



Modular Approval
Test Report
And Application for Grant of Equipment Authorization

TEST REPORT PERTAINING TO:

Equipment Under Test	Model Number(s)
Intel PRO/Wireless 4965AG_ Network Connection	4965AG_

CONFIGURATION

802.11a / 802.11b / 802.11g with a set of Ethertronics Antennas

MEASUREMENTS PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARD (S)

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

PREPARED FOR:

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Test Report #: INTEL-061108F

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		A	B	
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1.0 REGULATORY COMPLIANCE GUIDELINES

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 were furnished by RF technicians and engineers with accredited qualifications and training credentials to carry out their duties.

The object of this report was to publish verifiable test results of an EUT subjected to the tests outlined in the standard listed on the cover page of this report.

1.1 Guidelines For Testing To Emissions Standards

This standard for EMC emission requirements apply to electrical equipment for Information Technology Equipment (ITE). Compliance to these standards and in combination with the other standards listed in this test report can be used to demonstrate presumption of compliance with the protection requirements of the appropriate agency standard.

The purpose of this standard is to specify minimum requirements for emissions regarding electromagnetic compatibility (EMC) and protect the radio frequency spectrum 9 kHz. – 400 GHz. from unwanted interference generated from electrical/digital systems that intentionally or unintentionally generated RF energy. The emissions standards, normative documents and/or publications were used to conduct all tests performed on the equipment herein referred to as “Equipment Under Test”.



2.0 SUMMARY OF TEST RESULTS

802.11a Mode (5150-5350 MHz) Chain A

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 = 22.00 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 = 16.61dBm (45.81mW) 5.24 GHz = 16.81dBm (47.97mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = -15.06dBm
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)(6) 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 = 22.42 MHz 5.32 GHz = 21.50 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 = 18.61dBm (69.34mW) 5.32 GHz = 18.41dBm (72.60mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 9.50dBm 5.32 GHz = 9.83dBm
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)(6) 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
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 = 5.83 dB 5.26 GHz = 5.67 dB 5.32 GHz = 5.50 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations Exhibit
15.407(b)(6) 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



2.0 Summary Of Test Results (Continued)

802.11a Mode (5150-5350 MHz) Chain B

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 = 23.50 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 = 16.81dBm (47.97mW) 5.24 GHz = 16.91dBm (49.09mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = -13.62dBm
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)(6) 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 = 23.75 MHz 5.32 GHz = 22.33 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 = 19.41dBm (87.29mW) 5.32 GHz = 19.11dBm (81.46mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 9.83dBm 5.32 GHz = 9.33dBm
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)(6) 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
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 = 6.17 dB 5.26 GHz = 6.17 dB 5.32 GHz = 5.83 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations Exhibit
15.407(b)(6) 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



2.0 Summary Of Test Results (Continued)

ANALYSIS AND CONCLUSIONS

Based upon the measurement results we find that this equipment is within the limits of the global standards listed on the cover page of this test report. All results are based on a test of one sample. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

Approval Signatories

Test and Report Completed By:

A handwritten signature in blue ink, appearing to read "J Candelas", written over a white rectangular background.

Johnny Candelas
Test Technician
Aegis Labs, Inc.

11/08/06

Date:

Report Approved By:

A handwritten signature in blue ink, appearing to read "R Candelas", written over a white rectangular background.

Rick Candelas
Quality Assurance Manager
Aegis Labs, Inc.

11/08/06

Date:



3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

DEVICE TESTED:	ITE Type: Intel PRO/Wireless 4965AG_ Network Connection Model Number(s): 4965AG_ Serial Number: 0013E804612B FCC ID: PD94965AG
DATE EUT RECEIVED:	August 25 th , 2006
TEST DATE(S):	September 7 th – October 11 th , 2006
ORIGIN OF TEST SAMPLE(S):	Production
EQUIPMENT CLASS:	EUT tested as CLASS B device
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 Open Area Test Site #1& #2
ACCREDITATION CERTIFICATE(s):	A2LA Certificate Number: 1111.01, Valid through February 28, 2008
PURPOSE OF TEST:	To demonstrate compliance with the standards as described in Sections 1.0 & 2.0 of this report.
UNCERTAINTY BUDGET:	Proficiency Testing and Uncertainty Calculations for all tests indicated in this report have been conducted in accordance with ISO 17025: 2005 requirements Section 5.4.6, and 5.9. Uncertainty Budgets and Proficiency Test results available upon request.
STATEMENT OF CALIBRATION:	All accredited equipment calibrations were performed by Liberty Labs, Inc. and World Cal. with typical calibration uncertainty estimates derived from ISO Guide to the determination of uncertainties with a Coverage Factor of k=2 for 95% level of confidence.



4.0 DESCRIPTION OF EUT CONFIGURATION

4.1 EUT Description

Equipment Under Test (EUT)	
Trade Name:	Intel PRO/Wireless 4965AG_ Network Connection
Model Number:	4965AG_
Frequency Range:	802.11a = 5.15-5.35 GHz
Enclosure:	The EUT contains it's own shield made of aluminum approximately 2.5cm wide by 2cm deep by 2mm high.
Transfer Rate:	6/36/54 Mbps for 802.11a mode
Antenna Type:	PIFA (Main/Aux)
Antenna Gain (See Note 2):	Ethertronics Antenna @ 5 GHz = 5.00 dBi
Transmit Output Power:	Please see Appendix A (Data Sheets) for actual output power.
Power Supply:	3.3VDC from computer MPCIE slot.
Number of External Test Ports Exercised:	3 Antenna Ports

The Intel PRO/Wireless 4965AG_ 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 54 Mbps.

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

NOTE 2: The EUT was tested with a set of Ethertronics Antennas. (Refer to the antenna specifications exhibits).



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 Chain A, B, & C 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 Chain A antenna port and once transmitting from Chain B antenna port. The EUT was placed in either continuous transmit or continuous receive mode by a program provided by the manufacturer (*CRTU Version 4.1.14.0000*).

4.3 List of EUT, Sub-Assemblies and Host Equipment

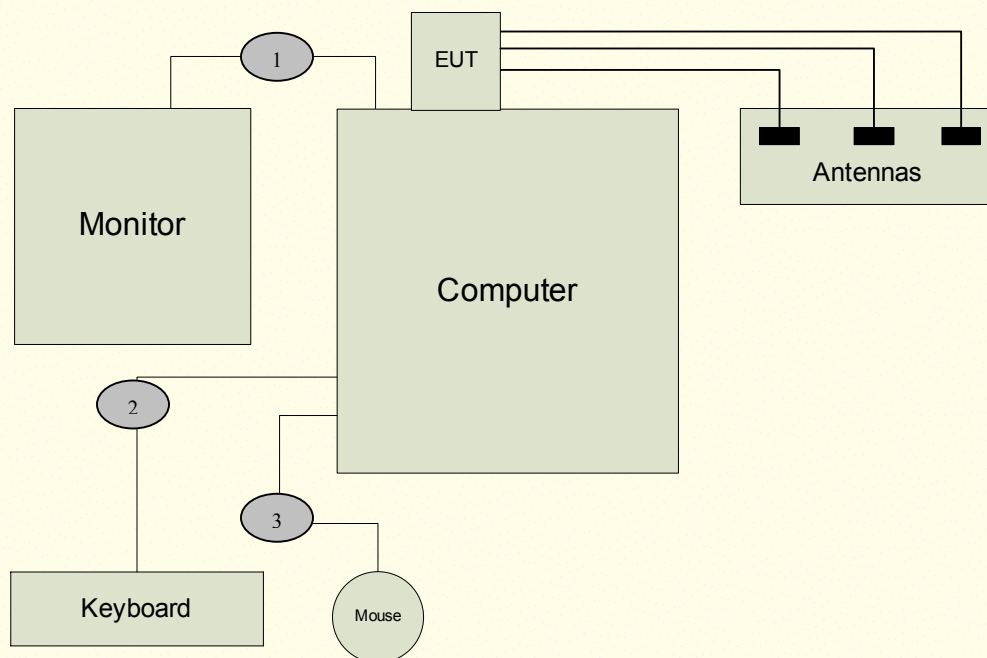
Equipment Under Test			
Manufacturer	Equipment Name	Model or Part Number	Serial Number
Intel Corporation	Intel PRO/Wireless 4965AG_ Network Connection	4965AG_	0013E804612B

EUT Sub Assemblies			
Manufacturer	Equipment Name	Model or Part Number	Serial Number
Ethertronics	Chain A (Tx) Antenna	MPCI01001	N/A
Ethertronics	Chain B (Tx) Antenna	MPCI01001	N/A
Ethertronics	Chain C (Rx) Antenna	MPCI01001	N/A

HOST EQUIPMENT LIST			
Manufacturer	Equipment Name	Model or Part Number	Serial Number
GST	Host Computer	GST-8000	G0400295337-015
Sony	Monitor	CPD-200ES	0742818
Logitech	Keyboard	Y-BF37	MCT25200581
Logitech	Mouse	M-BJ58	LNA22802012

NOTE: All the power cords of the above support equipment are standard and non-shielded.

4.4 I/O Cabling Diagram and Description



Signal Line Cable Description

Cable	Length	Construction	Source Connector	Destination Connector	Bundled Length	Ferrite Attached	Note
1	1.5m	Round, Braid & Foil Shielded	Host Computer: Metallic DB-15	Monitor: Hardwired	N/A	N/A	N/A
2	1.5m	Round, Braid & Foil Shielded	Host Computer: Metallic 8-pin Mini DIN	Keyboard: Hardwired	N/A	N/A	N/A
3	1.5m	Round, Braid & Foil Shielded	Host Computer: Metallic 8-pin Mini DIN	Mouse: Hardwired	N/A	N/A	N/A



4.5 EMC Test Hardware and Software Measurement Equipment

TEST EQUIPMENT LIST - Emissions					
Equipment Name	Manufacturer	Model Number	Serial Number	Calibration Due Date	Maintenance Calibration Cycle
Spectrum Analyzer	Agilent	8565EC	3946A00245	07/24/07	1 Year
Antenna - Horn	EMCO	3115	2230	05/15/07	1 Year
Preamplifier	Agilent	8449B	3008A01573	12/08/06	1 Year
18 Foot Coax	Semflex	X116BFSX10216	546	12/14/06	1 Year
5.15-5.35 GHz Notch Filter	Microwave Circuits	N0452502	3173-01	04/21/07	2 Years
Antenna - 18-26.5 GHz Pre-amplified Horn	Aegis Labs, Inc.	H042	SLK-35-3W	02/08/07	1 Year
EMI Receiver - RF Section	Hewlett Packard	8546A	3325A00137	04/26/07	1 Year
EMI Receiver - RF Filter Section	Hewlett Packard	85460A	3325A00138	04/26/07	1 Year
10dB Attenuator	Radiall	R412710000	Lot 9624	06/30/07	2 Years
LISN (EUT)	Solar Electronics	9252-50-R-24-BNC	961025	03/30/08	2 Years
LISN (Access)	Solar Electronics	9252-50-R-24-BNC	961024	07/05/07	2 Years
Antenna - Biconical	EMCO	3110B	3383	04/06/07	1 Year
Antenna - Log Periodic	EMCO	3148	47943	06/22/07	1 Year
Power Meter	Anritsu	ML2487A	6K00001785	05/30/07	1 Year
Wide Bandwidth Sensor	Anritsu	MA2491A	31193	05/30/07	1 Year
12dB Attenuator	Narda	4779-12	203	12/09/06	1.5 Year
Temperature/Humidity Monitor	Dickson	TH550	7255185	03/24/07	1 Year

5.0 CONDITIONS DURING EMISSIONS MEASUREMENTS

5.1 General

All measurements were made according to the procedures defined in or referred to by the standard listed on the cover page of this report. The measurements were made in the operating mode producing the largest emissions consistent with normal operation and connected to the minimum configuration of auxiliary devices.

5.2 Conducted Emissions Test Setup

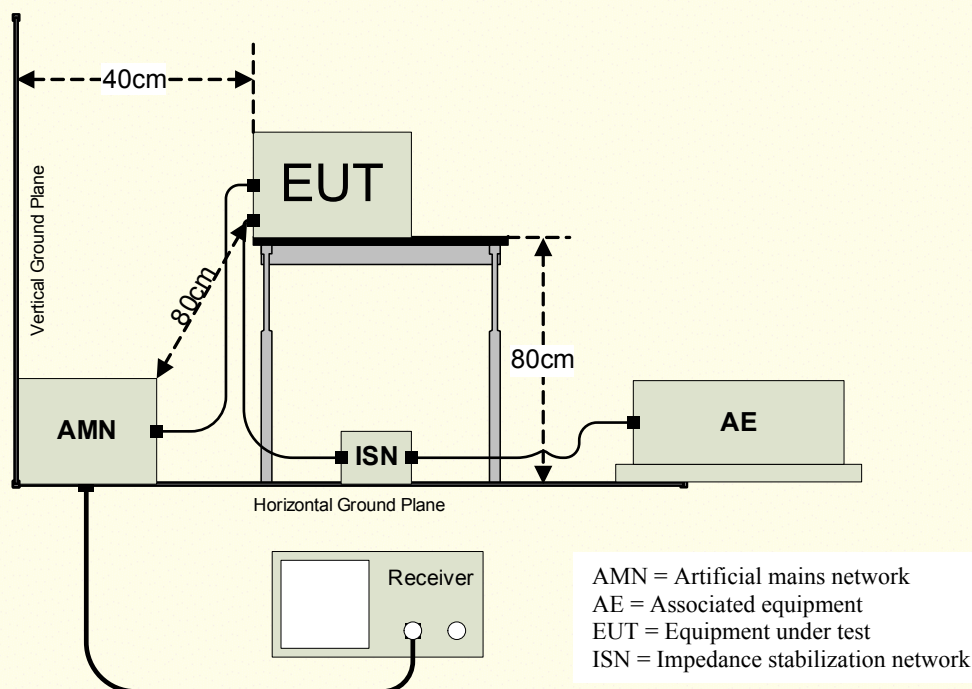
The following was the test configuration.

EUT signal cables that hung closer than 40 cm to the horizontal metal ground plane were folded back and forth forming a bundle 30 cm to 40 cm long. The power cord of the EUT was also bundled in the center and plugged into one of the artificial mains network (AMN). All peripheral equipment was powered from a second AMN via a multiple outlet strip placed at a distance on 10cm from each other. The AMN and ISN were positioned 80cm from the EUT. Signal cables that were not connected to an AE were terminated using the correct termination. If applicable, the current probe was placed at 0.1 m from the ISN.

Peak, quasi-peak and/or average detectors were used for testing performed between 150 kHz and 30 MHz. A swept frequency scan was performed for both Line 1 and Line 2. The six highest readings were compared against the limit and recorded in the data sheet along with a snapshot image of the sweep scan. The graphical scans in Appendix A only reflect peak readings while the tabulated data sheets reflect peak, average, and/or quasi-peak measurements.

Climatic Conditions:

The EUT was tested within its intended operating and climatic conditions.



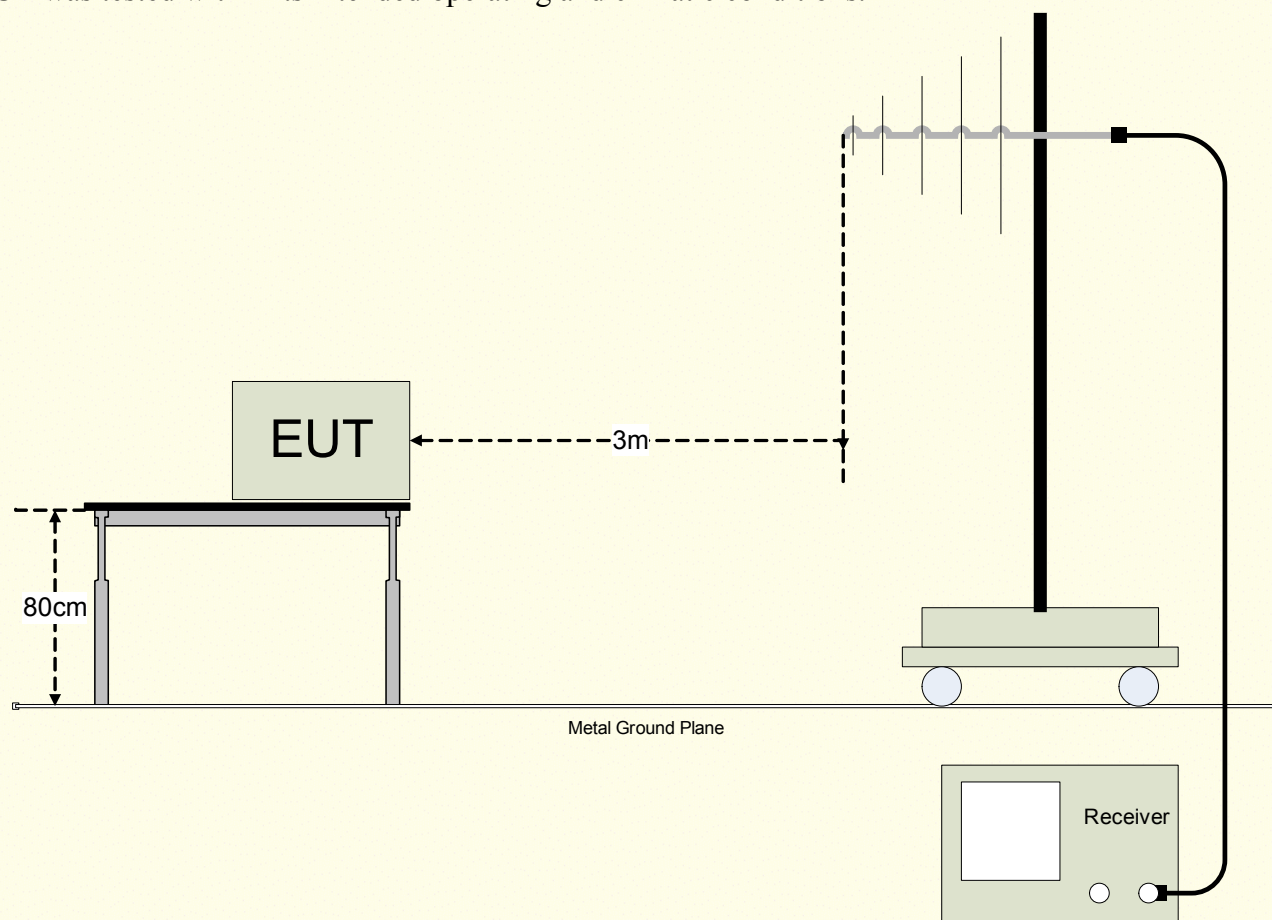
5.3 Radiated Emissions Test Setup

The Open Area Test Site (OATS) was used for radiated emission testing. The receiving (Rx) antenna(s) was placed 10m from the nearest side of the EUT facing the Rx antenna. The EUT (if floor-standing) was placed directly on the flush-mounted 360 degree rotating turntable. The EUT (if table-top) was placed directly on an 80cm high non-metallic table, and the table was placed on the rotating turntable. During the initial EMI scan, all the suspect frequencies, i.e.; harmonics, broadband signals were checked with the Rx broadband antennas in both vertical and horizontal polarities. The biconical Rx, log periodic Rx, and horn Rx antennas were used from 30MHz – 299.99MHz, 300MHz – 1000MHz, and 1GHz – 18GHz respectively.

Upon completion of all harmonic and broadband measurements, the balance of any remaining frequencies was checked between 30MHz – 18GHz. Any signals appearing within 20 dB of the classification limit was measured. Each signal was maximized by first rotating the turntable at least 360 degrees and recording the azimuth in the data sheet. Lastly, the Rx antenna was raised and/or lowered to maximize the signal elevation. If the measured signal was obtained using the peak detector and that signal appeared within 3 dB of the regulatory limit line, then the same signal was re-measured using the quasi-peak detector on the EMI receiver. Both meter readings if necessary were recorded on the data sheet.

Climatic Conditions:

The EUT was tested within its intended operating and climatic conditions.





APPENDIX A

TEST DATA



AC POWER PORT - CONDUCTED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	09/07/06
EUT:	Intel PRO/Wireless 4965AG_ Network Connection	PROJECT NUMBER:	INTEL-061107
MODEL NUMBER:	4965AG_	TEST ENGINEER:	JC
SERIAL NUMBER:	0013E804612B	SITE #:	1
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	TEMPERATURE:	22 deg. C
		HUMIDITY:	49%
		TIME:	2:15 PM

Description:	Conducted Power RF Emissions (150 kHz – 30 MHz)
Results:	PASSED LINE 1 and LINE 2 Limits
Note:	Conducted Emissions Measurements were performed on the EUT with the power supply set at the following voltage and frequency. <ul style="list-style-type: none">• 120VAC / 60 Hz

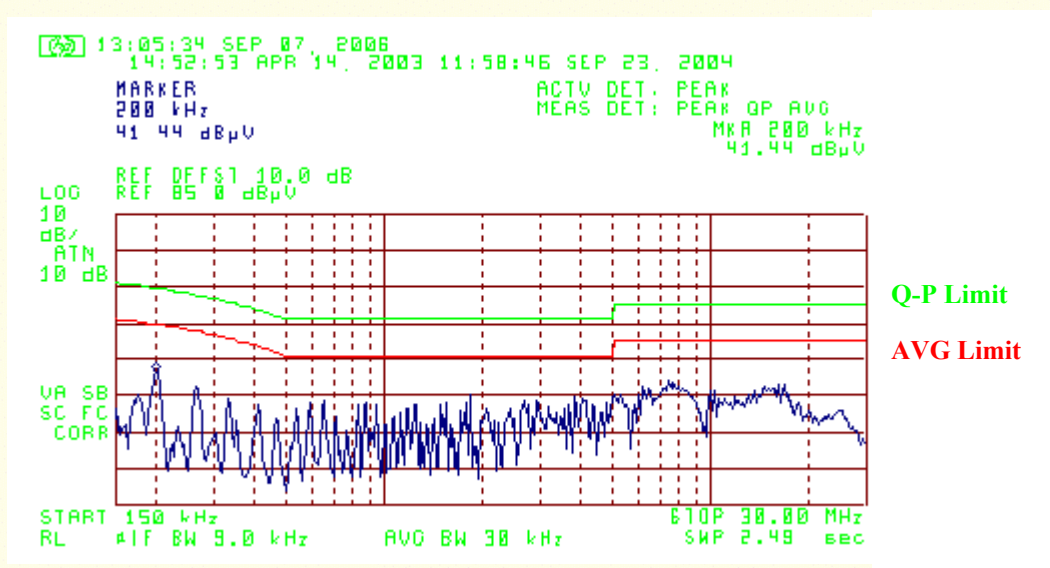


AC Power Port – Conducted Emissions Test Results (Continued)

Continuously Transmitting @ 120VAC/60Hz (INTEL-061107-01)

FCC CLASS B 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)
0.2000	41.44	PK	54.57	-13.13	64.57	-23.13
0.2700	37.40	PK	52.57	-15.17	62.57	-25.17
1.8400	35.48	PK	46.00	-10.52	56.00	-20.52
7.3900	38.91	PK	50.00	-11.09	60.00	-21.09
10.0000	36.02	PK	50.00	-13.98	60.00	-23.98
16.1400	38.26	PK	50.00	-11.74	60.00	-21.74

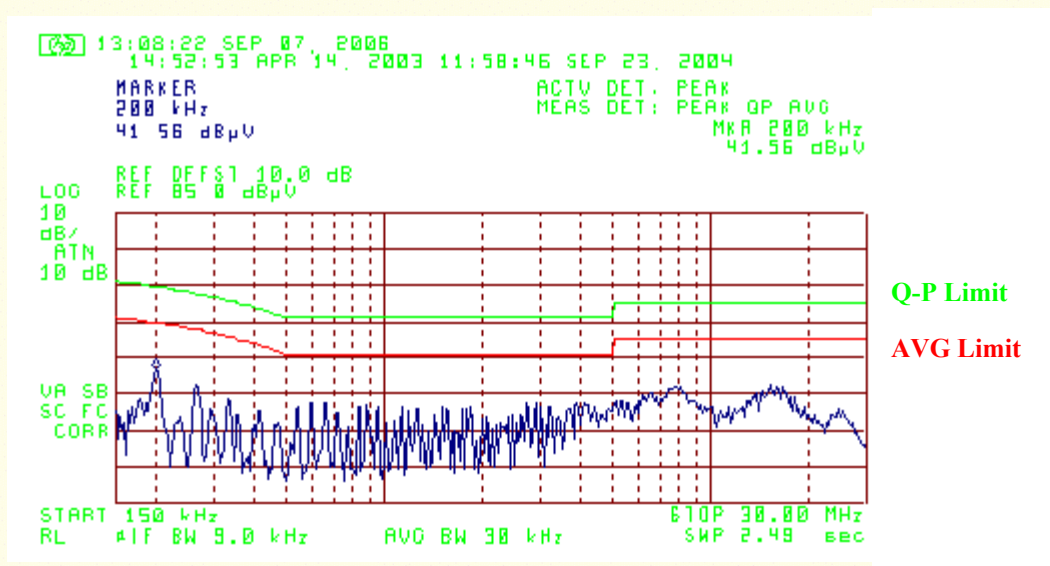


AC Power Port – Conducted Emissions Test Results (Continued)

Continuously Transmitting @ 120VAC/60Hz (INTEL-061107-01)

FCC CLASS B 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)
0.2000	41.56	PK	54.57	-13.01	64.57	-23.01
0.2700	37.40	PK	52.57	-15.17	62.57	-25.17
0.3300	33.69	PK	50.86	-17.17	60.86	-27.17
4.1300	32.63	PK	46.00	-13.37	56.00	-23.37
7.6800	36.91	PK	50.00	-13.09	60.00	-23.09
15.2200	37.46	PK	50.00	-12.54	60.00	-22.54





RADIATED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	09/07/06
EUT:	Intel PRO/Wireless 4965AG_ Network Connection	PROJECT NUMBER:	INTEL-061107
MODEL NUMBER:	4965AG_	TEST ENGINEER:	JC
SERIAL NUMBER:	0013E804612B	SITE #:	1
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	TEMPERATURE:	22 deg. C
		HUMIDITY:	49%
		TIME:	2:15 PM

Description:	Radiated RF Emissions (30 MHz – 1000 MHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	Radiated Emissions Measurements were performed on the EUT with the power supply set at the following voltage and frequency. <ul style="list-style-type: none">• 120VAC / 60 Hz.

Radiated Emissions Sample Calculations

Corrected Meter Reading = Meter Reading + F + C - D

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

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

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



Radiated Emissions Test Results (Continued)

Continuously Transmitting @ 120VAC/60Hz (INTEL-061107-03)

Horizontal Open Field Maximized Data

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Cable Factor (dB)	Cable Factor (dB)	Antenna Factor (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Diff (dB) +=FAIL
48.02	8.58	400	45			2.65	10.32	10.46	32.01	40.00	-7.99
120.00	14.23	400	90	11.03	Q	2.39	11.20	10.46	35.08	43.50	-8.42
250.01	10.96	350	90			2.91	17.40	10.46	41.73	46.00	-4.27
305.09	11.32	300	270			3.07	14.49	10.46	39.33	46.00	-6.67
375.00	10.53	250	45			3.35	15.10	10.46	39.44	46.00	-6.57
386.00	11.63	225	45			3.39	15.54	10.46	41.02	46.00	-4.98

Vertical Open Field Maximized Data

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Cable Factor (dB)	Cable Factor (dB)	Antenna Factor (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Diff (dB) +=FAIL
48.01	11.12	100	45			2.65	10.52	10.46	34.75	40.00	-5.25
119.98	18.40	100	90	14.65	Q	2.39	10.80	10.46	38.30	43.50	-5.20
250.03	8.51	100	45			2.91	18.30	10.46	40.18	46.00	-5.82
306.35	13.06	100	45			3.07	14.78	10.46	41.37	46.00	-4.63
358.01	7.94	100	0			3.27	15.44	10.46	37.11	46.00	-8.89
375.05	8.85	100	90			3.35	15.30	10.46	37.96	46.00	-8.04
386.01	15.71	100	180	13.62	Q	3.39	15.61	10.46	43.08	46.00	-2.92



RADIATED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	09/18/06
EUT:	Intel PRO/Wireless 4965AG_ Network Connection	PROJECT NUMBER:	INTEL-061107
MODEL NUMBER:	4965AG_	TEST ENGINEER:	BM/JC
SERIAL NUMBER:	0013E804612B	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot in 802.11a (5150-5350 MHz) mode with Ethertronics Antennas.	TEMPERATURE:	20 deg. C
		HUMIDITY:	48% RH
		TIME:	9:00 PM

Description:	Radiated RF Emissions (1 GHz – 18 GHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none">120VAC / 60 Hz.

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 74.00 (Peak)	< -20 dBc

Radiated Emissions Sample Calculations

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

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

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

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



Radiated Emissions Test Results (Continued)

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

Channels 36, 48, 52, & 64

Continuous TX at Chain A Antenna port with Ethertronics Antennas

Aegis Labs, Inc. File #: INTEL-061107-20

RADIATED EMISSIONS - Horizontal Antenna Polarization

<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>		<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>	<i>Comments</i>
5180.00	65.17	100	225			4.73	34.62	104.53			Ch. 36
5180.00				55.27	A	4.73	34.62	94.63			
5240.00	69.83	125	225			4.76	34.73	109.32			Ch. 48
5240.00				60.00	A	4.76	34.73	99.49			
5260.00	68.33	125	225			4.77	34.77	107.87			Ch. 52
5260.00				56.90	A	4.77	34.77	96.44			
5320.00	67.17	125	225			4.80	34.88	106.84			Ch. 64
5320.00				56.34	A	4.80	34.88	96.01			

RADIATED EMISSIONS – Vertical Antenna Polarization

<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>		<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>	<i>Comments</i>
5180.00	64.00	100	225			4.73	34.39	103.12			Ch. 36
5180.00				54.10	A	4.73	34.39	93.22			
5240.00	67.33	100	135			4.76	34.48	106.57			Ch. 48
5240.00				56.51	A	4.76	34.48	95.75			
5260.00	66.33	100	135			4.77	34.52	105.62			Ch. 52
5260.00				55.92	A	4.77	34.52	95.21			
5320.00	66.17	125	135			4.80	34.61	105.58			Ch. 64
5320.00				55.91	A	4.80	34.61	95.32			

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



Radiated Emissions Test Results (Continued)

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

Channels 36 & 64

Continuous TX at Chain A Antenna port with Ethertronics Antennas

Aegis Labs, Inc. File #: INTEL-061107-20

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)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
5150.00							62.53	74.00	-11.47	Ch. 36
5150.00				A			49.96	54.00	-4.04	
5350.00							64.34	74.00	-9.66	Ch. 64
5350.00				A			50.34	54.00	-3.66	

RADIATED EMISSIONS – Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
5150.00							61.12	74.00	-12.88	Ch. 36
5150.00				A			48.55	54.00	-5.45	
5350.00							63.08	74.00	-10.92	Ch. 64
5350.00				A			49.65	54.00	-4.35	

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

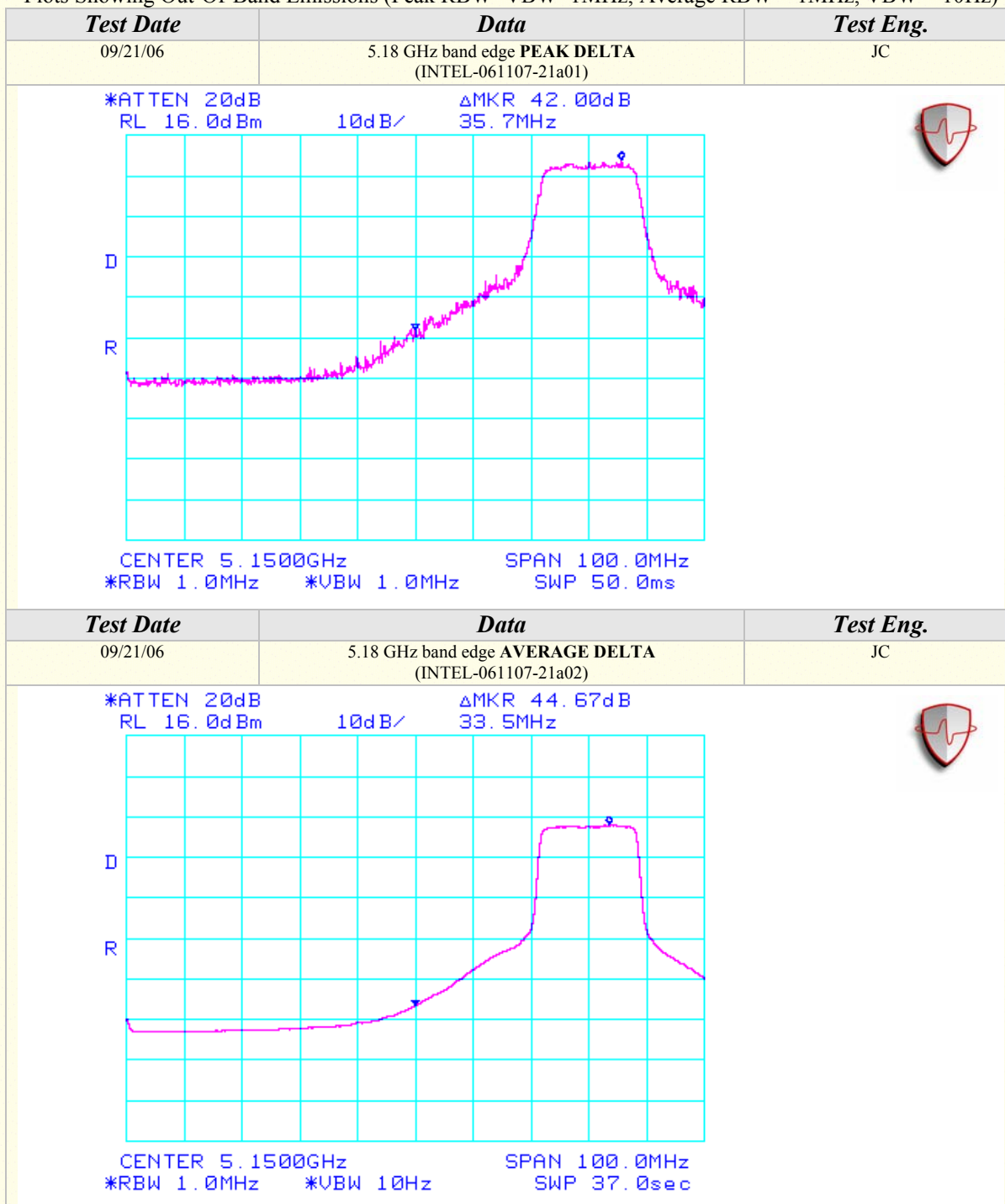
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

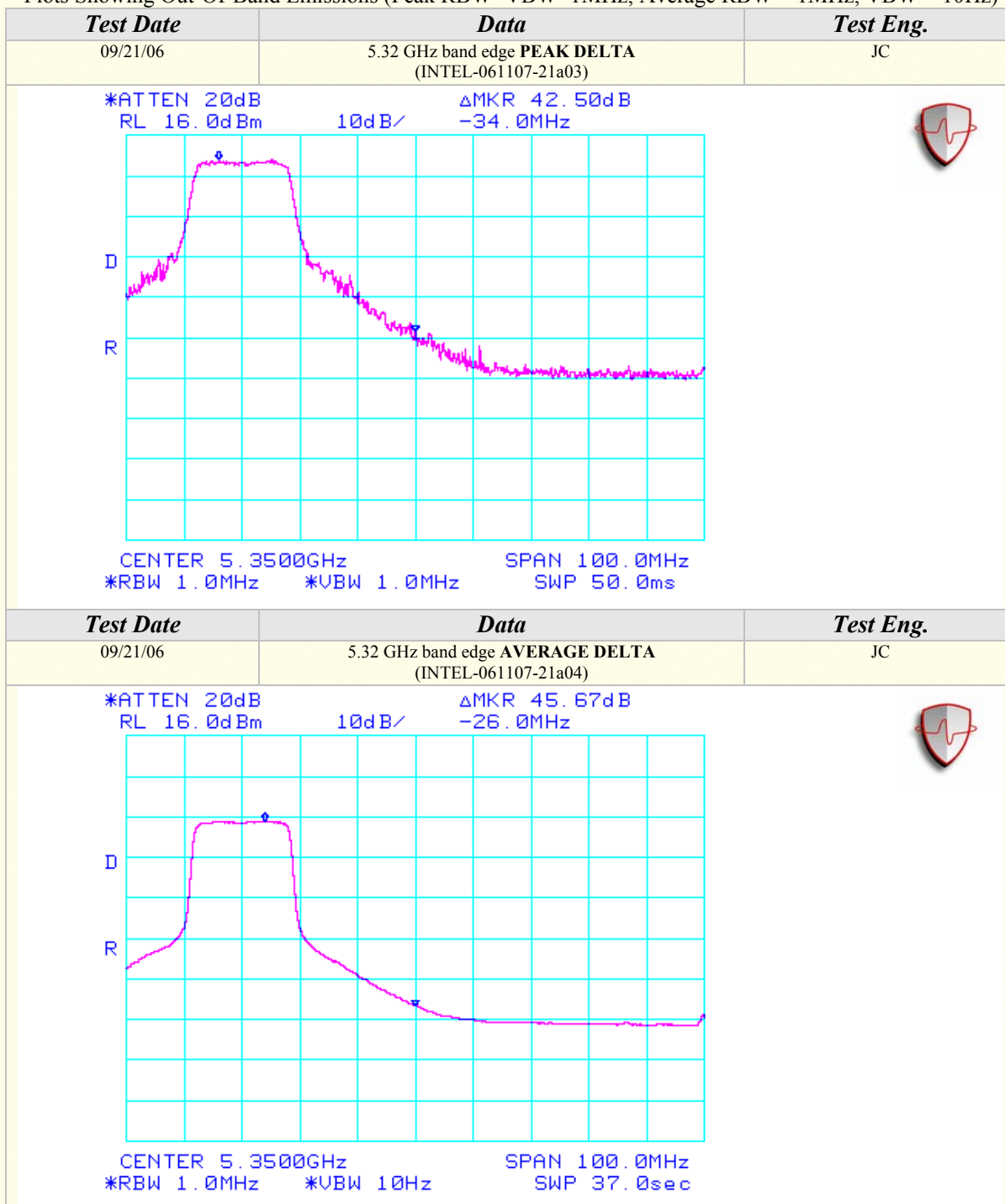
Radiated Emissions Test Results (Continued)

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



Radiated Emissions Test Results (Continued)

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





Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 36, 52, & 64
Continuous TX at Chain A Antenna port with Ethertronics Antennas
Aegis Labs, Inc. File #: INTEL-061107-19

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	Comments
3453.33	62.17	100	225			50.78	3.84	32.29	47.52	68.00	-20.48	Ch. 36
6906.66	63.67	100	135			50.50	5.49	35.91	54.56	68.00	-13.44	
10360.01	63.17	100	135			50.39	6.86	38.62	58.26	68.00	-9.74	
3506.66	58.67	125	225			50.76	3.87	32.41	44.20	68.00	-23.80	Ch. 52
7013.40	61.33	100	225			50.42	5.54	36.03	52.48	68.00	-15.52	
3546.66	57.17	150	225			50.76	3.90	32.50	42.81	68.00	-25.19	Ch.64
7093.55	61.33	125	225			50.38	5.57	36.24	52.76	68.00	-15.24	

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	Comments
3453.33	58.67	125	135			50.78	3.84	31.80	43.53	68.00	-24.47	Ch. 36
6906.66	64.33	100	225			50.50	5.49	35.83	55.14	68.00	-12.86	
3506.16	57.00	100	225			50.76	3.87	31.92	42.03	68.00	-25.97	Ch. 52
7013.39	64.50	100	225			50.42	5.54	35.93	55.55	68.00	-12.45	
3546.74	58.67	100	225			50.76	3.90	32.02	43.82	68.00	-24.18	Ch.64
7093.55	61.83	100	225			50.38	5.57	36.14	53.16	68.00	-14.84	
10640.00	65.33	100	135			50.44	6.96	38.73	60.58	74.00	-13.42	
10640.00				51.86	A	50.44	6.96	38.73	47.11	54.00	-6.89	



Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 36, 52, & 64
Continuous RX at Chain A Antenna port with Ethertronics Antennas
Aegis Labs, Inc. File #: INTEL-061107-19

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	Comments
3453.33	57.83	100	225			50.78	3.84	32.29	43.18	74.00	-30.82	Ch. 36
3453.33				50.62	A	50.78	3.84	32.29	35.97	54.00	-18.03	
6906.66	56.50	100	225			50.50	5.49	35.91	47.39	74.00	-26.61	
6906.66				46.92	A	50.50	5.49	35.91	37.81	54.00	-16.19	
3506.66	57.00	125	225			50.76	3.87	32.41	42.53	74.00	-31.47	Ch. 52
3506.66				48.47	A	50.76	3.87	32.41	34.00	54.00	-20.00	
3546.66	57.17	100	225			50.76	3.90	32.50	42.81	74.00	-31.19	Ch.64
3546.66				48.85	A	50.76	3.90	32.50	34.49	54.00	-19.51	

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	Comments
3453.33	57.00	100	135			50.78	3.84	31.80	41.86	74.00	-32.14	Ch. 36
3453.33				50.46	A	50.78	3.84	31.80	35.32	54.00	-18.68	
6906.71	54.83	100	225			50.50	5.49	35.83	45.64	74.00	-28.36	
6906.71				47.32	A	50.50	5.49	35.83	38.13	54.00	-15.87	
3506.68	57.83	100	135			50.76	3.87	31.92	42.86	74.00	-31.14	Ch. 52
3506.68				51.25	A	50.76	3.87	31.92	36.28	54.00	-17.72	
3546.66	56.67	100	135			50.76	3.90	32.02	41.82	74.00	-32.18	Ch.64
3546.66				49.84	A	50.76	3.90	32.02	34.99	54.00	-19.01	



Radiated Emissions Test Results (Continued)

Fundamental Measurements in 802.11a mode (5150-5350 MHz)
Channels 36, 48, 52, & 64
Continuous TX at Chain B Antenna port with Ethertronics Antennas
Aegis Labs, Inc. File #: INTEL-061107-24

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)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
5180.00	68.50	100	225			4.73	34.62	107.86			Ch. 36
5180.00				57.31	A	4.73	34.62	96.67			
5240.00	69.83	100	135			4.76	34.73	109.32			Ch. 48
5240.00				59.74	A	4.76	34.73	99.23			
5260.00	69.00	100	135			4.77	34.77	108.54			Ch. 52
5260.00				58.78	A	4.77	34.77	98.32			
5320.00	67.50	100	135			4.80	34.88	107.17			Ch. 64
5320.00				56.46	A	4.80	34.88	96.13			

RADIATED EMISSIONS – Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
5180.00	65.83	175	180			4.73	34.39	104.95			Ch. 36
5180.00				55.72	A	4.73	34.39	94.84			
5240.00	70.50	100	180			4.76	34.48	109.74			Ch. 48
5240.00				60.32	A	4.76	34.48	99.56			
5260.00	70.33	100	225			4.77	34.52	109.62			Ch. 52
5260.00				60.77	A	4.77	34.52	100.06			
5320.00	69.83	100	225			4.80	34.61	109.24			Ch. 64
5320.00				56.90	A	4.80	34.61	96.31			

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



Radiated Emissions Test Results (Continued)

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

Channels 36 & 64

Continuous TX at Chain B Antenna port with Ethertronics Antennas

Aegis Labs, Inc. File #: INTEL-061107-24

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)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
5150.00							68.03	74.00	-5.97	Ch. 36
5150.00				A			53.34	54.00	-0.66	
5350.00							66.84	74.00	-7.16	Ch. 64
5350.00				A			51.47	54.00	-2.53	

RADIATED EMISSIONS – Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL	Comments
5150.00							65.12	74.00	-8.88	Ch. 36
5150.00				A			51.51	54.00	-2.49	
5350.00							68.91	74.00	-5.09	Ch. 64
5350.00				A			51.65	54.00	-2.35	

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

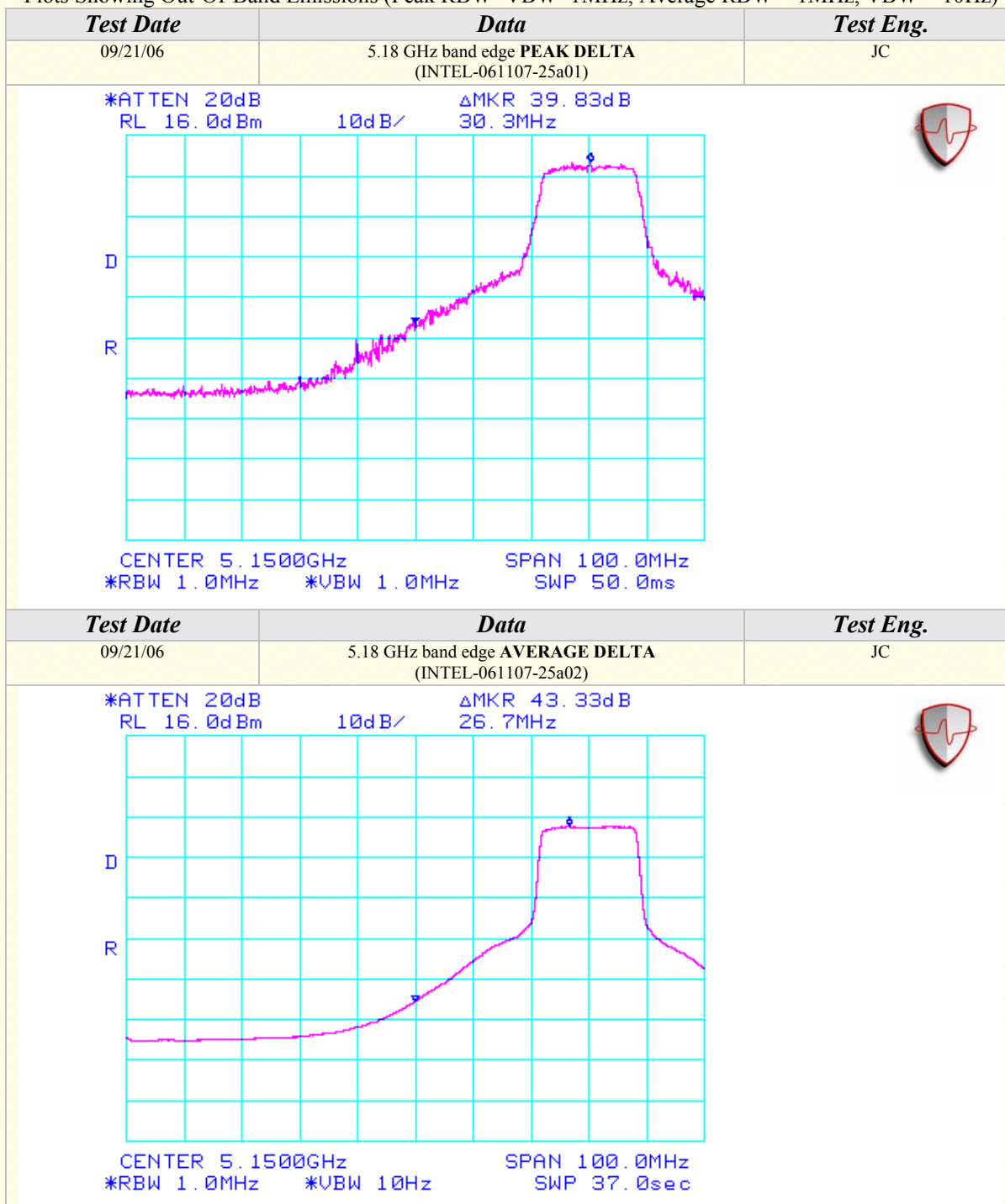
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

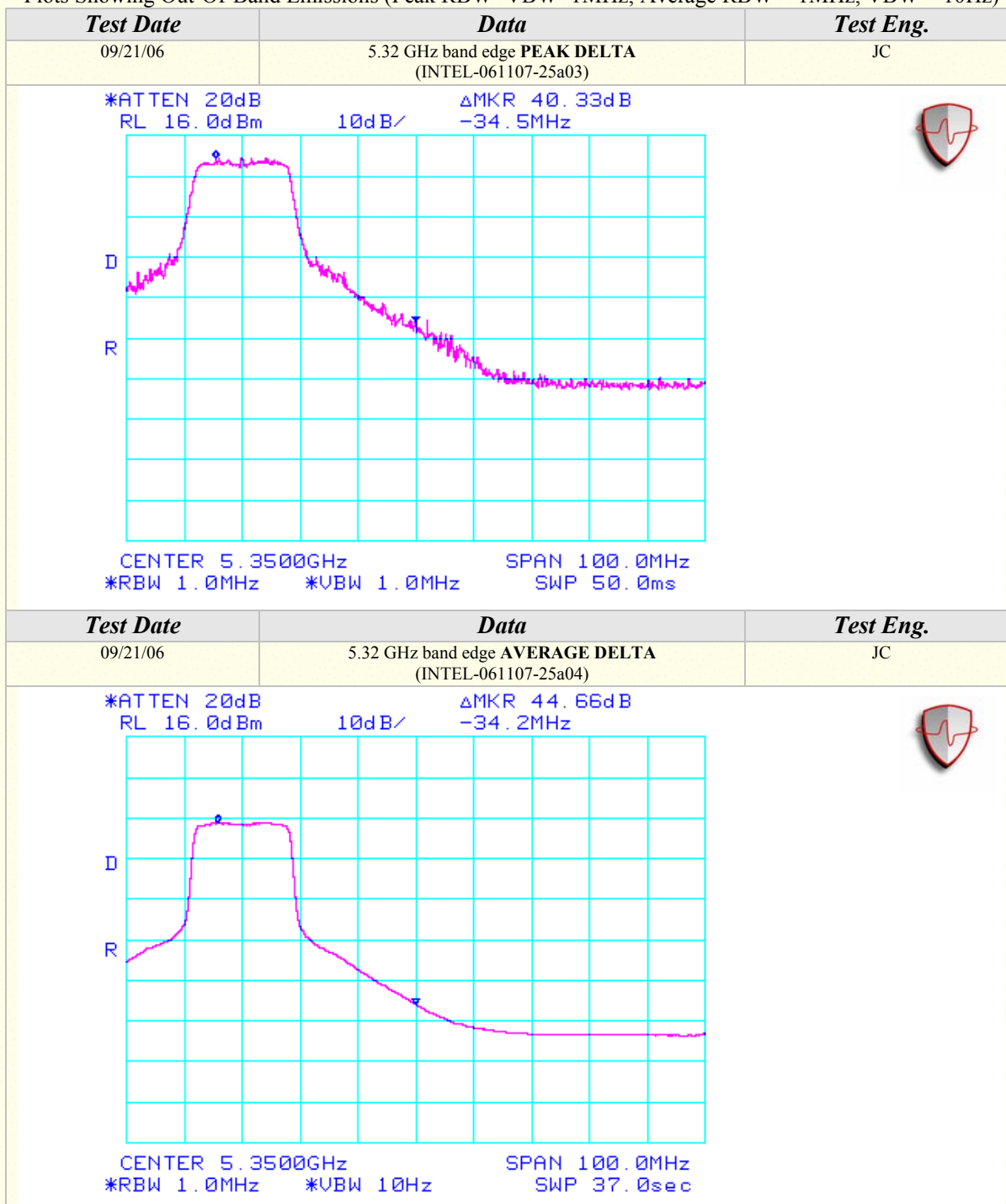
Radiated Emissions Test Results (Continued)

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



Radiated Emissions Test Results (Continued)

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





Radiated Emissions Test Results (Continued)

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

Channels 36, 52, & 64

Continuous TX at Chain B Antenna port with Ethertronics Antennas

Aegis Labs, Inc. File #: INTEL-061107-22

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	Comments
3453.33	61.00	100	225			50.78	3.84	32.29	46.35	68.00	-21.65	Ch. 36
6906.66	63.33	100	135			50.50	5.49	35.91	54.22	68.00	-13.78	
10360.01	65.00	100	180			50.39	6.86	38.62	60.09	74.00	-13.91	
10360.01				51.86	A	50.39	6.86	38.62	46.95	54.00	-7.05	
3506.66	62.33	100	225			50.76	3.87	32.41	47.86	68.00	-20.14	Ch. 52
7013.40	62.00	100	135			50.42	5.54	36.03	53.15	68.00	-14.85	
10520.00	63.83	100	225			50.43	6.93	38.71	59.03	74.00	-14.97	
10520.00				50.28	A	50.43	6.93	38.71	45.48	54.00	-8.52	
3546.66	59.83	100	225			50.76	3.90	32.50	45.47	68.00	-22.53	Ch.64
7093.55	56.83	100	225			50.38	5.57	36.24	48.26	68.00	-19.74	
10640.00	62.67	100	225			50.44	6.96	38.76	57.95	74.00	-16.05	
10640.00				50.92	A	50.44	6.96	38.76	46.20	54.00	-7.80	

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	Comments
3453.33	60.67	125	135			50.78	3.84	31.80	45.53	68.00	-22.47	Ch. 36
6906.66	64.50	100	180			50.50	5.49	35.83	55.31	68.00	-12.69	
10360.00	66.50	100	225			50.39	6.86	38.59	61.56	74.00	-12.44	
10360.00				55.41	A	50.39	6.86	38.59	50.47	54.00	-3.53	
3506.16	59.00	125	180			50.76	3.87	31.92	44.03	68.00	-23.97	Ch. 52
7013.39	61.00	100	135			50.42	5.54	35.93	52.05	68.00	-15.95	
10520.01	65.67	100	225			50.43	6.93	38.70	60.87	74.00	-13.13	
10520.01				54.58	A	50.43	6.93	38.70	49.78	54.00	-4.22	
3546.74	59.17	100	180			50.76	3.90	32.02	44.32	68.00	-23.68	Ch.64
7093.55	58.83	100	225			50.38	5.57	36.14	50.16	68.00	-17.84	
10640.00	69.33	100	225			50.44	6.96	38.73	64.58	74.00	-9.42	
10640.00				55.29	A	50.44	6.96	38.73	50.54	54.00	-3.46	



Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 36, 52, & 64
Continuous RX at Chain B Antenna port with Ethertronics Antennas
Aegis Labs, Inc. File #: INTEL-061107-22

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	Comments
3453.33	57.83	100	225			50.78	3.84	32.29	43.18	74.00	-30.82	Ch. 36
3453.33				50.92	A	50.78	3.84	32.29	36.27	54.00	-17.73	
3506.66	58.33	100	225			50.76	3.87	32.41	43.86	74.00	-30.14	Ch. 52
3506.66				50.38	A	50.76	3.87	32.41	35.91	54.00	-18.09	
3546.66	57.00	100	225			50.76	3.90	32.50	42.64	74.00	-31.36	Ch.64
3546.66				48.32	A	50.76	3.90	32.50	33.96	54.00	-20.04	

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	Comments
3453.33	57.33	100	135			50.78	3.84	31.80	42.19	74.00	-31.81	Ch. 36
3453.33				48.32	A	50.78	3.84	31.80	33.18	54.00	-20.82	
3506.68	58.83	100	225			50.76	3.87	31.92	43.86	74.00	-30.14	Ch. 52
3506.68				50.83	A	50.76	3.87	31.92	35.86	54.00	-18.14	
3546.66	57.17	125	225			50.76	3.90	32.02	42.32	74.00	-31.68	Ch.64
3546.66				49.29	A	50.76	3.90	32.02	34.44	54.00	-19.56	



PEAK TRANSMIT POWER

CLIENT:	Intel Corporation	DATE:	09/29/06
EUT:	Intel PRO/Wireless 4965AG_ Network Connection	PROJECT NUMBER:	INTEL-061107
MODEL NUMBER:	4965AG_	TEST ENGINEER:	BM/JC
SERIAL NUMBER:	0013E804612B	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	TEMPERATURE:	22 deg. C
		HUMIDITY:	36% RH
		TIME:	5:00 PM

Description:	<p>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 $4 \text{ dBm} + 10\log B$, where B is the 26-dB emission bandwidth in MHz.</p> <p>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 $11 \text{ dBm} + 10\log B$, where B is the 26-dB emission bandwidth in MHz.</p>
Results:	Passed (See Data Sheet)
Note:	<p>Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency.</p> <ul style="list-style-type: none">120VAC / 60 Hz.



Peak Transmit Power (Continued)

Mode	Channel	Frequency (MHz)	Chain	Data Rate (Mbps)	Average Power (dBm)	Average Power (mW)	Peak Power (dBm)	Peak Power (mW)
802.11a	36	5180	A	6	16.38	43.45	16.61	45.81
802.11a	48	5240	A	6	17.46	55.71	16.81	47.97
802.11a	52	5260	A	6	17.50	56.23	18.61	72.60
802.11a	64	5320	A	6	16.46	44.25	18.41	69.34
802.11a	36	5180	B	6	16.43	43.95	16.81	47.97
802.11a	48	5240	B	6	17.42	55.20	16.91	49.09
802.11a	52	5260	B	6	17.57	57.14	19.41	87.29
802.11a	64	5320	B	6	16.54	45.08	19.11	81.46

NOTE: The output power measurement is conducted.



CONDUCTED BAND EDGE EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	09/29/06
EUT:	Intel PRO/Wireless 4965AG_ Network Connection	PROJECT NUMBER:	INTEL-061107
MODEL NUMBER:	4965AG_	TEST ENGINEER:	BM/JC
SERIAL NUMBER:	0013E804612B	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	TEMPERATURE:	22 deg. C
		HUMIDITY:	36% RH
		TIME:	5:00 PM

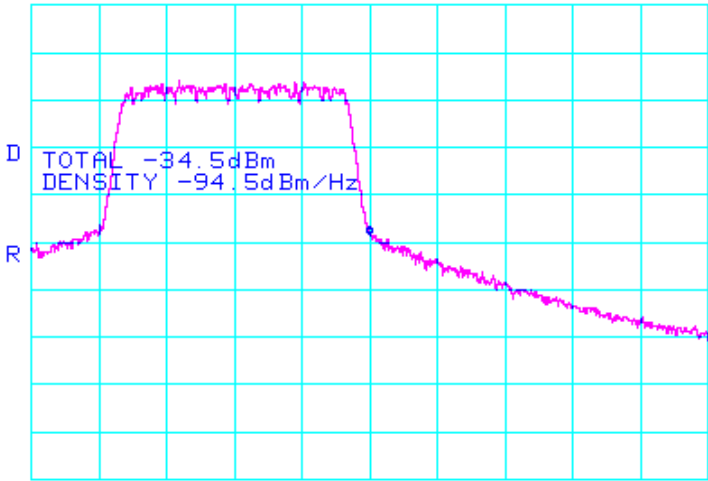
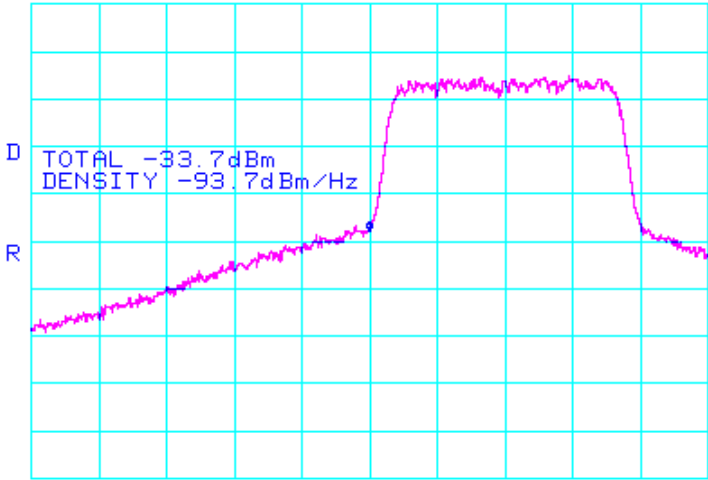
Description:	For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for 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:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none">120VAC / 60 Hz.

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

Freq. (MHz)	Power Spec Den. Reading (dBm/Hz)	Antenna Gain (dBi)	Corrected Reading (dBm/Hz)	Limits (dBm/Hz)	Diff (dB) +=FAIL	Comments
With Ethertronics Antennas (Gain at 5GHz) Transmitting on Chain A						
5250.00	-34.50	5.00	-29.50	-27.00	-2.50	Tx @ 5240 MHz
5250.00	-33.70	5.00	-28.70	-27.00	-1.70	Tx @ 5260 MHz
With Ethertronics Antennas (Gain at 5GHz) Transmitting on Chain B						
5250.00	-34.50	5.00	-29.50	-27.00	-2.50	Tx @ 5240 MHz
5250.00	-33.70	5.00	-28.70	-27.00	-1.70	Tx @ 5260 MHz

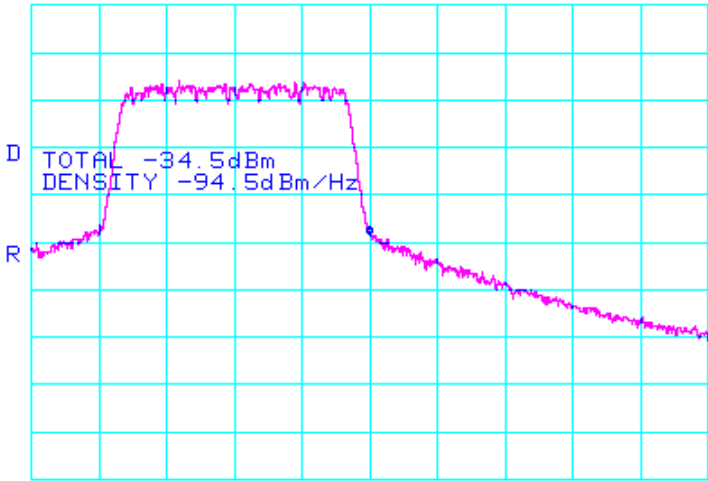
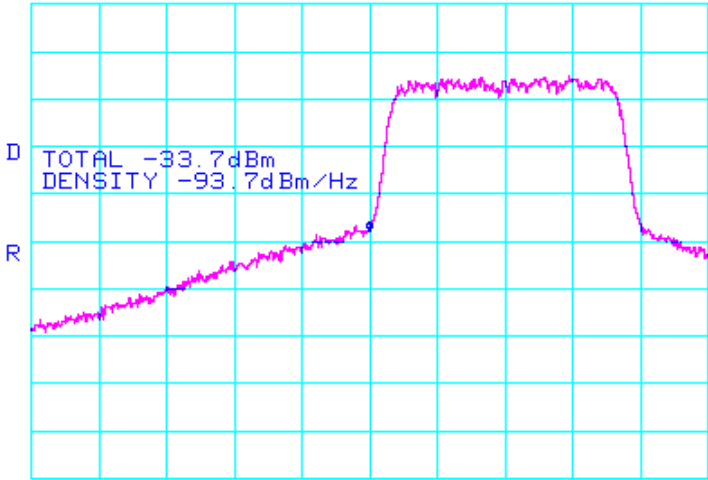
Conducted Band Edge Emissions Test Results (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.24 GHz band edge (INTEL-061107-25g01)	A	JC
<p>*ATTEN 20dB VAVG 100 MKR -32.50dBm RL 16.0dBm 10dB/ 5.25000GHz</p>  <p>D TOTAL -34.5dBm DENSITY -94.5dBm/Hz</p> <p>R</p> <p>CENTER 5.25000GHz SPAN 50.00MHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</p>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz band edge (INTEL-061107-25g02)	A	JC
<p>*ATTEN 20dB VAVG 100 MKR -31.83dBm RL 16.0dBm 10dB/ 5.25000GHz</p>  <p>D TOTAL -33.7dBm DENSITY -93.7dBm/Hz</p> <p>R</p> <p>CENTER 5.25000GHz SPAN 50.00MHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</p>			

Conducted Band Edge Emissions Test Results (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.24 GHz band edge (INTEL-061107-25g03)	B	JC
<p>*ATTEN 20dB VAVG 100 MKR -32.50dBm RL 16.0dBm 10dB/ 5.25000GHz</p>  <p>CENTER 5.25000GHz SPAN 50.00MHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</p>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz band edge (INTEL-061107-25g04)	B	JC
<p>*ATTEN 20dB VAVG 100 MKR -31.83dBm RL 16.0dBm 10dB/ 5.25000GHz</p>  <p>CENTER 5.25000GHz SPAN 50.00MHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</p>			



26dB EMISSIONS BANDWIDTH

CLIENT:	Intel Corporation	DATE:	09/20/06
EUT:	Intel PRO/Wireless 4965AG_ Network Connection	PROJECT NUMBER:	INTEL-061107
MODEL NUMBER:	4965AG_	TEST ENGINEER:	JC
SERIAL NUMBER:	0013E804612B	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	TEMPERATURE:	21 deg. C
		HUMIDITY:	42% RH
		TIME:	9:15 AM

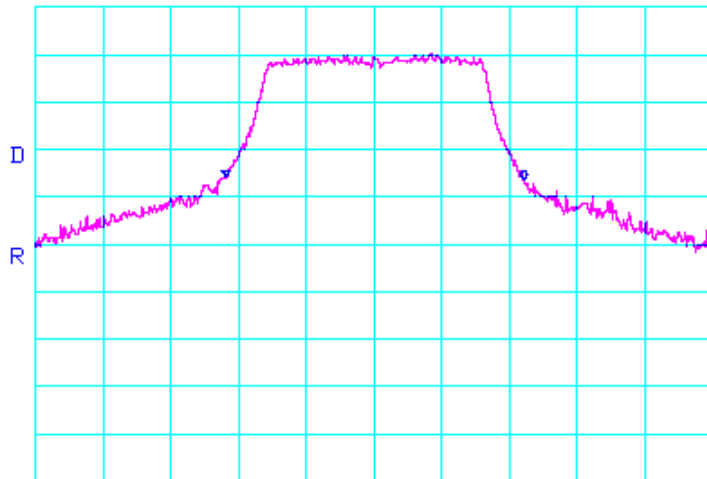
Description:	26dB emissions bandwidth in MHz.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none">• 120VAC / 60 Hz.

26dB Emissions Bandwidth (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25b01)	A	JC

*ATTEN 20dB
RL 16.0dBm 10dB/ ΔMKR -.66dB
22.00MHz

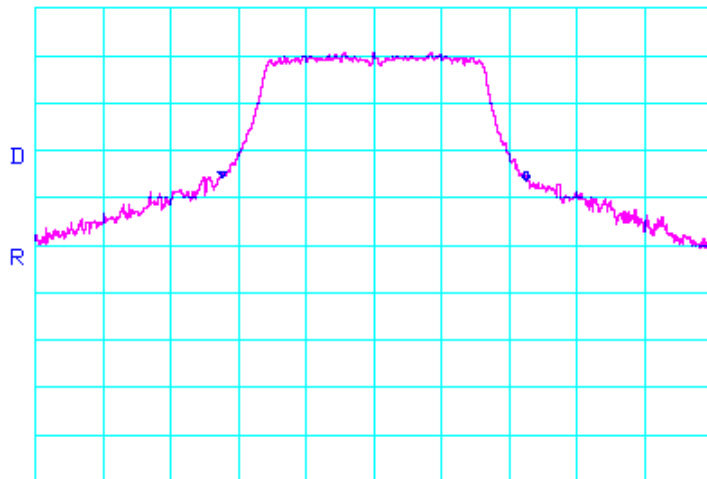


CENTER 5.18000GHz SPAN 50.00MHz
*RBW 300kHz *VBW 1.0MHz SWP 50.0ms



Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25b02)	A	JC

*ATTEN 20dB
RL 16.0dBm 10dB/ ΔMKR -.83dB
22.42MHz

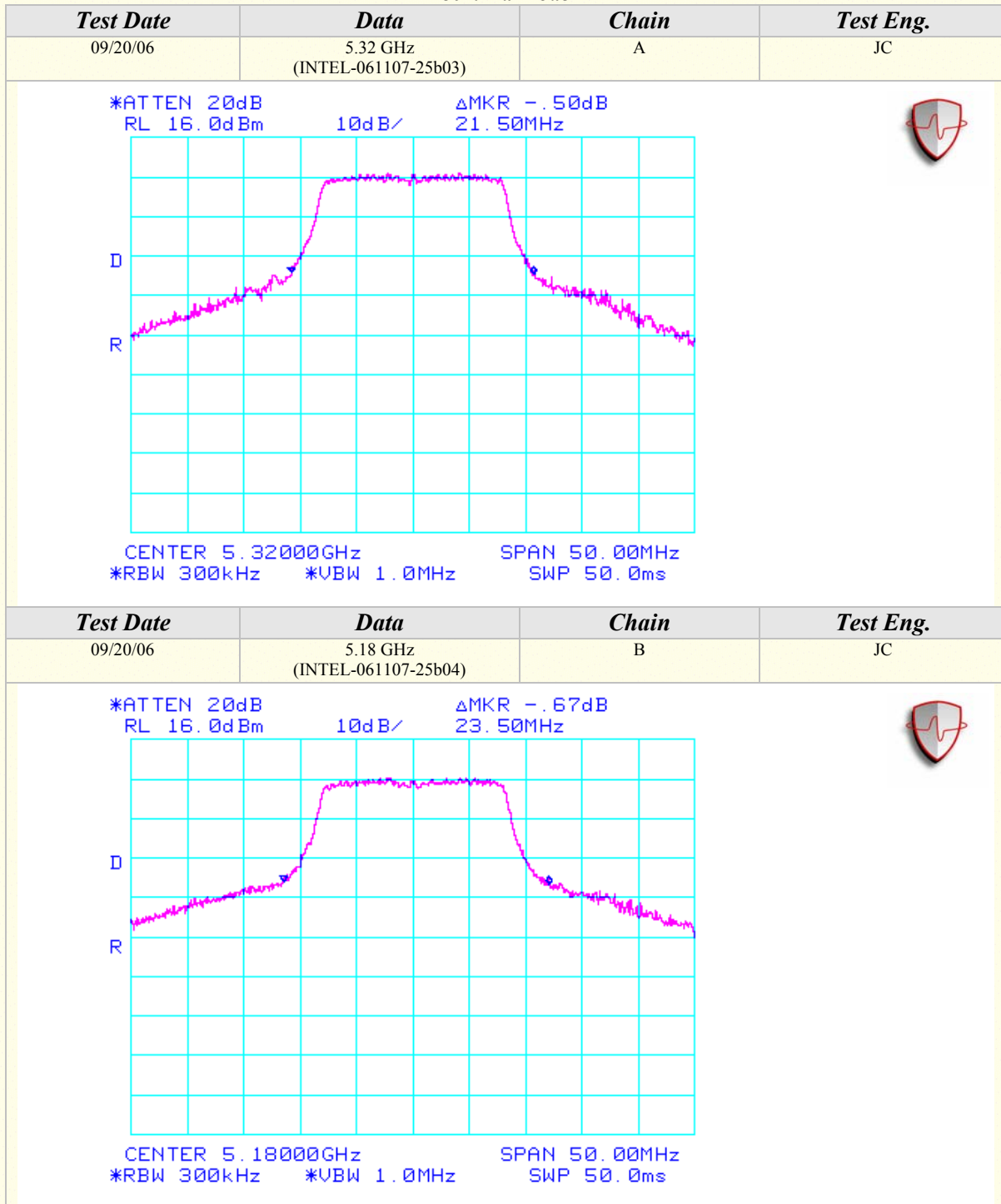


CENTER 5.26000GHz SPAN 50.00MHz
*RBW 300kHz *VBW 1.0MHz SWP 50.0ms



26dB Emissions Bandwidth (Continued)

802.11a Mode

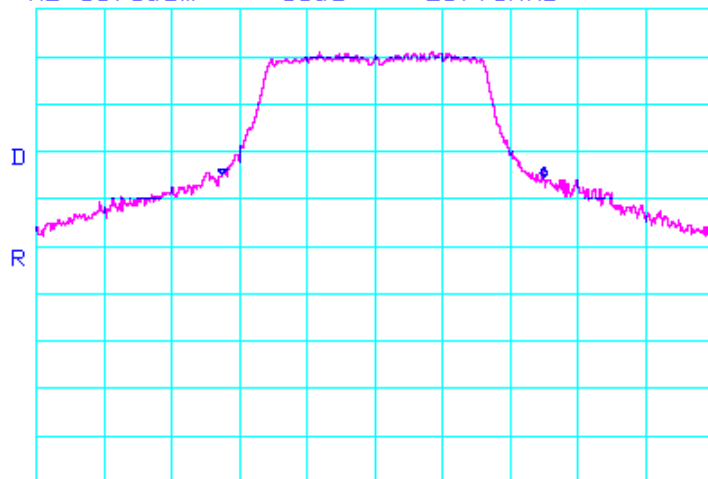


26dB Emissions Bandwidth (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25b05)	B	JC

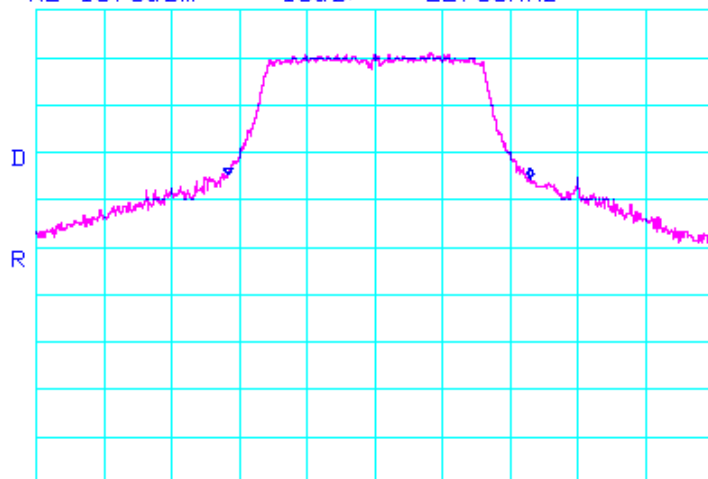
*ATTEN 20dB
RL 16.0dBm 10dB/ 23.75MHz
ΔMKR -.50dB



CENTER 5.26000GHz SPAN 50.00MHz
*RBW 300kHz *VBW 1.0MHz SWP 50.0ms

Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25b06)	B	JC

*ATTEN 20dB
RL 16.0dBm 10dB/ 22.33MHz
ΔMKR -.83dB



CENTER 5.32000GHz SPAN 50.00MHz
*RBW 300kHz *VBW 1.0MHz SWP 50.0ms



PEAK POWER SPECTRAL DENSITY

CLIENT:	Intel Corporation	DATE:	09/20/06
EUT:	Intel PRO/Wireless 4965AG_ Network Connection	PROJECT NUMBER:	INTEL-061107
MODEL NUMBER:	4965AG_	TEST ENGINEER:	JC
SERIAL NUMBER:	0013E804612B	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	TEMPERATURE:	21 deg. C
		HUMIDITY:	42% RH
		TIME:	9:15 AM

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 Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none">• 120VAC / 60 Hz.

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

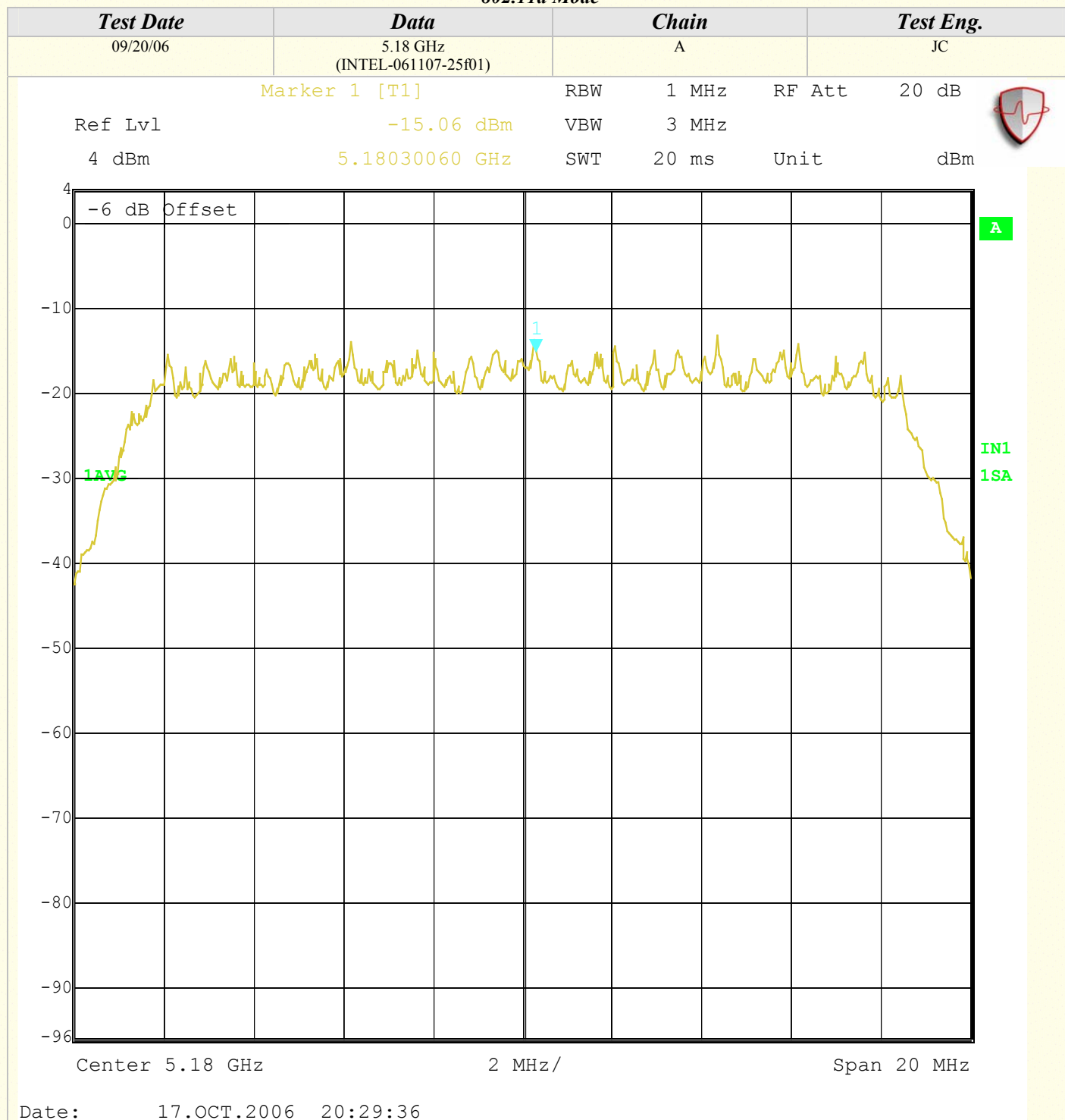
Using "Method 1" of the FCC Public Notice (DA 02-2138) for 5250-5350MHz band

Using "Method 2" of the FCC Public Notice (DA 02-2138) for 5150-5250MHz band



Peak Power Spectral Density (Continued)

802.11a Mode



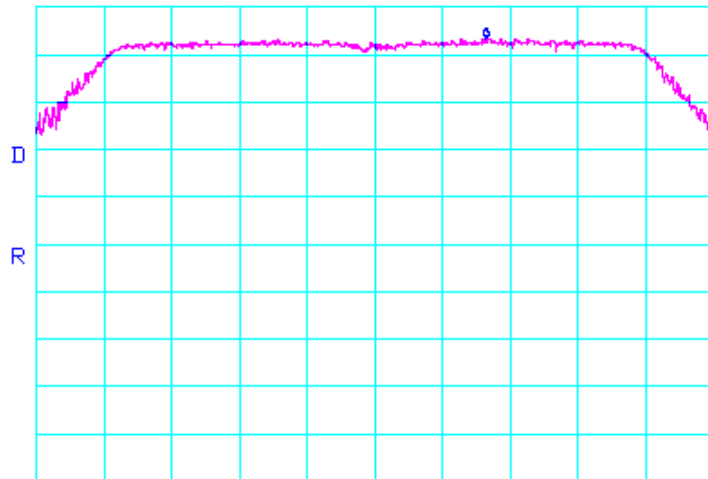


Peak Power Spectral Density (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25f02)	A	JC

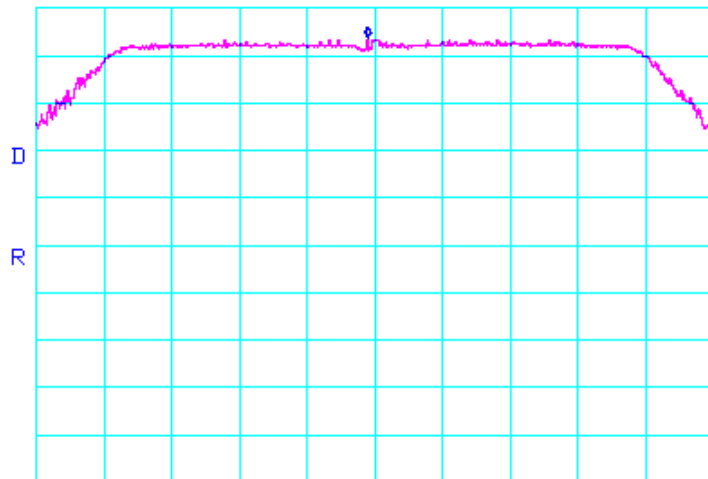
*ATTEN 20dB
RL 16.0dBm 10dB/ MKR 9.50dBm
5.26330GHz



CENTER 5.26000GHz SPAN 20.00MHz
*RBW 1.0MHz *VBW 3.0MHz SWP 50.0ms

Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25f03)	A	JC

*ATTEN 20dB
RL 16.0dBm 10dB/ MKR 9.83dBm
5.31980GHz

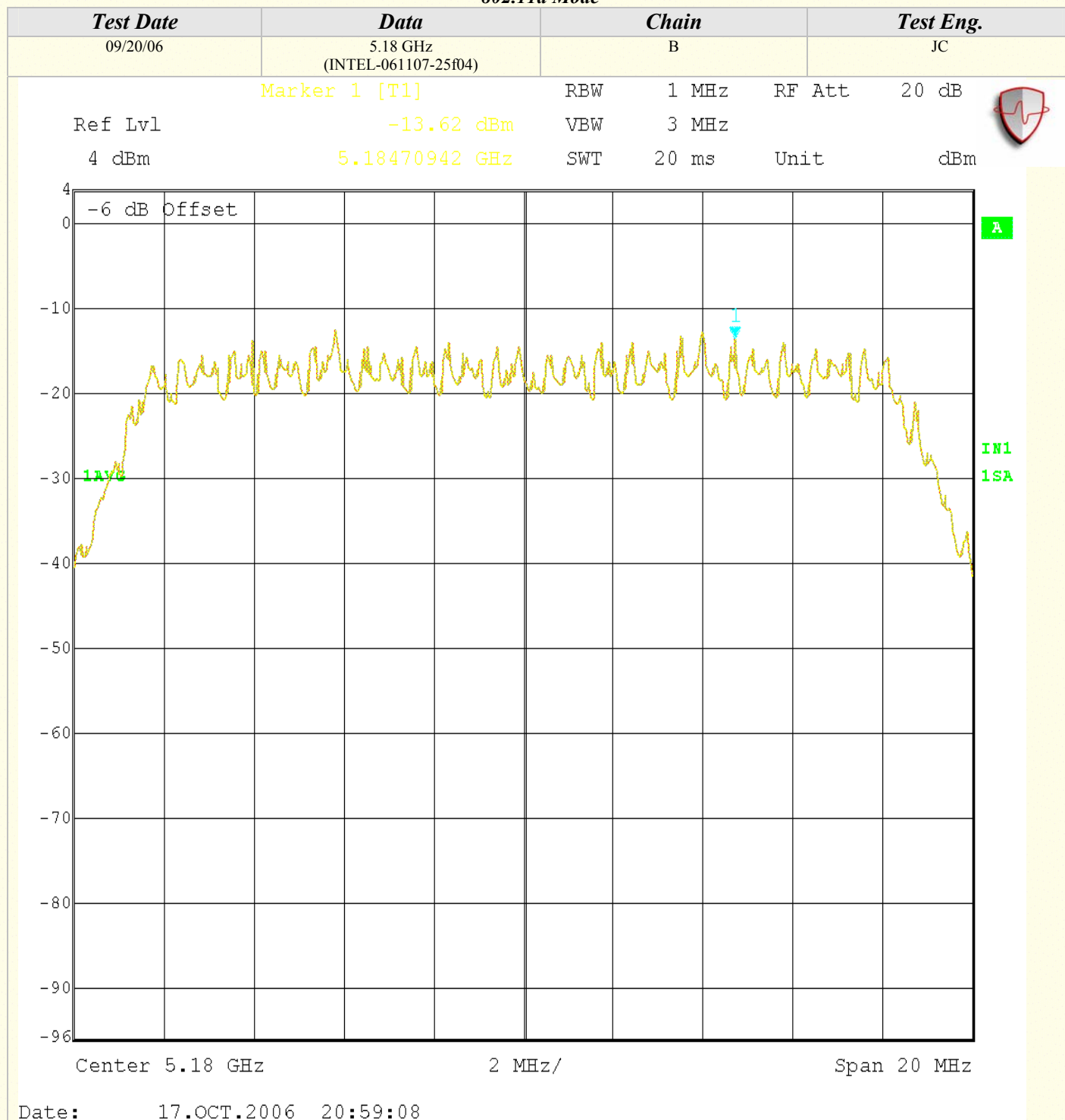


CENTER 5.32000GHz SPAN 20.00MHz
*RBW 1.0MHz *VBW 3.0MHz SWP 50.0ms



Peak Power Spectral Density (Continued)

802.11a Mode



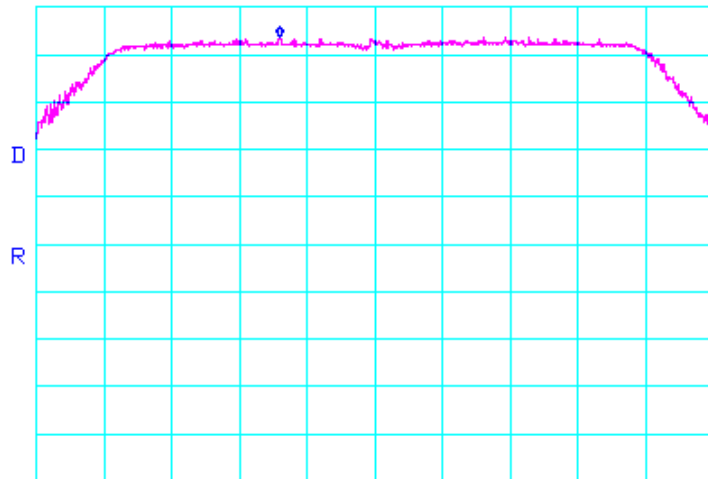


Peak Power Spectral Density (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25f05)	B	JC

*ATTEN 20dB
RL 16.0dBm 10dB/ MKR 9.83dBm
5.25720GHz

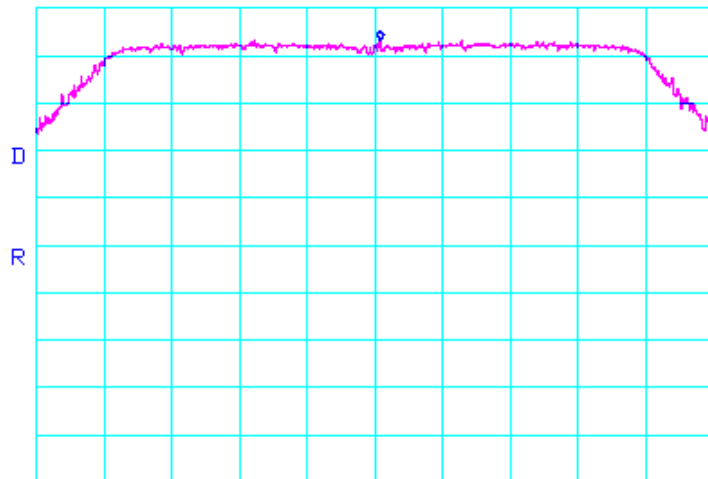


CENTER 5.26000GHz SPAN 20.00MHz
*RBW 1.0MHz *VBW 3.0MHz SWP 50.0ms



Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25f06)	B	JC

*ATTEN 20dB
RL 16.0dBm 10dB/ MKR 9.33dBm
5.32017GHz



CENTER 5.32000GHz SPAN 20.00MHz
*RBW 1.0MHz *VBW 3.0MHz SWP 50.0ms





PEAK EXCURSION

CLIENT:	Intel Corporation	DATE:	09/20/06
EUT:	Intel PRO/Wireless 4965AG_ Network Connection	PROJECT NUMBER:	INTEL-061107
MODEL NUMBER:	4965AG_	TEST ENGINEER:	JC
SERIAL NUMBER:	0013E804612B	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	TEMPERATURE:	21 deg. C
		HUMIDITY:	42% RH
		TIME:	9:15 AM

Description:	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.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none">• 120VAC / 60 Hz.

Peak Power Spectral Density Limits	
Frequency (MHz)	Limit (dBm)
5150-5350	13



Peak Excursion (Continued)

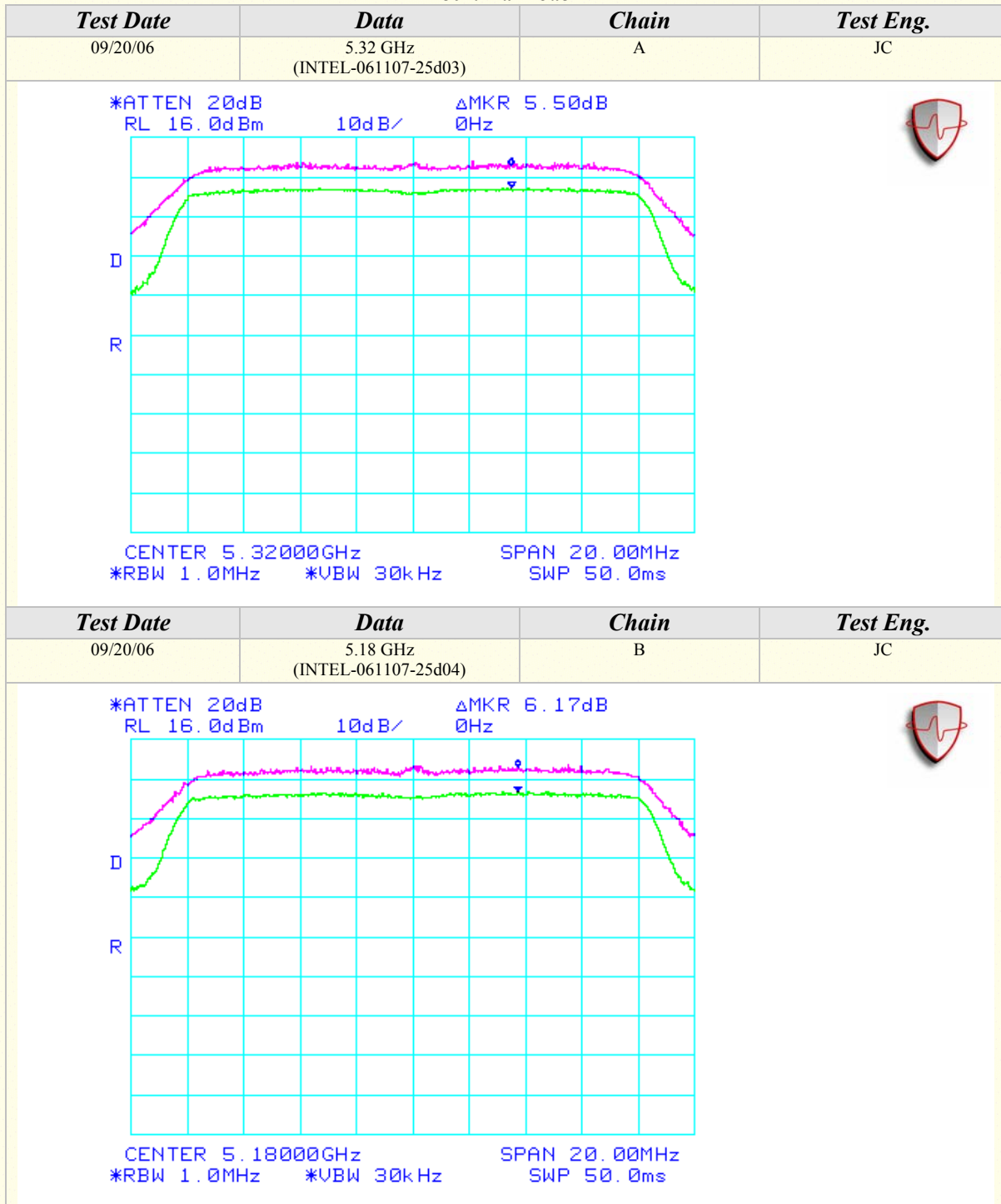
802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25d01)	A	JC
<div><div><div><div>*ATTEN 20dB RL 16.0dBm</div><div>10dB/</div><div>ΔMKR 5.83dB 0Hz</div></div><div></div><div>CENTER 5.18000GHz SPAN 20.00MHz *RBW 1.0MHz *VBW 30kHz SWP 50.0ms</div></div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25d02)	A	JC
<div><div><div><div>*ATTEN 20dB RL 16.0dBm</div><div>10dB/</div><div>ΔMKR 5.67dB 0Hz</div></div><div></div><div>CENTER 5.26000GHz SPAN 20.00MHz *RBW 1.0MHz *VBW 30kHz SWP 50.0ms</div></div></div>			



Peak Excursion (Continued)

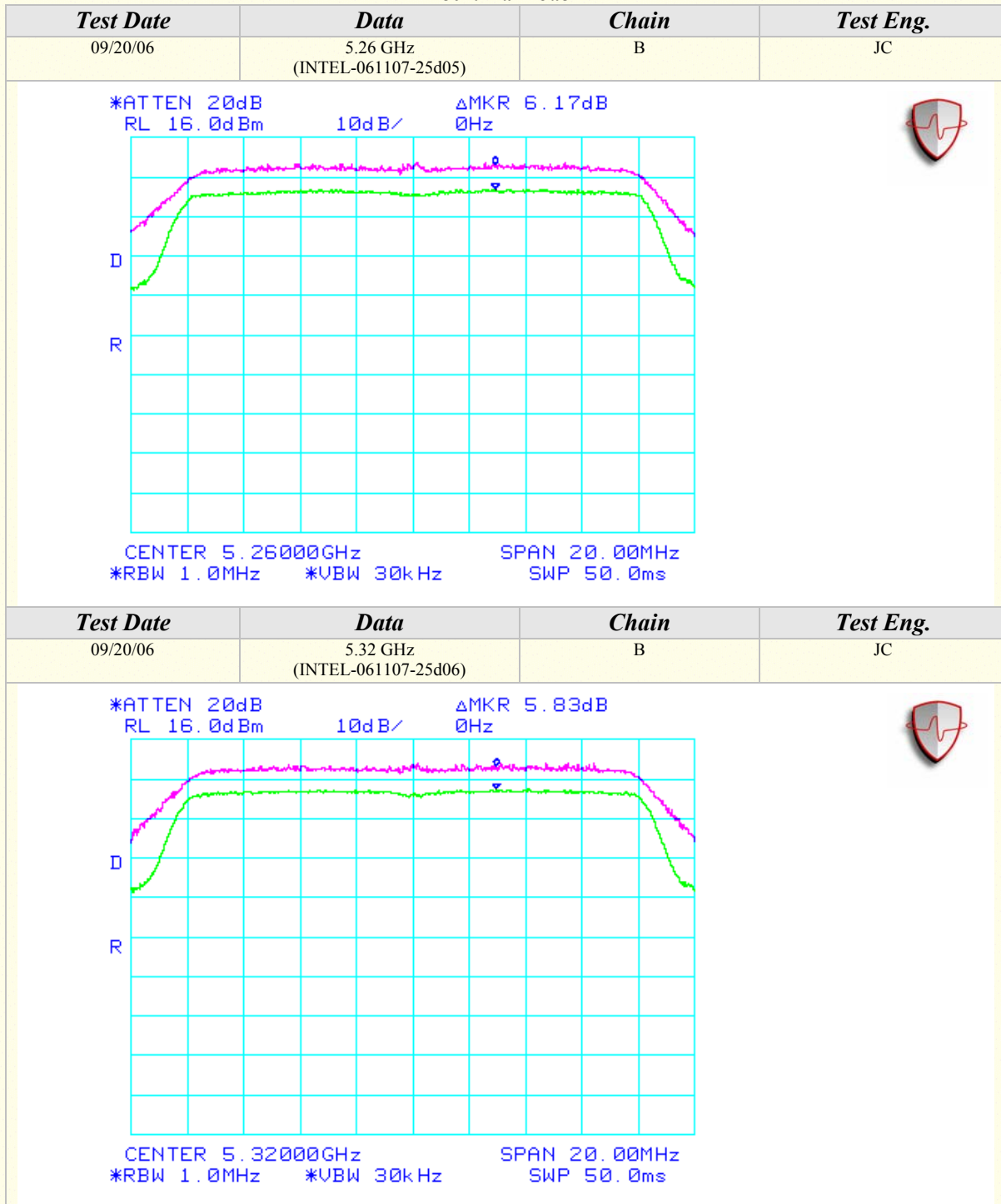
802.11a Mode





Peak Excursion (Continued)

802.11a Mode





CONDUCTED OUT OF BAND EMISSIONS

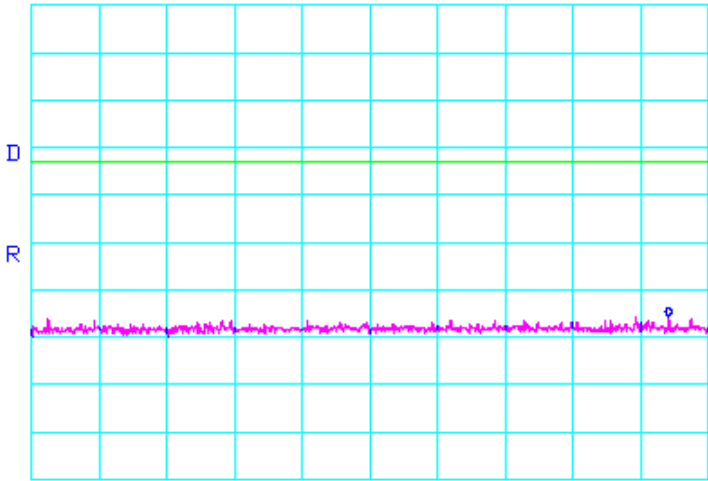
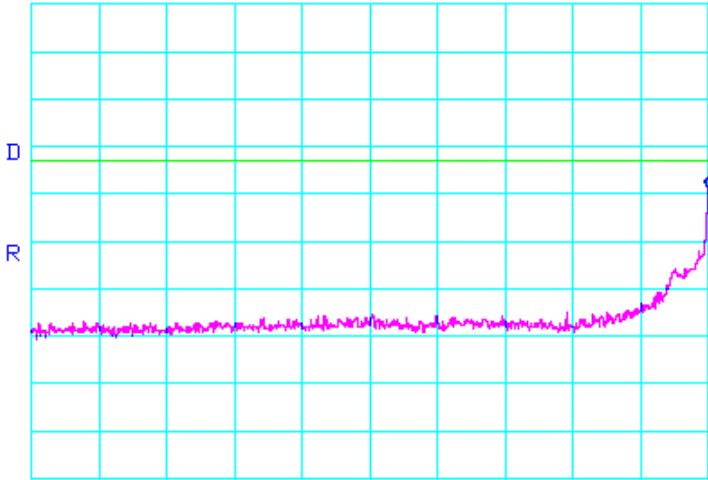
CLIENT:	Intel Corporation	DATE:	09/20/06
EUT:	Intel PRO/Wireless 4965AG_ Network Connection	PROJECT NUMBER:	INTEL-061107
MODEL NUMBER:	4965AG_	TEST ENGINEER:	JC
SERIAL NUMBER:	0013E804612B	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	TEMPERATURE:	21 deg. C
		HUMIDITY:	42% RH
		TIME:	9:15 AM

Description:	<p>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.</p> <p>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.</p>
Results:	See Data Sheet
Note:	<p>Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency.</p> <ul style="list-style-type: none">• 120VAC / 60 Hz.



Conducted Out Of Band Emissions (Continued)

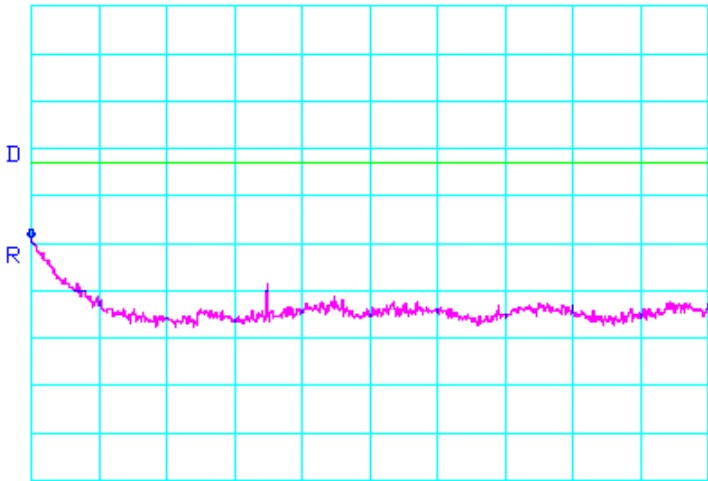
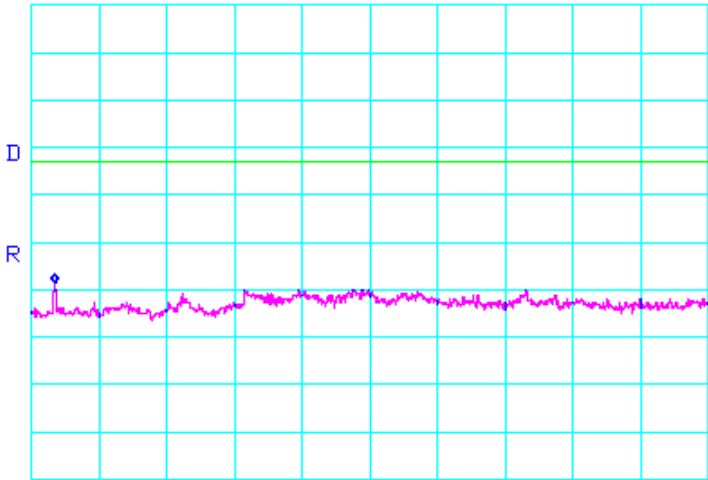
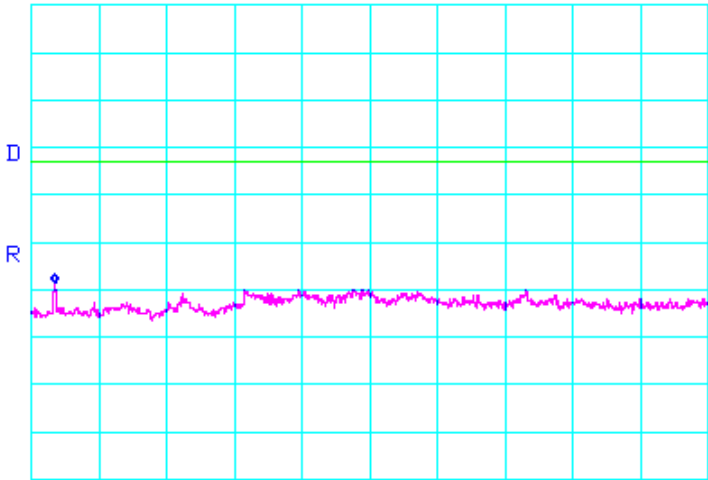
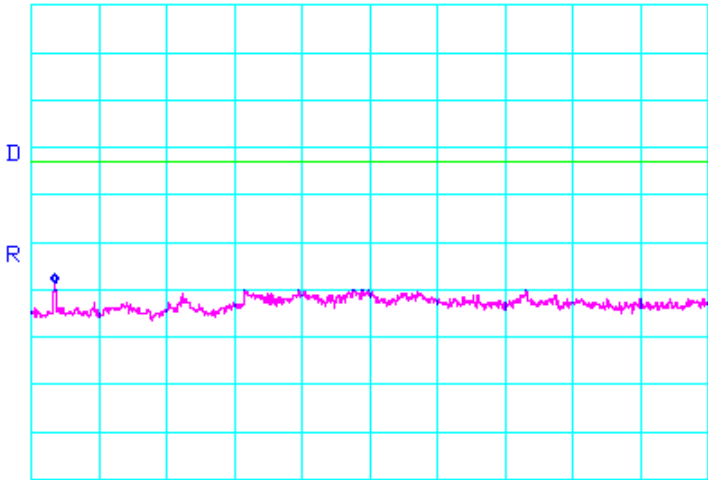
802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25e01)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -59.67dBm 943.4MHz</div></div><div></div><div>START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25e02)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -32.50dBm 5.150GHz</div></div><div></div><div>START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms</div></div>			



Conducted Out Of Band Emissions (Continued)

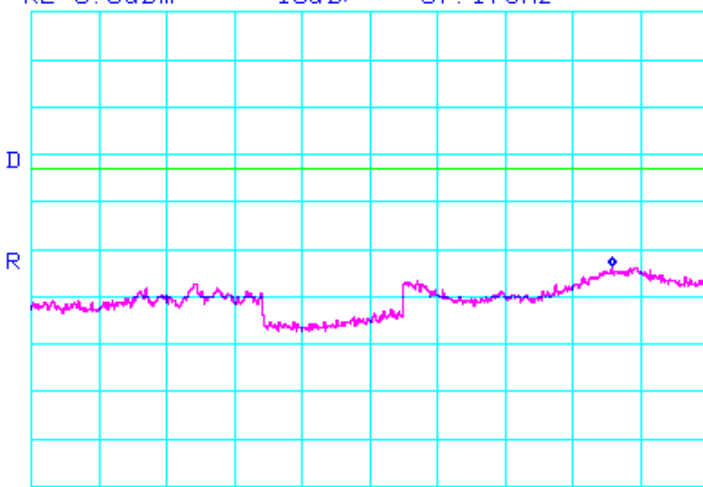
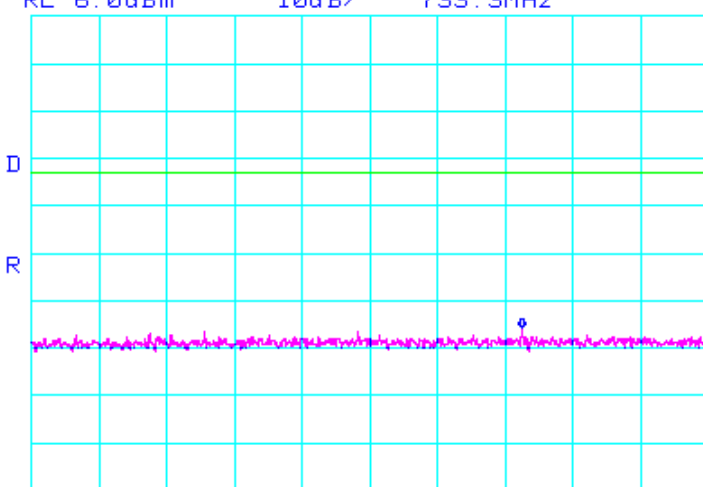
802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25e03)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -43.00dBm 5.250GHz</div></div><div></div><div>START 5.250GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 95.0ms</div></div> <div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -52.67dBm 10.35GHz</div></div><div></div><div>START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms</div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25e04)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -52.67dBm 10.35GHz</div></div><div></div><div>START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms</div></div> <div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -52.67dBm 10.35GHz</div></div><div></div><div>START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms</div></div>			



Conducted Out Of Band Emissions (Continued)

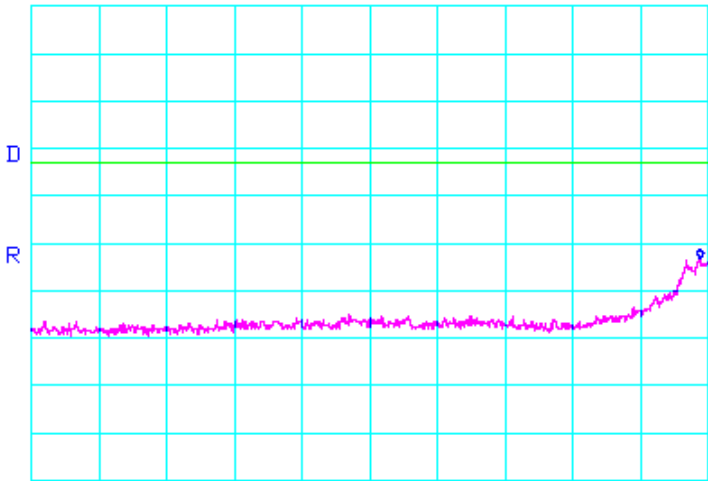
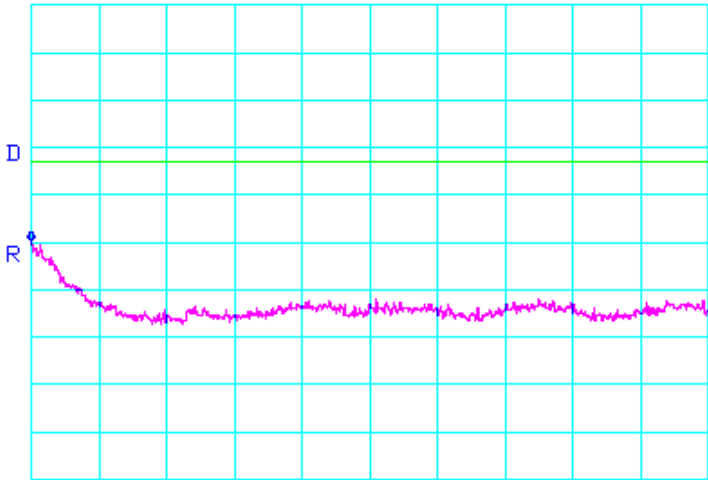
802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25e05)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -47.67dBm 37.17GHz</div></div><div>START 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 400ms</div></div> <div>STOP 40.00GHz</div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25e06)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -59.83dBm 733.3MHz</div></div><div>START 30.0MHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</div></div> <div>STOP 1.0000GHz</div>			



Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25e07)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -47.17dBm 5.102GHz</div></div><div></div><div>START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms</div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25e08)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -43.83dBm 5.350GHz</div></div><div></div><div>START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms</div></div>			



Conducted Out Of Band Emissions (Continued)

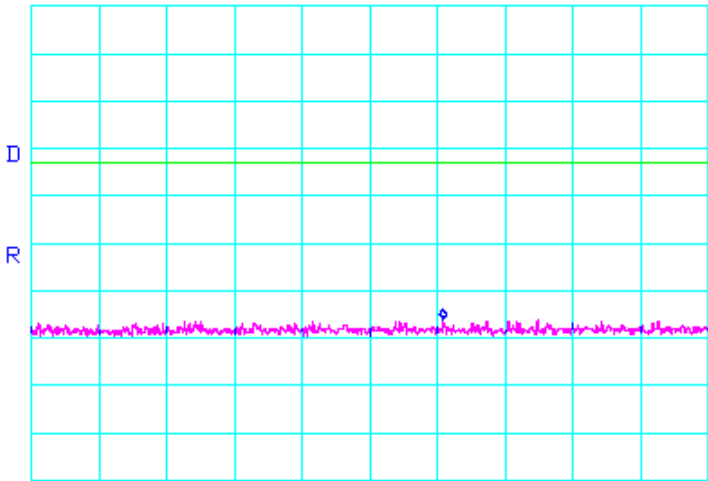
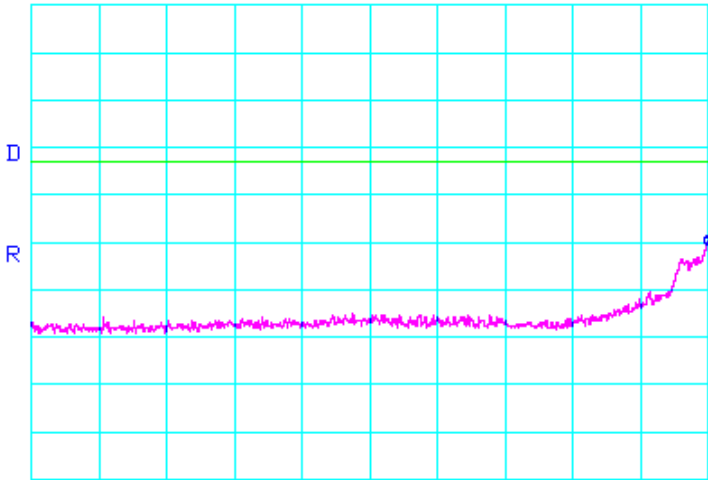
802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25e09)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -47.17dBm 10.50GHz</div></div><div></div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25e10)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -47.00dBm 37.70GHz</div></div><div></div></div>			



Conducted Out Of Band Emissions (Continued)

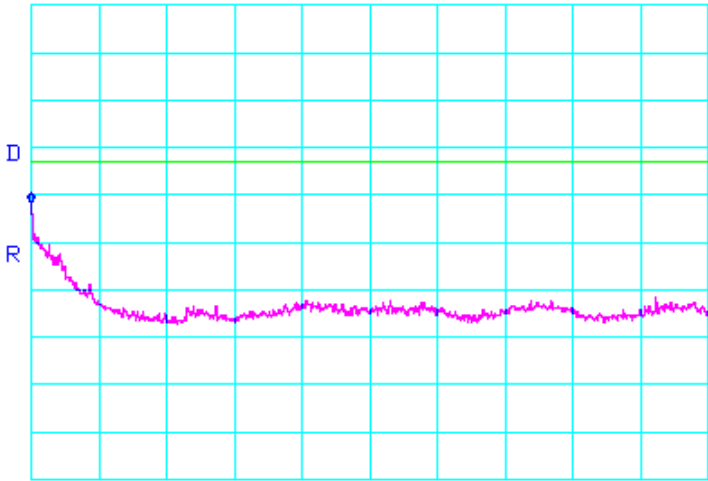

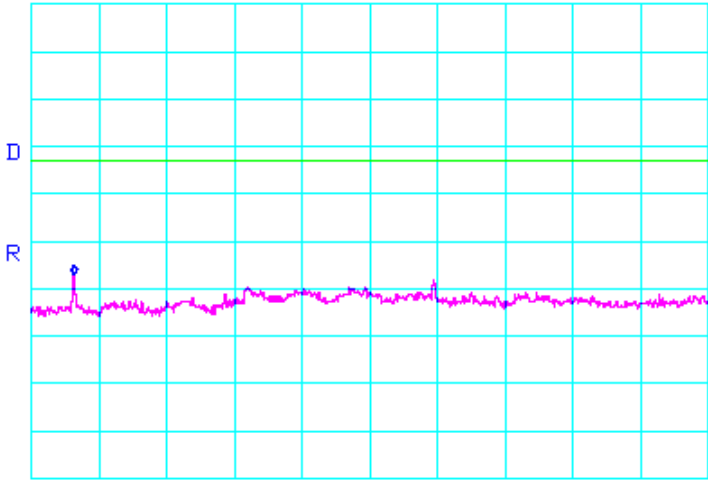

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25e11)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/ 620.1MHz</div><div>MKR -60.00dBm</div></div><div></div><div>START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25e12)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/ 5.243GHz</div><div>MKR -44.50dBm</div></div><div></div><div>START 1.000GHz STOP 5.250GHz *RBW 1.0MHz *VBW 1.0MHz SWP 85.0ms</div></div>			



Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25e13)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/ MKR -35.50dBm 5.350GHz</div><div></div><div>START 5.350GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms</div></div><div></div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25e14)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/ MKR -51.00dBm 10.63GHz</div><div></div><div>START 10.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms</div></div><div></div></div>			



Conducted Out Of Band Emissions (Continued)

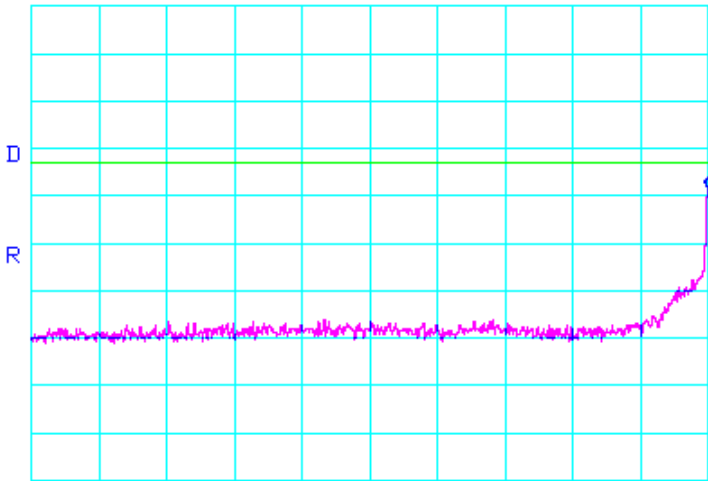
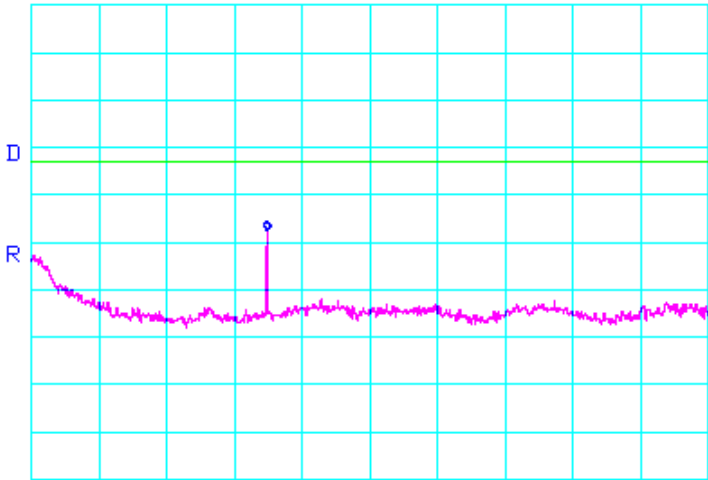
802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25e15)	A	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -47.50dBm 37.50GHz</div></div><div></div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25e16)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -60.33dBm 914.3MHz</div></div><div></div></div>			



Conducted Out Of Band Emissions (Continued)

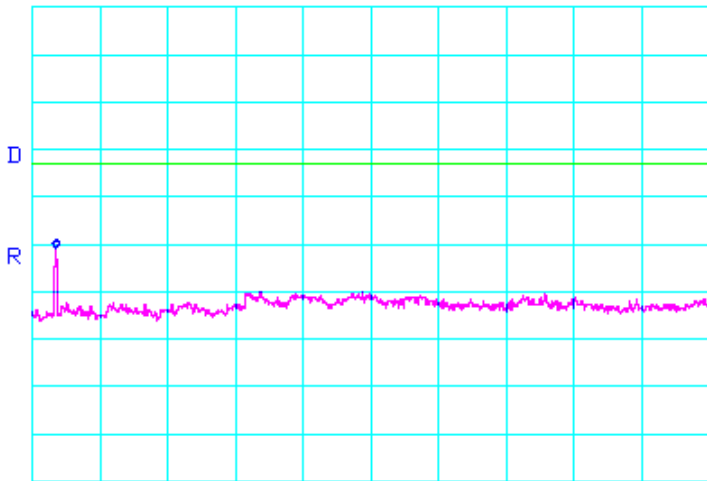

802.11a Mode

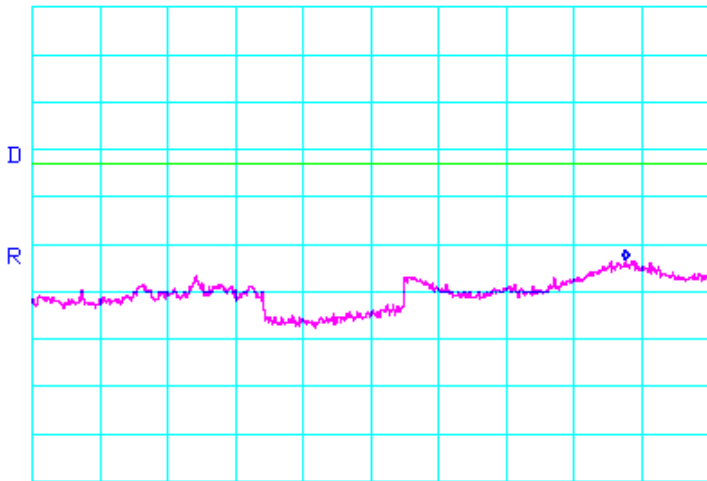

Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25e17)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>5.150GHz</div><div>MRK -32.17dBm</div></div><div></div><div>START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms</div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25e18)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>6.905GHz</div><div>MRK -41.50dBm</div></div><div></div><div>START 5.250GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 95.0ms</div></div>			



Conducted Out Of Band Emissions (Continued)

802.11a Mode

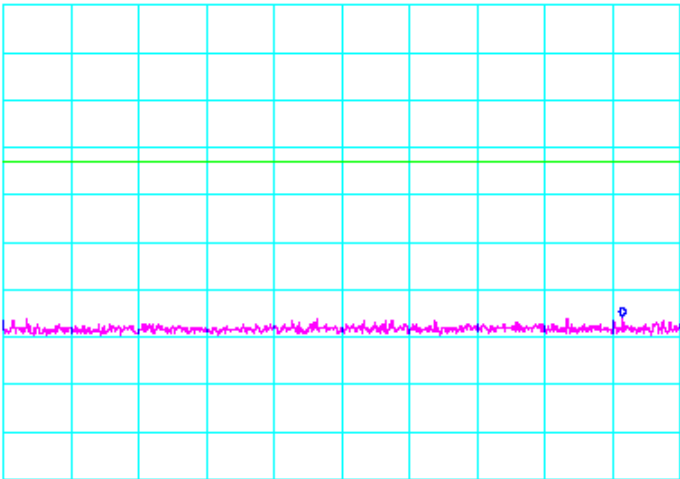
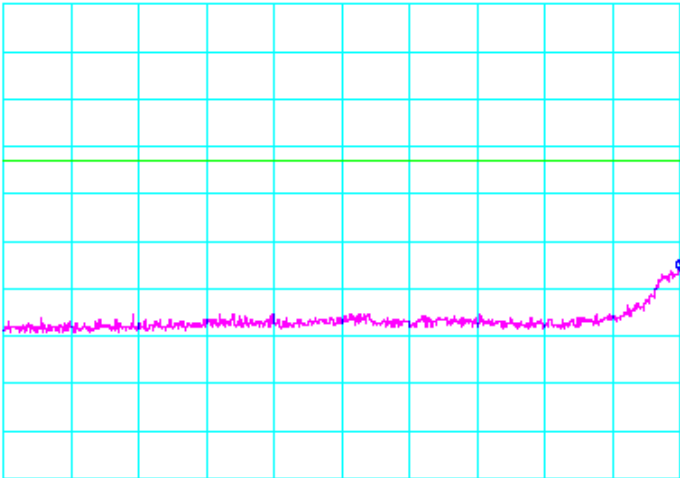
Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25e19)	B	JC
<div><div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/ MKR -44.83dBm 10.35GHz</div><div>START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms</div></div><div></div></div></div>			

Test Date	Data	Chain	Test Eng.
09/20/06	5.18 GHz (INTEL-061107-25e20)	B	JC
<div><div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/ MKR -47.33dBm 37.53GHz</div><div>START 20.00GHz STOP 40.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 400ms</div></div><div></div></div></div>			



Conducted Out Of Band Emissions (Continued)

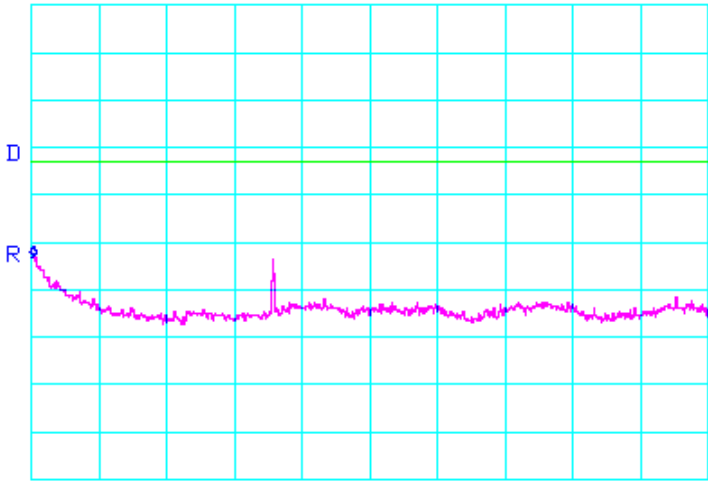
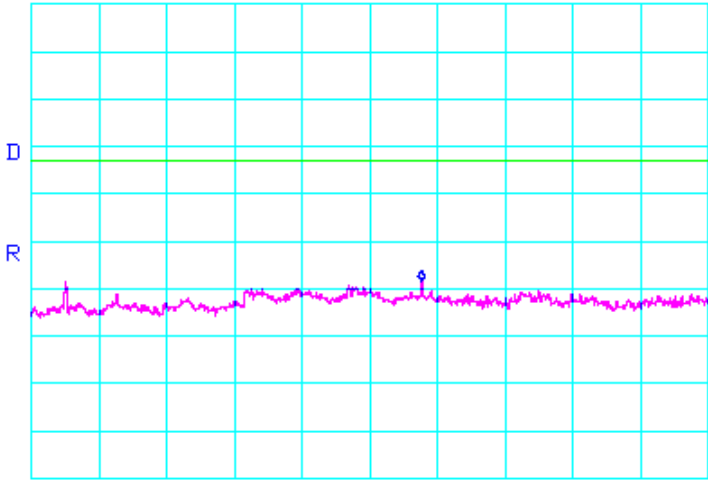
802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25e21)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -59.67dBm 917.6MHz</div></div><div></div><div>START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25e22)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -50.00dBm 5.143GHz</div></div><div></div><div>START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms</div></div>			



Conducted Out Of Band Emissions (Continued)

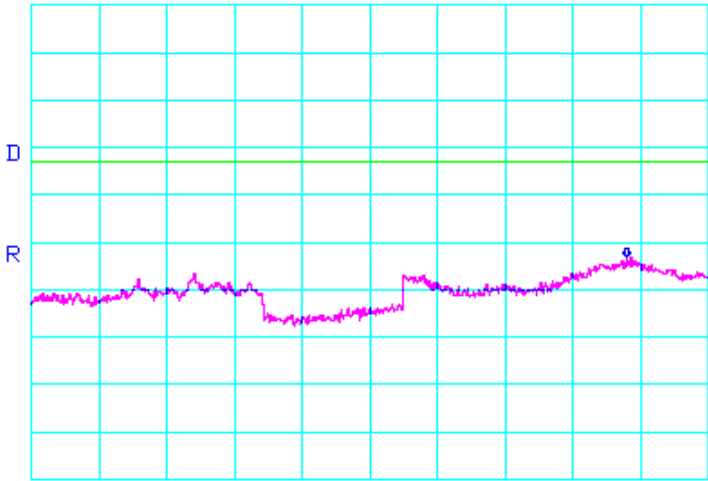
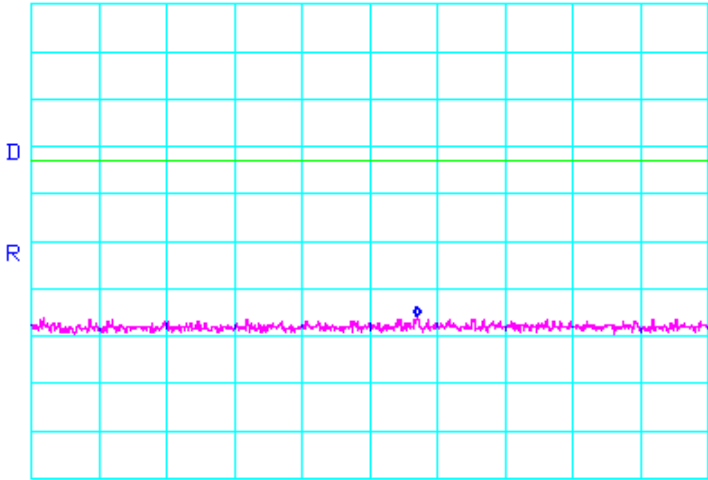
802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25e23)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -47.00dBm 5.366GHz</div></div><div>START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms</div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25e24)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -52.33dBm 15.77GHz</div></div><div>START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms</div></div>			



Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.26 GHz (INTEL-061107-25e25)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -47.17dBm 37.60GHz</div></div><div>START 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 400ms</div></div> <div>STOP 40.00GHz</div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25e26)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm 10dB/</div><div>MKR -59.83dBm 582.9MHz</div></div><div>START 30.0MHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</div></div> <div>STOP 1.0000GHz</div>			



Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25e27)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -47.00dBm 5.250GHz</div></div><div></div><div>START 1.000GHz STOP 5.250GHz *RBW 1.0MHz *VBW 1.0MHz SWP 85.0ms</div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25e28)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -36.83dBm 5.350GHz</div></div><div></div><div>START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms</div></div>			



Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25e29)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -51.17dBm 10.63GHz</div></div><div></div></div>			
Test Date	Data	Chain	Test Eng.
09/20/06	5.32 GHz (INTEL-061107-25e30)	B	JC
<div><div><div>*ATTEN 10dB RL 6.0dBm</div><div>10dB/</div><div>MKR -47.50dBm 37.73GHz</div></div><div></div></div>			



APPENDIX B

MODIFICATIONS AND RECOMMENDATIONS

1.0	NONE