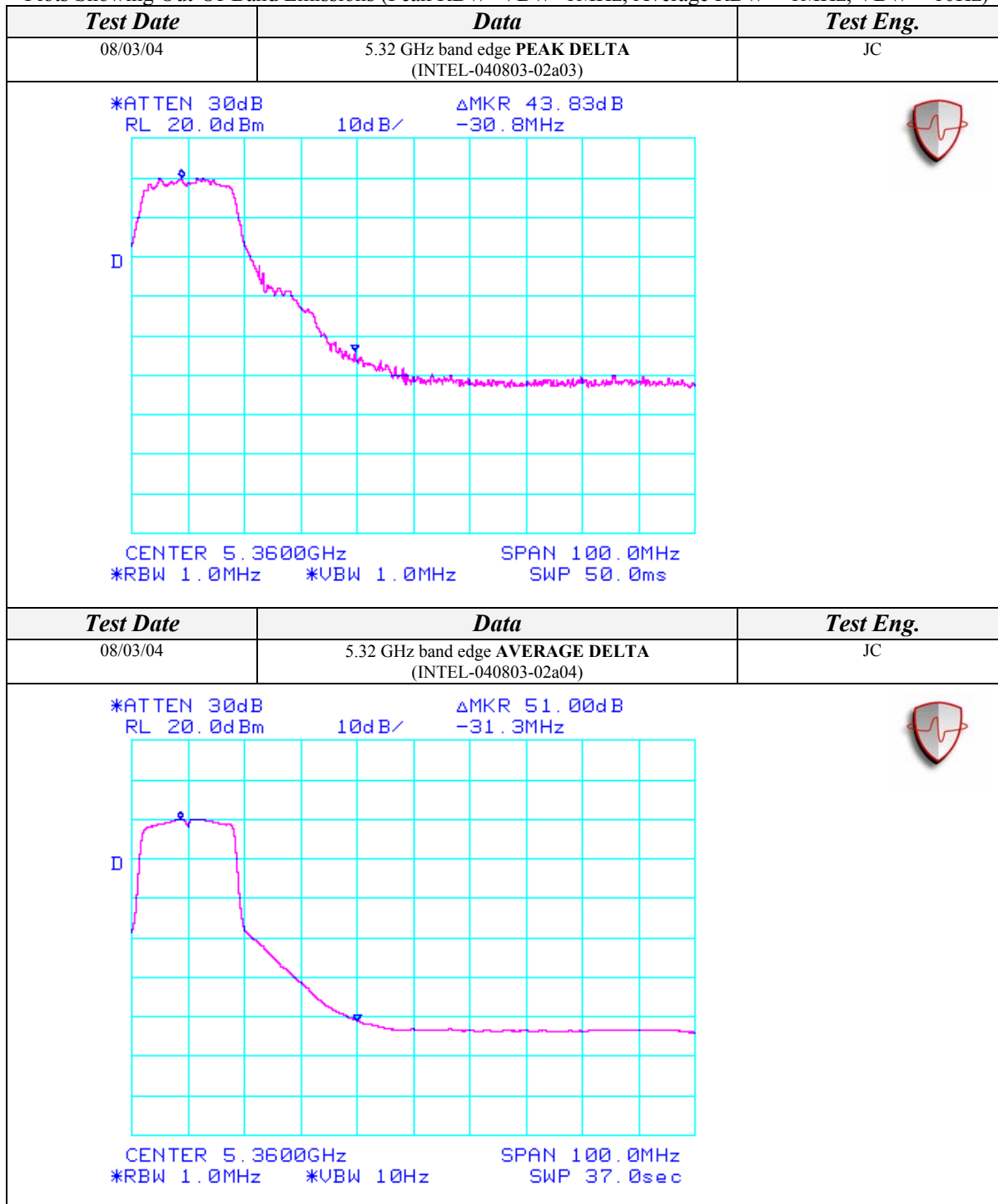
Page 20 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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



Page 21 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous TX at MAIN Antenna port with Yokowo (Mint) Antennas
Aegis Labs, Inc. File #: INTEL-040803-08*

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 36 (5.18 GHz)											
3453.29	52.33	100	135			43.15	3.93	30.29	43.40	68.00	-24.60
6906.54	60.50	100	135			43.84	6.10	39.50	62.26	68.00	-5.74
10360.01	50.67	100	135			43.46	7.37	39.44	54.03	68.00	-13.97
13813.36	49.50	100	135			43.65	8.28	45.23	59.35	68.00	-8.65
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.67	54.50	100	135			43.17	3.94	30.32	45.59	68.00	-22.41
7013.26	55.00	100	135			43.84	6.17	40.09	57.42	68.00	-10.58
10519.88	49.33	100	135			43.51	7.49	39.53	52.84	68.00	-15.16
14026.62	48.83	100	135			43.86	8.33	45.81	59.12	68.00	-8.88
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	54.33	100	135			43.17	3.97	30.42	45.55	68.00	-22.45
7093.33	56.33	100	135			43.81	6.18	40.01	58.70	68.00	-9.30
10639.98	49.50	100	135			43.55	7.52	39.70	53.16	74.00	-20.84
10639.98				36.75	A	43.55	7.52	39.70	40.41	54.00	-13.59
14186.58	50.00	100	135			43.96	8.41	45.30	59.75	68.00	-8.25

Page 22 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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 36 (5.18 GHz)											
3453.29	50.00	100	225			43.15	3.93	30.49	41.27	68.00	-26.73
6906.59	56.17	100	270			43.84	6.10	39.91	58.34	68.00	-9.66
10359.93	50.67	100	135			43.46	7.37	39.96	54.55	68.00	-13.45
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.67	50.17	100	225			43.17	3.94	30.51	41.46	68.00	-26.54
7013.32	54.50	100	135			43.84	6.17	40.57	57.41	68.00	-10.59
10519.92	48.67	100	135			43.51	7.49	40.08	52.73	68.00	-15.27
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	50.17	100	225			43.17	3.97	30.58	41.56	68.00	-26.44
7093.33	53.83	100	135			43.81	6.18	40.41	56.61	68.00	-11.39
10639.98	48.83	100	135			43.55	7.52	39.99	52.79	74.00	-21.21
10639.98				36.81	A	43.55	7.52	39.99	40.77	54.00	-13.23

Page 23 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous RX at MAIN Antenna port with Yokowo (Mint) Antennas
Aegis Labs, Inc. File #: INTEL-040803-08*

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 36 (5.18 GHz)											
3453.31	52.67	100	135			43.15	3.93	30.29	43.74	80.00	-36.26
3453.31				45.10	A	43.15	3.93	30.29	36.17	60.00	-23.83
6906.66	55.00	100	135			43.84	6.10	39.50	56.76	80.00	-23.24
6906.66				48.94	A	43.84	6.10	39.50	50.70	60.00	-9.30
10359.95	51.50	100	135			43.46	7.37	39.44	54.86	80.00	-25.14
10359.95				39.83	A	43.46	7.37	39.44	43.19	60.00	-16.81
13813.25	50.00	100	135			43.65	8.28	45.23	59.85	80.00	-20.15
13813.25				36.73	A	43.65	8.28	45.23	46.58	60.00	-13.42
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.66	52.67	100	135			43.17	3.94	30.32	43.76	80.00	-36.24
3506.66				44.53	A	43.17	3.94	30.32	35.62	60.00	-24.38
7013.33	56.33	100	135			43.84	6.17	40.09	58.75	80.00	-21.25
7013.33				50.64	A	43.84	6.17	40.09	53.06	60.00	-6.94
10519.94	50.33	100	135			43.51	7.49	39.53	53.84	80.00	-26.16
10519.94				39.37	A	43.51	7.49	39.53	42.88	60.00	-17.12
14026.53	49.50	100	135			43.86	8.33	45.82	59.79	80.00	-20.21
14026.53				37.46	A	43.86	8.33	45.82	47.75	60.00	-12.25
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.72	54.00	100	135			43.17	3.97	30.42	45.23	80.00	-34.77
3546.72				47.96	A	43.17	3.97	30.42	39.19	60.00	-20.81
7093.27	56.67	100	135			43.81	6.18	40.01	59.04	80.00	-20.96
7093.27				51.18	A	43.81	6.18	40.01	53.55	60.00	-6.45
10639.92	50.17	100	135			43.55	7.52	39.70	53.83	80.00	-26.17
10639.92				39.21	A	43.55	7.52	39.70	42.87	60.00	-17.13
14186.64	49.50	100	135			43.96	8.41	45.30	59.25	80.00	-20.75
14186.64				36.86	A	43.96	8.41	45.30	46.61	60.00	-13.39

Page 24 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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 36 (5.18 GHz)											
3453.30	49.83	100	135			43.15	3.93	30.49	41.10	80.00	-38.90
3453.30				37.67	A	43.15	3.93	30.49	28.94	60.00	-31.06
6906.67	51.33	100	135			43.84	6.10	39.91	53.50	80.00	-26.50
6906.67				39.93	A	43.84	6.10	39.91	42.10	60.00	-17.90
10359.98	50.83	100	135			43.46	7.37	39.96	54.71	80.00	-25.29
10359.98				37.23	A	43.46	7.37	39.96	41.11	60.00	-18.89
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.68	49.83	100	135			43.17	3.94	30.51	41.12	80.00	-38.88
3506.68				36.23	A	43.17	3.94	30.51	27.52	60.00	-32.48
7013.36	52.17	100	135			43.84	6.17	40.57	55.08	80.00	-24.92
7013.36				42.39	A	43.84	6.17	40.57	45.30	60.00	-14.70
10519.91	49.67	100	135			43.51	7.49	40.08	53.73	80.00	-26.27
10519.95				37.46	A	43.51	7.49	40.08	41.52	60.00	-18.48
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	50.83	100	135			43.17	3.97	30.58	42.22	80.00	-37.78
3546.66				38.79	A	43.17	3.97	30.58	30.18	60.00	-29.82
7093.33	51.00	100	135			43.81	6.18	40.41	53.78	80.00	-26.22
7093.33				38.10	A	43.81	6.18	40.41	40.88	60.00	-19.12
10639.97	50.00	100	135			43.55	7.52	39.99	53.96	80.00	-26.04
10639.97				36.92	A	43.55	7.52	39.99	40.88	60.00	-19.12



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

CLIENT:	Intel Corporation	DATE:	08/06/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040803
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot in 802.11a (5150-5350 MHz) mode with the Fujitsu (Emilia) antennas.	TEMPERATURE:	29 C
		HUMIDITY:	33% RH
		TIME:	11:00 AM

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)

Page 26 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous TX at MAIN Antenna port with Fujitsu (Emilia) Antennas
Aegis Labs, Inc. File #: INTEL-040803-10*

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
5180.00	55.67	200	135				4.94	35.02	95.63		
5180.00				45.20	A		4.94	35.02	85.16		
5240.00	57.67	200	135				4.97	34.96	97.60		
5240.00				47.76	A		4.97	34.96	87.69		
5260.00	61.83	200	135				4.97	34.94	101.74		
5260.00				52.42	A		4.97	34.94	92.33		
5320.00	60.67	200	135				5.00	34.88	100.55		
5320.00				52.22	A		5.00	34.88	92.10		

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
5180.00	61.33	125	45				4.94	35.02	101.29		
5180.00				51.09	A		4.94	35.02	91.05		
5240.00	62.00	125	45				4.97	34.96	101.93		
5240.00				52.89	A		4.97	34.96	92.82		
5260.00	62.50	125	45				4.97	34.94	102.41		
5260.00				52.85	A		4.97	34.94	92.76		
5320.00	62.67	100	315				5.00	34.88	102.55		
5320.00				53.92	A		5.00	34.88	93.80		

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

Page 27 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Band Edge Field Strength Calculations in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous TX at MAIN Antenna port with Fujitsu (Emilia) Antennas
Aegis Labs, Inc. File #: INTEL-040803-10

RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamplifier Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
5150.00									43.79	74.00	-30.21
5150.00					A				32.83	54.00	-21.17
5120.30									45.46	74.00	-28.54
5120.30					A				32.32	54.00	-21.68
5350.00									56.72	74.00	-17.28
5350.00					A				41.10	54.00	-12.90
5395.50									50.88	74.00	-23.12
5395.50					A				38.77	54.00	-15.23
RADIATED EMISSIONS – Vertical Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamplifier Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
5150.00									49.45	74.00	-24.55
5150.00					A				38.72	54.00	-15.28
5120.30									51.12	74.00	-22.88
5120.30					A				38.21	54.00	-15.79
5350.00									58.72	74.00	-15.28
5350.00					A				42.80	54.00	-11.20
5395.50									52.88	74.00	-21.12
5395.50					A				40.47	54.00	-13.53

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:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

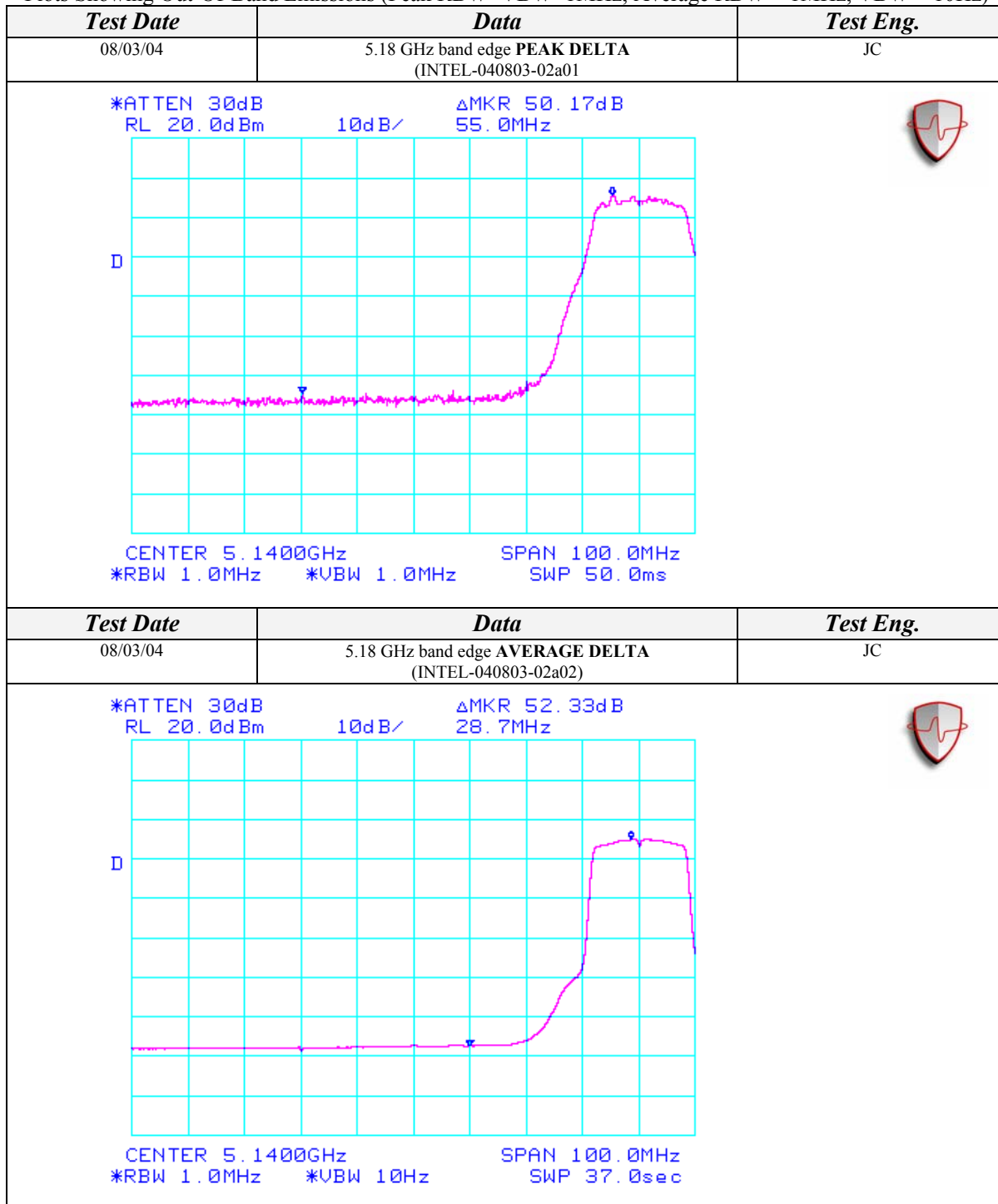
Page 28 of 66 (Appendix A)
 Report Number: INTEL-040804F
 FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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



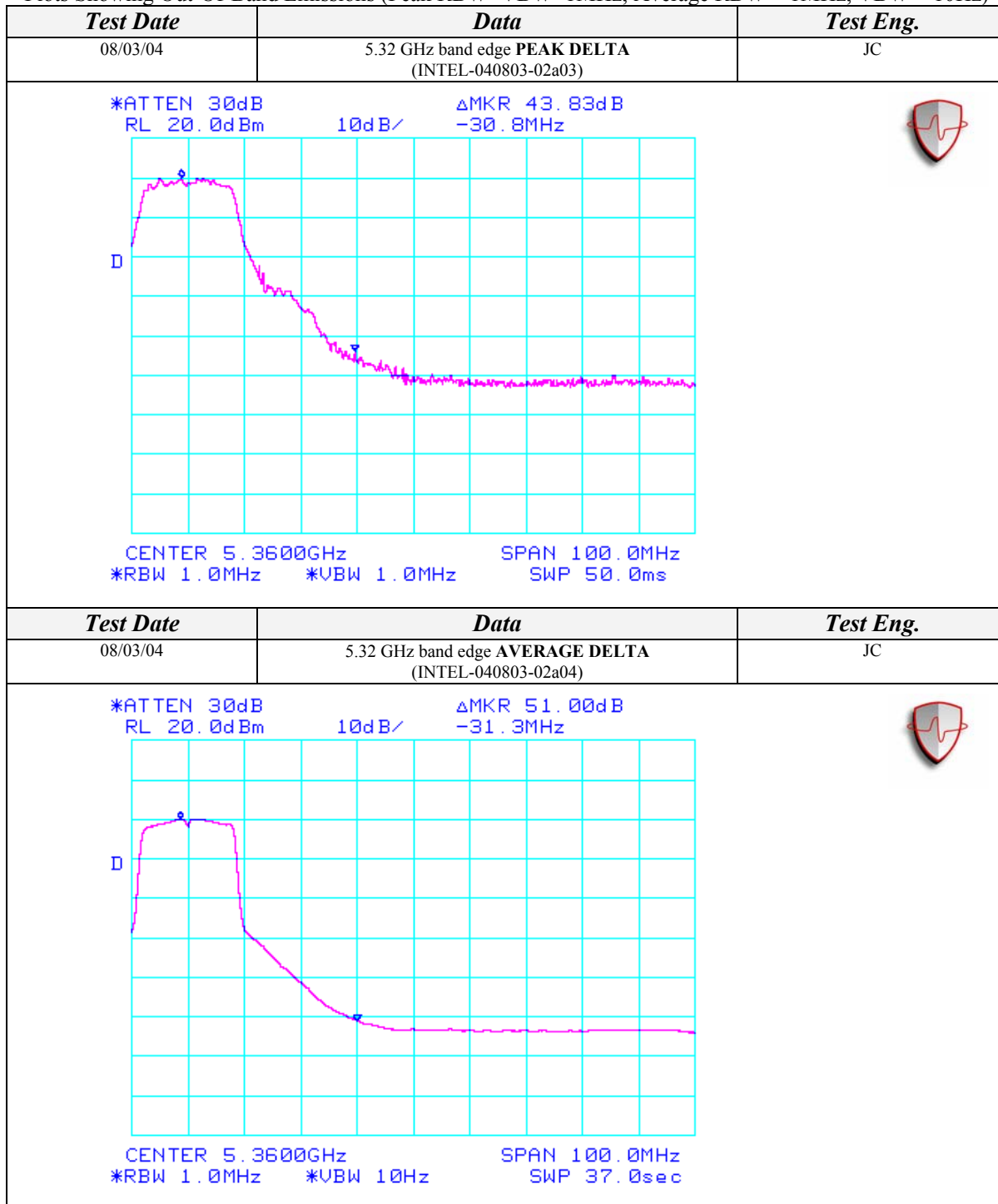
Page 29 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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



Page 30 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous TX at MAIN Antenna port with Fujitsu (Emilia) Antennas
Aegis Labs, Inc. File #: INTEL-040803-12*

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 36 (5.18 GHz)											
3453.29	51.67	100	135			43.15	3.93	30.29	42.74	68.00	-25.26
6906.54	54.67	100	135			43.84	6.10	39.50	56.43	68.00	-11.57
10360.01	50.00	100	135			43.46	7.37	39.44	53.36	68.00	-14.64
13813.36	49.33	100	135			43.65	8.28	45.23	59.18	68.00	-8.82
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.67	52.83	100	135			43.17	3.94	30.32	43.92	68.00	-24.08
7013.26	53.83	100	135			43.84	6.17	40.09	56.25	68.00	-11.75
10519.88	49.33	100	135			43.51	7.49	39.53	52.84	68.00	-15.16
14026.62	49.00	100	135			43.86	8.33	45.81	59.29	68.00	-8.71
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	53.67	100	135			43.17	3.97	30.42	44.89	68.00	-23.11
7093.33	53.00	100	135			43.81	6.18	40.01	55.37	68.00	-12.63
10639.98	48.83	100	135			43.55	7.52	39.70	52.49	74.00	-21.51
10639.98				37.12	A	43.55	7.52	39.70	40.78	54.00	-13.22
14186.58	50.00	100	135			43.96	8.41	45.30	59.75	68.00	-8.25

Page 31 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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 36 (5.18 GHz)											
3453.29	50.67	100	225			43.15	3.93	30.49	41.94	68.00	-26.06
6906.59	52.67	100	135			43.84	6.10	39.91	54.84	68.00	-13.16
10359.93	50.83	100	135			43.46	7.37	39.96	54.71	68.00	-13.29
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.67	51.33	100	225			43.17	3.94	30.51	42.62	68.00	-25.38
7013.32	52.00	100	135			43.84	6.17	40.57	54.91	68.00	-13.09
10519.92	49.67	100	135			43.51	7.49	40.08	53.73	68.00	-14.27
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	51.17	100	225			43.17	3.97	30.58	42.56	68.00	-25.44
7093.33	50.67	100	135			43.81	6.18	40.41	53.45	68.00	-14.55
10639.98	49.50	100	135			43.55	7.52	39.99	53.46	74.00	-20.54
10639.98				37.41	A	43.55	7.52	39.99	41.37	54.00	-12.63

Page 32 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous RX at MAIN Antenna port with Fujitsu (Emilia) Antennas
Aegis Labs, Inc. File #: INTEL-040803-12*

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 36 (5.18 GHz)											
3453.31	50.33	100	135			43.15	3.93	30.29	41.40	80.00	-38.60
3453.31				41.19	A	43.15	3.93	30.29	32.26	60.00	-27.74
6906.66	55.50	100	135			43.84	6.10	39.50	57.26	80.00	-22.74
6906.66				49.63	A	43.84	6.10	39.50	51.39	60.00	-8.61
10359.95	51.67	100	135			43.46	7.37	39.44	55.03	80.00	-24.97
10359.95				40.10	A	43.46	7.37	39.44	43.46	60.00	-16.54
13813.25	50.17	100	135			43.65	8.28	45.23	60.02	80.00	-19.98
13813.25				37.69	A	43.65	8.28	45.23	47.54	60.00	-12.46
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.66	52.50	100	135			43.17	3.94	30.32	43.59	80.00	-36.41
3506.66				44.04	A	43.17	3.94	30.32	35.13	60.00	-24.87
7013.33	55.50	100	135			43.84	6.17	40.09	57.92	80.00	-22.08
7013.33				47.37	A	43.84	6.17	40.09	49.79	60.00	-10.21
10519.94	50.50	100	135			43.51	7.49	39.53	54.01	80.00	-25.99
10519.94				39.32	A	43.51	7.49	39.53	42.83	60.00	-17.17
14026.53	50.33	100	135			43.86	8.33	45.82	60.62	80.00	-19.38
14026.53				37.46	A	43.86	8.33	45.82	47.75	60.00	-12.25
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.72	52.17	100	135			43.17	3.97	30.42	43.40	80.00	-36.60
3546.72				44.89	A	43.17	3.97	30.42	36.12	60.00	-23.88
7093.27	56.00	100	135			43.81	6.18	40.01	58.37	80.00	-21.63
7093.27				50.28	A	43.81	6.18	40.01	52.65	60.00	-7.35
10639.92	50.67	100	135			43.55	7.52	39.70	54.33	80.00	-25.67
10639.92				39.23	A	43.55	7.52	39.70	42.89	60.00	-17.11
14186.64	49.83	100	135			43.96	8.41	45.30	59.58	80.00	-20.42
14186.64				36.48	A	43.96	8.41	45.30	46.23	60.00	-13.77

Page 33 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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 36 (5.18 GHz)											
3453.33	51.00	100	135			43.15	3.93	30.49	42.27	80.00	-37.73
3453.33				41.12	A	43.15	3.93	30.49	32.39	60.00	-27.61
6906.67	52.17	100	135			43.84	6.10	39.91	54.34	80.00	-25.66
6906.67				41.59	A	43.84	6.10	39.91	43.76	60.00	-16.24
10359.98	50.33	100	135			43.46	7.37	39.96	54.21	80.00	-25.79
10359.98				38.03	A	43.46	7.37	39.96	41.91	60.00	-18.09
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.68	51.00	100	135			43.17	3.94	30.51	42.29	80.00	-37.71
3506.68				40.98	A	43.17	3.94	30.51	32.27	60.00	-27.73
7013.36	51.00	100	135			43.84	6.17	40.57	53.91	80.00	-26.09
7013.36				40.62	A	43.84	6.17	40.57	43.53	60.00	-16.47
10519.91	49.83	100	135			43.51	7.49	40.08	53.89	80.00	-26.11
10519.95				37.41	A	43.51	7.49	40.08	41.47	60.00	-18.53
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	50.00	100	135			43.17	3.97	30.58	41.39	80.00	-38.61
3546.66				39.35	A	43.17	3.97	30.58	30.74	60.00	-29.26
7093.33	51.67	100	135			43.81	6.18	40.41	54.45	80.00	-25.55
7093.33				41.62	A	43.81	6.18	40.41	44.40	60.00	-15.60
10639.97	49.50	100	135			43.55	7.52	39.99	53.46	80.00	-26.54
10639.97				37.15	A	43.55	7.52	39.99	41.11	60.00	-18.89



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

CLIENT:	Intel Corporation	DATE:	08/09/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040803
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot in 802.11a (5150-5350 MHz) mode with the Nissei (Beira) antennas.	TEMPERATURE:	36 C
		HUMIDITY:	29% RH
		TIME:	4:00 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)

Page 35 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous TX at MAIN Antenna port with Nissei (Beira) Antennas
Aegis Labs, Inc. File #: INTEL-040803-14*

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
5180.00	61.83	100	225				4.94	35.02	101.79		
5180.00				51.77	A		4.94	35.02	91.73		
5240.00	62.67	100	225				4.97	34.96	102.60		
5240.00				52.46	A		4.97	34.96	92.39		
5260.00	67.33	100	225				4.97	34.94	107.24		
5260.00				56.57	A		4.97	34.94	96.48		
5320.00	67.00	100	225				5.00	34.88	106.88		
5320.00				56.43	A		5.00	34.88	96.31		

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
5180.00	60.33	100	180				4.94	35.02	100.29		
5180.00				50.22	A		4.94	35.02	90.18		
5240.00	61.00	100	180				4.97	34.96	100.93		
5240.00				50.98	A		4.97	34.96	90.91		
5260.00	66.00	100	180				4.97	34.94	105.91		
5260.00				56.42	A		4.97	34.94	96.33		
5320.00	65.17	100	180				5.00	34.88	105.05		
5320.00				56.03	A		5.00	34.88	95.91		

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

Page 36 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Band Edge Field Strength Calculations in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous TX at MAIN Antenna port with Nissei (Beira) Antennas
Aegis Labs, Inc. File #: INTEL-040803-14

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
5150.00									49.95	74.00	-24.05
5150.00					A				39.40	54.00	-14.60
5120.30									51.62	74.00	-22.38
5120.30					A				38.89	54.00	-15.11
5350.00									63.05	74.00	-10.95
5350.00					A				45.31	54.00	-8.69
5395.50									57.21	74.00	-16.79
5395.50					A				42.98	54.00	-11.02
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
5150.00									48.45	74.00	-25.55
5150.00					A				37.85	54.00	-16.15
5120.30									50.12	74.00	-23.88
5120.30					A				37.34	54.00	-16.66
5350.00									61.22	74.00	-12.78
5350.00					A				44.91	54.00	-9.09
5395.50									55.38	74.00	-18.62
5395.50					A				42.58	54.00	-11.42

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:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

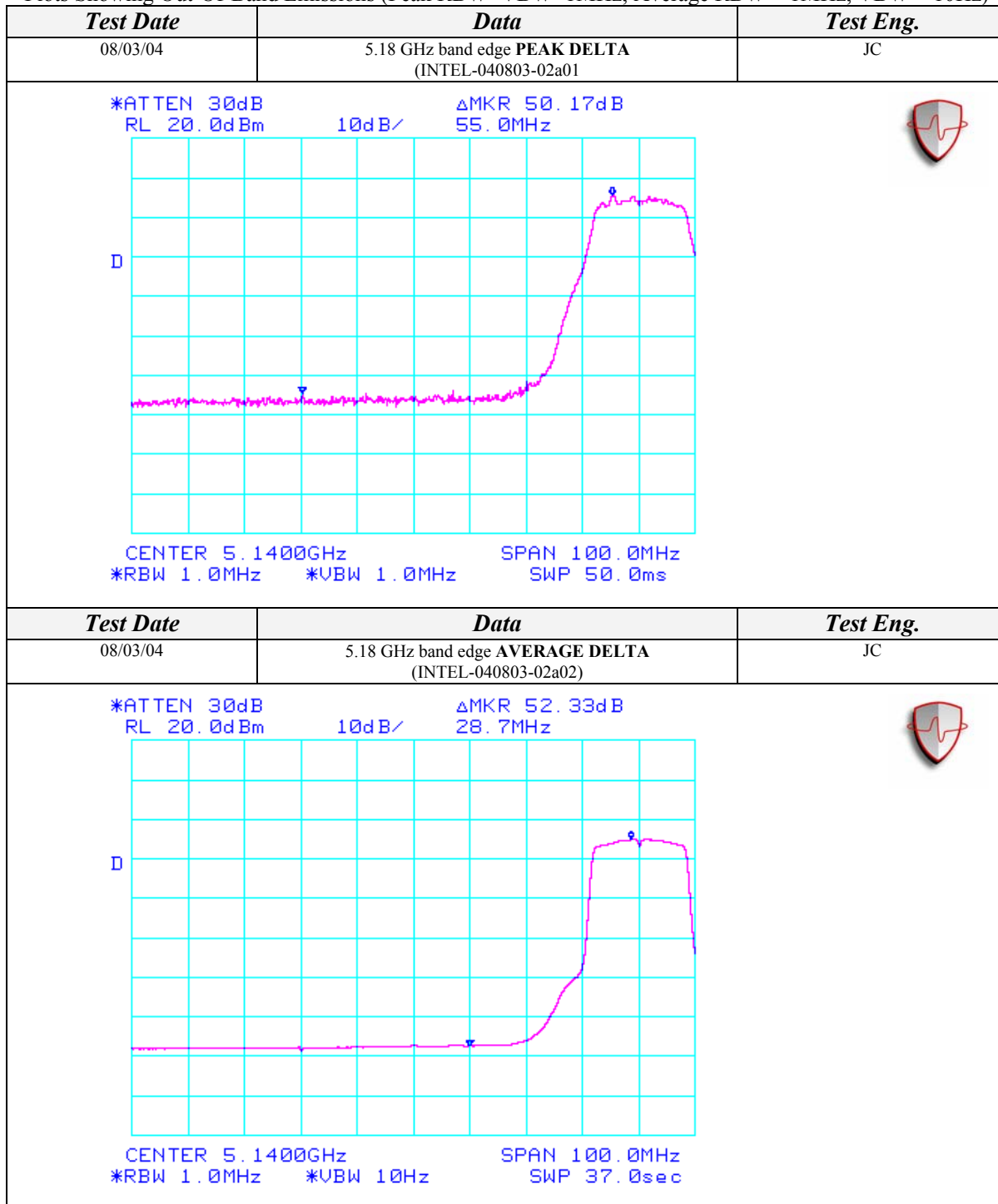
Page 37 of 66 (Appendix A)
 Report Number: INTEL-040804F
 FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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



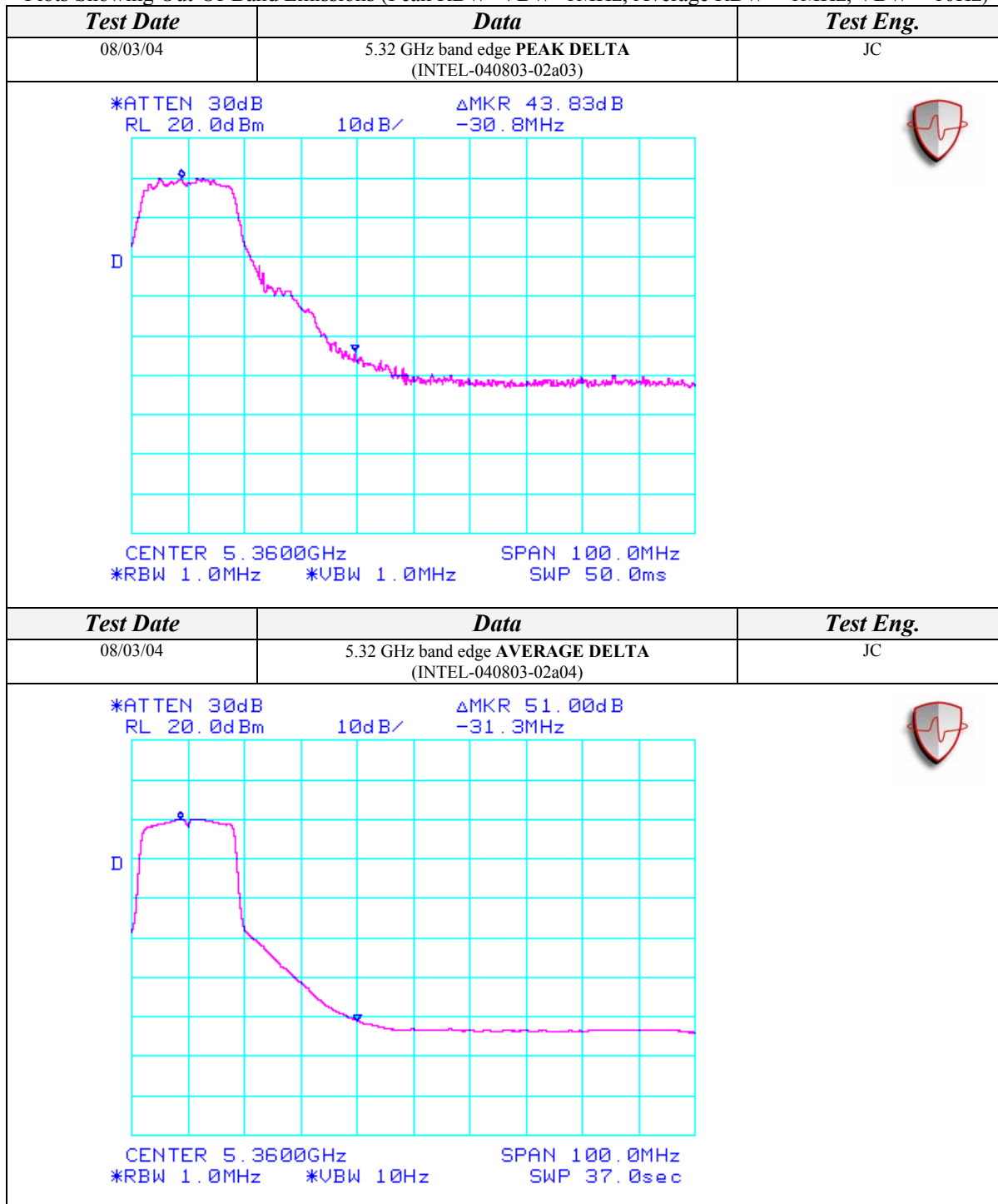
Page 38 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

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



Page 39 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous TX at MAIN Antenna port with Nissei (Beira) Antennas
Aegis Labs, Inc. File #: INTEL-040803-16*

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 36 (5.18 GHz)											
3453.29	50.33	100	135			43.15	3.93	30.29	41.40	68.00	-26.60
6906.54	54.83	100	135			43.84	6.10	39.50	56.59	68.00	-11.41
10360.01	49.83	100	135			43.46	7.37	39.44	53.19	68.00	-14.81
13813.36	49.17	100	135			43.65	8.28	45.23	59.02	68.00	-8.98
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.67	52.00	100	135			43.17	3.94	30.32	43.09	68.00	-24.91
7013.26	55.67	100	135			43.84	6.17	40.09	58.09	68.00	-9.91
10519.88	49.50	100	135			43.51	7.49	39.53	53.01	68.00	-14.99
14026.62	48.67	100	135			43.86	8.33	45.81	58.96	68.00	-9.04
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	53.50	100	135			43.17	3.97	30.42	44.72	68.00	-23.28
7093.33	55.33	100	135			43.81	6.18	40.01	57.70	68.00	-10.30
10639.98	48.67	100	135			43.55	7.52	39.70	52.33	74.00	-21.67
10639.98				36.83	A	43.55	7.52	39.70	40.49	54.00	-13.51
14186.58	50.17	100	135			43.96	8.41	45.30	59.92	68.00	-8.08

Page 40 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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 36 (5.18 GHz)											
3453.29	55.50	100	315			43.15	3.93	30.49	46.77	68.00	-21.23
6906.59	52.33	100	135			43.84	6.10	39.91	54.50	68.00	-13.50
10359.93	50.00	100	135			43.46	7.37	39.96	53.88	68.00	-14.12
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.67	49.67	100	315			43.17	3.94	30.51	40.96	68.00	-27.04
7013.32	52.00	100	135			43.84	6.17	40.57	54.91	68.00	-13.09
10519.92	48.83	100	135			43.51	7.49	40.08	52.89	68.00	-15.11
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	50.17	100	315			43.17	3.97	30.58	41.56	68.00	-26.44
7093.33	52.00	100	135			43.81	6.18	40.41	54.78	68.00	-13.22
10639.98	48.67	100	135			43.55	7.52	39.99	52.63	74.00	-21.37
10639.98				37.50	A	43.55	7.52	39.99	41.46	54.00	-12.54

Page 41 of 66 (Appendix A)
 Report Number: INTEL-040804F
 FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 32, 56, & 64
Continuous RX at MAIN Antenna port with Nissei (Beira) Antennas
Aegis Labs, Inc. File #: INTEL-040803-16*

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 36 (5.18 GHz)											
3453.33	53.00	100	135			43.15	3.93	30.29	44.07	80.00	-35.93
3453.33				44.56	A	43.15	3.93	30.29	35.63	60.00	-24.37
6906.66	56.17	100	135			43.84	6.10	39.50	57.93	80.00	-22.07
6906.66				50.71	A	43.84	6.10	39.50	52.47	60.00	-7.53
10359.95	52.17	100	135			43.46	7.37	39.44	55.53	80.00	-24.47
10359.95				40.47	A	43.46	7.37	39.44	43.83	60.00	-16.17
13813.25	49.83	100	135			43.65	8.28	45.23	59.68	80.00	-20.32
13813.25				38.08	A	43.65	8.28	45.23	47.93	60.00	-12.07
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.66	53.00	100	135			43.17	3.94	30.32	44.09	80.00	-35.91
3506.66				45.71	A	43.17	3.94	30.32	36.80	60.00	-23.20
7013.33	56.17	100	135			43.84	6.17	40.09	58.59	80.00	-21.41
7013.33				50.89	A	43.84	6.17	40.09	53.31	60.00	-6.69
10519.94	50.83	100	135			43.51	7.49	39.53	54.34	80.00	-25.66
10519.94				40.74	A	43.51	7.49	39.53	44.25	60.00	-15.75
14026.53	50.17	100	135			43.86	8.33	45.82	60.46	80.00	-19.54
14026.53				36.05	A	43.86	8.33	45.82	46.34	60.00	-13.66
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.72	53.67	100	135			43.17	3.97	30.42	44.90	80.00	-35.10
3546.72				47.41	A	43.17	3.97	30.42	38.64	60.00	-21.36
7093.27	56.17	100	135			43.81	6.18	40.01	58.54	80.00	-21.46
7093.27				50.83	A	43.81	6.18	40.01	53.20	60.00	-6.80
10639.92	51.17	100	135			43.55	7.52	39.70	54.83	80.00	-25.17
10639.92				40.44	A	43.55	7.52	39.70	44.10	60.00	-15.90
14186.64	48.67	100	135			43.96	8.41	45.30	58.42	80.00	-21.58
14186.64				37.71	A	43.96	8.41	45.30	47.46	60.00	-12.54

Page 42 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



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 36 (5.18 GHz)											
3453.33	50.00	100	135			43.15	3.93	30.49	41.27	80.00	-38.73
3453.33				38.32	A	43.15	3.93	30.49	29.59	60.00	-30.41
6906.67	52.33	100	135			43.84	6.10	39.91	54.50	80.00	-25.50
6906.67				43.27	A	43.84	6.10	39.91	45.44	60.00	-14.56
10359.98	50.83	100	135			43.46	7.37	39.96	54.71	80.00	-25.29
10359.98				39.17	A	43.46	7.37	39.96	43.05	60.00	-16.95
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.68	50.50	100	135			43.17	3.94	30.51	41.79	80.00	-38.21
3506.68				39.93	A	43.17	3.94	30.51	31.22	60.00	-28.78
7013.36	52.33	100	135			43.84	6.17	40.57	55.24	80.00	-24.76
7013.36				43.28	A	43.84	6.17	40.57	46.19	60.00	-13.81
10519.91	49.83	100	135			43.51	7.49	40.08	53.89	80.00	-26.11
10519.95				37.41	A	43.51	7.49	40.08	41.47	60.00	-18.53
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	50.50	100	135			43.17	3.97	30.58	41.89	80.00	-38.11
3546.66				40.16	A	43.17	3.97	30.58	31.55	60.00	-28.45
7093.33	52.00	100	135			43.81	6.18	40.41	54.78	80.00	-25.22
7093.33				42.66	A	43.81	6.18	40.41	45.44	60.00	-14.56
10639.97	50.50	100	135			43.55	7.52	39.99	54.46	80.00	-25.54
10639.97				36.85	A	43.55	7.52	39.99	40.81	60.00	-19.19



AEGIS LABS INC.

PEAK TRANSMIT POWER

CLIENT:	Intel Corporation	DATE:	08/03/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040803-01
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot.	TEMPERATURE:	18 C
		HUMIDITY:	62% RH
		TIME:	9:15 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 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 = 26.86 dBm @ 5260 MHz 11 dBm + 10logB = 27.00 dBm @ 5320 MHz

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

Page 44 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

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	11.45	13.96	16.90	48.98
802.11a	51	5240	6	11.65	14.62	16.95	49.55
802.11a	52	5260	6	16.30	42.66	21.00	125.89
802.11a	64	5320	6	16.20	41.69	20.80	120.23



AEGIS LABS INC.

CONDUCTED BAND EDGE EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	08/03/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040803
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot.	TEMPERATURE:	25 C
		HUMIDITY:	40% RH
		TIME:	10:30 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)

Page 46 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Conducted Band Edge Emissions Test Results (Continued)

<i>Freq. (MHz)</i>	<i>Power Spec Den. Reading (dBm/MHz)</i>	<i>Antenna Gain (dBi)</i>	<i>Corrected Reading (dBm/MHz)</i>	<i>Limits (dBm/MHz)</i>	<i>Diff (dB) +=FAIL</i>	<i>Comments</i>
With Yokowo (Pumpkin) Antenna Gain at 5 GHz						
5250.00	-58.10	2.65	-55.45	-27.00	-28.45	Tx @ 5240 MHz
5250.00	-53.80	2.65	-51.15	-27.00	-24.15	Tx @ 5260 MHz
With Yokowo (Mint) Antenna Gain at 5 GHz						
5250.00	-58.10	0.63	-57.47	-27.00	-30.47	Tx @ 5240 MHz
5250.00	-53.80	0.63	-53.17	-27.00	-26.17	Tx @ 5260 MHz
With Fujitsu (Emilia) Antenna Gain at 5 GHz						
5250.00	-58.10	1.18	-56.92	-27.00	-29.92	Tx @ 5240 MHz
5250.00	-53.80	1.18	-52.62	-27.00	-25.62	Tx @ 5260 MHz
With Nissei (Beira) Antenna Gain at 5 GHz						
5250.00	-58.10	0.39	-57.71	-27.00	-30.71	Tx @ 5240 MHz
5250.00	-53.80	0.39	-53.41	-27.00	-26.41	Tx @ 5260 MHz

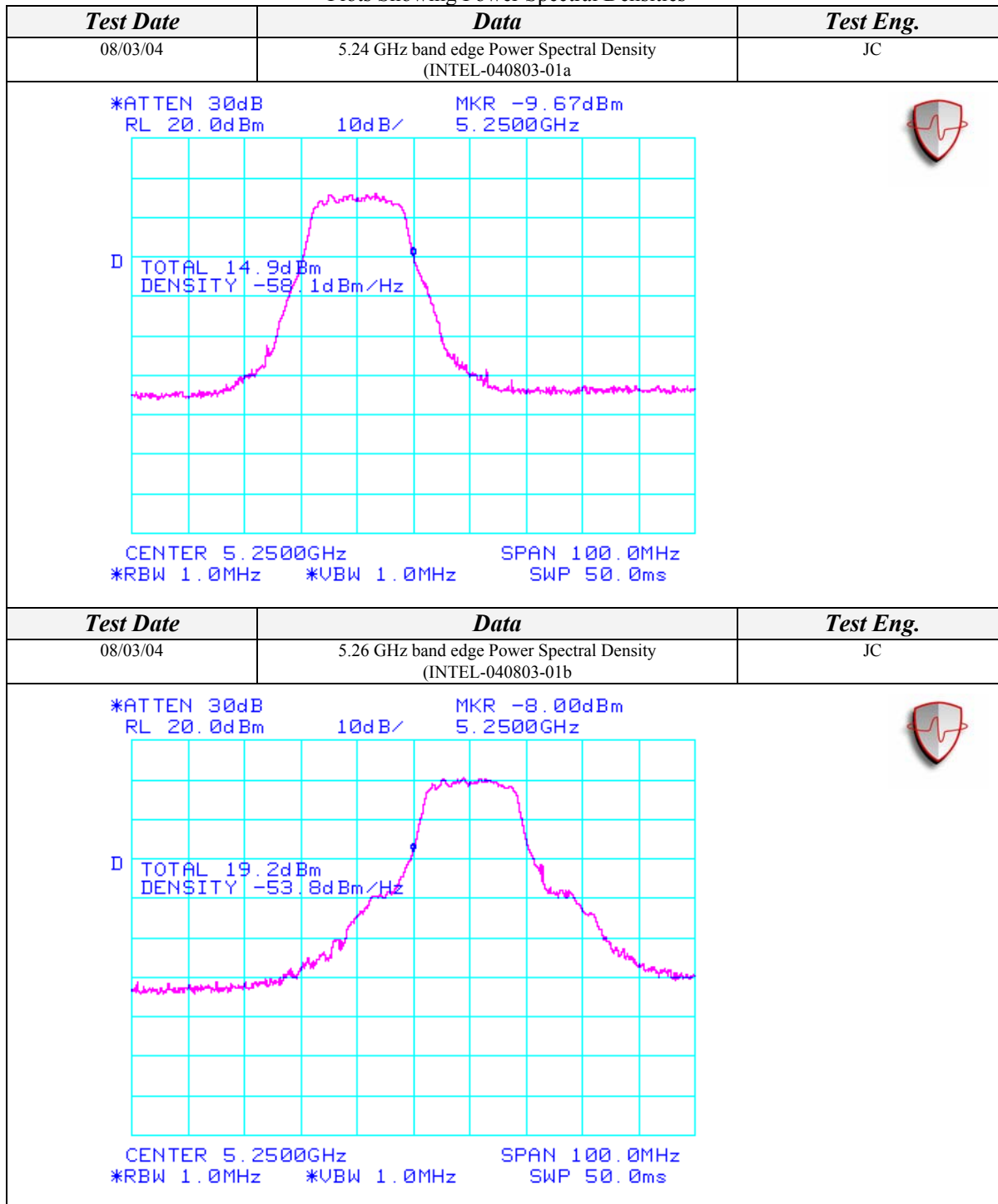
Page 47 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Conducted Band Edge Emissions Test Results (Continued)

Plots Showing Power Spectral Densities



Page 48 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

26-dB EMISSIONS BANDWIDTH

CLIENT:	Intel Corporation	DATE:	06/09/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040412
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot.	TEMPERATURE:	22 C
		HUMIDITY:	50% RH
		TIME:	9:50 AM

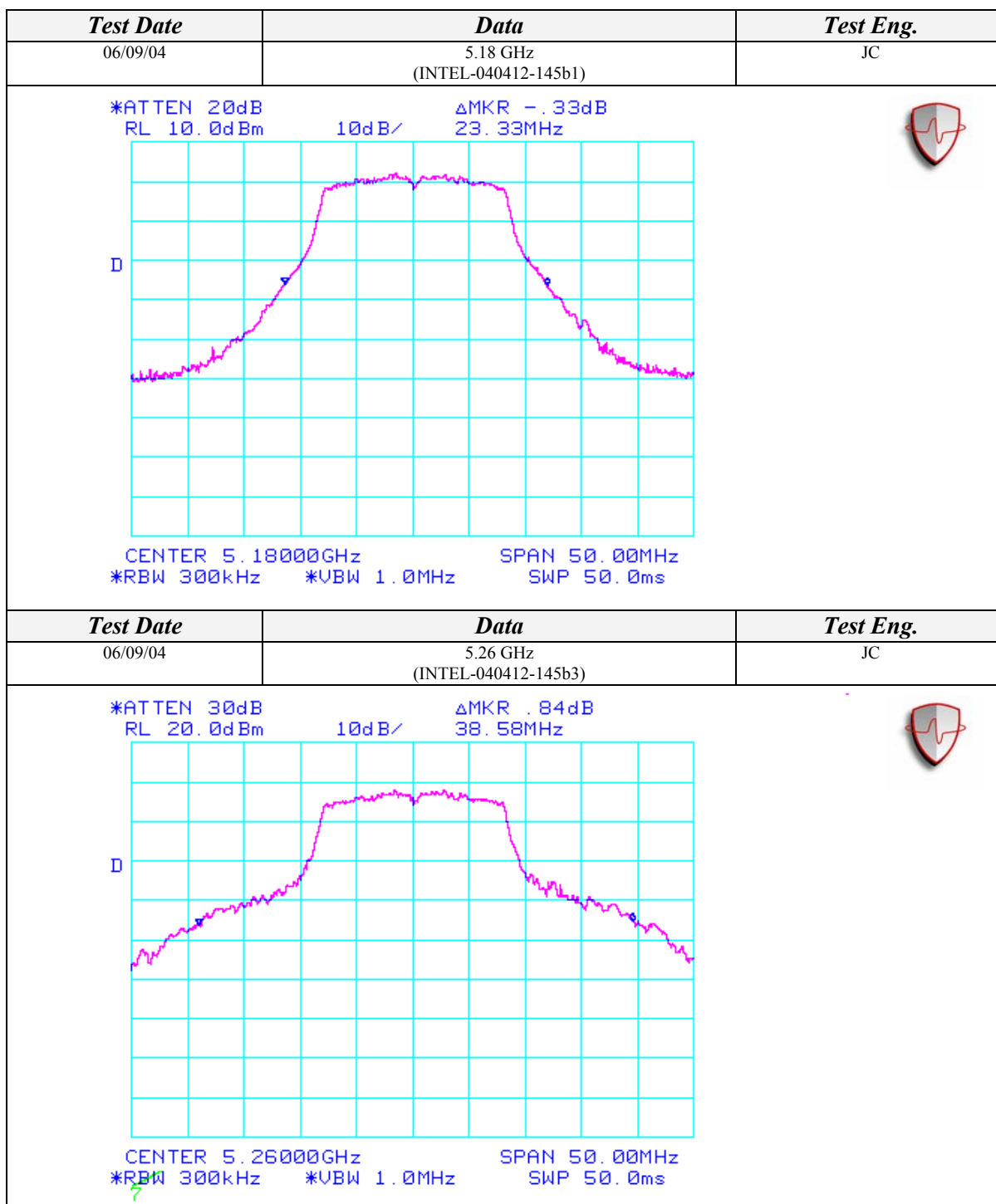
Standard:	FCC CFR 47, Part 15.407(a)(1) & 15.407(a)(2)
Description:	26-dB emission bandwidth in MHz
Results:	See Data Sheets

Page 49 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

26-dB Emissions Bandwidth (Continued)

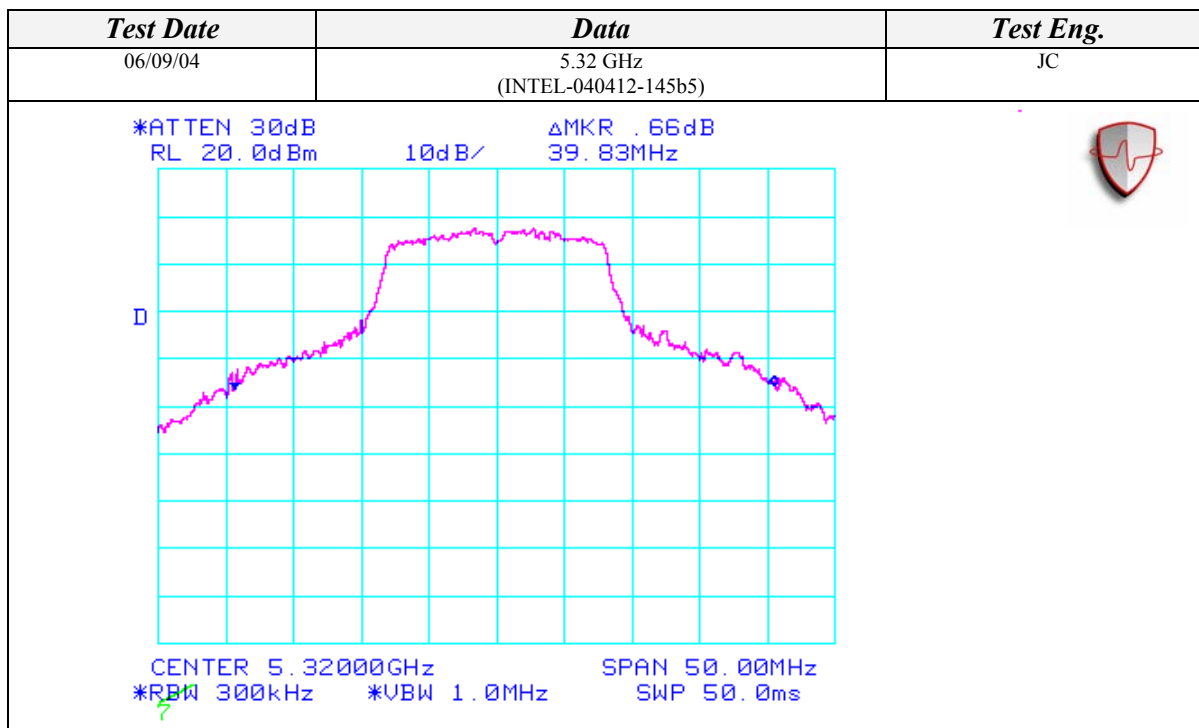


Page 50 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

26-dB Emissions Bandwidth (Continued)



Page 51 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

PEAK POWER SPECTRAL DENSITY

CLIENT:	Intel Corporation	DATE:	06/09/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040412
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot.	TEMPERATURE:	22 C
		HUMIDITY:	50% RH
		TIME:	9:30 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

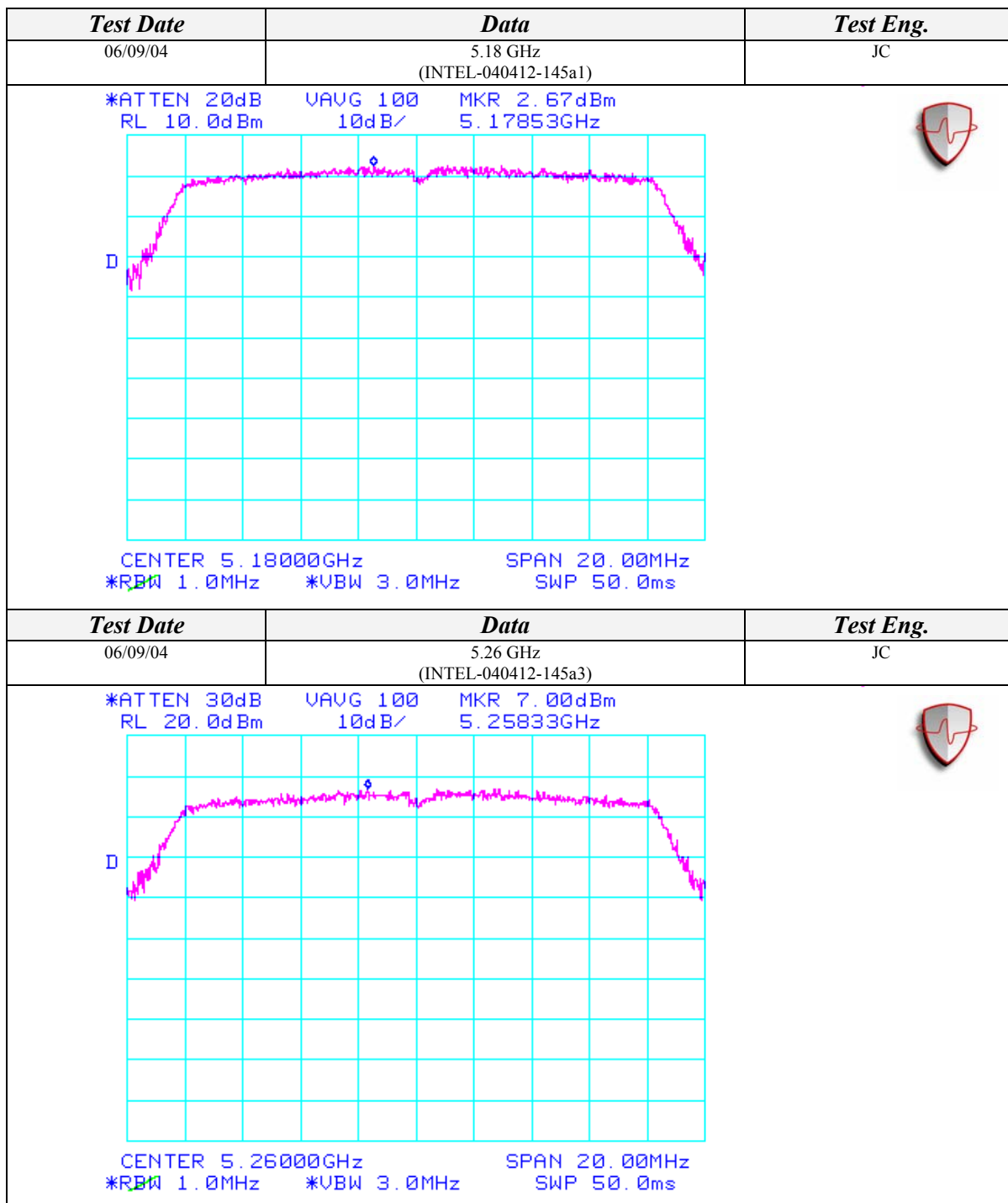
Peak Power Spectral Density Limits	
Frequency (MHz)	Limit (dBm)
5150-5250	4
5250-5350	11

Page 52 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Peak Power Spectral Density (Continued)

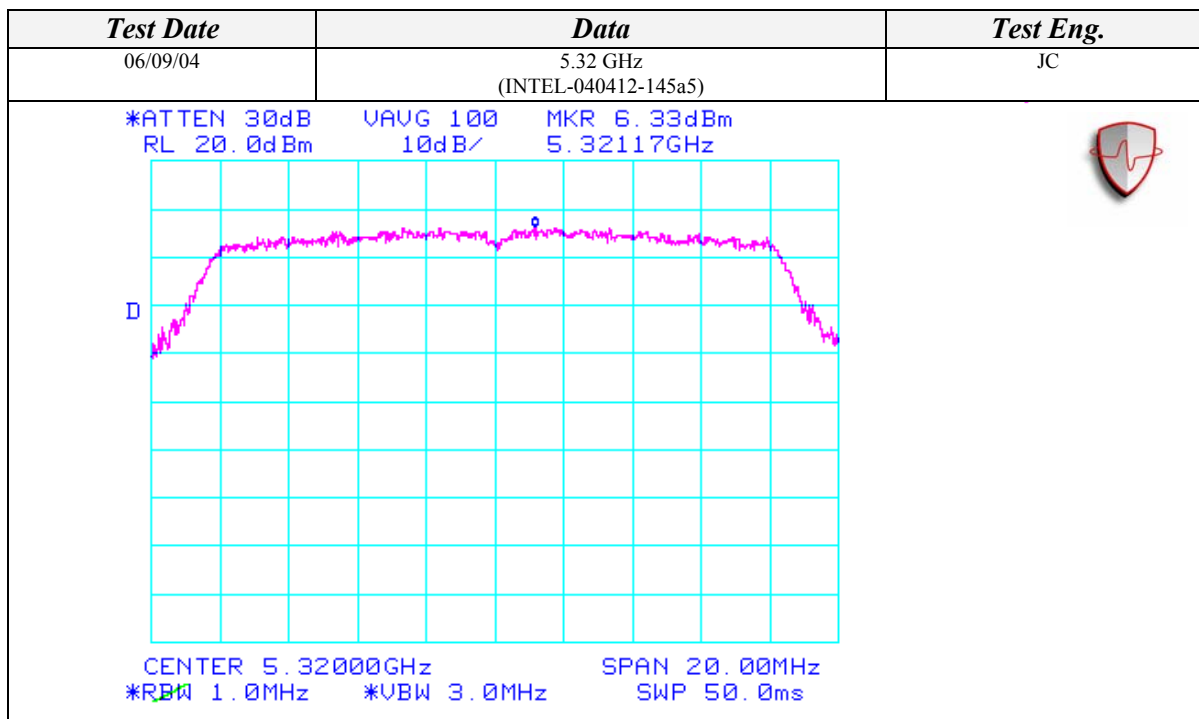


Page 53 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Peak Power Spectral Density (Continued)





AEGIS LABS INC.

PEAK EXCURSION

CLIENT:	Intel Corporation	DATE:	06/09/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040412
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot.	TEMPERATURE:	18 C
		HUMIDITY:	57% RH
		TIME:	8:15 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

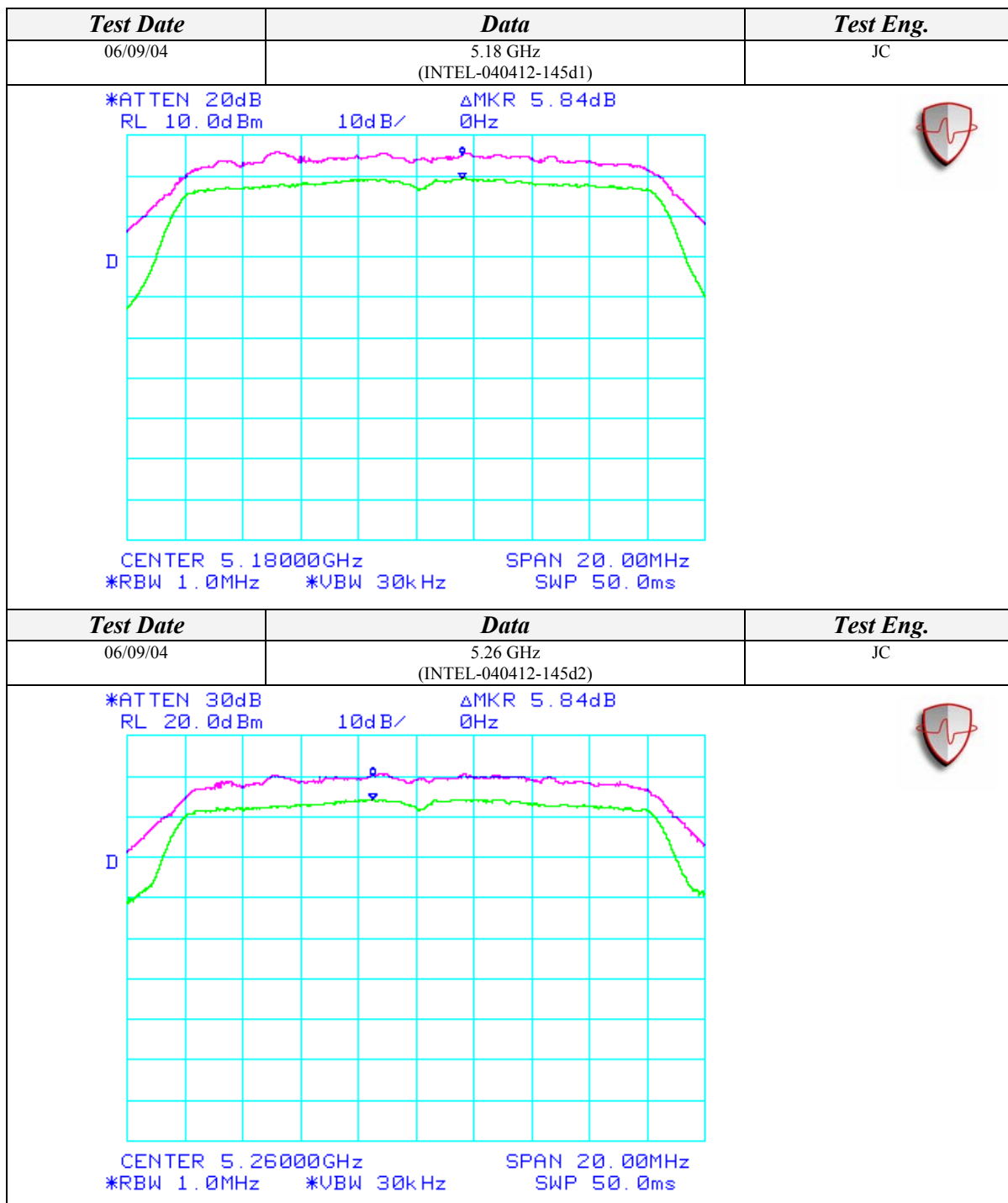
Peak Excursion Limits	
Frequency (MHz)	Limit (dB)
5150-5350	13

Page 55 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Peak Excursion (Continued)

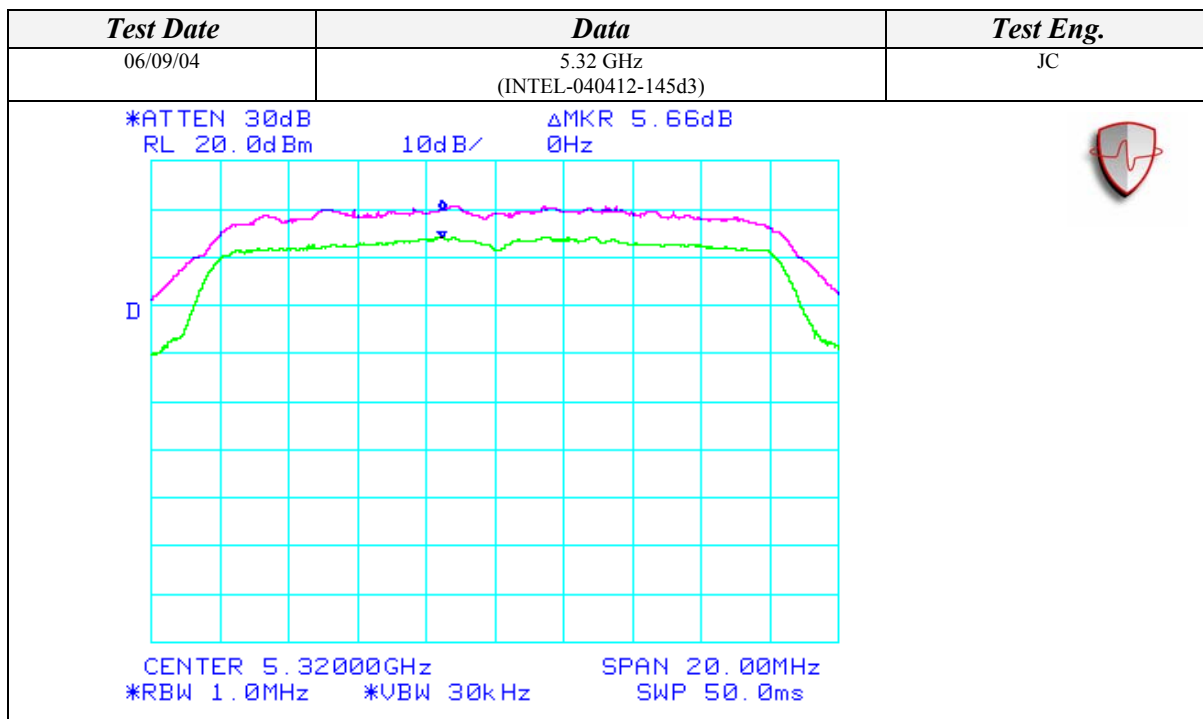


Page 56 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Peak Excursion (Continued)





AEGIS LABS INC.

CONDUCTED OUT OF BAND EMISSIONS

CLIENT:	Intel Corporation	DATE:	06/09/04
EUT:	Intel PRO/Wireless 2915ABG Network Connection	PROJECT NUMBER:	INTEL-040412
MODEL NUMBER:	WM3B2915ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	344F96244ABC51962012	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot.	TEMPERATURE:	18 C
		HUMIDITY:	57% RH
		TIME:	8:15 AM

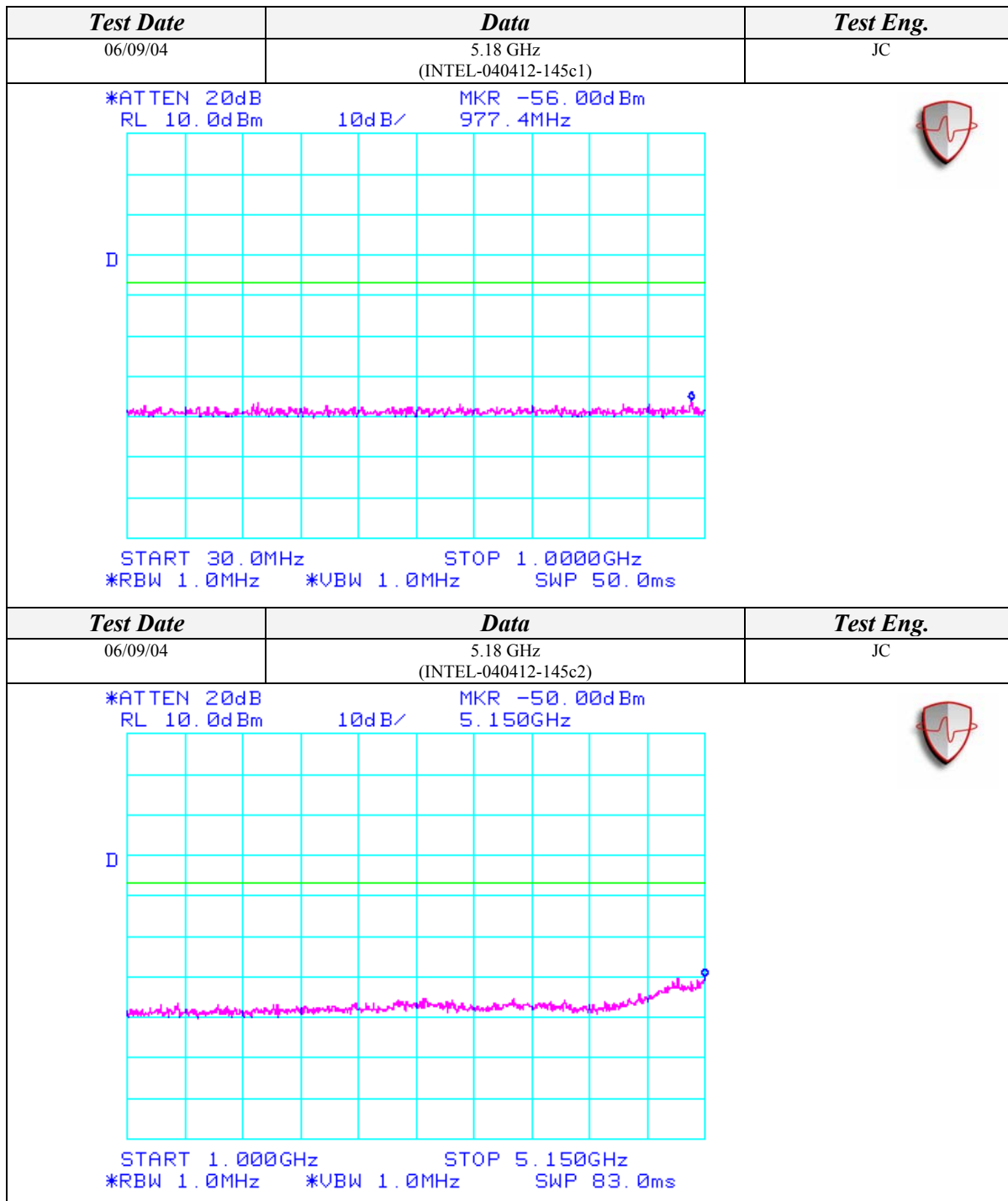
Standard:	FCC CFR 47, Part 15.407(b)(1) and 15.407(b)(2)
Description:	For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 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.

Page 58 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Conducted Out Of Band Emissions (Continued)

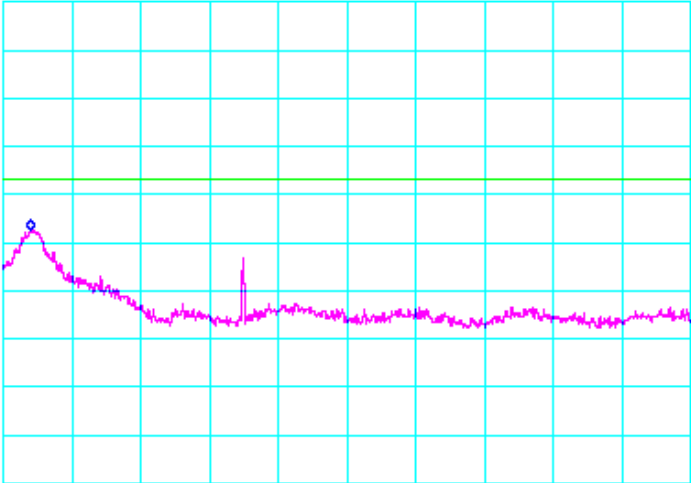
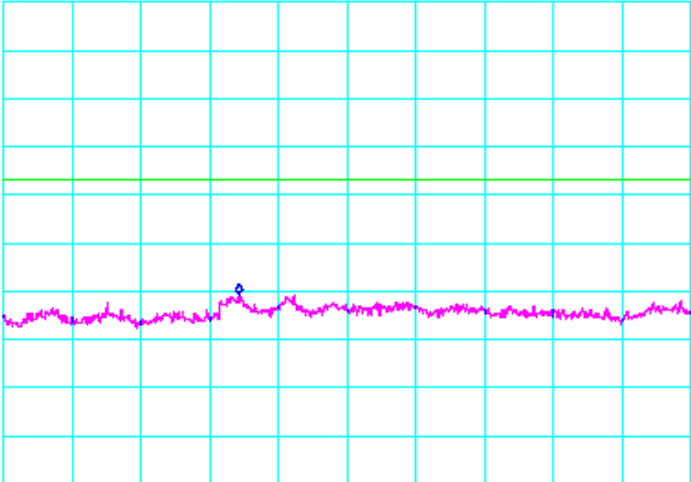


Page 59 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Conducted Out Of Band Emissions (Continued)

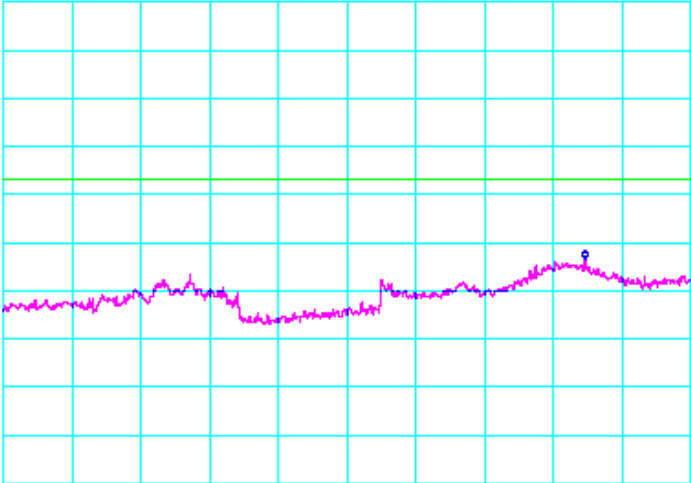
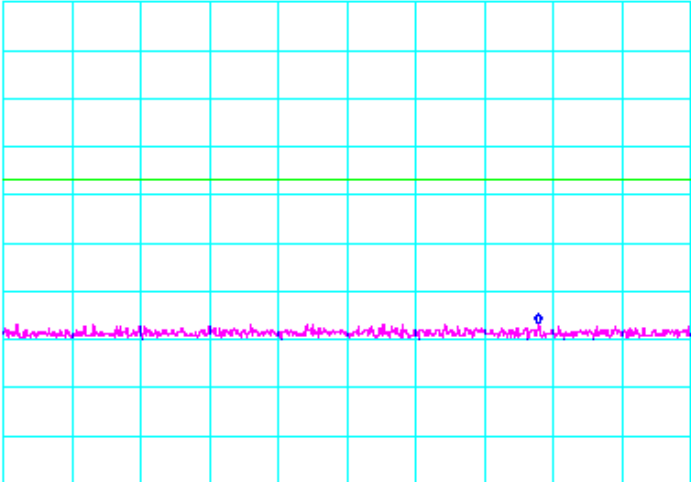
Test Date	Data	Test Eng.
06/09/04	5.18 GHz (INTEL-040412-145c3)	JC
*ATTEN 20dB RL 10.0dBm 10dB/ MR -37.33dBm 5.440GHz  START 5.250GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 95.0ms 		
Test Date	Data	Test Eng.
06/09/04	5.18 GHz (INTEL-040412-145c4)	JC
*ATTEN 20dB RL 10.0dBm 10dB/ MR -50.67dBm 13.43GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms 		

Page 60 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Conducted Out Of Band Emissions (Continued)

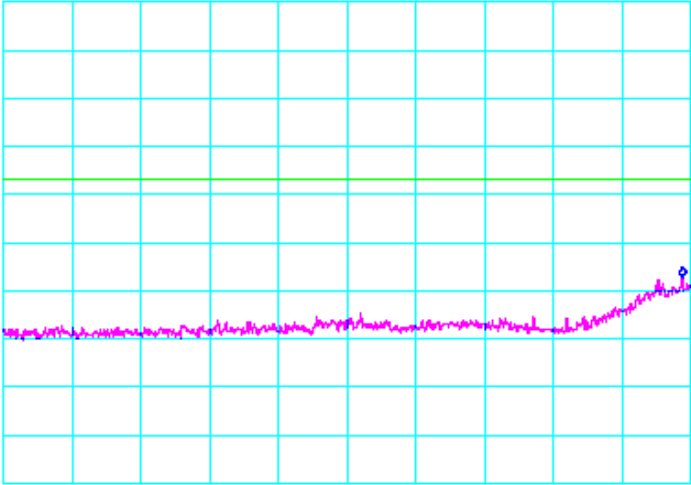
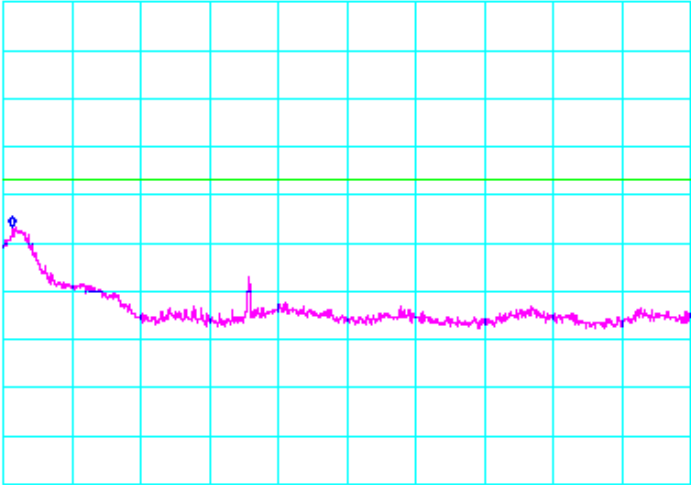
Test Date	Data	Test Eng.
06/09/04	5.18 GHz (INTEL-040412-145c5)	JC
*ATTEN 20dB RL 10.0dBm 10dB/ MKR -43.50dBm 36.93GHz  START 20.00GHz STOP 40.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 400ms 		
Test Date	Data	Test Eng.
06/09/04	5.26 GHz (INTEL-040412-145c6)	JC
*ATTEN 20dB RL 10.0dBm 10dB/ MKR -56.67dBm 785.0MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms 		

Page 61 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Conducted Out Of Band Emissions (Continued)

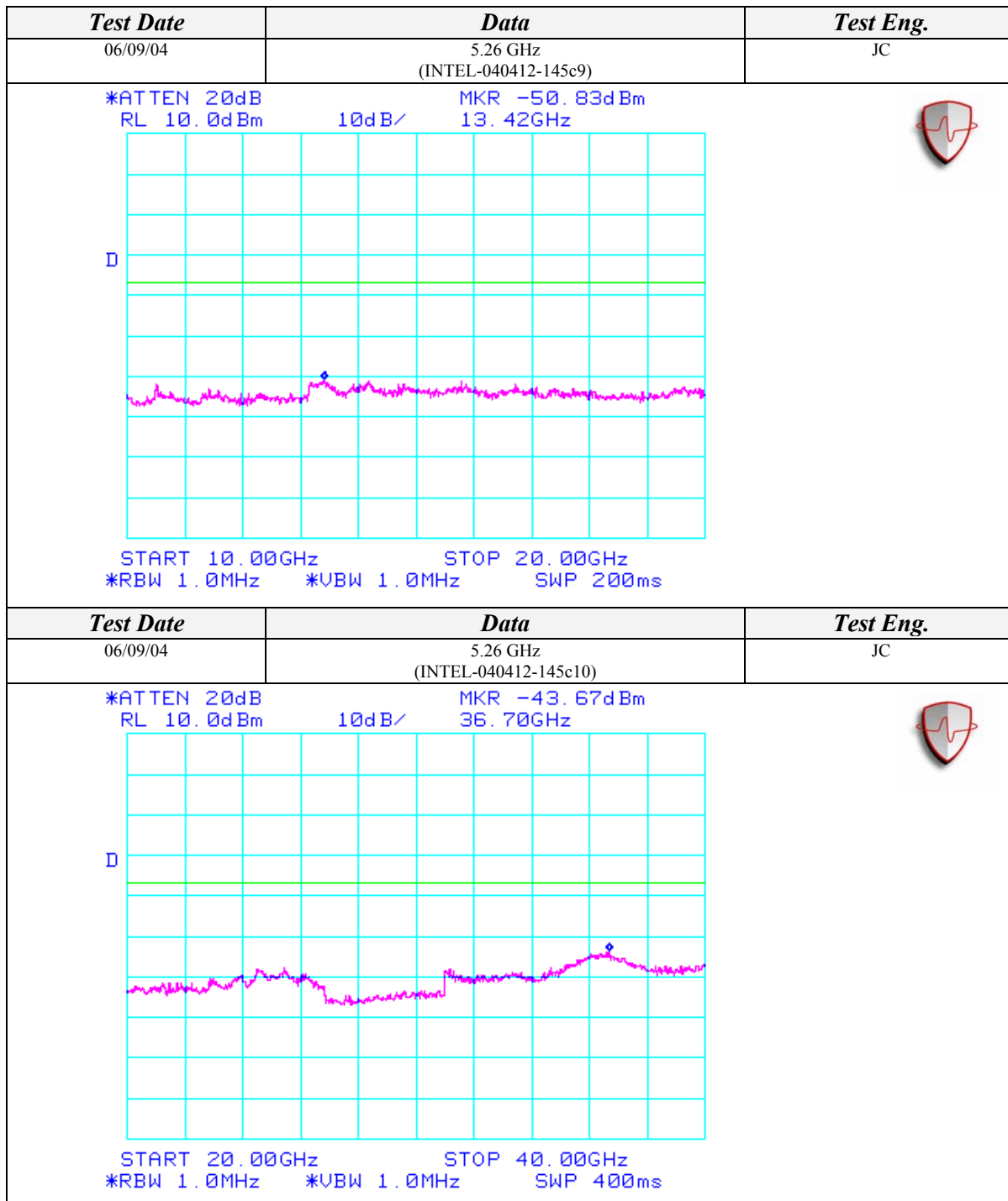
Test Date	Data	Test Eng.
06/09/04	5.26 GHz (INTEL-040412-145c7)	JC
*ATTEN 20dB RL 10.0dBm 10dB/ MKR -47.17dBm 5.102GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms 		
Test Date	Data	Test Eng.
06/09/04	5.26 GHz (INTEL-040412-145c8)	JC
*ATTEN 20dB RL 10.0dBm 10dB/ MKR -36.50dBm 5.412GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms 		

Page 62 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Conducted Out Of Band Emissions (Continued)

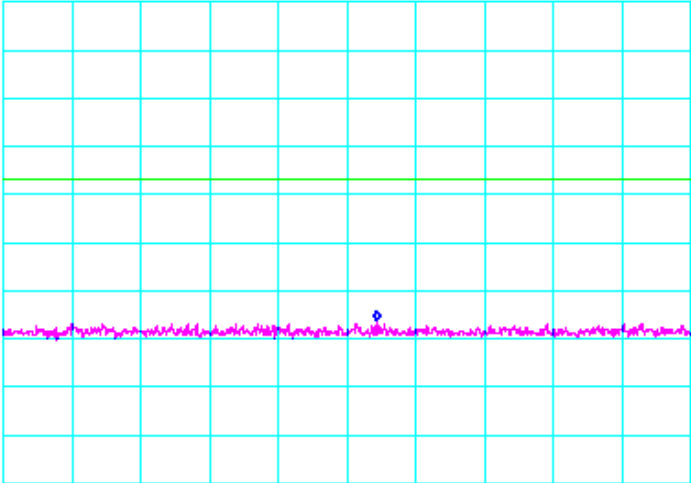
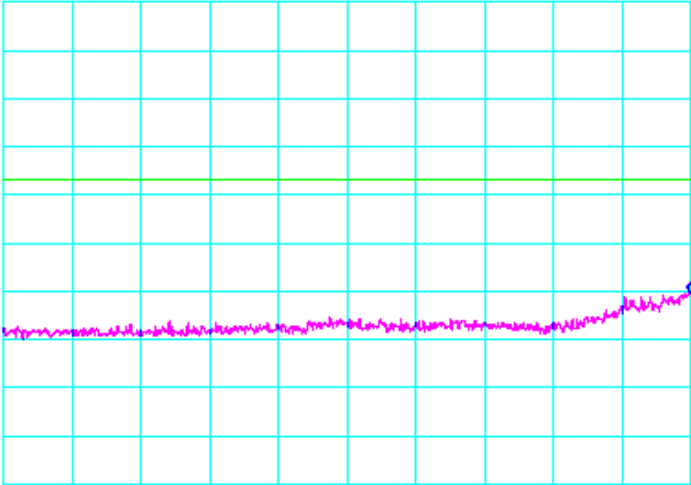


Page 63 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Conducted Out Of Band Emissions (Continued)

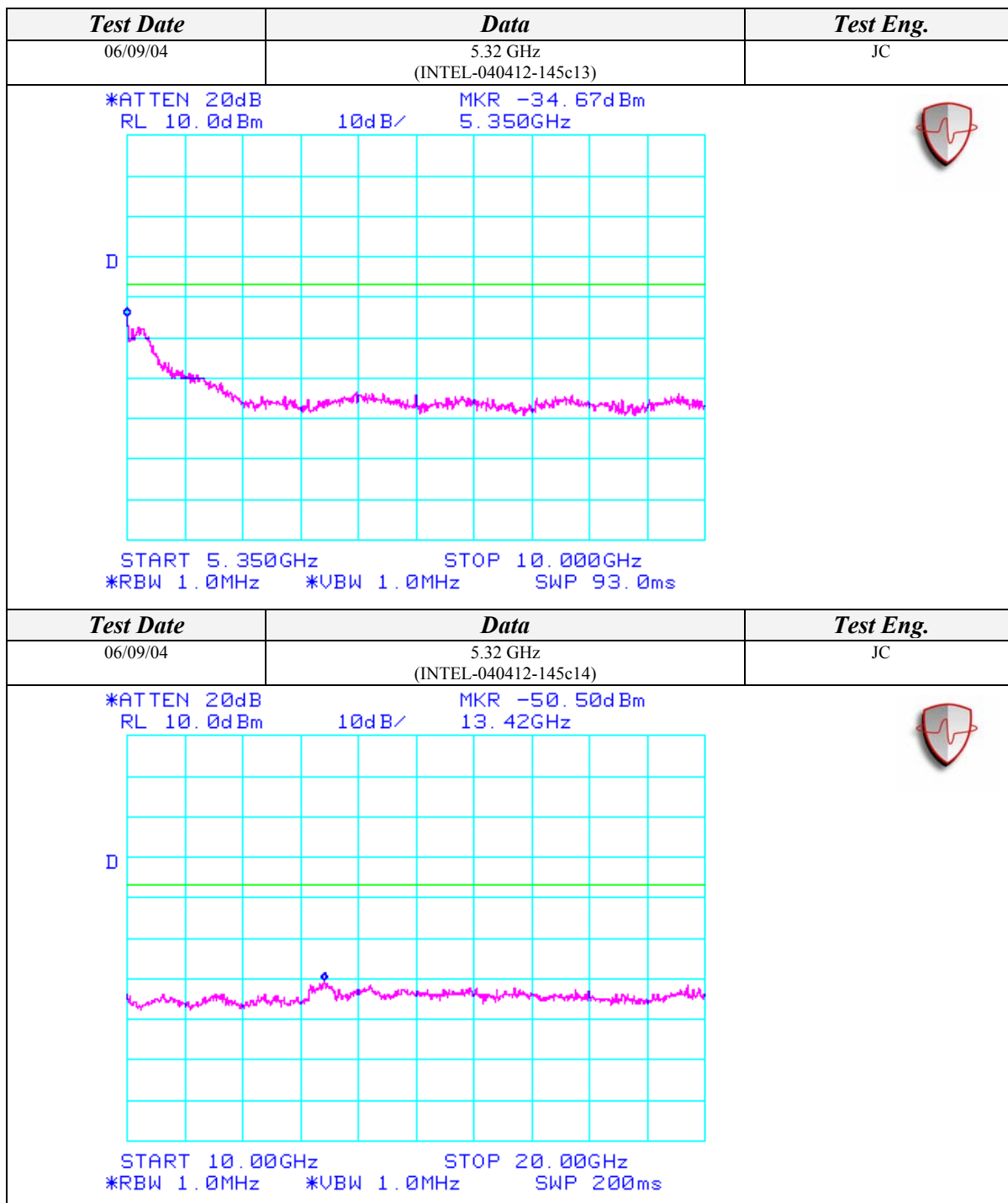
Test Date	Data	Test Eng.
06/09/04	5.32 GHz (INTEL-040412-145c11)	JC
*ATTEN 20dB RL 10.0dBm 10dB/ MKR -56.17dBm 557.0MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms 		
Test Date	Data	Test Eng.
06/09/04	5.32 GHz (INTEL-040412-145c12)	JC
*ATTEN 20dB RL 10.0dBm 10dB/ MKR -50.17dBm 5.250GHz  START 1.000GHz STOP 5.250GHz *RBW 1.0MHz *VBW 1.0MHz SWP 85.0ms 		

Page 64 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Conducted Out Of Band Emissions (Continued)

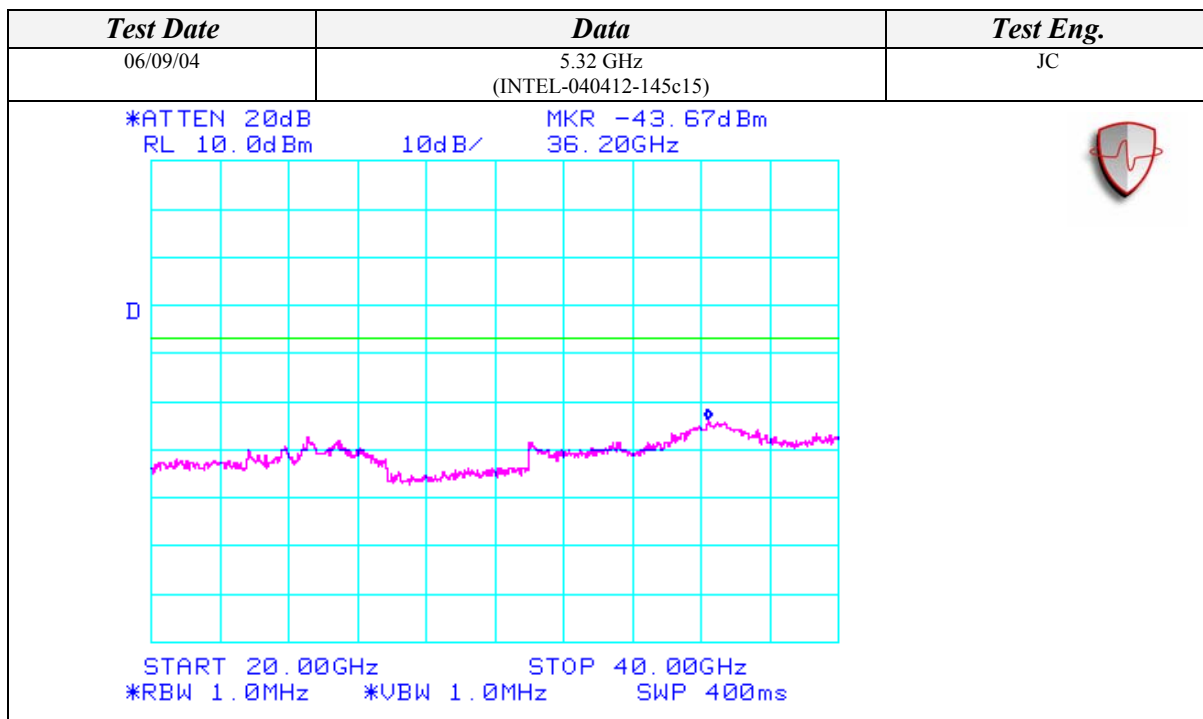


Page 65 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG



AEGIS LABS INC.

Conducted Out Of Band Emissions (Continued)



Page 66 of 66 (Appendix A)
Report Number: INTEL-040804F
FCC ID: PD9FJ3B2915ABG