Modular Approval
Test Report
And Application for Grant of Equipment Authorization

TEST REPORT PERTAINING TO:

Equipment Under Test	Model Number(s)
Intel® Centrino® Ultimate-N 6200	622ANHMW

CONFIGURATION
IEEE 802.11a / 802.11b / 802.11g / 802.11n with a set of Shanghai Universe Communication Electron Co.,Ltd. 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

ACCREDITED

Certificate Number: 1111.01

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	REPORT BODY	APPENDICES		TOTAL PAGES
		A	***B***	
PAGES	22	321	1	344

TABLE OF CONTENTS

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 = 25.58 MHz 5.20 GHz = 28.50 MHz 5.24 GHz = 23.50 MHz
15.407(a)(1)	Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.18 GHz = 16.64dBm (46.17mW) 5.20 GHz = 16.84dBm (48.35mW) 5.24 GHz = 16.44dBm (44.09mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 1.240dBm 5.20 GHz = 1.851dBm 5.24 GHz = 2.120dBm
15.407(a)(1)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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 = 27.08 MHz 5.28 GHz = 25.58 MHz 5.32 GHz = 23.33 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.26 GHz = 16.64dBm (46.17mW) 5.28 GHz = 16.64dBm (46.17mW) 5.32 GHz = 16.74dBm (47.25mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 1.900dBm 5.28 GHz = 2.188dBm 5.32 GHz = 2.376dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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 = 5.50 dB 5.20 GHz = 5.33 dB 5.24 GHz = 6.00 dB 5.26 GHz = 5.84 dB 5.28 GHz = 5.50 dB 5.32 GHz = 5.67 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

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 = 25.33 MHz 5.20 GHz = 30.08 MHz 5.24 GHz = 32.17 MHz
15.407(a)(1)	Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.18 GHz = 16.64dBm (46.17mW) 5.20 GHz = 16.74dBm (47.25mW) 5.24 GHz = 16.84dBm (48.35mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 1.786dBm 5.20 GHz = 1.965dBm 5.24 GHz = 1.975dBm
15.407(a)(1)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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 = 33.17 MHz 5.28 GHz = 32.58 MHz 5.32 GHz = 31.75 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.26 GHz = 16.64dBm (46.17mW) 5.28 GHz = 16.54dBm (45.12mW) 5.32 GHz = 16.54dBm (45.12mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 2.165dBm 5.28 GHz = 2.105dBm 5.32 GHz = 1.870dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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 = 5.16 dB 5.20 GHz = 6.00 dB 5.24 GHz = 5.33 dB 5.26 GHz = 6.34 dB 5.28 GHz = 5.50 dB 5.32 GHz = 6.33 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

2.0 Summary Of Test Results (Continued)

802.11n Mode 20MHz Wide (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 = 27.25 MHz 5.20 GHz = 30.08 MHz 5.24 GHz = 29.00 MHz
15.407(a)(1)	Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.18 GHz = 16.74dBm (47.25mW) 5.20 GHz = 16.74dBm (47.25mW) 5.24 GHz = 16.84dBm (48.35mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 2.101dBm 5.20 GHz = 1.396dBm 5.24 GHz = 1.188dBm
15.407(a)(1)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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 = 27.83 MHz 5.28 GHz = 27.58 MHz 5.32 GHz = 28.50 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.26 GHz = 16.84dBm (48.35mW) 5.28 GHz = 16.54dBm (45.12mW) 5.32 GHz = 16.64dBm (46.17mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 1.475dBm 5.28 GHz = 1.447dBm 5.32 GHz = 1.788dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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 = 5.50 dB 5.20 GHz = 5.34 dB 5.24 GHz = 5.50 dB 5.26 GHz = 5.50 dB 5.28 GHz = 6.16 dB 5.32 GHz = 5.34 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

2.0 Summary Of Test Results (Continued)

802.11n Mode 20MHz Wide (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 = 29.58 MHz 5.20 GHz = 28.00 MHz 5.24 GHz = 26.83 MHz
15.407(a)(1)	Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.18 GHz = 16.64dBm (46.17mW) 5.20 GHz = 16.54dBm (45.12mW) 5.24 GHz = 16.84dBm (48.35mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 2.522dBm 5.20 GHz = 1.702dBm 5.24 GHz = 1.928dBm
15.407(a)(1)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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 = 28.33 MHz 5.28 GHz = 29.58 MHz 5.32 GHz = 30.42 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.26 GHz = 16.54dBm (45.12mW) 5.28 GHz = 16.84dBm (48.35mW) 5.32 GHz = 16.84dBm (48.35mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 1.335dBm 5.28 GHz = 2.038dBm 5.32 GHz = 1.957dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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 = 6.00 dB 5.20 GHz = 5.34 dB 5.24 GHz = 6.33 dB 5.26 GHz = 5.34 dB 5.28 GHz = 5.50 dB 5.32 GHz = 5.66 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

2.0 Summary Of Test Results (Continued)

802.11n Mode 40MHz Wide (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	5.19 GHz = 41.00 MHz 5.23 GHz = 43.00 MHz
15.407(a)(1)	Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.19 GHz = 16.89dBm (48.84mW) 5.23 GHz = 16.69dBm (46.64mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.19 GHz = -1.037dBm 5.23 GHz = -1.325dBm
15.407(a)(1)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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	5.27 GHz = 41.00 MHz 5.31 GHz = 40.33 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.27 GHz = 16.69dBm (46.64mW) 5.31 GHz = 16.79dBm (47.73mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.27 GHz = -1.207dBm 5.31 GHz = -1.032dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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	5.19 GHz = 5.66 dB 5.23 GHz = 5.17 dB 5.27 GHz = 5.33 dB 5.31 GHz = 5.67 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

2.0 Summary Of Test Results (Continued)

802.11n Mode 40MHz Wide (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	5.19 GHz = 37.50 MHz 5.23 GHz = 38.42 MHz
15.407(a)(1)	Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.19 GHz = 16.79dBm (47.73mW) 5.23 GHz = 16.89dBm (48.84mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.19 GHz = -2.065dBm 5.23 GHz = -2.320dBm
15.407(a)(1)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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	5.27 GHz = 38.50 MHz 5.31 GHz = 39.58 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.27 GHz = 16.89dBm (48.84mW) 5.31 GHz = 16.89dBm (48.84mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.27 GHz = -1.322dBm 5.31 GHz = -1.276dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
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	5.19 GHz = 5.33 dB 5.23 GHz = 5.50 dB 5.27 GHz = 5.67 dB 5.31 GHz = 5.50 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

2.0 Summary Of Test Results (Continued)

802.11a Mode (5470-5725 MHz) Chain A

EMISSIONS STANDARD			
FCC Part 15 Section	**Description**	**Results**	**Comments**
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.50 GHz = 25.33 MHz 5.60 GHz = 29.75 MHz 5.70 GHz = 27.42 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.50 GHz = 16.54dBm (45.12mW) 5.60 GHz = 16.84dBm (48.35mW) 5.70 GHz = 16.64dBm (46.17mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.50 GHz = 2.223dBm 5.60 GHz = 2.170dBm 5.70 GHz = 2.045dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
15.407(b)(3)	For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.	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	5.50 GHz = 5.83 dB 5.60 GHz = 5.50 dB 5.70 GHz = 5.33 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

2.0 Summary Of Test Results (Continued)

802.11a Mode (5470-5725 MHz) Chain B

EMISSIONS STANDARD			
FCC Part 15 Section	**Description**	**Results**	**Comments**
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.50 GHz = 33.50 MHz 5.60 GHz = 34.00 MHz 5.70 GHz = 34.42 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.50 GHz = 16.74dBm (47.25mW) 5.60 GHz = 16.74dBm (47.25mW) 5.70 GHz = 16.84dBm (48.35mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.50 GHz = 2.331dBm 5.60 GHz = 2.676dBm 5.70 GHz = 2.234dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
15.407(b)(3)	For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.	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	5.50 GHz = 5.50 dB 5.60 GHz = 5.16 dB 5.70 GHz = 5.33 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

2.0 Summary Of Test Results (Continued)

802.11n Mode 20MHz Wide (5470-5725 MHz) Chain A

EMISSIONS STANDARD			
FCC Part 15 Section	**Description**	**Results**	**Comments**
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.50 GHz = 29.92 MHz 5.60 GHz = 27.08 MHz 5.70 GHz = 29.08 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.50 GHz = 16.84dBm (48.35mW) 5.60 GHz = 16.54dBm (45.12mW) 5.70 GHz = 16.74dBm (47.25mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.50 GHz = 2.159dBm 5.60 GHz = 1.085dBm 5.70 GHz = 1.149dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
15.407(b)(3)	For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.	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	5.50 GHz = 6.00 dB 5.60 GHz = 5.66 dB 5.70 GHz = 5.17 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

2.0 Summary Of Test Results (Continued)

802.11n Mode 20MHz Wide (5470-5725 MHz) Chain B

EMISSIONS STANDARD			
FCC Part 15 Section	**Description**	**Results**	**Comments**
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.50 GHz = 32.08 MHz 5.60 GHz = 36.42 MHz 5.70 GHz = 35.42 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.50 GHz = 16.94dBm (49.47mW) 5.60 GHz = 16.74dBm (47.25mW) 5.70 GHz = 16.74dBm (47.25mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.50 GHz = 2.201dBm 5.60 GHz = 1.827dBm 5.70 GHz = 2.001dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
15.407(b)(3)	For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.	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	5.50 GHz = 5.50 dB 5.60 GHz = 5.83 dB 5.70 GHz = 5.50 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

2.0 Summary Of Test Results (Continued)

802.11n Mode 40MHz Wide (5470-5725 MHz) Chain A

EMISSIONS STANDARD			
FCC Part 15 Section	**Description**	**Results**	**Comments**
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.51 GHz = 44.75 MHz 5.59 GHz = 42.83 MHz 5.67 GHz = 44.50 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.51 GHz = 16.79dBm (47.73mW) 5.59 GHz = 16.69dBm (46.64mW) 5.67 GHz = 16.59dBm (45.58mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.51 GHz = -0.729dBm 5.59 GHz = -1.329dBm 5.67 GHz = -1.175dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
15.407(b)(3)	For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.	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	5.51 GHz = 5.67 dB 5.59 GHz = 5.83 dB 5.67 GHz = 5.50 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

2.0 Summary Of Test Results (Continued)

802.11n Mode 40MHz Wide (5470-5725 MHz) Chain B

EMISSIONS STANDARD			
FCC Part 15 Section	**Description**	**Results**	**Comments**
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.51 GHz = 42.83 MHz 5.59 GHz = 43.42 MHz 5.67 GHz = 43.50 MHz
15.407(a)(2)	Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.51 GHz = 16.89dBm (48.84mW) 5.59 GHz = 16.59dBm (45.58mW) 5.67 GHz = 16.69dBm (46.64mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.51 GHz = -1.457dBm 5.59 GHz = -0.866dBm 5.67 GHz = -1.191dBm
15.407(a)(2)	Maximum Conducted Output 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 FCC 15.247 report (INTEL-090601F)
15.407(b)(3)	For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.	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	5.51 GHz = 5.67 dB 5.59 GHz = 5.50 dB 5.67 GHz = 5.83 dB
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations
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 FCC 15.247 report (INTEL-090601F)

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

Report Completed By:

Johnny Candelas 9/18/2009
Senior Test Engineer
Aegis Labs, Inc.

Report Approved By:

Rick Candelas 9/18/2009
Quality Assurance
Aegis Labs, Inc.

3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

DEVICE TESTED:	ITE Type: Intel® Centrino® Ultimate-N 6200 Model Number(s): 622ANHMW Serial Number: 0015005A3C7C FCC ID: E2K622ANH
DATE EUT RECEIVED:	June 18th, 2009
TEST DATE(S):	July 21st – Sept 4th, 2009
ORIGIN OF TEST SAMPLE(S):	Production
EQUIPMENT CLASS:	EUT tested as CLASS B device
RESPONSIBLE PARTY:	Intel Corporation 2111 NE 25th Avenue Hillsboro, Oregon 97124
CLIENT CONTACT:	Mr. Steve Hackett
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 10, 2010
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® Centrino® Ultimate-N 6200
Model Number:	622ANHMW
Frequency Range:	802.11a = 5.15 – 5.35 GHz & 5.47 – 5.725 802.11n = 5.15 – 5.35 GHz & 5.47 – 5.725
Enclosure:	The EUT contains its 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 Up to 450 Mbps for 802.11n mode
Antenna Type:	Shanghai Universe Communication Electron Co., Ltd Antennas: PIFA
Antenna Gain (See Note 2):	3.73dBi @ 5 GHz
Transmit Output Power:	Please see Appendix A (Data Sheets) for actual output power.
Power Supply:	3.3VDC from external source
Number of External Test Ports Exercised:	2 Antenna Ports (Chain A & B)

The Intel® Centrino® Ultimate-N 6200 is an embedded IEEE 802.11a/b/g/n wireless network adapter that operates in the 2.4 GHz and 5.0 GHz spectrum. The adapter is capable of delivering up to 450 Mbps Tx/Rx.

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 Shanghai Universe Communication Electron Co., Ltd Antennas. (Refer to the antenna information exhibits).

4.2 EUT Configuration

The EUT was tested installed in the Mini PCI-E slot of an extender board which is then connected to the host computer. The EUT was then connected to a set of antennas via its Chain A & B antenna ports. Data for a set of Shanghai Universe Communication Electron Co., Ltd Antennas can be found in Appendix A (Data Sheets)

The low, middle, and high channels were tested in 802.11a, b, g, & n modes. Also, the EUT was tested once transmitting from each chain individually (Chain A & B) and then tested with all chains transmitting simultaneously (Chain AB). The EUT was placed in continuous transmit mode by a program provided by the manufacturer *(CRTU Version 5.15.36.0)*.

4.3 List of EUT, Sub-Assemblies and Host Equipment

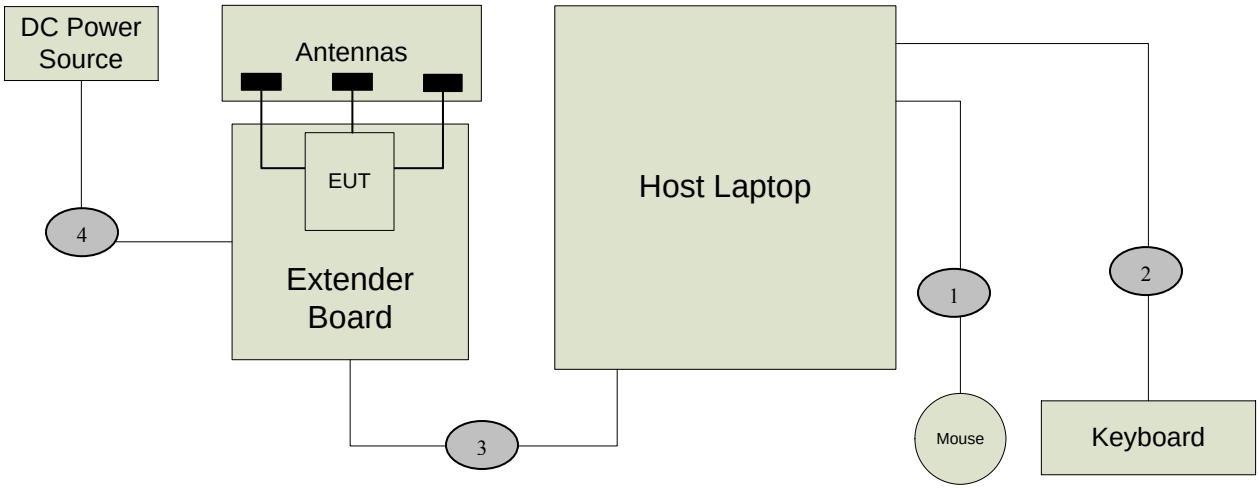
Equipment Under Test			
Manufacturer	**Equipment Name**	**Model or Part Number**	**Serial Number**
Intel Corporation	Intel® Centrino® Ultimate-N 6200	622ANHMW	0015005A3C7C

EUT Sub Assemblies			
Manufacturer	**Equipment Name**	**Model or Part Number**	**Serial Number**
Shanghai Universe Communication Electron Co.,Ltd	Chain A Antenna	SUC ANT S11	N/A
	Chain B Antenna	SUC ANT S11	N/A

HOST EQUIPMENT LIST			
Manufacturer	**Equipment Name**	**Model or Part Number**	**Serial Number**
Generic	Host Laptop	ENG001	None
Protek	DC Power Source	3006B	AC2018
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: USB Port	Keyboard: Hardwired	N/A	N/A	N/A
2	1.5m	Round, Braid & Foil Shielded	Host Computer: USB Port	Mouse: Hardwired	N/A	N/A	N/A
3	0.5m	Flat, Braid & Foil Shielded	Extender Board: Mini PCIe slot	Host Laptop: Mini PCIe slot	N/A	N/A	N/A
4	0.5m	Round Un-shielded	Extender Board: Power Input	DC Power Source: Power Output	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	07/24/10	1 Year
PSA Spectrum Analyzer	Agilent	E4440A	MY46186811	07/02/11	2 Years
Antenna – Horn	ETS	3117	00057423	12/23/09	1 Year
Preamp	Miteq	JS42-01001800-25-10P	815980	12/23/09	1 Year
30 Foot Coax	Semflex	S130SFBS10360	0619	07/26/10	1 Year
5.15-5.35 GHz Notch Filter	Microwave Circuits	N0452502	3173-01	NCR	NCR
Antenna - 18-26.5 GHz Pre-amplified Horn	Aegis Labs, Inc.	H042	SLK-35-3W	02/08/10	1 Year
Antenna - 26.5-40 GHz Pre-amplified Horn	Aegis Labs, Inc.	H028	GM1260-10	02/08/10	1 Year
EMI Receiver - RF Section	Hewlett Packard	8546A	3325A00137	04/26/10	1 Year
EMI Receiver - RF Filter Section	Hewlett Packard	85460A	3330A00138	04/26/10	1 Year
10 dB Attenuator	Pasternack	PE7014-10	N/A	09/05/09	1 Year
LISN (EUT)	Fisher Custom Communications	FCC-LISN-50-25-2	9931	06/03/10	1 Year
LISN (Access)	EMCO	3825/2	9108-1848	06/03/10	1 Year
Antenna - Biconical	EMCO	3110B	3383	06/05/10	1 Year
Antenna - Log Periodic	EMCO	3148	47943	06/12/10	1 Year
Power Meter	Anritsu	ML2487A	6K00001785	05/29/10	1 Year
Wide Bandwidth Sensor	Anritsu	MA2491A	31193	05/29/10	1 Year
12dB Attenuator	Narda	4779-12	203	06/09/10	1 Year
Temperature/Humidity Monitor	Dickson	TH550	7255185	04/13/10	1 Year

NCR – No Calibration Required.

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.

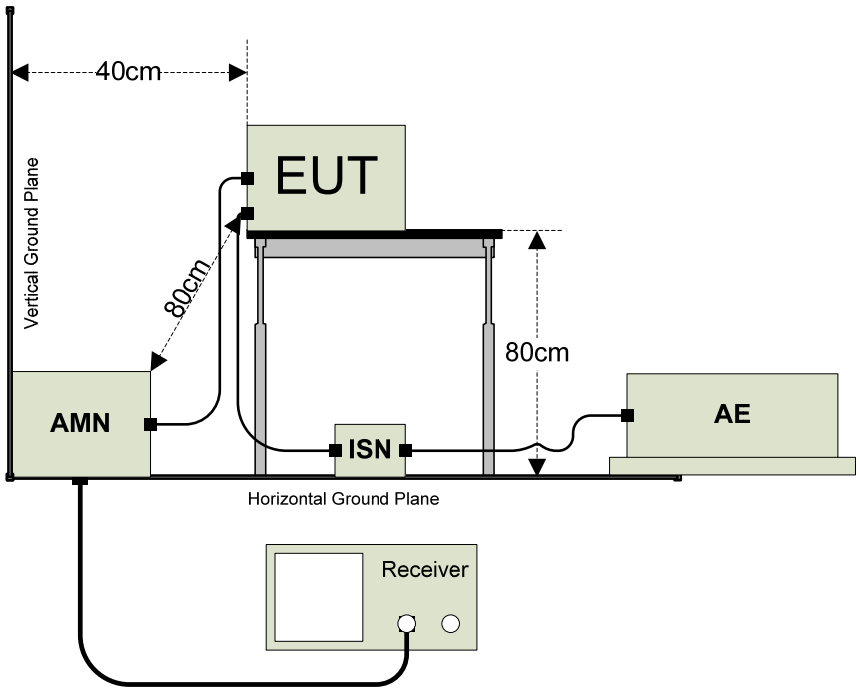
5.2 Conducted Emissions Test Setup

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.



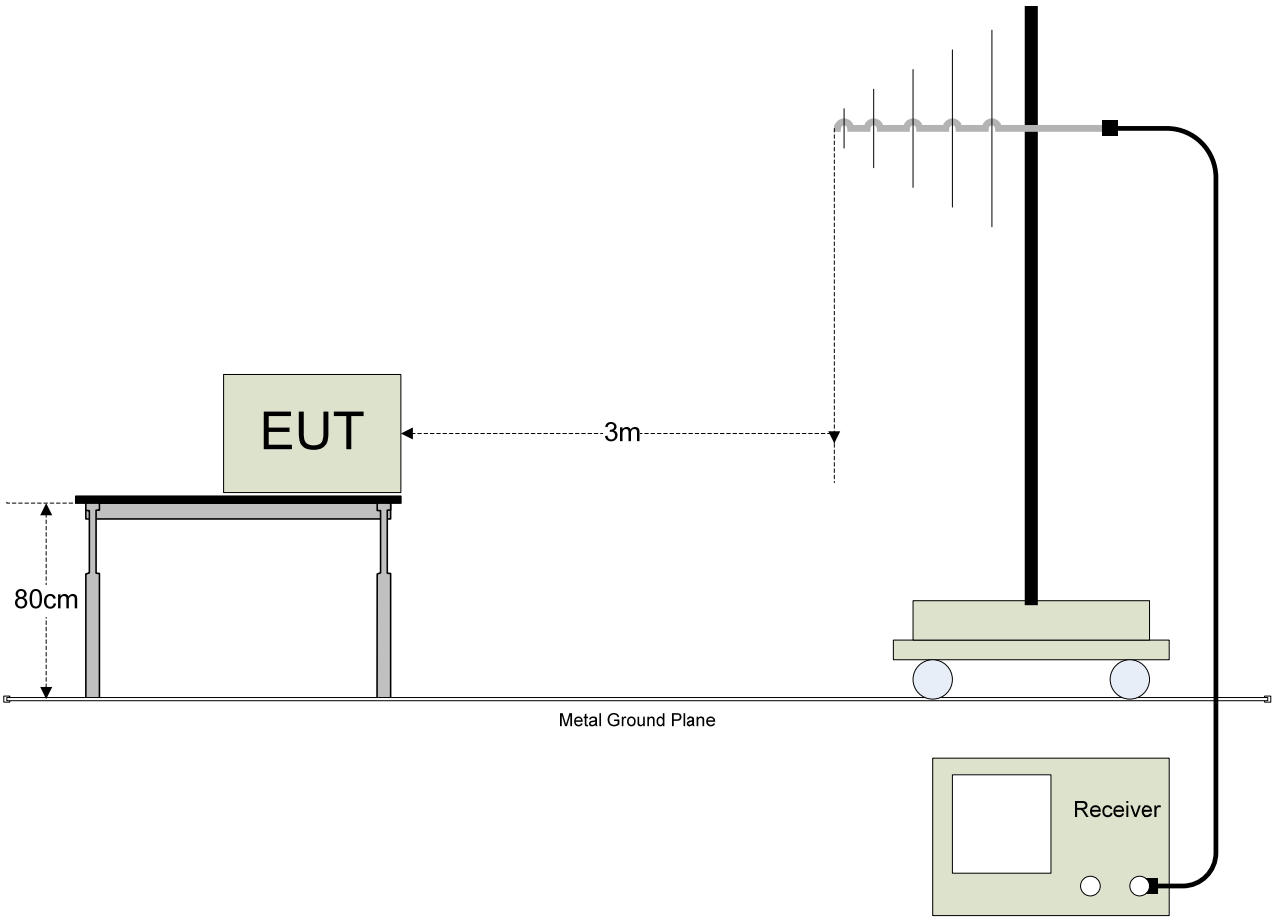
AMN = Artificial mains network
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

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

RADIATED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	**DATE:**	08/17/09
EUT:	Intel® Centrino® Ultimate-N 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A3C7C	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in **802.11a (5150-5350 MHz) mode.**	**TEMPERATURE:**	24° C
		HUMIDITY:	46% RH
		TIME:	9:30 AM

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. • 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

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:

CML = Specification Limit - F - C + D

Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11a mode (5150-5350 MHz)***
Channels 36, 40, 48, 52, 56, & 64
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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	60.43	100	45			3.77	34.28	98.48			**Ch. 36**
5180.00				53.40	A	3.77	34.28	91.45			
5200.00	62.00	100	0			3.78	34.30	100.08			**Ch. 40**
5200.00				55.14	A	3.78	34.30	93.22			
5240.00	61.11	100	45			3.80	34.34	99.25			**Ch. 48**
5240.00				54.19	A	3.80	34.34	92.33			
5260.00	59.18	100	45			3.80	34.36	97.34			**Ch. 52**
5260.00				52.60	A	3.80	34.36	90.76			
5280.00	60.08	100	180			3.81	34.38	98.27			**Ch. 56**
5280.00				53.37	A	3.81	34.38	91.56			
5320.00	61.32	100	45			3.83	34.42	99.57			**Ch. 64**
5320.00				54.51	A	3.83	34.42	92.76			

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	62.61	100	45			3.77	34.48	100.86			**Ch. 36**
5180.00				53.13	A	3.77	34.48	91.38			
5200.00	63.35	100	45			3.78	34.50	101.63			**Ch. 40**
5200.00				53.76	A	3.78	34.50	92.04			
5240.00	63.74	100	0			3.80	34.54	102.08			**Ch. 48**
5240.00				53.98	A	3.80	34.54	92.32			
5260.00	64.52	100	45			3.80	34.56	102.88			**Ch. 52**
5260.00				55.06	A	3.80	34.56	93.42			
5280.00	63.90	100	0			3.81	34.58	102.29			**Ch. 56**
5280.00				54.29	A	3.81	34.58	92.68			
5320.00	65.14	100	315			3.83	34.62	103.59			**Ch. 64**
5320.00				55.25	A	3.83	34.62	93.70			

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 **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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								55.82	74.00	-18.18	**Ch. 36**
5150.00								49.48	74.00	-24.52	
5150.00					A			40.62	54.00	-13.38	
5150.00					A			42.45	54.00	-11.55	
5350.00								50.40	74.00	-23.60	**Ch. 64**
5350.00								47.40	74.00	-26.60	
5350.00					A			39.60	54.00	-14.40	
5350.00					A			40.59	54.00	-13.41	

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								58.20	74.00	-15.80	**Ch. 36**
5150.00								51.86	74.00	-22.14	
5150.00					A			40.55	54.00	-13.45	
5150.00					A			42.38	54.00	-11.62	
5350.00								54.42	74.00	-19.58	**Ch. 64**
5350.00								51.42	74.00	-22.58	
5350.00					A			40.54	54.00	-13.46	
5350.00					A			41.53	54.00	-12.47	

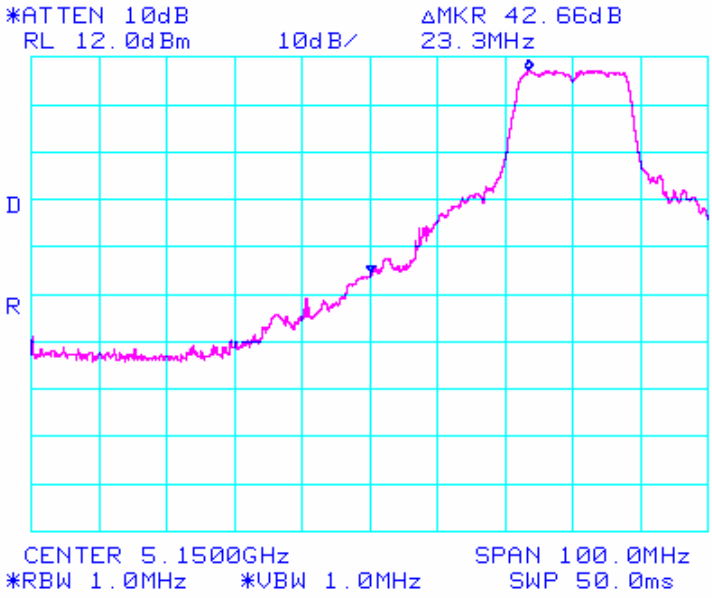
NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

BE = Fm – Δm

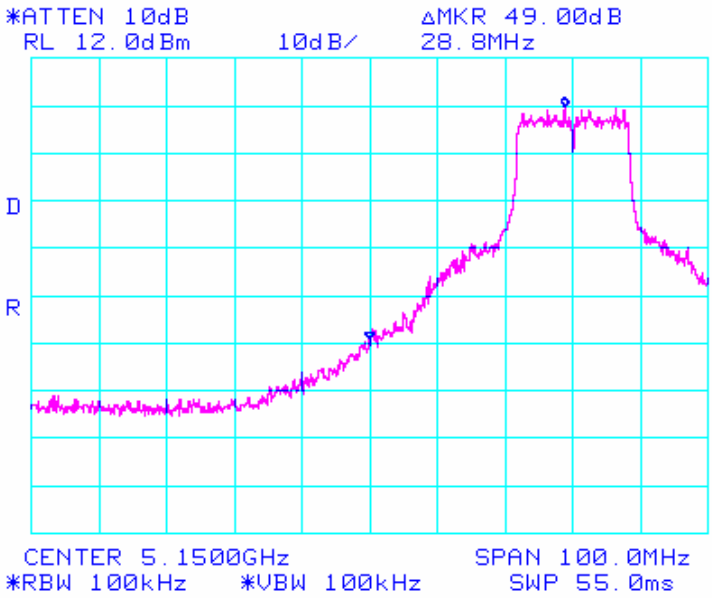
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-05a	Cond BE, Ch. 36, PK (1MHz/1MHz)	JC

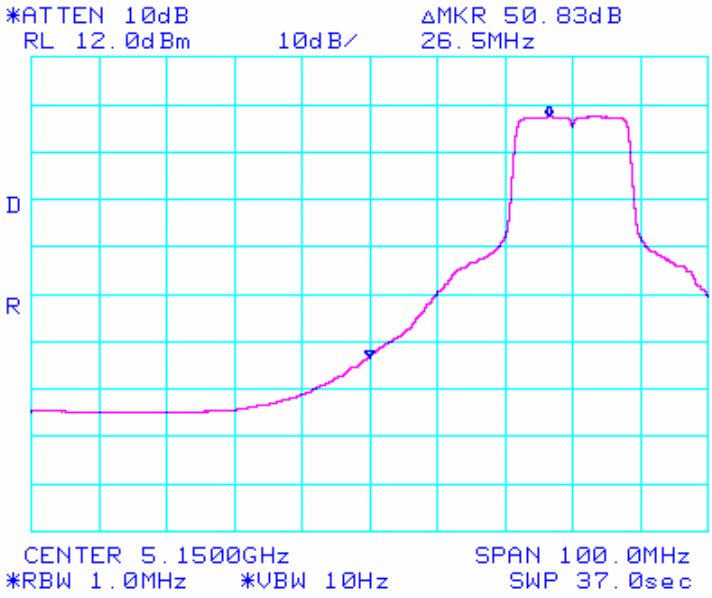


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-05b	Cond BE, Ch. 36, PK (100kHz/100kHz)	JC

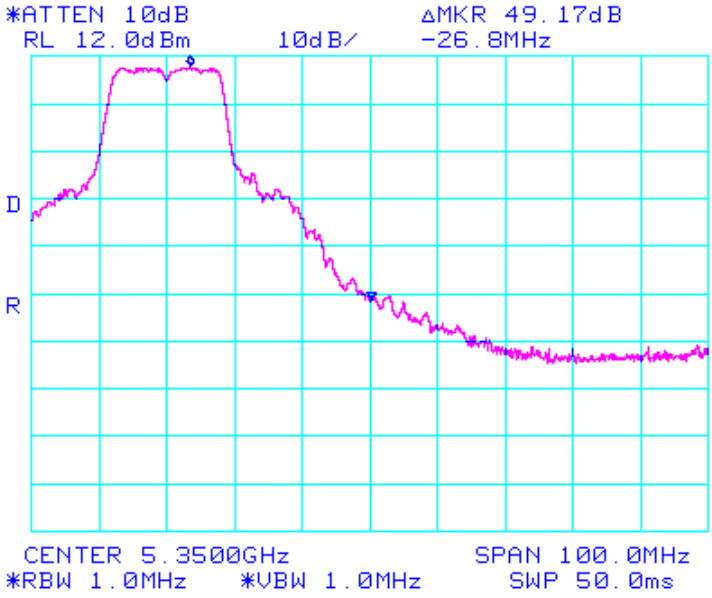


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-05c	Cond BE, Ch. 36, AV (1MHz/10Hz)	JC

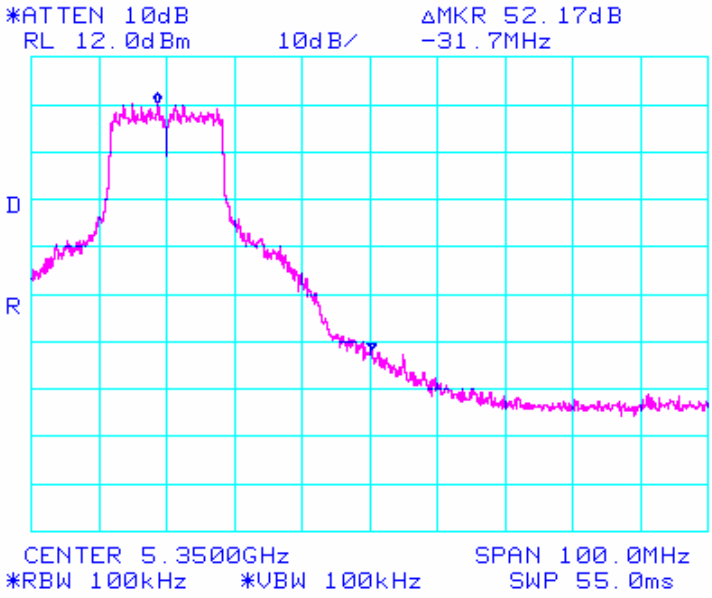


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-05d	Cond BE, Ch. 64, PK (1MHz/1MHz)	JC

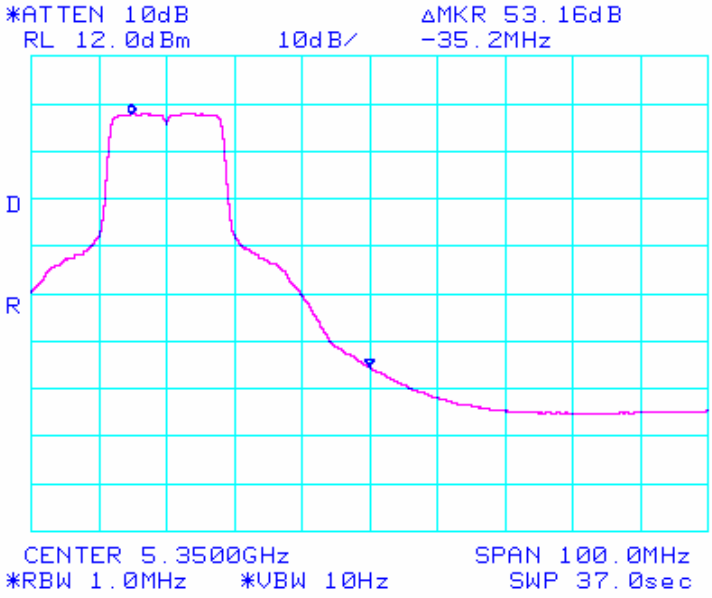


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-05e	Cond BE, Ch. 64, PK (100kHz/100kHz)	JC



Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-05f	Cond BE, Ch. 64, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11a mode (5150-5350 MHz)***
Channels 36, 40, 48, 52, 56, & 64
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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	62.67	100	315			3.77	34.28	100.72			**Ch. 36**
5180.00				53.33	A	3.77	34.28	91.38			
5200.00	63.50	100	315			3.78	34.30	101.58			**Ch. 40**
5200.00				54.00	A	3.78	34.30	92.08			
5240.00	62.33	100	0			3.80	34.34	100.47			**Ch. 48**
5240.00				53.17	A	3.80	34.34	91.31			
5260.00	63.83	100	315			3.80	34.36	101.99			**Ch. 52**
5260.00				55.50	A	3.80	34.36	93.66			
5280.00	64.33	100	315			3.81	34.38	102.52			**Ch. 56**
5280.00				55.83	A	3.81	34.38	94.02			
5320.00	63.67	100	315			3.83	34.42	101.92			**Ch. 64**
5320.00				54.50	A	3.83	34.42	92.75			

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	62.67	100	315			3.77	34.48	100.92			**Ch. 36**
5180.00				53.33	A	3.77	34.48	91.58			
5200.00	63.17	100	315			3.78	34.50	101.45			**Ch. 40**
5200.00				53.83	A	3.78	34.50	92.11			
5240.00	63.67	100	315			3.80	34.54	102.01			**Ch. 48**
5240.00				54.50	A	3.80	34.54	92.84			
5260.00	64.33	100	315			3.80	34.56	102.69			**Ch. 52**
5260.00				55.00	A	3.80	34.56	93.36			
5280.00	63.83	100	0			3.81	34.58	102.22			**Ch. 56**
5280.00				54.17	A	3.81	34.58	92.56			
5320.00	65.33	100	315			3.83	34.62	103.78			**Ch. 64**
5320.00				55.33	A	3.83	34.62	93.78			

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 **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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								56.72	74.00	-17.28	**Ch. 36**
5150.00								53.56	74.00	-20.44	
5150.00					A			42.55	54.00	-11.45	
5150.00					A			44.22	54.00	-9.78	
5350.00								54.42	74.00	-19.58	**Ch. 64**
5350.00								50.59	74.00	-23.41	
5350.00					A			40.91	54.00	-13.09	
5350.00					A			41.42	54.00	-12.58	

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								56.92	74.00	-17.08	**Ch. 36**
5150.00								53.76	74.00	-20.24	
5150.00					A			42.75	54.00	-11.25	
5150.00					A			44.42	54.00	-9.58	
5350.00								56.28	74.00	-17.72	**Ch. 64**
5350.00								52.45	74.00	-21.55	
5350.00					A			41.94	54.00	-12.06	
5350.00					A			42.45	54.00	-11.55	

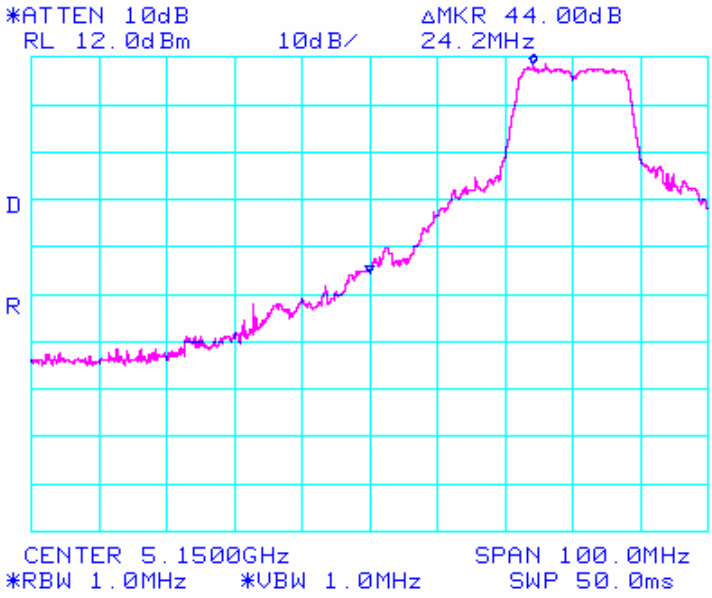
NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

BE = Fm – Δm

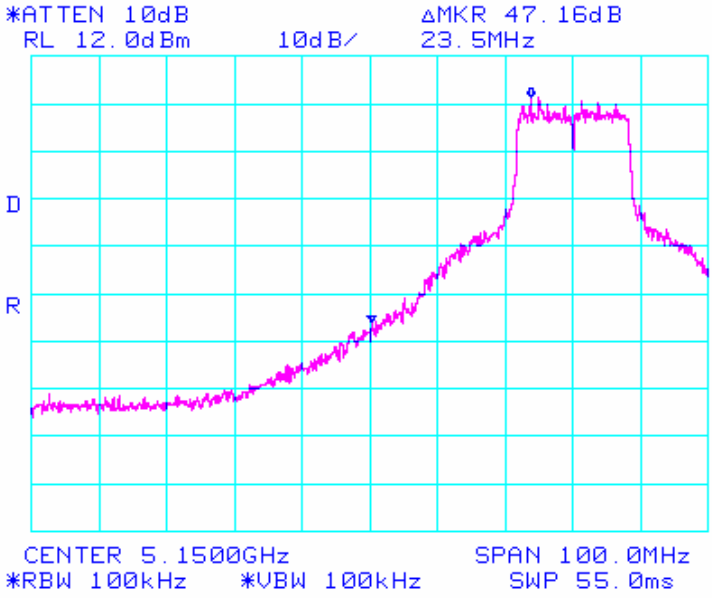
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-12a	Cond BE, Ch. 36, PK (1MHz/1MHz)	JC

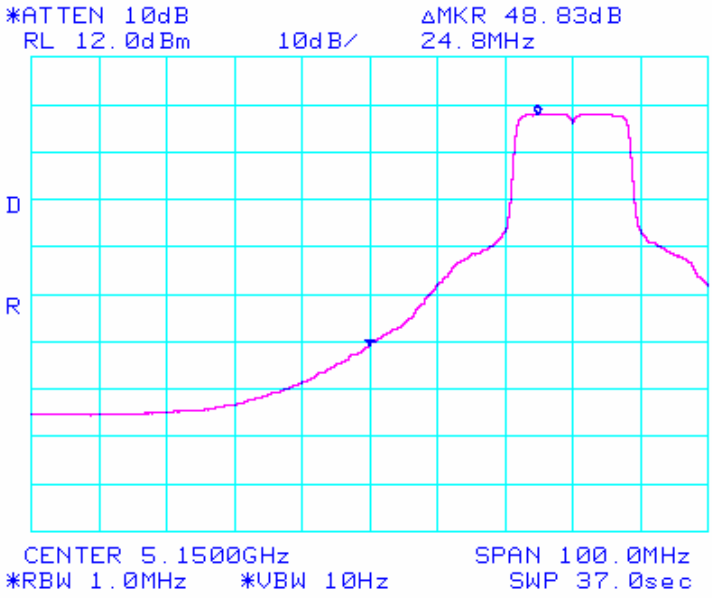


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-12b	Cond BE, Ch. 36, PK (100kHz/100kHz)	JC

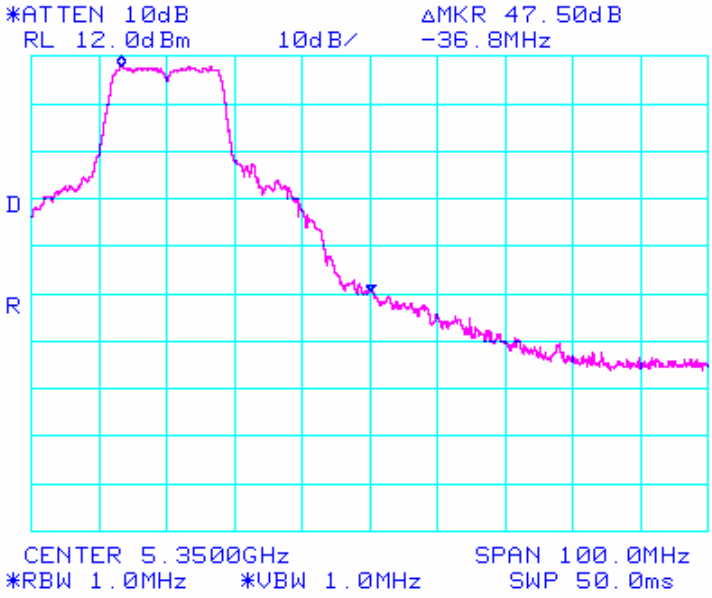


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-12c	Cond BE, Ch. 36, AV (1MHz/10Hz)	JC

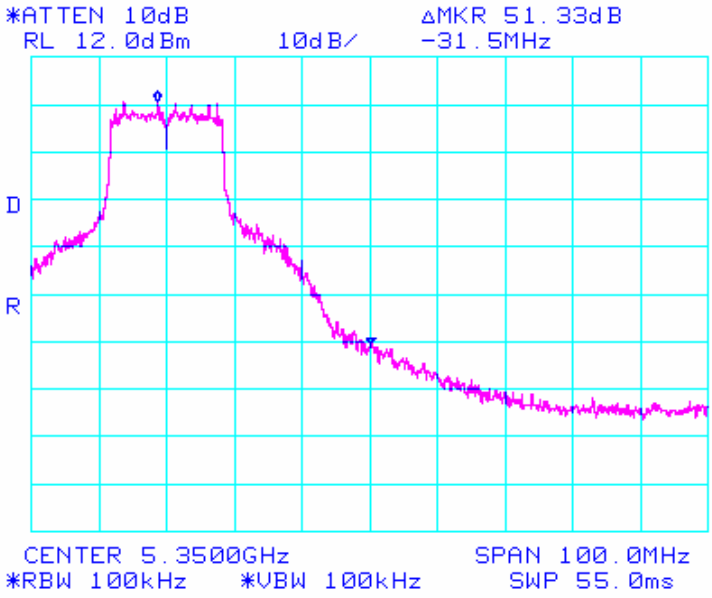


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-12d	Cond BE, Ch. 64, PK (1MHz/1MHz)	JC

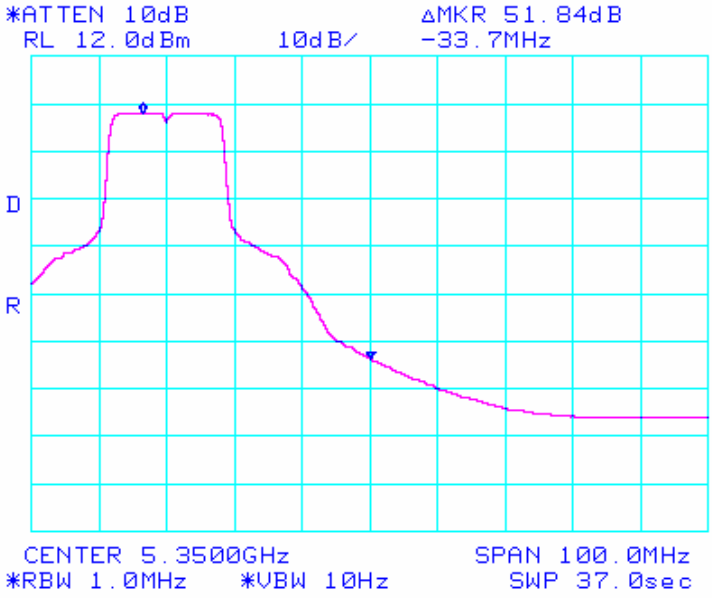


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-12e	Cond BE, Ch. 64, PK (100kHz/100kHz)	JC



Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-12f	Cond BE, Ch. 64, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in **802.11a mode (5150-5350 MHz)***
Channels 36, 40, & 48
Continuous TX** at **Chain A & B** Antenna ports with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-06

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*	*Channel/ Chain Tested*
3466.66	52.83	100	315			47.64	3.06	32.79	41.05	68.00	-26.95	**Ch. 40/**
6933.33	51.83	100	315			46.25	4.40	35.79	45.77	68.00	-22.23	**A**
3466.66	52.83	100	315			47.64	3.06	32.79	41.05	68.00	-26.95	**Ch. 40/**
6933.33	51.67	100	0			46.25	4.40	35.79	45.61	68.00	-22.39	**B**
3453.33	53.33	100	0			47.64	3.06	32.79	41.54	68.00	-26.46	**Ch. 36/**
6906.66	53.83	100	0			46.29	4.39	35.78	47.71	68.00	-20.29	**A**
3493.33	53.17	100	0			47.62	3.06	32.80	41.41	68.00	-26.59	**Ch. 48/**
6986.66	52.33	100	45			46.16	4.42	35.80	46.39	68.00	-21.61	**A**

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*
3466.66	53.83	100	315			47.64	3.06	32.59	41.85	68.00	-26.15	**Ch. 40/**
6933.33	52.83	100	315			46.25	4.40	35.59	46.57	68.00	-21.43	**A**
3466.66	54.00	100	315			47.64	3.06	32.59	42.02	68.00	-25.98	**Ch. 40/**
6933.33	52.17	100	315			46.25	4.40	35.59	45.91	68.00	-22.09	**B**
3453.33	53.67	100	0			47.64	3.06	32.59	41.68	68.00	-26.32	**Ch. 36/**
6906.66	55.00	100	0			46.29	4.39	35.58	48.68	68.00	-19.32	**B**
3493.33	51.67	100	0			47.62	3.06	32.60	39.71	68.00	-28.29	**Ch. 48/**
6986.66	51.67	100	0			0.00	0.00	0.00	51.67	68.00	-16.33	**B**

Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in **802.11a mode (5150-5350 MHz)***
Channels 52, 56, & 64
Continuous TX** at **Chain A & B** Antenna ports with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-06

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*	*Channel/ Chain Tested*
3520.00	52.17	100	0			47.62	3.08	32.82	40.46	68.00	-27.54	**Ch. 56/A**
3520.00	52.67	100	0			47.62	3.08	32.82	40.96	68.00	-27.04	**Ch. 56/B**
3506.66	52.83	100	0			47.62	3.07	32.81	41.09	68.00	-26.91	**Ch. 52/**
7013.33	51.17	100	0			46.13	4.43	35.80	45.28	68.00	-22.72	**B**
3546.66	53.50	100	0			47.62	3.12	32.86	41.85	68.00	-26.15	**Ch. 64/**
7093.33	52.50	100	45			46.05	4.46	35.78	46.70	68.00	-21.30	**B**

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*
3520.00	52.50	100	0			47.62	3.08	32.63	40.60	68.00	-27.40	**Ch. 56/**
7040.00	51.83	100	0			46.10	4.44	35.61	45.78	68.00	-22.22	**A**
3520.00	52.67	100	0			47.62	3.08	32.63	40.77	68.00	-27.23	**Ch. 56/**
7040.00	52.50	100	0			46.10	4.44	35.61	46.45	68.00	-21.55	**B**
3506.66	53.50	100	0			47.62	3.07	32.61	41.56	68.00	-26.44	**Ch. 52/**
7013.33	52.67	100	0			46.13	4.43	35.60	46.58	68.00	-21.42	**A**
3546.66	53.33	100	0			47.62	3.12	32.67	41.50	68.00	-26.50	**Ch. 64/**
7093.33	52.00	100	0			46.05	4.46	35.62	46.03	68.00	-21.97	**A**

RADIATED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	**DATE:**	08/17/09
EUT:	Intel® Centrino® Ultimate-N 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A3C7C	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in **802.11n (5150-5350 MHz) mode 20MHz Wide.**	**TEMPERATURE:**	24° C
		HUMIDITY:	46% RH
		TIME:	9:30 AM

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. • 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

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:

CML = Specification Limit - F - C + D

Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11n mode 20MHz Wide (5150-5350 MHz)***
Channels 36, 40, 48, 52, 56, & 64
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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	60.75	100	45			3.77	34.28	98.80			**Ch. 36**
5180.00				53.61	A	3.77	34.28	91.66			
5200.00	61.28	100	45			3.78	34.30	99.36			**Ch. 40**
5200.00				54.76	A	3.78	34.30	92.84			
5240.00	61.16	100	45			3.80	34.34	99.30			**Ch. 48**
5240.00				53.78	A	3.80	34.34	91.92			
5260.00	62.53	100	45			3.80	34.36	100.69			**Ch. 52**
5260.00				54.81	A	3.80	34.36	92.97			
5280.00	61.89	100	0			3.81	34.38	100.08			**Ch. 56**
5280.00				54.20	A	3.81	34.38	92.39			
5320.00	61.65	100	45			3.83	34.42	99.90			**Ch. 64**
5320.00				53.42	A	3.83	34.42	91.67			

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	62.76	100	270			3.77	34.48	101.01			**Ch. 36**
5180.00				52.95	A	3.77	34.48	91.20			
5200.00	63.51	100	315			3.78	34.50	101.79			**Ch. 40**
5200.00				54.38	A	3.78	34.50	92.66			
5240.00	64.15	100	315			3.80	34.54	102.49			**Ch. 48**
5240.00				54.77	A	3.80	34.54	93.11			
5260.00	65.38	100	0			3.80	34.56	103.74			**Ch. 52**
5260.00				55.58	A	3.80	34.56	93.94			
5280.00	64.26	100	315			3.81	34.58	102.65			**Ch. 56**
5280.00				54.32	A	3.81	34.58	92.71			
5320.00	65.65	100	315			3.83	34.62	104.10			**Ch. 64**
5320.00				56.13	A	3.83	34.62	94.58			

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 **802.11n mode 20MHz Wide (5150-5350 MHz)***
Channels 36 & 64
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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								55.97	74.00	-18.03	**Ch. 36**
5150.00								49.64	74.00	-24.36	
5150.00					A			42.49	54.00	-11.51	
5150.00					A			42.50	54.00	-11.50	
5350.00								53.23	74.00	-20.77	**Ch. 64**
5350.00								48.23	74.00	-25.77	
5350.00					A			39.00	54.00	-15.00	
5350.00					A			40.00	54.00	-14.00	

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								58.18	74.00	-15.82	**Ch. 36**
5150.00								51.85	74.00	-22.15	
5150.00					A			42.03	54.00	-11.97	
5150.00					A			42.04	54.00	-11.96	
5350.00								57.43	74.00	-16.57	**Ch. 64**
5350.00								52.43	74.00	-21.57	
5350.00					A			41.91	54.00	-12.09	
5350.00					A			42.91	54.00	-11.09	

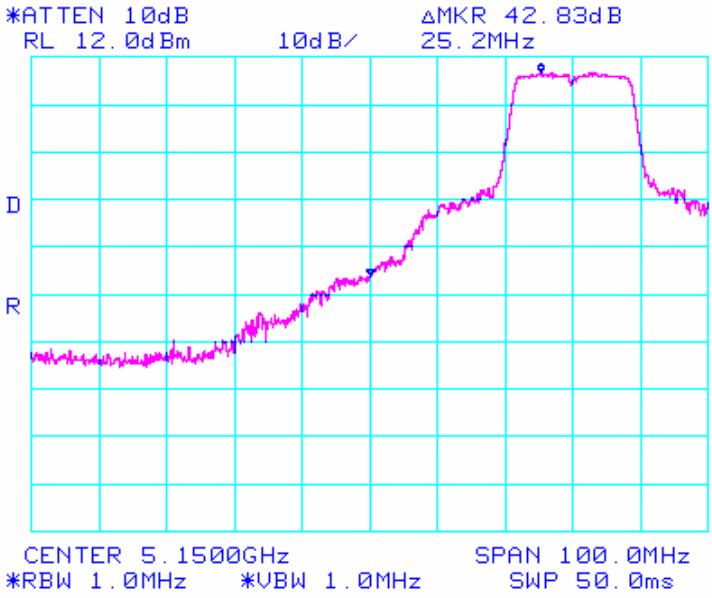
NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

BE = Fm – Δm

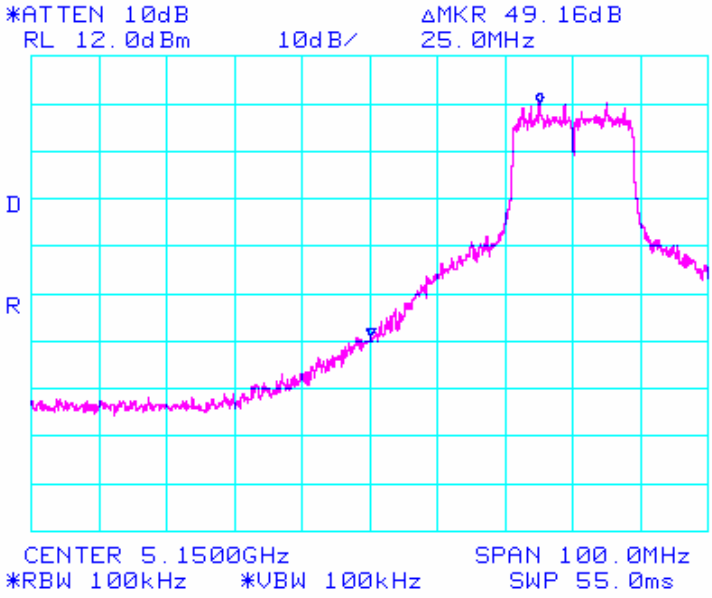
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-06a	Cond BE, Ch. 36, PK (1MHz/1MHz)	JC

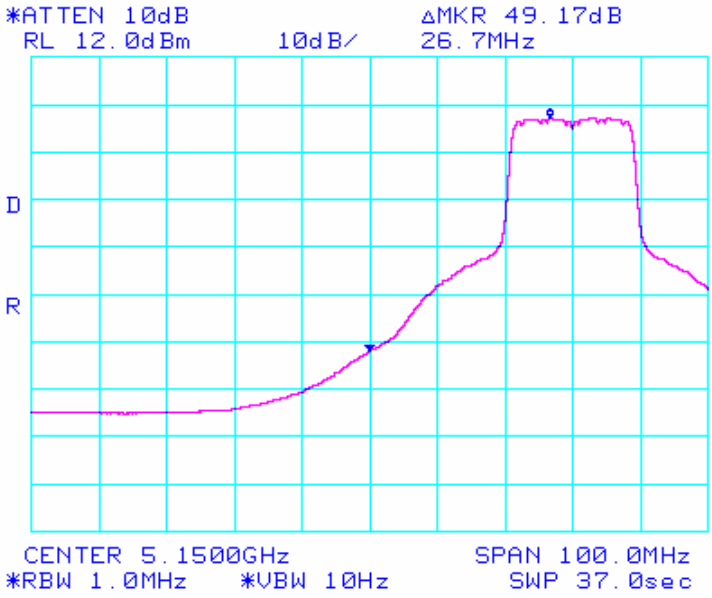


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-06b	Cond BE, Ch. 36, PK (100kHz/100kHz)	JC

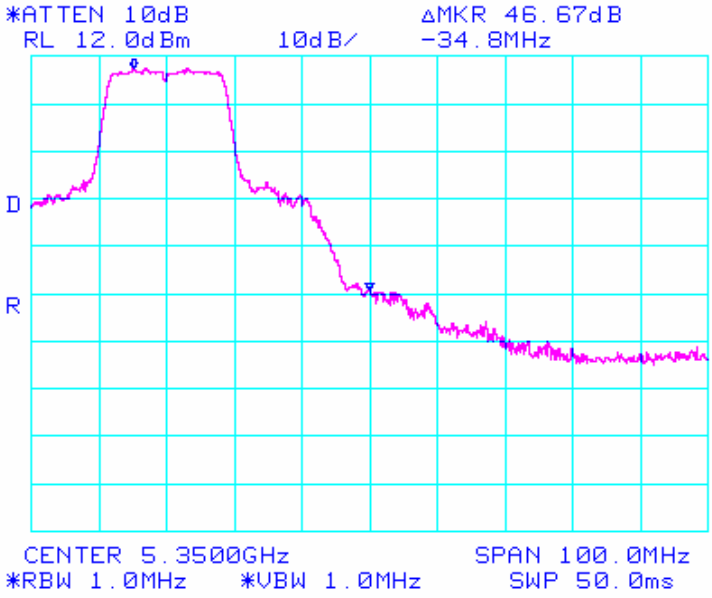


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-06c	Cond BE, Ch. 36, AV (1MHz/10Hz)	JC

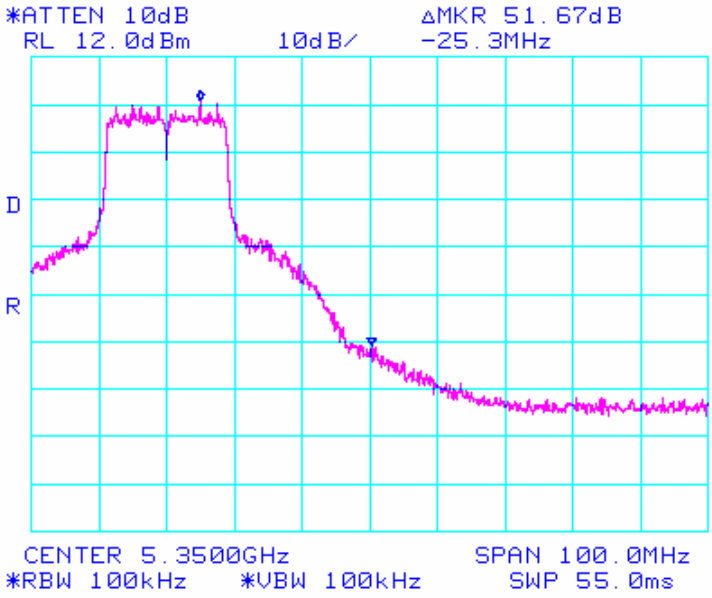


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-06d	Cond BE, Ch. 64, PK (1MHz/1MHz)	JC

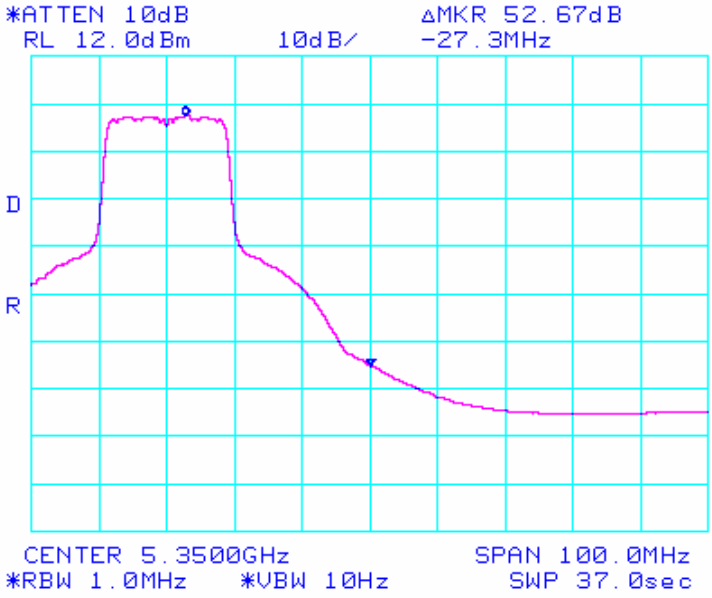


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-06e	Cond BE, Ch. 64, PK (100kHz/100kHz)	JC



Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-06f	Cond BE, Ch. 64, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11n mode 20MHz Wide (5150-5350 MHz)***
Channels 36, 40, 48, 52, 56, & 64
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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	63.67	100	315			3.77	34.28	101.72			**Ch. 36**
5180.00				53.83	A	3.77	34.28	91.88			
5200.00	64.33	100	315			3.78	34.30	102.41			**Ch. 40**
5200.00				54.67	A	3.78	34.30	92.75			
5240.00	63.17	100	0			3.80	34.34	101.31			**Ch. 48**
5240.00				54.00	A	3.80	34.34	92.14			
5260.00	65.00	100	315			3.80	34.36	103.16			**Ch. 52**
5260.00				55.83	A	3.80	34.36	93.99			
5280.00	64.33	100	315			3.81	34.38	102.52			**Ch. 64**
5280.00				55.00	A	3.81	34.38	93.19			

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	63.00	100	315			3.77	34.48	101.25			**Ch. 36**
5180.00				53.17	A	3.77	34.48	91.42			
5200.00	63.67	100	315			3.78	34.50	101.95			**Ch. 40**
5200.00				54.67	A	3.78	34.50	92.95			
5240.00	64.33	100	0			3.80	34.54	102.67			**Ch. 48**
5240.00				55.00	A	3.80	34.54	93.34			
5260.00	65.50	100	315			3.80	34.56	103.86			**Ch. 52**
5260.00				55.83	A	3.80	34.56	94.19			
5280.00	64.67	100	315			3.81	34.58	103.06			**Ch. 64**
5280.00				54.50	A	3.81	34.58	92.89			

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 **802.11n mode 20MHz Wide (5150-5350 MHz)***
Channels 36 & 64
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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								58.55	74.00	-15.45	**Ch. 36**
5150.00								53.06	74.00	-20.94	
5150.00					A			43.71	54.00	-10.29	
5150.00					A			43.22	54.00	-10.78	
5350.00								56.42	74.00	-17.58	**Ch. 64**
5350.00								50.08	74.00	-23.92	
5350.00					A			41.75	54.00	-12.25	
5350.00					A			40.58	54.00	-13.42	

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								58.08	74.00	-15.92	**Ch. 36**
5150.00								52.59	74.00	-21.41	
5150.00					A			43.25	54.00	-10.75	
5150.00					A			42.76	54.00	-11.24	
5350.00								58.28	74.00	-15.72	**Ch. 64**
5350.00								51.94	74.00	-22.06	
5350.00					A			43.61	54.00	-10.39	
5350.00					A			42.44	54.00	-11.56	

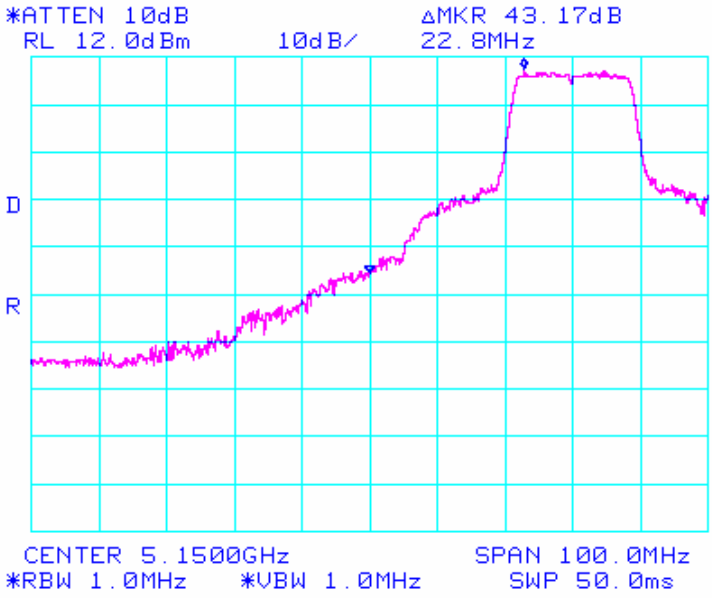
NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

BE = Fm – Δm

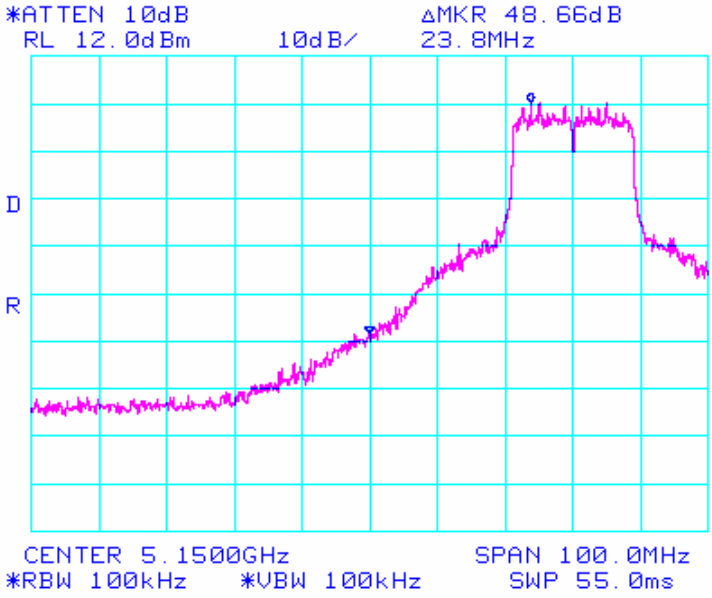
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-13a	Cond BE, Ch. 36, PK (1MHz/1MHz)	JC

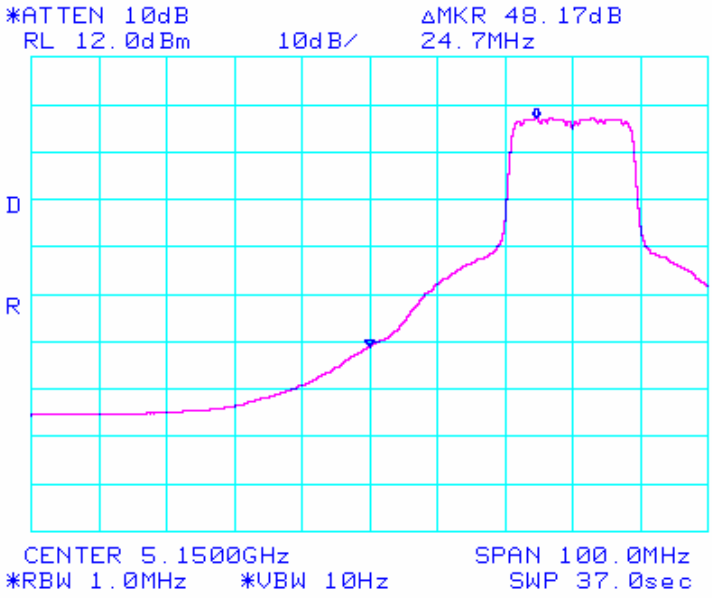


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-13b	Cond BE, Ch. 36, PK (100kHz/100kHz)	JC

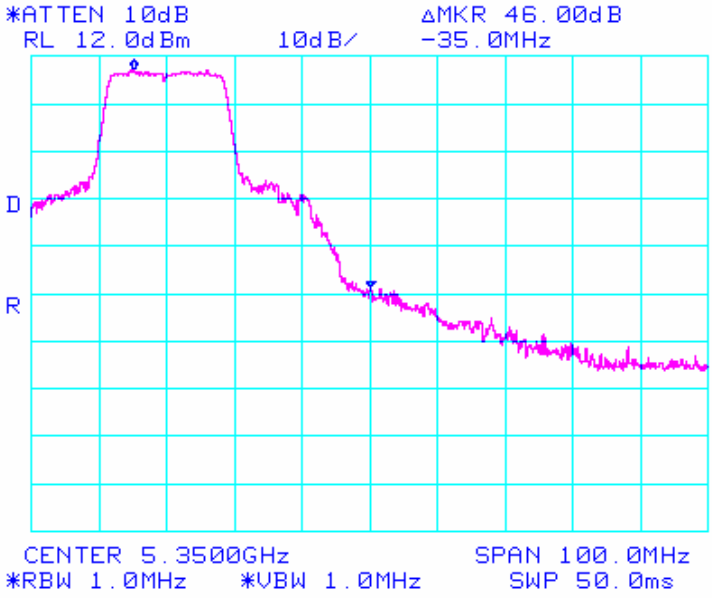


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-13c	Cond BE, Ch. 36, AV (1MHz/10Hz)	JC

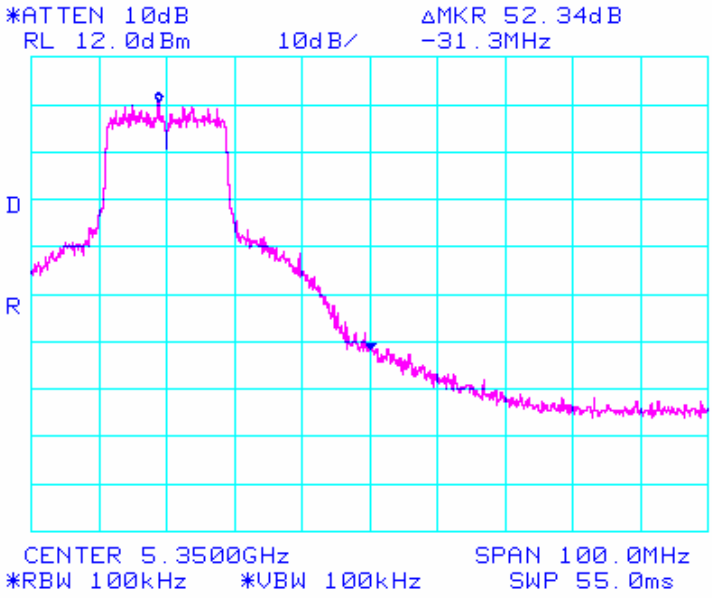


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-13d	Cond BE, Ch. 64, PK (1MHz/1MHz)	JC

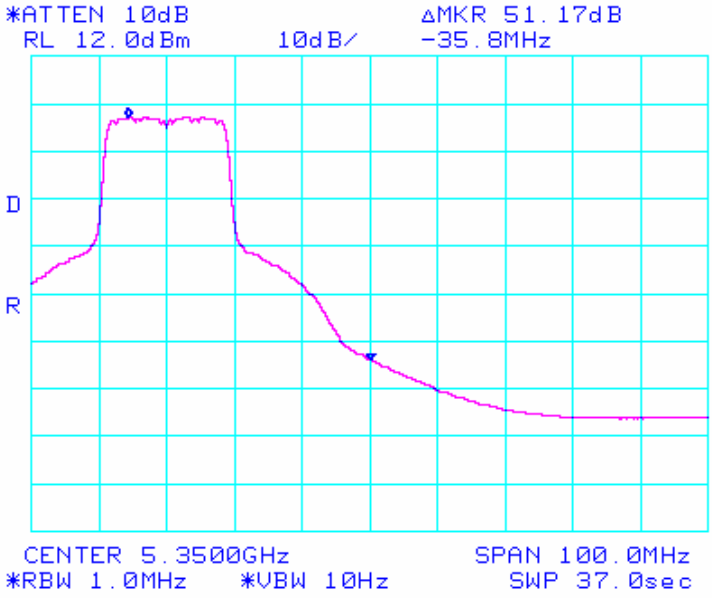


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-13e	Cond BE, Ch. 64, PK (100kHz/100kHz)	JC



Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-13f	Cond BE, Ch. 64, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in **802.11n mode 20MHz Wide (5150-5350 MHz)***
Channels 36, 40, & 48
Continuous TX** at **Chain A & B** Antenna ports with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-07

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*	*Channel/ Chain Tested*
3466.66	52.33	100	315			47.64	3.06	32.79	40.55	68.00	-27.45	**Ch. 40/A**
3466.66	51.00	100	270			47.64	3.06	32.79	39.22	68.00	-28.78	**Ch. 40/**
6933.33	52.33	100	0			46.25	4.40	35.79	46.27	68.00	-21.73	**B**
3453.33	52.17	100	315			47.64	3.06	32.79	40.38	68.00	-27.62	**Ch. 36/**
6906.66	54.33	100	0			46.29	4.39	35.78	48.21	68.00	-19.79	**B**
3493.33	52.83	100	315			47.62	3.06	32.80	41.07	68.00	-26.93	**Ch. 48/**
6986.66	51.67	100	0			46.16	4.42	35.80	45.73	68.00	-22.27	**B**

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*
3466.66	53.83	100	0			47.64	3.06	32.59	41.85	68.00	-26.15	**Ch. 40/**
6933.33	53.17	100	45			46.25	4.40	35.59	46.91	68.00	-21.09	**A**
3466.66	54.00	100	0			47.64	3.06	32.59	42.02	68.00	-25.98	**Ch. 40/**
6933.33	54.17	100	45			46.25	4.40	35.59	47.91	68.00	-20.09	**B**
3453.33	54.50	100	0			47.64	3.06	32.59	42.51	68.00	-25.49	**Ch. 36/**
6906.66	54.33	100	45			46.29	4.39	35.58	48.01	68.00	-19.99	**B**
3493.33	54.17	100	0			47.62	3.06	32.60	42.21	68.00	-25.79	**Ch. 48/**
6986.66	52.67	100	45			46.16	4.42	35.60	46.53	68.00	-21.47	**B**

Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in **802.11n mode 20MHz Wide (5150-5350 MHz)***
Channels 52, 56, & 64
Continuous TX** at **Chain A & B** Antenna ports with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-07

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*	*Channel/ Chain Tested*
3520.00	52.67	100	0			47.62	3.08	32.82	40.96	68.00	-27.04	**Ch. 56/A**
7040.00	51.17	100	45			46.10	4.44	35.79	45.31	68.00	-22.69	**Ch. 56/B**
3506.66	53.67	100	0			47.62	3.07	32.81	41.93	68.00	-26.07	**Ch. 52/**
7013.33	52.17	100	0			46.13	4.43	35.80	46.28	68.00	-21.72	**B**
3546.66	53.50	100	0			47.62	3.12	32.86	41.85	68.00	-26.15	**Ch. 64/**
7093.33	52.33	100	0			46.05	4.46	35.78	46.53	68.00	-21.47	**B**

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*
3520.00	53.67	100	0			47.62	3.08	32.63	41.77	68.00	-26.23	**Ch. 56/**
7040.00	52.67	100	90			46.10	4.44	35.61	46.62	68.00	-21.38	**A**
3520.00	53.67	100	0			47.62	3.08	32.63	41.77	68.00	-26.23	**Ch. 56/**
7040.00	52.50	100	90			46.10	4.44	35.61	46.45	68.00	-21.55	**B**
3506.66	53.83	100	0			47.62	3.07	32.61	41.89	68.00	-26.11	**Ch. 52/**
7013.33	53.67	100	45			46.13	4.43	35.60	47.58	68.00	-20.42	**A**
10519.98	50.17	100	45			45.29	5.56	37.52	47.97	68.00	-20.03	
3546.66	53.33	100	45			47.62	3.12	32.67	41.50	68.00	-26.50	**Ch. 64/**
7093.33	54.83	100	90			46.05	4.46	35.62	48.86	68.00	-19.14	**A**
10639.98	51.00	100	0			45.28	5.59	37.67	48.97	68.00	-19.03	

Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in ***802.11n mode 20MHz Wide (5150-5350 MHz)***
Channels 36, 40, & 48
Continuous TX *at* ***Dual Chain AB*** *Antenna ports with* ***Shanghai Universe Antennas***
Aegis Labs, Inc. File #: INTEL-090601-07

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*	*Channel/ Chain Tested*
3453.33	53.33	100	225			50.71	3.06	32.78	38.47	68.00	-29.53	**Ch. 36/**
6906.66	58.00	100	180			50.50	4.39	35.68	47.57	68.00	-20.43	**AB**
10359.99	58.33	100	180			50.39	5.52	37.42	50.88	68.00	-17.12	
3466.66	52.17	100	45			50.72	3.06	32.79	37.30	68.00	-30.70	**Ch. 40/**
6933.33	55.50	100	135			50.48	4.40	35.69	45.11	68.00	-22.89	**AB**
10399.98	52.67	100	135			50.40	5.53	37.44	45.24	68.00	-22.76	
3493.33	55.17	100	225			50.75	3.06	32.80	40.28	68.00	-27.72	**Ch. 48/**
6986.66	57.83	100	180			50.44	4.42	35.70	47.51	68.00	-20.49	**AB**
10480.00	50.50	100	180			50.42	5.55	37.49	43.12	68.00	-24.88	

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	53.67	100	135			50.71	3.06	32.87	38.90	68.00	-29.10	**Ch. 36/**
6906.66	56.67	100	225			50.50	4.39	35.60	46.16	68.00	-21.84	**AB**
3466.66	53.83	100	0			50.72	3.06	32.88	39.05	68.00	-28.95	**Ch. 40/**
6933.33	54.67	100	180			50.48	4.40	35.60	44.19	68.00	-23.81	**AB**
10399.99	53.33	100	135			50.40	5.53	37.44	45.90	68.00	-22.10	
3493.33	55.17	100	135			50.75	3.06	32.90	40.37	68.00	-27.63	**Ch. 48/**
6986.66	53.50	100	180			50.44	4.42	35.60	43.08	68.00	-24.92	**AB**

Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in **802.11n mode 20MHz Wide (5150-5350 MHz)***
Channels 52, 56, & 64
Continuous TX** at **Dual Chain AB** Antenna ports with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-07

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*	*Channel/ Chain Tested*
3506.66	53.17	100	315			50.75	3.07	32.81	38.29	68.00	-29.71	**Ch. 52/**
7013.32	57.83	100	135			50.42	4.43	35.71	47.55	68.00	-20.45	**AB**
3520.00	52.50	100	270			50.74	3.08	32.82	37.67	68.00	-30.33	**Ch. 56/**
7040.00	52.33	100	225			50.41	4.44	35.72	42.09	68.00	-25.91	**AB**
3546.66	54.33	100	270			50.71	3.12	32.86	39.59	68.00	-28.41	**Ch. 64/**
7093.32	54.17	100	135			50.38	4.46	35.76	44.01	68.00	-23.99	**AB**

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*
3506.66	54.17	100	135			50.75	3.07	32.91	39.39	68.00	-28.61	**Ch. 52/**
7013.32	54.50	100	135			50.42	4.43	35.61	44.12	68.00	-23.88	**AB**
10520.00	51.33	100	135			50.43	5.56	37.52	43.98	68.00	-24.02	
3520.00	53.50	100	0			50.74	3.08	32.92	38.76	68.00	-29.24	**Ch. 56/**
7040.00	54.33	100	135			50.41	4.44	35.64	44.00	68.00	-24.00	**AB**
10560.00	53.67	100	135			50.43	5.57	37.55	46.36	68.00	-21.64	
3546.66	53.83	100	135			50.71	3.12	32.95	39.18	68.00	-28.82	**Ch. 64/**
7093.32	53.33	100	135			50.38	4.46	35.69	43.10	68.00	-24.90	**AB**

RADIATED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	**DATE:**	08/17/09
EUT:	Intel® Centrino® Ultimate-N 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A3C7C	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in **802.11n (5150-5350 MHz) mode 40MHz Wide.**	**TEMPERATURE:**	24° C
		HUMIDITY:	46% RH
		TIME:	9:30 AM

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. • 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

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:

CML = Specification Limit - F - C + D

Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11n mode 40MHz Wide (5150-5350 MHz)***
Channels 38, 46, 54, & 62
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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*
5190.00	59.11	100	45			3.78	34.29	97.18			**Ch. 38**
5190.00				49.59	A	3.78	34.29	87.66			
5230.00	60.54	100	0			3.79	34.33	98.66			**Ch. 46**
5230.00				50.76	A	3.79	34.33	88.88			
5270.00	61.20	100	0			3.81	34.37	99.38			**Ch. 54**
5270.00				51.84	A	3.81	34.37	90.02			
5310.00	60.79	100	45			3.82	34.41	99.02			**Ch. 62**
5310.00				51.16	A	3.82	34.41	89.39			

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*
5190.00	60.08	100	315			3.78	34.49	98.35			**Ch. 38**
5190.00				49.41	A	3.78	34.49	87.68			
5230.00	61.57	100	315			3.79	34.53	99.89			**Ch. 46**
5230.00				51.63	A	3.79	34.53	89.95			
5270.00	62.69	100	45			3.81	34.57	101.07			**Ch. 54**
5270.00				52.49	A	3.81	34.57	90.87			
5310.00	61.24	100	45			3.82	34.61	99.67			**Ch. 62**
5310.00				50.96	A	3.82	34.61	89.39			

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 **802.11n mode 40MHz Wide (5150-5350 MHz)***
Channels 38 & 62
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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								63.02	74.00	-10.98	**Ch. 38**
5150.00								58.35	74.00	-15.65	
5150.00					A			50.83	54.00	-3.17	
5150.00					A			48.83	54.00	-5.17	
5350.00								63.02	74.00	-10.98	**Ch. 62**
5350.00								60.02	74.00	-13.98	
5350.00					A			50.56	54.00	-3.44	
5350.00					A			50.39	54.00	-3.61	

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								64.19	74.00	-9.81	**Ch. 38**
5150.00								59.52	74.00	-14.48	
5150.00					A			50.85	54.00	-3.15	
5150.00					A			48.85	54.00	-5.15	
5350.00								63.67	74.00	-10.33	**Ch. 62**
5350.00								60.67	74.00	-13.33	
5350.00					A			50.56	54.00	-3.44	
5350.00					A			50.39	54.00	-3.61	

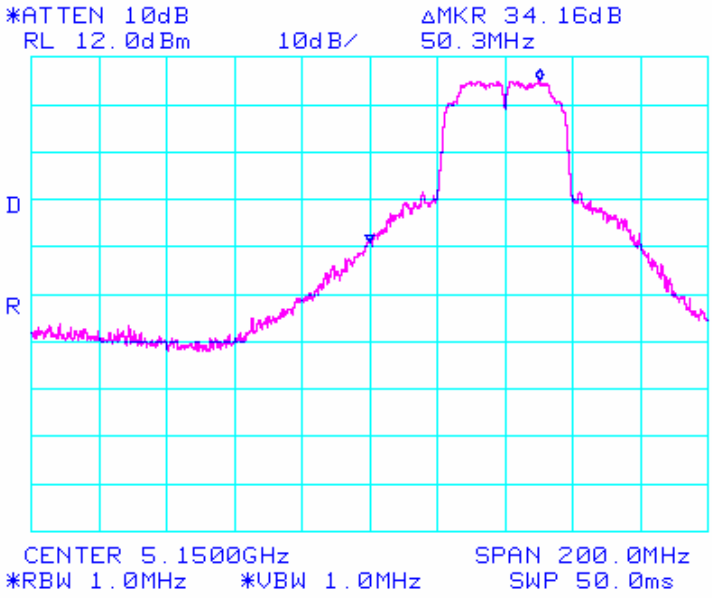
NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

BE = Fm – Δm

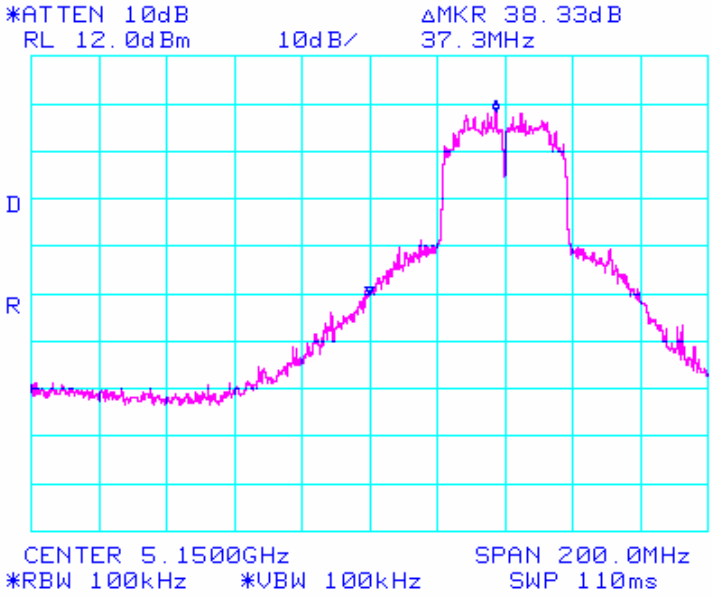
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-07a	Cond BE, Ch. 38, PK (1MHz/1MHz)	JC

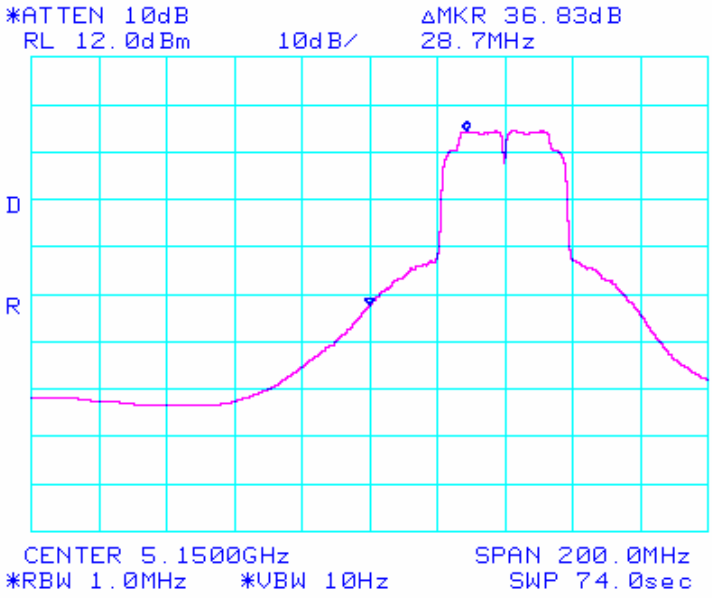


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-07b	Cond BE, Ch. 38, PK (100kHz/100kHz)	JC

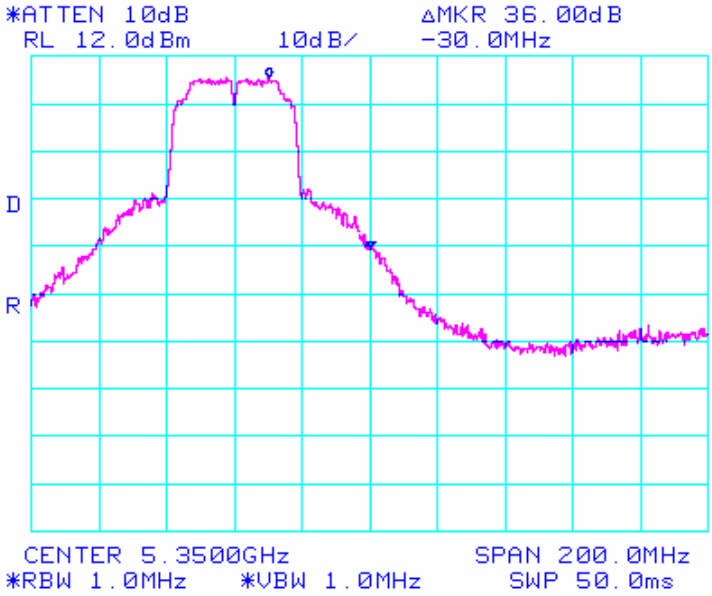


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-07c	Cond BE, Ch. 38, AV (1MHz/10Hz)	JC

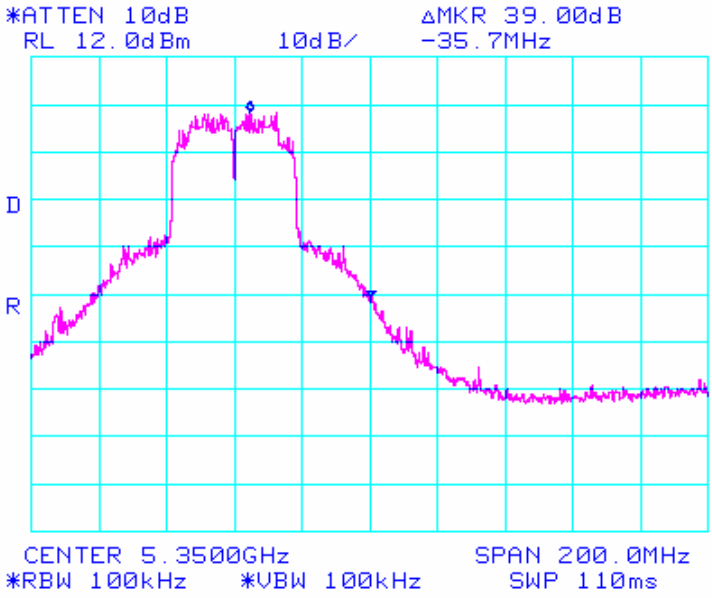


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-07d	Cond BE, Ch. 62, PK (1MHz/1MHz)	JC

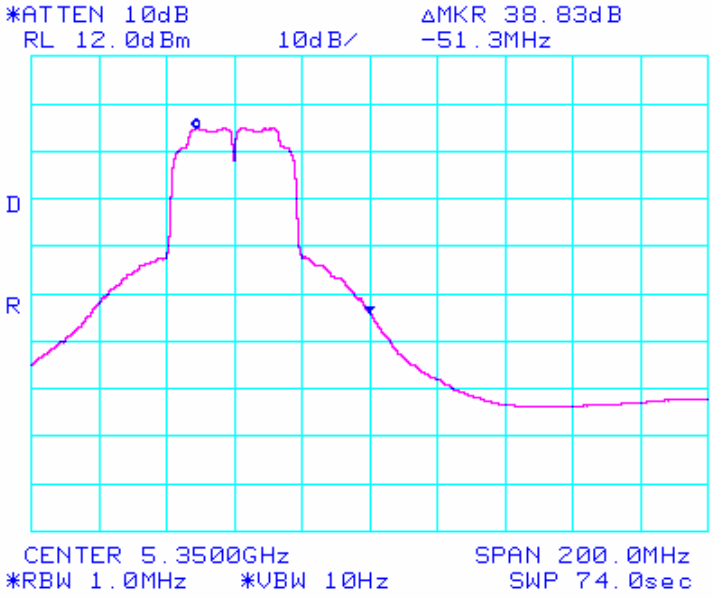


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-07e	Cond BE, Ch. 62, PK (100kHz/100kHz)	JC



Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-07f	Cond BE, Ch. 62, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11n mode 40MHz Wide (5150-5350 MHz)***
Channels 38, 46, 54, & 62
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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*
5190.00	59.33	100	180			3.78	34.29	97.40			**Ch. 38**
5190.00				48.76	A	3.78	34.29	86.83			
5230.00	60.67	100	180			3.79	34.33	98.79			**Ch. 46**
5230.00				50.49	A	3.79	34.33	88.61			
5270.00	62.00	100	315			3.81	34.37	100.18			**Ch. 54**
5270.00				52.85	A	3.81	34.37	91.03			
5310.00	61.00	100	315			3.82	34.41	99.23			**Ch. 62**
5310.00				51.02	A	3.82	34.41	89.25			

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*
5190.00	59.50	100	90			3.78	34.49	97.77			**Ch. 38**
5190.00				48.67	A	3.78	34.49	86.94			
5230.00	61.00	100	90			3.79	34.53	99.32			**Ch. 46**
5230.00				50.33	A	3.79	34.53	88.65			
5270.00	62.17	100	45			3.81	34.57	100.55			**Ch. 54**
5270.00				51.67	A	3.81	34.57	90.05			
5310.00	61.17	100	45			3.82	34.61	99.60			**Ch. 62**
5310.00				50.50	A	3.82	34.61	88.93			

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 **802.11n mode 40MHz Wide (5150-5350 MHz)***
Channels 38 & 62
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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								63.90	74.00	-10.10	**Ch. 38**
5150.00								60.24	74.00	-13.76	
5150.00					A			50.83	54.00	-3.17	
5150.00					A			49.67	54.00	-4.33	
5350.00								63.23	74.00	-10.77	**Ch. 62**
5350.00								59.90	74.00	-14.10	
5350.00					A			50.91	54.00	-3.09	
5350.00					A			49.92	54.00	-4.08	

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								64.27	74.00	-9.73	**Ch. 38**
5150.00								60.61	74.00	-13.39	
5150.00					A			50.94	54.00	-3.06	
5150.00					A			49.78	54.00	-4.22	
5350.00								63.60	74.00	-10.40	**Ch. 62**
5350.00								60.27	74.00	-13.73	
5350.00					A			50.59	54.00	-3.41	
5350.00					A			49.60	54.00	-4.40	

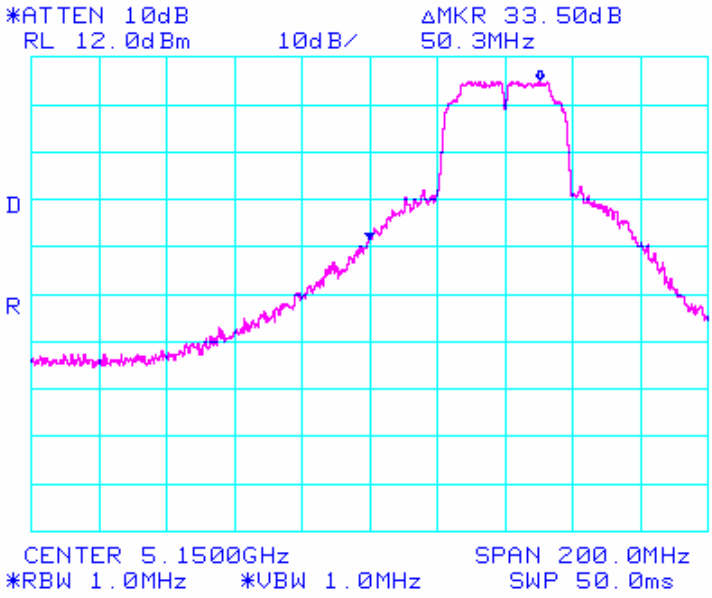
NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

BE = Fm – Δm

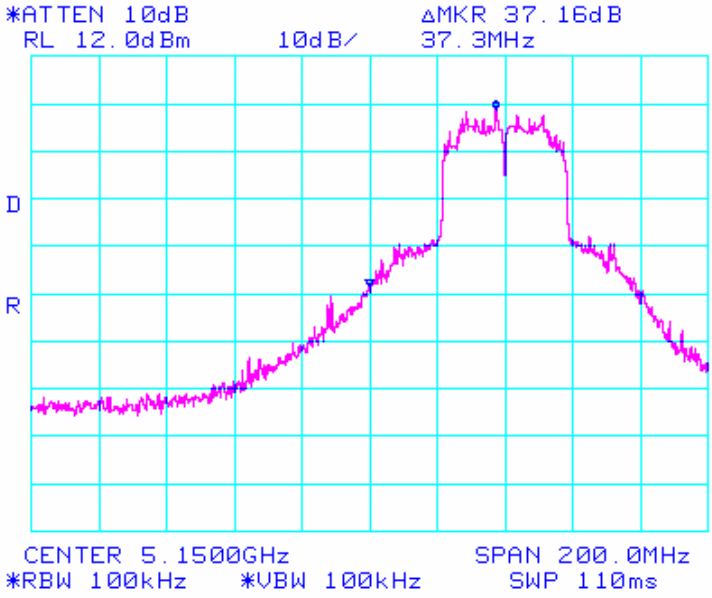
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-14a	Cond BE, Ch. 38, PK (1MHz/1MHz)	JC

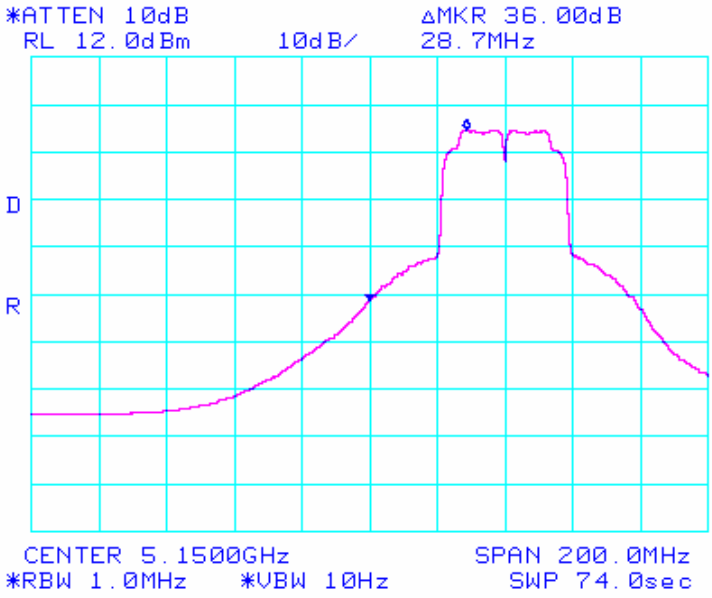


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-14b	Cond BE, Ch. 38, PK (100kHz/100kHz)	JC

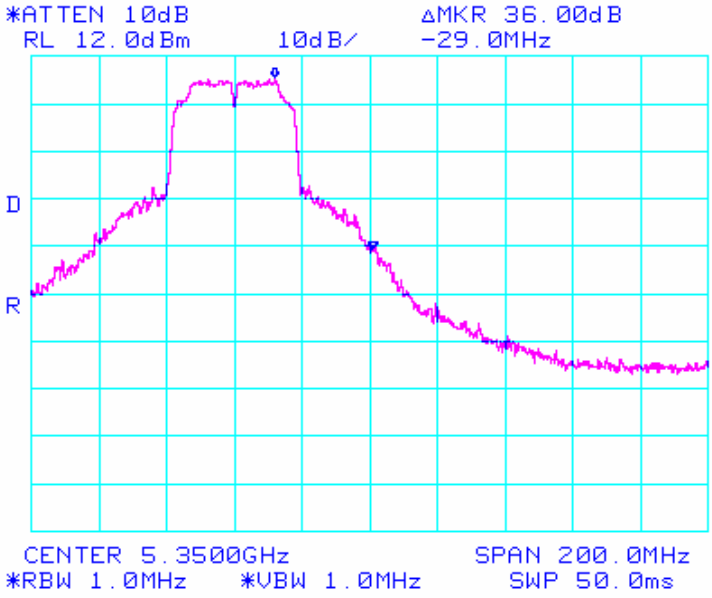


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-14c	Cond BE, Ch. 38, AV (1MHz/10Hz)	JC

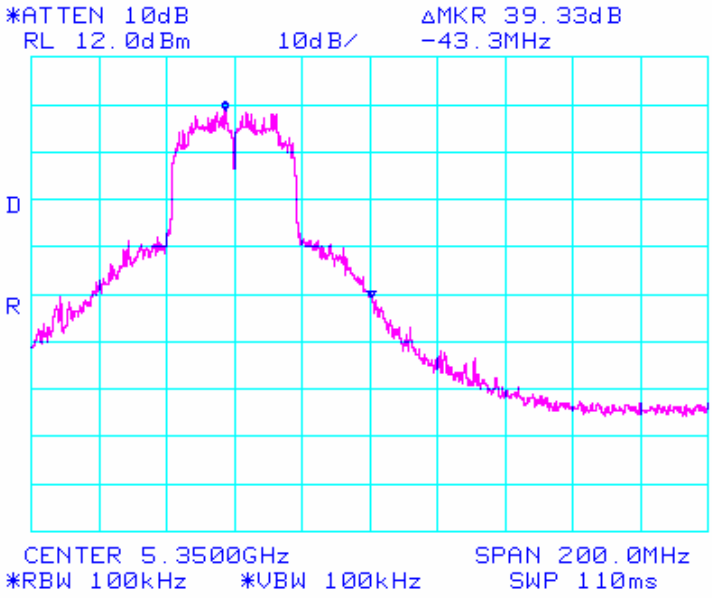


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-14d	Cond BE, Ch. 62, PK (1MHz/1MHz)	JC

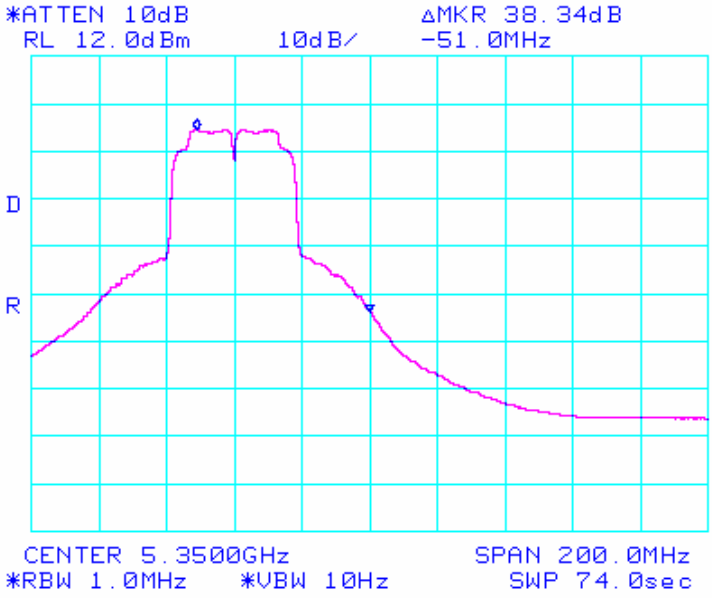


Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-14e	Cond BE, Ch. 62, PK (100kHz/100kHz)	JC



Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-14f	Cond BE, Ch. 62, AV (1MHz/10Hz)	JC



RADIATED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	**DATE:**	08/17/09
EUT:	Intel® Centrino® Ultimate-N 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A3C7C	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in **802.11a (5470-5725 MHz) mode.**	**TEMPERATURE:**	24° C
		HUMIDITY:	46% RH
		TIME:	9:30 AM

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. • 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

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:

CML = Specification Limit - F - C + D

Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11a mode (5470-5725 MHz)***
Channels 100, 120, & 140
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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*
5500.00	60.90	100	45			3.89	34.60	99.39			**Ch. 100**
5500.00				54.07	A	3.89	34.60	92.56			
5600.00	61.45	100	45			3.93	34.72	100.10			**Ch. 120**
5600.00				54.60	A	3.93	34.72	93.25			
5700.00	58.84	100	45			3.97	34.84	97.65			**Ch. 140**
5700.00				52.07	A	3.97	34.84	90.88			

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*
5500.00	65.96	100	315			3.89	34.80	104.65			**Ch. 100**
5500.00				56.41	A	3.89	34.80	95.10			
5600.00	66.42	100	315			3.93	34.90	105.25			**Ch. 120**
5600.00				56.89	A	3.93	34.90	95.72			
5700.00	65.39	100	315			3.97	35.00	104.36			**Ch. 140**
5700.00				55.80	A	3.97	35.00	94.77			

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 (5470-5725 MHz)***
Channels 100 & 140
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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*
5460.00								46.73	74.00	-27.27	**Ch. 100**
5460.00								41.89	74.00	-32.11	
5460.00					A			34.06	54.00	-19.94	
5460.00					A			35.06	54.00	-18.94	
5725.00	27.33	100	45			3.98	34.87	66.18	77.65	-11.47	**Ch. 140**

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*
5460.00								51.99	74.00	-22.01	**Ch. 100**
5460.00								47.15	74.00	-26.85	
5460.00					A			36.60	54.00	-17.40	
5460.00					A			37.60	54.00	-16.40	
5725.00	30.28	100	315			3.98	35.03	69.28	84.36	-15.08	**Ch. 140**

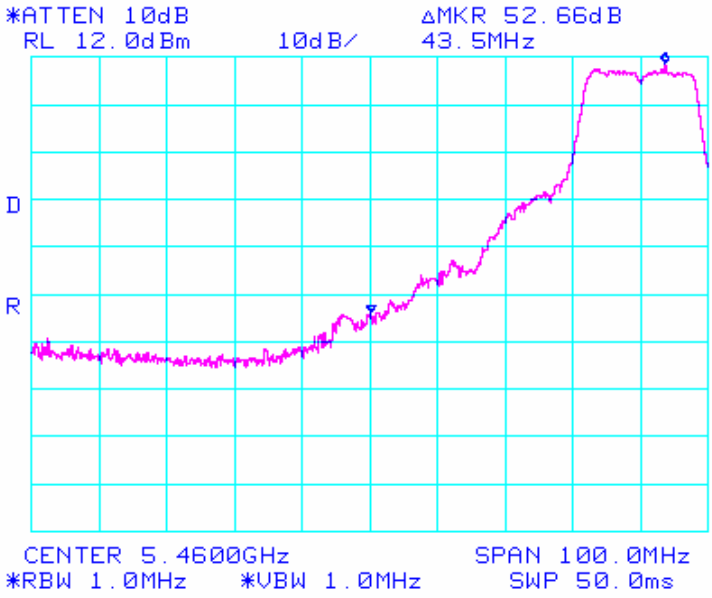
NOTE: The "Band Edge Field Strength" was calculated using the "Fundamental" and "Conducted Band Edge" measurements per the "Marker-Delta Method" with the following formula:

BE = Fm – Δm

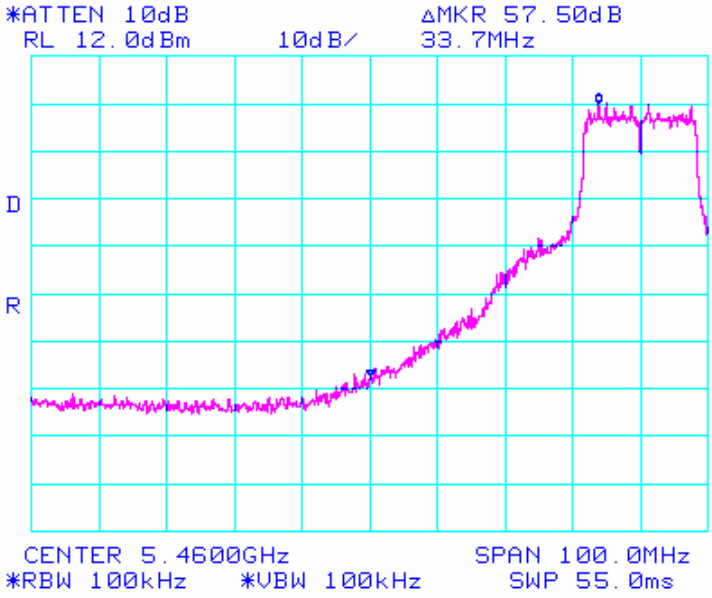
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-05g	Cond BE, Ch. 100, PK (1MHz/1MHz)	JC

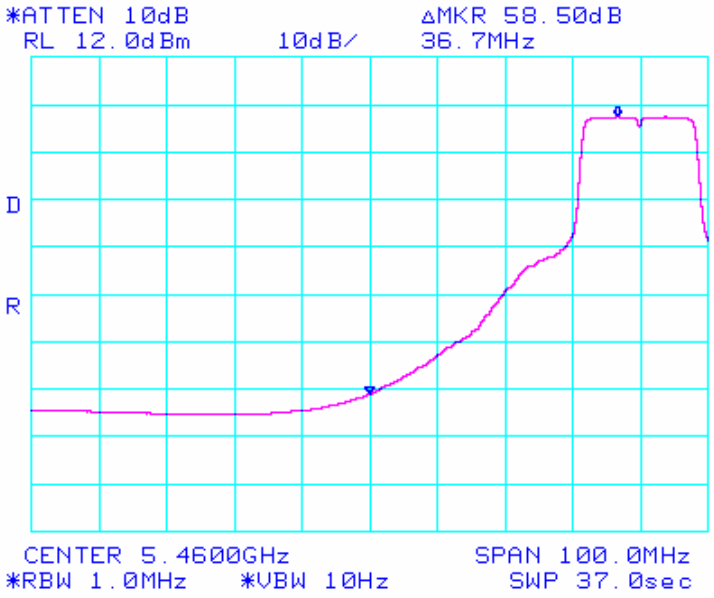


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-05h	Cond BE, Ch. 100, PK (100kHz/100kHz)	JC



Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-05i	Cond BE, Ch. 100, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11a mode (5470-5725 MHz)***
Channels 100, 120, & 140
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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*
5500.00	65.17	100	0			3.89	34.60	103.66			**Ch. 100**
5500.00				56.33	A	3.89	34.60	94.82			
5600.00	65.50	100	315			3.93	34.72	104.15			**Ch. 120**
5600.00				55.33	A	3.93	34.72	93.98			
5700.00	64.67	100	315			3.97	34.84	103.48			**Ch. 140**
5700.00				55.00	A	3.97	34.84	93.81			

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*
5500.00	66.17	100	315			3.89	34.80	104.86			**Ch. 100**
5500.00				56.00	A	3.89	34.80	94.69			
5600.00	66.67	100	0			3.93	34.90	105.50			**Ch. 120**
5600.00				56.67	A	3.93	34.90	95.50			
5700.00	65.33	100	315			3.97	35.00	104.30			**Ch. 140**
5700.00				55.17	A	3.97	35.00	94.14			

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 (5470-5725 MHz)***
Channels 100 & 140
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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*
5460.00								55.83	74.00	-18.17	**Ch. 100**
5460.00								50.16	74.00	-23.84	
5460.00					A			39.82	54.00	-14.18	
5460.00					A			41.32	54.00	-12.68	
5725.00	31.33	100	315			3.98	34.87	70.18	83.48	-13.30	**Ch. 140**

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*
5460.00								57.03	74.00	-16.97	**Ch. 100**
5460.00								51.36	74.00	-22.64	
5460.00					A			39.69	54.00	-14.31	
5460.00					A			41.19	54.00	-12.81	
5725.00	31.33	100	315			3.98	35.03	70.33	84.30	-13.97	**Ch. 140**

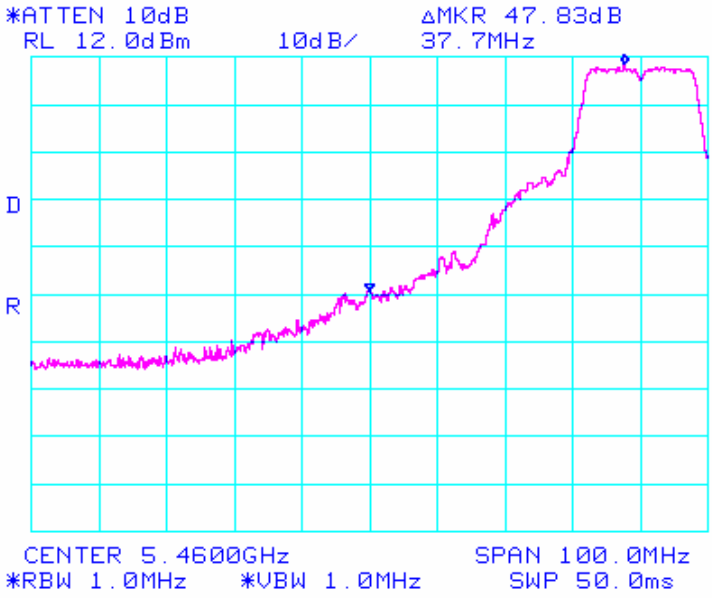
NOTE: The "Band Edge Field Strength" was calculated using the "Fundamental" and "Conducted Band Edge" measurements per the "Marker-Delta Method" with the following formula:

$BE = Fm - \Delta m$

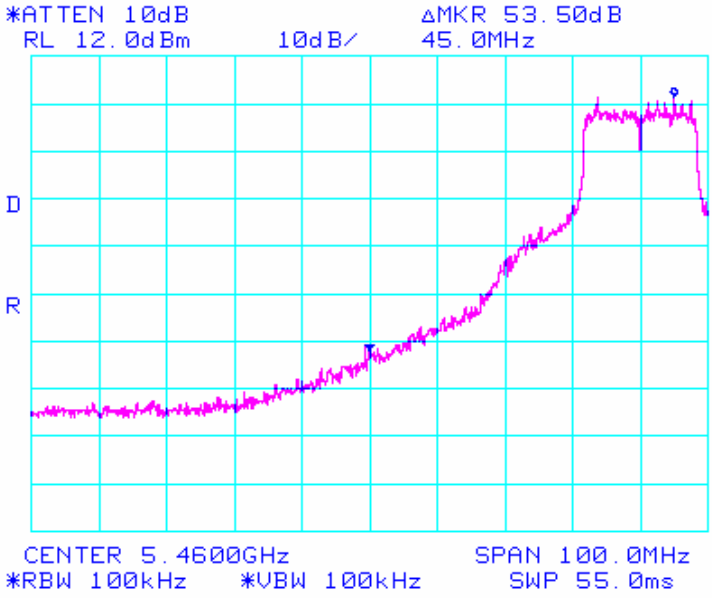
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-12g	Cond BE, Ch. 100, PK (1MHz/1MHz)	JC

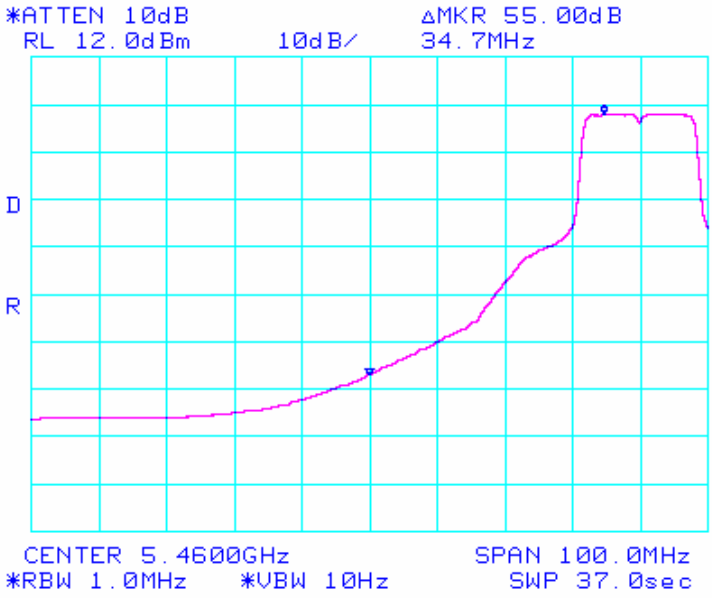


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-12h	Cond BE, Ch. 100, PK (100kHz/100kHz)	JC



Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-12i	Cond BE, Ch. 100, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in **802.11a mode (5470-5725 MHz)***
Channels 100, 120, & 140
Continuous TX** at **Chain A & B** Antenna ports with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-06

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*	*Channel/ Chain Tested*
3733.33	53.17	100	0			47.55	3.19	33.08	41.89	74.00	-32.11	**Ch. 120/A**
3733.33	53.67	100	0			47.55	3.19	33.08	42.39	74.00	-31.61	**Ch. 120/B**
3666.66	53.17	100	315			47.58	3.17	33.00	41.76	54.00	-12.24	**Ch. 100/B**
3800.00	53.50	100	270			47.54	3.24	33.16	42.36	74.00	-31.64	**Ch. 140/**
7600.00	51.67	100	315			45.60	4.64	35.76	46.46	74.00	-27.54	**B**
7600.00		100	315	40.62	A	45.60	4.64	35.76	35.41	54.00	-18.59	

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*
3733.33	53.33	100	0			47.55	3.19	32.97	41.94	74.00	-32.06	**Ch. 120/**
7466.66	51.67	100	0			45.68	4.60	35.69	46.28	74.00	-27.72	**A**
7466.66		100	0	38.78	A	45.68	4.60	35.69	33.39	54.00	-20.61	
3733.33	53.33	100	0			47.55	3.19	32.97	41.94	74.00	-32.06	**Ch. 120/**
7466.66	52.17	100	315			45.68	4.60	35.69	46.78	74.00	-27.22	**B**
7466.66		100	315	39.05	A	45.68	4.60	35.69	33.66	54.00	-20.34	
3666.66	53.17	100	0			47.58	3.17	32.87	41.63	74.00	-32.37	**Ch. 100/**
7333.33	51.17	100	0			45.81	4.55	35.67	45.57	74.00	-28.43	**B**
7333.33		100	0	38.70	A	45.81	4.55	35.67	33.10	54.00	-20.90	
3800.00	53.67	100	0			47.54	3.24	33.08	42.45	74.00	-31.55	**Ch. 140/B**

RADIATED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	**DATE:**	08/17/09
EUT:	Intel® Centrino® Ultimate-N 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A3C7C	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in **802.11n (5740-5745 MHz) mode 20MHz Wide.**	**TEMPERATURE:**	24° C
		HUMIDITY:	46% RH
		TIME:	9:30 AM

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. • 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

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:

CML = Specification Limit - F - C + D

Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11n mode 20MHz Wide (5470-5725 MHz)***
Channels 100, 120, & 140
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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*
5500.00	62.43	100	45			3.89	34.60	100.92			**Ch. 100**
5500.00				53.95	A	3.89	34.60	92.44			
5600.00	63.28	100	45			3.93	34.72	101.93			**Ch. 120**
5600.00				54.84	A	3.93	34.72	93.49			
5700.00	62.50	100	45			3.97	34.84	101.31			**Ch. 140**
5700.00				53.91	A	3.97	34.84	92.72			

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*
5500.00	67.40	100	270			3.89	34.80	106.09			**Ch. 100**
5500.00				57.19	A	3.89	34.80	95.88			
5600.00	66.22	100	315			3.93	34.90	105.05			**Ch. 120**
5600.00				56.96	A	3.93	34.90	95.79			
5700.00	65.73	100	315			3.97	35.00	104.70			**Ch. 140**
5700.00				56.37	A	3.97	35.00	95.34			

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 **802.11n mode 20MHz Wide (5470-5725 MHz)***
Channels 100 & 140
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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*
5460.00								52.25	74.00	-21.75	**Ch. 100**
5460.00								44.59	74.00	-29.41	
5460.00					A			35.28	54.00	-18.72	
5460.00					A			36.11	54.00	-17.89	
5725.00	29.82	100	45			3.98	34.87	68.67	81.31	-12.64	**Ch. 140**

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*
5460.00								57.42	74.00	-16.58	**Ch. 100**
5460.00								49.76	74.00	-24.24	
5460.00					A			38.72	54.00	-15.28	
5460.00					A			39.55	54.00	-14.45	
5725.00	30.27	100	315			3.98	35.03	69.27	84.70	-15.43	**Ch. 140**

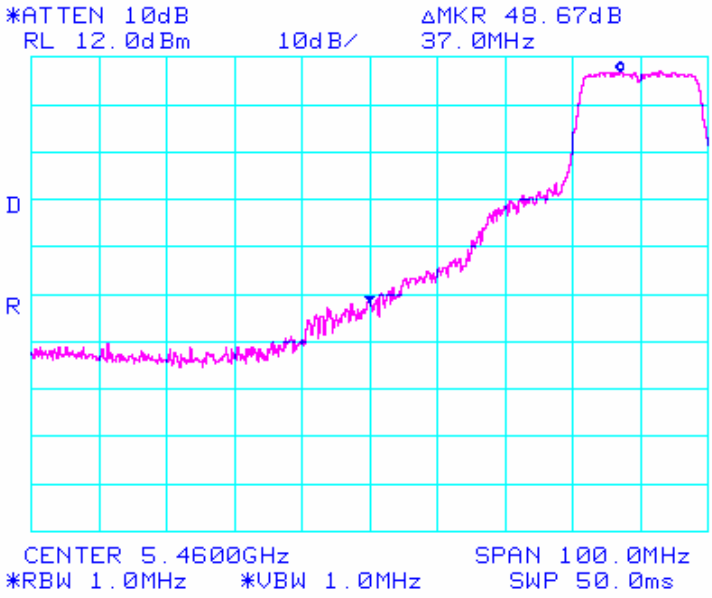
NOTE: The "Band Edge Field Strength" was calculated using the "Fundamental" and "Conducted Band Edge" measurements per the "Marker-Delta Method" with the following formula:

BE = Fm – Δm

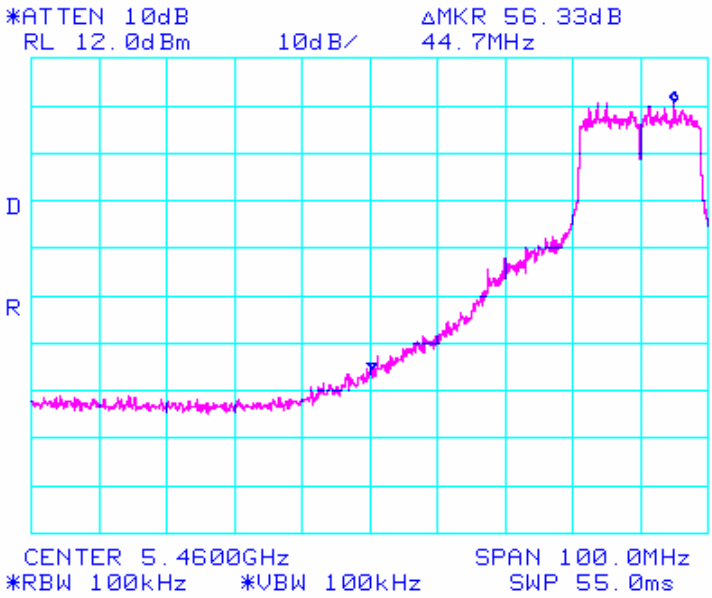
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-06g	Cond BE, Ch. 100, PK (1MHz/1MHz)	JC

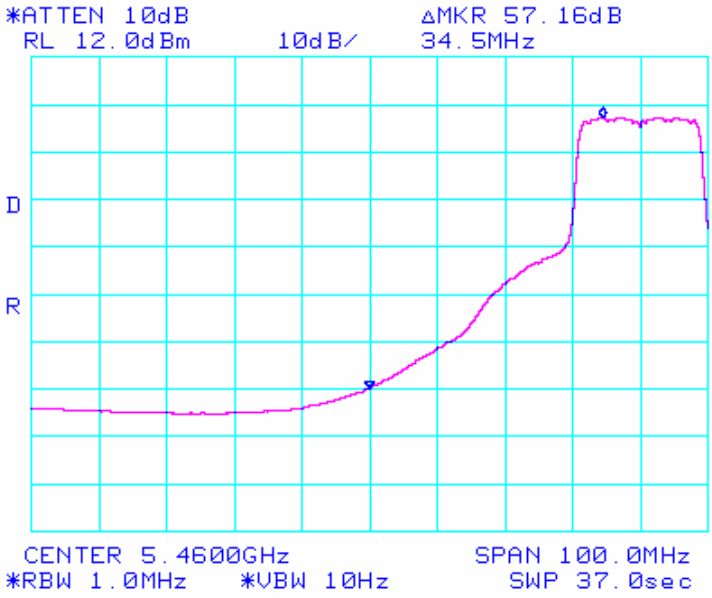


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-06h	Cond BE, Ch. 100, PK (100kHz/100kHz)	JC



Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-06i	Cond BE, Ch. 100, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11n mode 20MHz Wide (5470-5725 MHz)***
Channels 100, 120, & 140
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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*
5500.00	65.50	100	315			3.89	34.60	103.99			**Ch. 100**
5500.00				55.50	A	3.89	34.60	93.99			
5600.00	66.00	100	315			3.93	34.72	104.65			**Ch. 120**
5600.00				56.17	A	3.93	34.72	94.82			
5700.00	65.17	100	315			3.97	34.84	103.98			**Ch. 140**
5700.00				55.33	A	3.97	34.84	94.14			

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*
5500.00	67.50	100	0			3.89	34.80	106.19			**Ch. 100**
5500.00				57.67	A	3.89	34.80	96.36			
5600.00	66.33	100	315			3.93	34.90	105.16			**Ch. 120**
5600.00				57.17	A	3.93	34.90	96.00			
5700.00	65.83	100	315			3.97	35.00	104.80			**Ch. 140**
5700.00				56.67	A	3.97	35.00	95.64			

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 **802.11n mode 20MHz Wide (5470-5725 MHz)***
Channels 100 & 140
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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*
5460.00								57.99	74.00	-16.01	**Ch. 100**
5460.00								50.32	74.00	-23.68	
5460.00					A			39.83	54.00	-14.17	
5460.00					A			40.32	54.00	-13.68	
5725.00	31.33	100	90			3.98	34.87	70.18	83.98	-13.80	**Ch. 140**

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*
5460.00								60.19	74.00	-13.81	**Ch. 100**
5460.00								52.52	74.00	-21.48	
5460.00					A			42.20	54.00	-11.80	
5460.00					A			42.69	54.00	-11.31	
5725.00	32.17	100	315			3.98	35.03	71.17	84.80	-13.63	**Ch. 140**

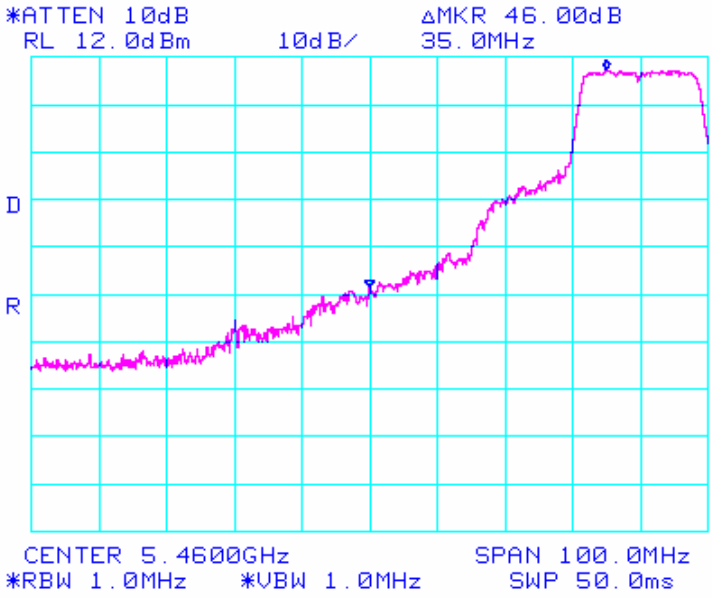
NOTE: The "Band Edge Field Strength" was calculated using the "Fundamental" and "Conducted Band Edge" measurements per the "Marker-Delta Method" with the following formula:

BE = Fm – Δm

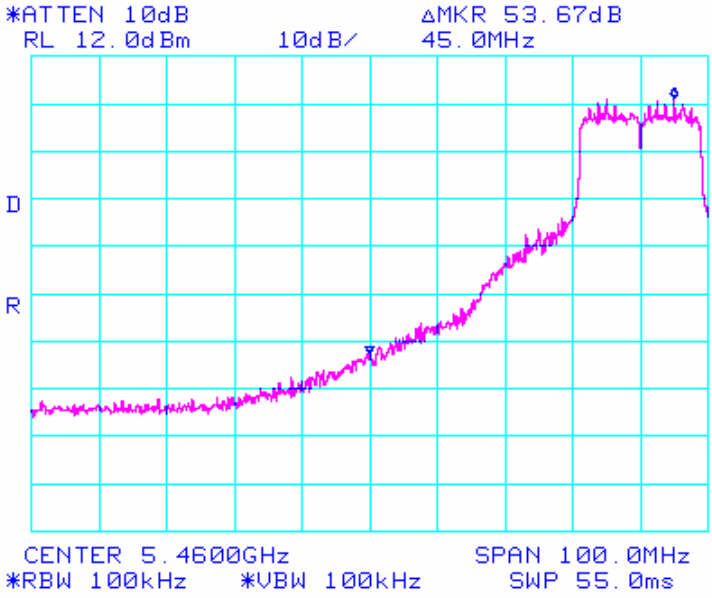
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-13g	Cond BE, Ch. 100, PK (1MHz/1MHz)	JC

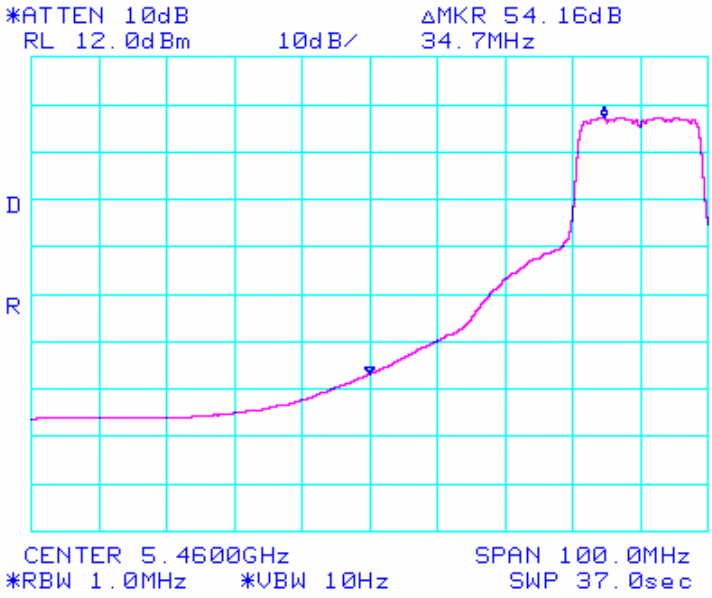


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-13h	Cond BE, Ch. 100, PK (100kHz/100kHz)	JC



Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-13i	Cond BE, Ch. 100, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in **802.11n mode 20MHz Wide (5470-5725 MHz)***
Channels 100, 120, & 140
Continuous TX** at **Chain A & B** Antenna ports with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-07

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	Channel/ Chain Tested
3733.33	53.50	100	315			47.55	3.19	33.08	42.22	74.00	-31.78	**Ch. 120/**
3733.33		100	315	42.73	A	47.55	3.19	33.08	31.45	54.00	-22.55	**A**
7466.66	54.17	100	0			45.68	4.60	35.71	48.79	74.00	-25.21	
7466.66		100	0	46.73	A	45.68	4.60	35.71	41.35	54.00	-12.65	
3733.33	53.67	100	315			47.55	3.19	33.08	42.39	74.00	-31.61	**Ch. 120/**
3733.33		100	315	43.30	A	47.55	3.19	33.08	32.02	54.00	-21.98	**B**
7466.66	54.00	100	0			45.68	4.60	35.71	48.62	74.00	-25.38	
7466.66		100	0	45.79	A	45.68	4.60	35.71	40.41	54.00	-13.59	
3666.66	54.00	100	315			47.58	3.17	33.00	42.59	74.00	-31.41	**Ch. 100/**
3666.66		100	315	42.50	A	47.58	3.17	33.00	31.09	54.00	-22.91	**A**
7333.32	52.17	100	0			45.81	4.55	35.73	46.64	74.00	-27.36	
7333.32		100	0	41.08	A	45.81	4.55	35.73	35.55	54.00	-18.45	
3800.00	53.50	100	0			47.54	3.24	33.16	42.36	74.00	-31.64	**Ch. 140/**
3800.00		100	0	41.08	A	47.54	3.24	33.16	29.94	54.00	-24.06	**A**
7600.00	53.67	100	0			45.60	4.64	35.76	48.46	74.00	-25.54	
7600.00		100	0	45.68	A	45.60	4.64	35.76	40.47	54.00	-13.53	

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
3733.33	53.50	100	315			47.55	3.19	32.97	42.11	74.00	-31.89	**Ch. 120/**
3733.33		100	315	42.65	A	47.55	3.19	32.97	31.26	54.00	-22.74	**A**
7466.66	55.17	100	0			45.68	4.60	35.69	49.78	74.00	-24.22	
7466.66		100	0	46.20	A	45.68	4.60	35.69	40.81	54.00	-13.19	
3733.33	53.83	100	315			47.55	3.19	32.97	42.44	74.00	-31.56	**Ch. 120/**
3733.33		100	315	43.51	A	47.55	3.19	32.97	32.12	54.00	-21.88	**B**
7466.66	55.00	100	0			45.68	4.60	35.69	49.61	74.00	-24.39	
7466.66		100	0	46.73	A	45.68	4.60	35.69	41.34	54.00	-12.66	
3666.66	53.50	100	315			47.58	3.17	32.87	41.96	74.00	-32.04	**Ch. 100/**
3666.66		100	315	43.23	A	47.58	3.17	32.87	31.69	54.00	-22.31	**B**
7333.32	51.83	100	0			45.81	4.55	35.67	46.23	74.00	-27.77	
7333.32		100	0	41.35	A	45.81	4.55	35.67	35.75	54.00	-18.25	
3800.00	53.83	100	45			47.54	3.24	33.08	42.61	74.00	-31.39	**Ch. 140/**
3800.00		100	45	43.16	A	47.54	3.24	33.08	31.94	54.00	-22.06	**B**
7600.00	54.67	100	0			45.60	4.64	35.74	49.44	74.00	-24.56	
7600.00		100	0	46.40	A	45.60	4.64	35.74	41.17	54.00	-12.83	

Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in ***802.11n mode 20MHz Wide (5470-5725 MHz)***
Channels 100, 120, & 140
Continuous TX *at* ***Dual Chain AB*** *Antenna ports with* ***Shanghai Universe Antennas***
Aegis Labs, Inc. File #: INTEL-090601-07

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	Channel/ Chain Tested
3666.66	54.83	100	225			50.75	3.17	33.00	40.25	74.00	-33.75	**Ch. 100/**
3666.66				42.24	A	50.75	3.17	33.00	27.66	54.00	-26.34	**AB**
7333.33	53.00	100	225			50.26	4.55	35.90	43.19	74.00	-30.81	
7333.33				42.19	A	50.26	4.55	35.90	32.38	54.00	-21.62	
3733.33	51.00	100	135			50.76	3.19	33.08	36.51	74.00	-37.49	**Ch. 120/**
3733.33				40.95	A	50.76	3.19	33.08	26.46	54.00	-27.54	**AB**
7466.66	52.17	100	225			50.20	4.60	35.98	42.55	74.00	-31.45	
7466.66				43.30	A	50.20	4.60	35.98	33.68	54.00	-20.32	
11199.99	52.50	100	270			50.48	5.75	38.22	45.99	74.00	-28.01	
11199.99				40.00	A	50.48	5.75	38.22	33.49	54.00	-20.51	
3800.00	54.00	100	225			50.68	3.24	33.16	39.72	74.00	-34.28	**Ch. 140/**
3800.00				43.55	A	50.68	3.24	33.16	29.27	54.00	-24.73	**AB**
7600.00	52.00	100	225			50.16	4.64	36.02	42.49	74.00	-31.51	
7600.00				40.89	A	50.16	4.64	36.02	31.38	54.00	-22.62	

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
3666.66	57.33	100	180			50.75	3.17	33.07	42.82	74.00	-31.18	**Ch. 100/**
3666.66				48.75	A	50.75	3.17	33.07	34.24	54.00	-19.76	**AB**
7333.33	51.50	100	225			50.26	4.55	35.93	41.72	74.00	-32.28	
7333.33				42.78	A	50.26	4.55	35.93	33.00	54.00	-21.00	
3733.33	52.17	100	90			50.76	3.19	33.13	37.74	74.00	-36.26	**Ch. 120/**
3733.33				43.26	A	50.76	3.19	33.13	28.83	54.00	-25.17	**AB**
7466.66	53.67	100	135			50.20	4.60	36.07	44.14	74.00	-29.86	
7466.66				46.61	A	50.20	4.60	36.07	37.08	54.00	-16.92	
11200.00	53.33	100	225			50.48	5.75	38.10	46.70	74.00	-27.30	
11200.00				41.99	A	50.48	5.75	38.10	35.36	54.00	-18.64	
3800.00	54.50	100	180			50.68	3.24	33.20	40.26	74.00	-33.74	**Ch. 140/**
3800.00				46.59	A	50.68	3.24	33.20	32.35	54.00	-21.65	**AB**
7600.00	55.00	100	180			50.16	4.64	36.12	45.59	74.00	-28.41	
7600.00				48.17	A	50.16	4.64	36.12	38.76	54.00	-15.24	
11400.00	50.83	100	135	53.67		50.51	5.86	38.30	47.31	74.00	-26.69	
11400.00				40.10	A	50.51	5.86	38.30	33.74	54.00	-20.26	

RADIATED EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	**DATE:**	08/17/09
EUT:	Intel® Centrino® Ultimate-N 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A3C7C	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in **802.11n (5740-5745 MHz) mode 40MHz Wide.**	**TEMPERATURE:**	24° C
		HUMIDITY:	46% RH
		TIME:	9:30 AM

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. • 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

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:

CML = Specification Limit - F - C + D

Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11n mode 40MHz Wide (5470-5725 MHz)***
Channels 102, 118, & 134
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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*
5510.00	62.72	100	45			3.89	34.61	101.23			**Ch. 102**
5510.00				53.93	A	3.89	34.61	92.44			
5590.00	61.69	100	45			3.92	34.71	100.32			**Ch. 118**
5590.00				52.57	A	3.92	34.71	91.20			
5670.00	61.15	100	45			3.95	34.80	99.91			**Ch. 134**
5670.00				52.10	A	3.95	34.80	90.86			

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*
5510.00	62.13	100	315			3.89	34.81	100.83			**Ch. 102**
5510.00				52.12	A	3.89	34.81	90.82			
5590.00	62.48	100	315			3.92	34.89	101.29			**Ch. 118**
5590.00				52.39	A	3.92	34.89	91.20			
5670.00	60.54	100	315			3.95	34.97	99.46			**Ch. 134**
5670.00				50.69	A	3.95	34.97	89.61			

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 **802.11n mode 40MHz Wide (5470-5725 MHz)***
Channels 102 & 134
Continuous TX** at **Chain A** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-02

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*
5460.00								61.73	74.00	-12.27	**Ch. 102**
5460.00								57.73	74.00	-16.27	
5460.00					A			48.60	54.00	-5.40	
5460.00					A			48.94	54.00	-5.06	
5725.00	31.49	100	45			3.98	34.87	70.34	79.91	-9.57	**Ch. 134**

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*
5460.00								61.33	74.00	-12.67	**Ch. 102**
5460.00								57.33	74.00	-16.67	
5460.00					A			46.98	54.00	-7.02	
5460.00					A			47.32	54.00	-6.68	
5725.00	30.89	100	315			3.98	35.03	69.89	79.46	-9.57	**Ch. 134**

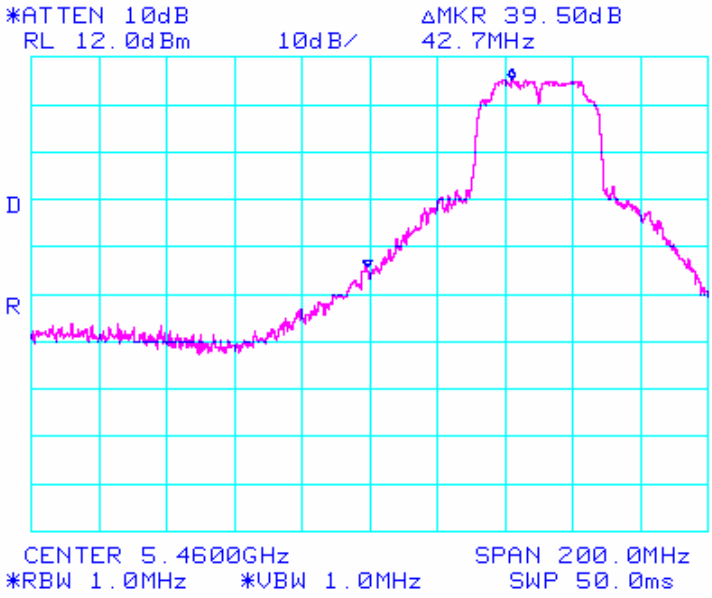
NOTE: The "Band Edge Field Strength" was calculated using the "Fundamental" and "Conducted Band Edge" measurements per the "Marker-Delta Method" with the following formula:

$BE = Fm - \Delta m$

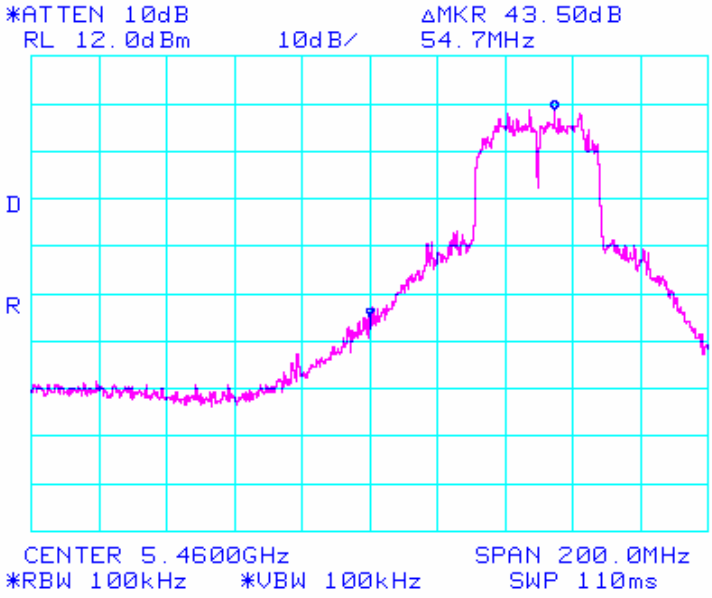
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-07g	Cond BE, Ch. 102, PK (1MHz/1MHz)	JC

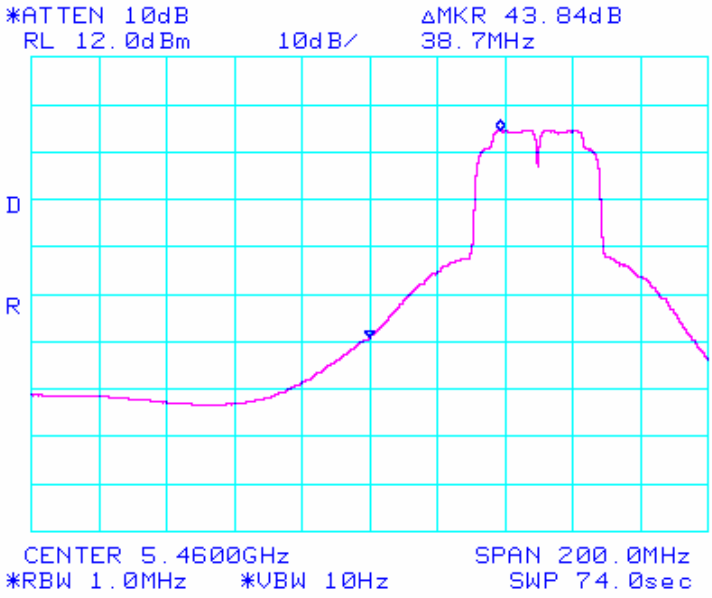


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-07h	Cond BE, Ch. 102, PK (100kHz/100kHz)	JC



Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090601-07i	Cond BE, Ch. 102, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in **802.11n mode 40MHz Wide (5470-5725 MHz)***
Channels 102, 118, & 134
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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*
5510.00	61.83	100	315			3.89	34.61	100.34			**Ch. 102**
5510.00				52.33	A	3.89	34.61	90.84			
5590.00	63.00	100	0			3.92	34.71	101.63			**Ch. 118**
5590.00				53.50	A	3.92	34.71	92.13			
5670.00	61.67	100	315			3.95	34.80	100.43			**Ch. 134**
5670.00				52.33	A	3.95	34.80	91.09			

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*
5510.00	62.00	100	90			3.89	34.81	100.70			**Ch. 102**
5510.00				51.67	A	3.89	34.81	90.37			
5590.00	62.17	100	90			3.92	34.89	100.98			**Ch. 118**
5590.00				52.00	A	3.92	34.89	90.81			
5670.00	58.33	100	315			3.95	34.97	97.25			**Ch. 134**
5670.00				48.67	A	3.95	34.97	87.59			

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 **802.11n mode 40MHz Wide (5470-5725 MHz)***
Channels 102 & 134
Continuous TX** at **Chain B** Antenna port with **Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090601-04

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*
5460.00								60.84	74.00	-13.16	**Ch. 102**
5460.00								55.67	74.00	-18.33	
5460.00					A			48.01	54.00	-5.99	
5460.00					A			46.17	54.00	-7.83	
5725.00	31.33	100	315			3.98	34.87	70.18	80.43	-10.25	**Ch. 134**

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*
5460.00								61.20	74.00	-12.80	**Ch. 102**
5460.00								56.03	74.00	-17.97	
5460.00					A			47.54	54.00	-6.46	
5460.00					A			45.70	54.00	-8.30	
5725.00	30.33	100	315			3.98	35.03	69.33	77.25	-7.92	**Ch. 134**

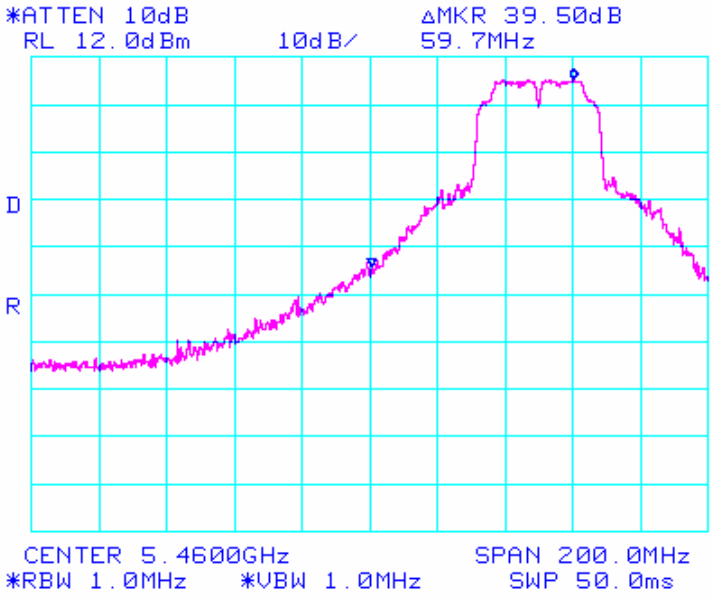
NOTE: The "Band Edge Field Strength" was calculated using the "Fundamental" and "Conducted Band Edge" measurements per the "Marker-Delta Method" with the following formula:

$BE = Fm - \Delta m$

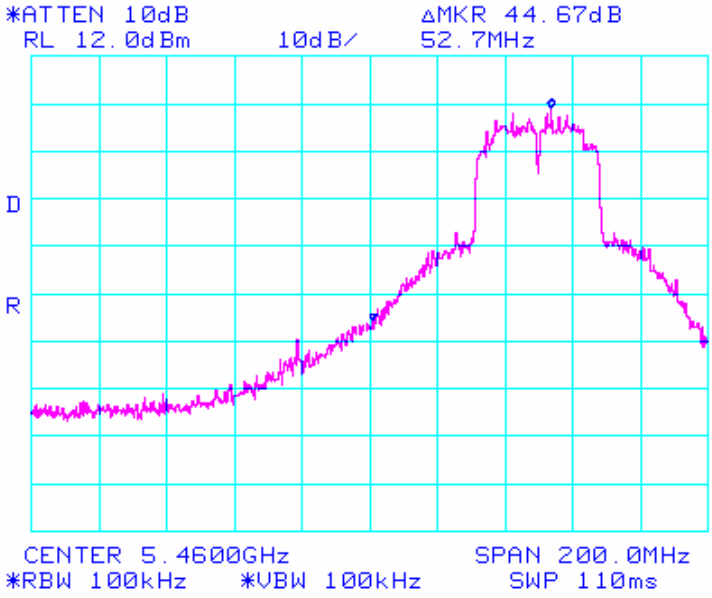
Where
BE = Band Edge Field Strength
Fm = Measured Fundamental (Peak or Average)
Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-14g	Cond BE, Ch. 102, PK (1MHz/1MHz)	JC

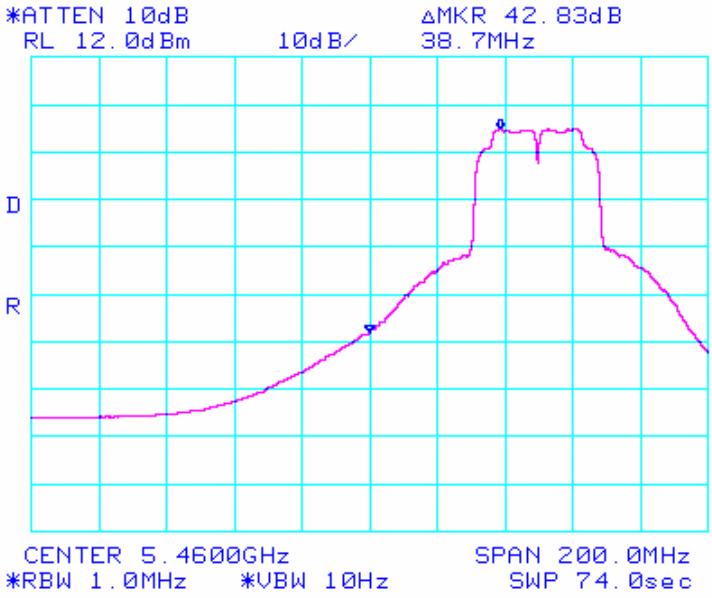


Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-14h	Cond BE, Ch. 102, PK (100kHz/100kHz)	JC



Band-Edge Plots (Continued)

Plot File Name	*Description (RBW/VBW)*	*Test Eng.*
INTEL-090526-14i	Cond BE, Ch. 102, AV (1MHz/10Hz)	JC



Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in ***802.11n mode 40MHz Wide (5470-5725 MHz)***
Channels 102, 118, & 134
Continuous TX *at* ***Chain A & B*** *Antenna ports with* ***Shanghai Universe Antennas***
Aegis Labs, Inc. File #: INTEL-090601-07

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	Channel/ Chain Tested
3733.33	52.83	100	225			46.55	2.53	32.91	41.72	74.00	-32.28	**Ch. 118/**
3733.33				42.17	A	46.55	2.53	32.91	31.06	54.00	-22.94	**A**
7466.66	52.83	100	225			44.88	3.63	37.21	48.80	74.00	-25.20	
7466.66				42.82	A	44.88	3.63	37.21	38.79	54.00	-15.21	
3733.33	54.83	100	180			46.55	2.53	32.91	43.72	74.00	-30.28	**Ch. 118/**
3733.33				46.87	A	46.55	2.53	32.91	35.76	54.00	-18.24	**B**
7466.66	54.67	100	225			44.88	3.63	37.21	50.64	74.00	-23.36	
7466.66				42.46	A	44.88	3.63	37.21	38.43	54.00	-15.57	
3666.66	54.83	100	225			46.56	2.50	32.77	43.53	74.00	-30.47	**Ch. 102/**
3666.66				42.24	A	46.56	2.50	32.77	30.94	54.00	-23.06	**A**
7333.33	53.00	100	225			44.92	3.60	36.87	48.54	74.00	-25.46	
7333.33				42.19	A	44.92	3.60	36.87	37.73	54.00	-16.27	
3800.00	54.00	100	225			46.54	2.55	33.06	43.08	74.00	-30.92	**Ch. 134/**
3800.00				43.55	A	46.54	2.55	33.06	32.63	54.00	-21.37	**A**
7600.00	52.00	100	225			44.86	3.67	37.36	48.17	74.00	-25.83	
7600.00				40.89	A	44.86	3.67	37.36	37.06	54.00	-16.94	

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
3733.33	53.83	100	270			46.55	2.53	32.51	42.31	74.00	-31.69	**Ch. 118/**
3733.33				42.63	A	46.55	2.53	32.51	31.11	54.00	-22.89	**A**
7466.66	52.50	100	225			44.88	3.63	37.11	48.37	74.00	-25.63	
7466.66				41.32	A	44.88	3.63	37.11	37.19	54.00	-16.81	
3733.33	56.33	100	225			46.55	2.53	32.51	44.81	74.00	-29.19	**Ch. 118/**
3733.33				49.15	A	46.55	2.53	32.51	37.63	54.00	-16.37	**B**
7466.66	55.00	100	180			44.88	3.63	37.11	50.87	74.00	-23.13	
7466.66				48.44	A	44.88	3.63	37.11	44.31	54.00	-9.69	
11200.00	49.17	100	135			45.09	4.55	38.96	47.60	74.00	-26.40	
11200.00				39.08	A	45.09	4.55	38.96	37.51	54.00	-16.49	
3666.66	57.33	100	180			46.56	2.50	32.33	45.60	74.00	-28.40	**Ch. 102/**
3666.66				48.75	A	46.56	2.50	32.33	37.02	54.00	-16.98	**B**
7333.33	51.50	100	225			44.92	3.60	36.77	46.94	74.00	-27.06	
7333.33				42.78	A	44.92	3.60	36.77	38.22	54.00	-15.78	
3800.00	54.50	100	180			46.54	2.55	32.68	43.20	74.00	-30.80	**Ch. 134/**
3800.00				46.59	A	46.54	2.55	32.68	35.29	54.00	-18.71	**B**
7600.00	55.00	100	180			44.86	3.67	37.24	51.05	74.00	-22.95	
7600.00				48.17	A	44.86	3.67	37.24	44.22	54.00	-9.78	
11400.00	50.83	100	135	53.67		45.04	4.61	39.12	52.36	74.00	-21.64	
11400.00				40.10	A	45.04	4.61	39.12	38.79	54.00	-15.21	

Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in ***802.11n mode 40MHz Wide (5470-5725 MHz)***
Channels 102, 118, & 134
Continuous TX *at* ***Dual Chain AB*** *Antenna ports with* ***Shanghai Universe Antennas***
Aegis Labs, Inc. File #: INTEL-090601-07

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*	*Channel/ Chain Tested*
3673.33	52.67	100	45			47.58	3.17	33.01	41.27	68.00	-26.73	**Ch. 102/**
3673.33		100	45	40.62		47.58	3.17	33.01	29.22	74.00	-44.78	**AB**
7346.66	52.50	100	315			45.80	4.55	35.73	46.99	74.00	-27.01	
7346.66		100	315	42.26	A	45.80	4.55	35.73	36.75	54.00	-17.25	
3726.66	52.83	100	45			47.55	3.19	33.07	41.54	74.00	-32.46	**Ch. 118/**
3726.66		100	45	41.44	A	47.55	3.19	33.07	30.15	54.00	-23.85	**AB**
7453.33	53.53	100	315			45.70	4.59	35.71	48.14	74.00	-25.86	
7453.33		100	315	44.60	A	45.70	4.59	35.71	39.21	54.00	-14.79	
3780.00	51.67	100	0			47.54	3.23	33.14	40.49	74.00	-33.51	**Ch. 134/**
3780.00		100	0	40.71	A	47.54	3.23	33.14	29.53	54.00	-24.47	**AB**
7560.00	52.33	100	0			45.62	4.63	35.74	47.07	74.00	-26.93	
7560.00		100	0	41.35	A	45.62	4.63	35.74	36.09	54.00	-17.91	

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*
3673.33	52.67	100	315			47.58	3.17	32.88	41.14	74.00	-32.86	**Ch. 102/**
3673.33		100	315	40.71	A	47.58	3.17	32.88	29.18	54.00	-24.82	**AB**
7346.66	56.83	100	90			45.80	4.55	35.67	51.25	74.00	-22.75	
7346.66		100	90	51.26	A	45.80	4.55	35.67	45.68	54.00	-8.32	
3726.66	55.33	100	315			47.55	3.19	32.96	43.93	74.00	-30.07	**Ch. 118/**
3726.66		100	315	43.51	A	47.55	3.19	32.96	32.11	54.00	-21.89	**AB**
7453.33	56.00	100	90			45.70	4.59	35.69	50.59	74.00	-23.41	
7453.33		100	90	48.46	A	45.70	4.59	35.69	43.05	54.00	-10.95	
3780.00	52.33	100	0			47.54	3.23	33.05	41.06	74.00	-32.94	**Ch. 134/**
3780.00		100	0	40.99	A	47.54	3.23	33.05	29.72	54.00	-24.28	**AB**
7560.00	56.50	100	0			45.62	4.63	35.72	51.23	74.00	-22.77	
7560.00		100	0	51.08	A	45.62	4.63	35.72	45.81	54.00	-8.19	
11340.00	51.83	100	0			45.30	5.83	38.24	50.60	74.00	-23.40	
11340.00		100	0	39.50	A	45.30	5.83	38.24	38.27	54.00	-15.73	

MAXIMUM CONDUCTED OUTPUT POWER

CLIENT:	Intel Corporation	**DATE:**	07/30/09
EUT:	Intel® Centrino® Ultimate-N 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A3C7C	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	**TEMPERATURE:**	22 deg. C
		HUMIDITY:	54% RH
		TIME:	8:00 AM

Description:	For the band 5.15-5.25 GHz, the Maximum Conducted Output 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 Maximum Conducted Output 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:	Passed (See Data Sheet)
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

Maximum Conducted Output Power (Continued)

Mode	Channel	Frequency (MHz)	Chain	Data Rate (Mbps)	Average Power* (dBm)	Average Power* (mW)	Output Power** (dBm)	Output Power** (mW)
802.11a	36	5180	A	6	16.52	**44.91**	16.64	**46.17**
802.11a	40	5200	A	6	16.69	**46.71**	16.84	**48.35**
802.11a	48	5240	A	6	16.29	**42.60**	16.44	**44.09**
802.11a	52	5260	A	6	16.52	**44.91**	16.64	**46.17**
802.11a	56	5280	A	6	16.52	**44.91**	16.64	**46.17**
802.11a	64	5320	A	6	16.53	**45.02**	16.74	**47.25**
802.11a	36	5180	B	6	16.36	**43.29**	16.64	**46.17**
802.11a	40	5200	B	6	16.53	**45.02**	16.74	**47.25**
802.11a	48	5240	B	6	16.63	**46.06**	16.84	**48.35**
802.11a	52	5260	B	6	16.44	**44.09**	16.64	**46.17**
802.11a	56	5280	B	6	16.34	**43.09**	16.54	**45.12**
802.11a	64	5320	B	6	16.32	**42.89**	16.54	**45.12**
802.11n	36	5180	A	HT0	16.51	**44.81**	16.74	**47.25**
802.11n	40	5200	A	HT0	16.55	**45.22**	16.74	**47.25**
802.11n	48	5240	A	HT0	16.58	**45.54**	16.84	**48.35**
802.11n	52	5260	A	HT0	16.59	**45.64**	16.84	**48.35**
802.11n	56	5280	A	HT0	16.37	**43.39**	16.54	**45.12**
802.11n	64	5320	A	HT0	16.43	**43.99**	16.64	**46.17**
802.11n	36	5180	B	HT0	16.45	**44.19**	16.64	**46.17**
802.11n	40	5200	B	HT0	16.39	**43.59**	16.54	**45.12**
802.11n	48	5240	B	HT0	16.53	**45.02**	16.84	**48.35**
802.11n	52	5260	B	HT0	16.39	**43.59**	16.54	**45.12**
802.11n	56	5280	B	HT0	16.59	**45.64**	16.84	**48.35**
802.11n	64	5320	B	HT0	16.56	**45.33**	16.84	**48.35**
802.11a	100	5500	A	6	16.35	**43.19**	16.54	**45.12**
802.11a	120	5600	A	6	16.69	**46.71**	16.84	**48.35**
802.11a	140	5700	A	6	16.43	**43.99**	16.64	**46.17**
802.11a	100	5500	B	6	16.55	**45.22**	16.74	**47.25**
802.11a	120	5600	B	6	16.56	**45.33**	16.74	**47.25**
802.11a	140	5700	B	6	16.63	**46.06**	16.84	**48.35**
802.11n	100	5500	A	HT0	16.63	**46.06**	16.84	**48.35**
802.11n	120	5600	A	HT0	16.35	**43.19**	16.54	**45.12**
802.11n	140	5700	A	HT0	16.63	**46.06**	16.74	**47.25**
802.11n	100	5500	B	HT0	16.63	**46.06**	16.94	**49.47**
802.11n	120	5600	B	HT0	16.52	**44.91**	16.74	**47.25**
802.11n	140	5700	B	HT0	16.51	**44.81**	16.74	**47.25**

*NOTE: The Average power is measured conducted, using power meter with average power sensor.
**NOTE: The output power is measured conducted, using spectrum analyzer.

Maximum Conducted Output Power (Continued)

Mode	Channel	Frequency (MHz)	Chain	Data Rate (Mbps)	Average Power* (dBm)	Average Power* (mW)	Output Power** (dBm)	Output Power** (mW)
802.11n (40MHz)	38(F)	5190	A	HT0	16.66	**46.32**	16.89	**48.84**
802.11n (40MHz)	46(F)	5230	A	HT0	16.40	**43.63**	16.69	**46.64**
802.11n (40MHz)	54(F)	5270	A	HT0	16.42	**43.83**	16.69	**46.64**
802.11n (40MHz)	62(F)	5310	A	HT0	16.55	**45.16**	16.79	**47.73**
802.11n (40MHz)	38(F)	5190	B	HT0	16.39	**43.53**	16.79	**47.73**
802.11n (40MHz)	46(F)	5230	B	HT0	16.51	**44.75**	16.89	**48.84**
802.11n (40MHz)	54(F)	5270	B	HT0	16.58	**45.48**	16.89	**48.84**
802.11n (40MHz)	62(F)	5310	B	HT0	16.64	**46.11**	16.89	**48.84**
802.11n (40MHz)	102(F)	5510	A	HT0	16.60	**45.69**	16.79	**47.73**
802.11n (40MHz)	118(F)	5590	A	HT0	16.50	**44.65**	16.69	**46.64**
802.11n (40MHz)	134(F)	5670	A	HT0	16.34	**43.03**	16.59	**45.58**
802.11n (40MHz)	102(F)	5510	B	HT0	16.63	**46.00**	16.89	**48.84**
802.11n (40MHz)	118(F)	5590	B	HT0	16.35	**43.13**	16.59	**45.58**
802.11n (40MHz)	134(F)	5670	B	HT0	16.44	**44.03**	16.69	**46.64**

Dual Chain AB Aggregate Power

Mode	Channel	Frequency (MHz)	Chain	Data Rate (Mbps)	Average Power* (dBm)	Average Power* (mW)	Output Power** (dBm)	Output Power** (mW)
802.11n (20MHz)	36	5180	ABC	HT16	16.57	**45.40**	16.66	**46.29**
802.11n (20MHz)	40	5200	ABC	HT16	16.72	**46.95**	16.86	**48.51**
802.11n (20MHz)	48	5240	ABC	HT16	16.92	**49.19**	17.06	**50.76**
802.11n (20MHz)	52	5260	ABC	HT16	16.77	**47.52**	16.85	**48.46**
802.11n (20MHz)	56	5280	ABC	HT16	16.77	**47.52**	16.85	**48.46**
802.11n (20MHz)	64	5320	ABC	HT16	16.66	**46.36**	16.81	**47.94**
802.11n (40MHz)	38(F)	5190	ABC	HT16	16.56	**45.33**	16.75	**47.30**
802.11n (40MHz)	46(F)	5230	ABC	HT16	16.61	**45.84**	16.75	**47.32**
802.11n (40MHz)	54(F)	5270	ABC	HT16	16.78	**47.64**	16.90	**48.97**
802.11n (40MHz)	62(F)	5310	ABC	HT16	16.85	**48.42**	16.90	**48.97**
802.11n (20MHz)	100	5500	ABC	HT16	16.74	**47.19**	16.85	**48.46**
802.11n (20MHz)	120	5600	ABC	HT16	16.58	**45.46**	16.71	**46.84**
802.11n (20MHz)	140	5700	ABC	HT16	16.67	**46.50**	16.81	**47.94**
802.11n (40MHz)	102(F)	5510	ABC	HT16	16.56	**45.32**	16.70	**46.75**
802.11n (40MHz)	118(F)	5590	ABC	HT16	16.59	**45.64**	16.75	**47.30**
802.11n (40MHz)	134(F)	5670	ABC	HT16	16.50	**44.70**	16.70	**46.75**

*NOTE: The Average power is measured conducted, using power meter with average power sensor.
**NOTE: The output power is measured conducted, using spectrum analyzer.

(F) = Fat Channel

CONDCUTED BAND EDGE EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	**DATE:**	07/22/09
EUT:	Intel® Centrino® Ultimate-N 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A3C7C	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	**TEMPERATURE:**	23 deg. C
		HUMIDITY:	51% RH
		TIME:	10:00 AM

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. • 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)

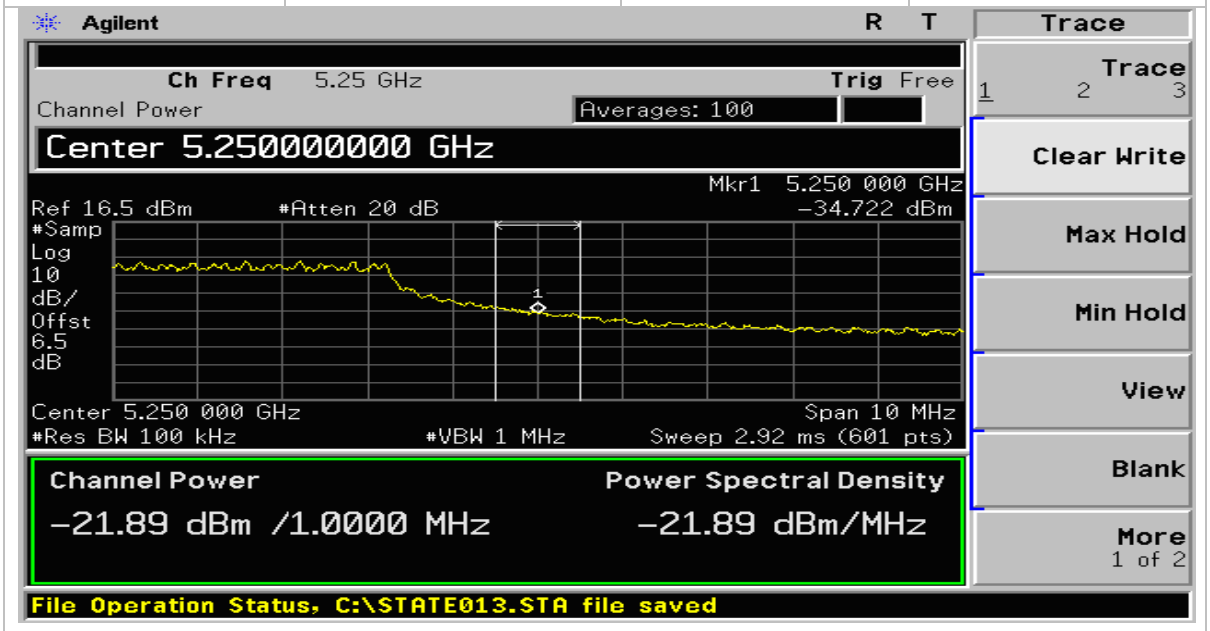
Conducted Band Edge Emissions Test Results (Continued)

CONDCUTED BAND EDGE EMISSIONS TEST RESULTS							
Freq.(MHz)	*TX Chain*	*Power Spec Den. Reading (dBm/MHz)*	*Antenna Gain (dBi)*	*Corrected Reading (dBm/MHz)*	*Limits (dBm/MHz)*	*Diff (dB) +=FAIL*	*Comments*
802.11a							
5250.00	A	-34.72	2.57	-32.15	-27.00	-5.15	Tx @ 5240 MHz
5250.00	A	-33.73	2.57	-31.16	-27.00	-4.16	Tx @ 5260 MHz
5250.00	B	-33.06	2.57	-30.49	-27.00	-3.49	Tx @ 5240 MHz
5250.00	B	-35.17	2.57	-32.60	-27.00	-5.60	Tx @ 5260 MHz
802.11n (20MHz Wide)							
5250.00	A	-32.51	2.57	-29.94	-27.00	-2.94	Tx @ 5240 MHz
5250.00	A	-33.67	2.57	-31.10	-27.00	-4.10	Tx @ 5260 MHz
5250.00	B	-33.73	2.57	-31.16	-27.00	-4.16	Tx @ 5240 MHz
5250.00	B	-33.25	2.57	-30.68	-27.00	-3.68	Tx @ 5260 MHz
802.11n (40MHz Wide)							
5250.00	A	-42.99	2.57	-40.42	-27.00	-13.42	Tx @ 5240 MHz
5250.00	A	-41.29	2.57	-38.72	-27.00	-11.72	Tx @ 5260 MHz
5250.00	B	-41.99	2.57	-39.42	-27.00	-12.42	Tx @ 5240 MHz
5250.00	B	-42.75	2.57	-40.18	-27.00	-13.18	Tx @ 5260 MHz

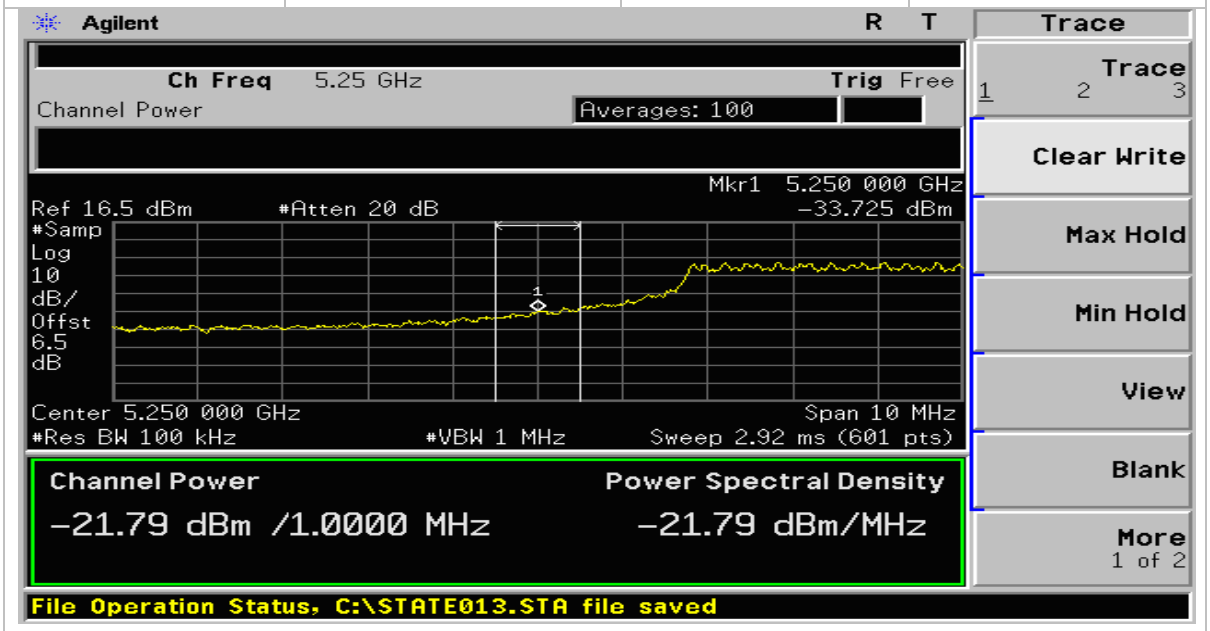
Conducted Band Edge Emissions Test Results (Continued)

802.11a Mode – Chain A

Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.24 GHz band edge	A	KN



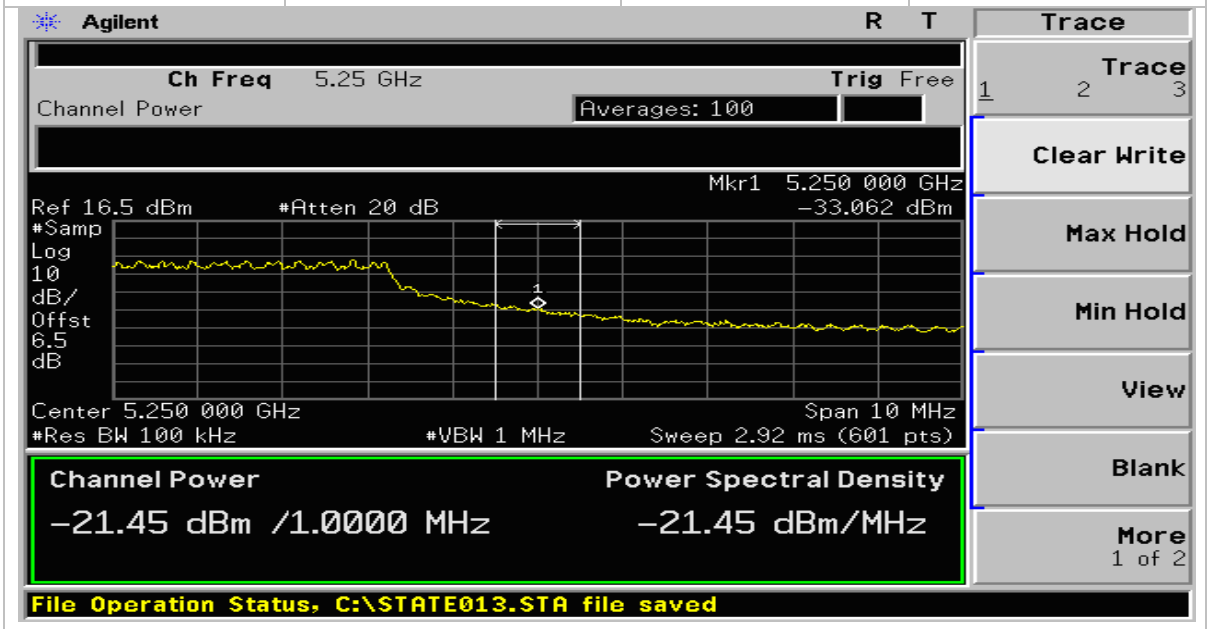
Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.26 GHz band edge	A	KN



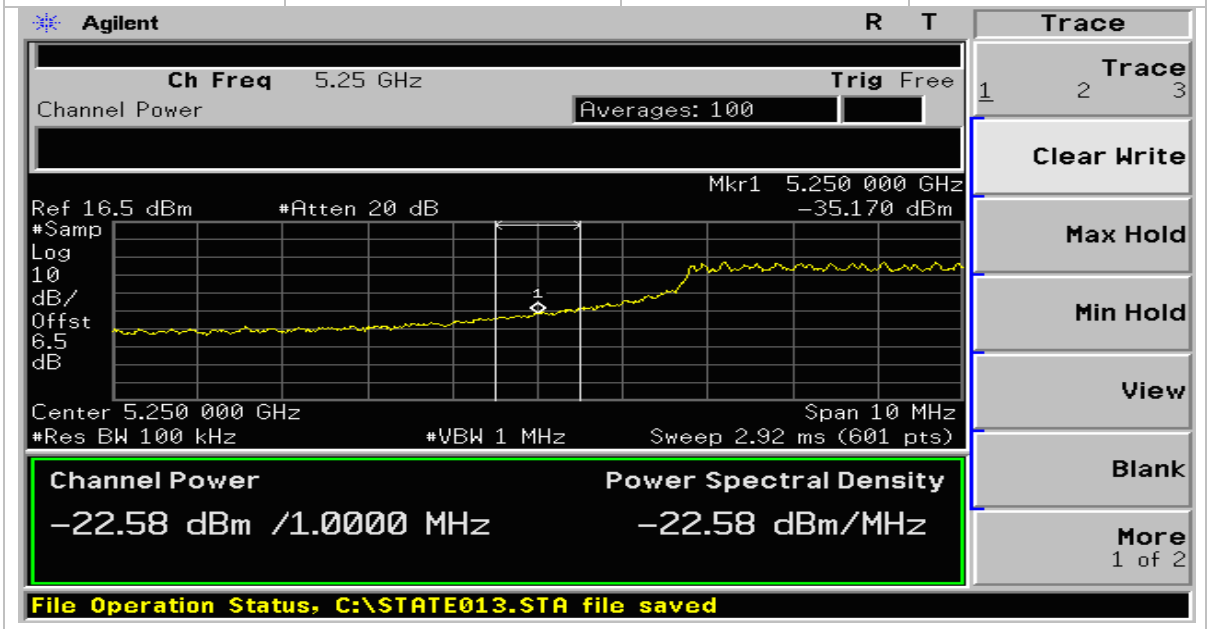
Conducted Band Edge Emissions Test Results (Continued)

802.11a Mode – Chain B

Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.24 GHz band edge	B	KN



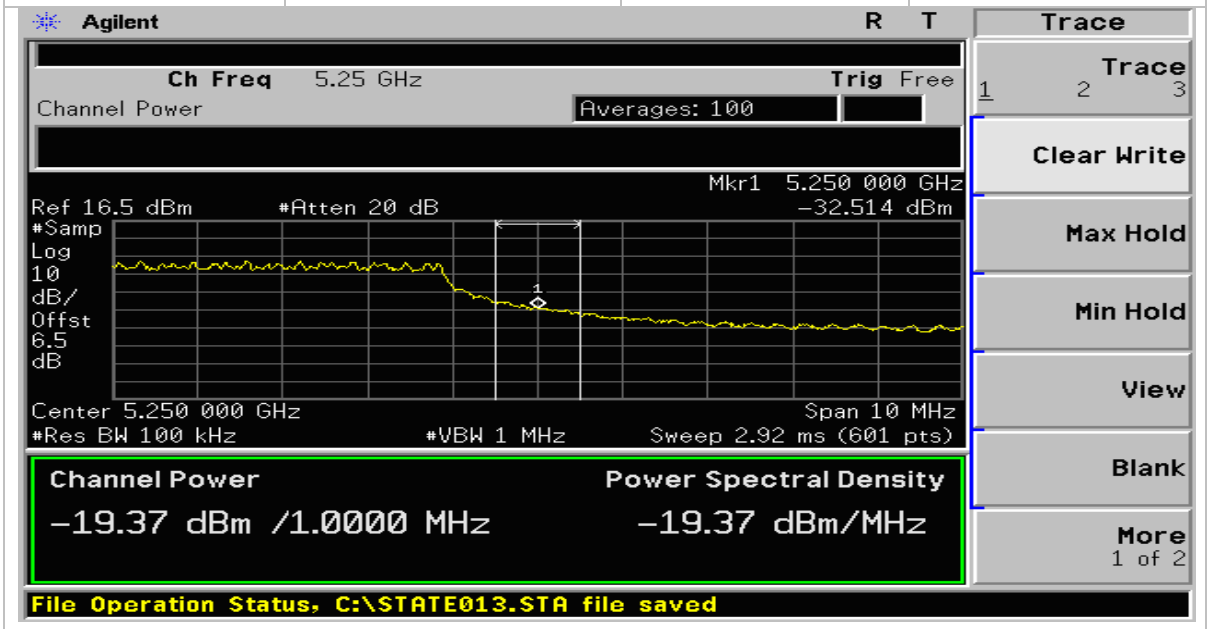
Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.26 GHz band edge	B	K



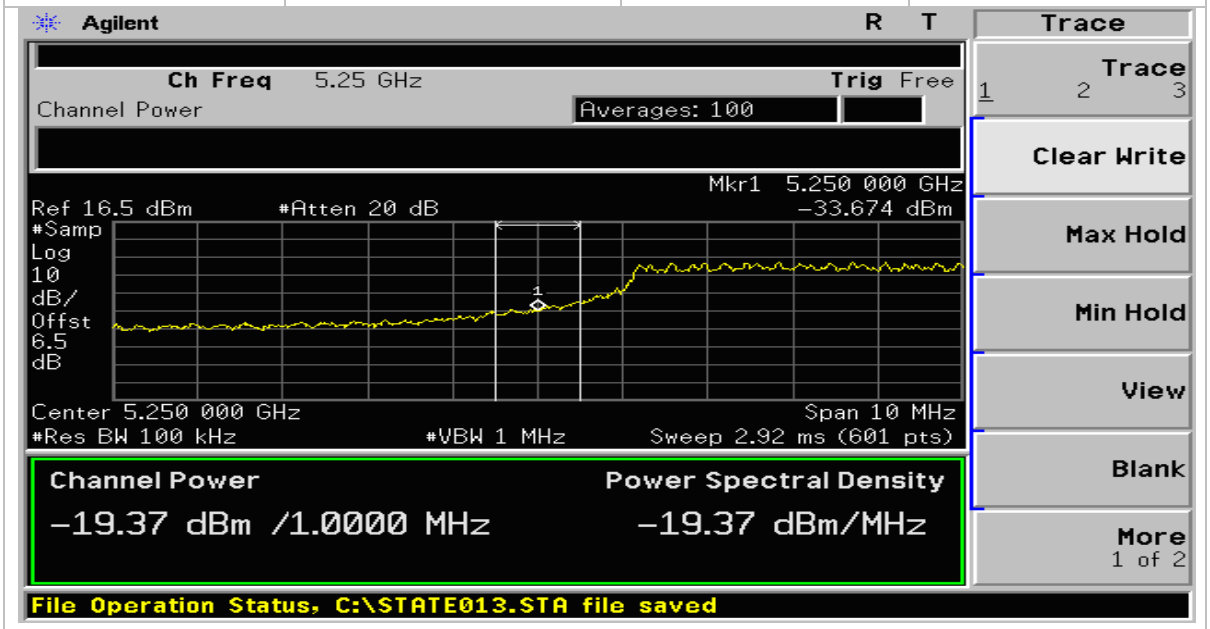
Conducted Band Edge Emissions Test Results (Continued)

802.11n Mode (20 MHz Wide)

Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.24 GHz band edge	A	KN



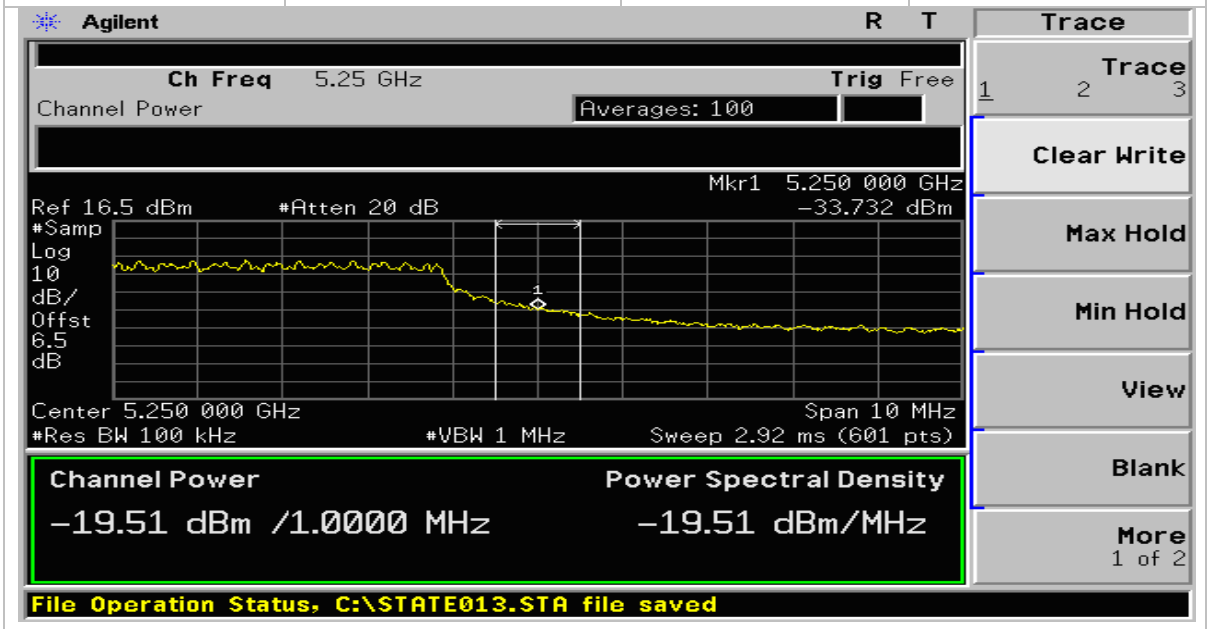
Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.26 GHz band edge	A	KN



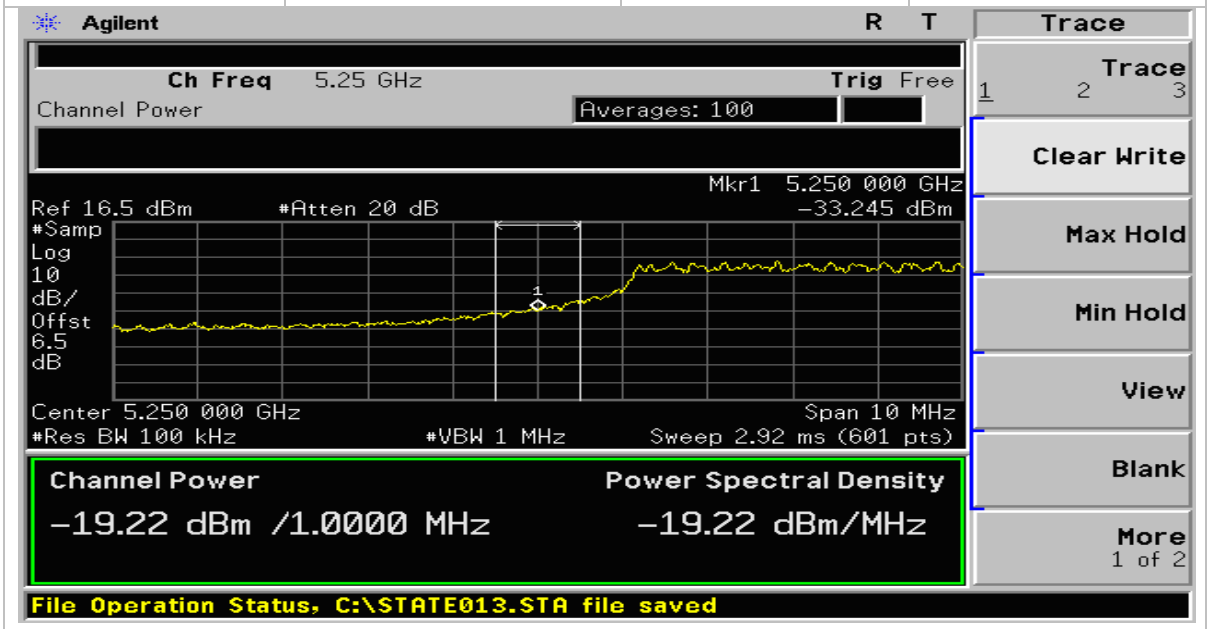
Conducted Band Edge Emissions Test Results (Continued)

802.11n Mode (20 MHz Wide)

Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.24 GHz band edge	B	KN



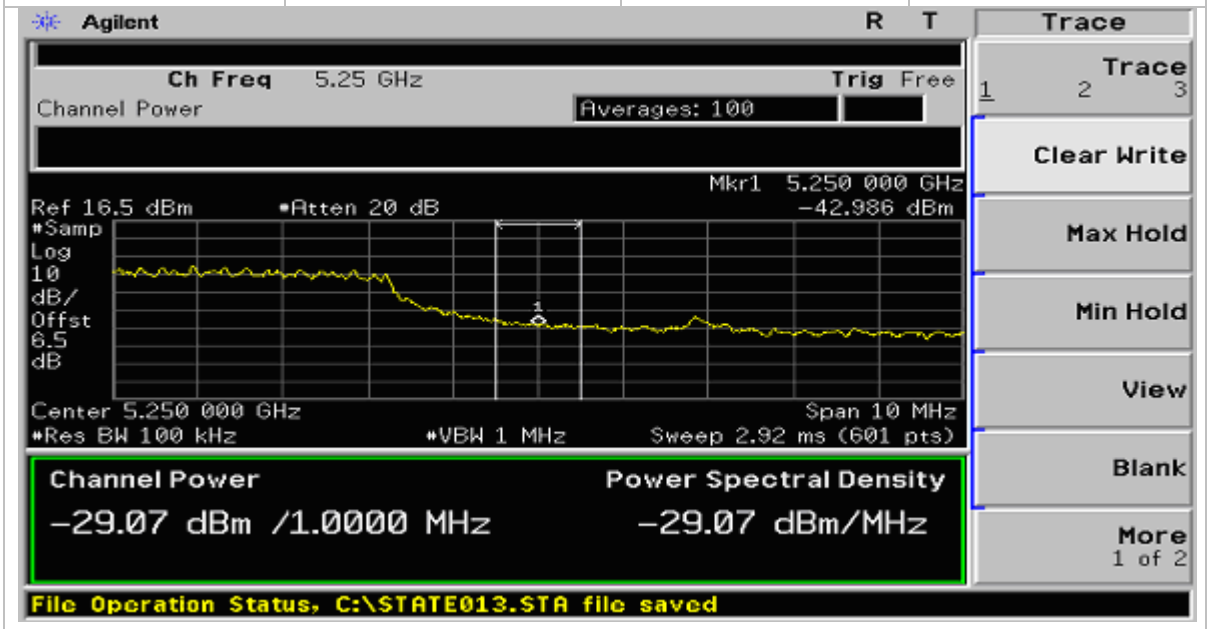
Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.26 GHz band edge	B	KN



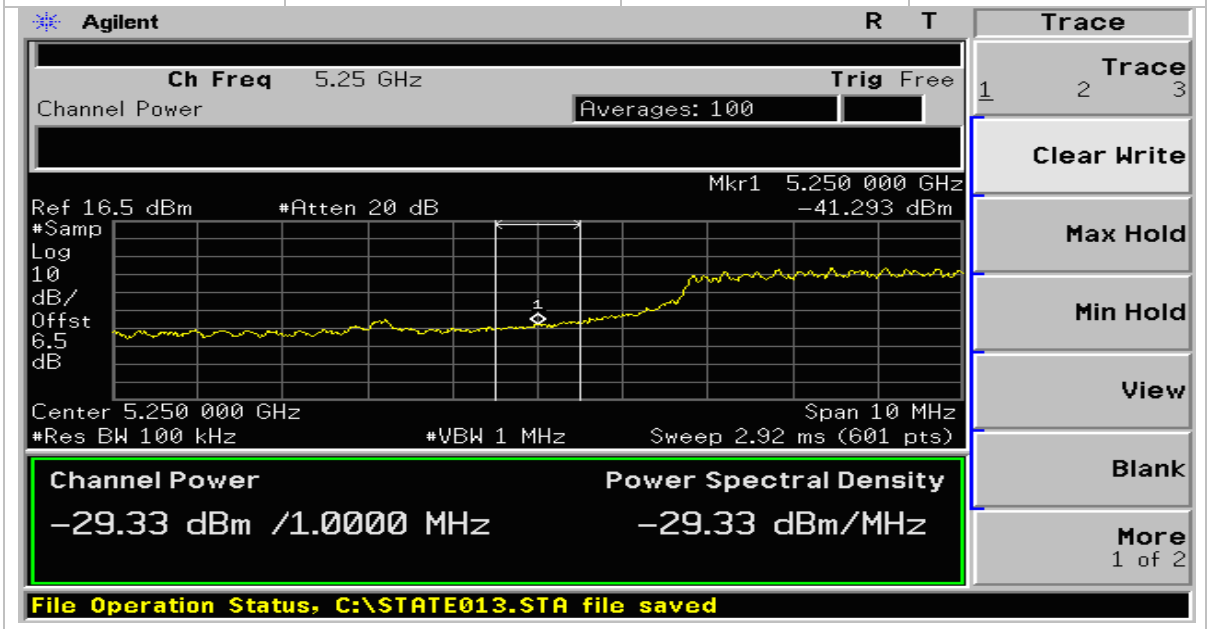
Conducted Band Edge Emissions Test Results (Continued)

802.11n Mode (40 MHz Wide)

Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.23 GHz band edge	A	KN



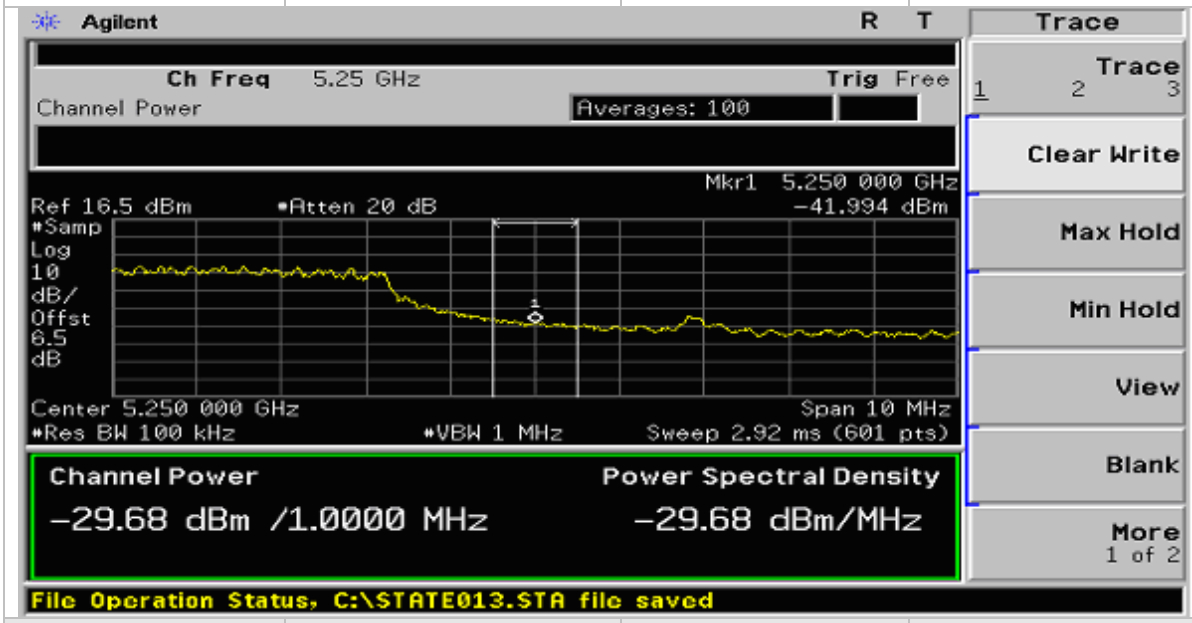
Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.27 GHz band edge	A	KN



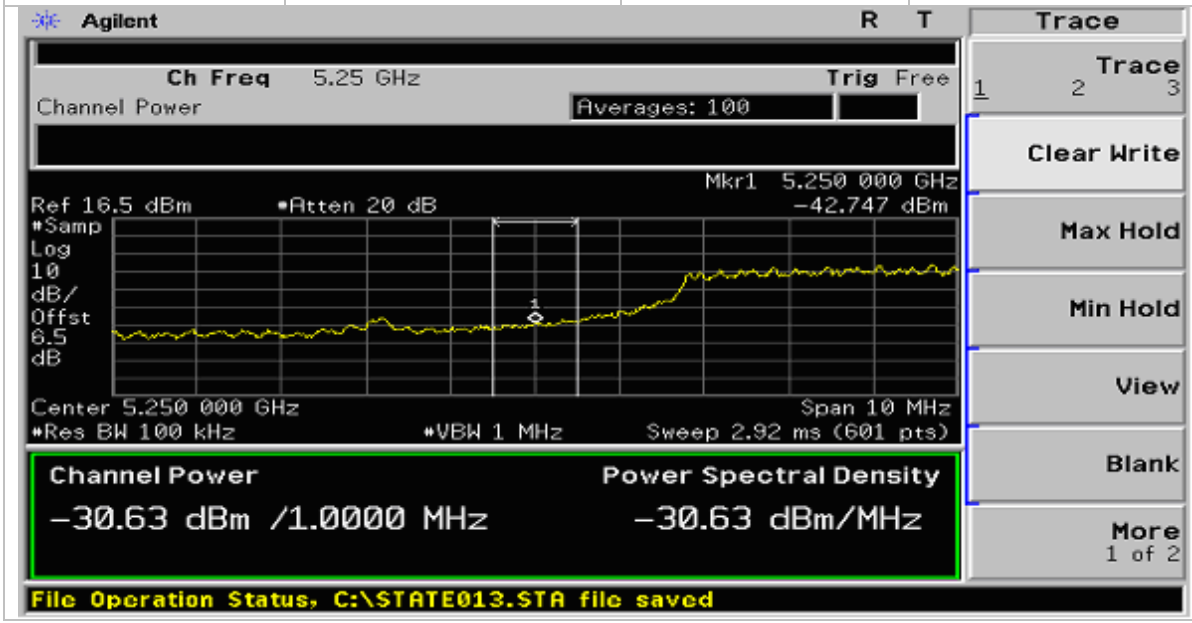
Conducted Band Edge Emissions Test Results (Continued)

802.11n Mode (40 MHz Wide)

Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.23 GHz band edge	B	KN



Test Date	*Data*	*Chain*	*Test Eng.*
07/22/09	5.27 GHz band edge	B	KN



26dB EMISSIONS BANDWIDTH

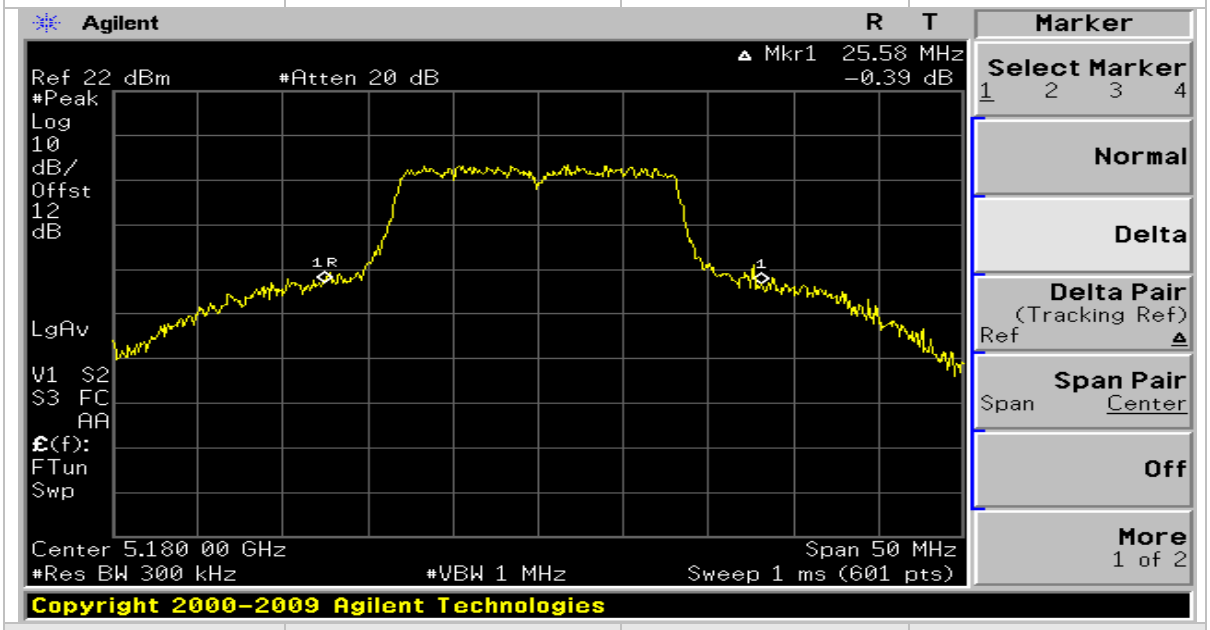
CLIENT:	Intel Corporation	**DATE:**	08/10/09
EUT:	Intel WiFi Link 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A70A4	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	**TEMPERATURE:**	25 deg. C
		HUMIDITY:	36% RH
		TIME:	1:50 PM

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. • 120VAC / 60 Hz.

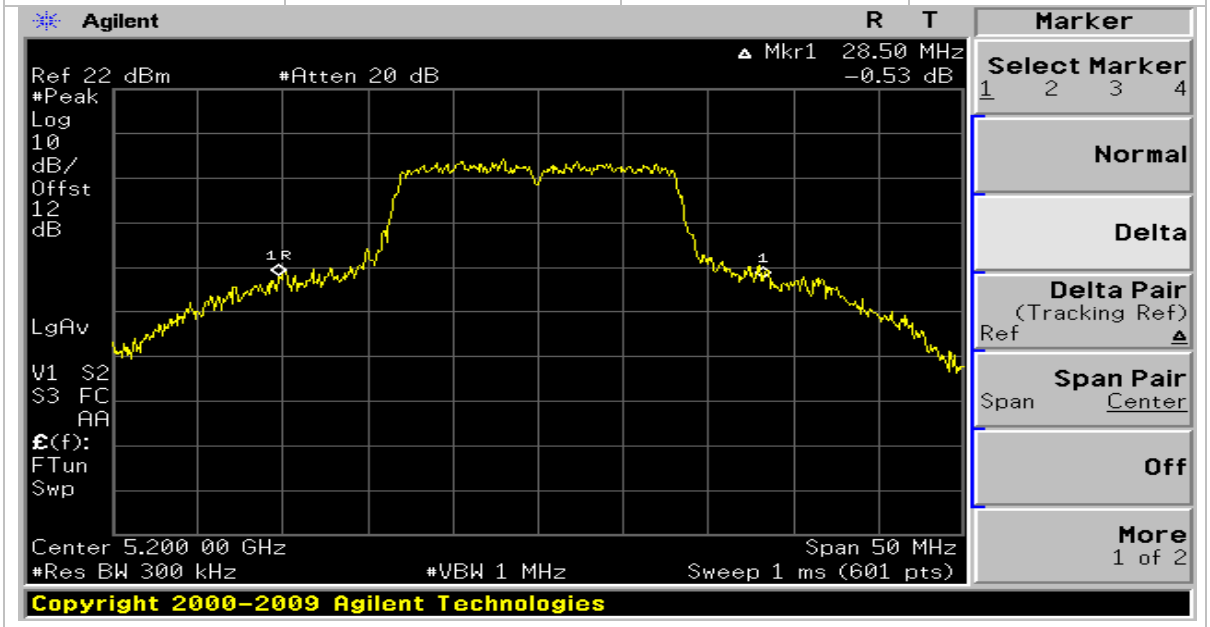
26dB Emissions Bandwidth (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.18 GHz	A	JC



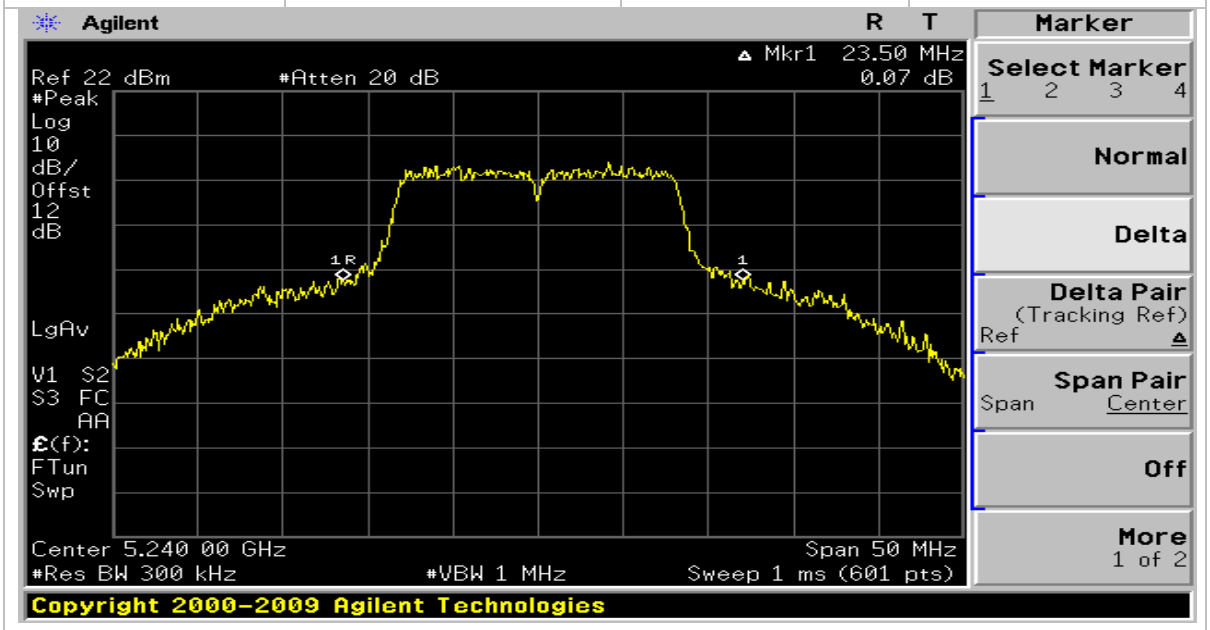
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.20 GHz	A	JC



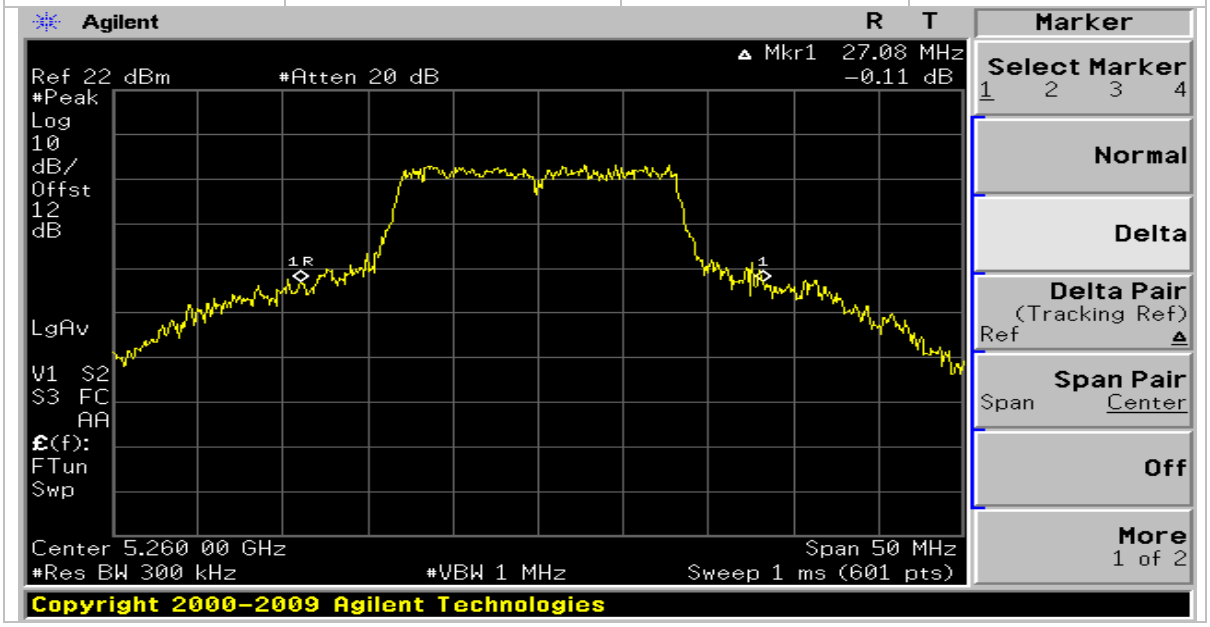
26dB Emissions Bandwidth (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.24 GHz	A	JC



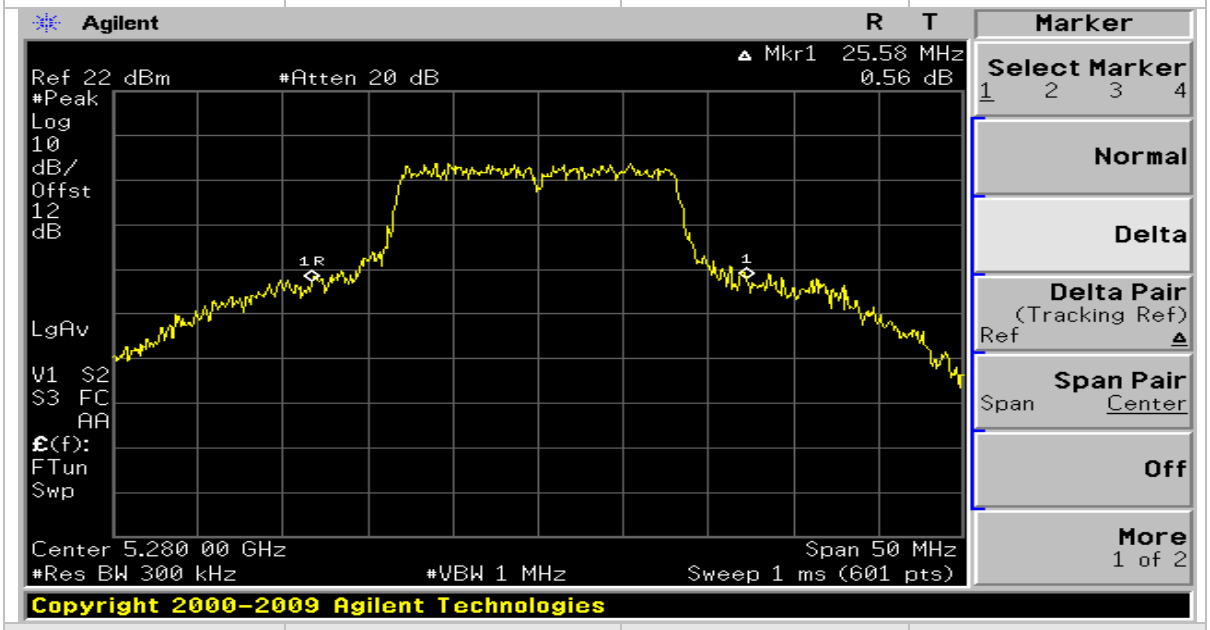
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.26 GHz	A	JC



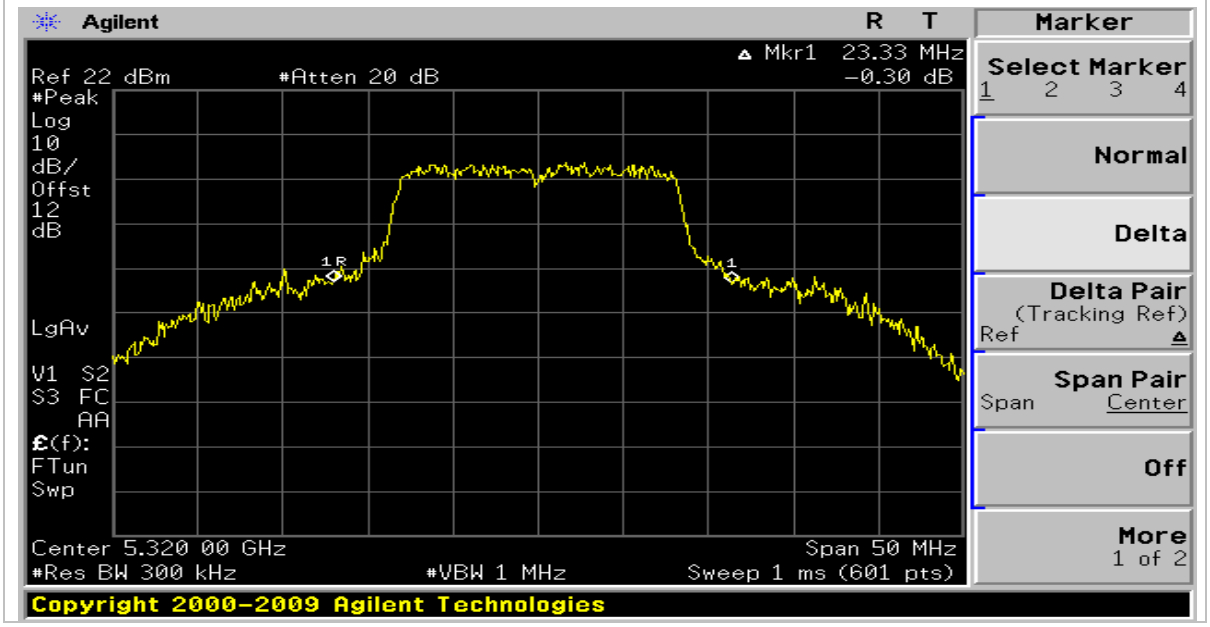
26dB Emissions Bandwidth (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.28 GHz	A	JC



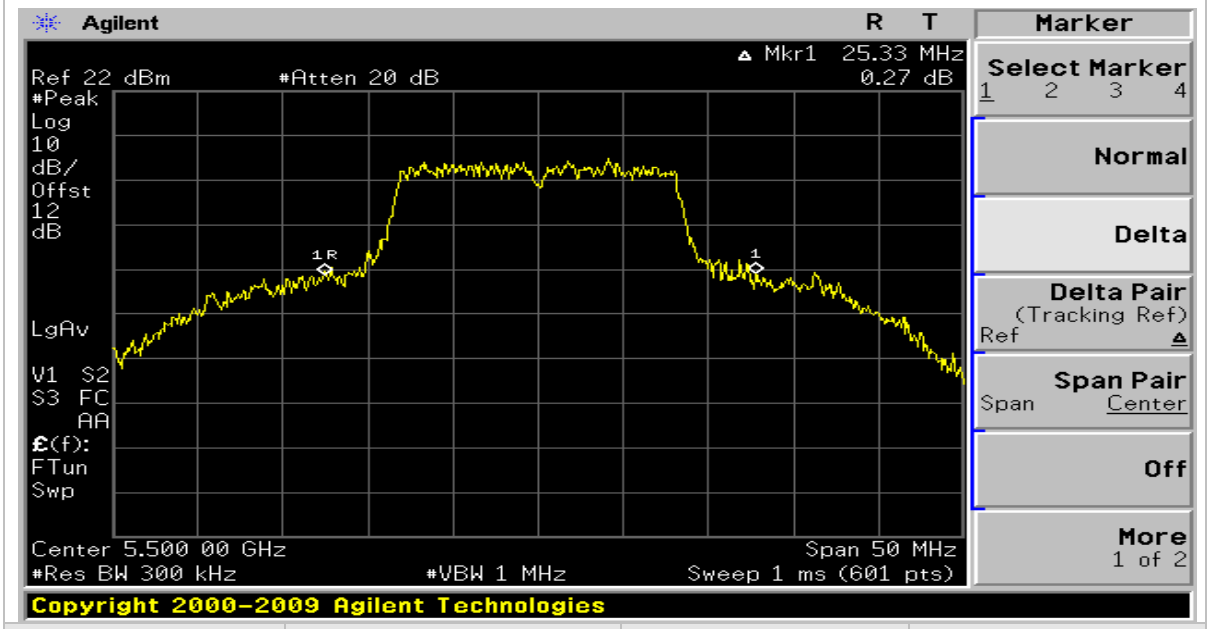
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.32 GHz	A	JC



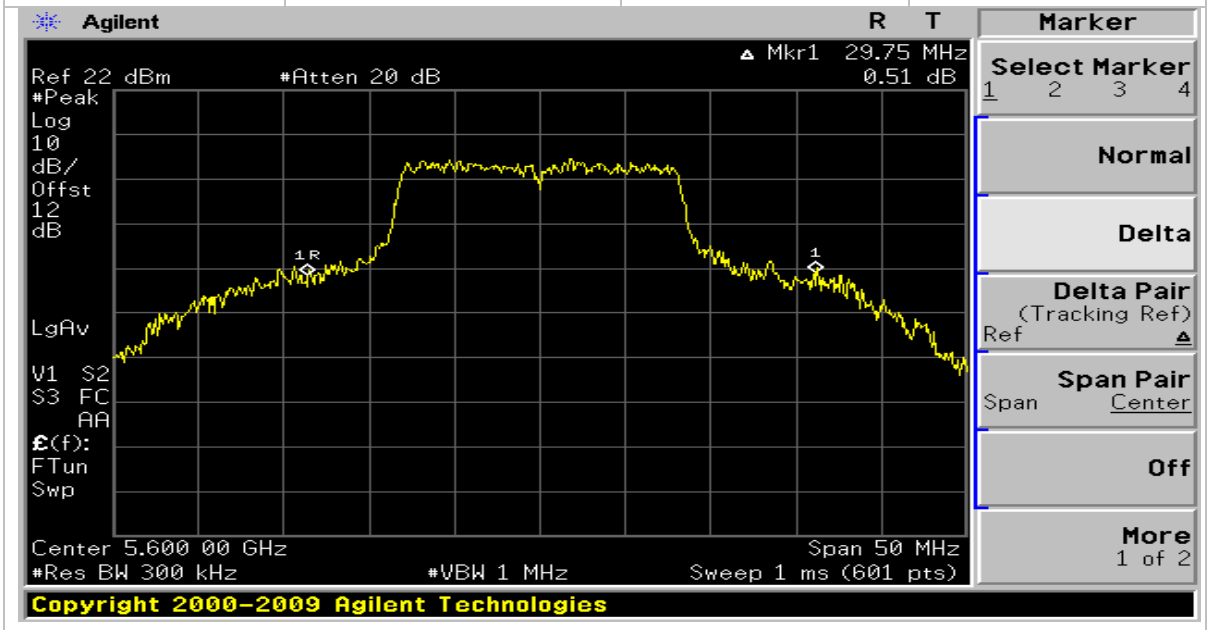
26dB Emissions Bandwidth (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.50 GHz	A	JC



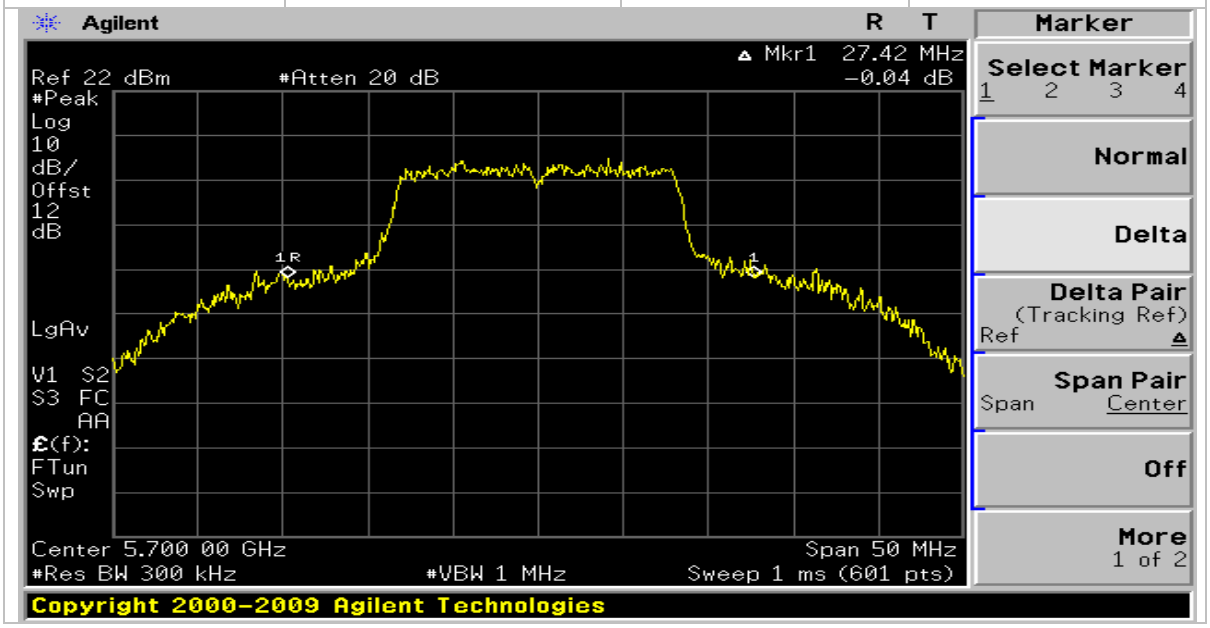
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.60 GHz	A	JC



26dB Emissions Bandwidth (Continued)

802.11a Mode

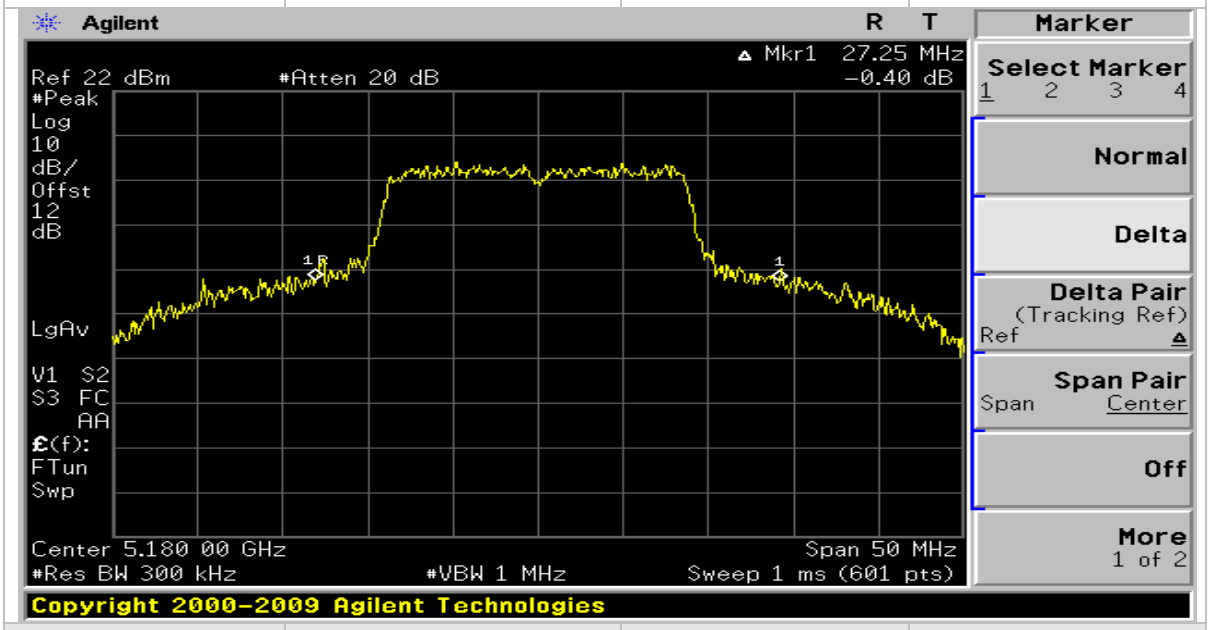
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.70 GHz	A	JC



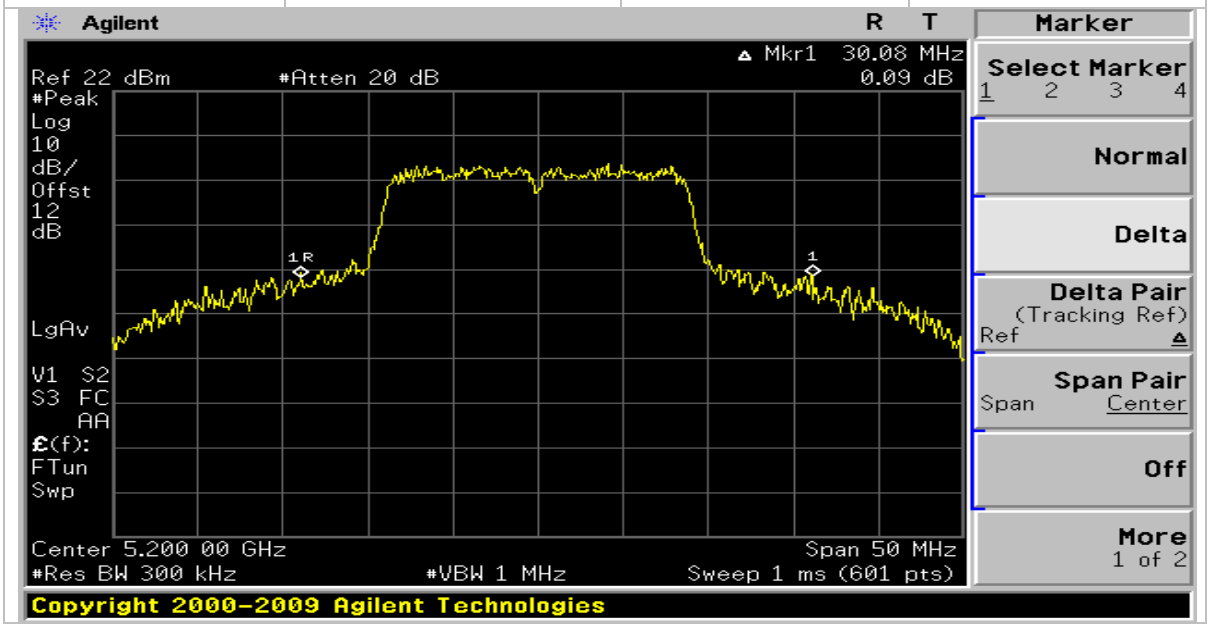
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.18 GHz	A	JC



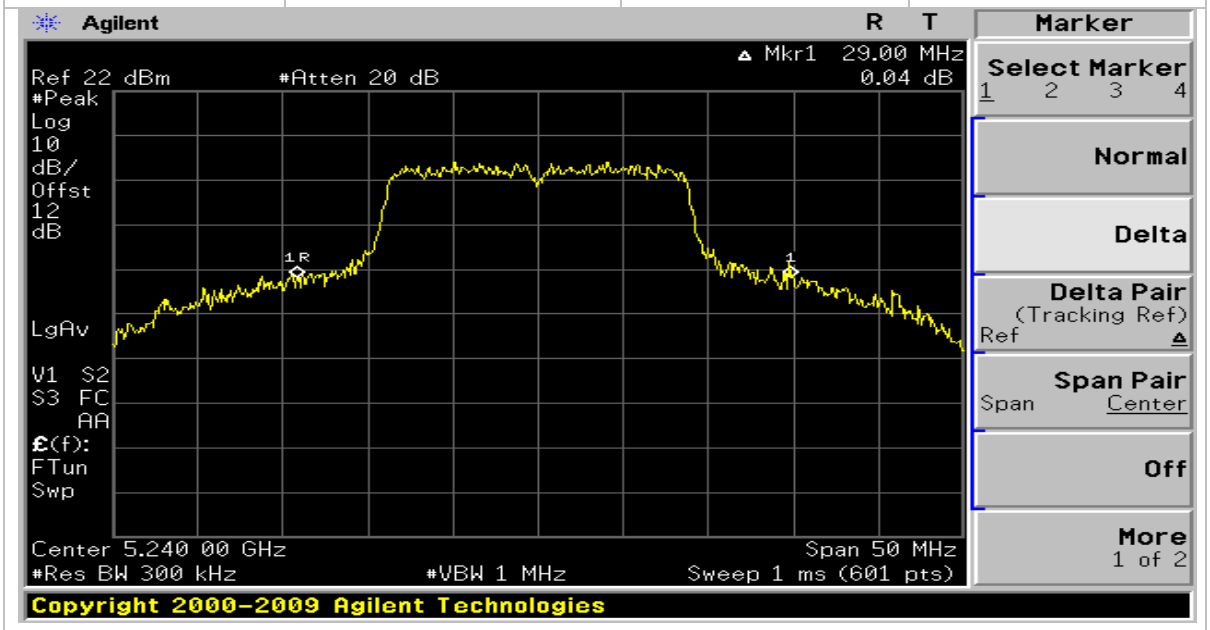
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.20 GHz	A	JC



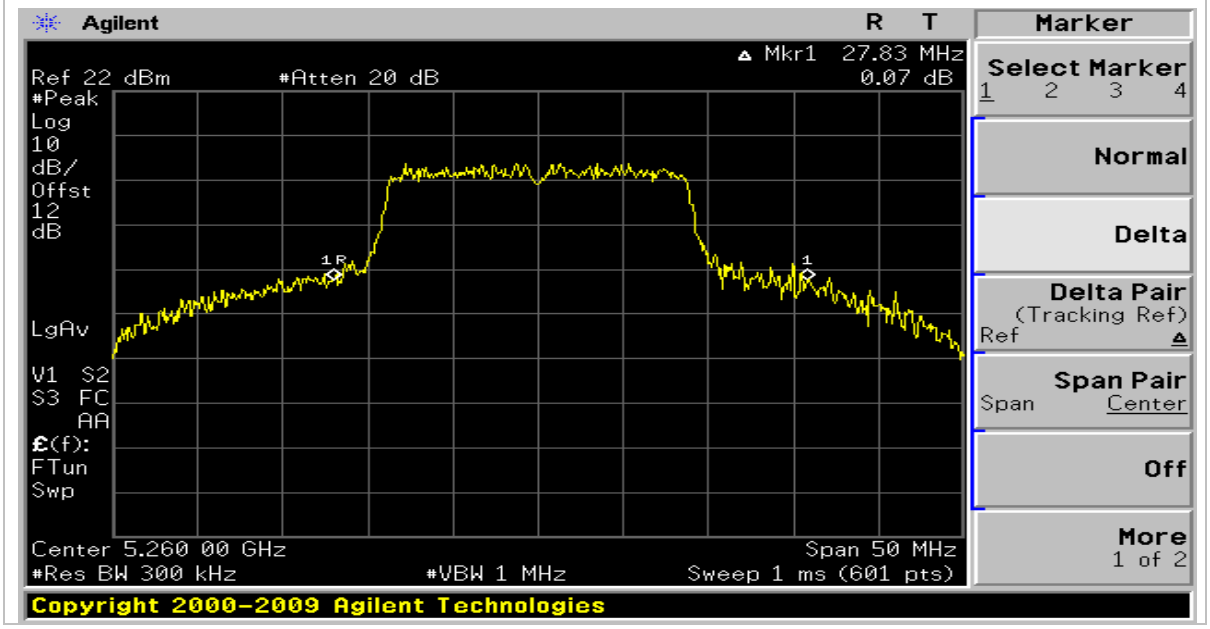
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.24 GHz	A	JC



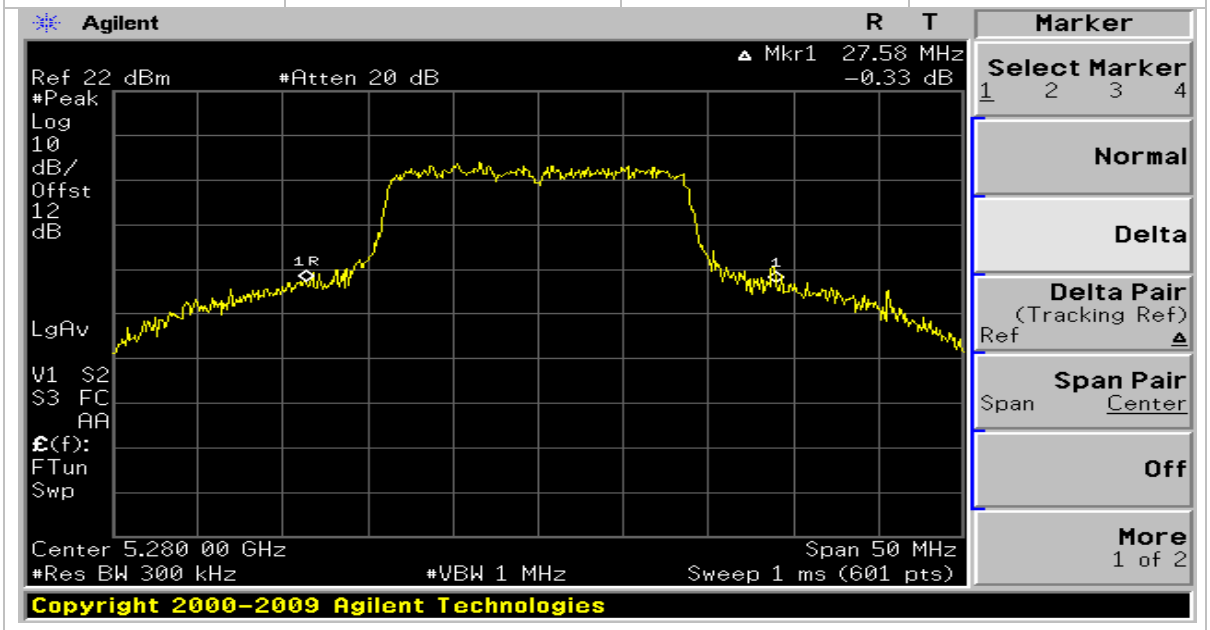
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.26 GHz	A	JC



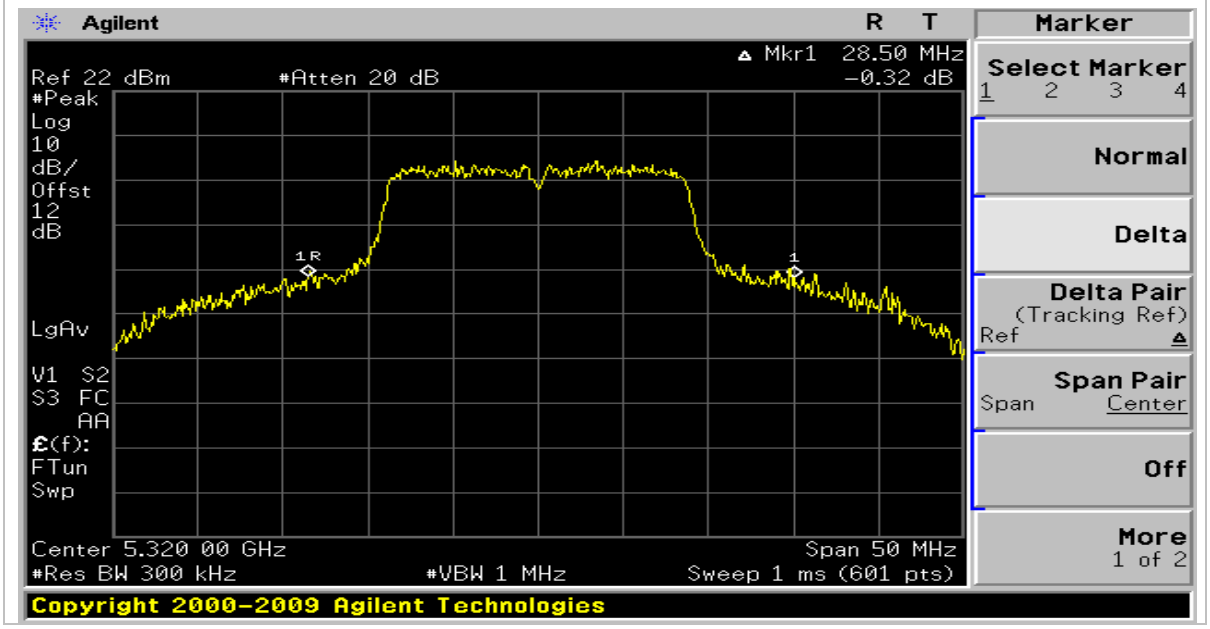
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.28 GHz	A	JC



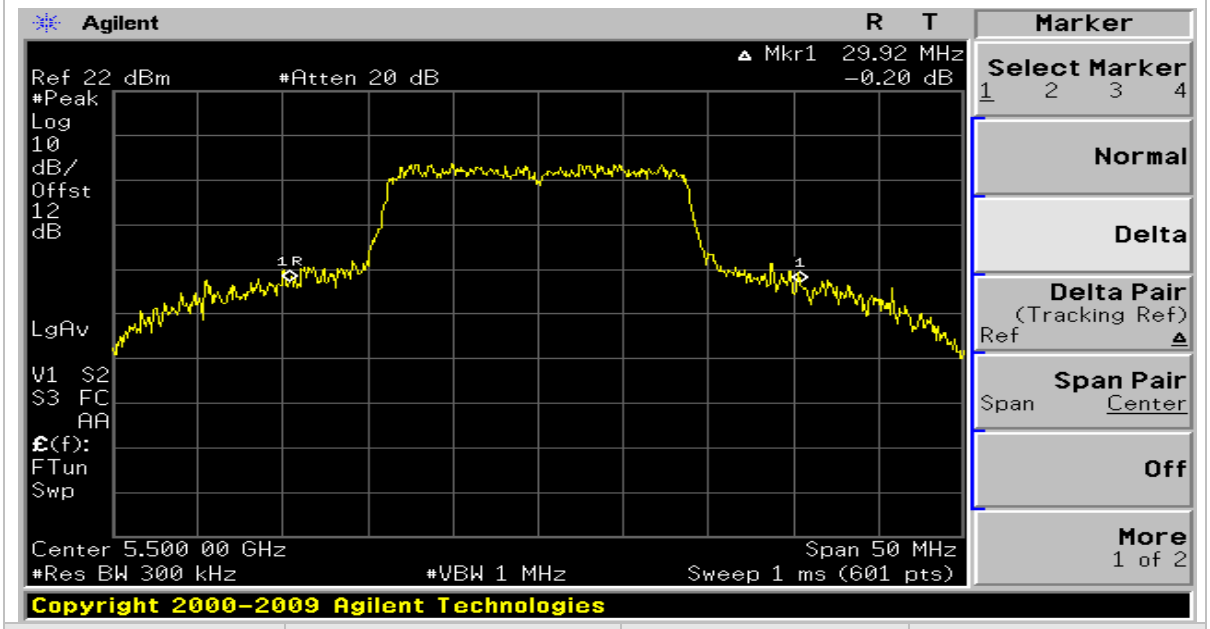
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.32 GHz	A	JC



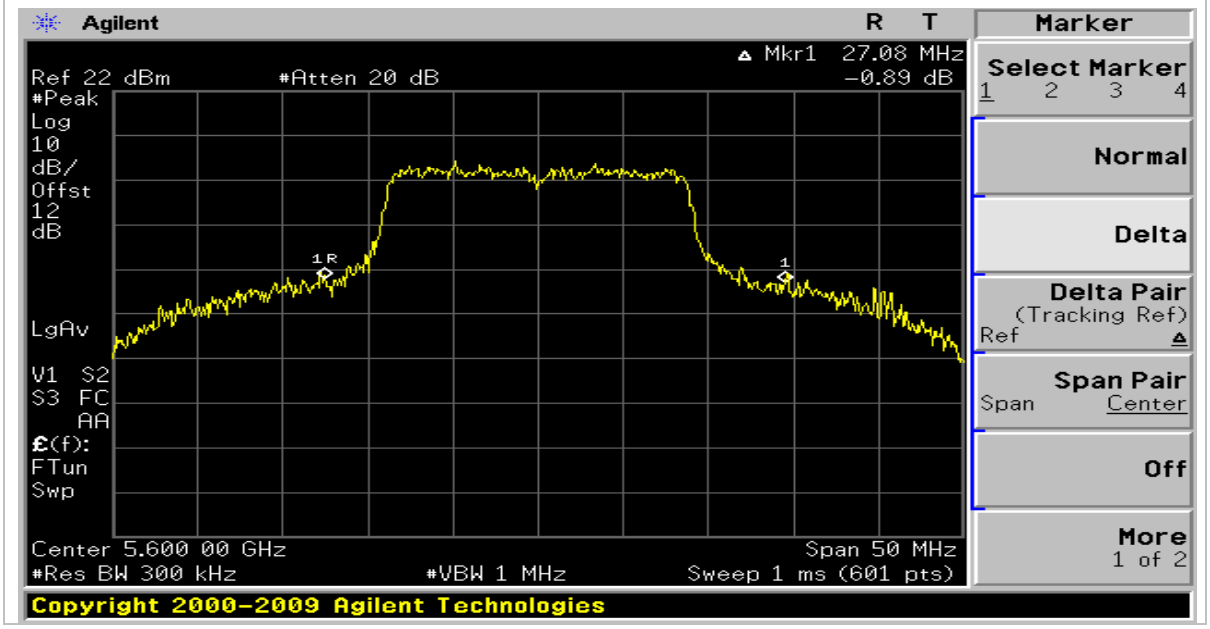
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.50 GHz	A	JC



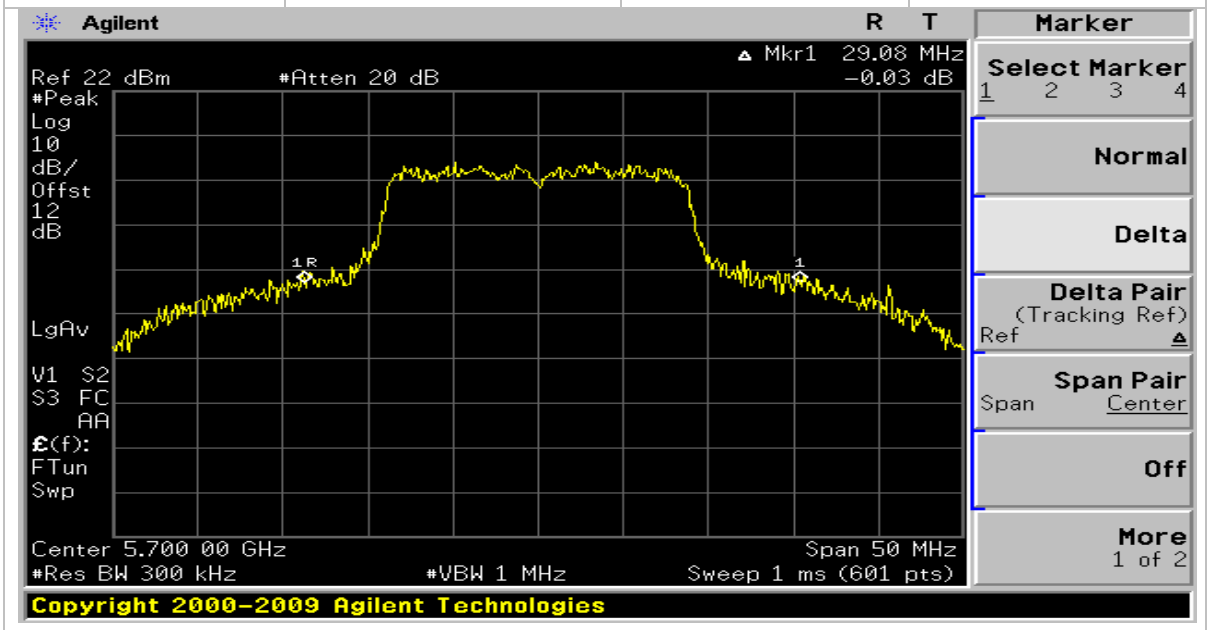
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.60 GHz	A	JC



26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.70 GHz	A	JC

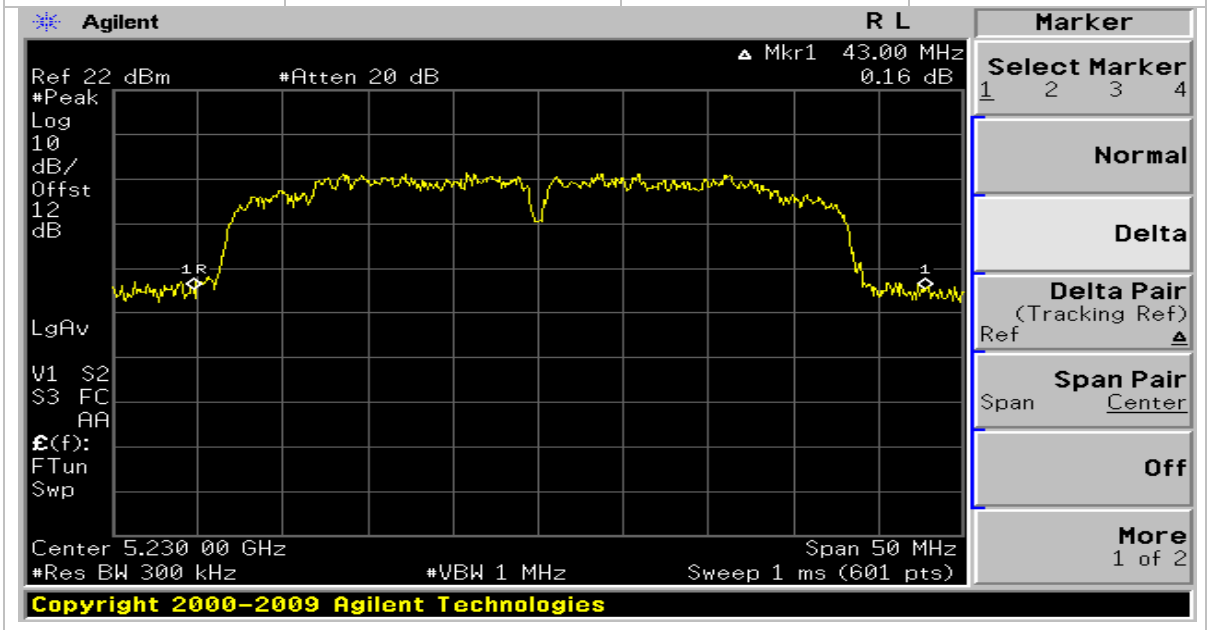


26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.19 GHz	A	JC

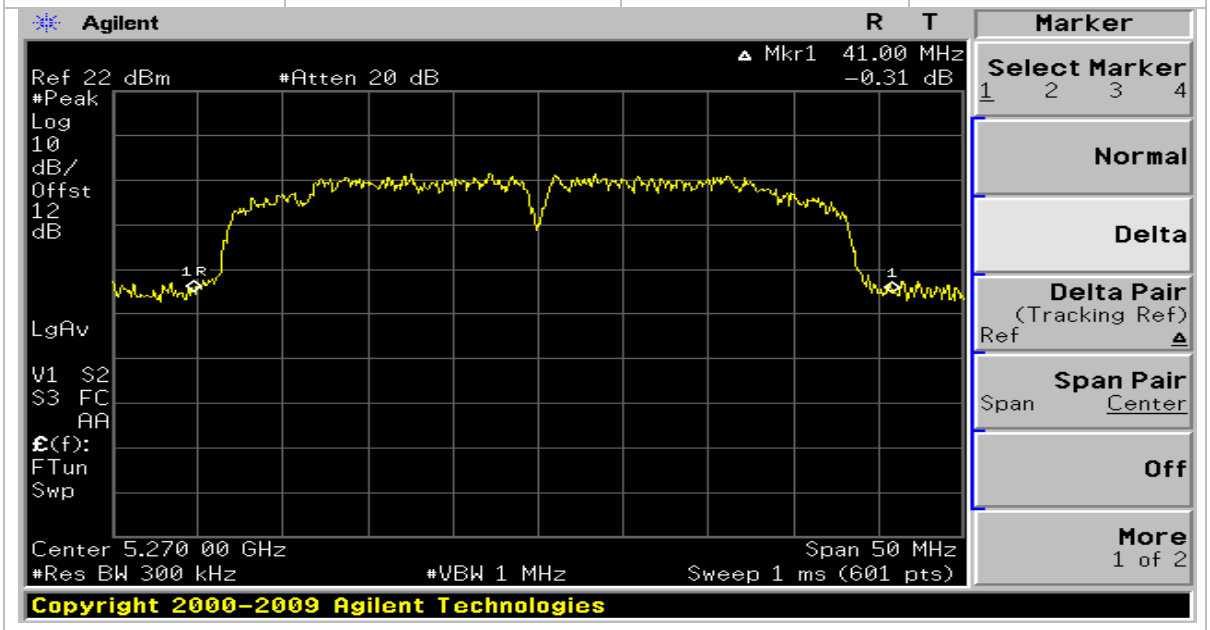
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.23 GHz	A	JC



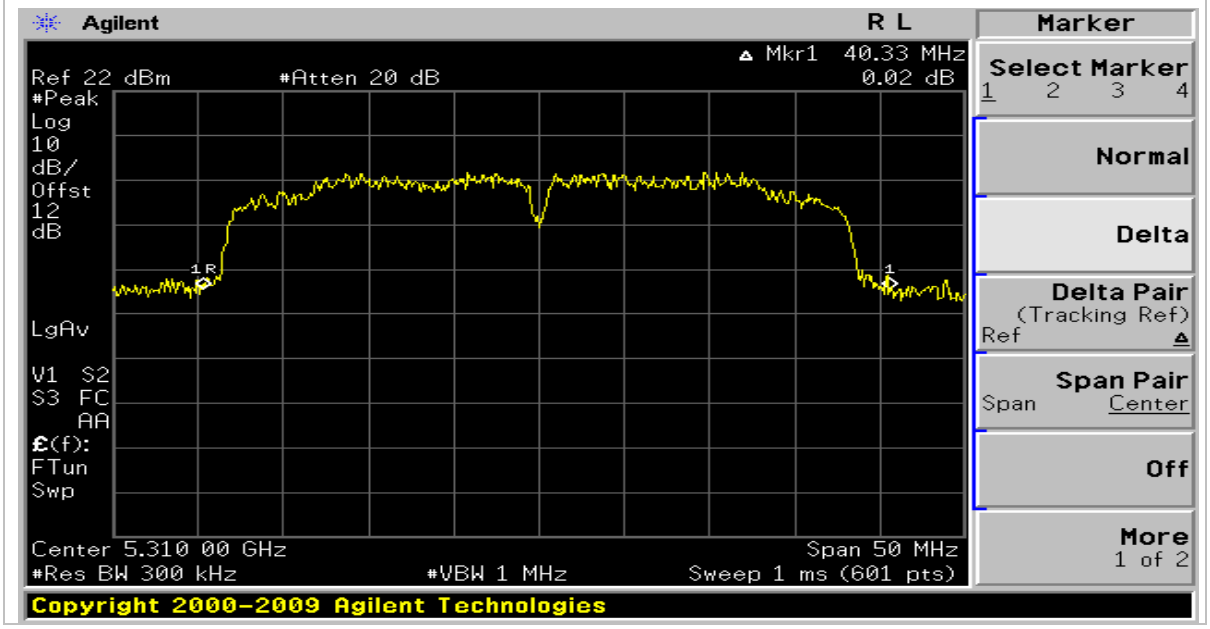
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.27 GHz	A	JC



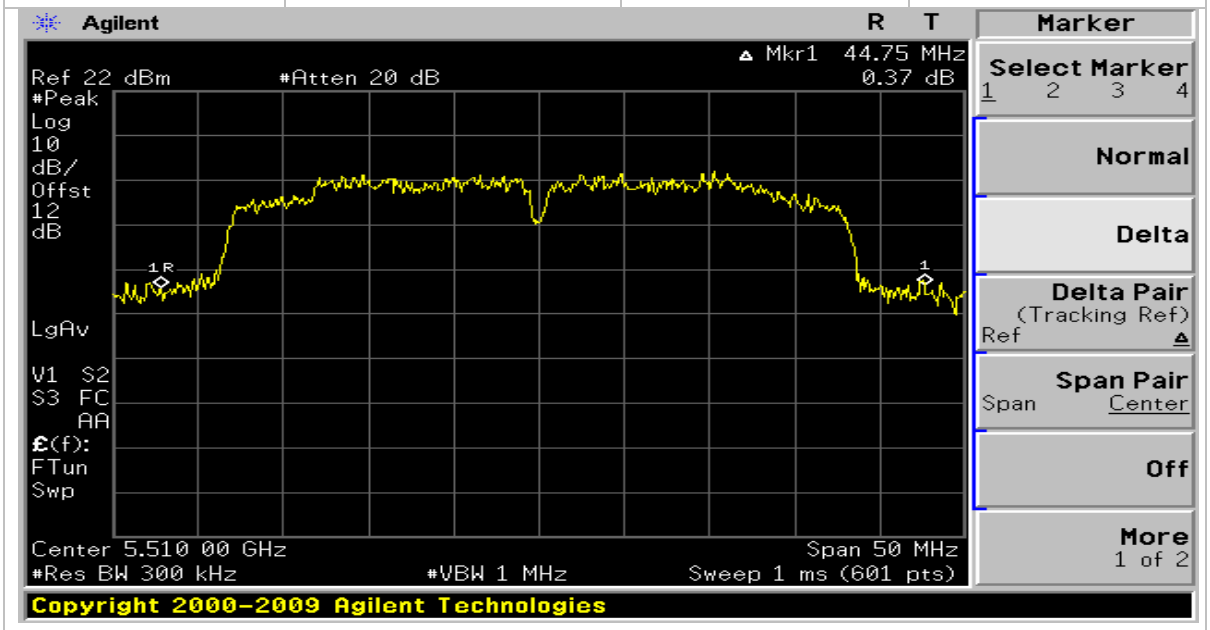
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.31 GHz	A	JC



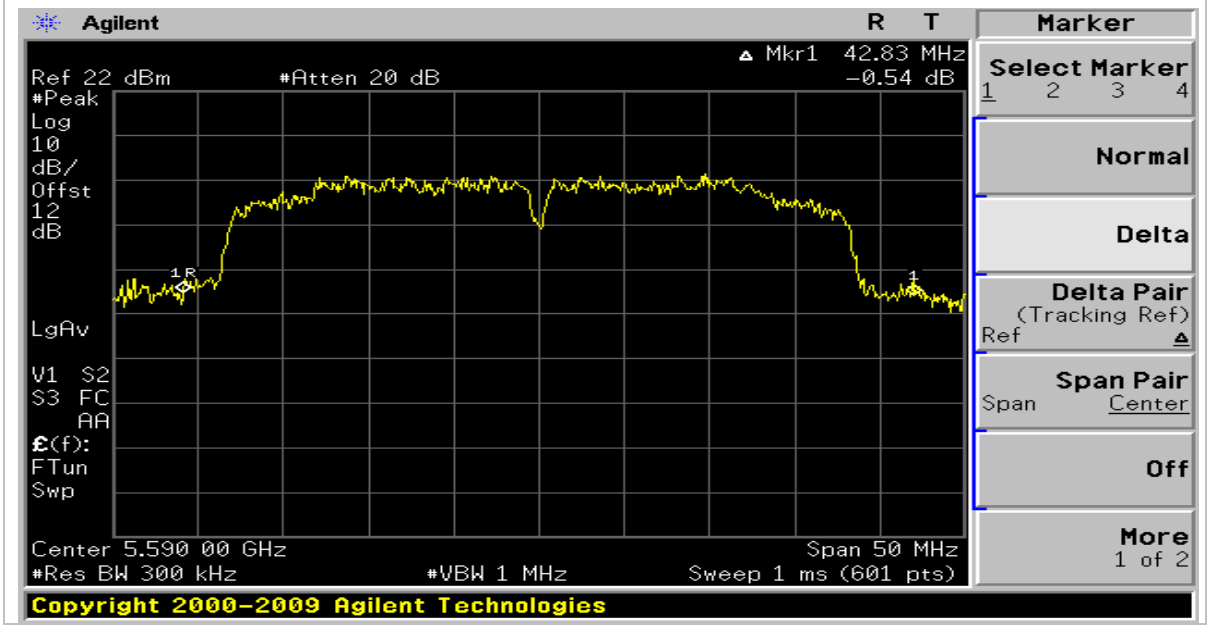
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.51 GHz	A	JC



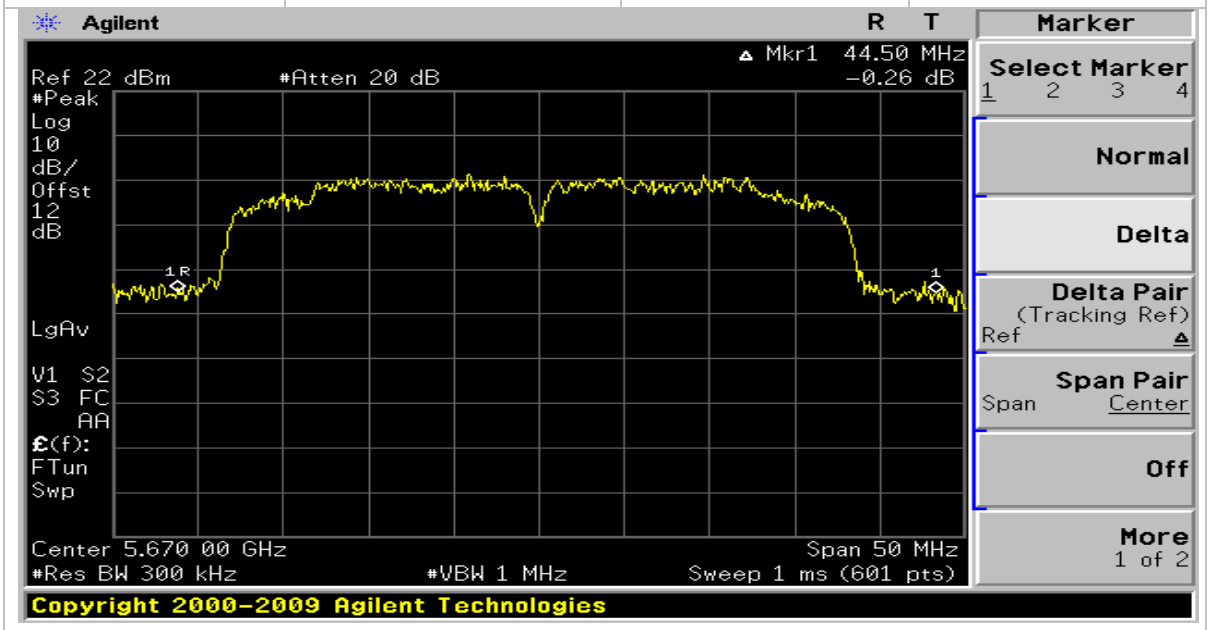
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.59 GHz	A	JC



26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide

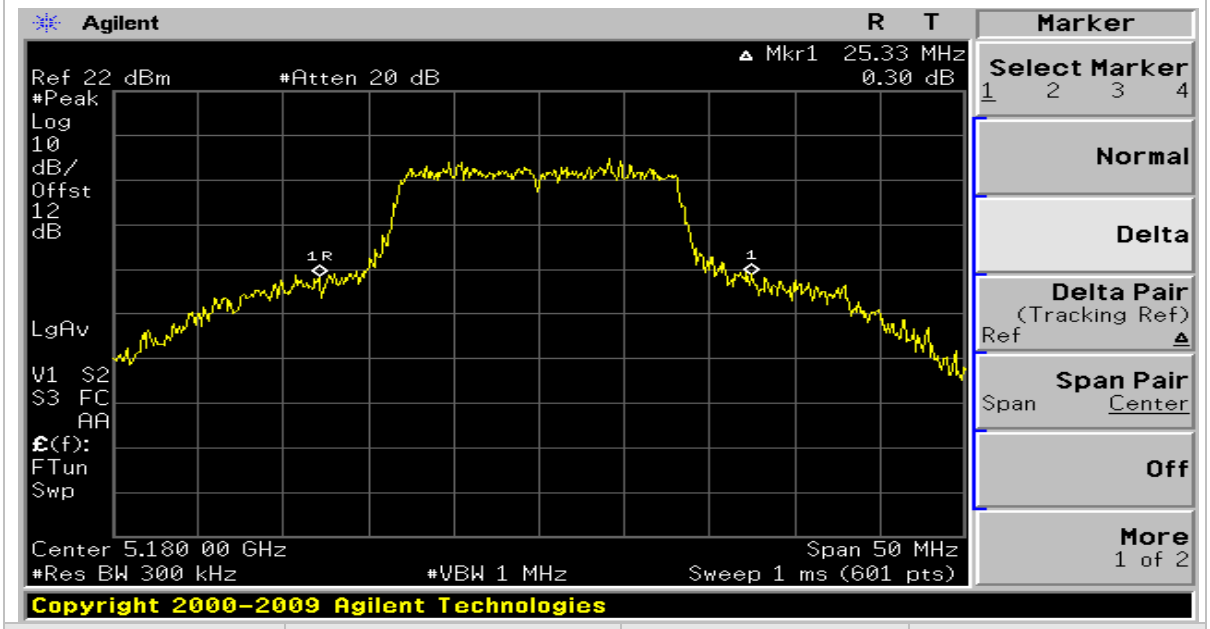
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.67 GHz	A	JC



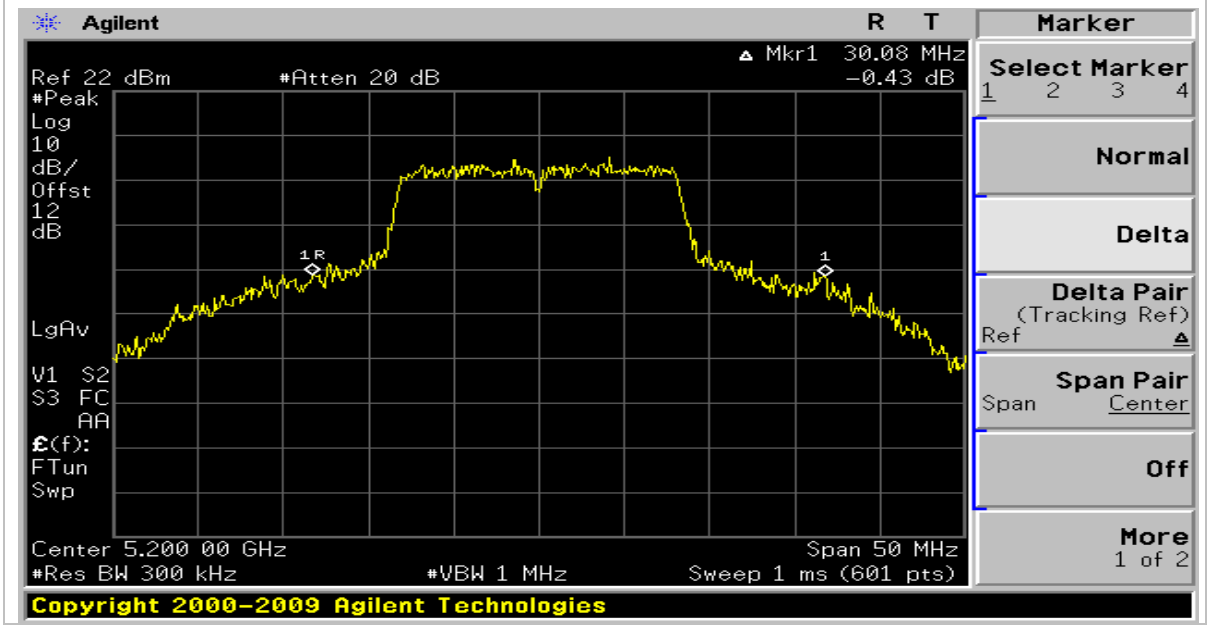
26dB Emissions Bandwidth (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.18 GHz	B	JC



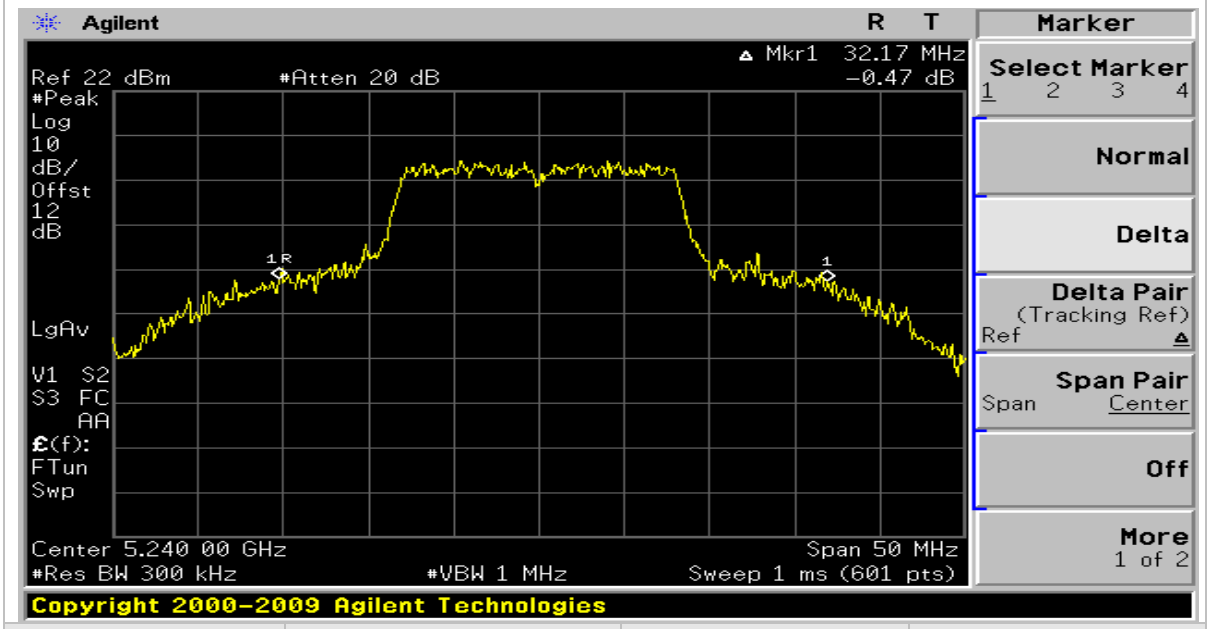
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.20 GHz	B	JC



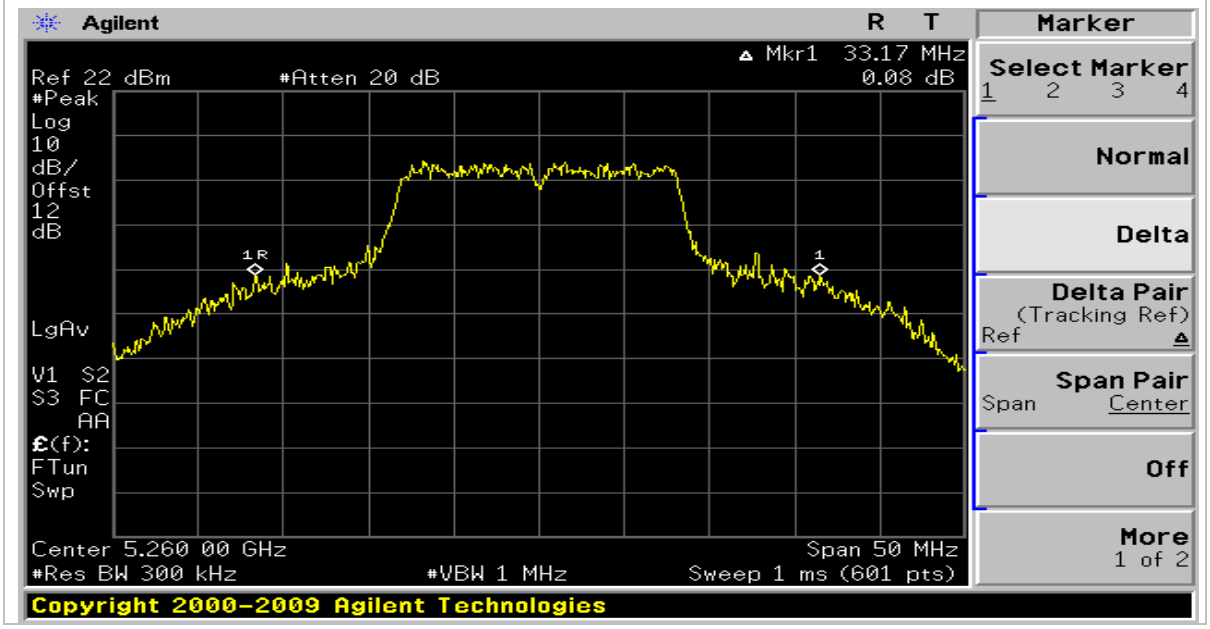
26dB Emissions Bandwidth (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.24 GHz	B	JC



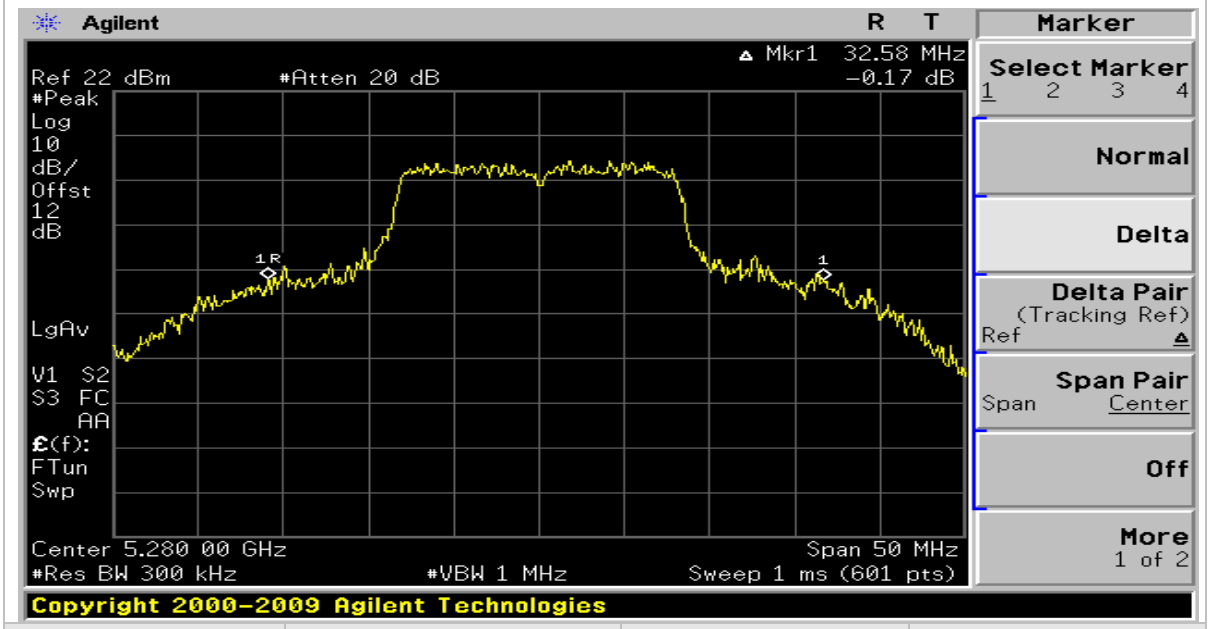
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.26 GHz	B	JC



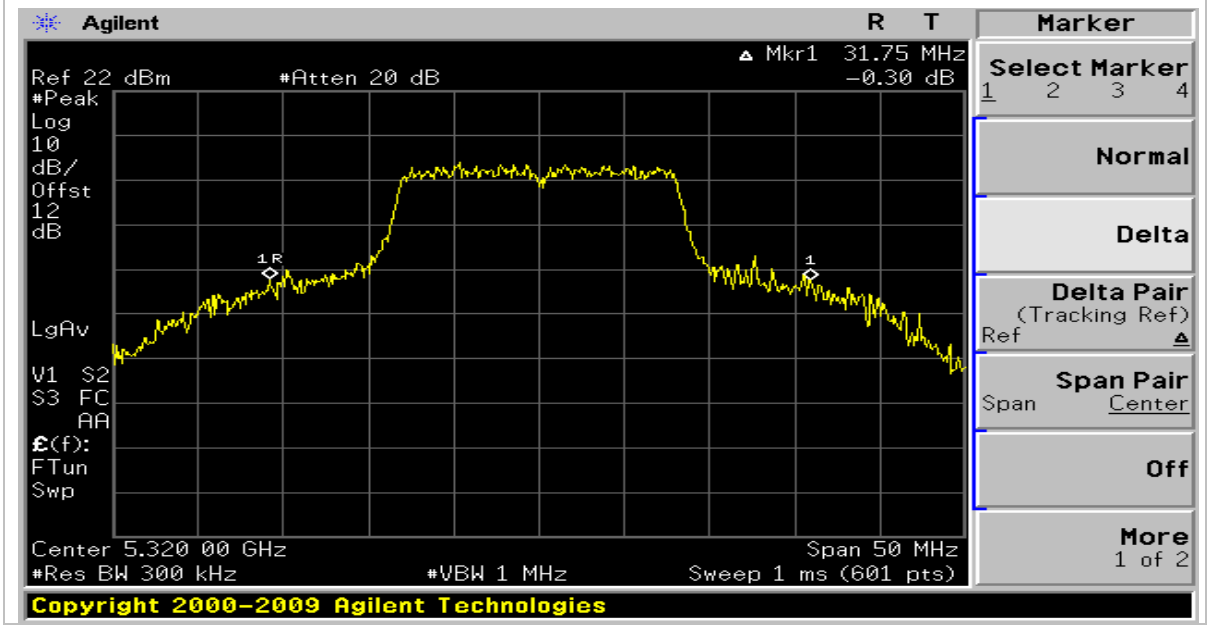
26dB Emissions Bandwidth (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.28 GHz	B	JC



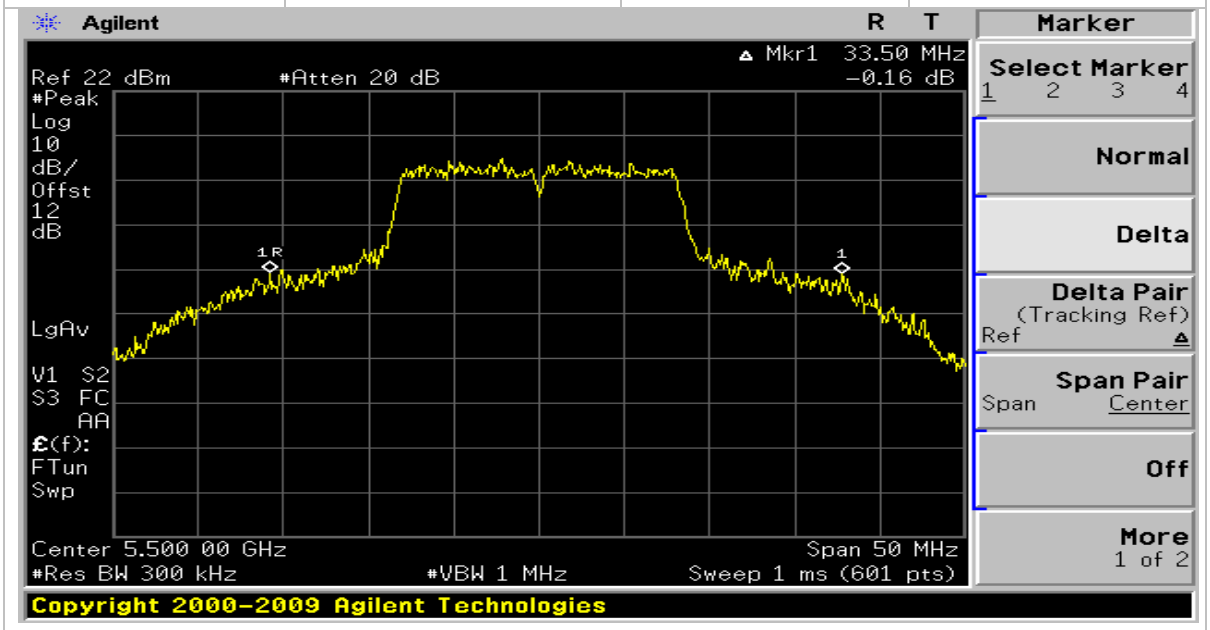
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.32 GHz	B	JC



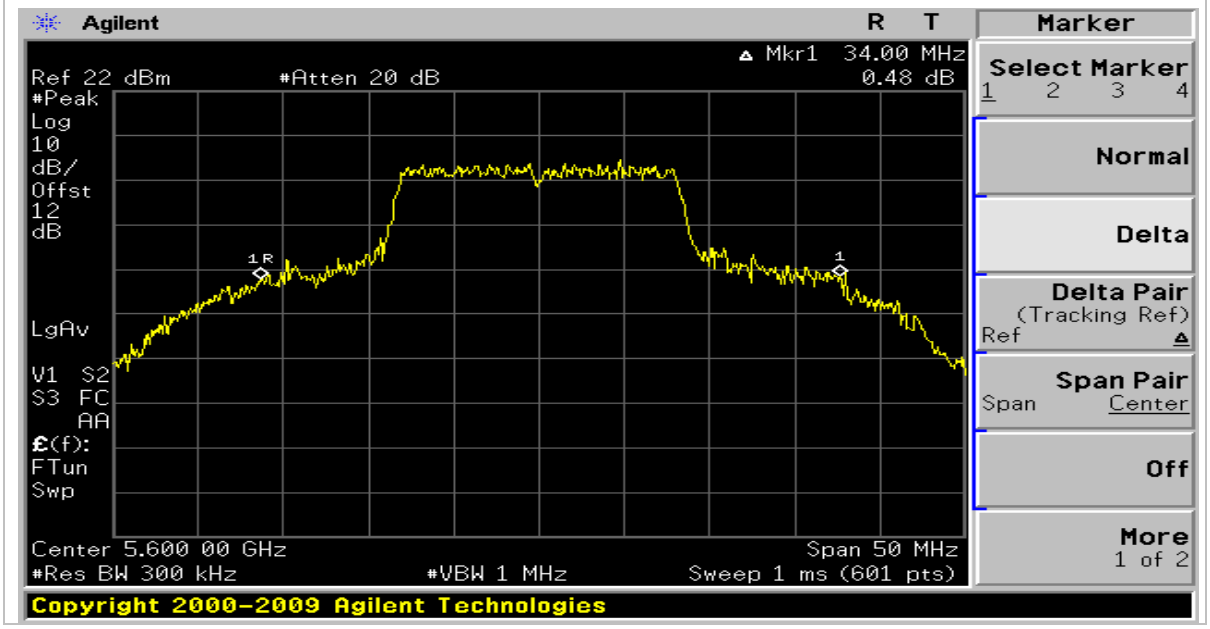
26dB Emissions Bandwidth (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.50 GHz	B	JC



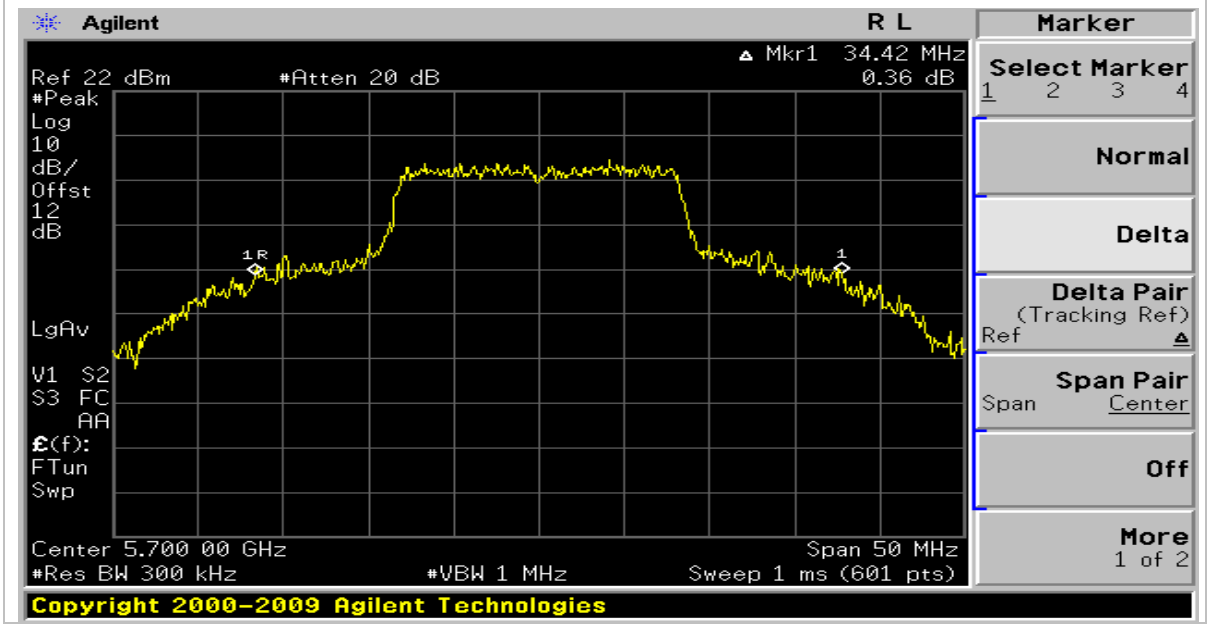
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.60 GHz	B	JC



26dB Emissions Bandwidth (Continued)

802.11a Mode

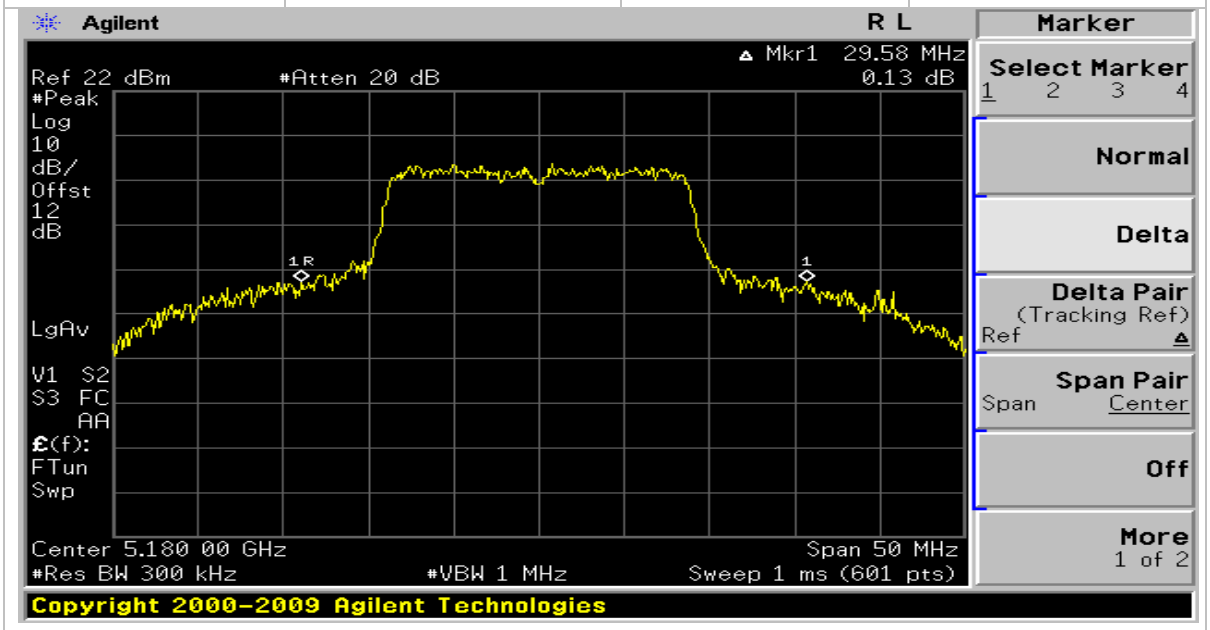
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.70 GHz	B	JC



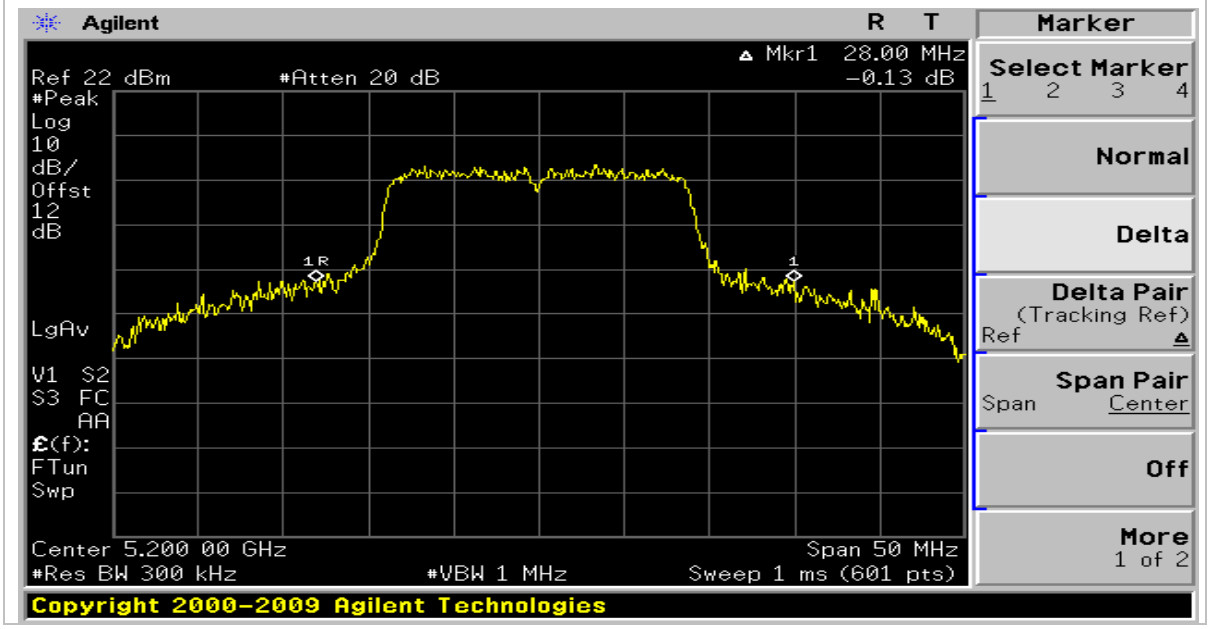
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.18 GHz	B	JC



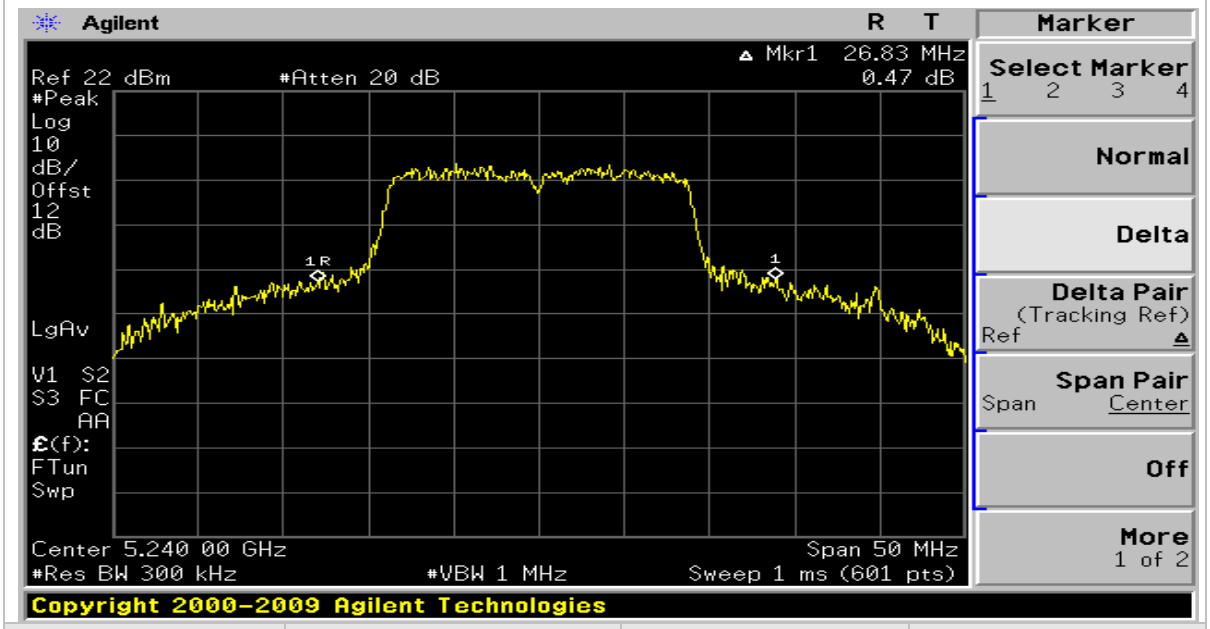
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.20 GHz	B	JC



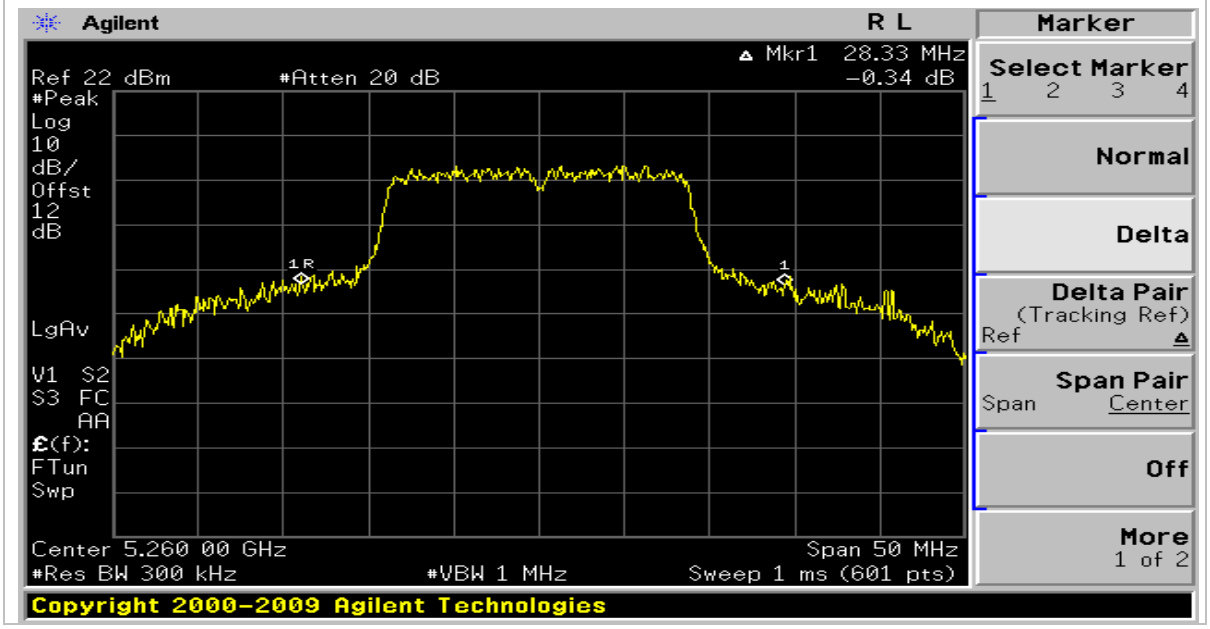
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.24 GHz	B	JC



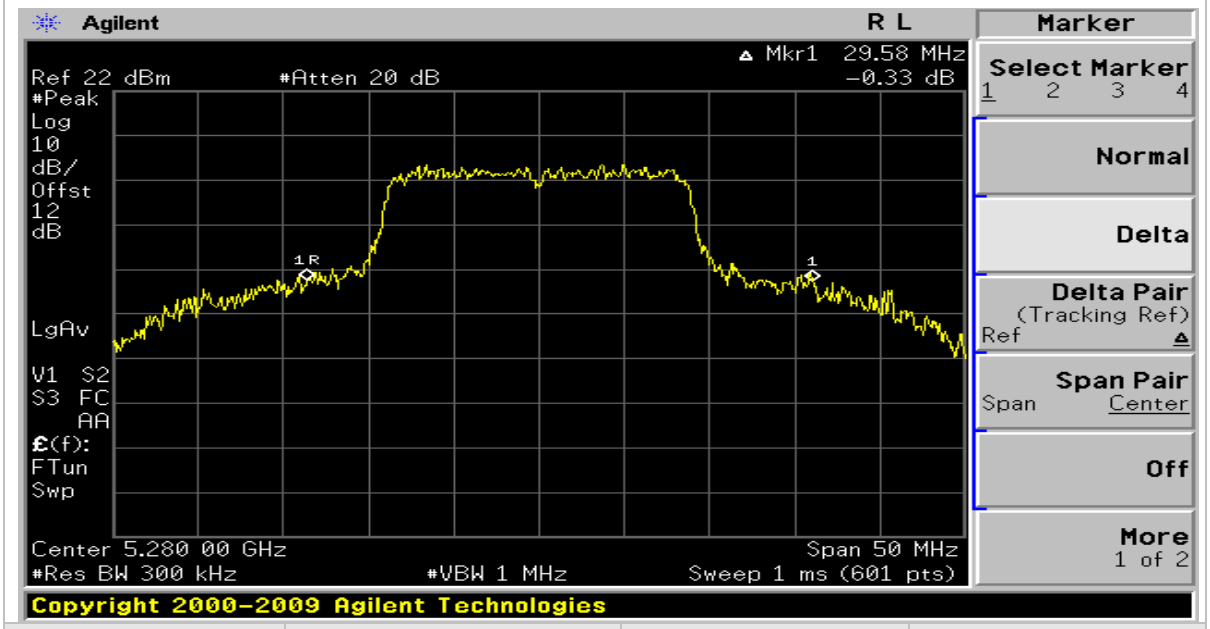
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.26 GHz	B	JC



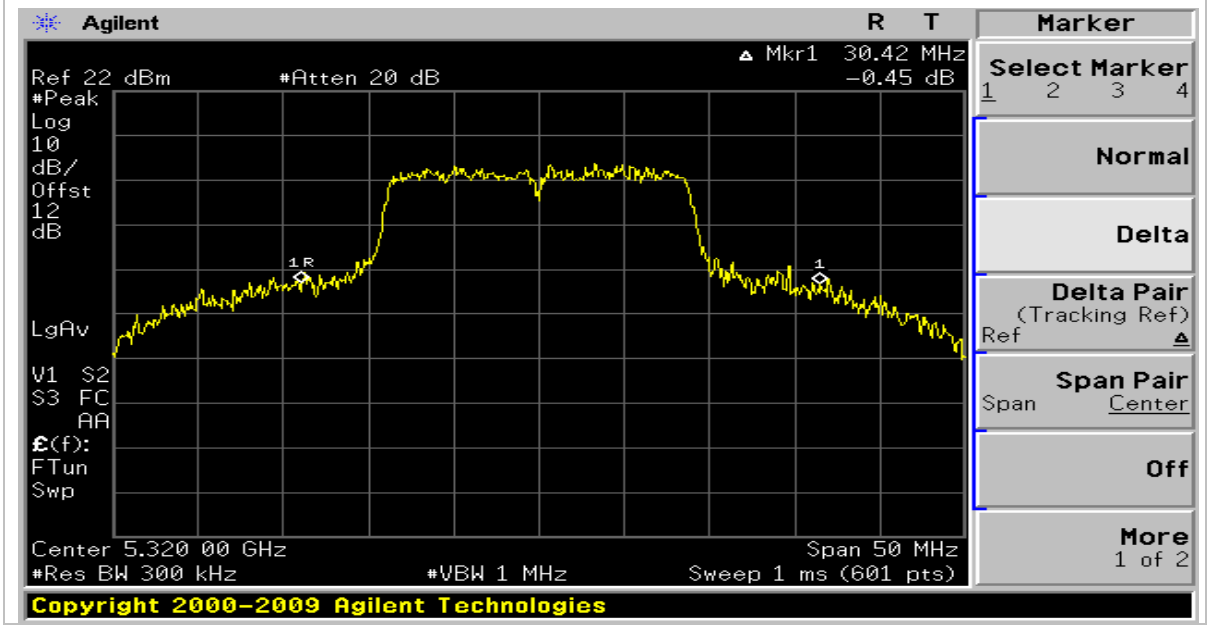
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.28 GHz	B	JC



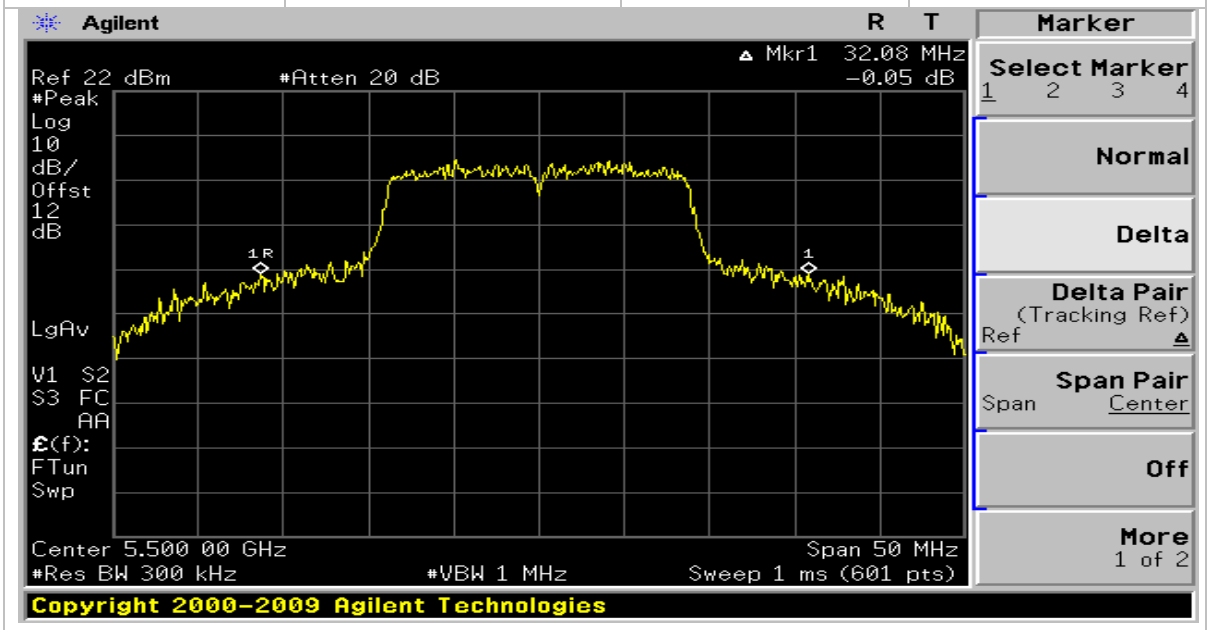
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.32 GHz	B	JC



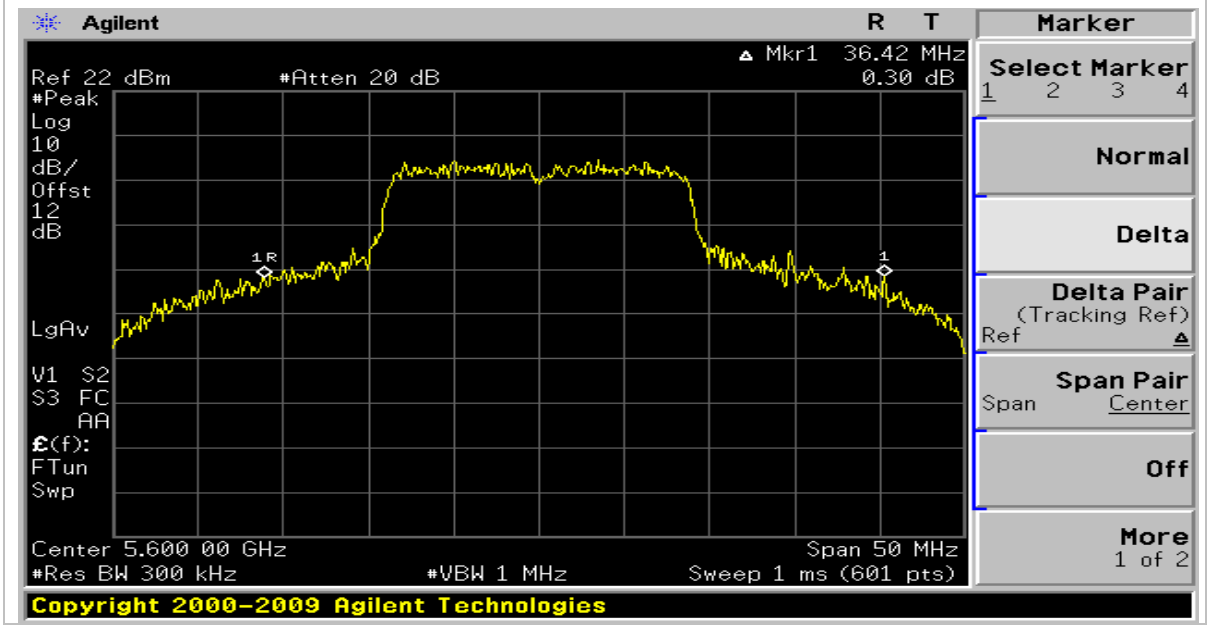
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.50 GHz	B	JC



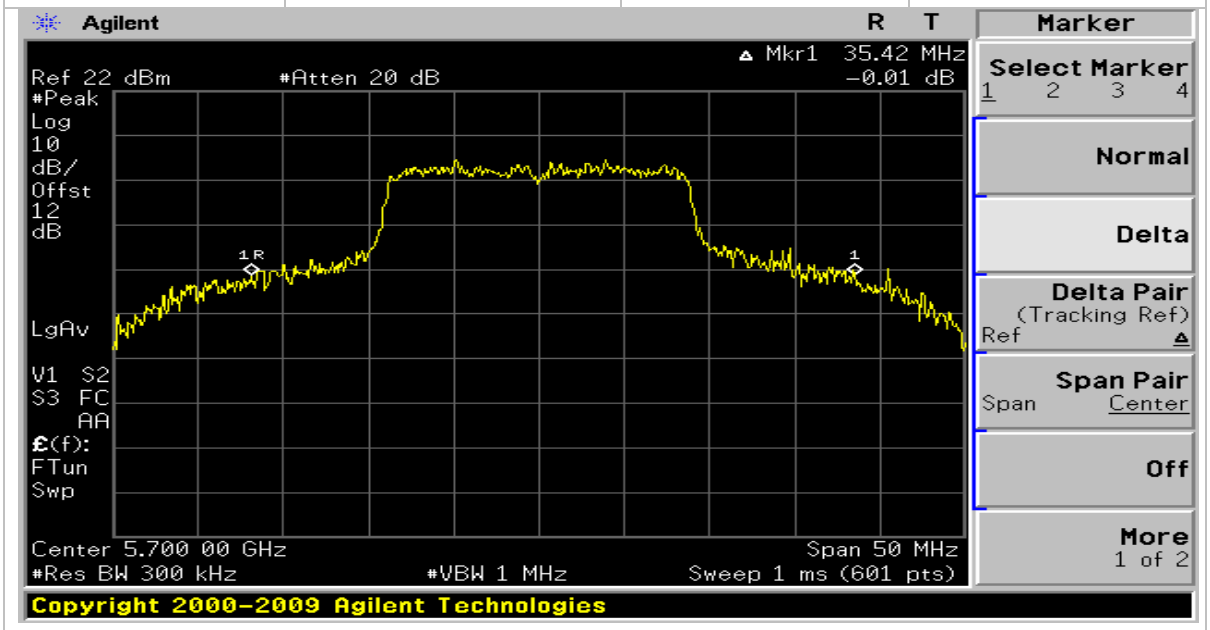
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.60 GHz	B	JC



26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide

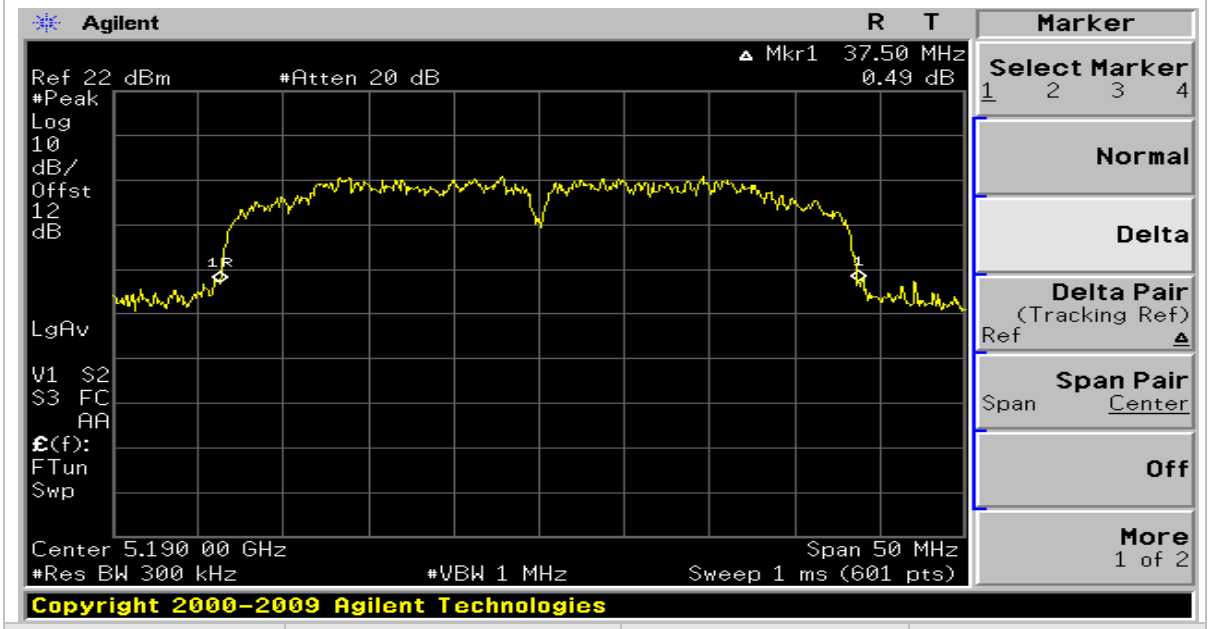
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.70 GHz	B	JC



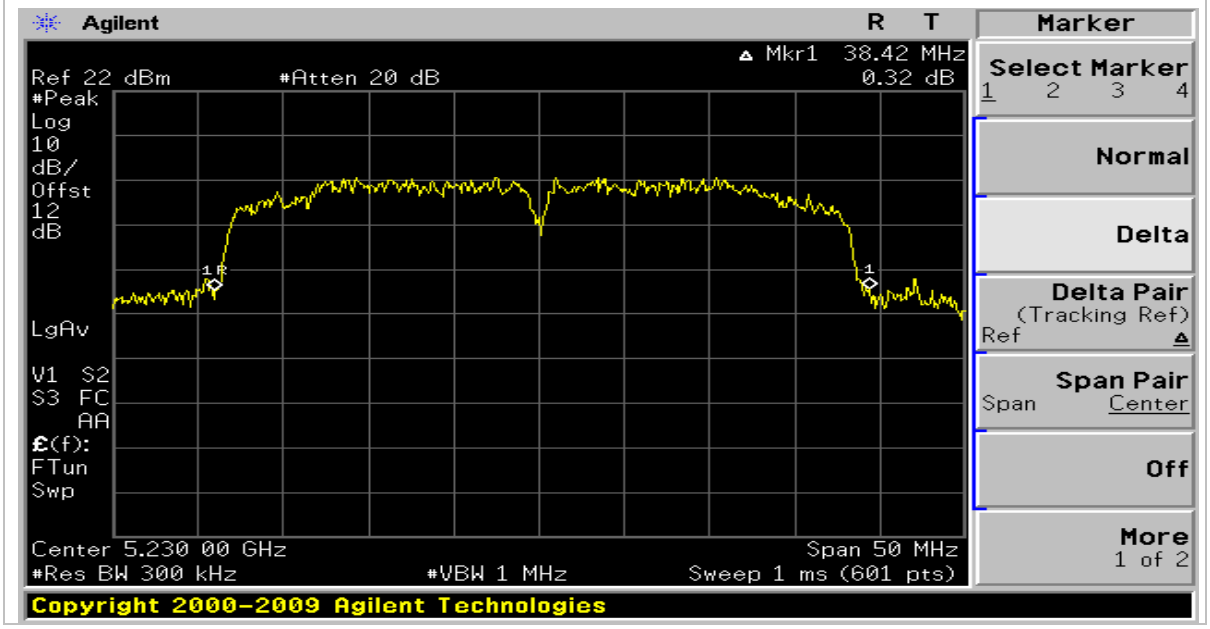
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.19 GHz	B	JC



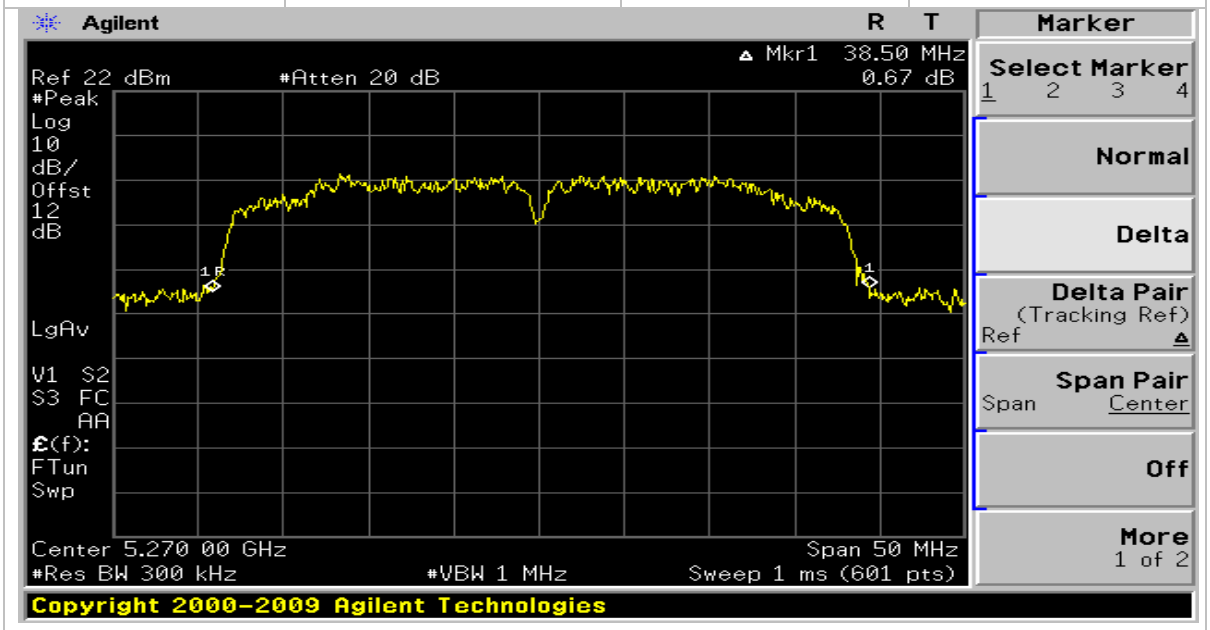
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.23 GHz	B	JC



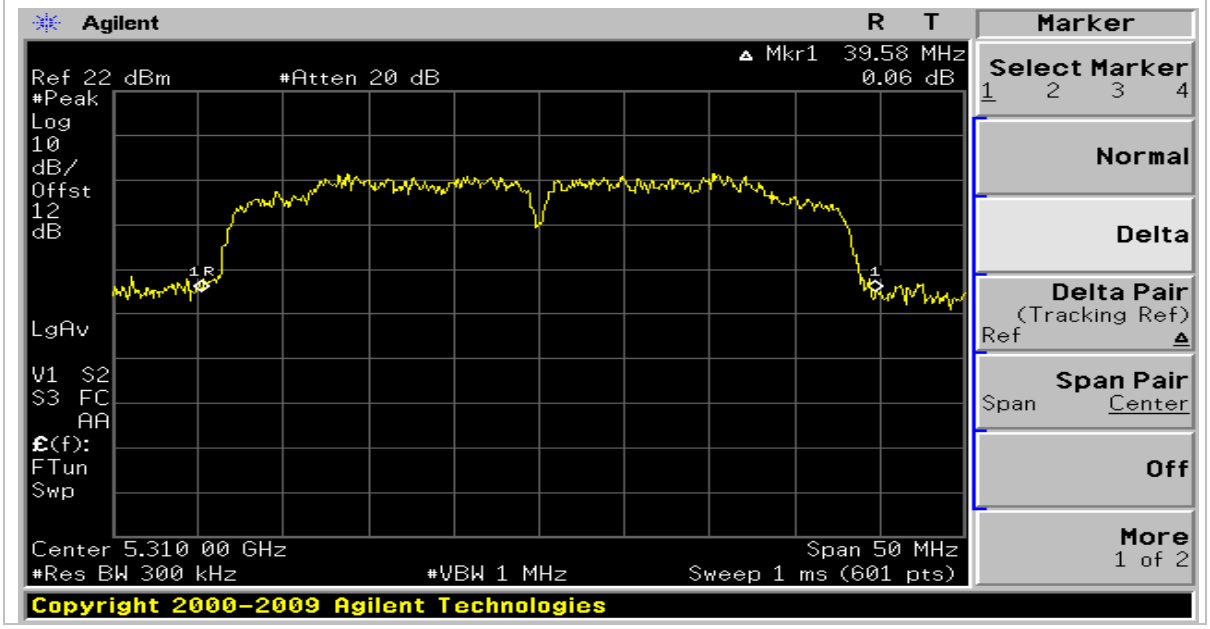
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.27 GHz	B	JC



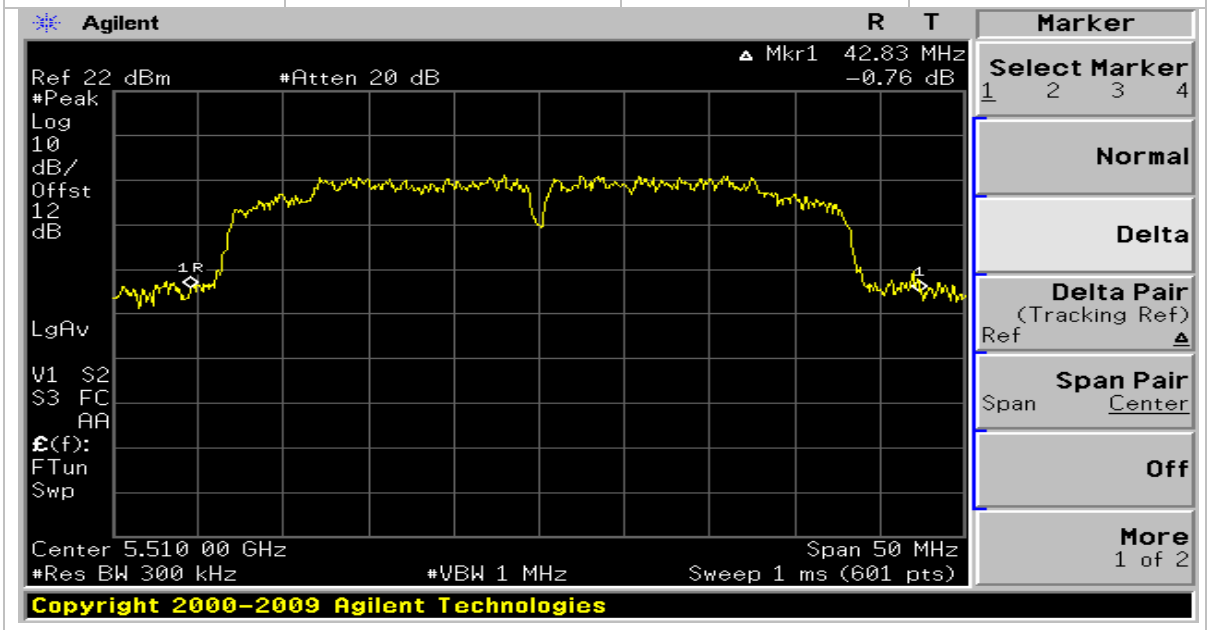
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.31 GHz	B	JC



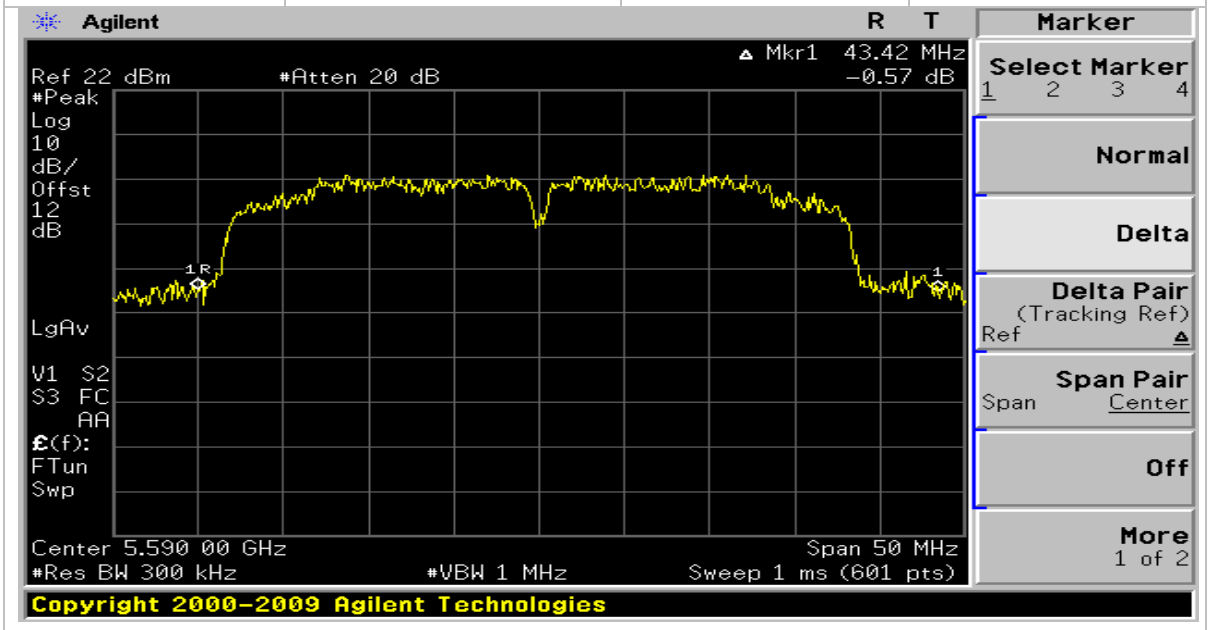
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.51 GHz	B	JC



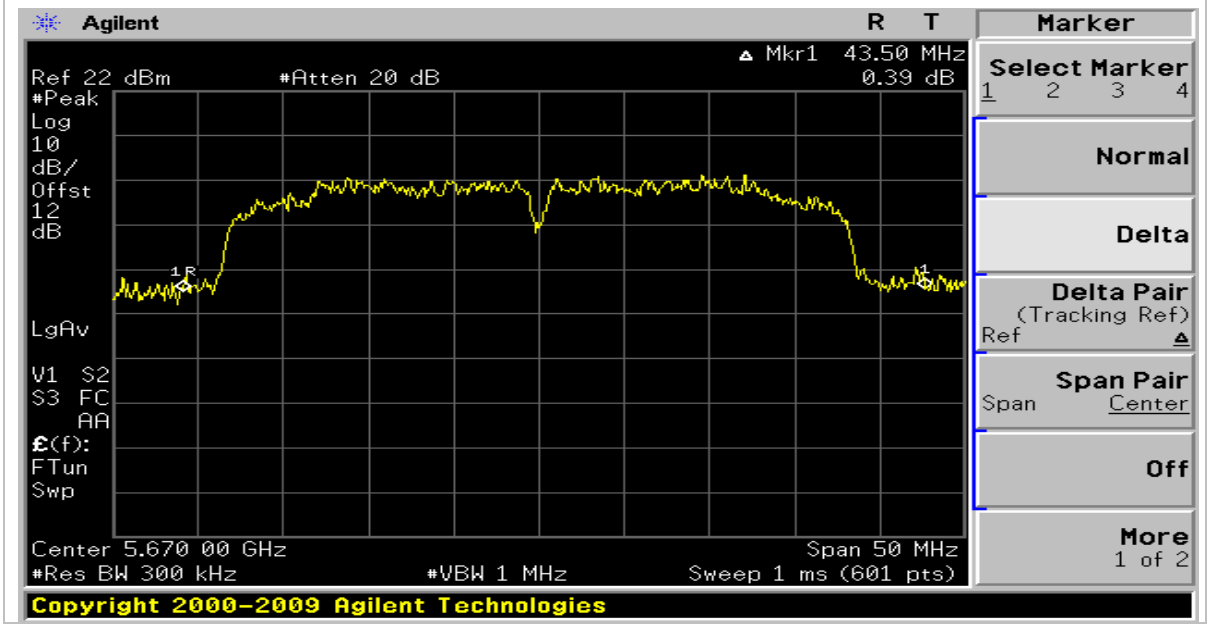
Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.59 GHz	B	JC



26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/10/09	5.67 GHz	B	JC



PEAK POWER SPECTRAL DENSITY

CLIENT:	Intel Corporation	**DATE:**	08/11/09
EUT:	Intel WiFi Link 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A70A4	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	**TEMPERATURE:**	21 deg. C
		HUMIDITY:	49% RH
		TIME:	8:30 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 & 5.47-5.725, 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. • 120VAC / 60 Hz.

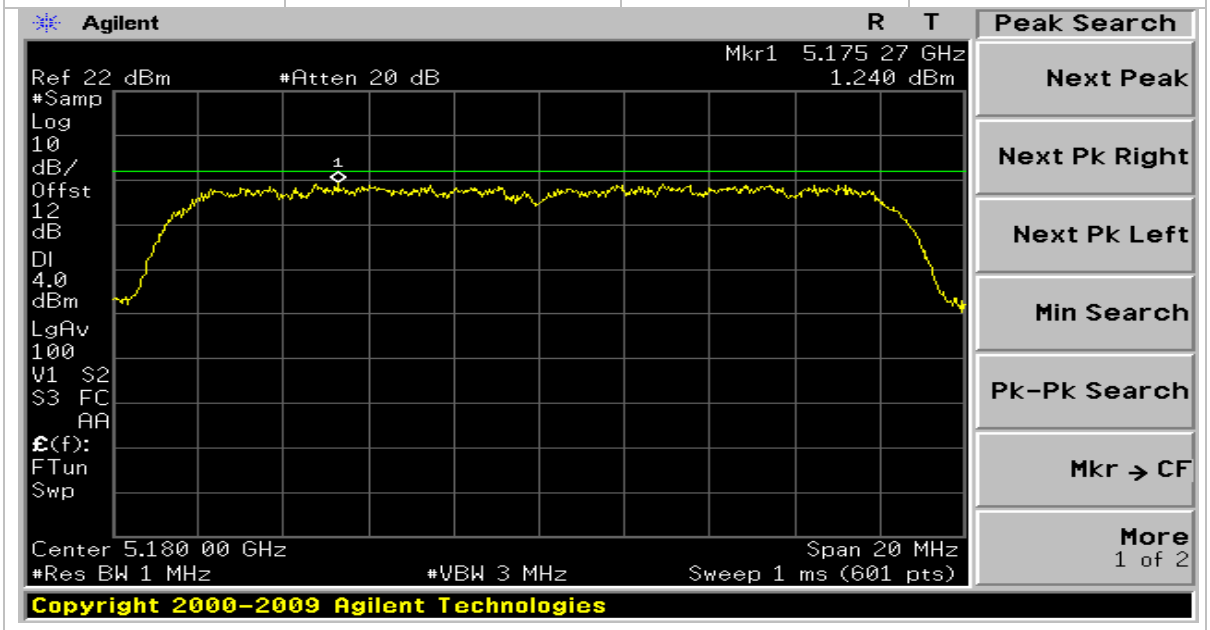
Peak Power Spectral Density Limits	
Frequency (MHz)	**Limit (dBm)**
5150-5250	4
5250-5350	11
5470-5725	11

Using "Method 2" of the FCC Public Notice (DA 02-2138) for all frequency bands

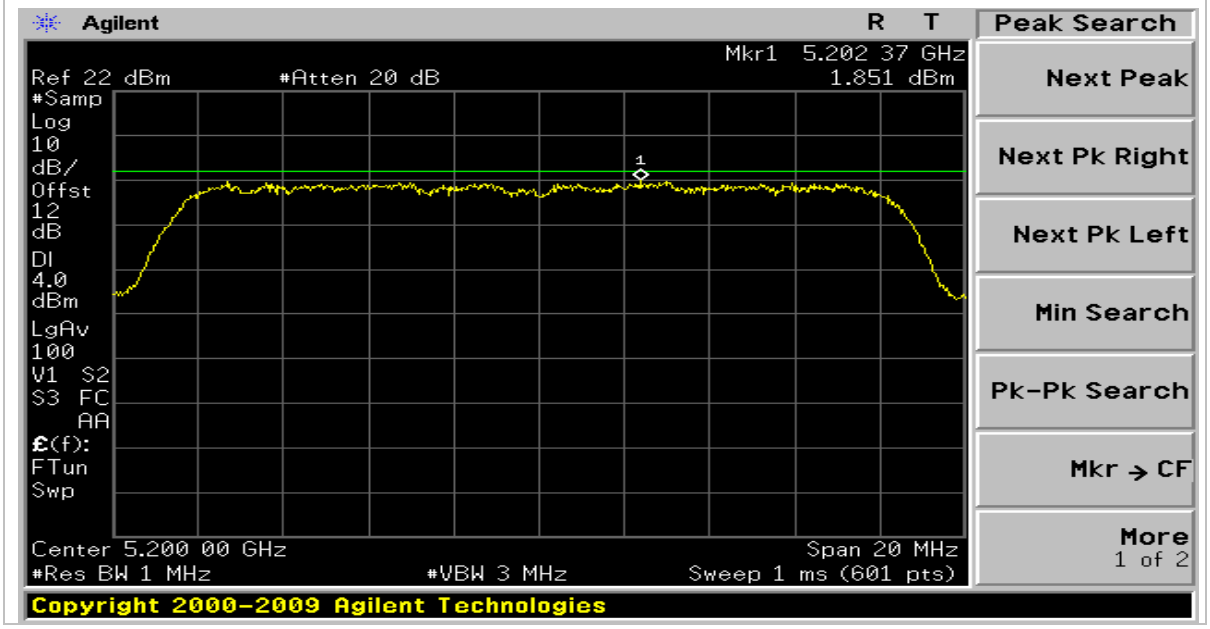
Peak Power Spectral Density (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.18 GHz	A	JC



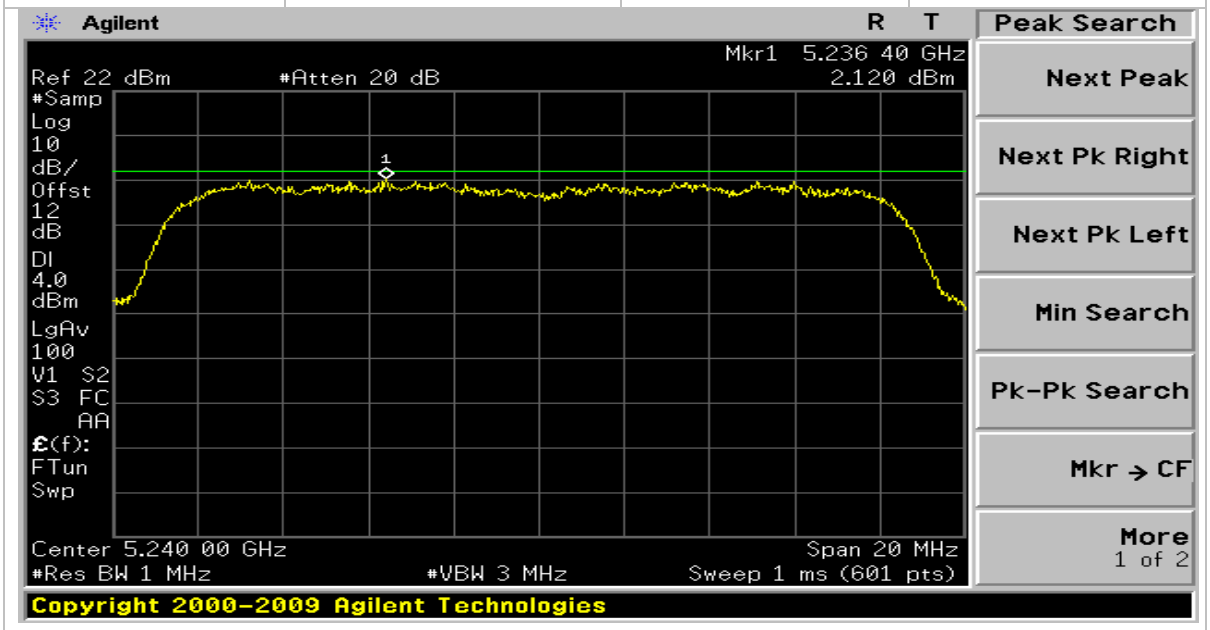
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.20 GHz	A	JC



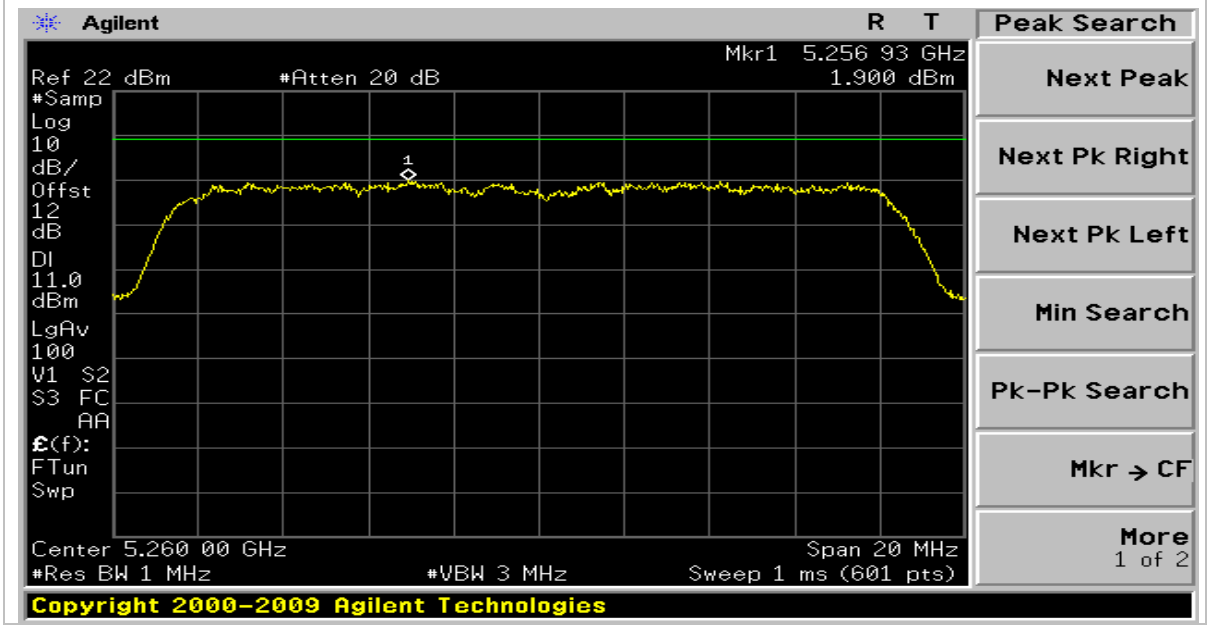
Peak Power Spectral Density (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.24 GHz	A	JC



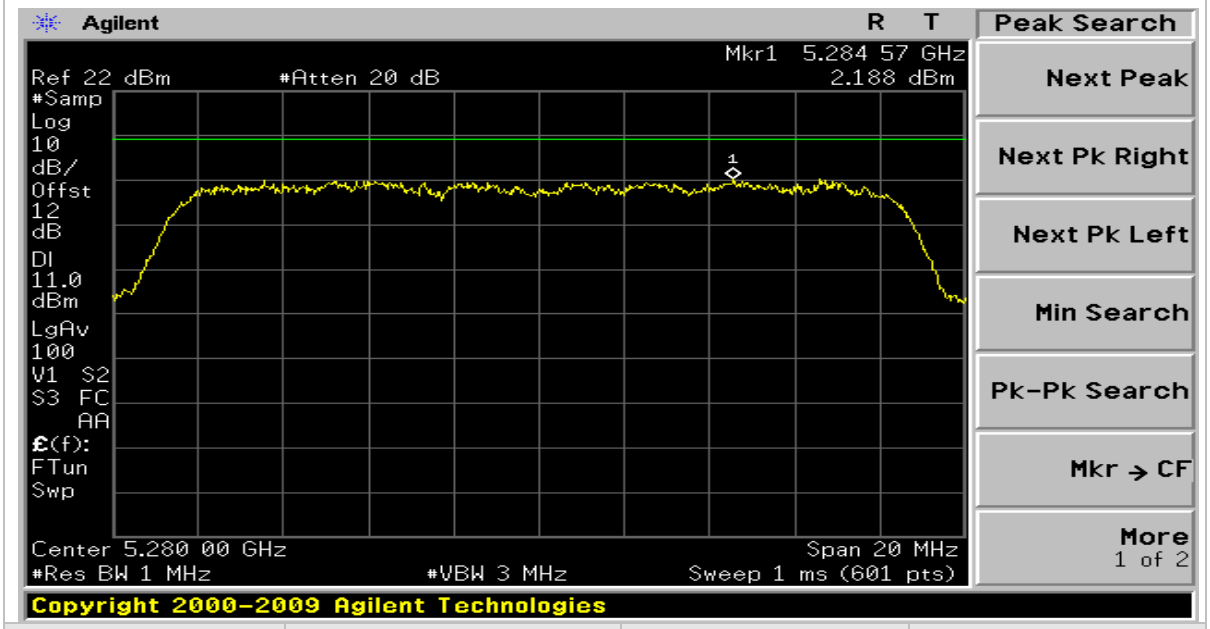
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.26 GHz	A	JC



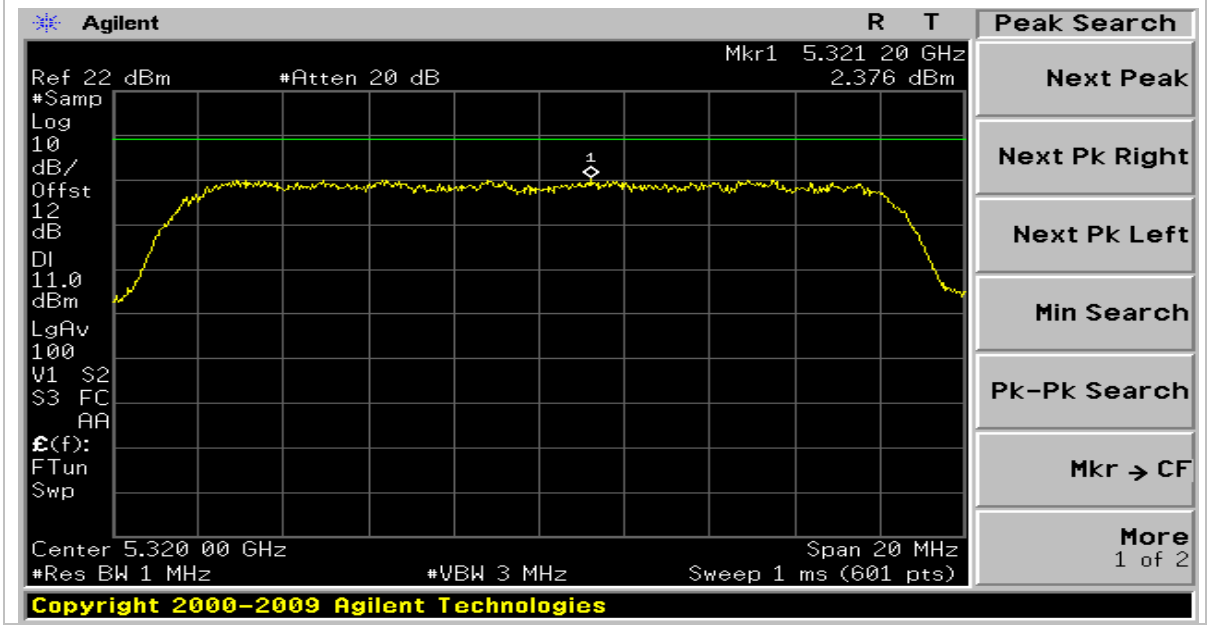
Peak Power Spectral Density (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.28 GHz	A	JC



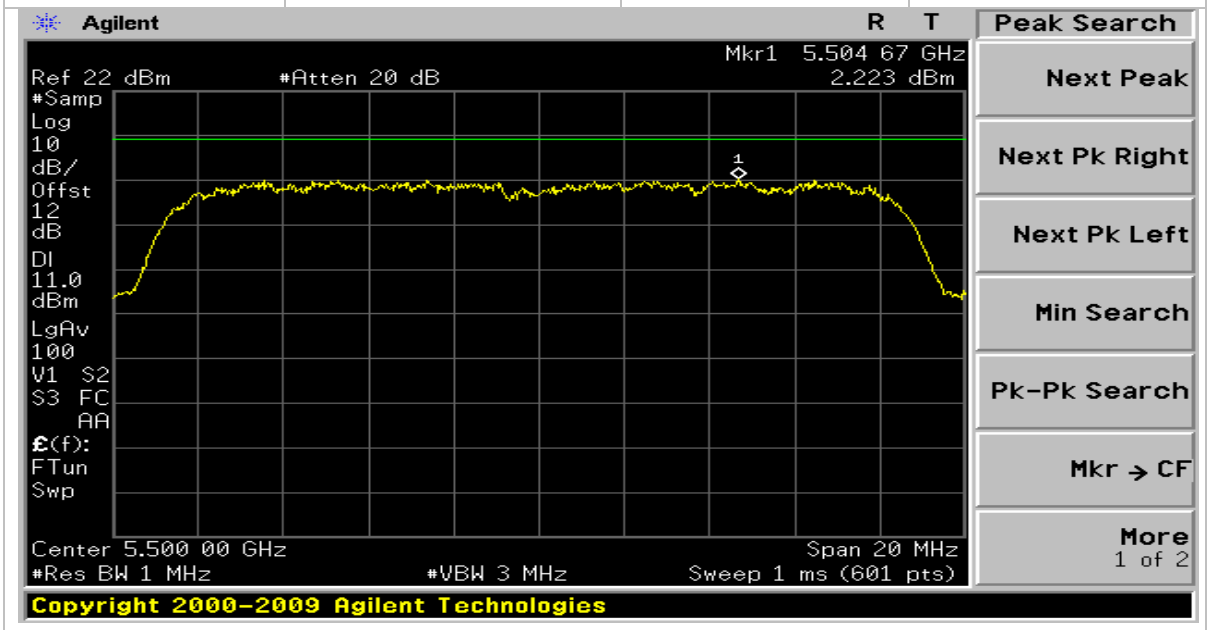
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.32 GHz	A	JC



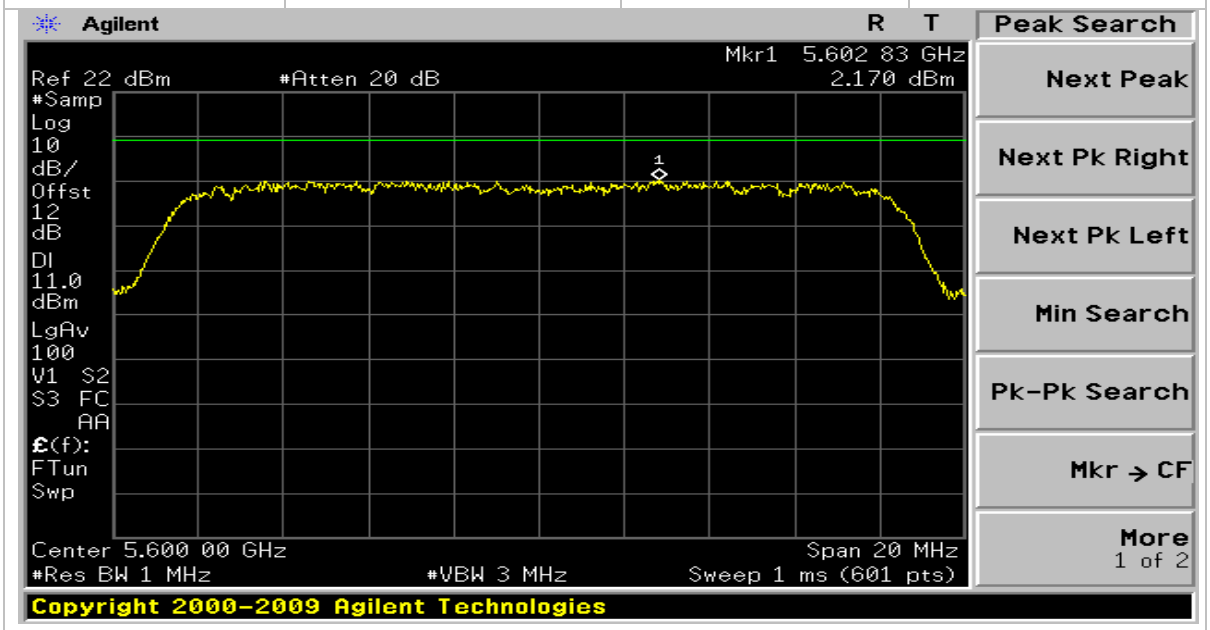
Peak Power Spectral Density (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.50 GHz	A	JC



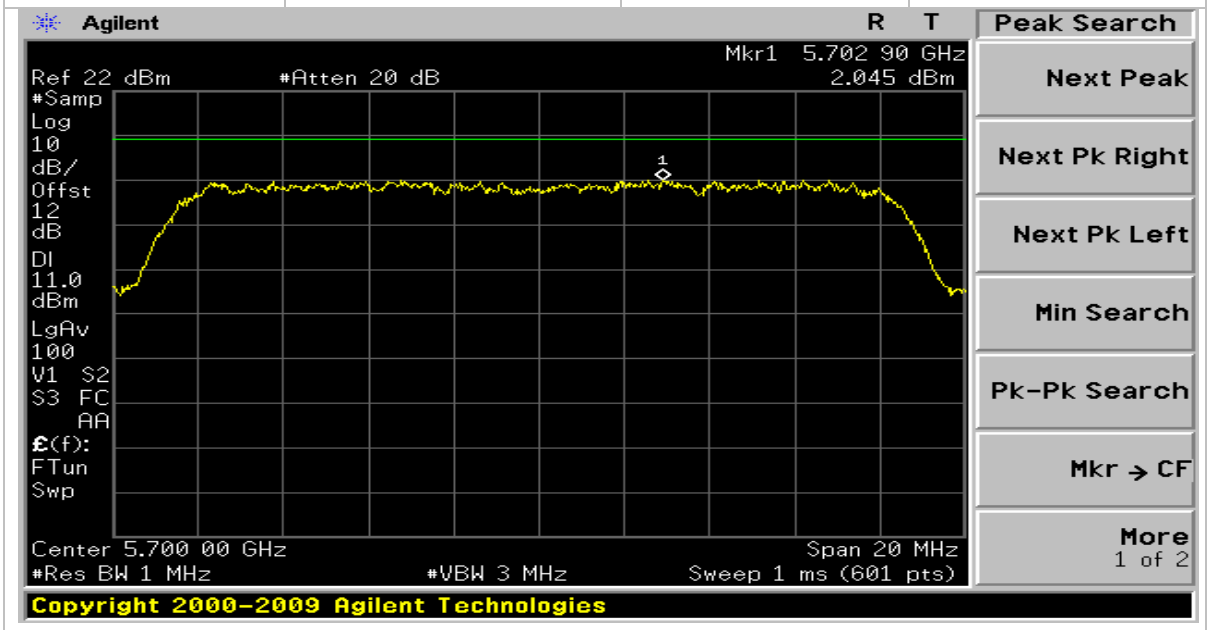
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.60 GHz	A	JC



Peak Power Spectral Density (Continued)

802.11a Mode

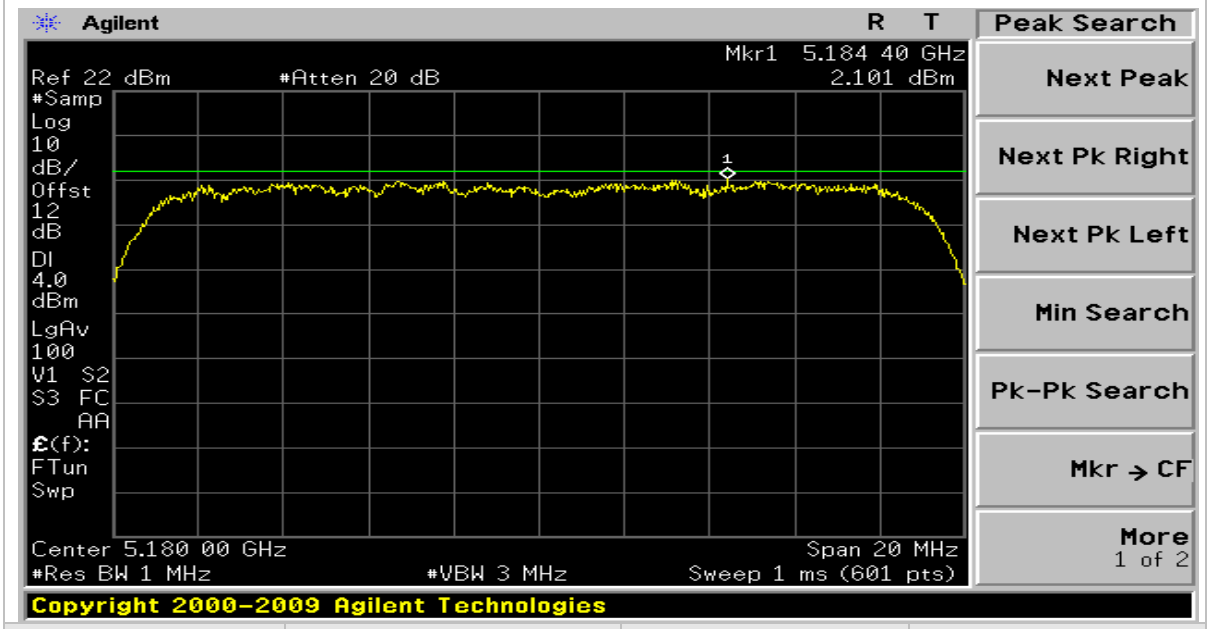
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.70 GHz	A	JC



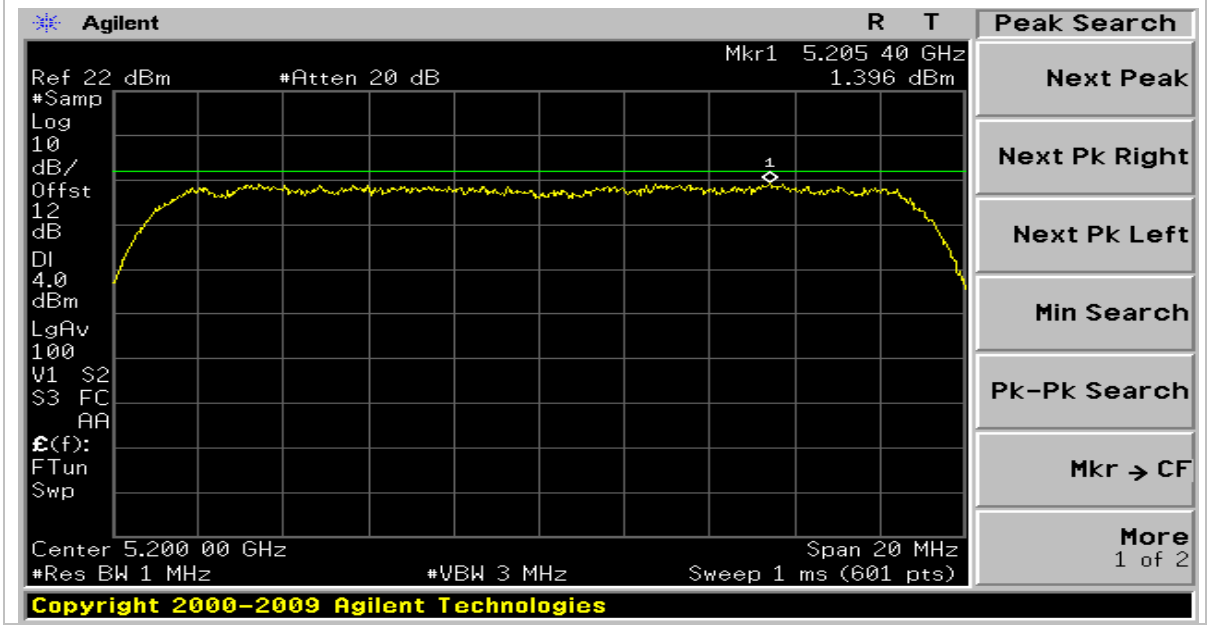
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.18 GHz	A	JC



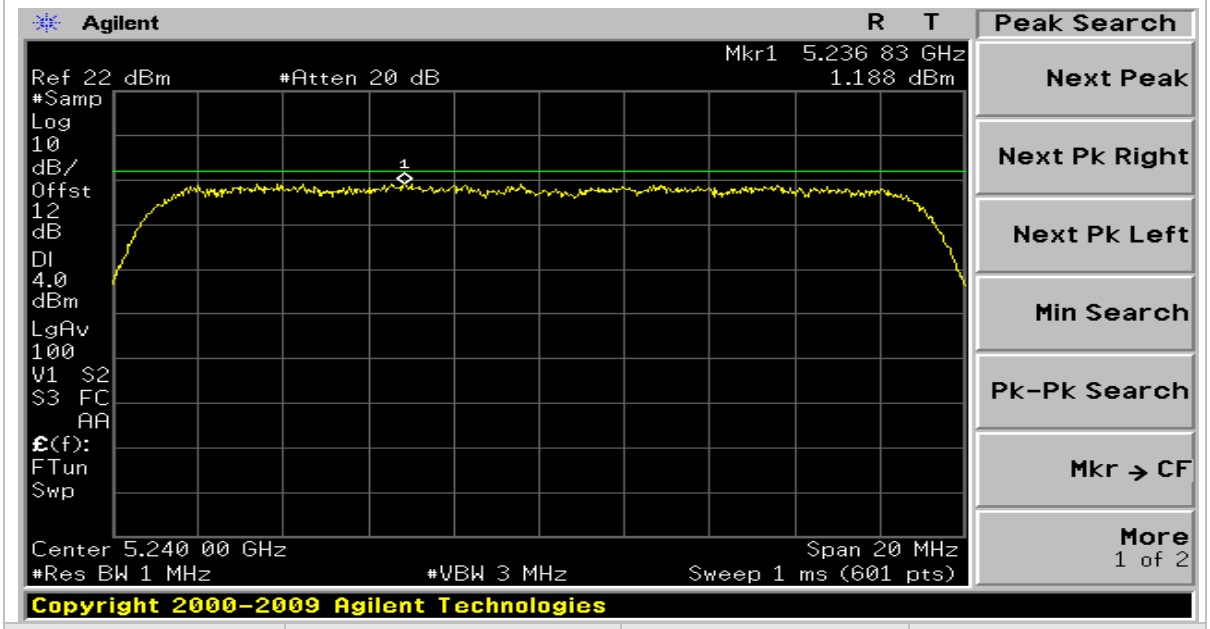
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.20 GHz	A	JC



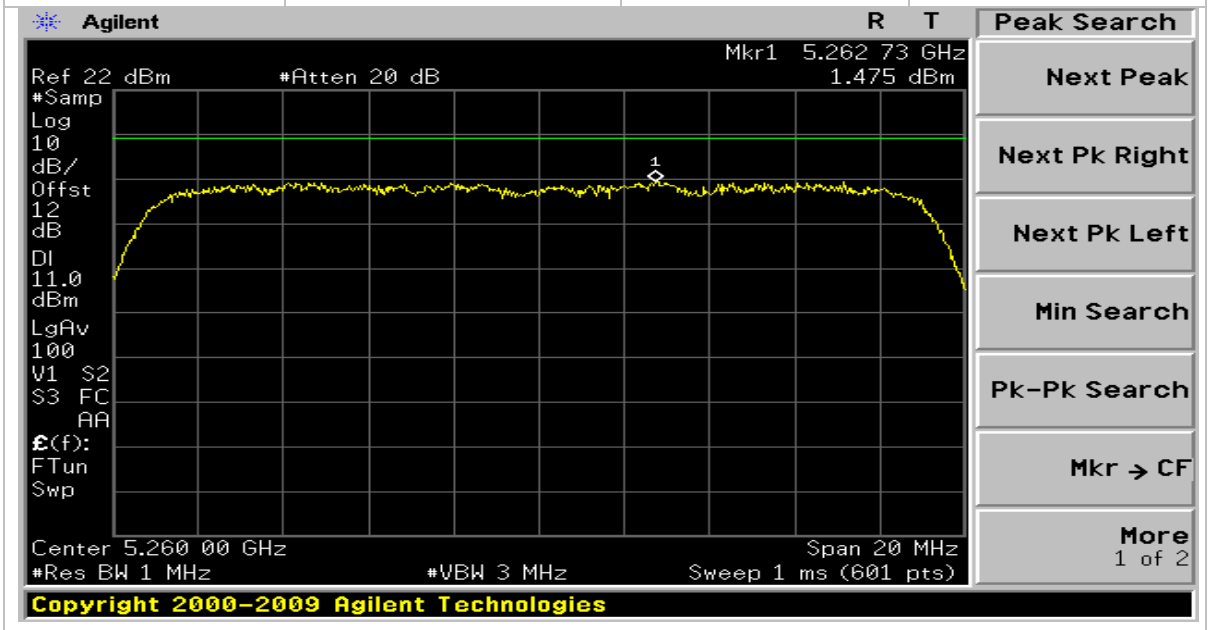
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.24 GHz	A	JC



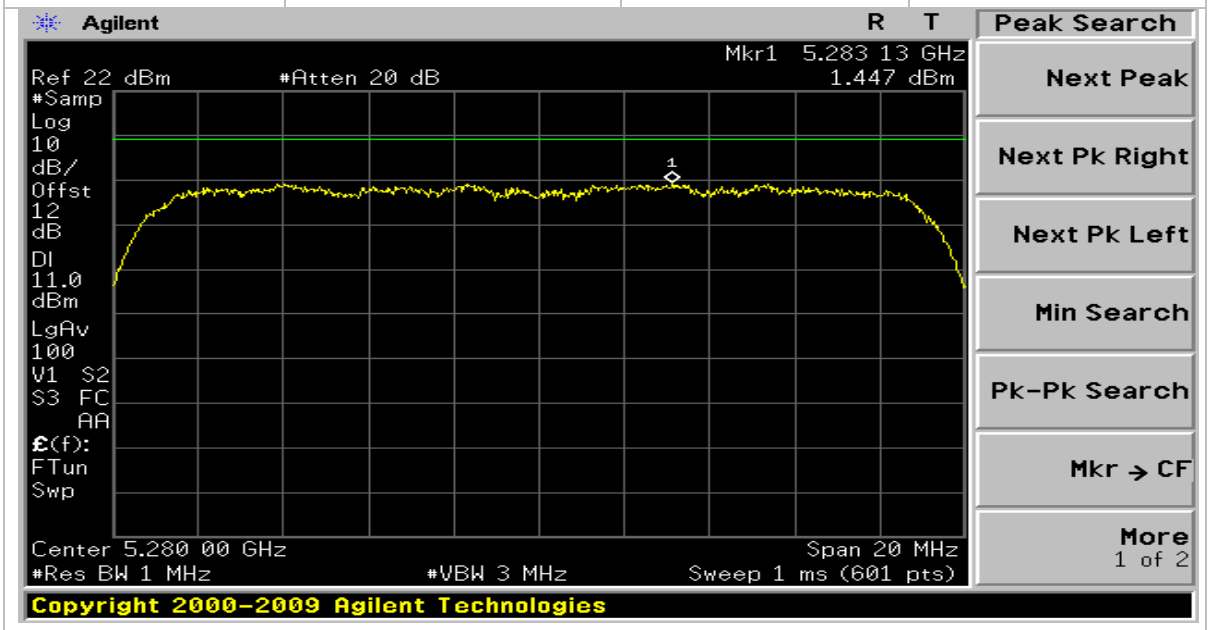
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.26 GHz	A	JC



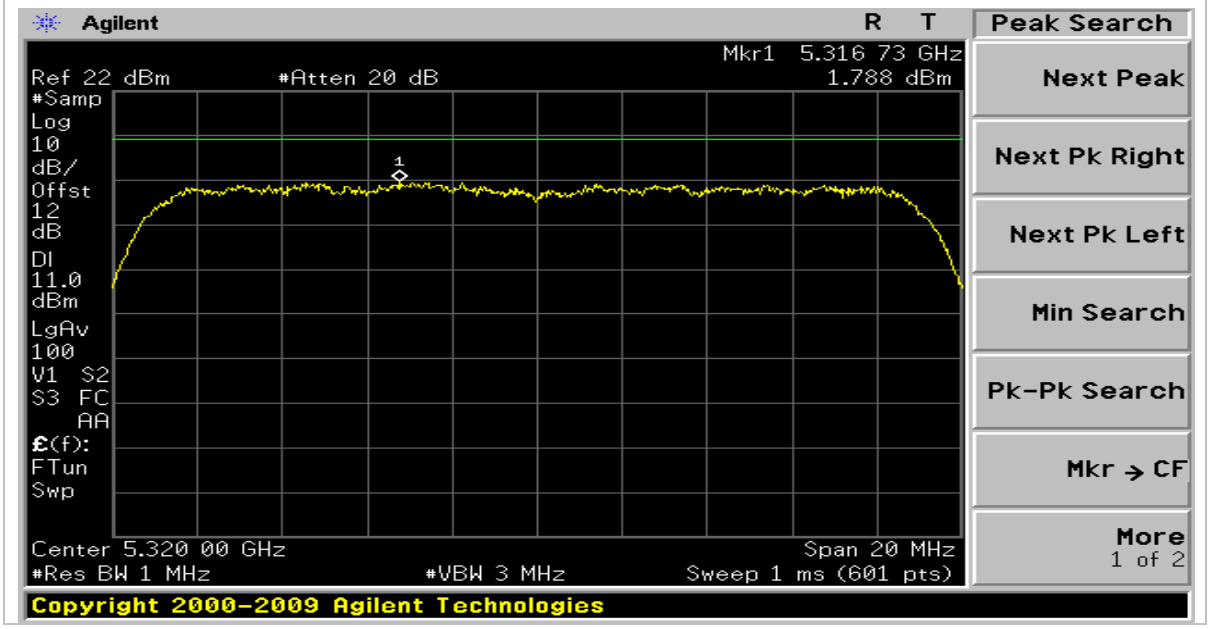
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.28 GHz	A	JC



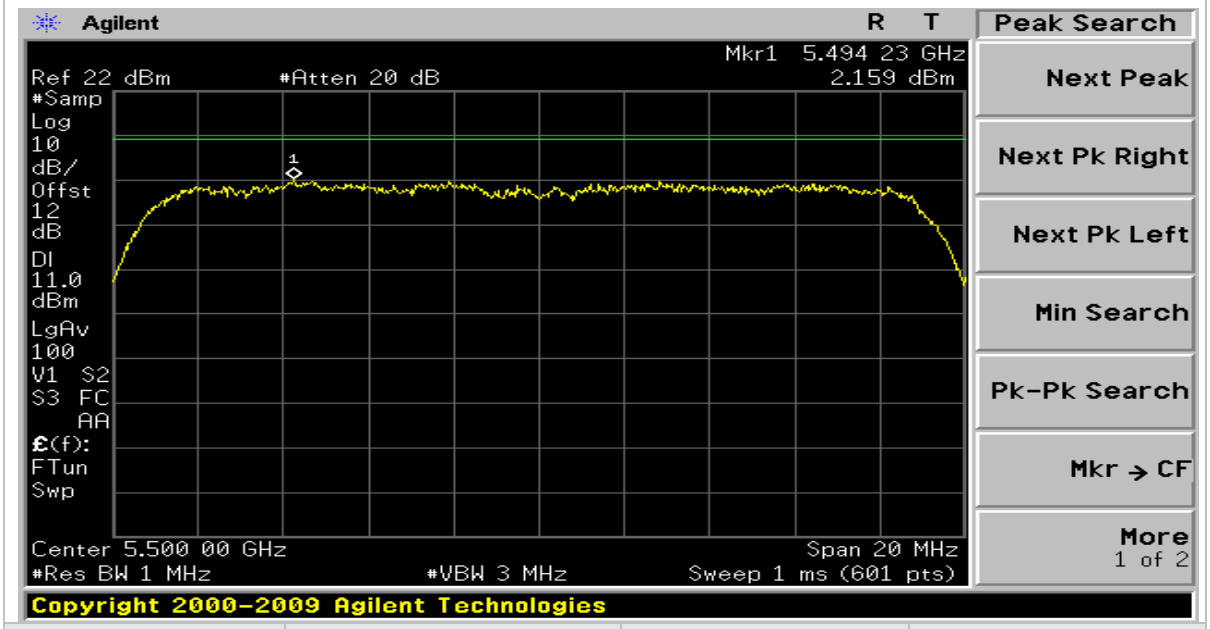
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.32 GHz	A	JC



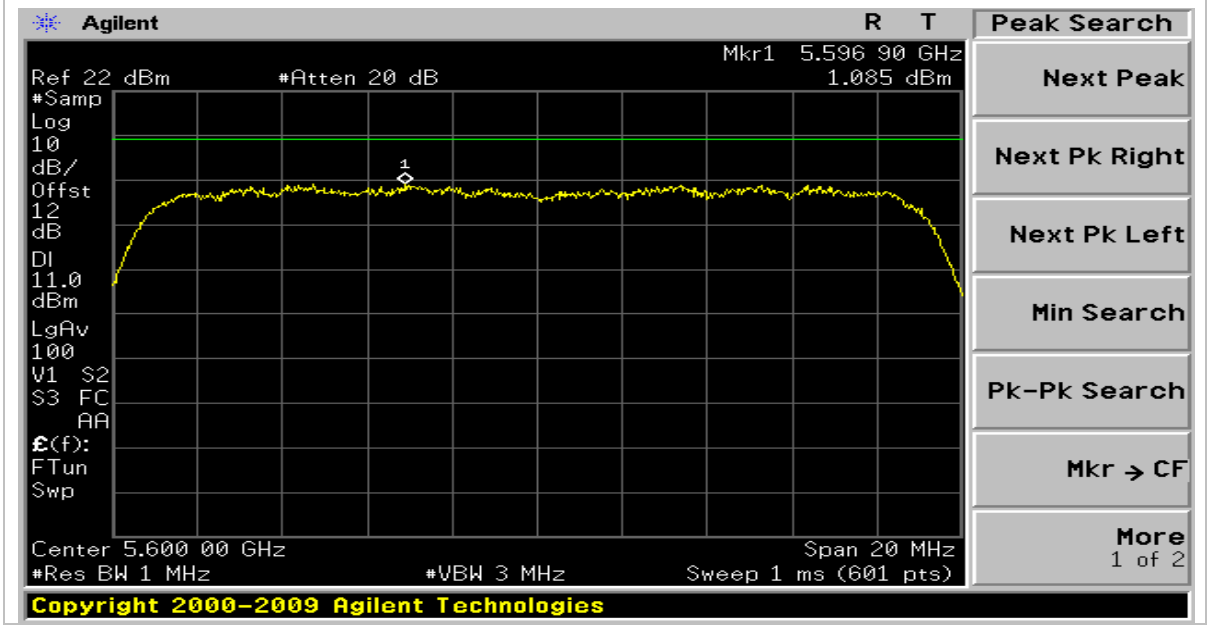
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.50 GHz	A	JC



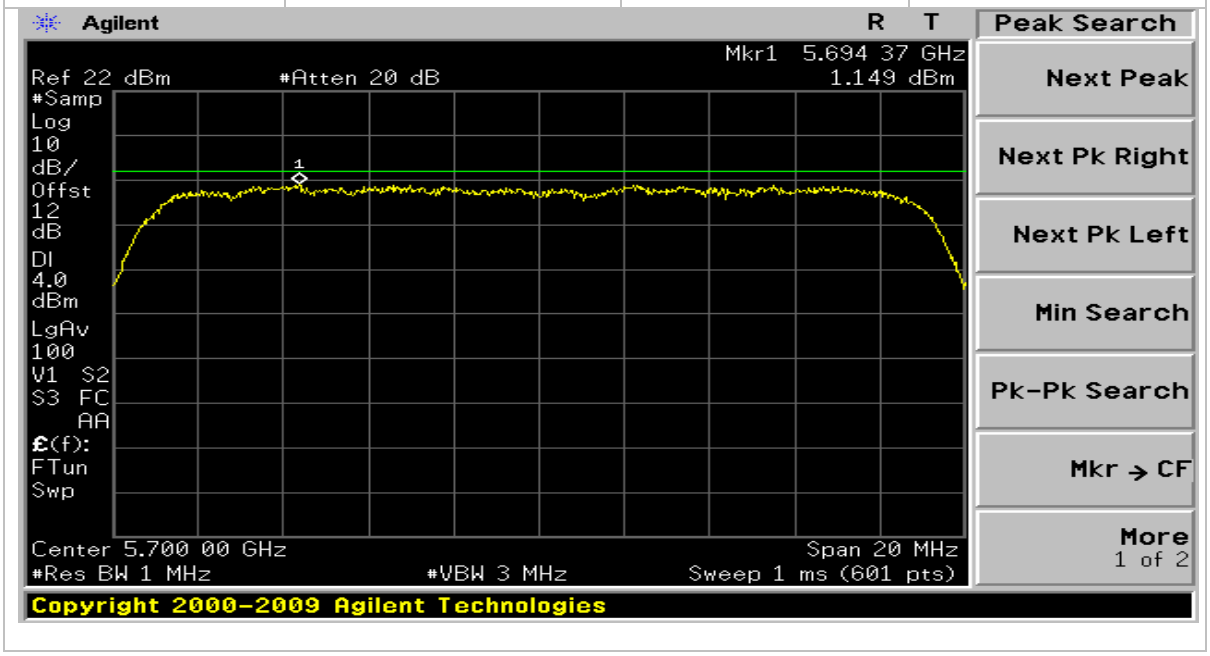
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.60 GHz	A	JC



Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide

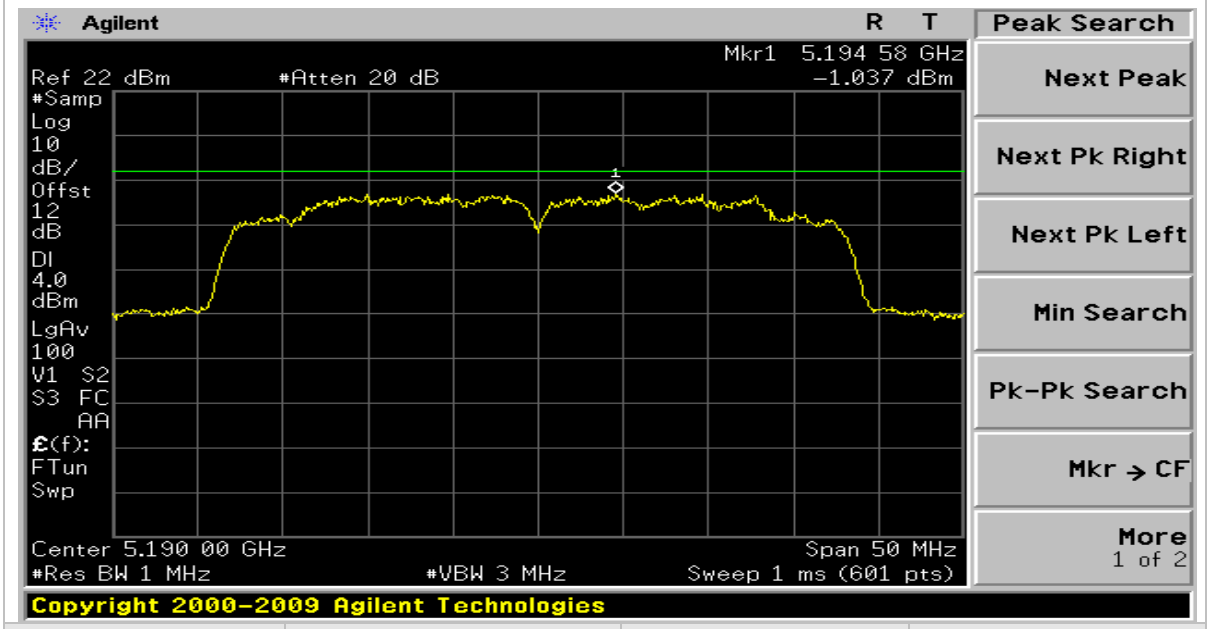
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.70 GHz	A	JC



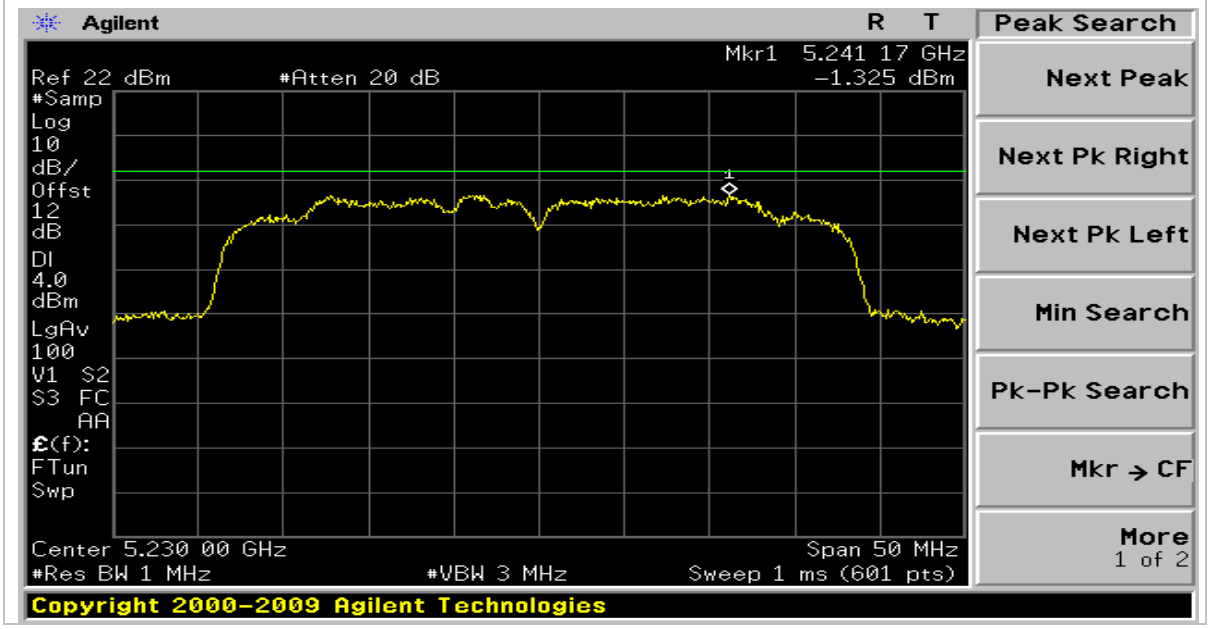
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.19 GHz	A	JC



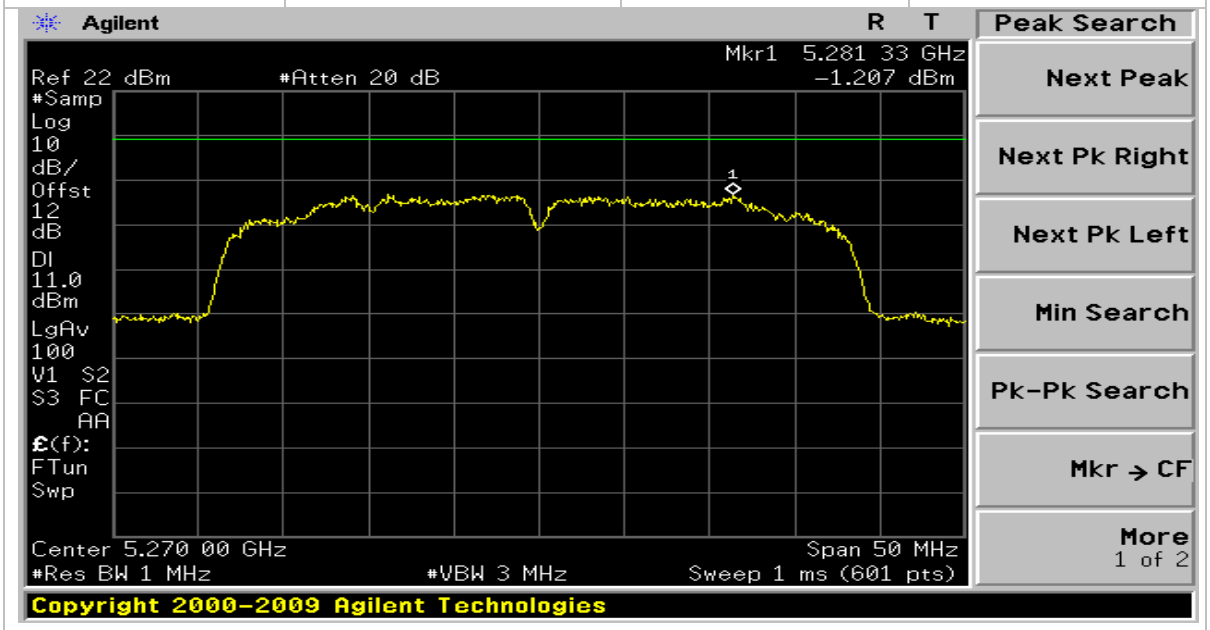
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.23 GHz	A	JC



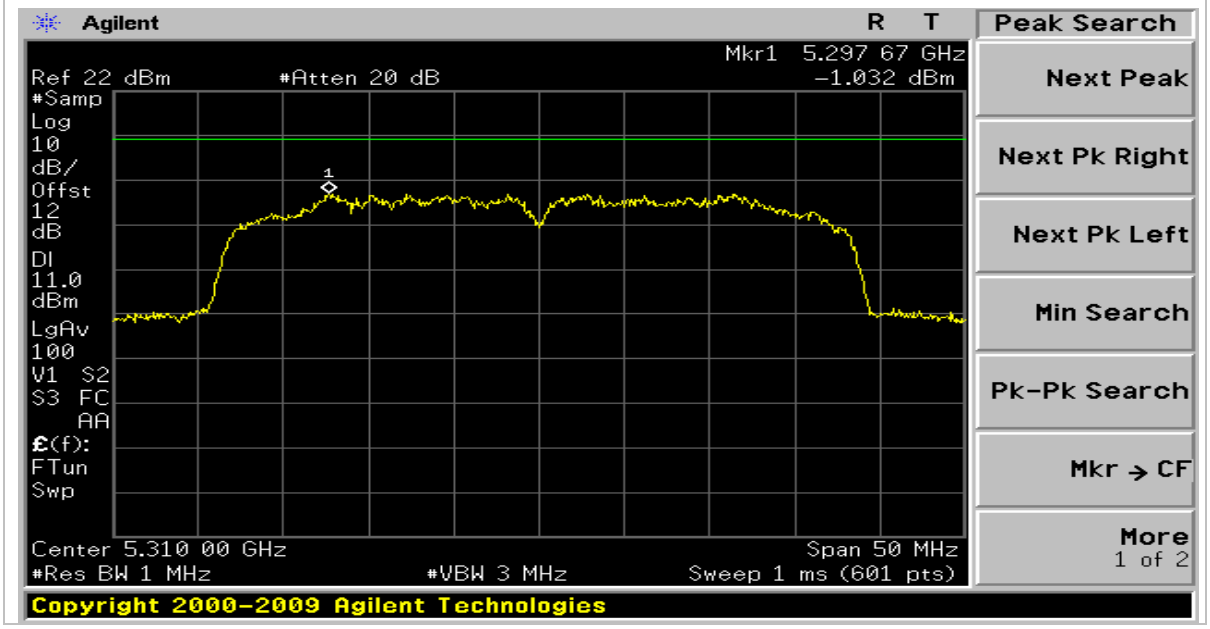
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.27 GHz	A	JC



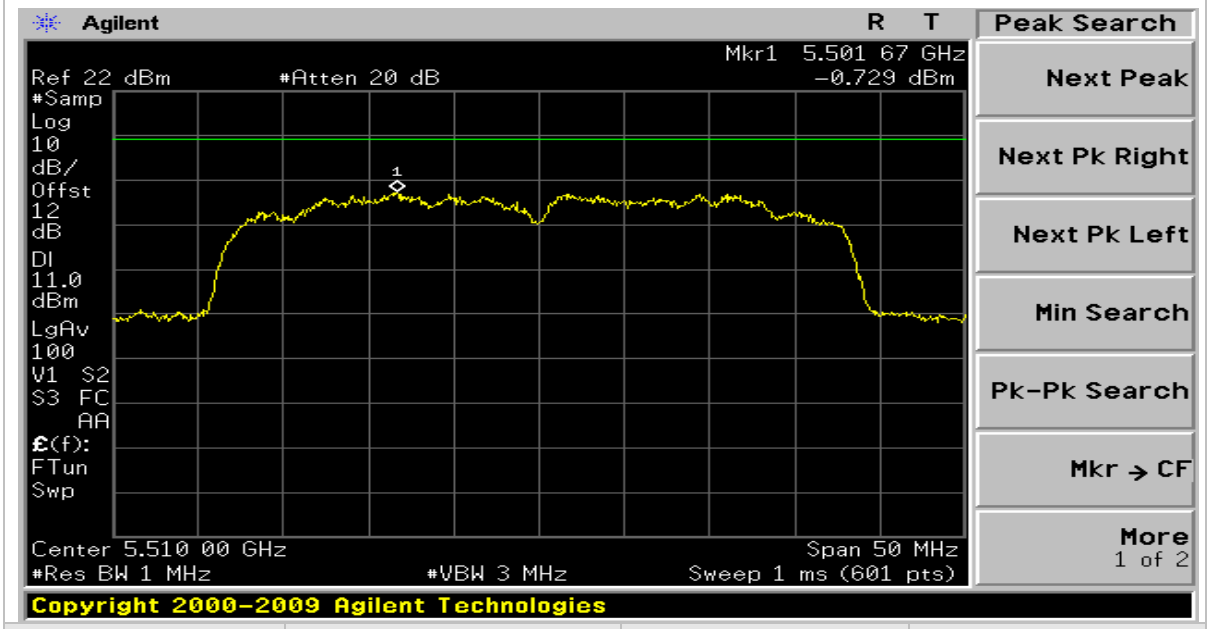
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.31 GHz	A	JC



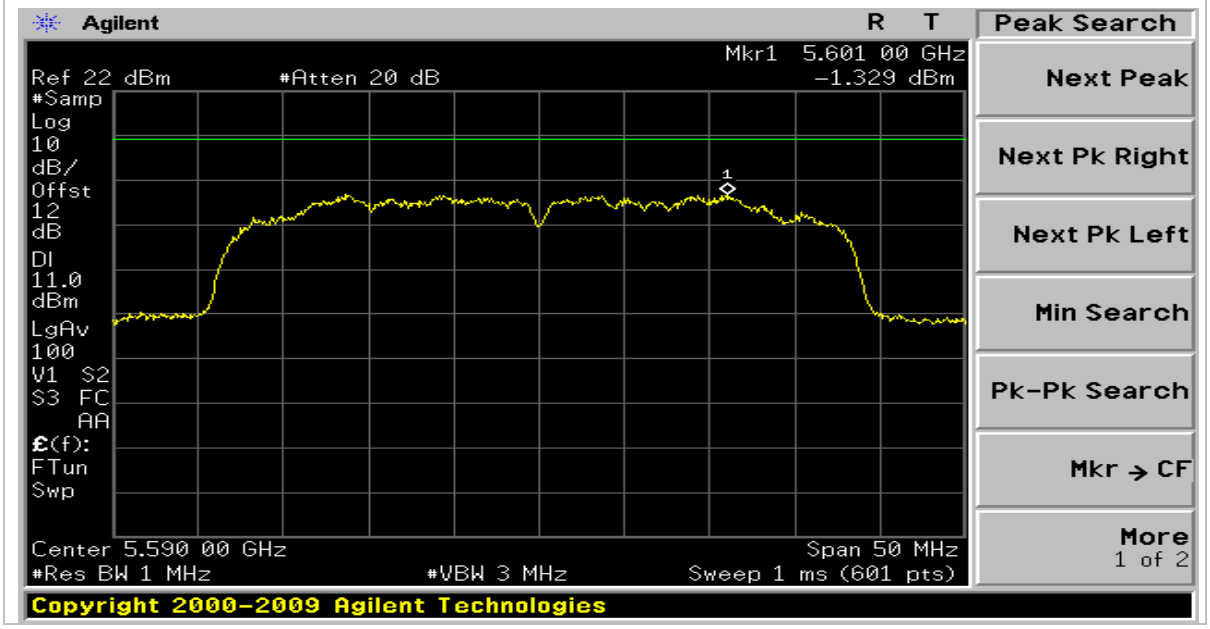
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.51 GHz	A	JC



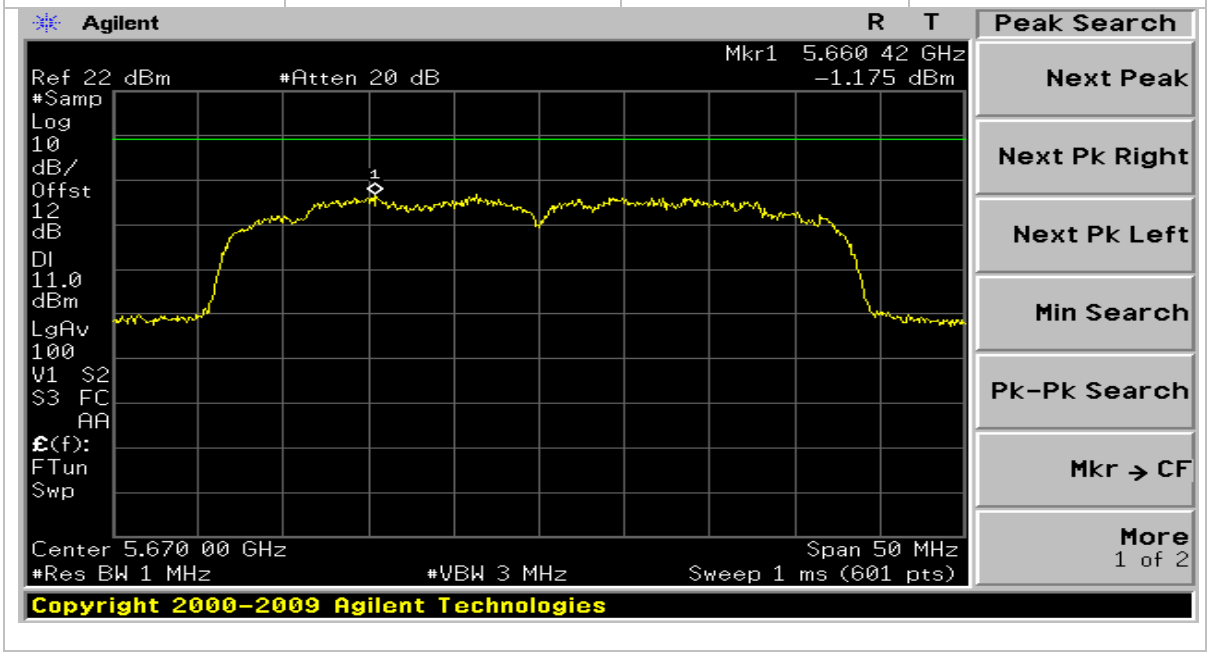
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.59 GHz	A	JC



Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide

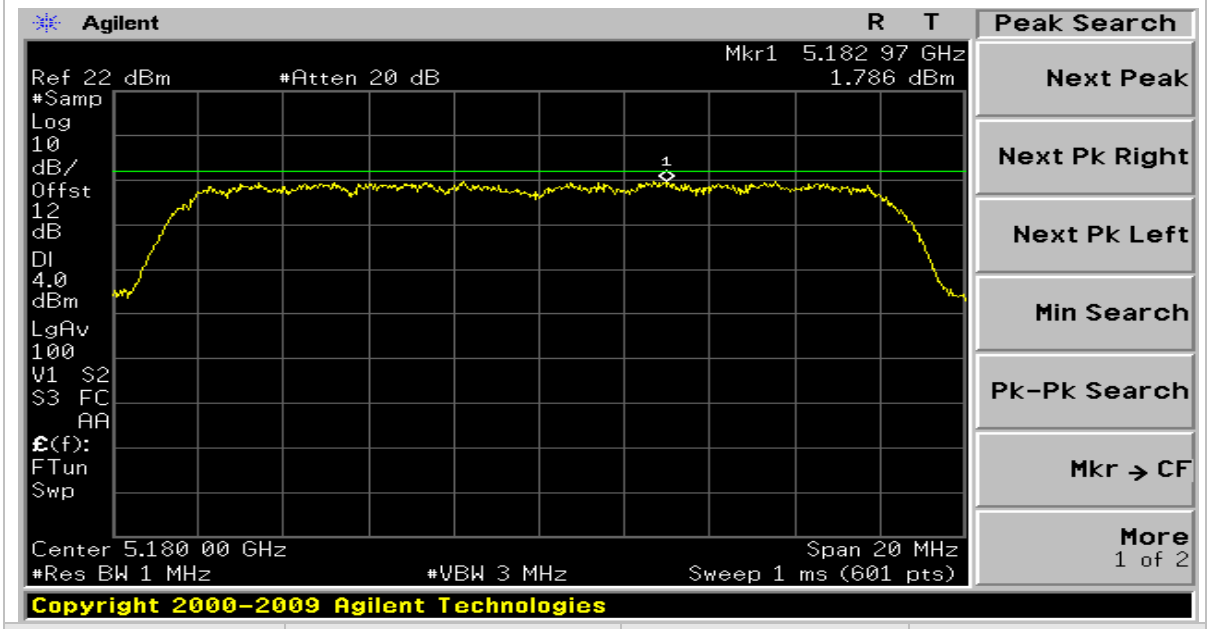
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.67 GHz	A	JC



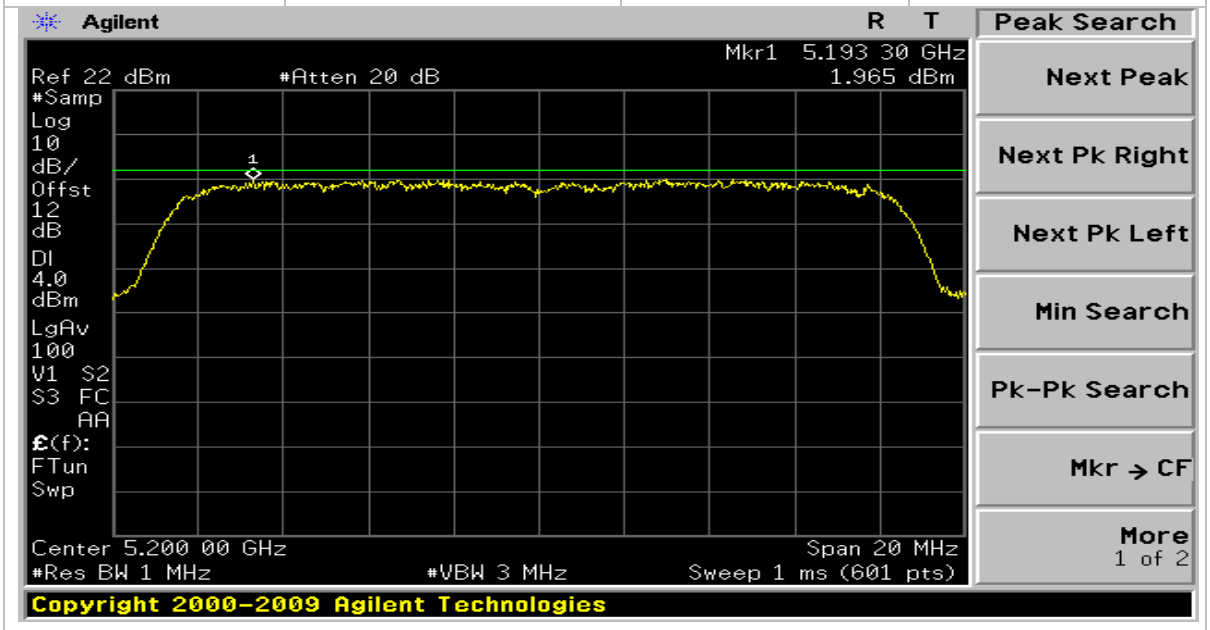
Peak Power Spectral Density (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.18 GHz	B	JC



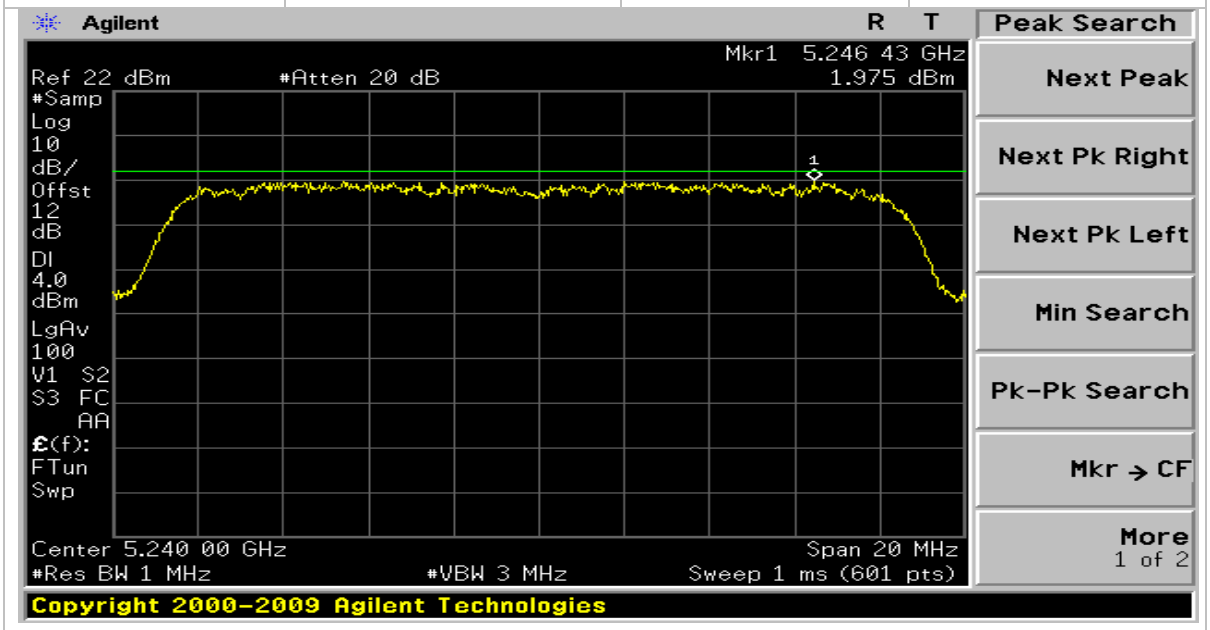
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.20 GHz	B	JC



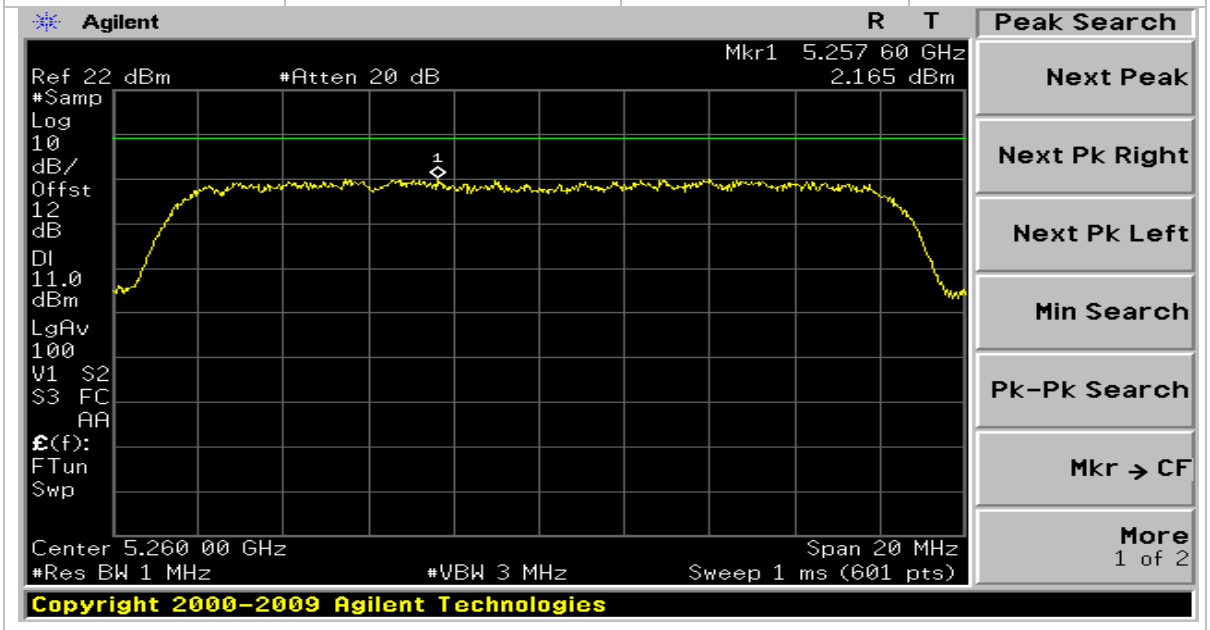
Peak Power Spectral Density (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.24 GHz	B	JC



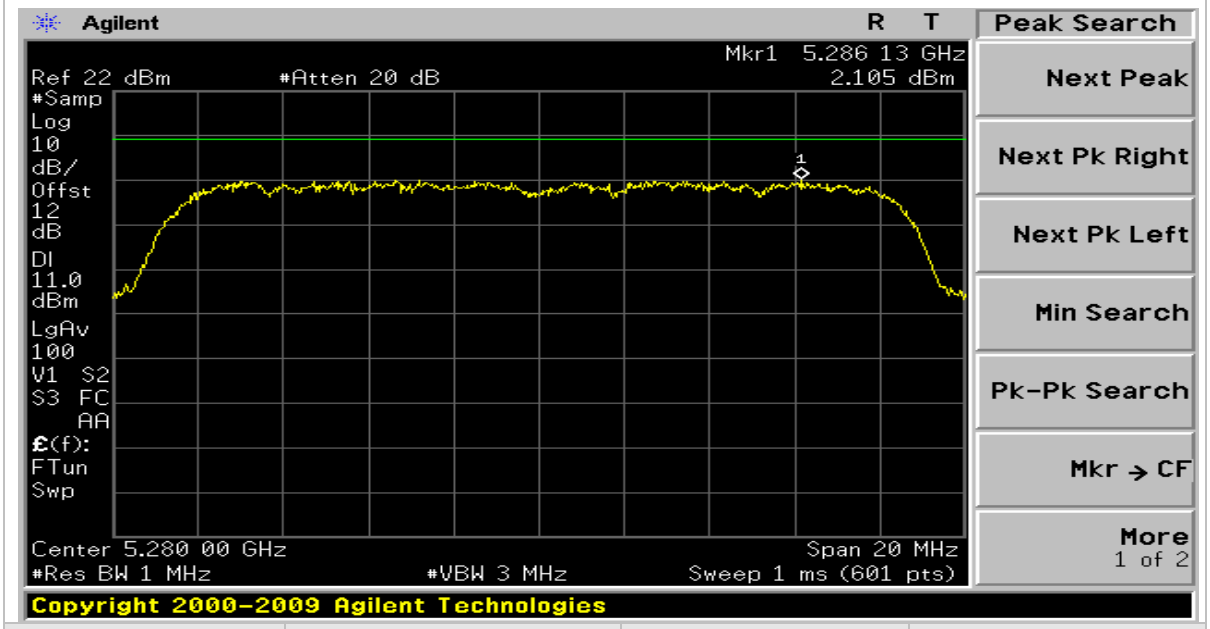
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.26 GHz	B	JC



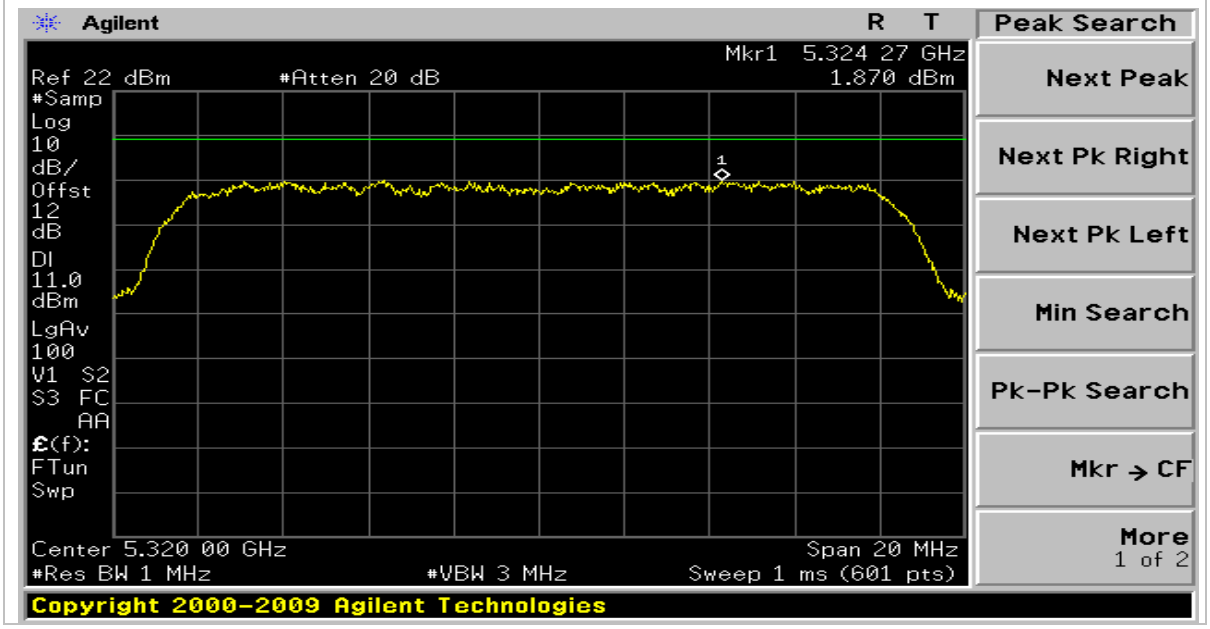
Peak Power Spectral Density (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.28 GHz	B	JC



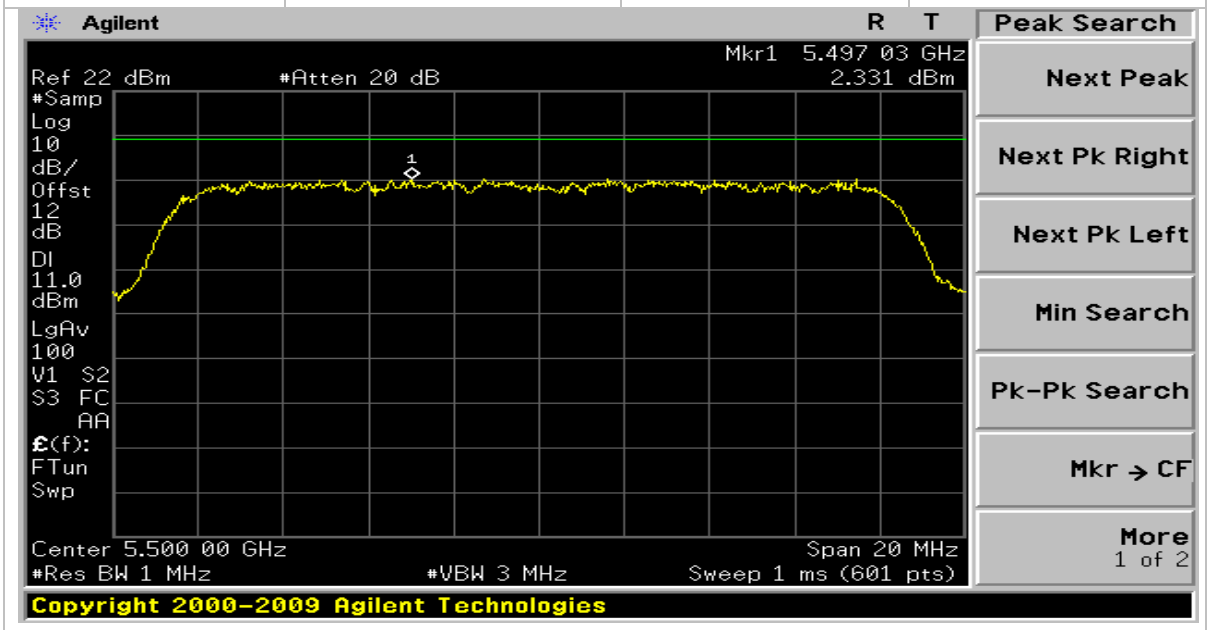
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.32 GHz	B	JC



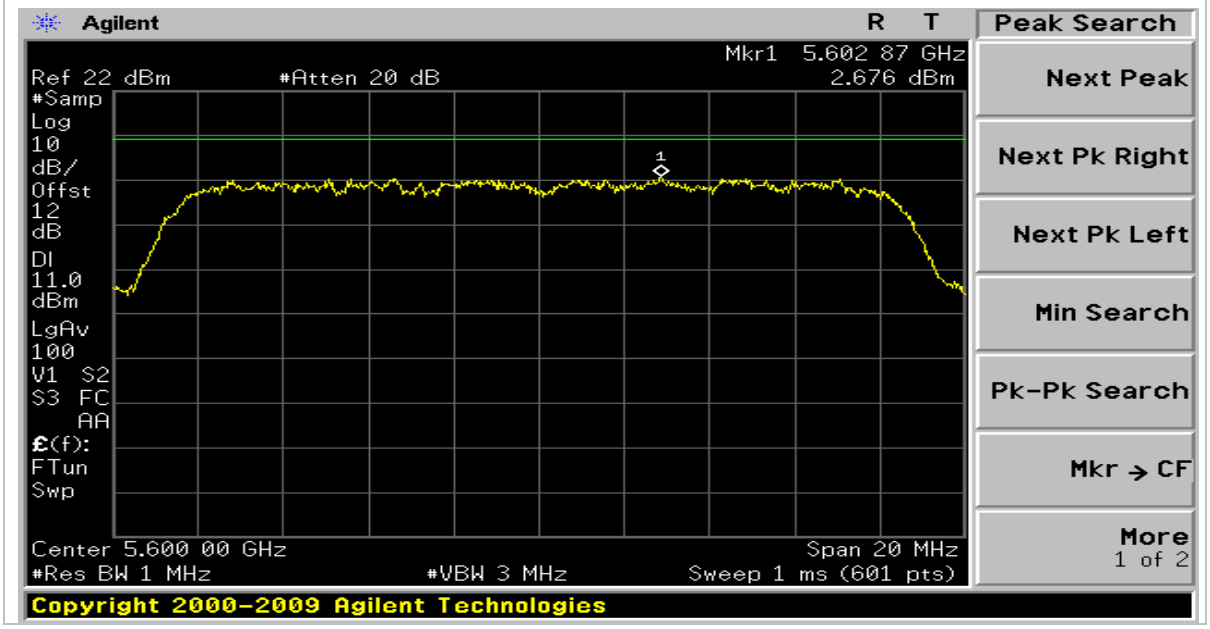
Peak Power Spectral Density (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.50 GHz	B	JC



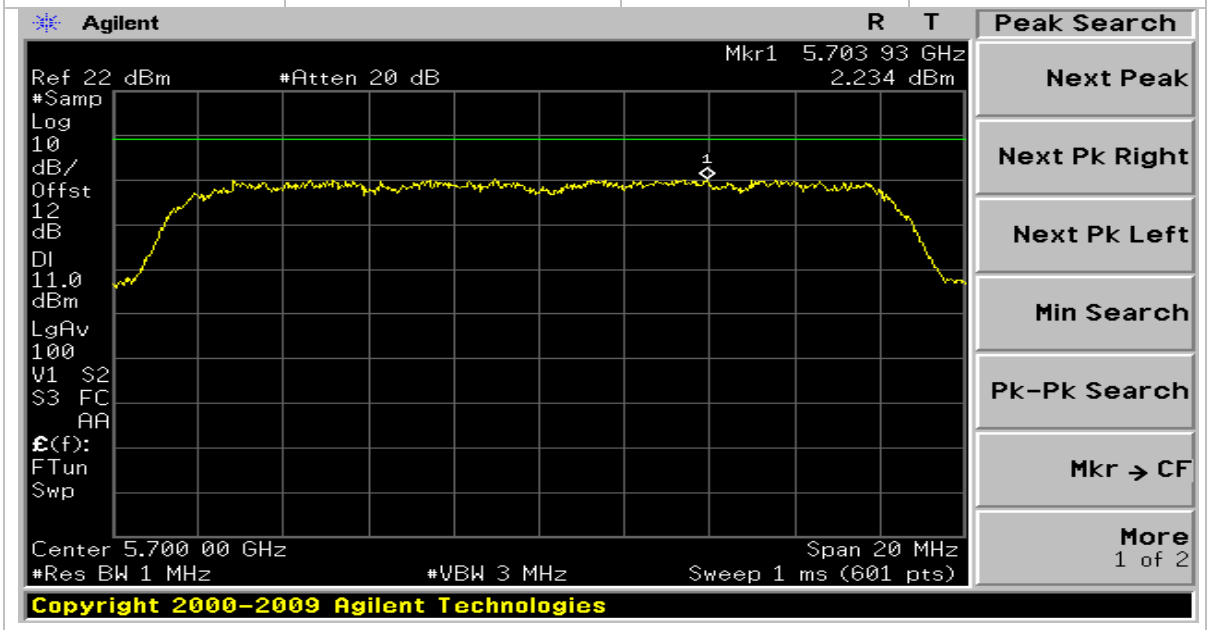
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.60 GHz	B	JC



Peak Power Spectral Density (Continued)

802.11a Mode

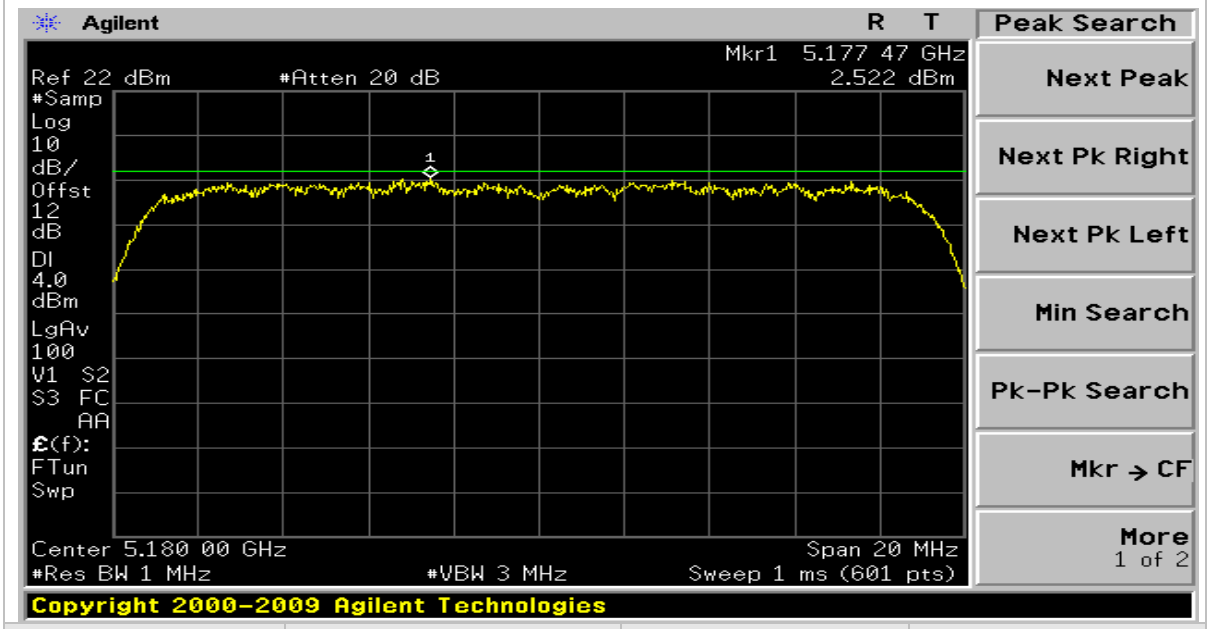
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.70 GHz	B	JC



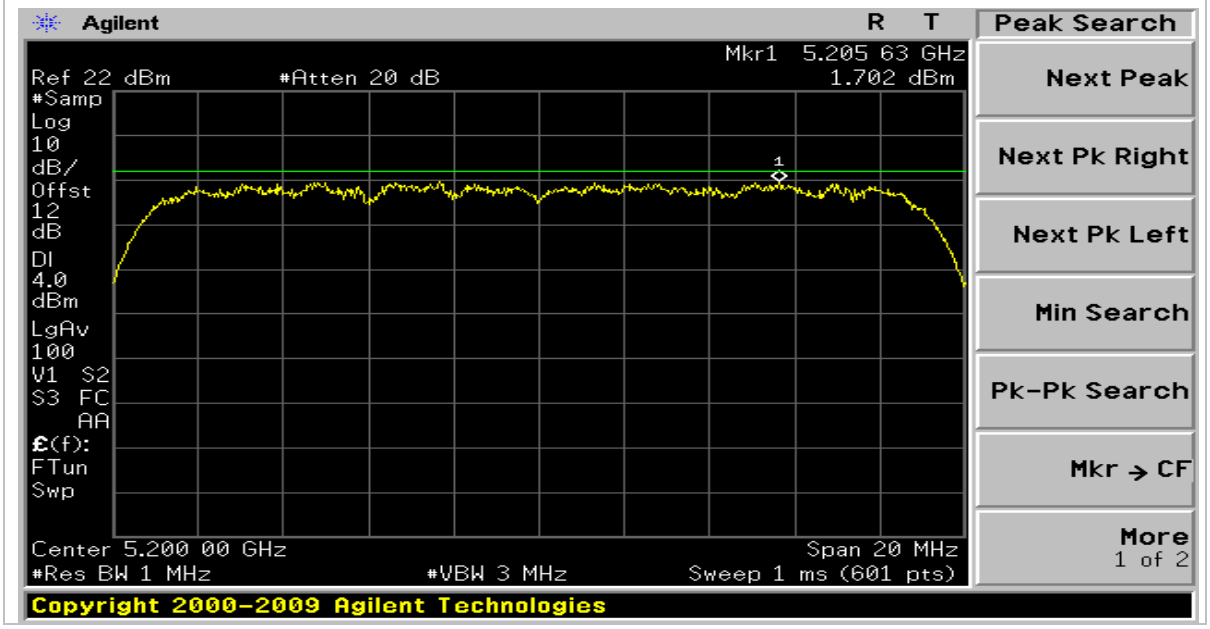
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.18 GHz	B	JC



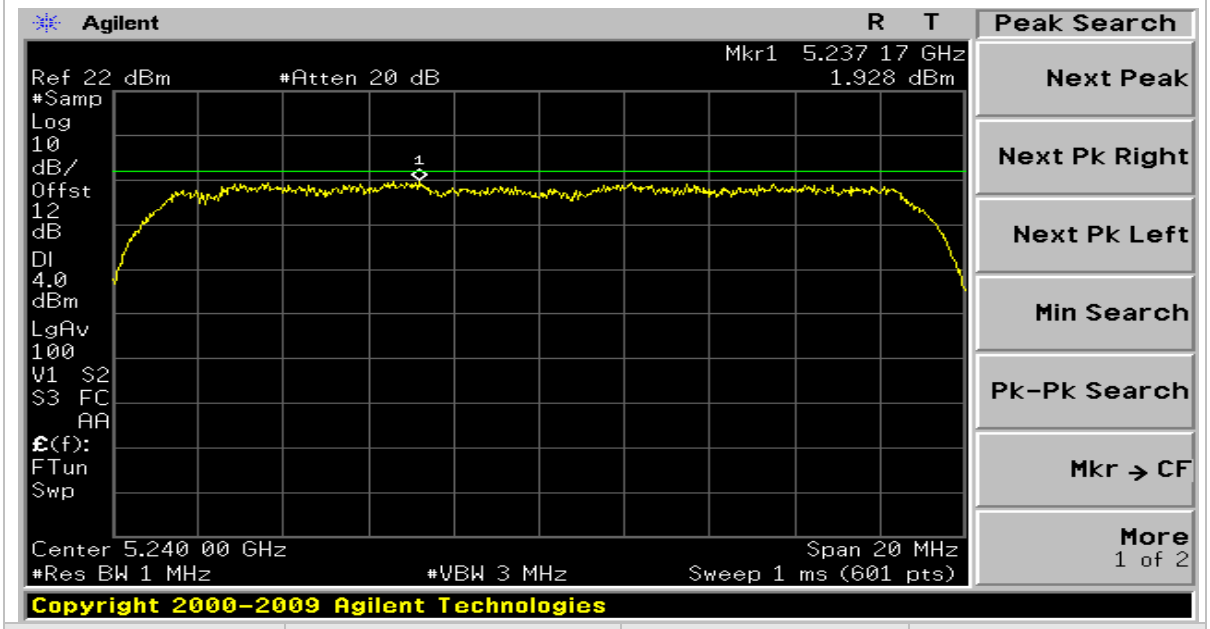
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.20 GHz	B	JC



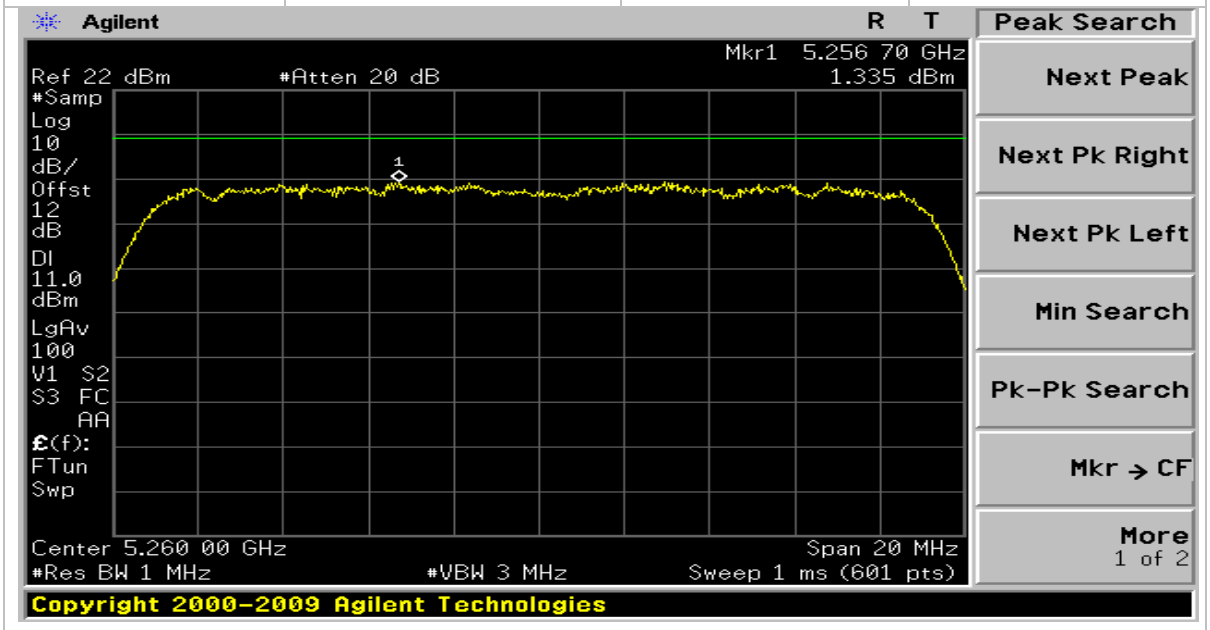
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.24 GHz	B	JC



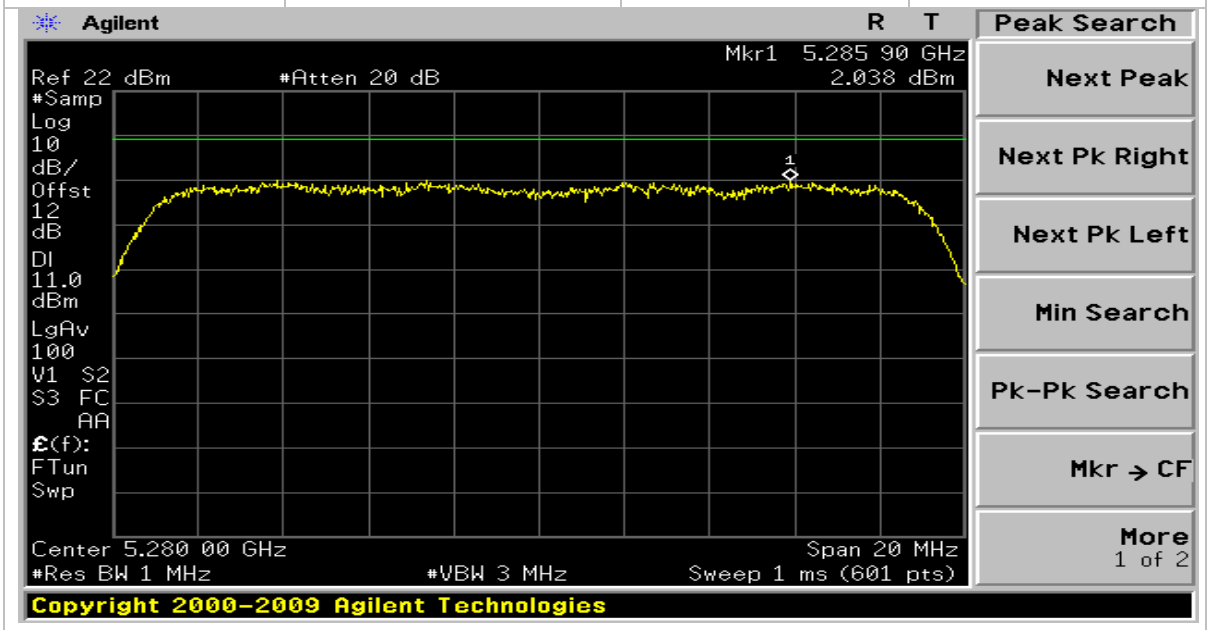
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.26 GHz	B	JC



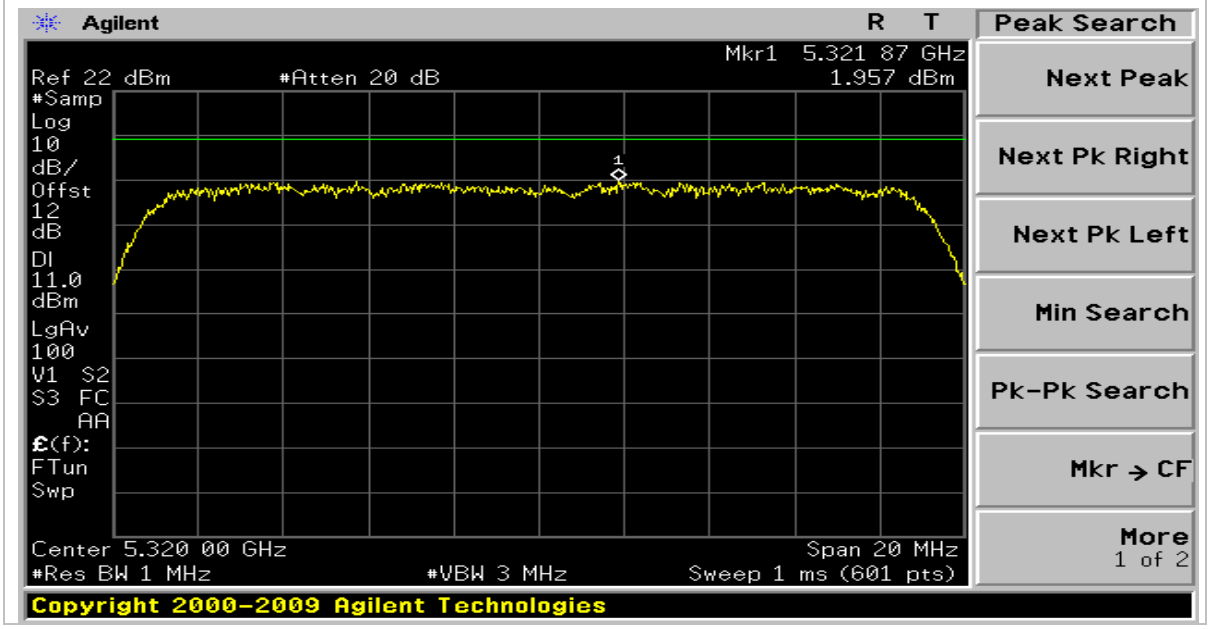
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.28 GHz	B	JC



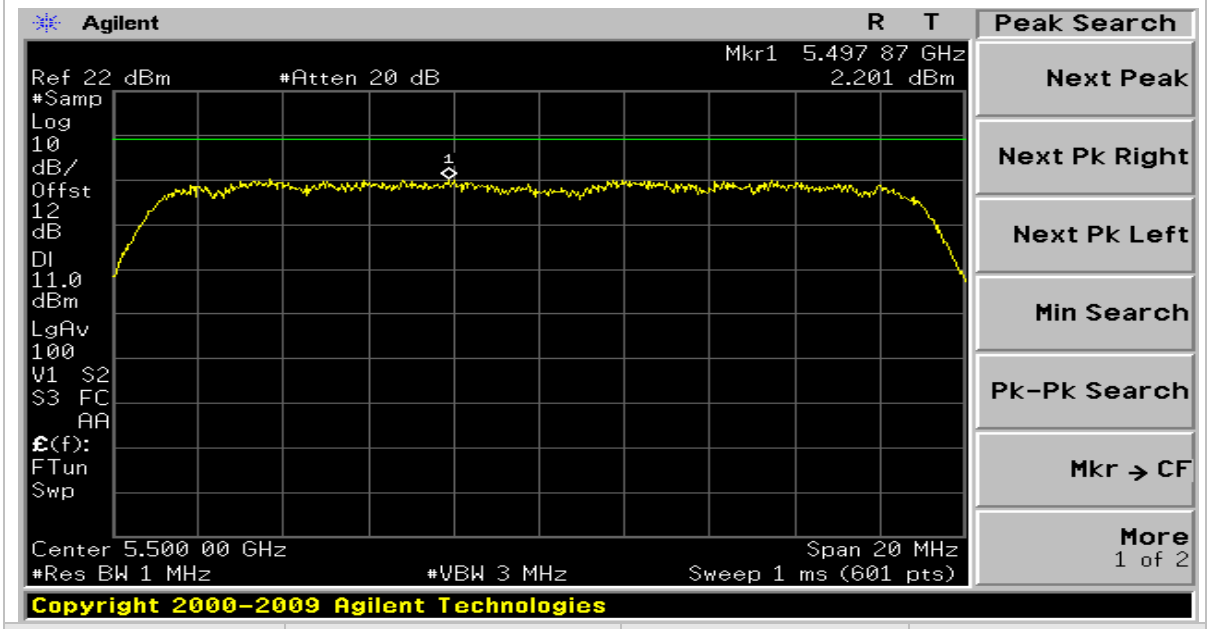
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.32 GHz	B	JC



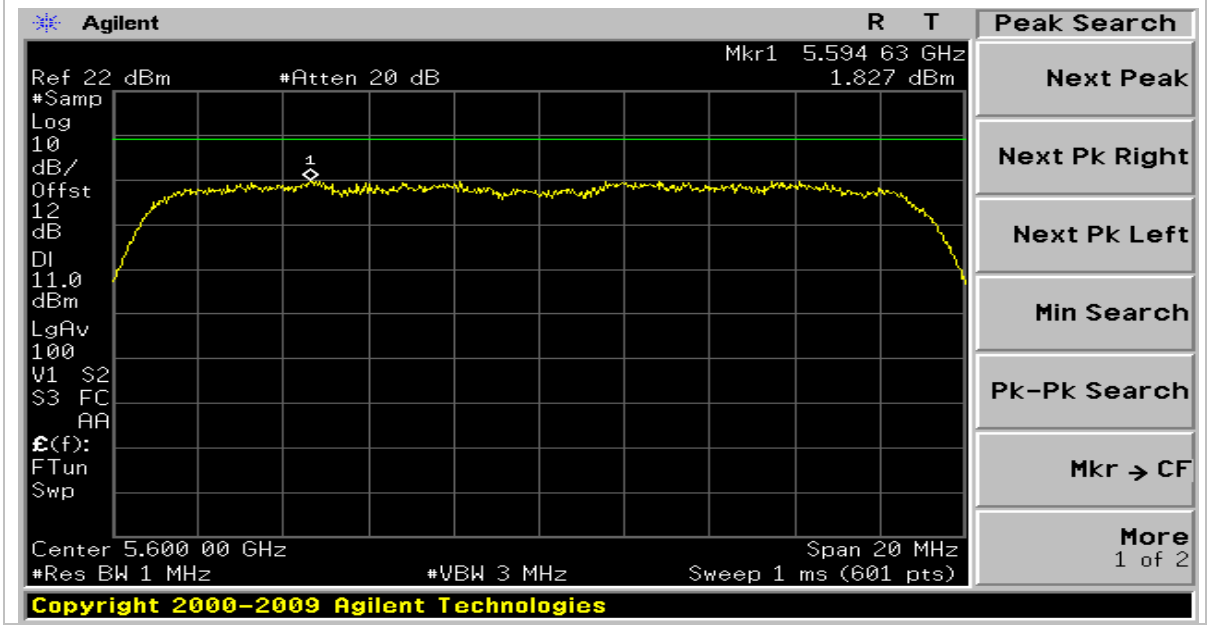
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.50 GHz	B	JC



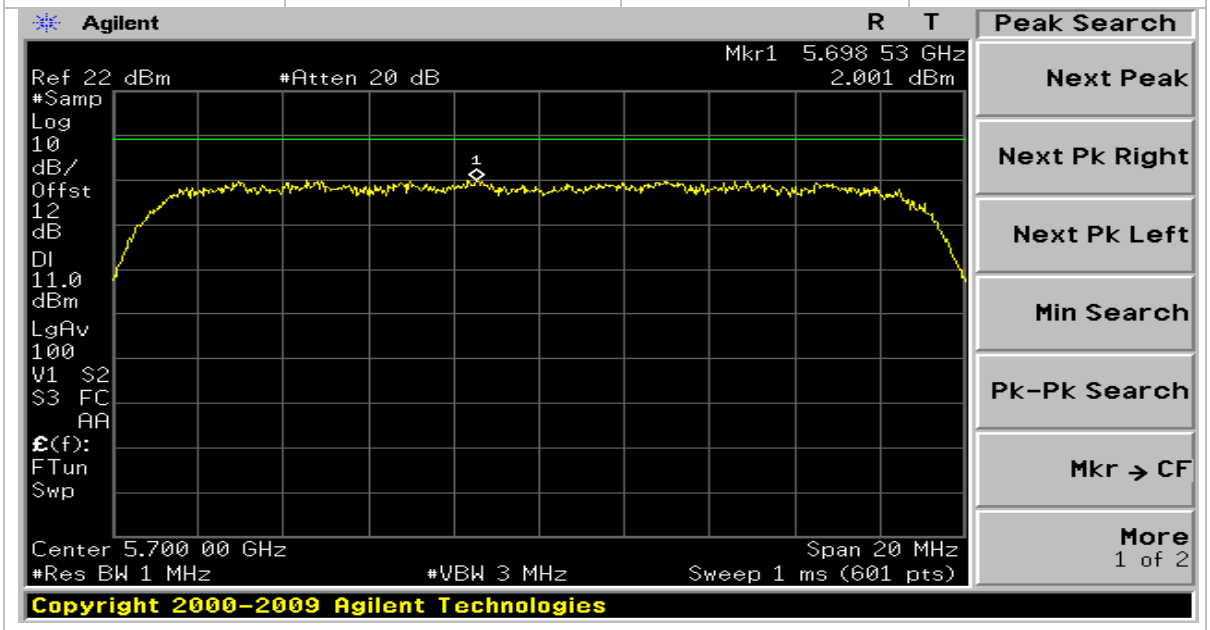
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.60 GHz	B	JC



Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide

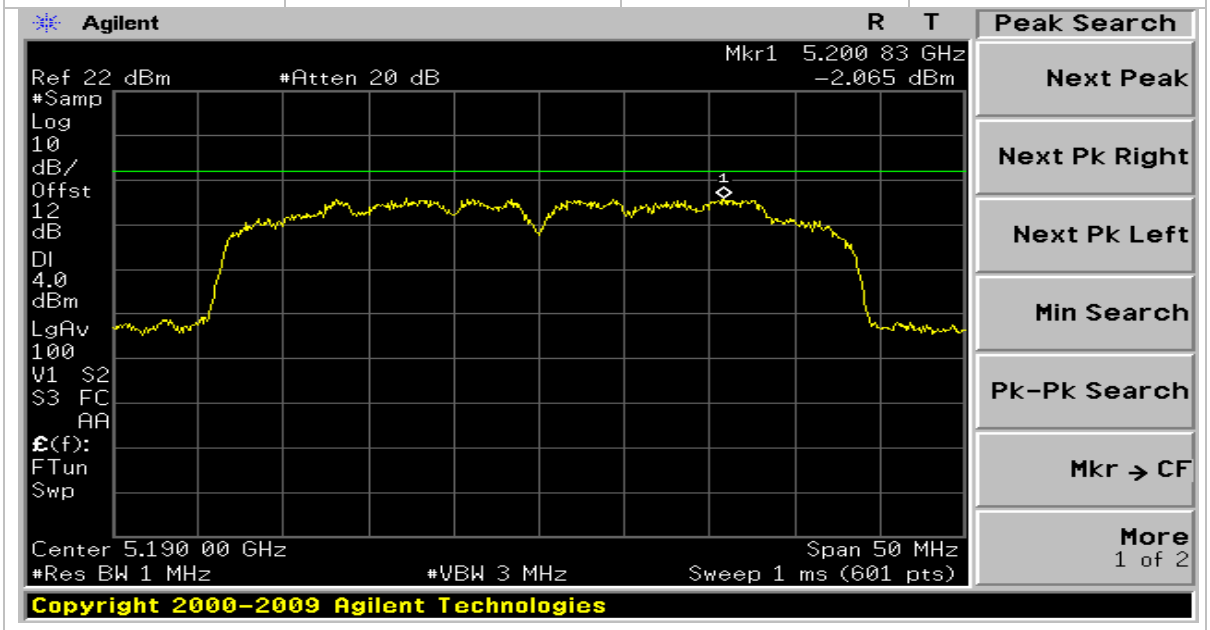
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.70 GHz	B	JC



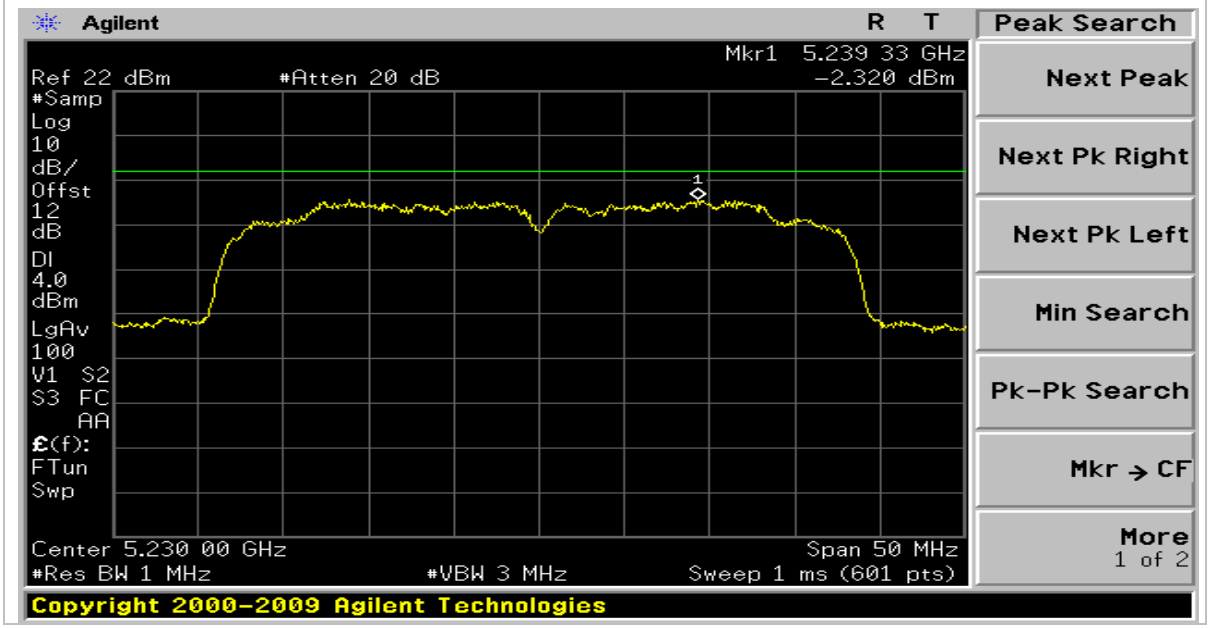
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.19 GHz	B	JC



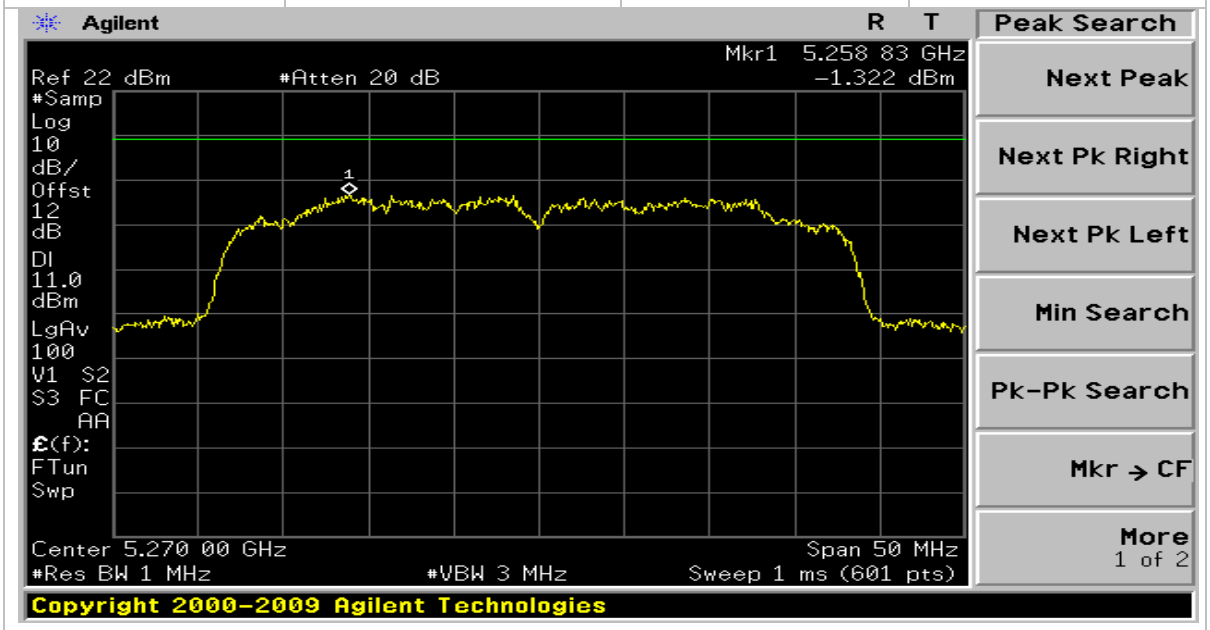
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.23 GHz	B	JC



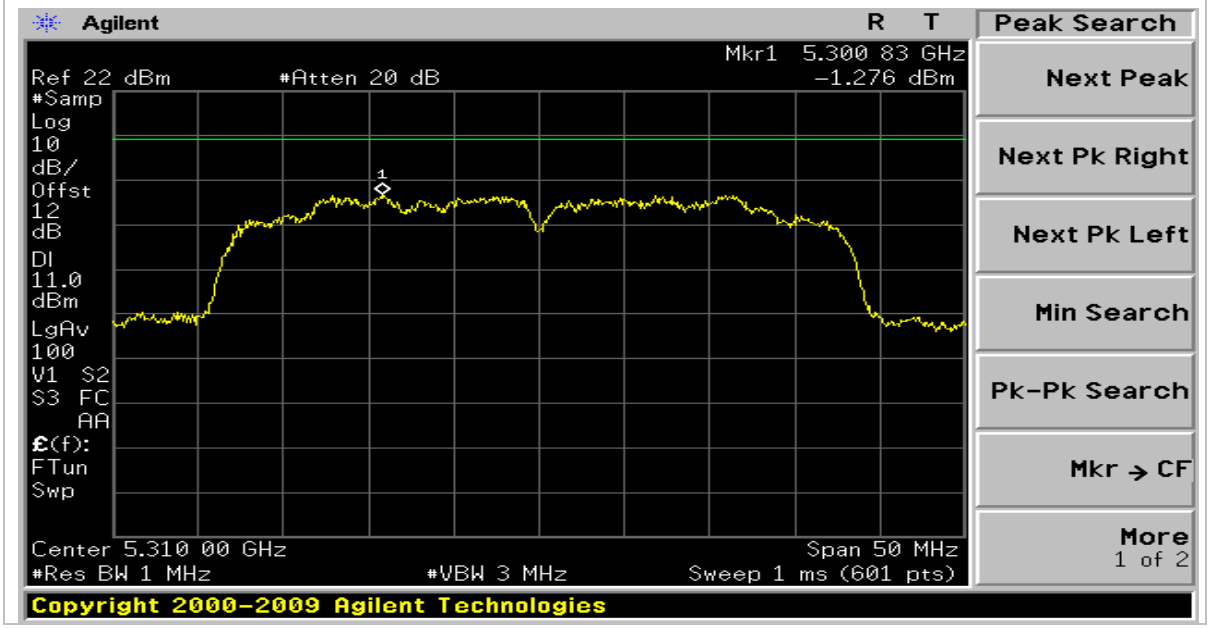
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.27 GHz	B	JC



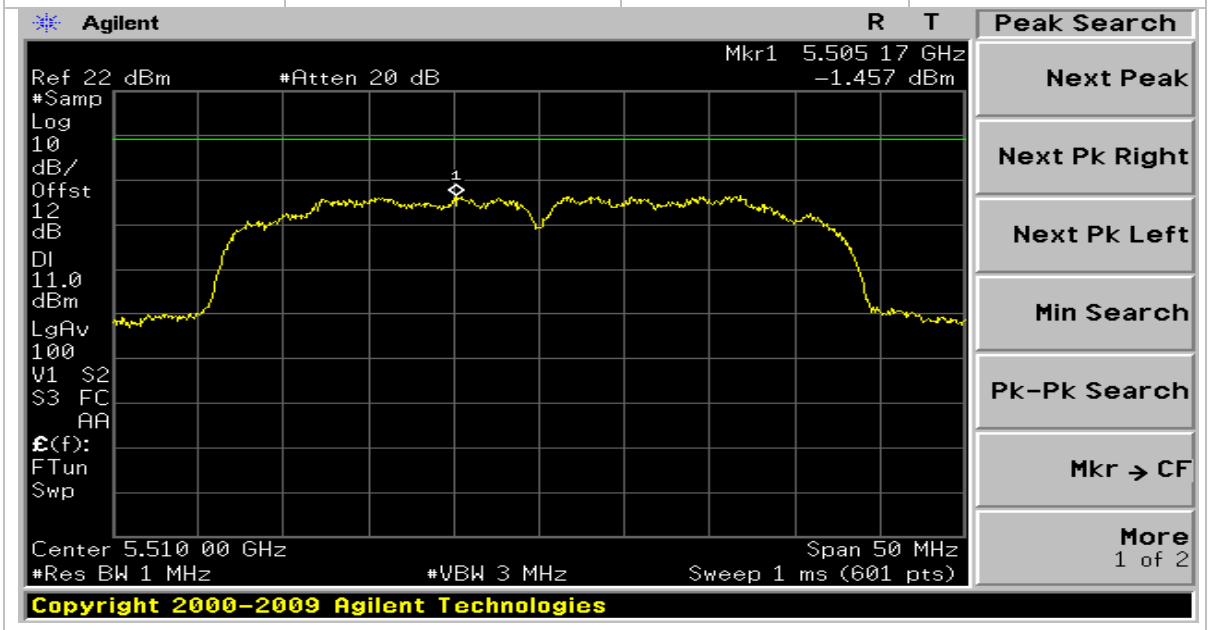
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.31 GHz	B	JC



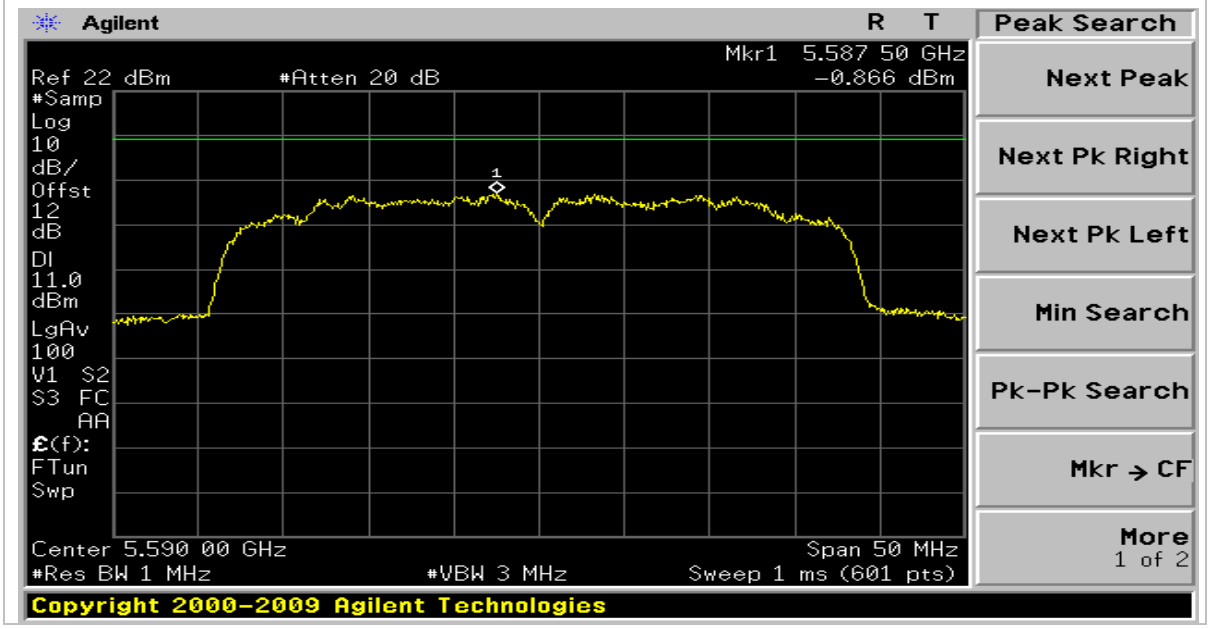
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.51 GHz	B	JC



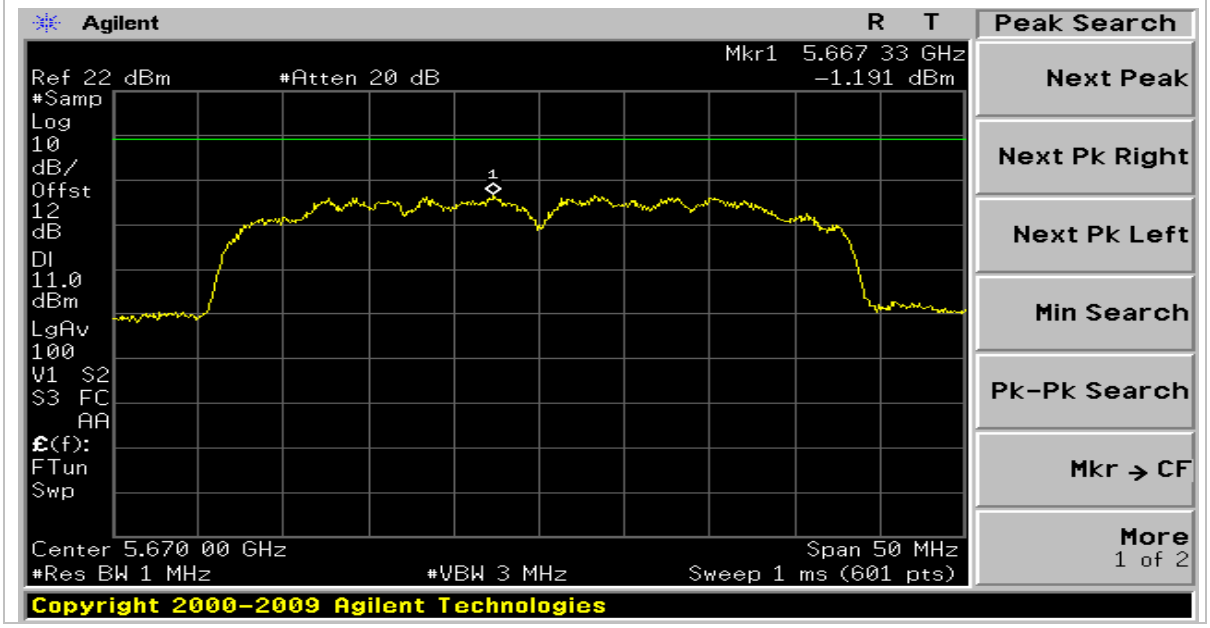
Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.59 GHz	B	JC



Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/11/09	5.67 GHz	B	JC



PEAK EXCURSION

CLIENT:	Intel Corporation	**DATE:**	08/12/09
EUT:	Intel WiFi Link 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A70A4	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	**TEMPERATURE:**	22 deg. C
		HUMIDITY:	32% RH
		TIME:	9:30 AM

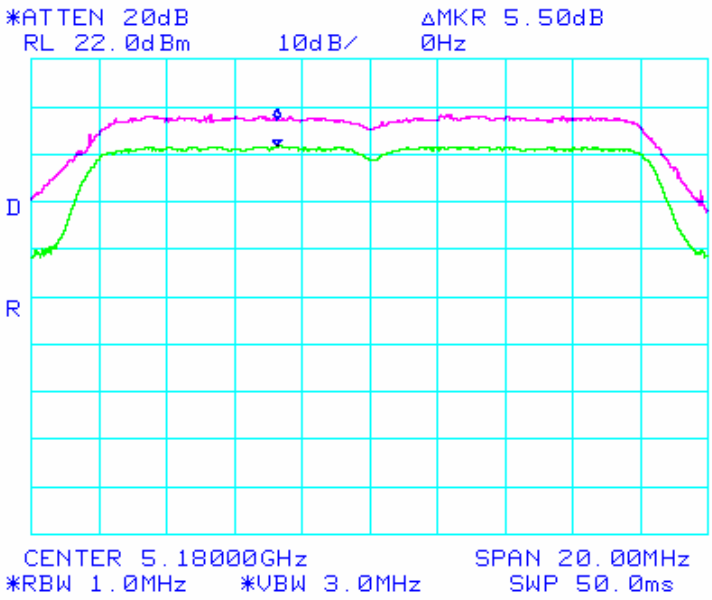
Description:	The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

Peak Power Spectral Density Limits	
Frequency (MHz)	**Limit (dBm)**
5150-5350	13
5470-5725	13

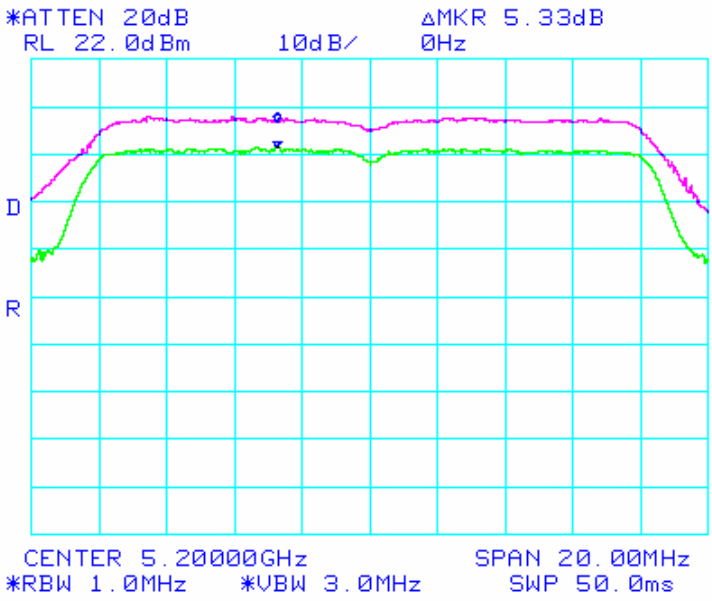
Peak Excursion (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.18 GHz	A	JC



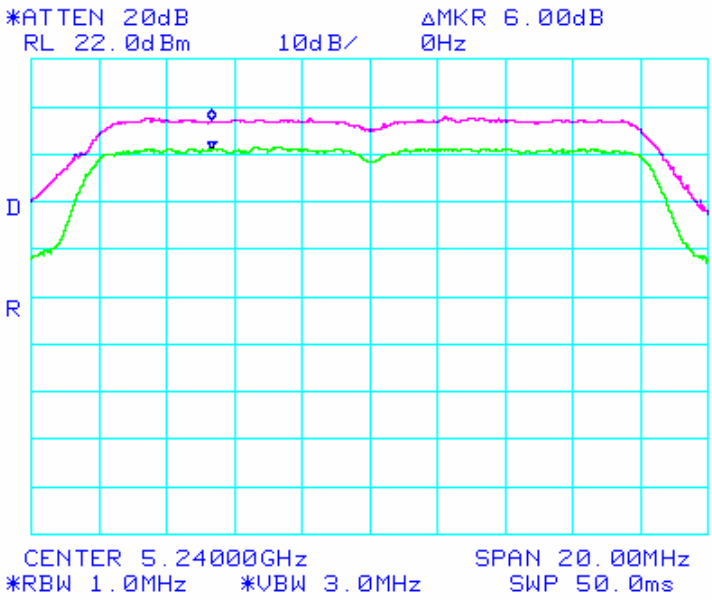
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.20 GHz	A	JC



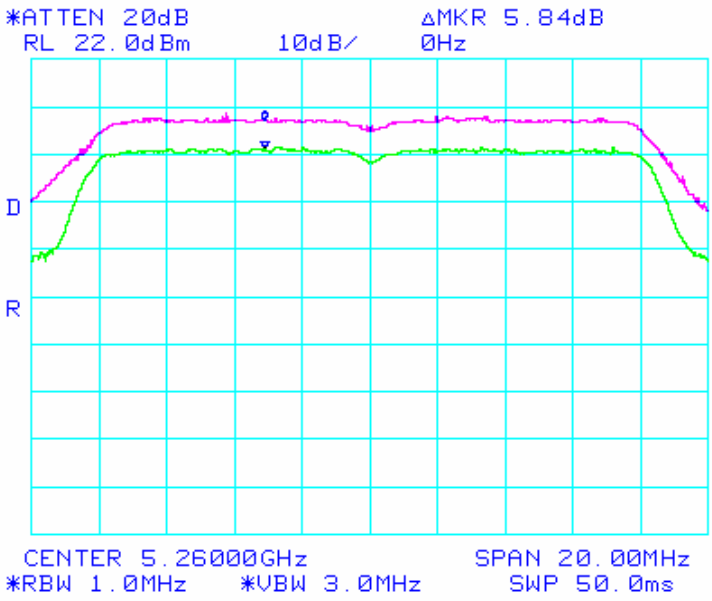
Peak Excursion (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.24 GHz	A	JC



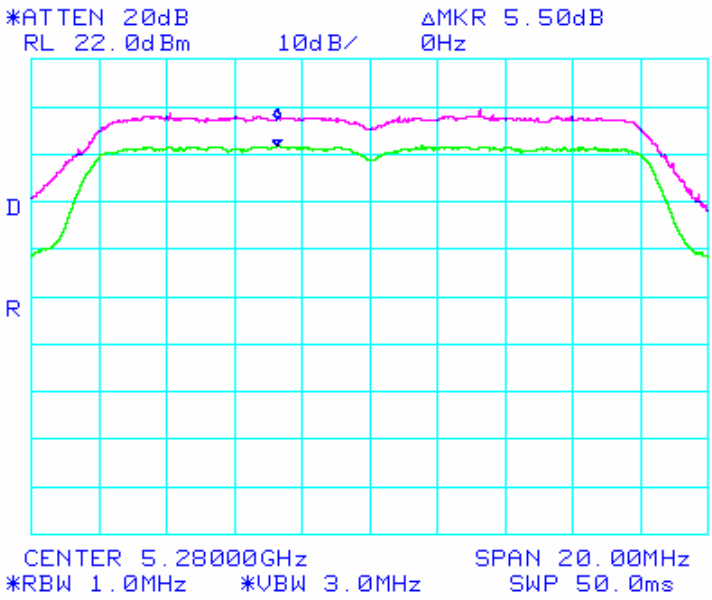
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.26 GHz	A	JC



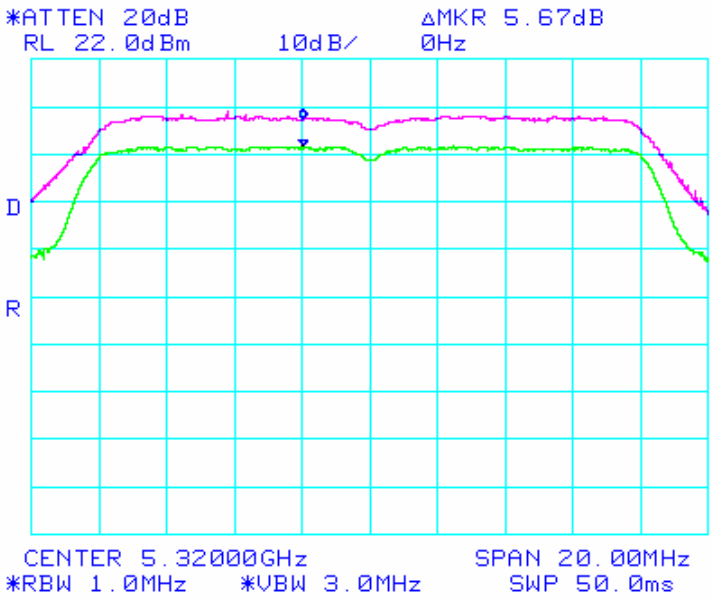
Peak Excursion (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.28 GHz	A	JC



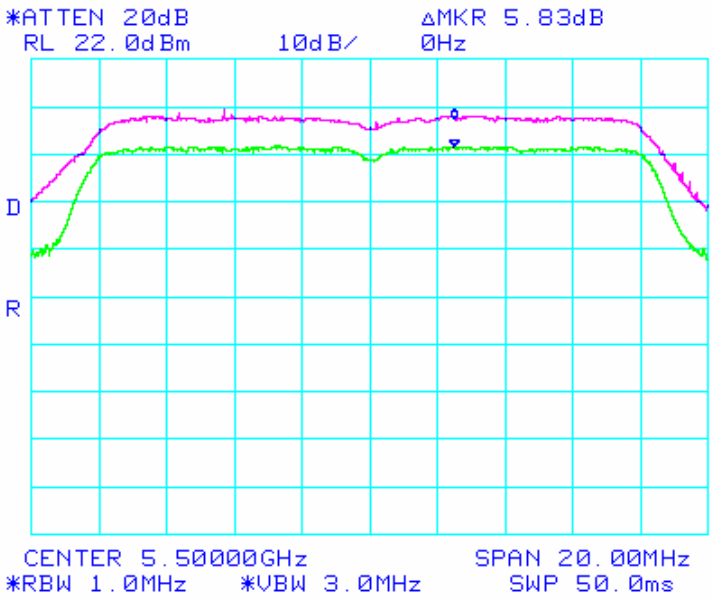
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.32 GHz	A	JC



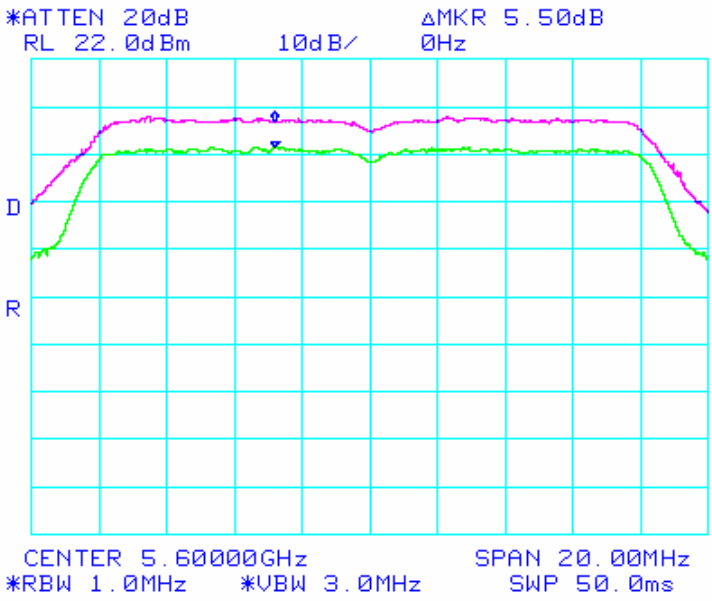
Peak Excursion (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.50 GHz	A	JC



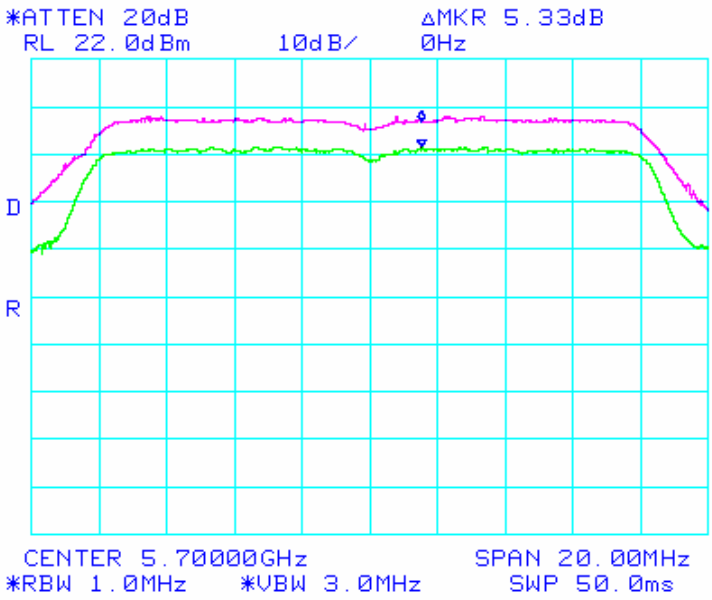
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.60 GHz	A	JC



Peak Excursion (Continued)

802.11a Mode

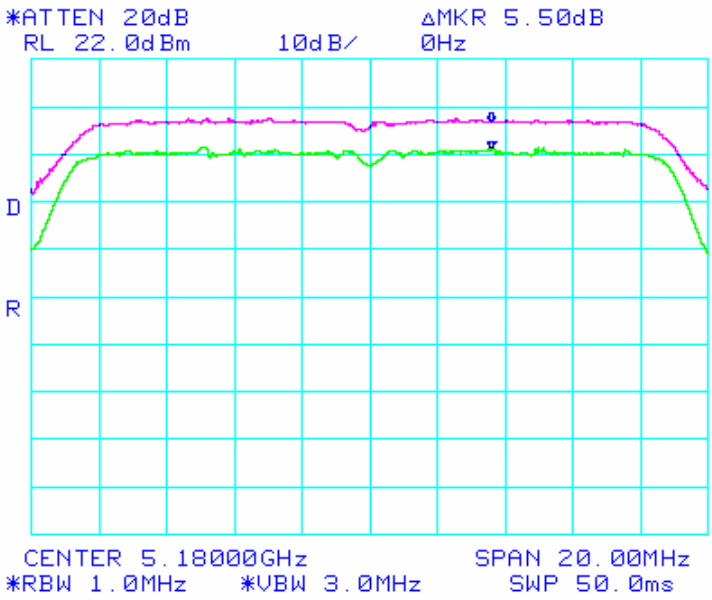
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.70 GHz	A	JC



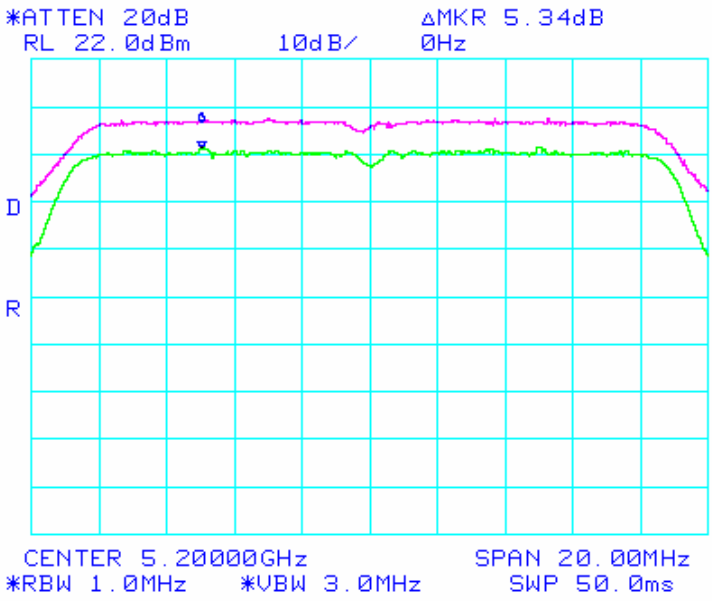
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.18 GHz	A	JC



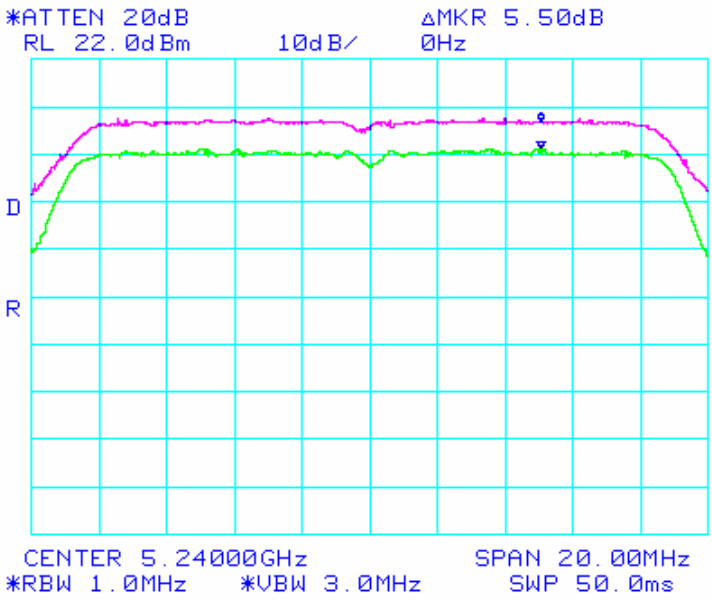
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.20 GHz	A	JC



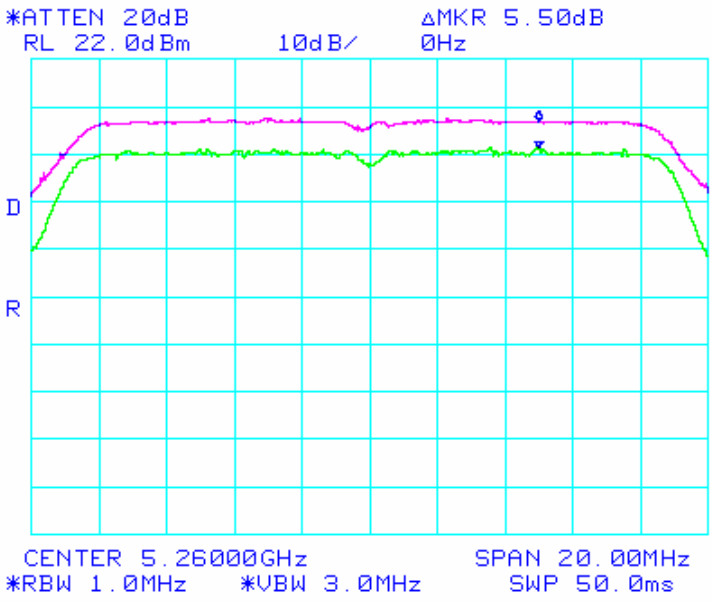
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.24 GHz	A	JC



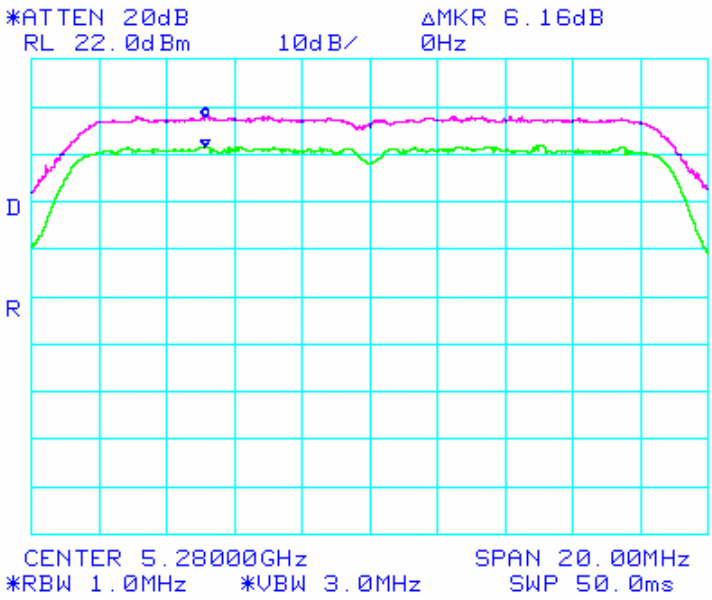
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.26 GHz	A	JC



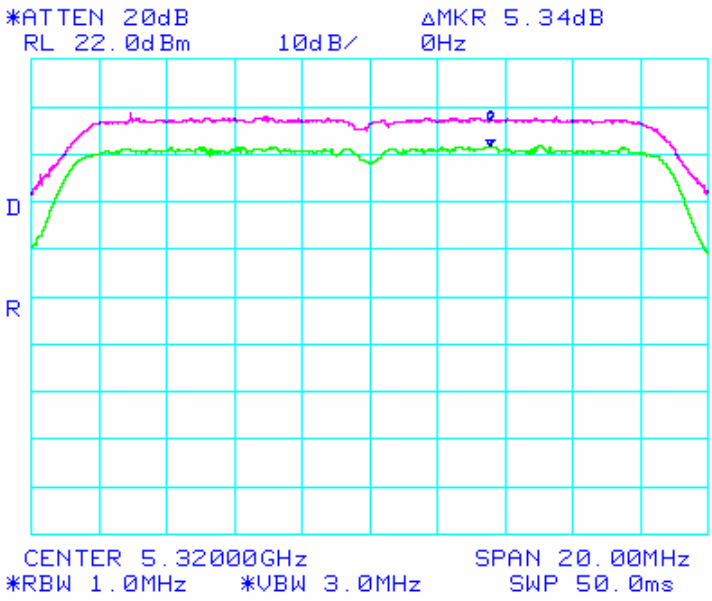
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.28 GHz	A	JC



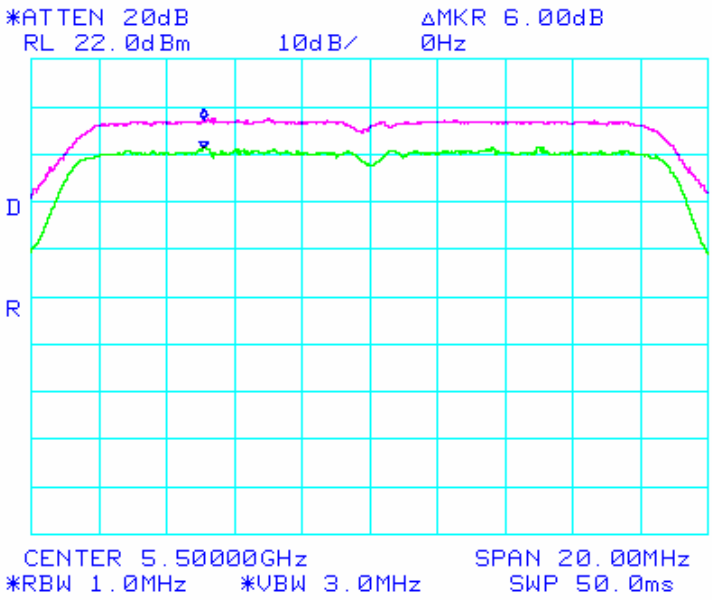
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.32 GHz	A	JC



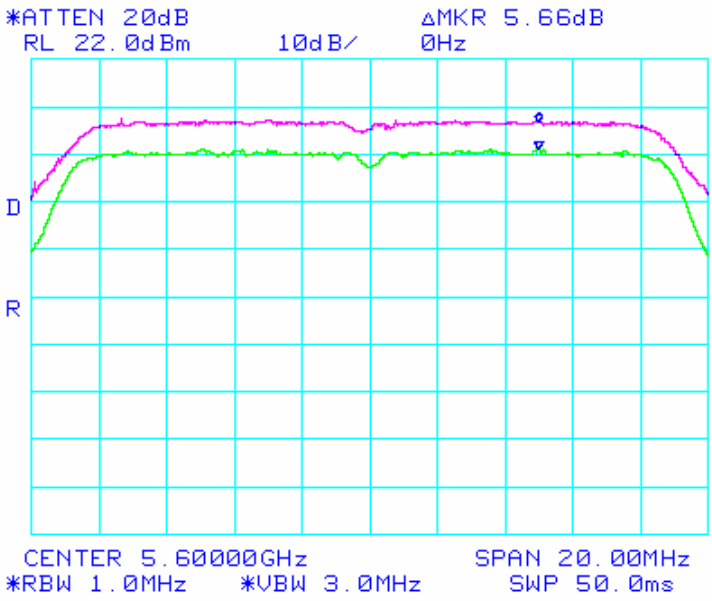
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.50 GHz	A	JC



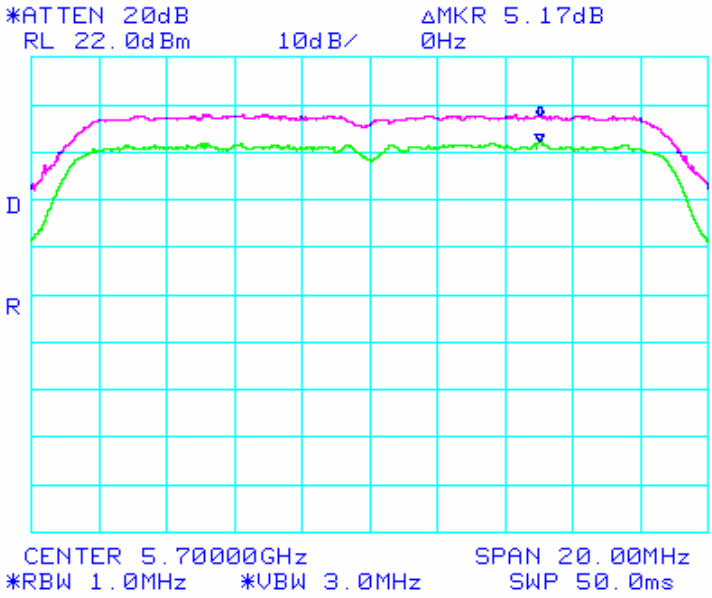
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.60 GHz	A	JC



Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

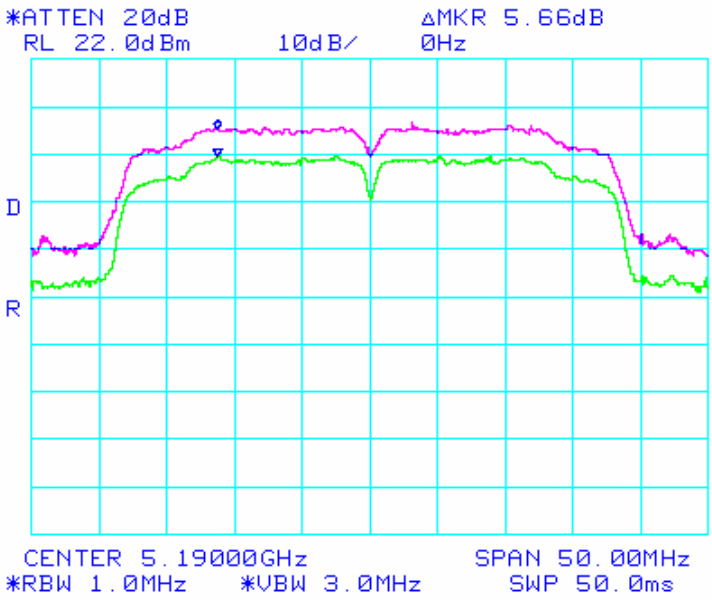
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.70 GHz	A	JC



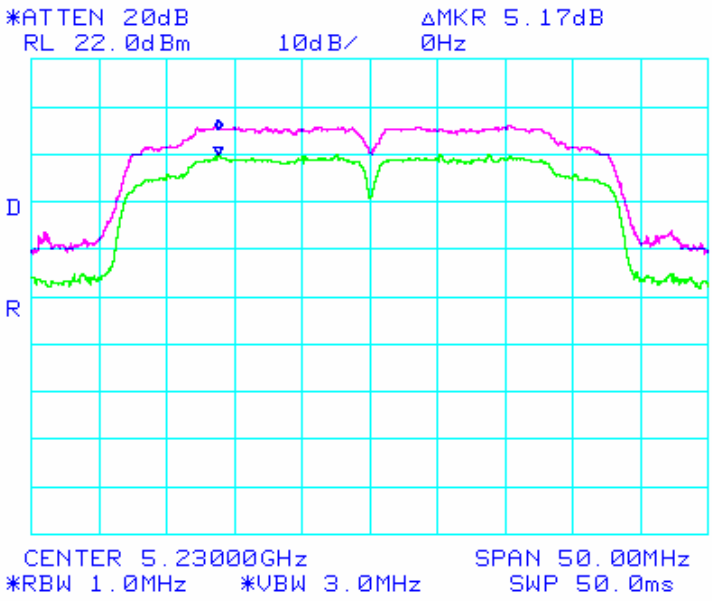
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.19 GHz	A	JC



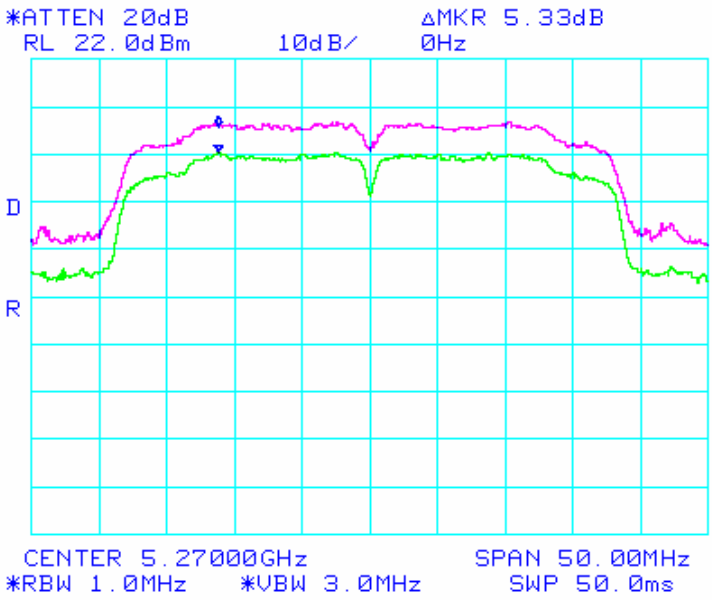
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.23 GHz	A	JC



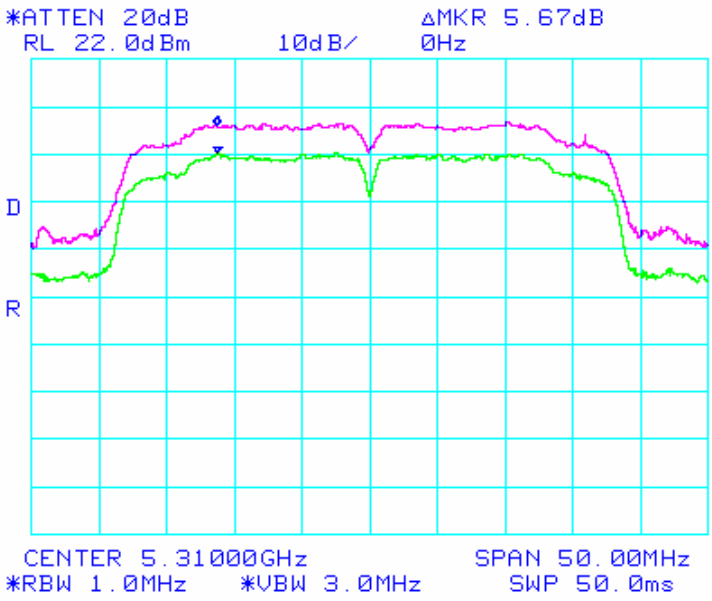
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.27 GHz	A	JC



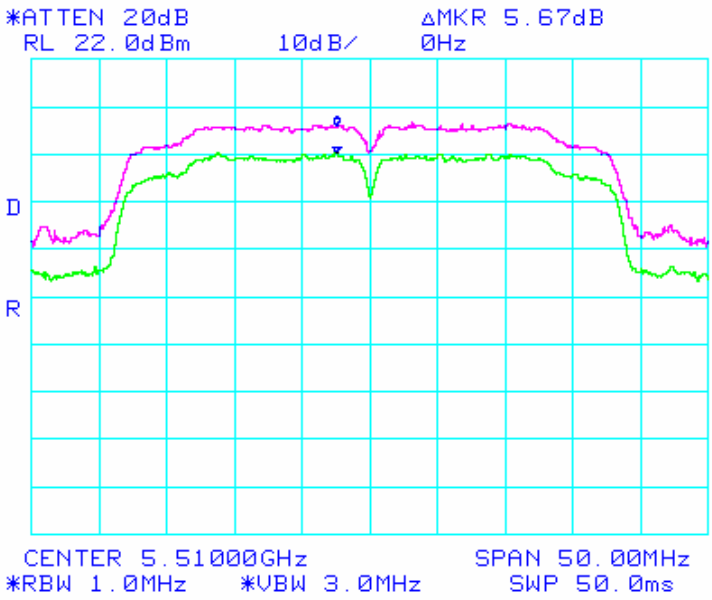
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.31 GHz	A	JC



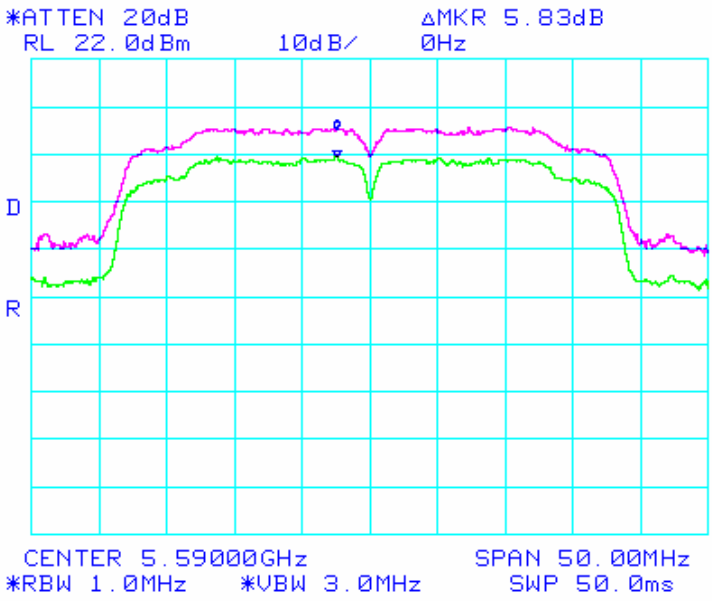
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.51 GHz	A	JC



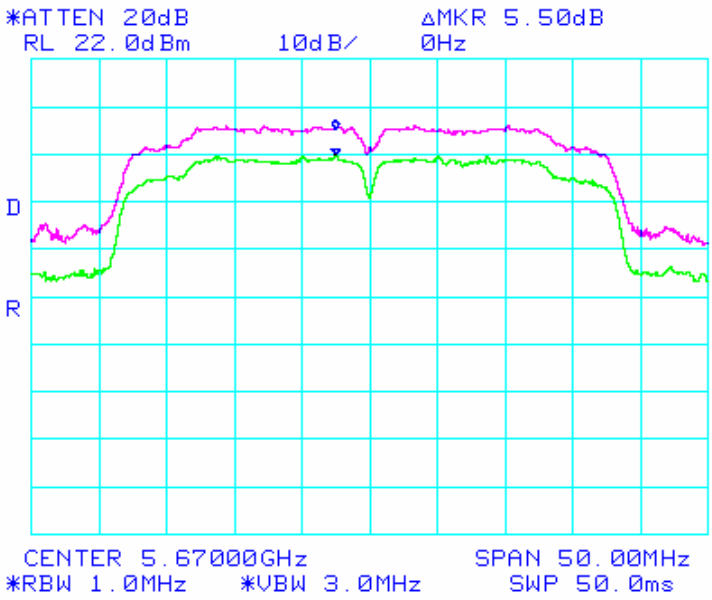
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.59 GHz	A	JC



Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide

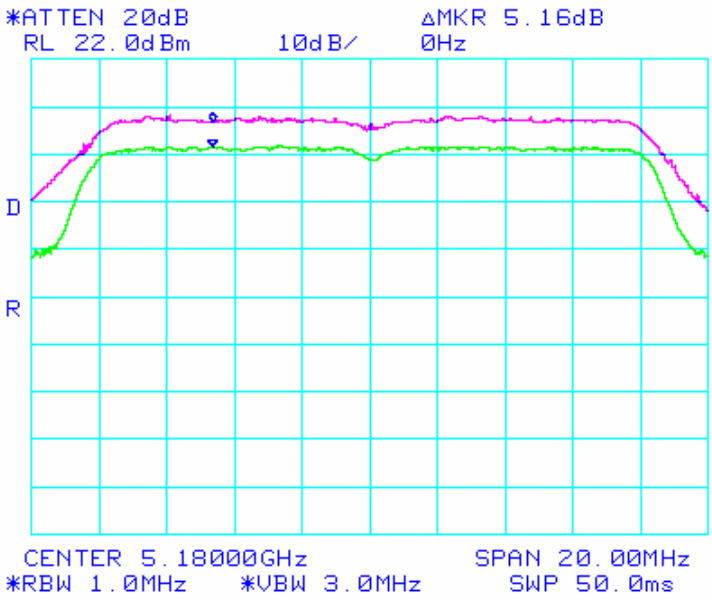
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.67 GHz	A	JC



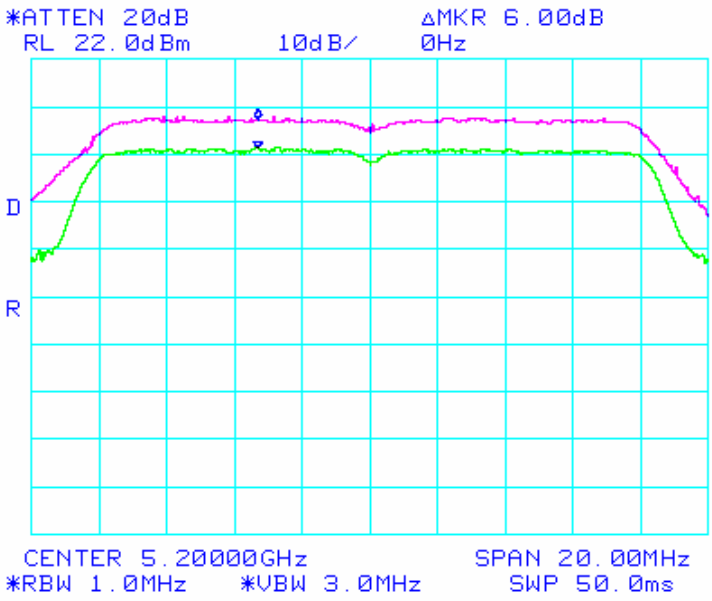
Peak Excursion (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.18 GHz	B	JC



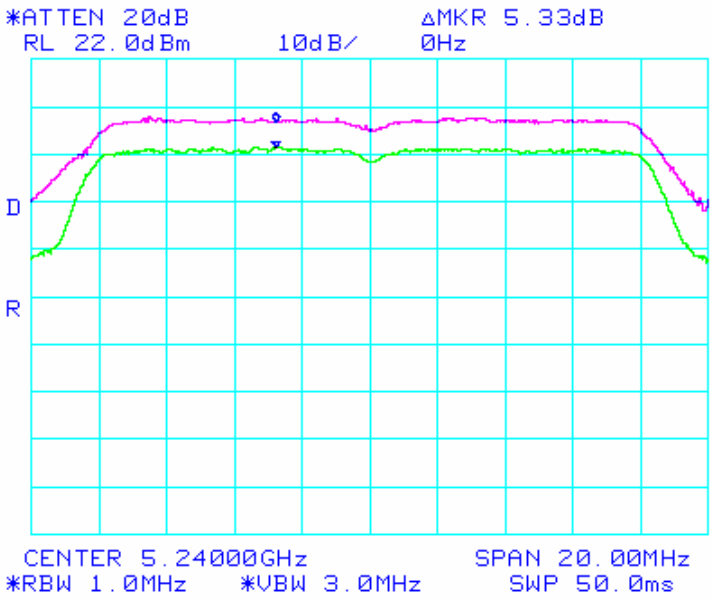
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.20 GHz	B	JC



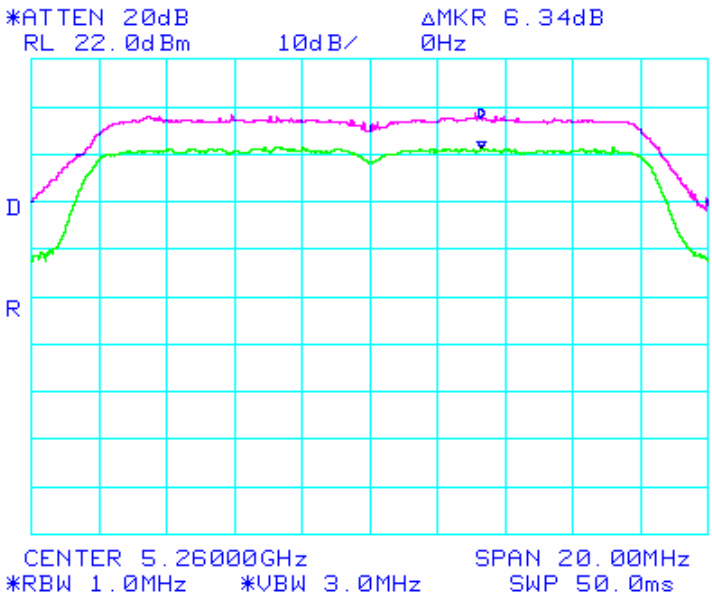
Peak Excursion (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.24 GHz	B	JC



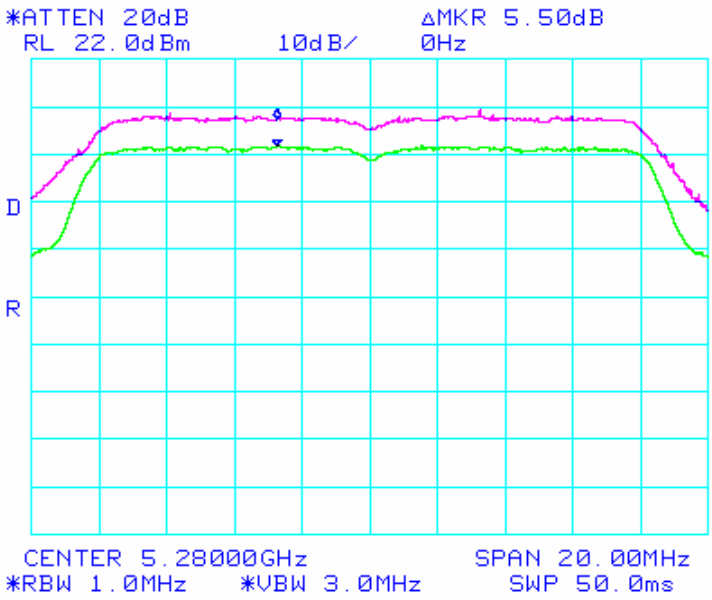
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.26 GHz	B	JC



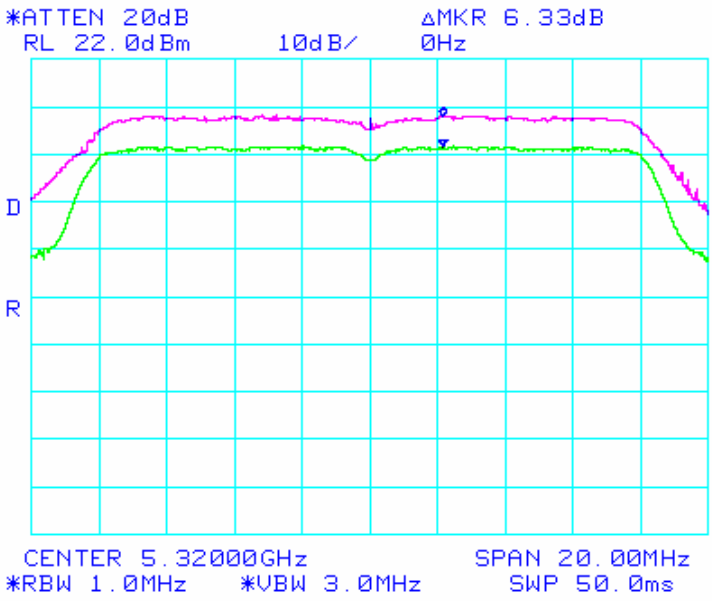
Peak Excursion (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.28 GHz	B	JC



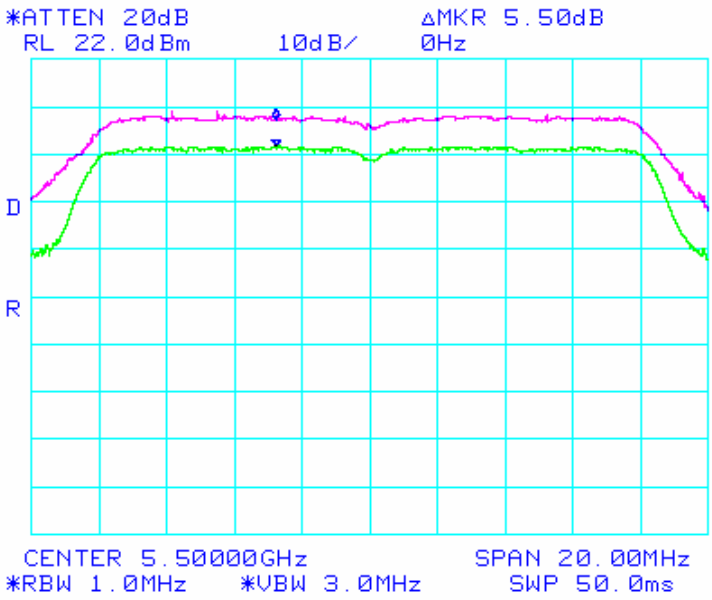
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.32 GHz	B	JC



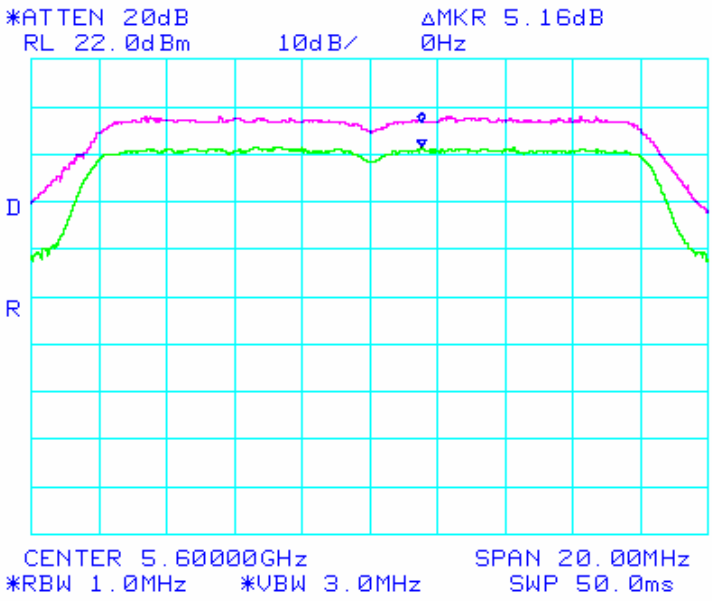
Peak Excursion (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.50 GHz	B	JC



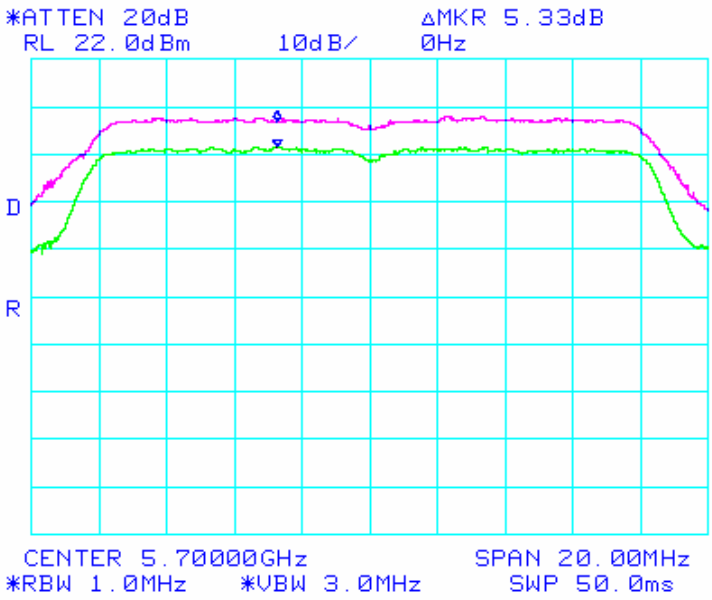
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.60 GHz	B	JC



Peak Excursion (Continued)

802.11a Mode

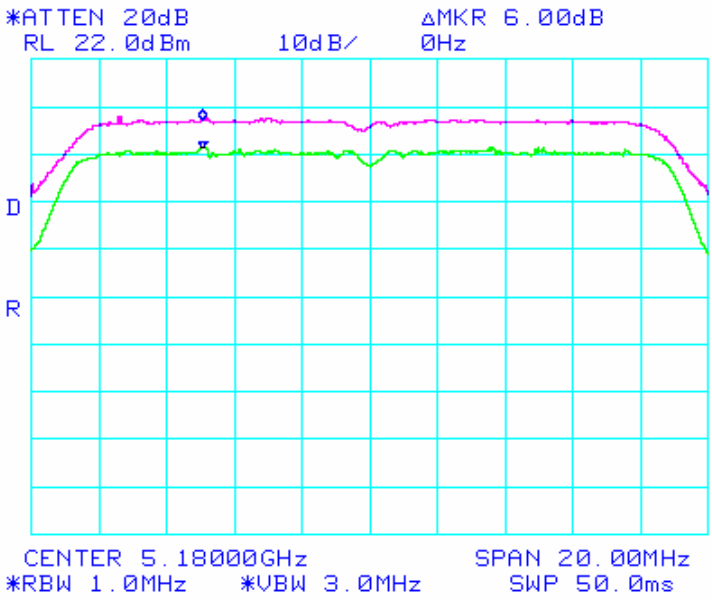
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.70 GHz	B	JC



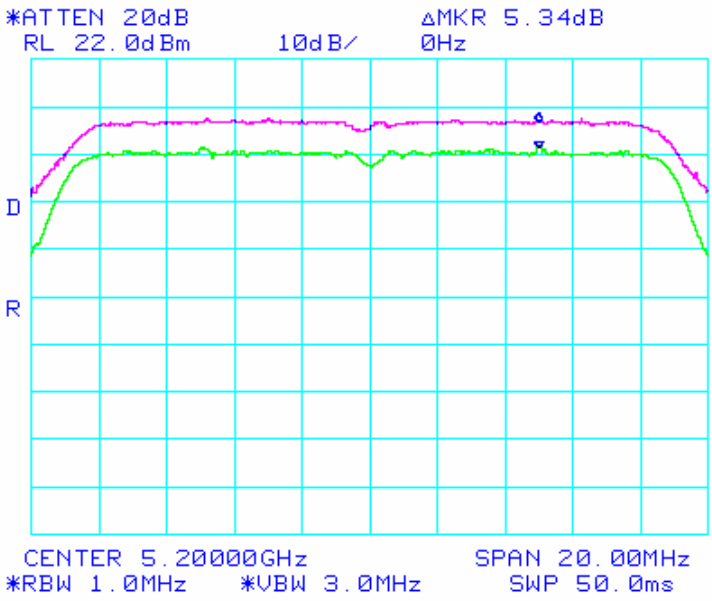
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.18 GHz	B	JC



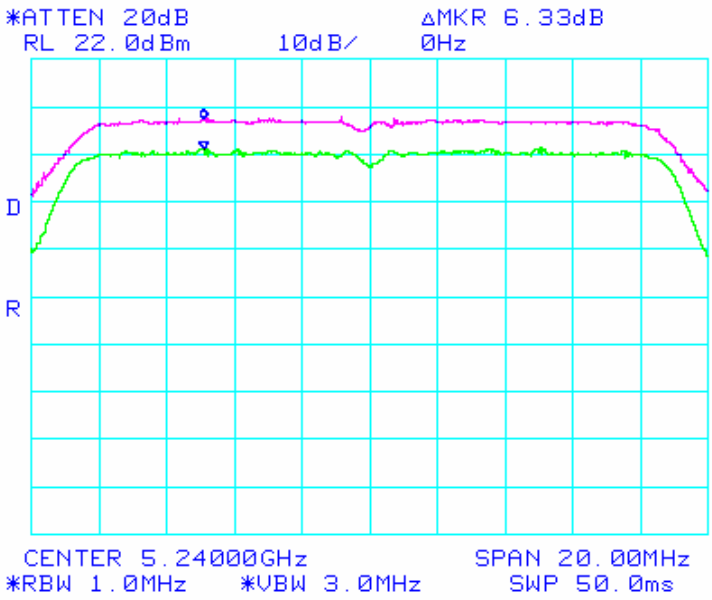
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.20 GHz	B	JC



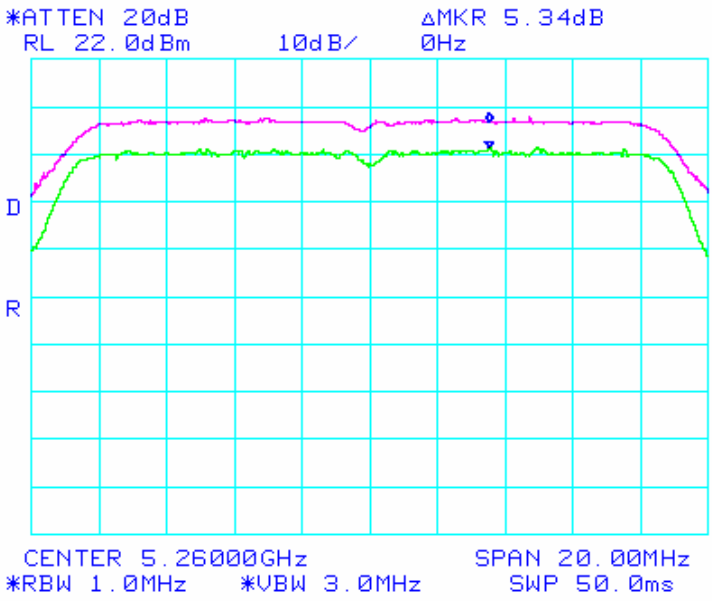
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.24 GHz	B	JC



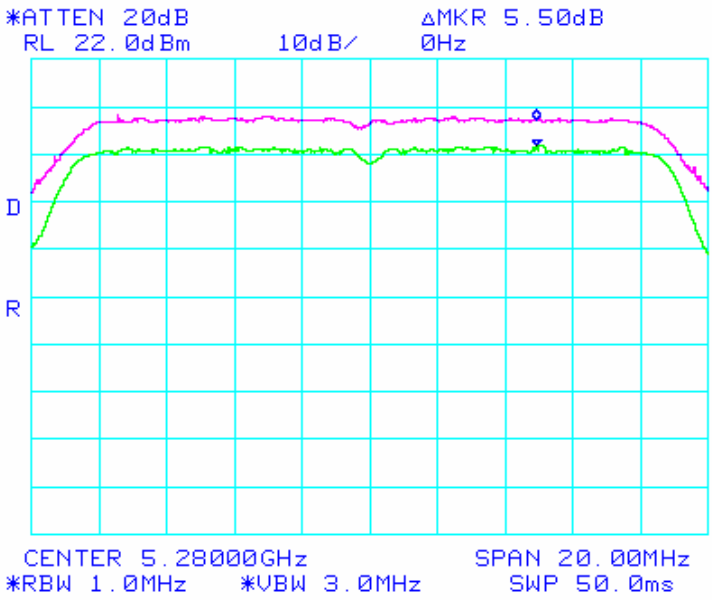
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.26 GHz	B	JC



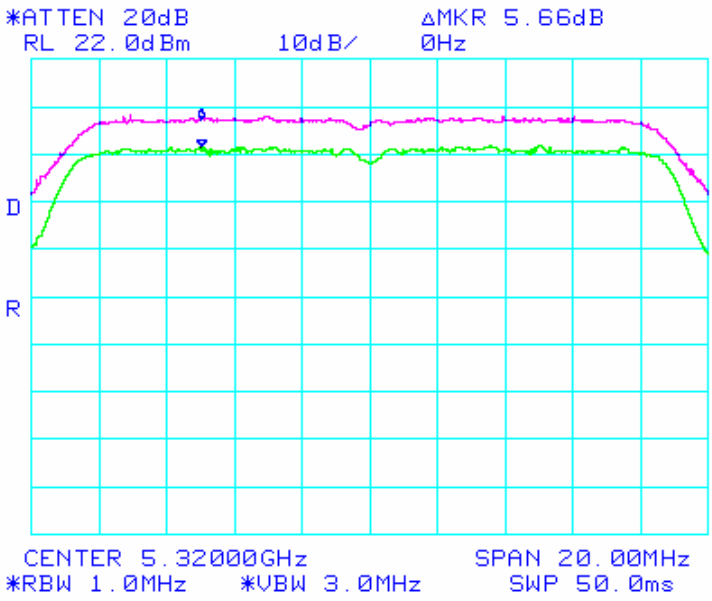
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.28 GHz	B	JC



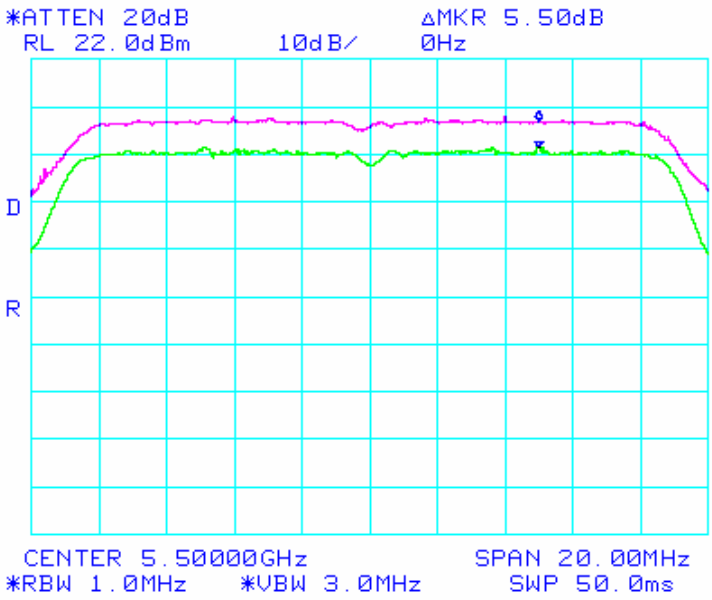
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.32 GHz	B	JC



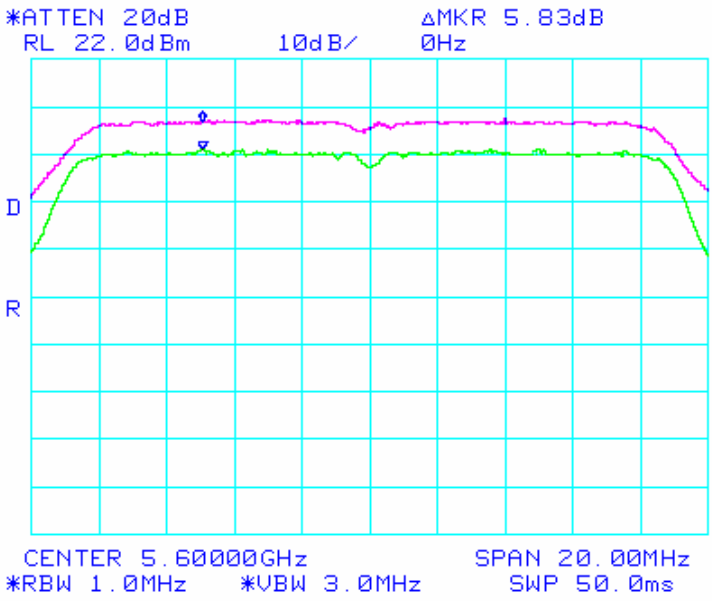
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.50 GHz	B	JC



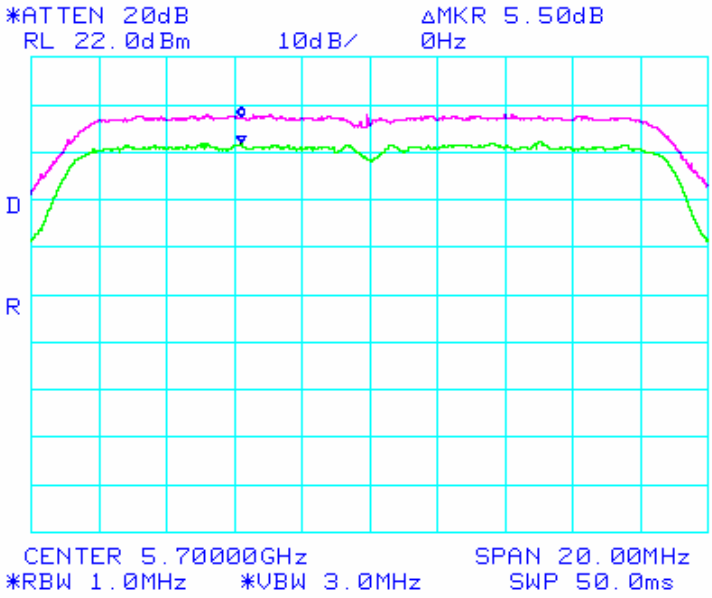
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.60 GHz	B	JC



Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

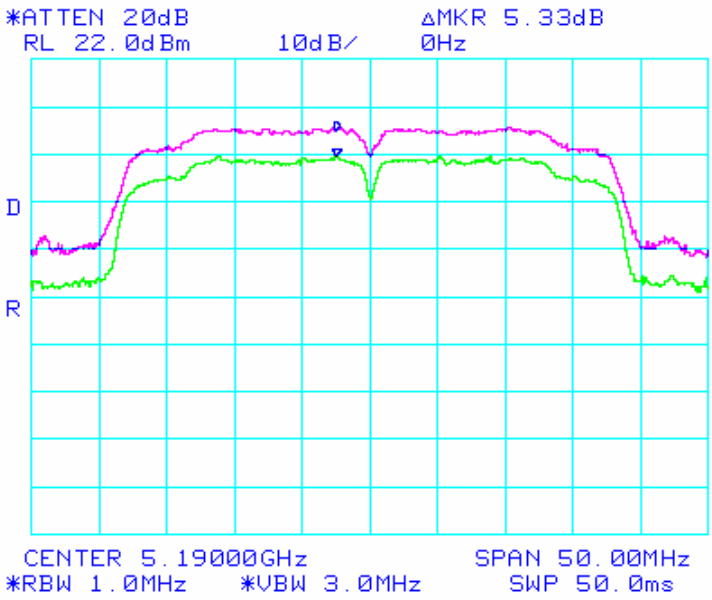
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.70 GHz	B	JC



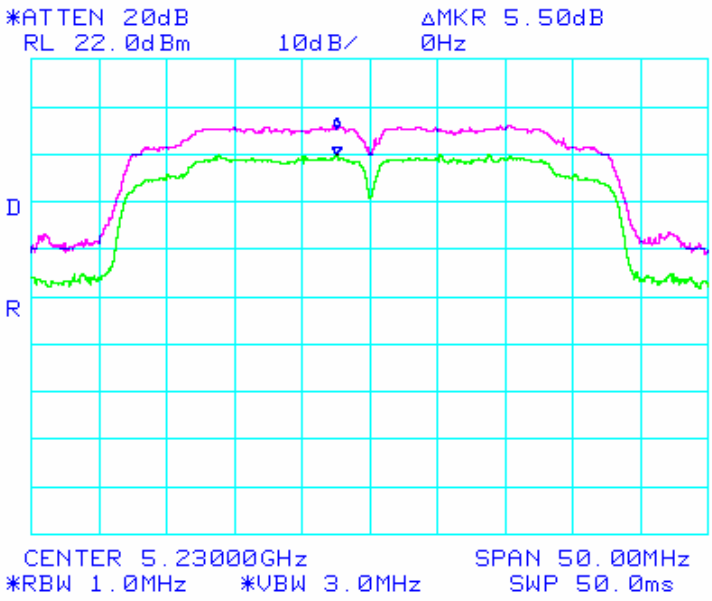
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.19 GHz	B	JC



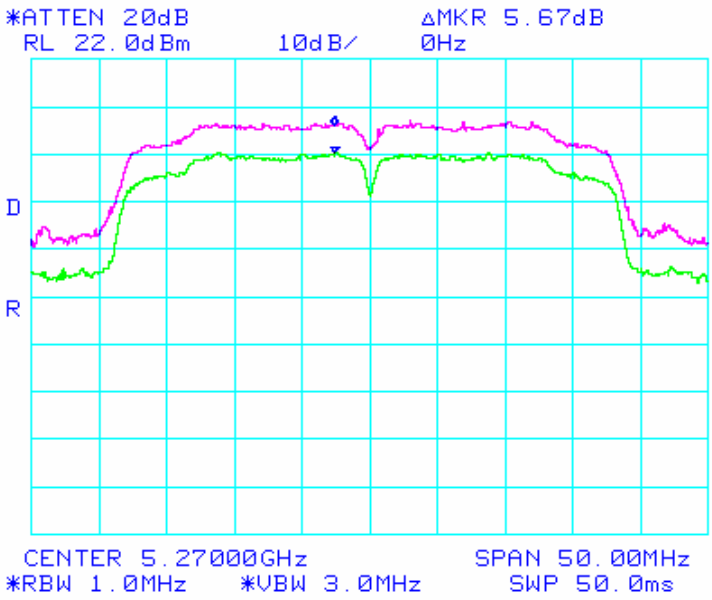
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.23 GHz	B	JC



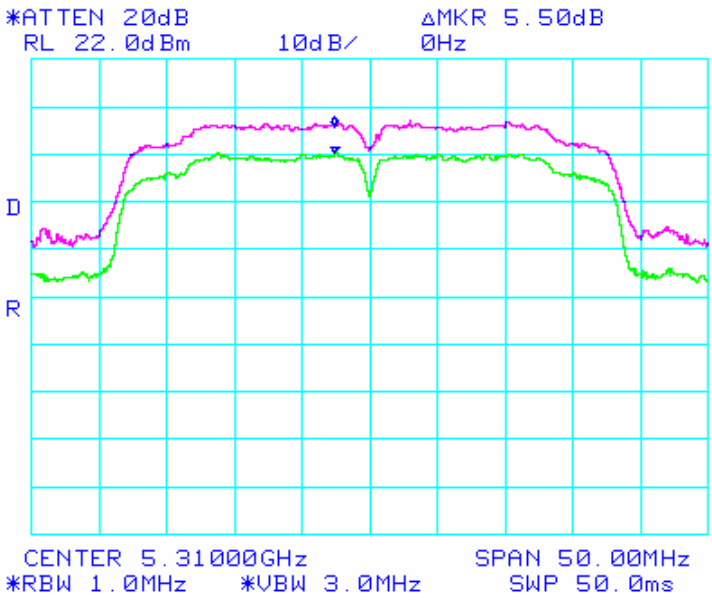
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.27 GHz	B	JC



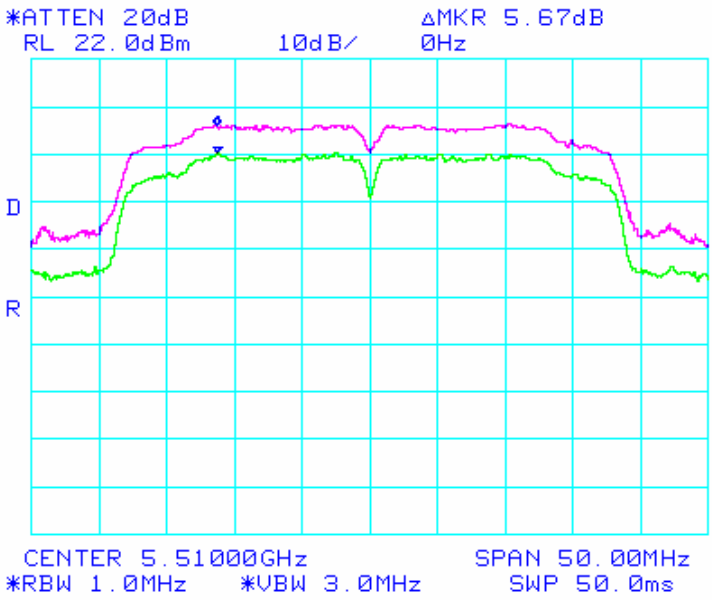
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.31 GHz	B	JC



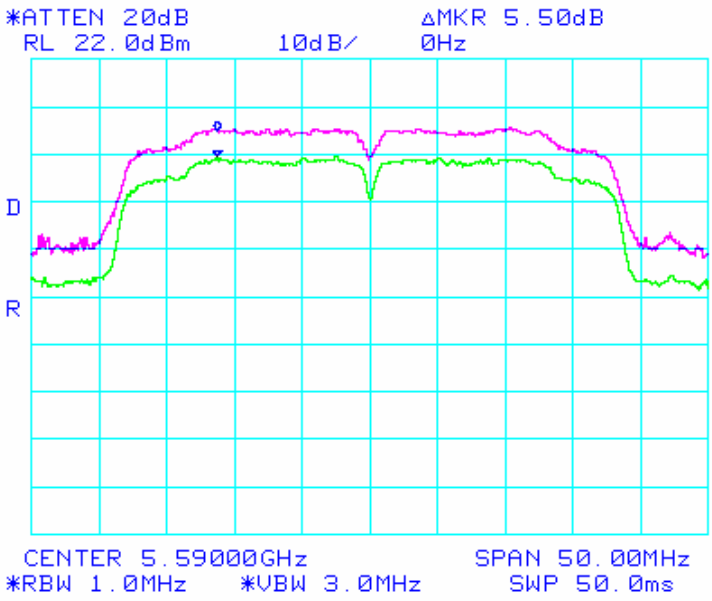
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.51 GHz	B	JC



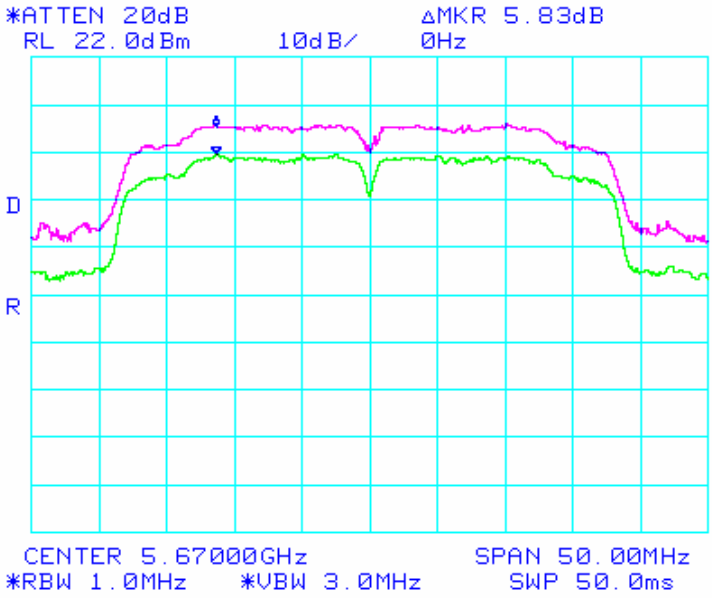
Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.59 GHz	B	JC



Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/12/09	5.67 GHz	B	JC



CONDUCTED OUT OF BAND EMISSIONS

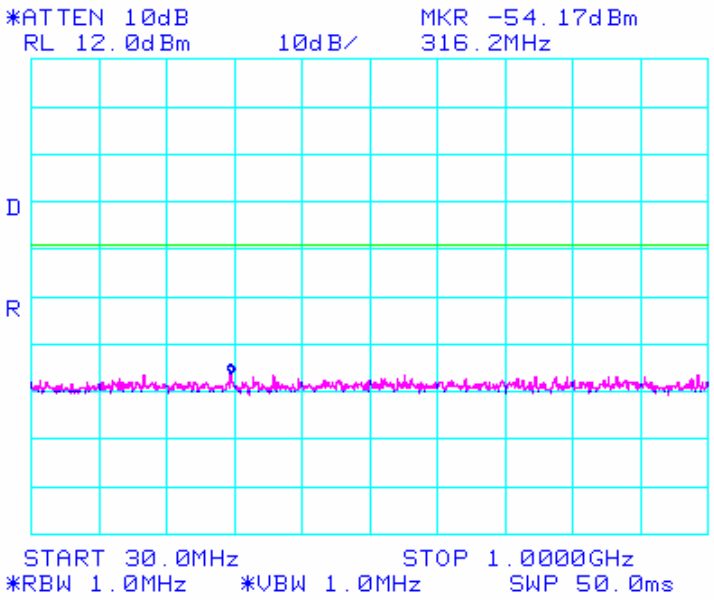
CLIENT:	Intel Corporation	**DATE:**	08/05/09
EUT:	Intel WiFi Link 6200	**PROJECT NUMBER:**	INTEL-090601
MODEL NUMBER:	622ANHMW	**TEST ENGINEER:**	JC
SERIAL NUMBER:	0015005A70A4	**SITE #:**	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	**TEMPERATURE:**	22 deg. C
		HUMIDITY:	46% RH
		TIME:	9:00 AM

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 -27dBm/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 -27dBm/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. For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

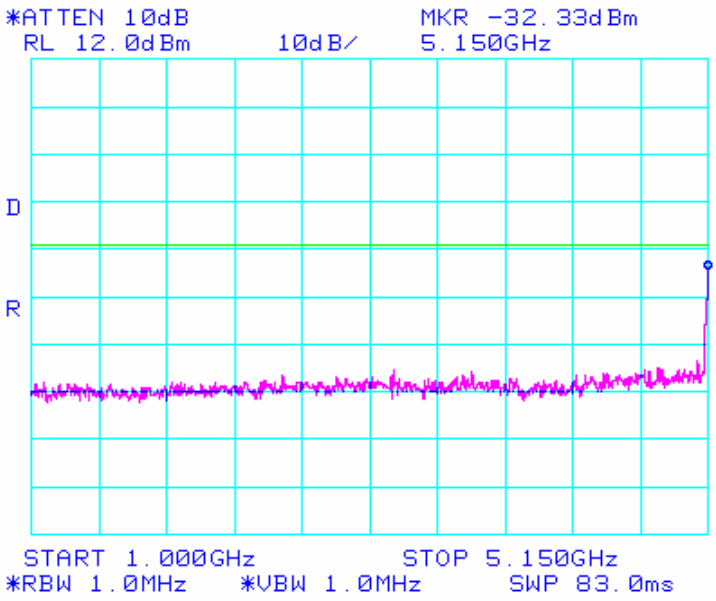
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	A	JC



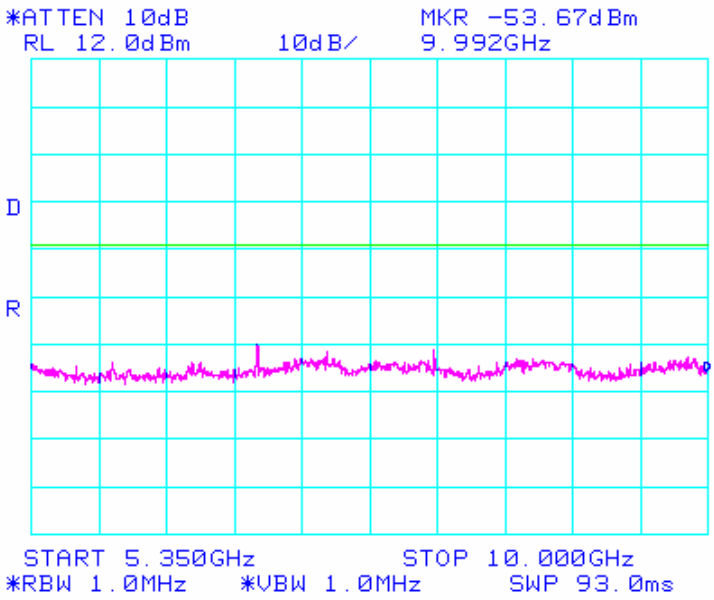
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	A	JC



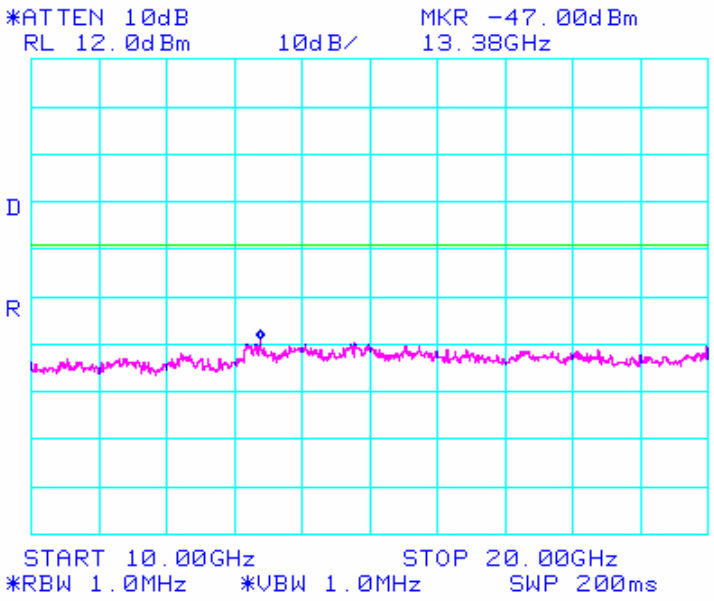
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	A	JC



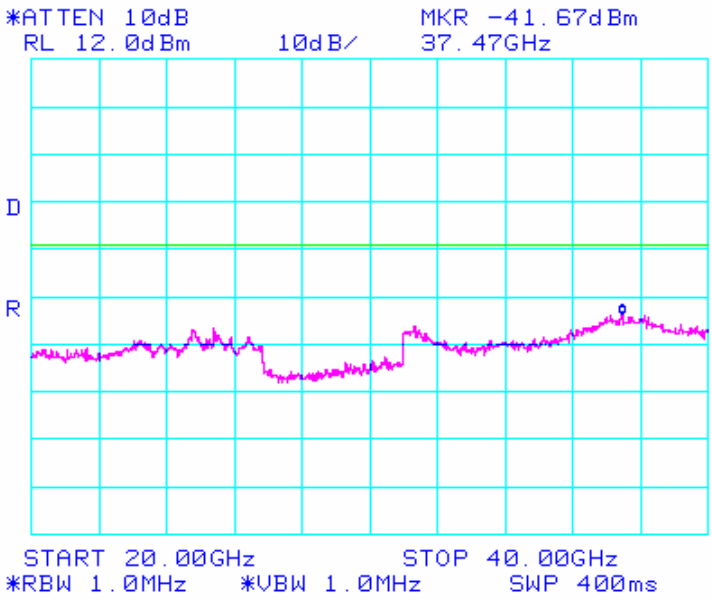
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

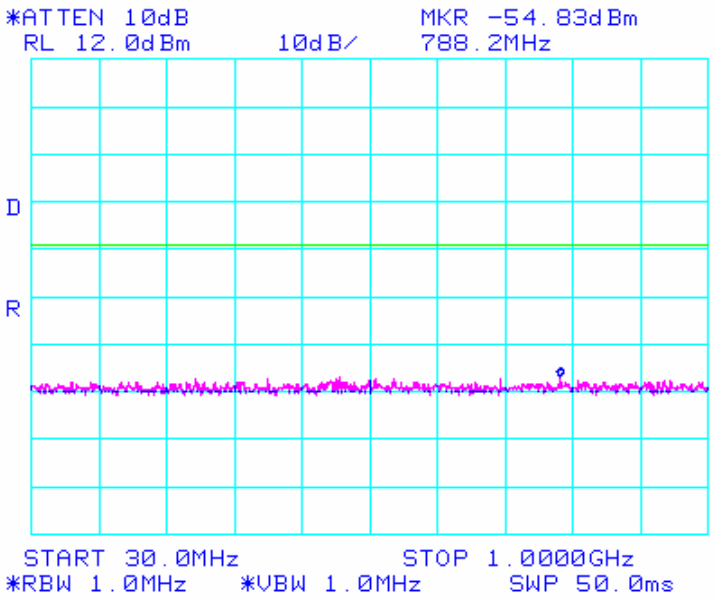
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	A	JC



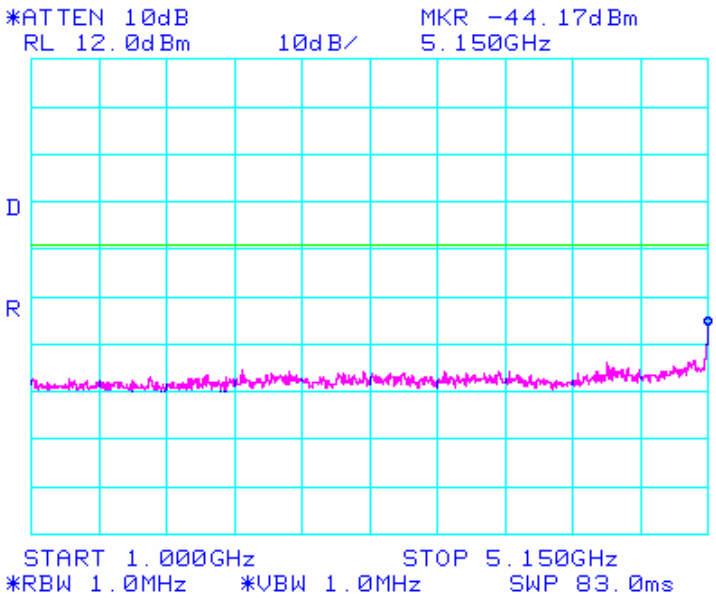
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	A	JC



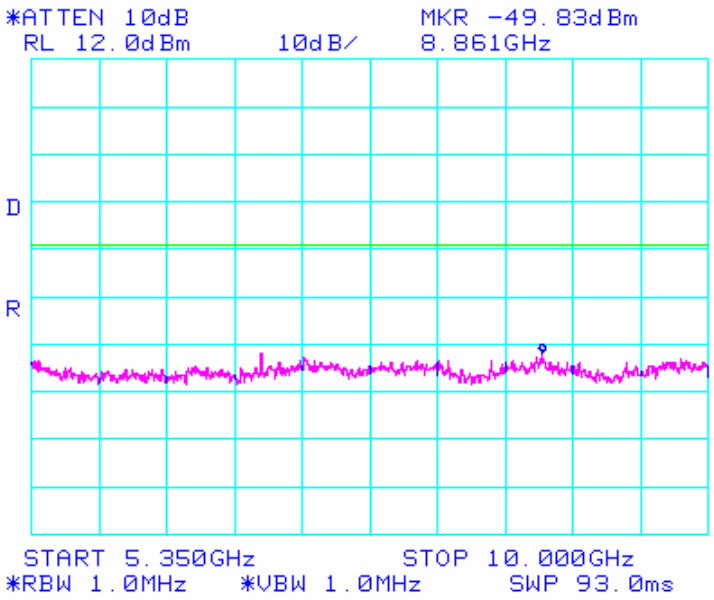
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	A	JC



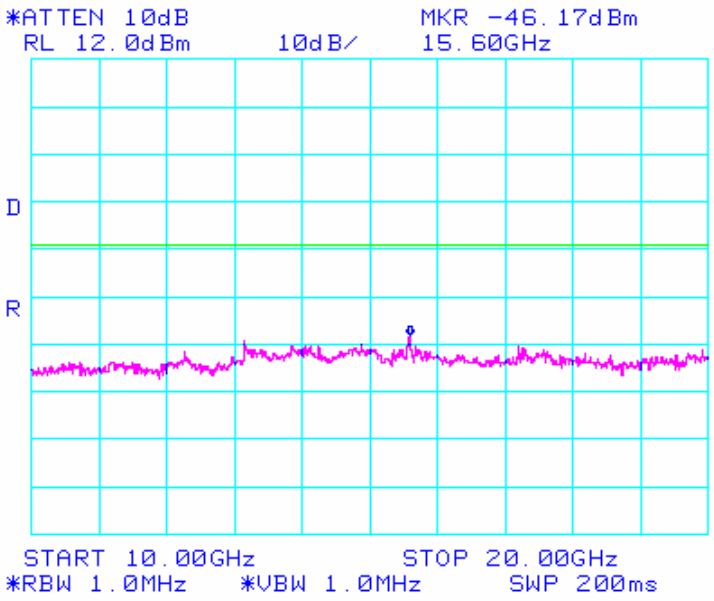
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	A	JC



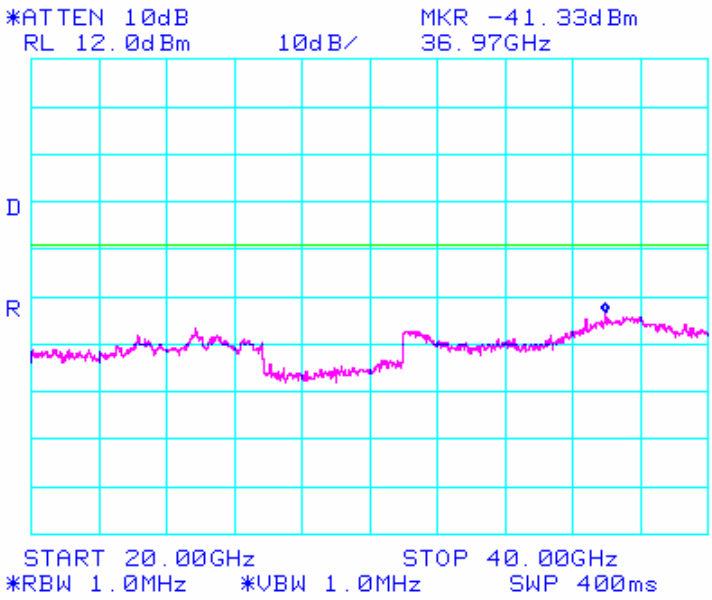
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

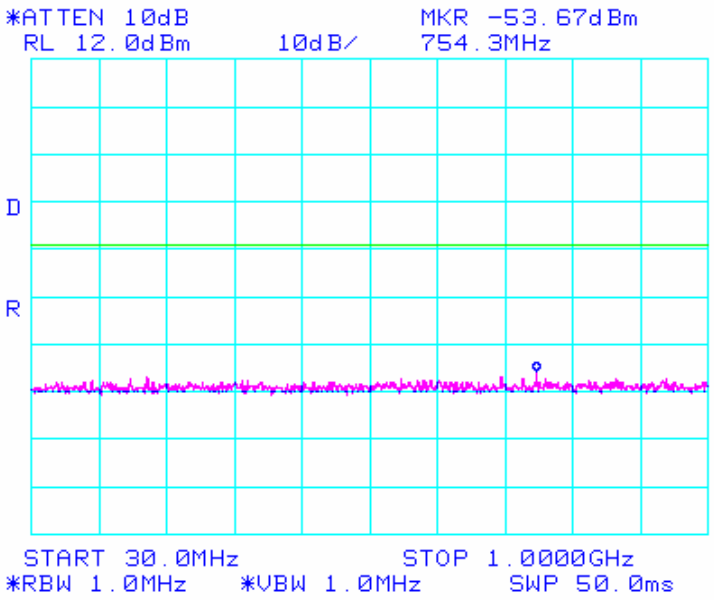
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	A	JC



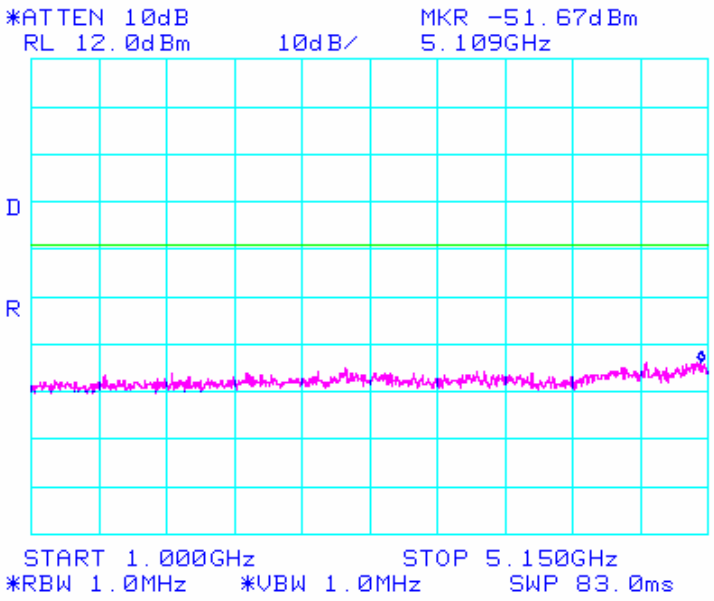
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	A	JC



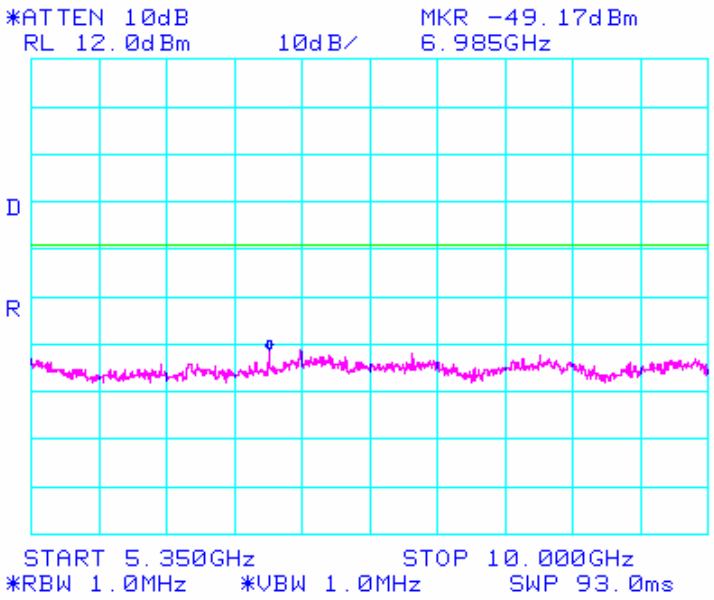
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	A	JC



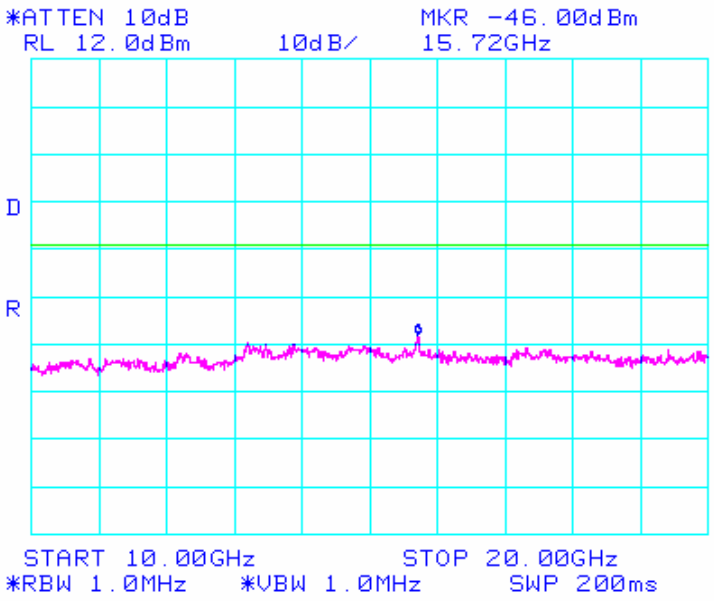
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	A	JC



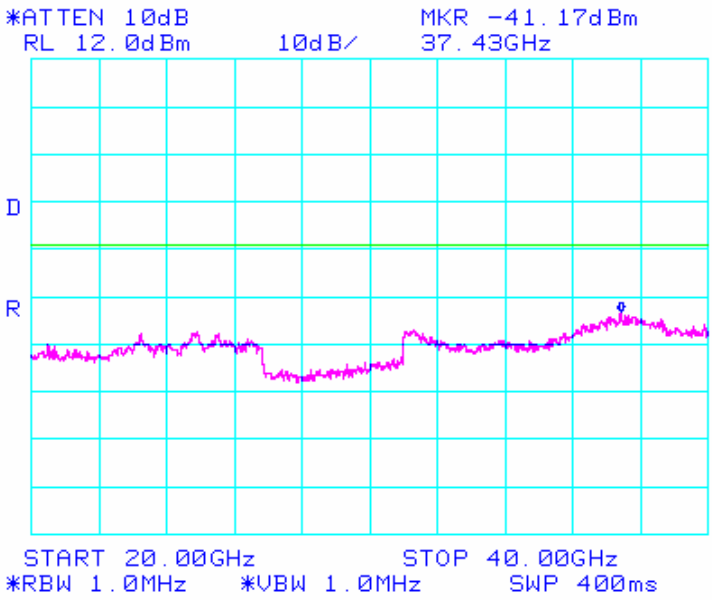
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

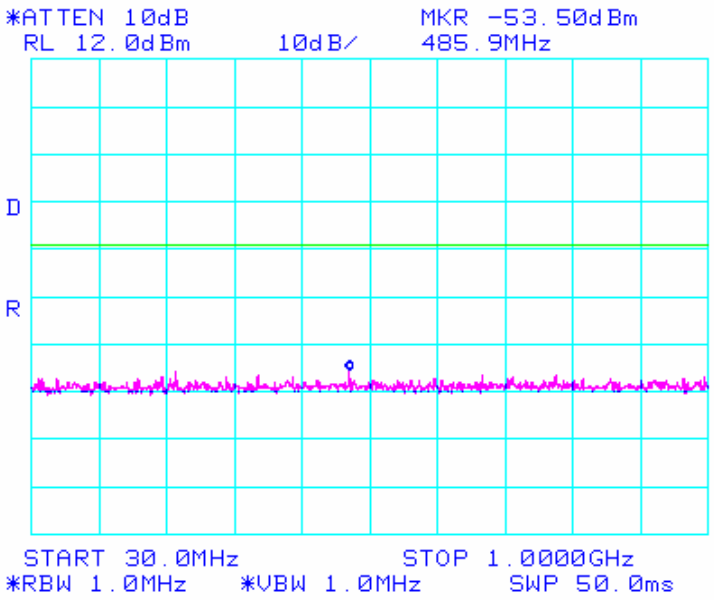
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	A	JC



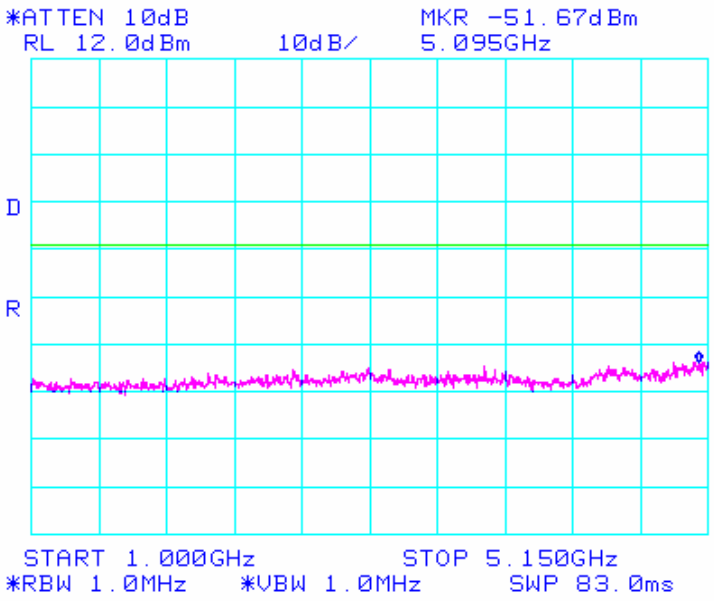
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	A	JC



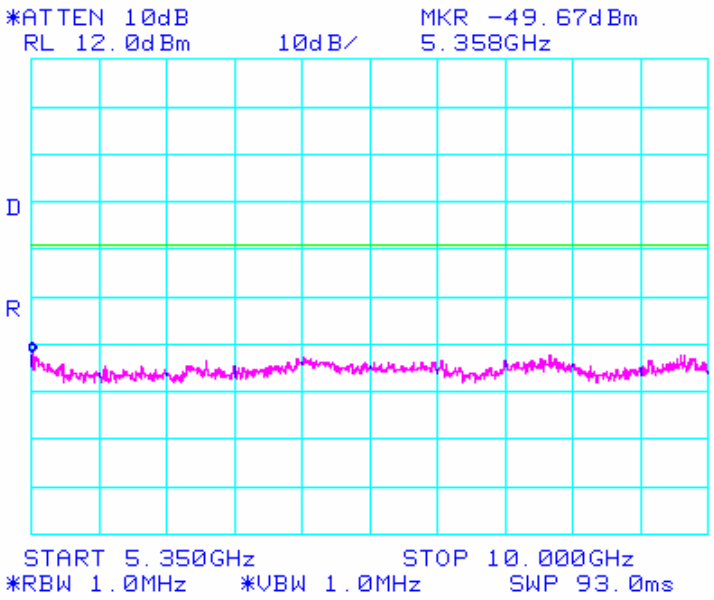
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	A	JC



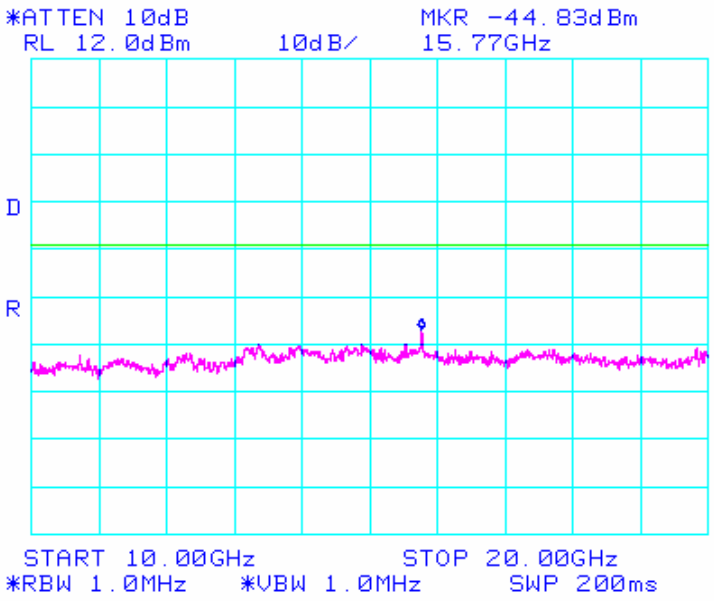
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	A	JC



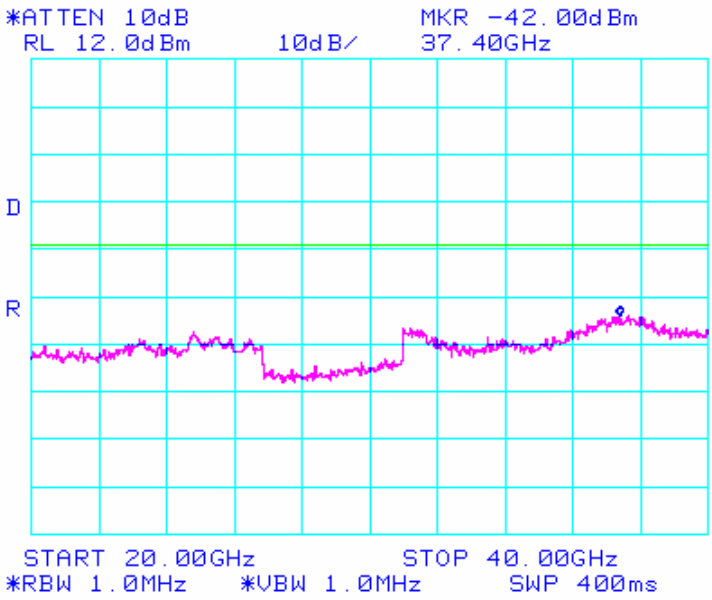
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

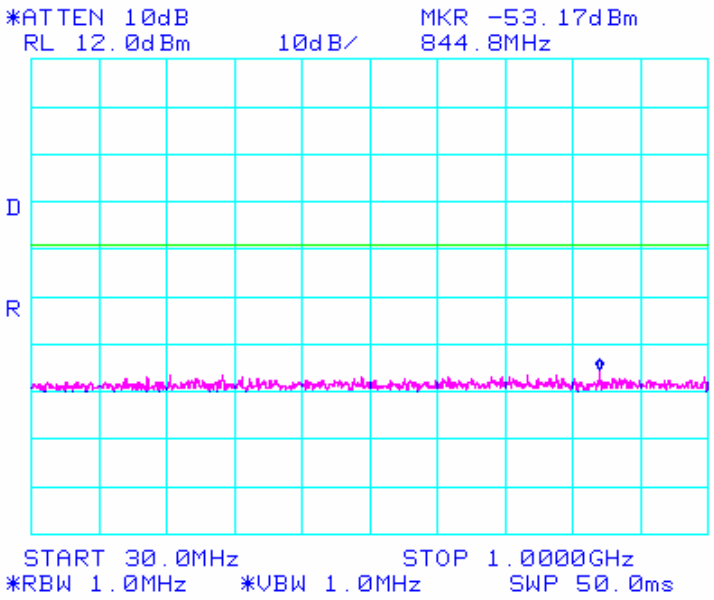
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	A	JC



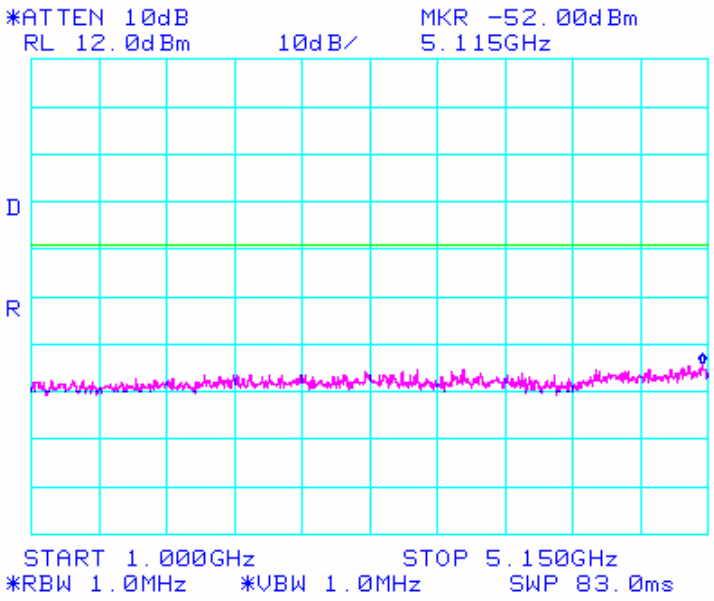
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	A	JC



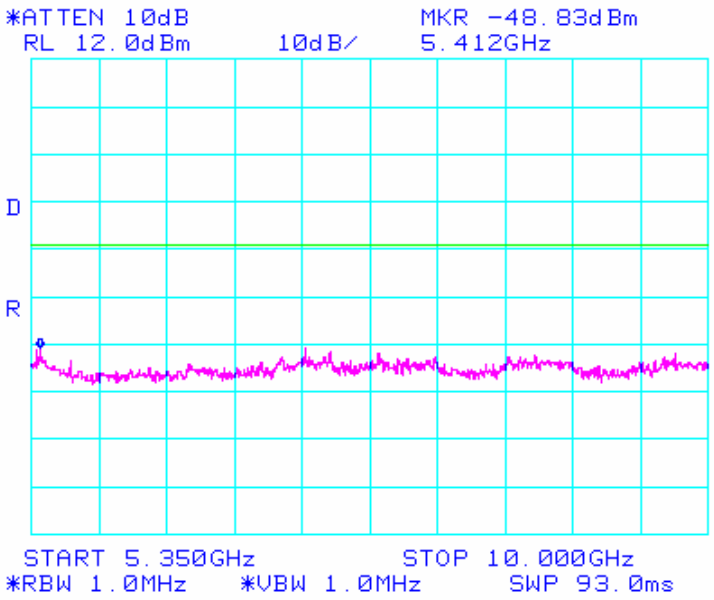
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	A	JC



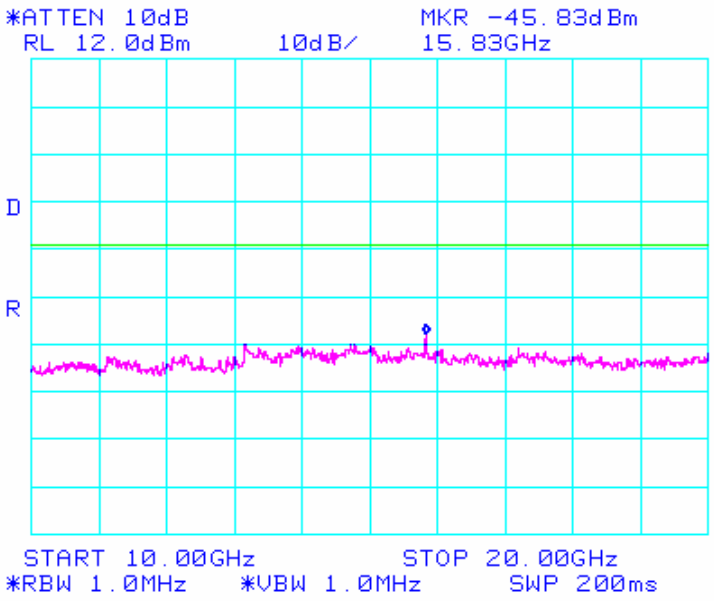
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	A	JC



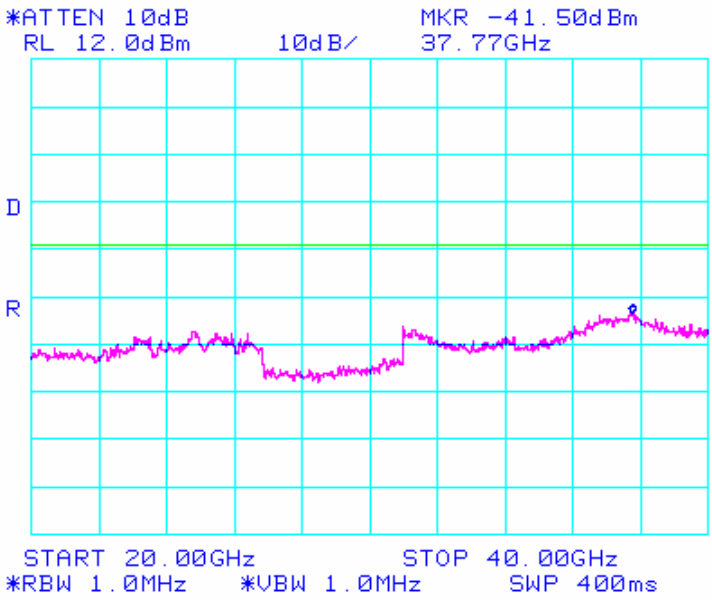
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

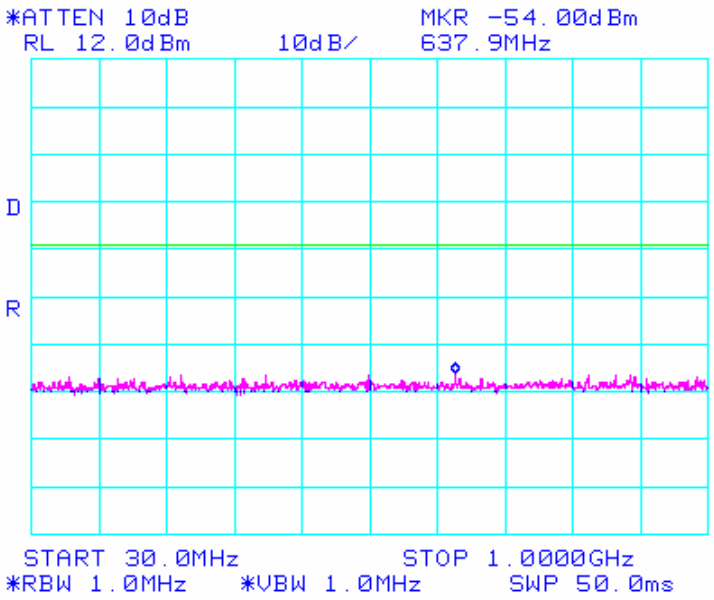
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	A	JC



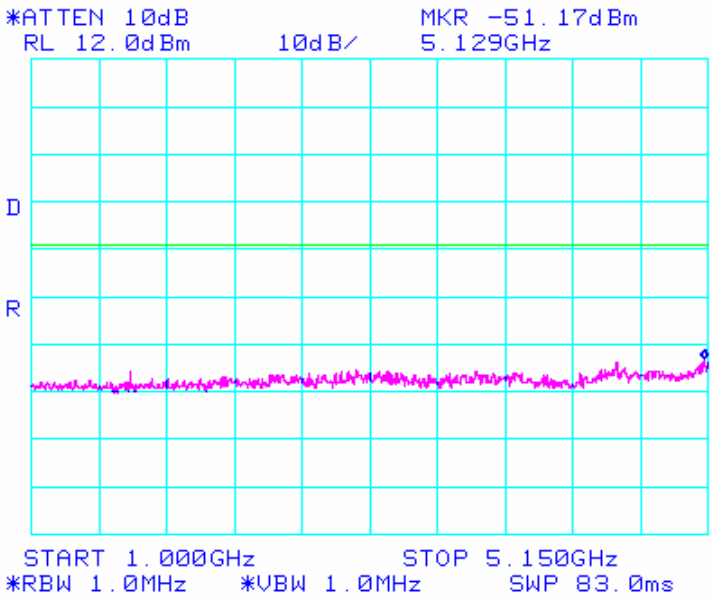
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	A	JC



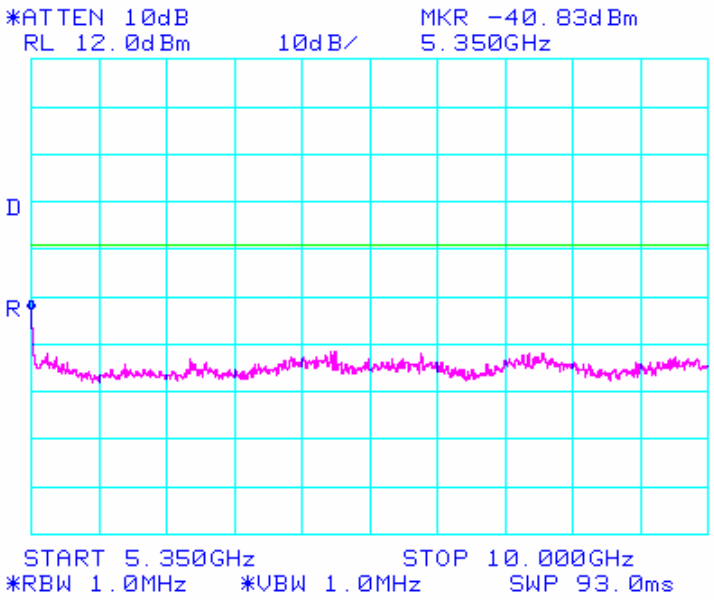
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	A	JC



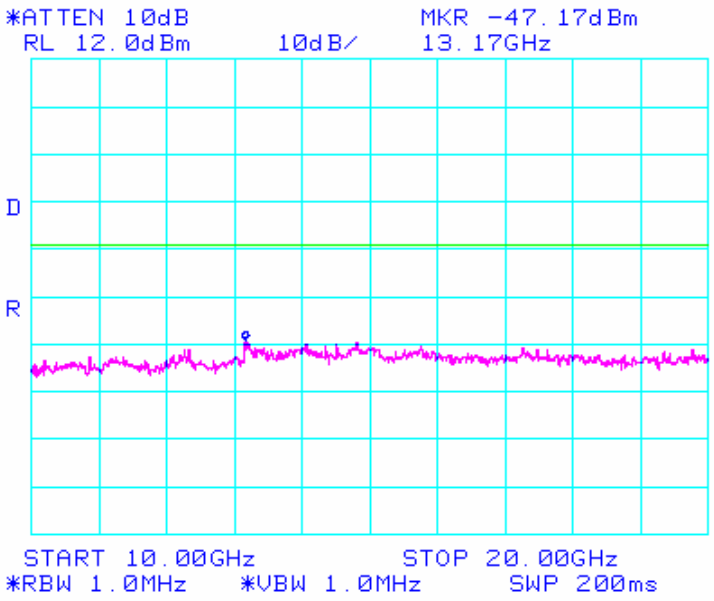
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	A	JC



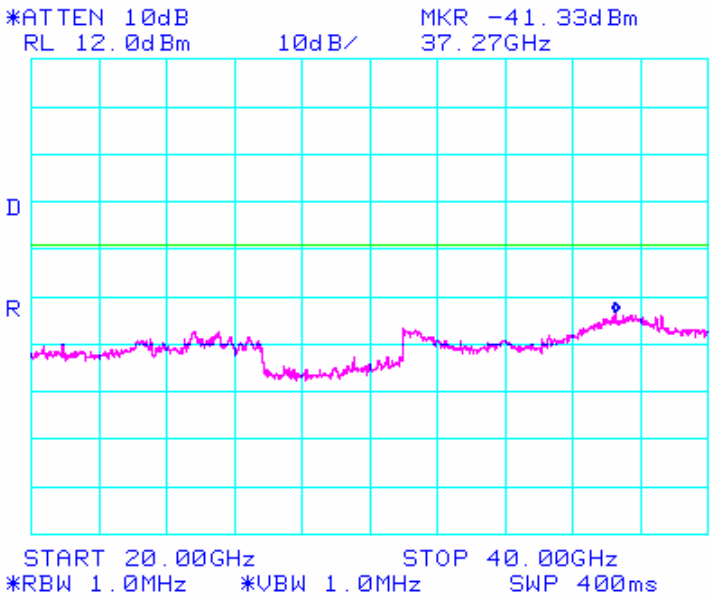
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

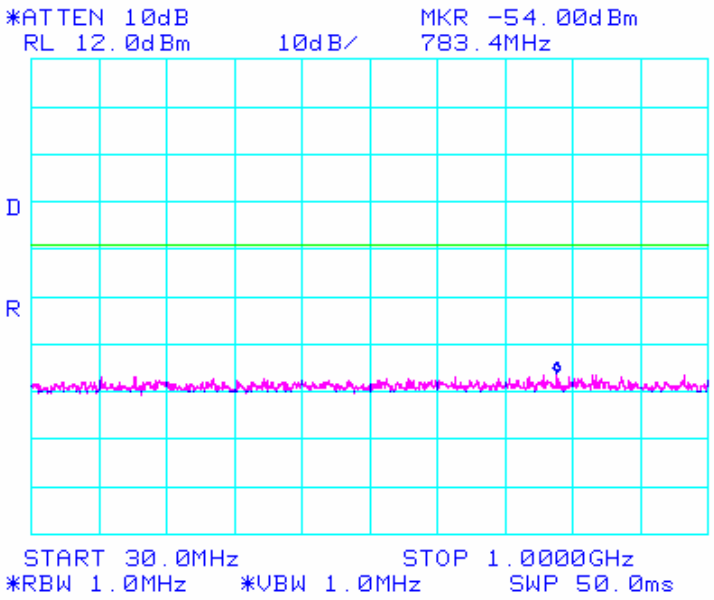
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	A	JC



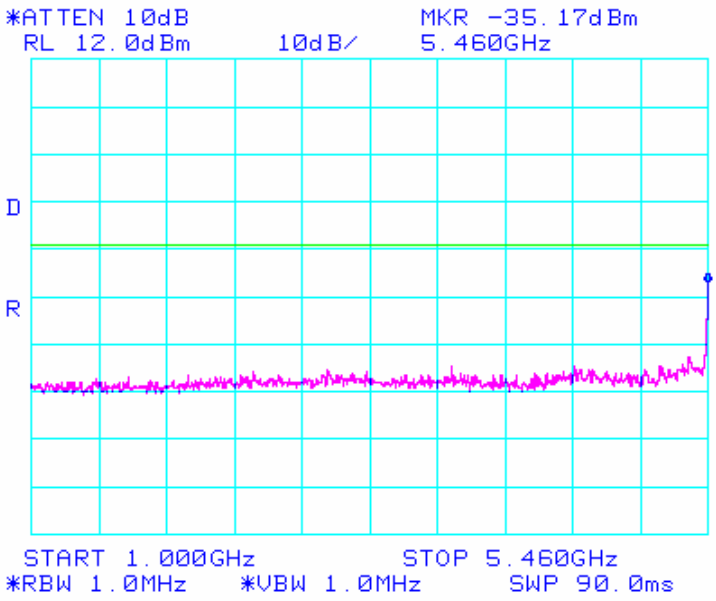
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	A	JC



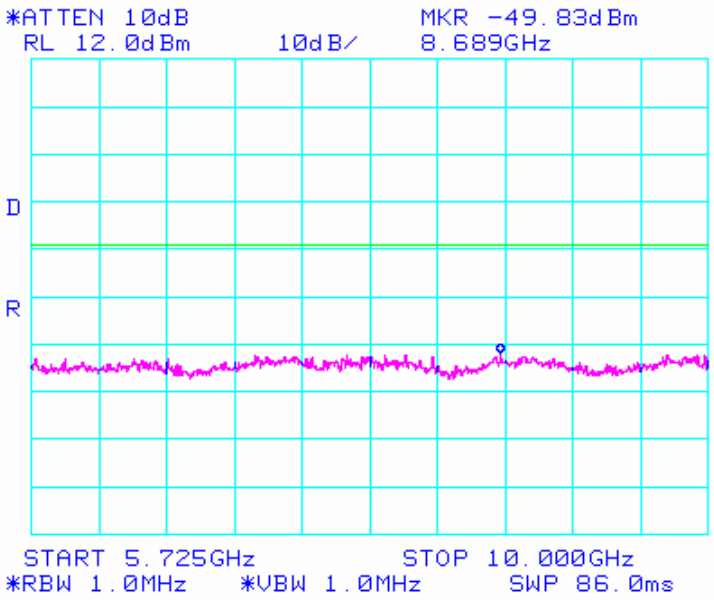
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	A	JC



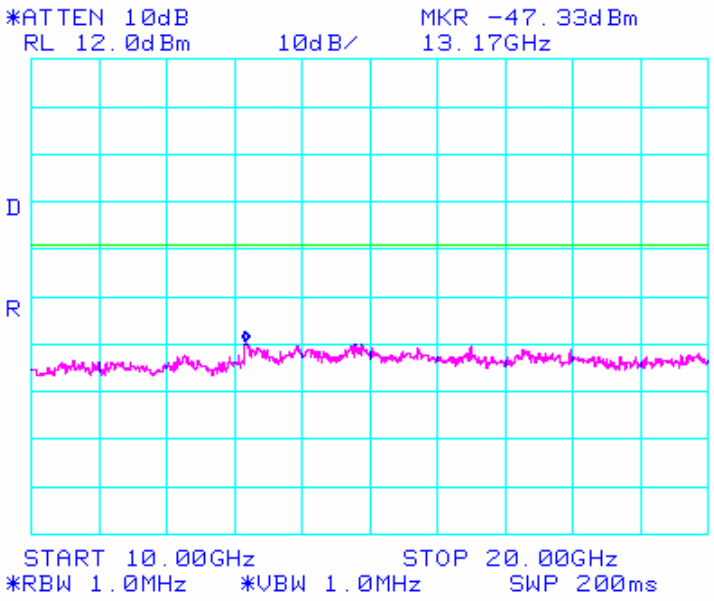
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	A	JC



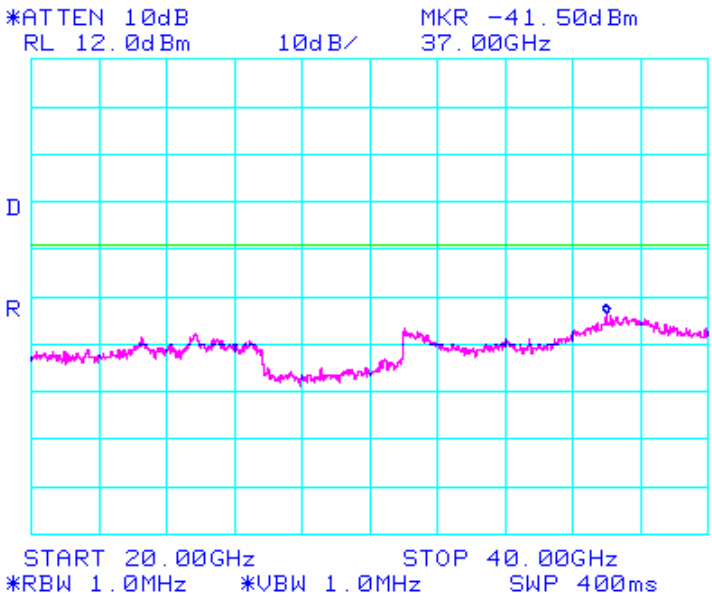
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

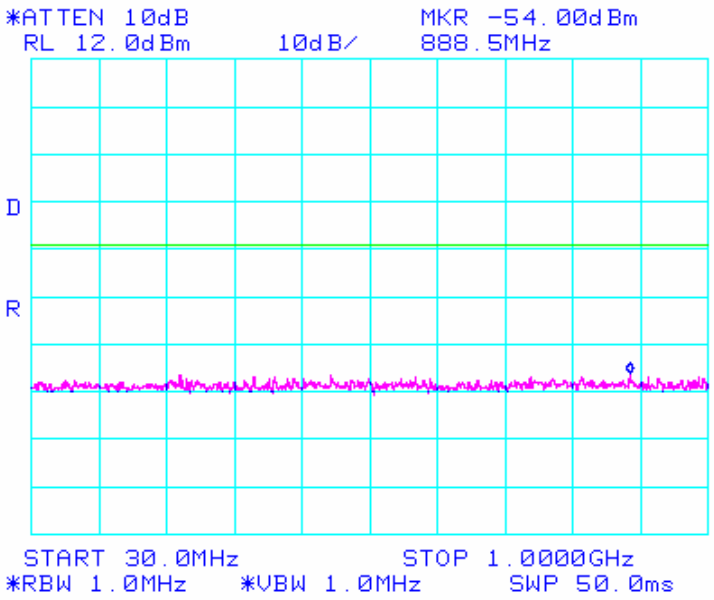
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	A	JC



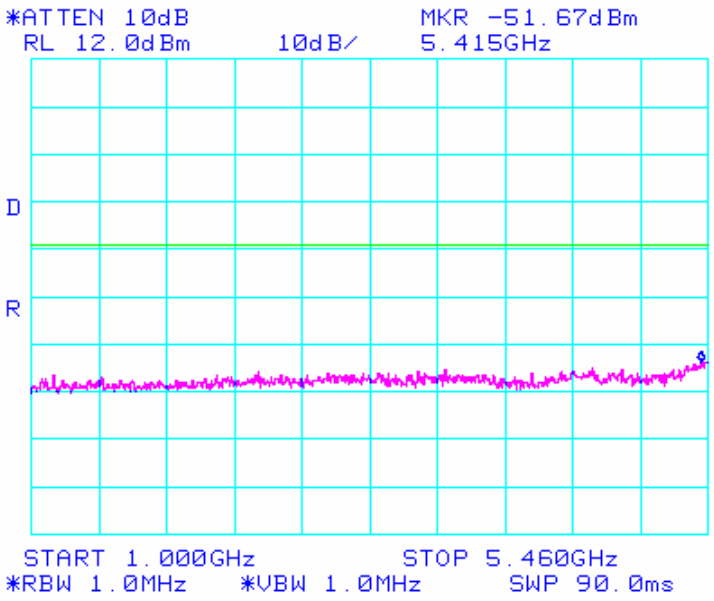
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	A	JC



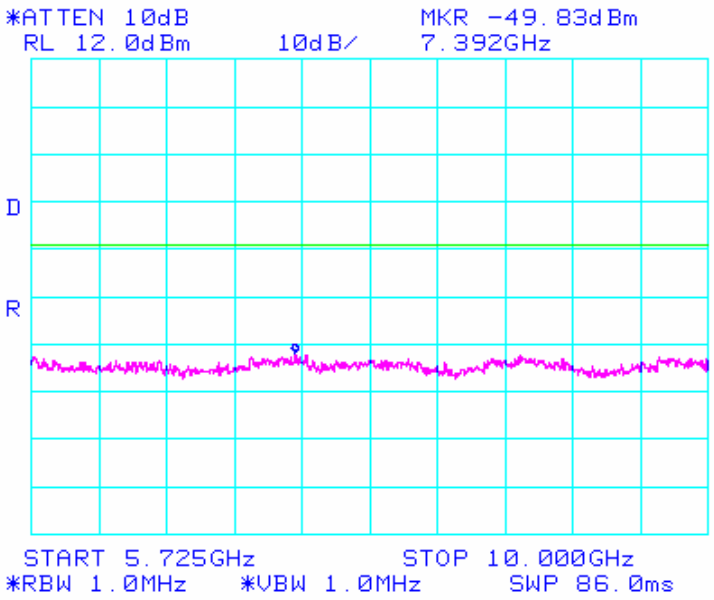
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	A	JC



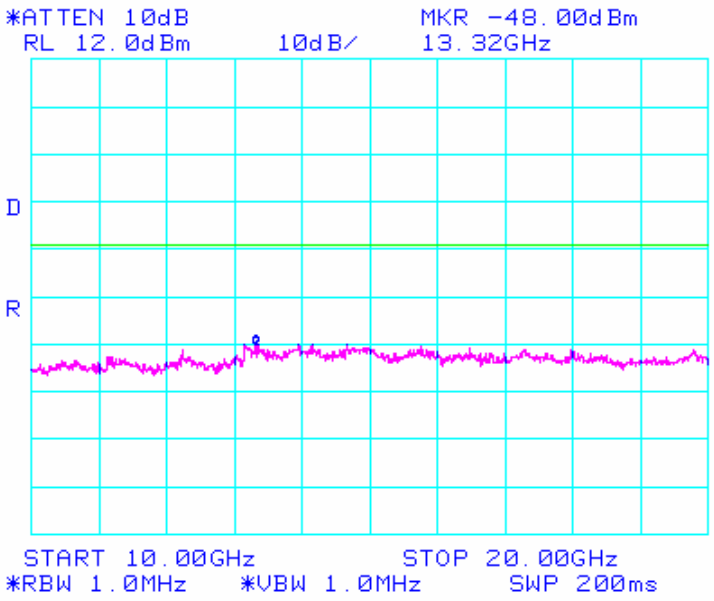
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	A	JC



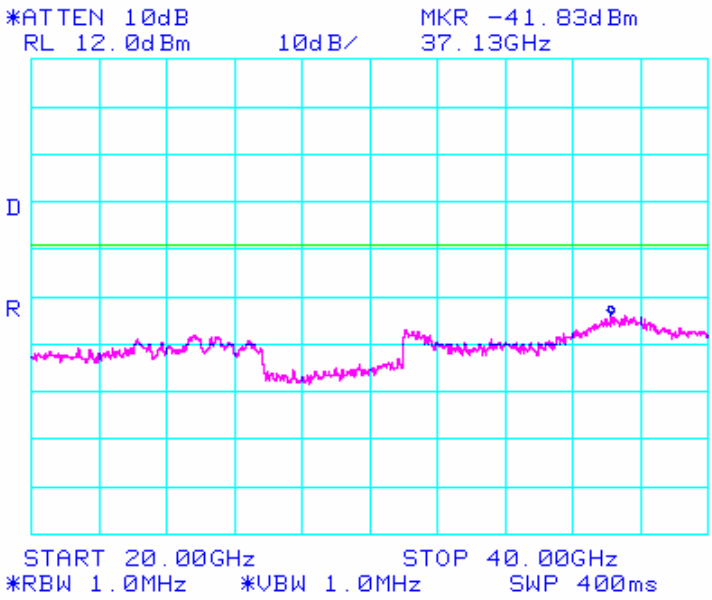
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

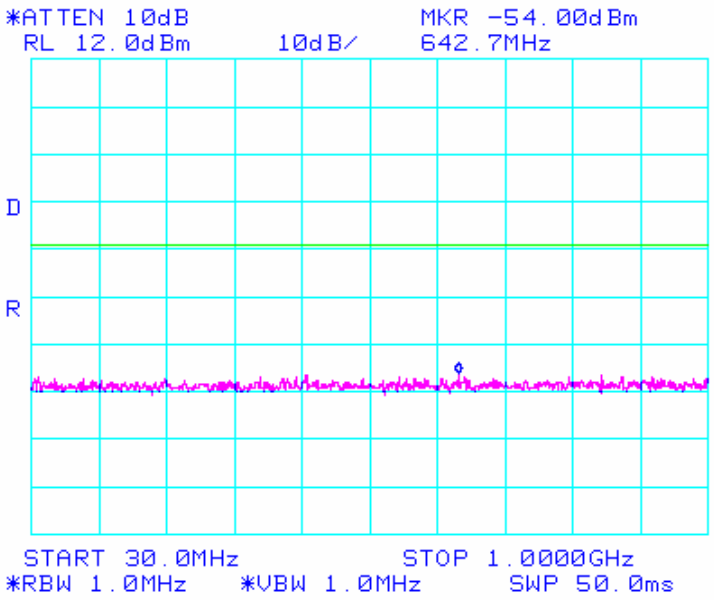
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	A	JC



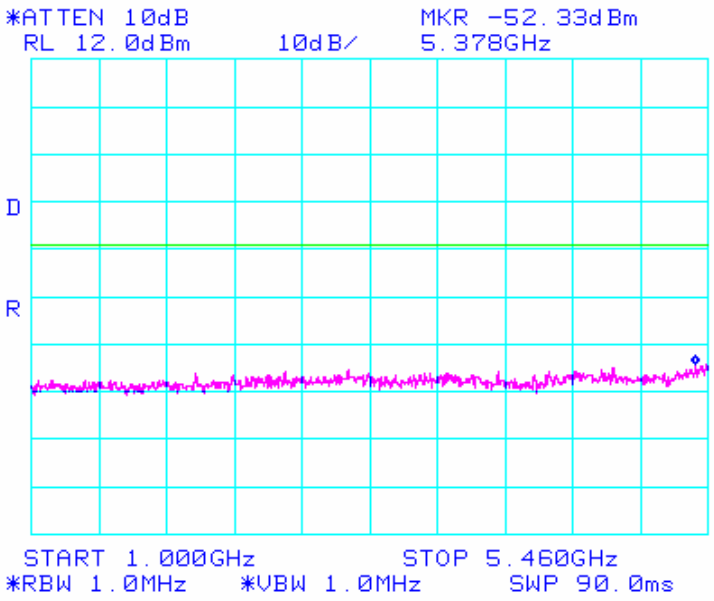
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	A	JC



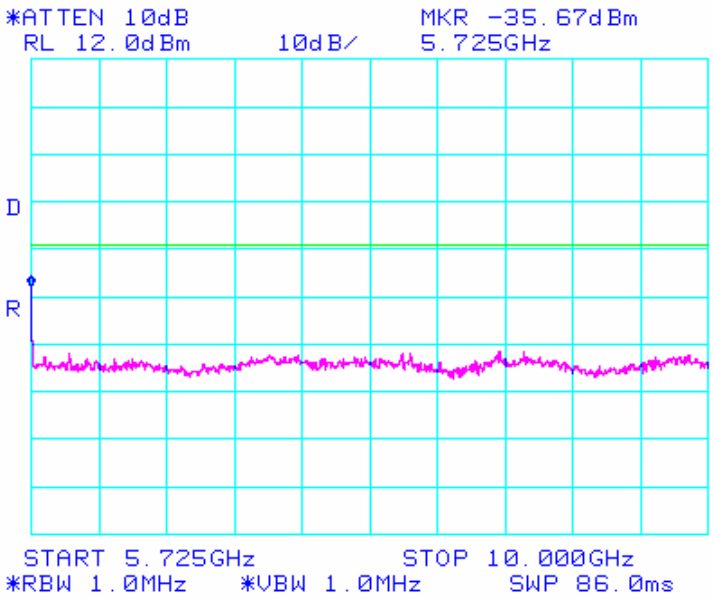
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	A	JC



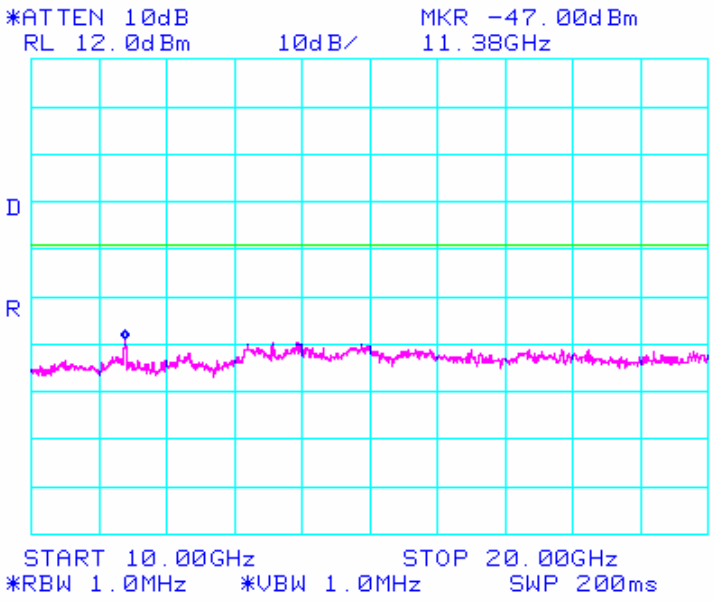
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	A	JC



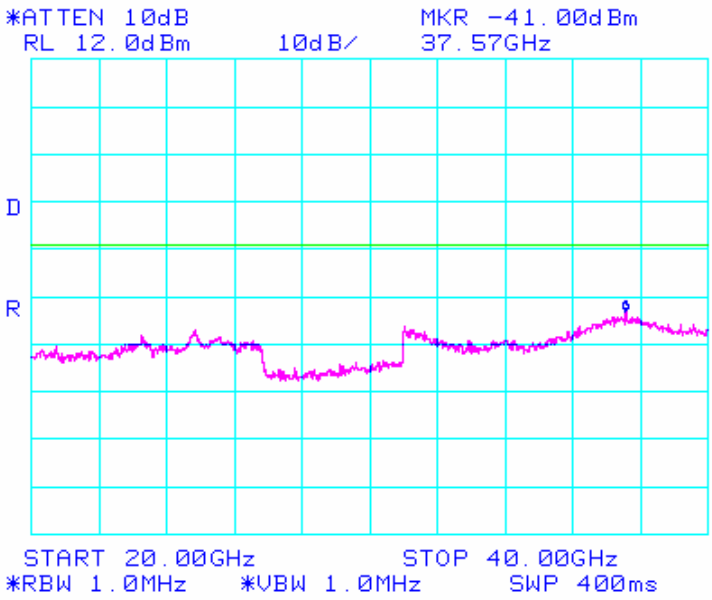
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

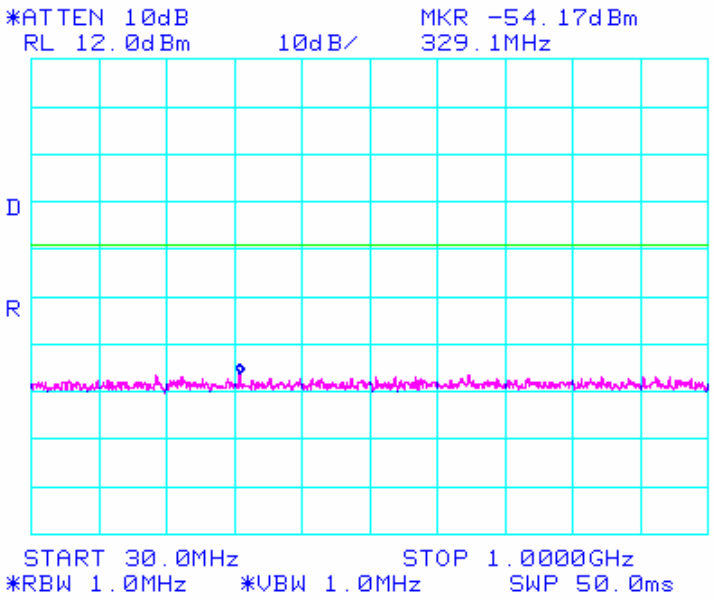
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	A	JC



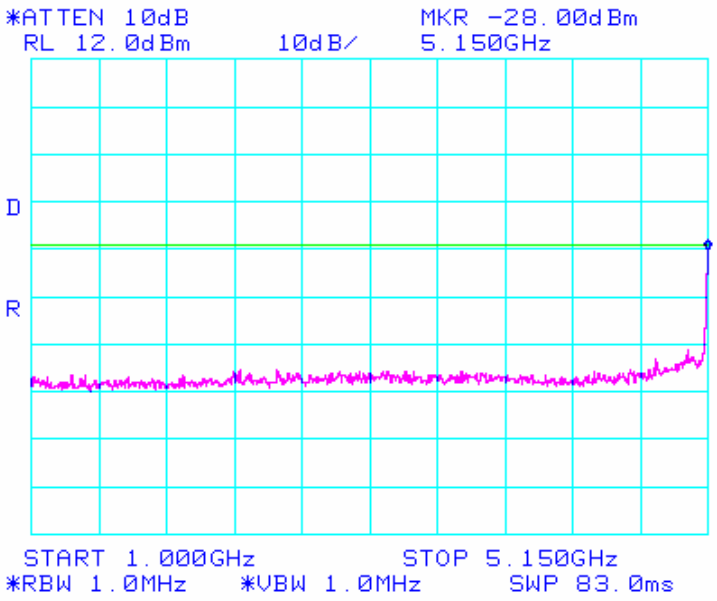
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	A	JC



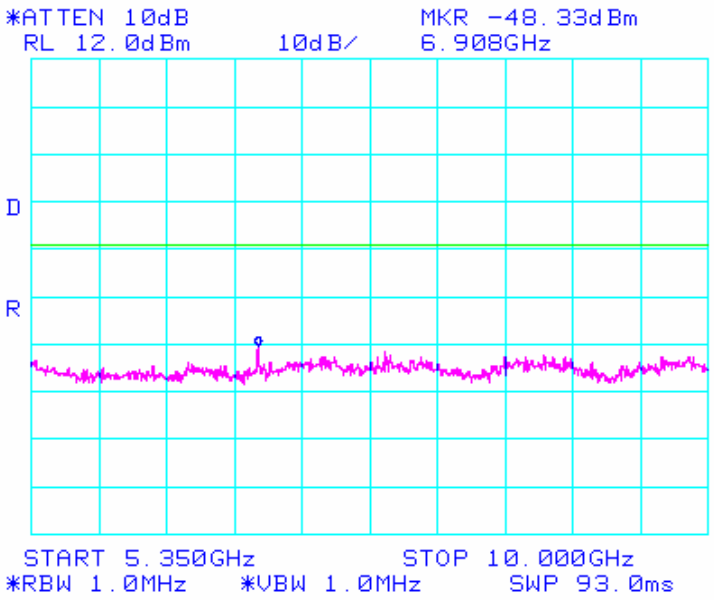
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	A	JC



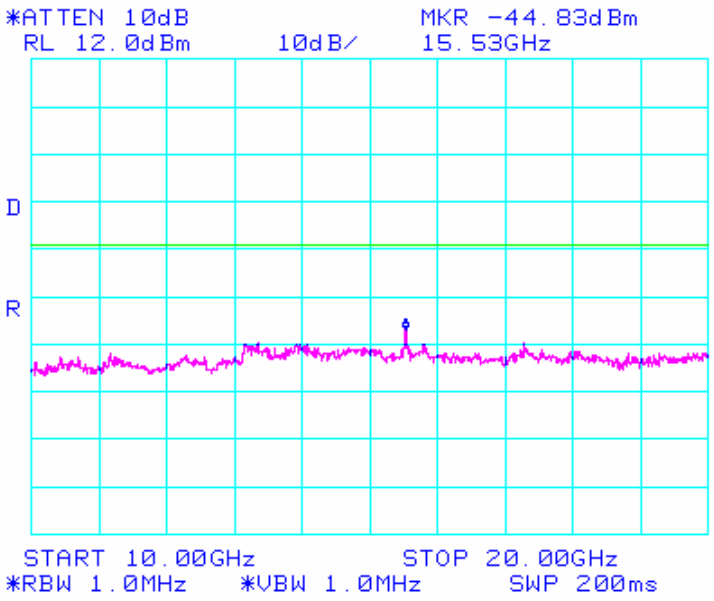
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	A	JC



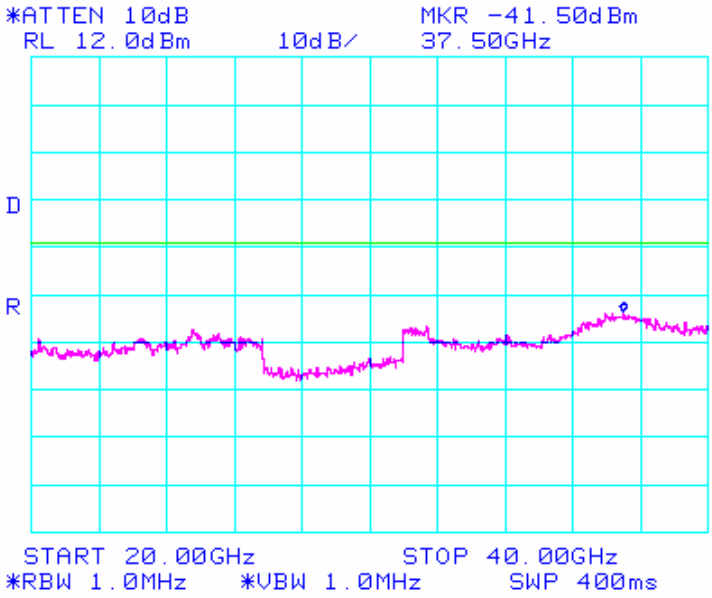
Test Date	*Data*	*Chain*	*Test Eng.*
05/30/08	5.18 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

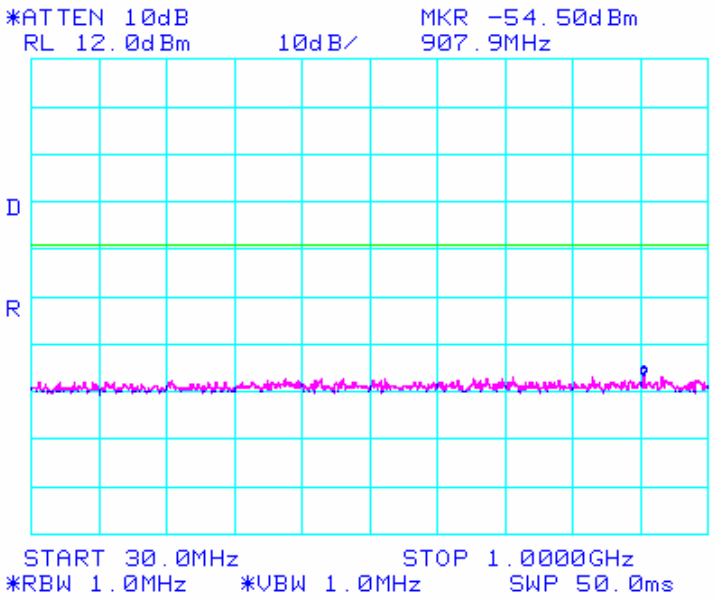
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	A	JC



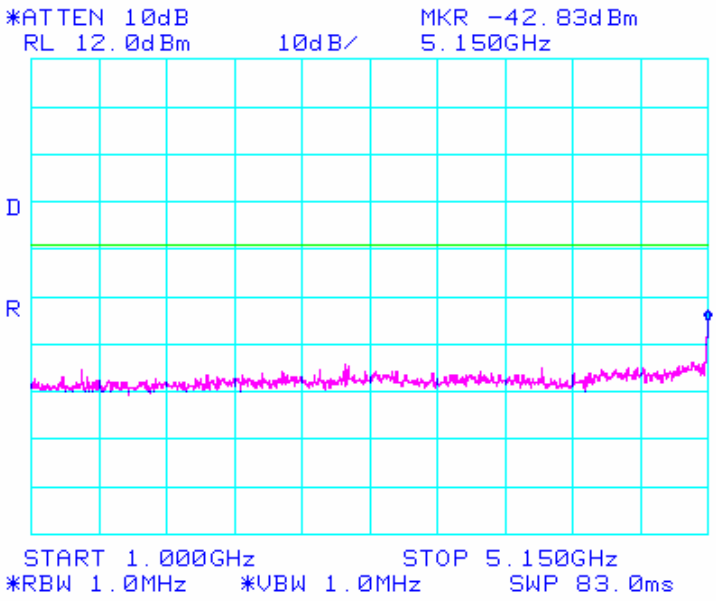
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	A	JC



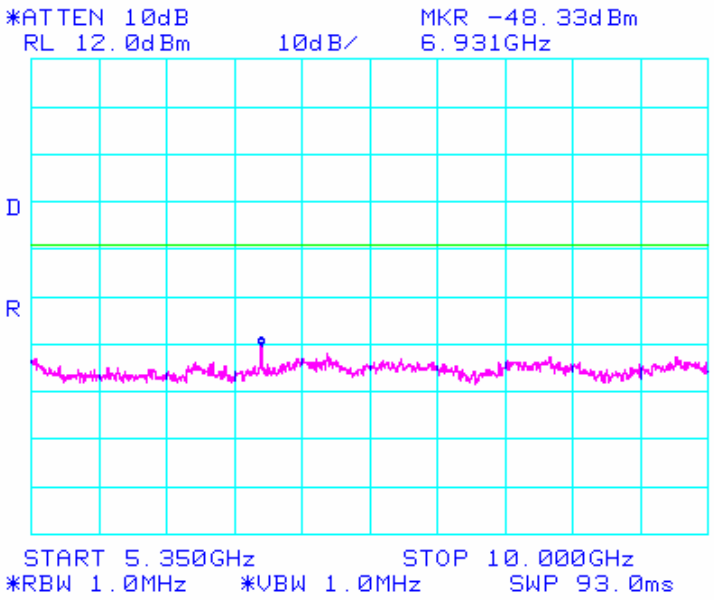
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	A	JC



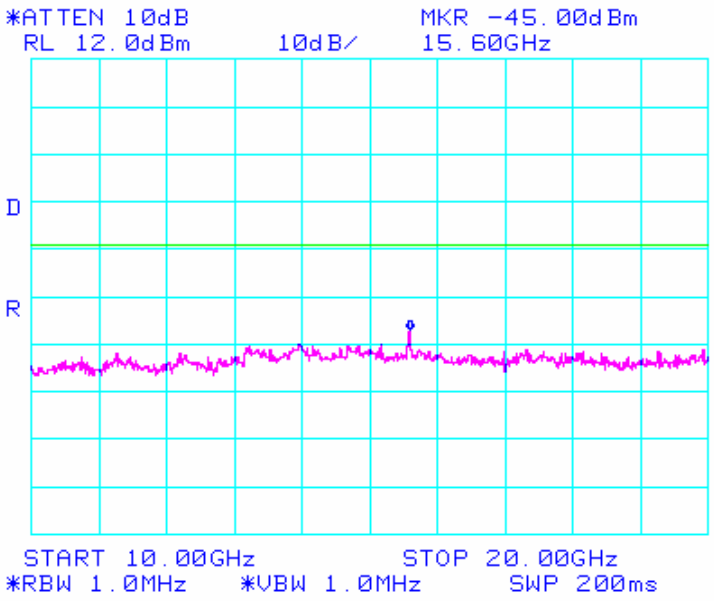
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	A	JC



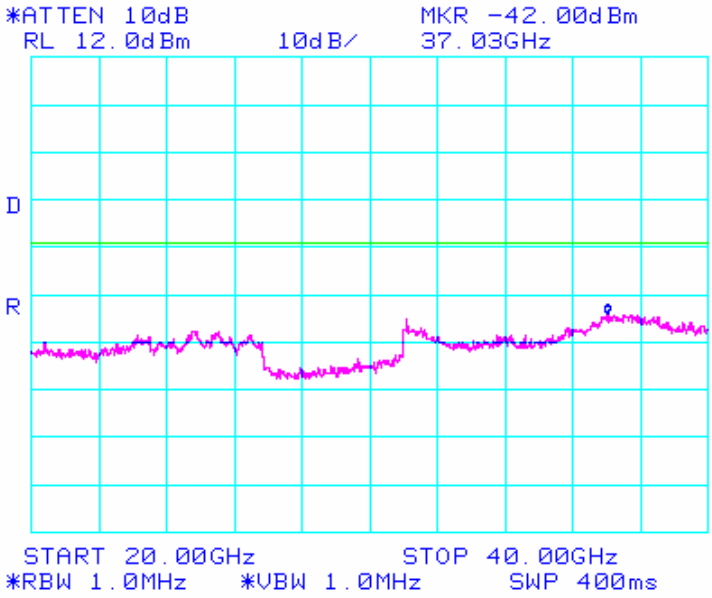
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

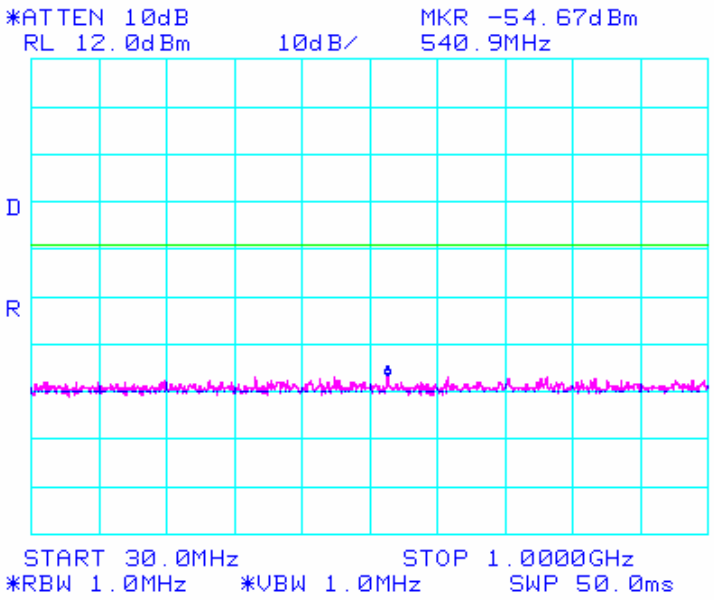
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	A	JC



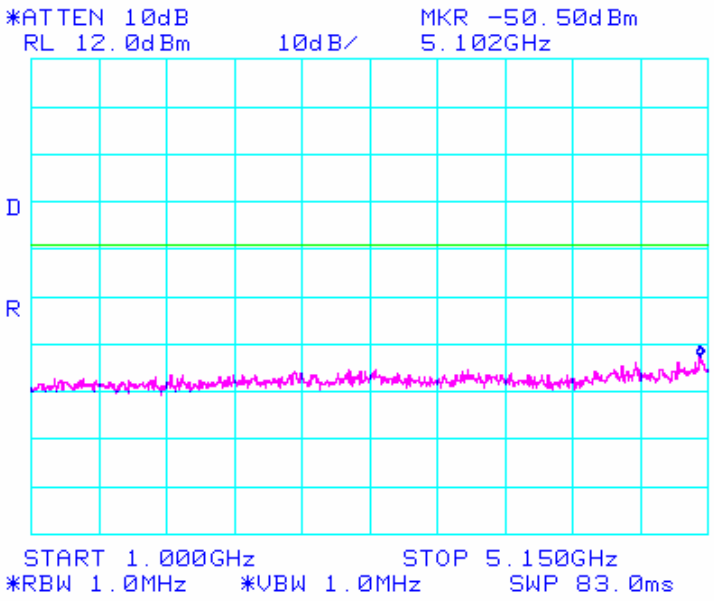
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	A	JC



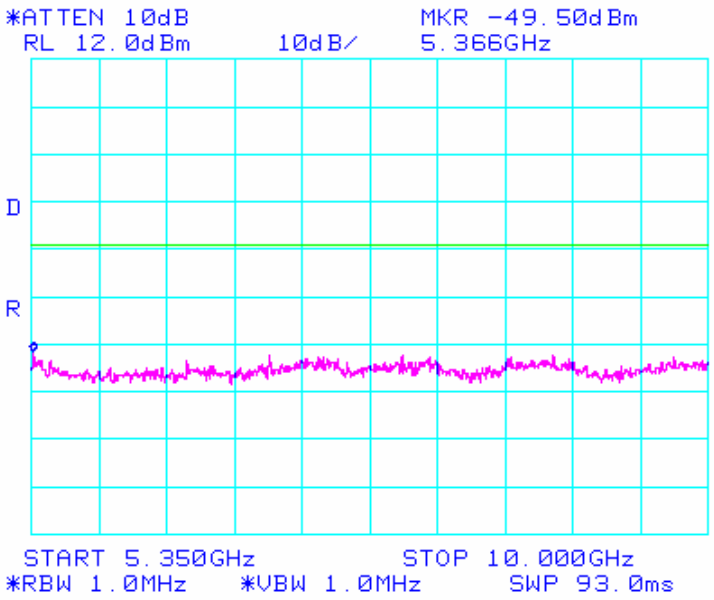
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	A	JC



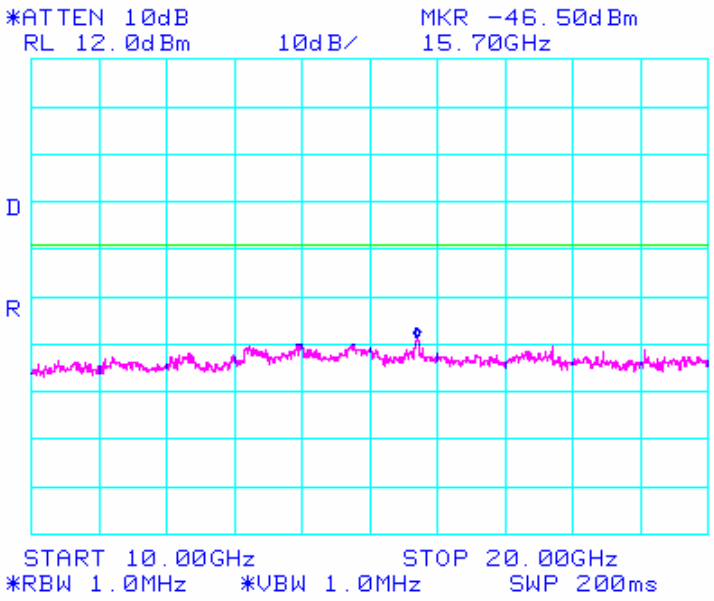
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	A	JC



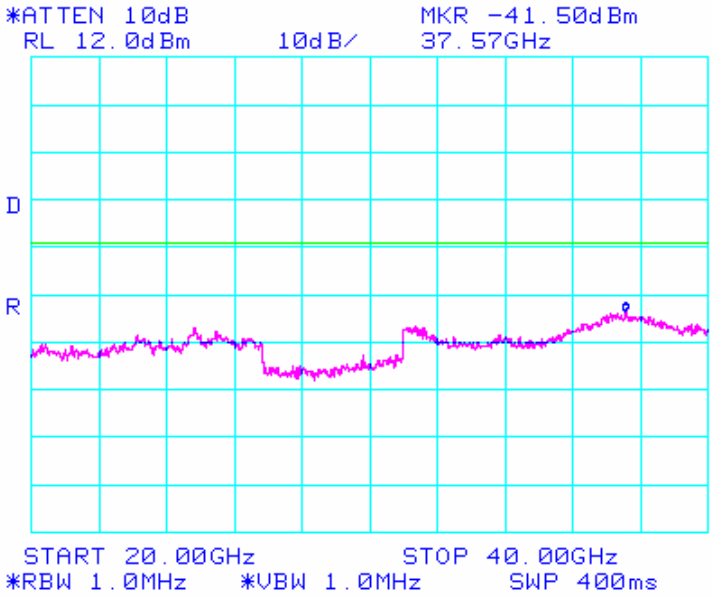
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

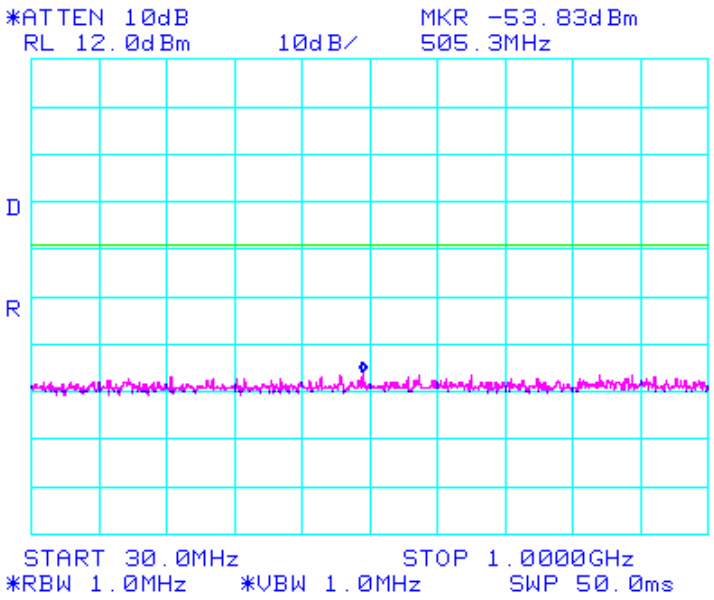
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	A	JC



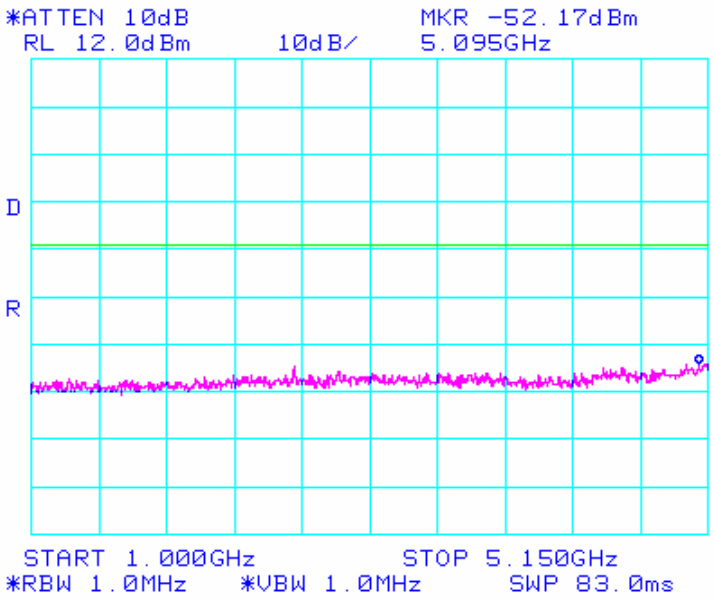
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	A	JC



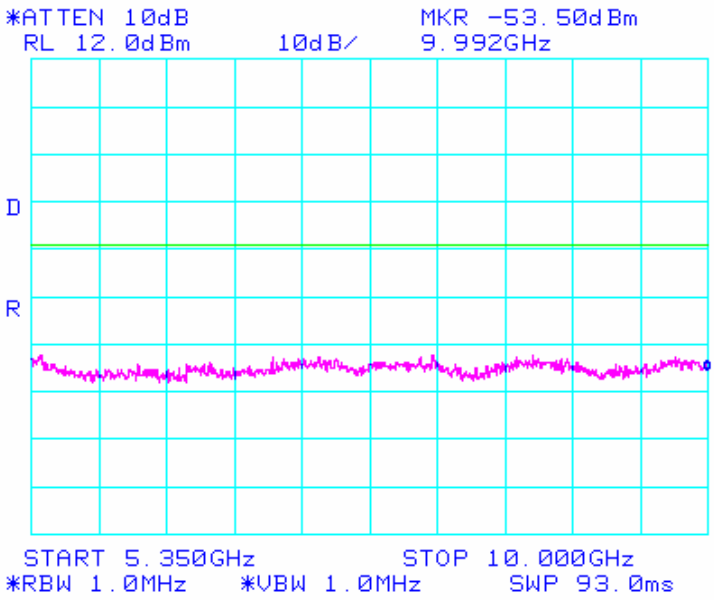
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	A	JC



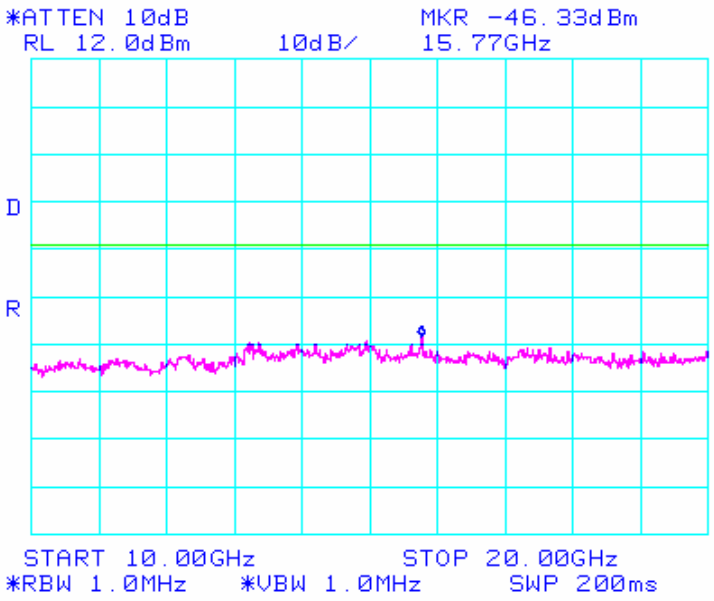
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	A	JC



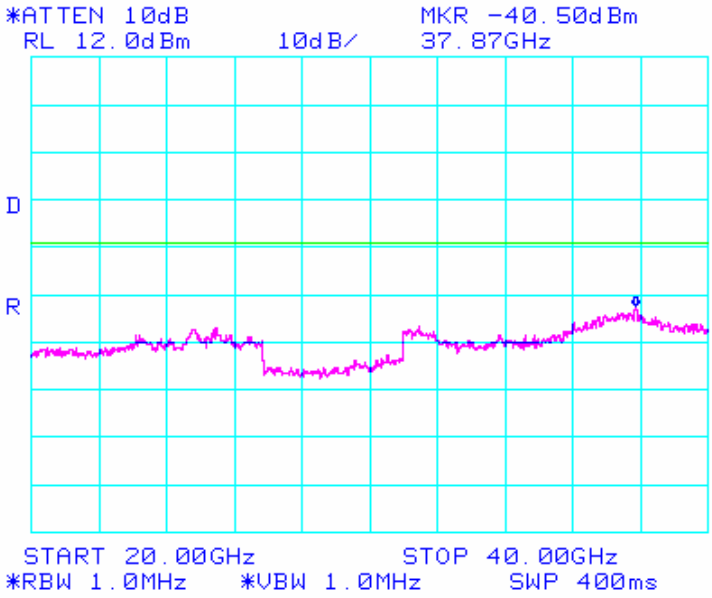
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

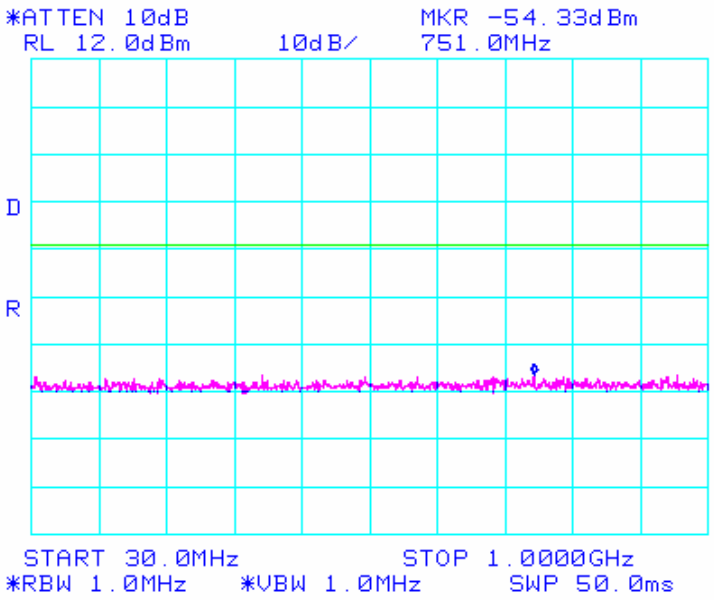
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	A	JC



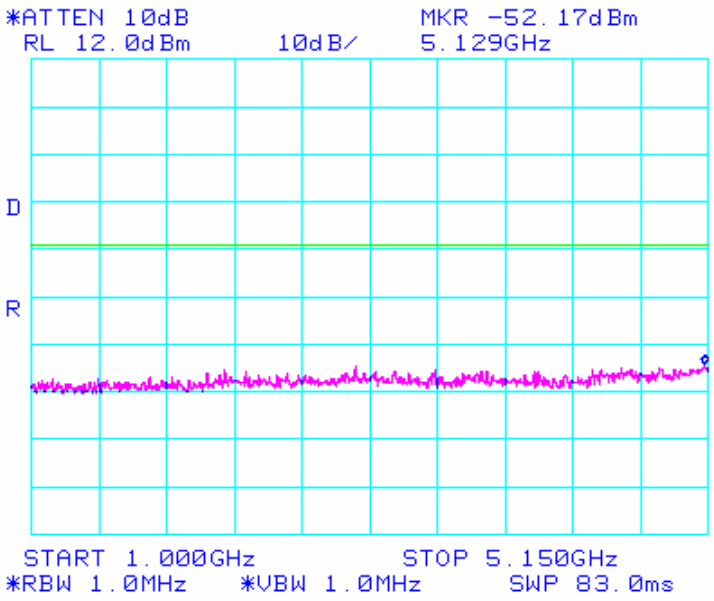
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	A	JC



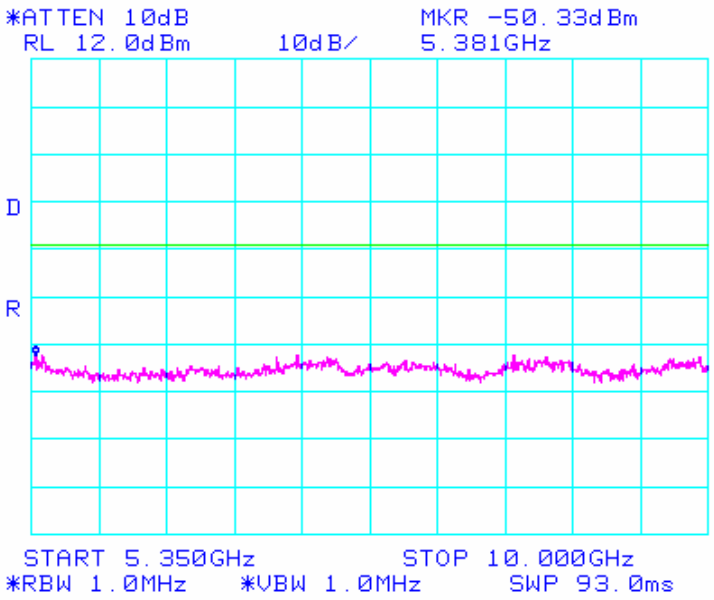
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	A	JC



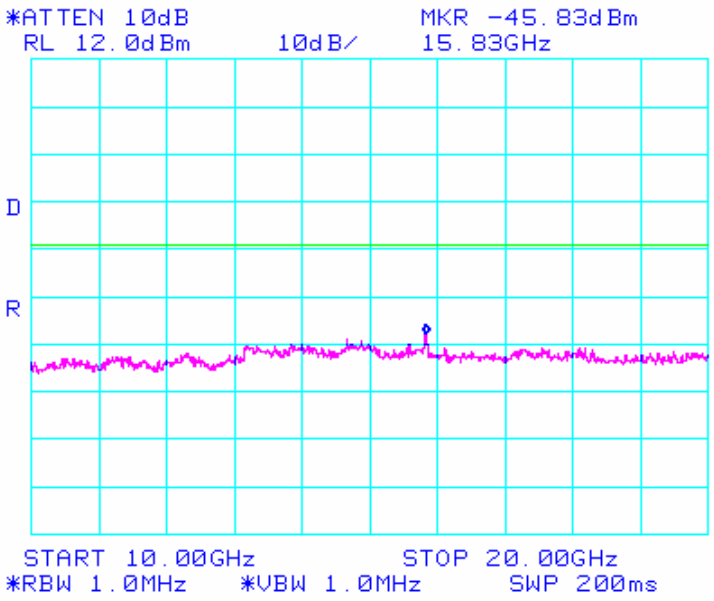
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	A	JC



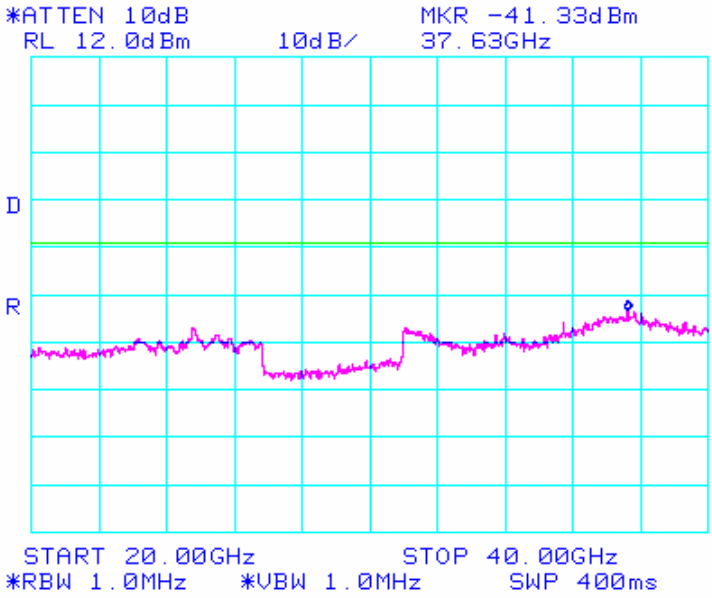
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

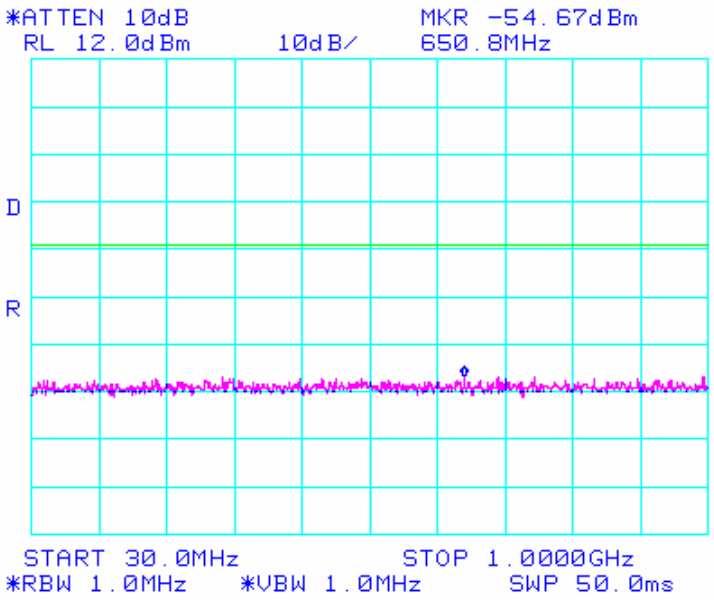
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	A	JC



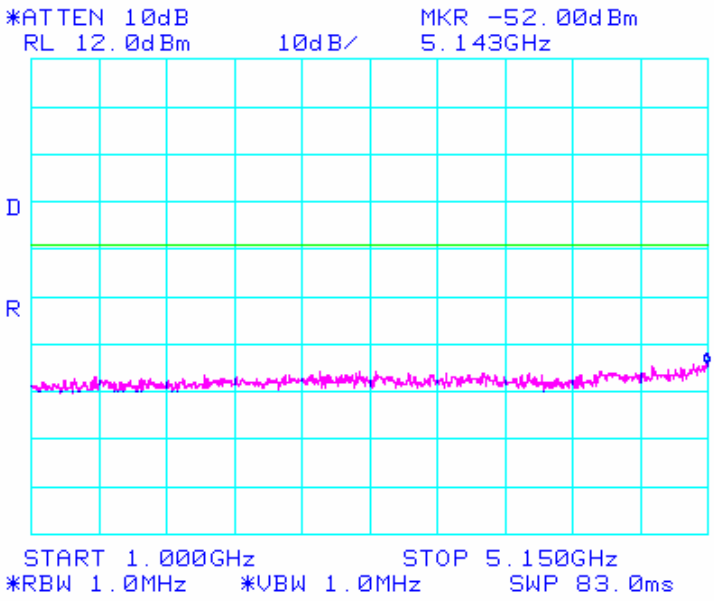
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	A	JC



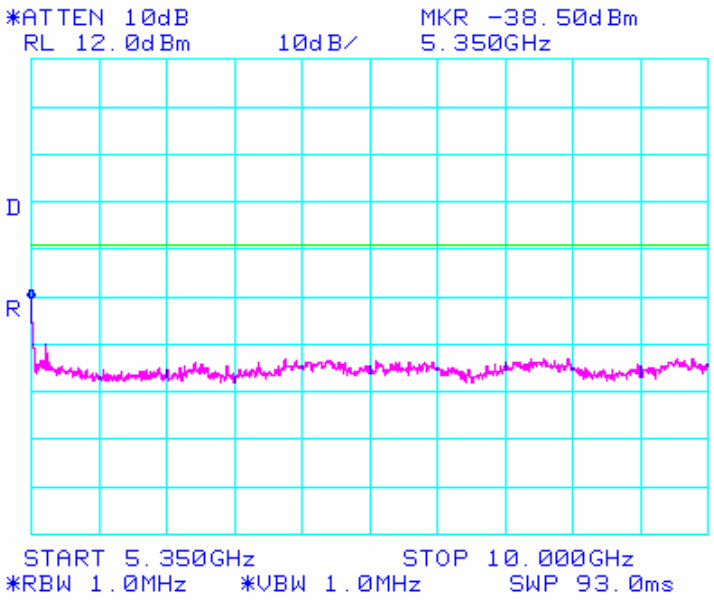
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	A	JC



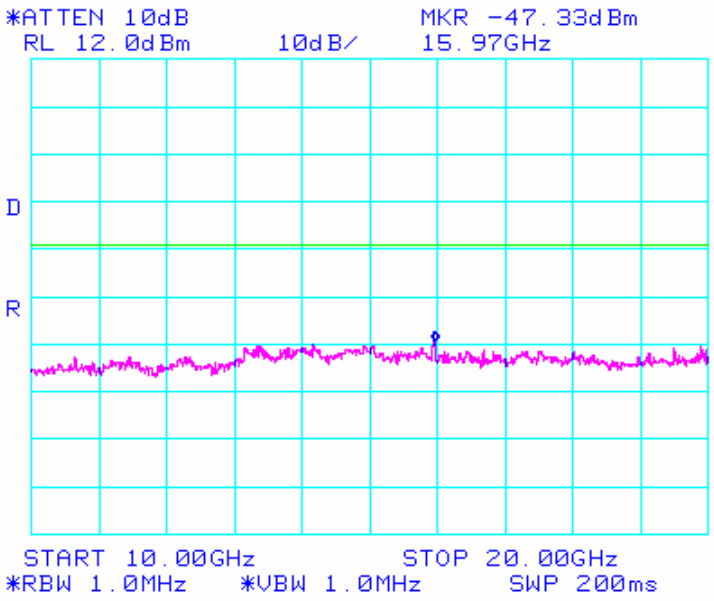
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	A	JC



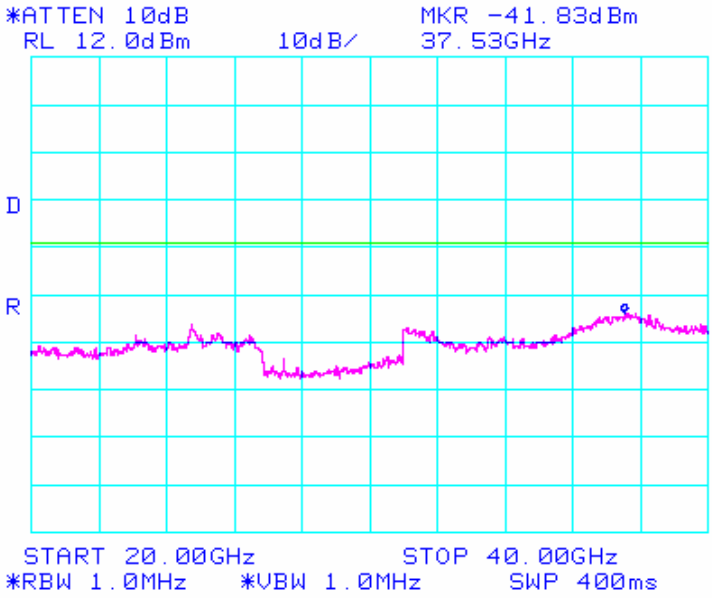
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

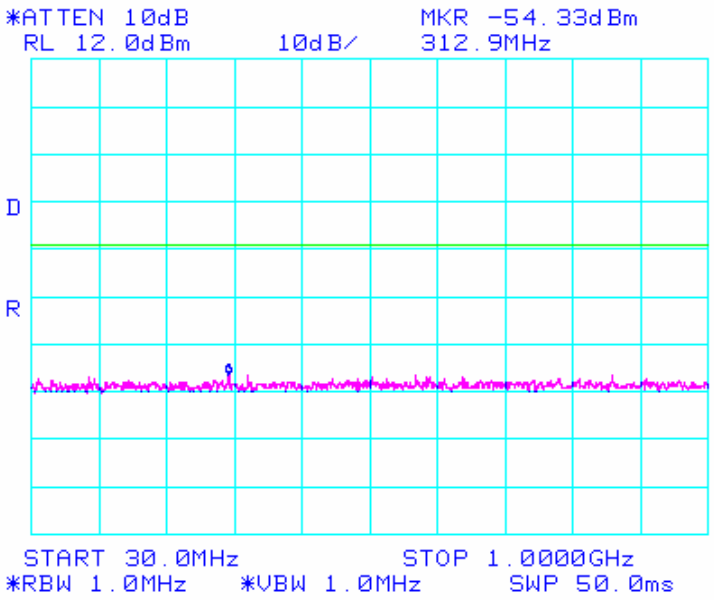
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	A	JC



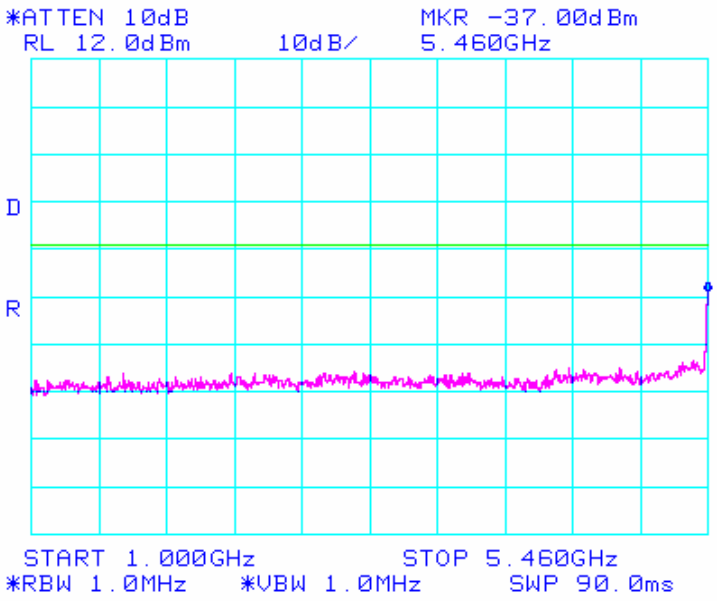
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	A	JC



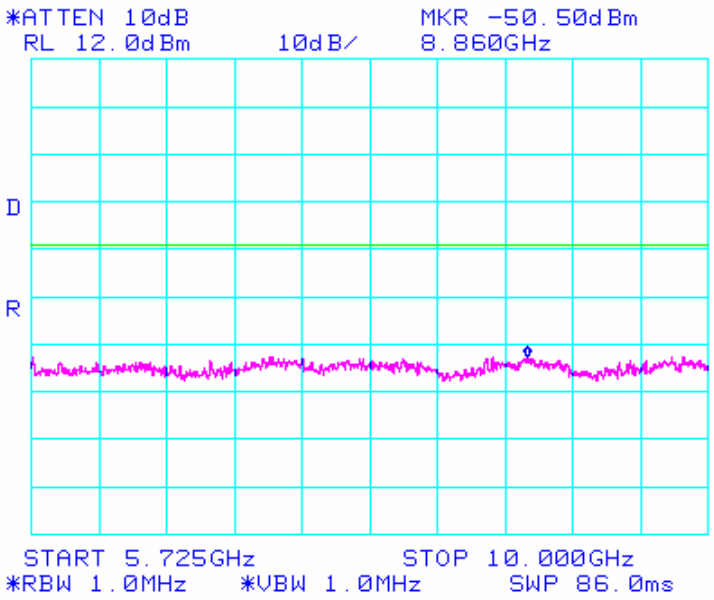
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	A	JC



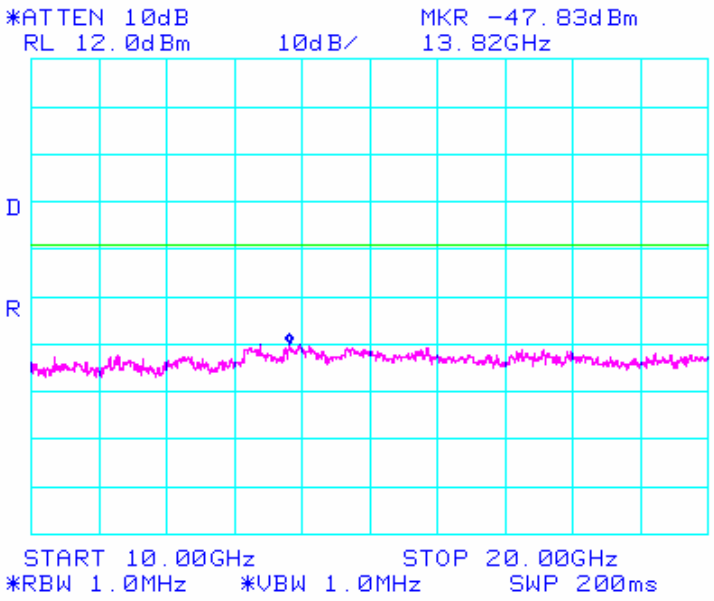
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	A	JC



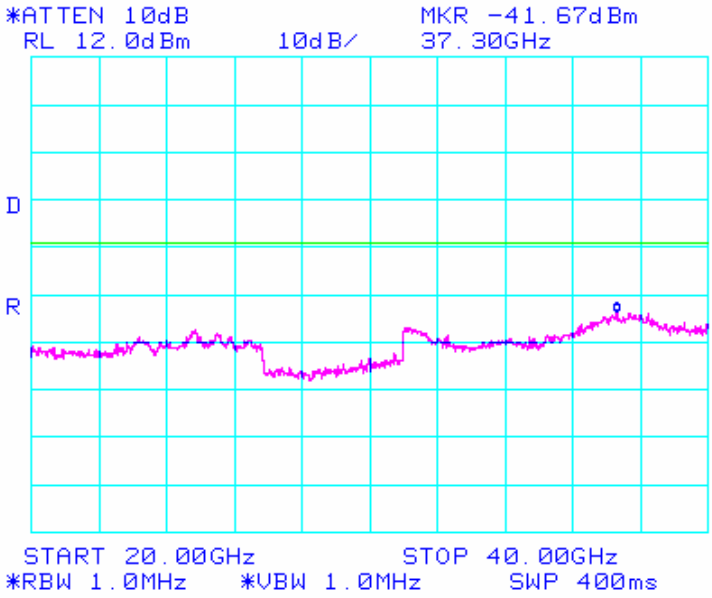
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

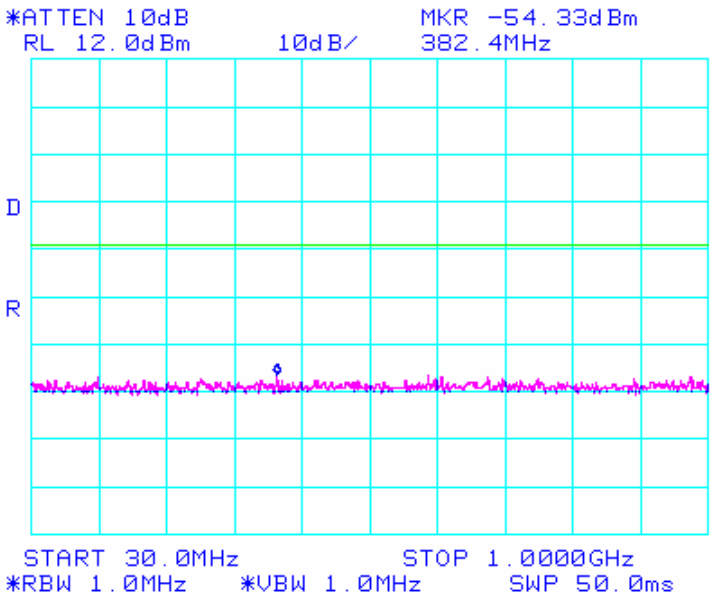
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	A	JC



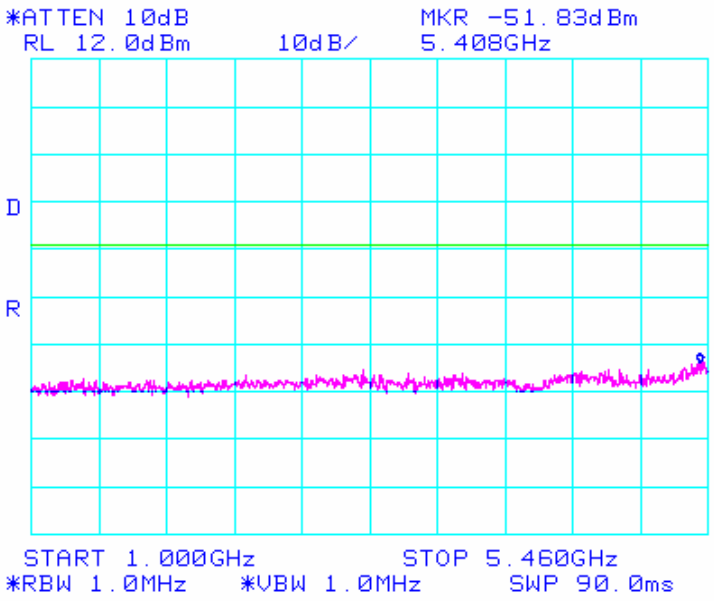
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	A	JC



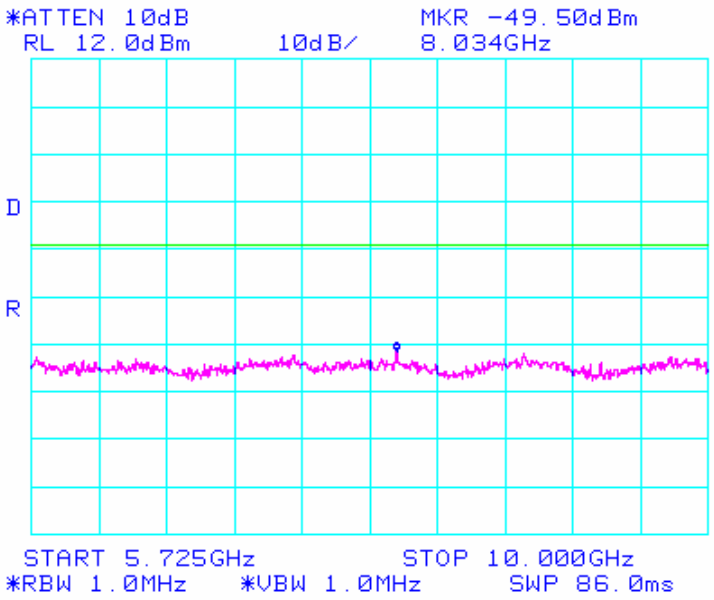
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	A	JC



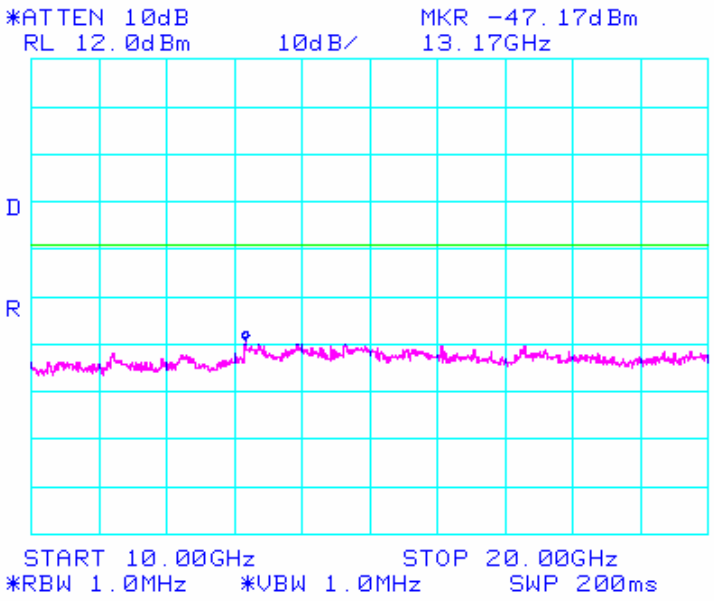
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	A	JC



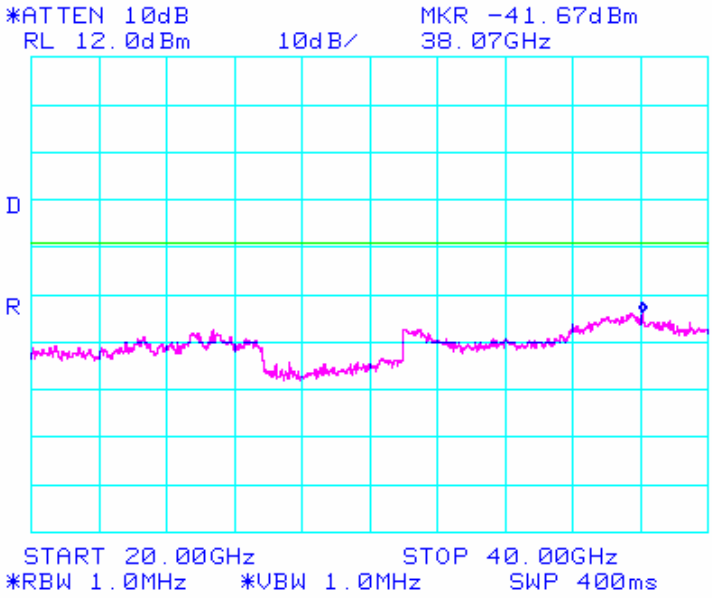
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

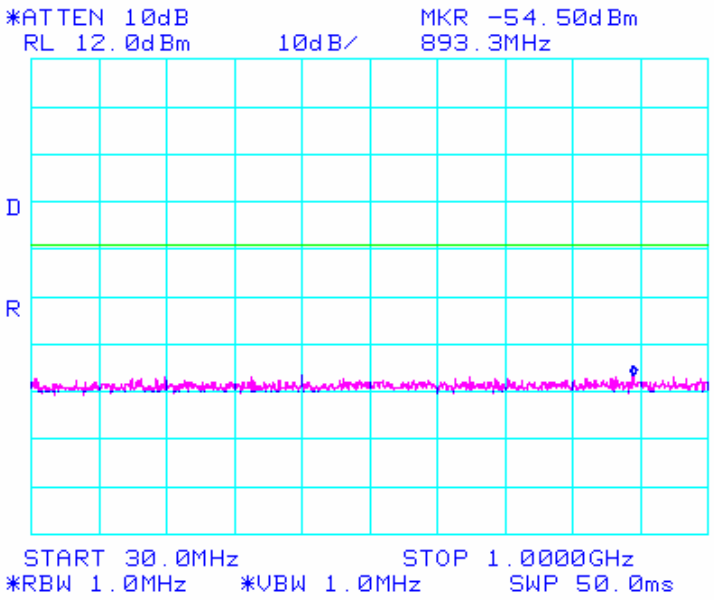
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	A	JC



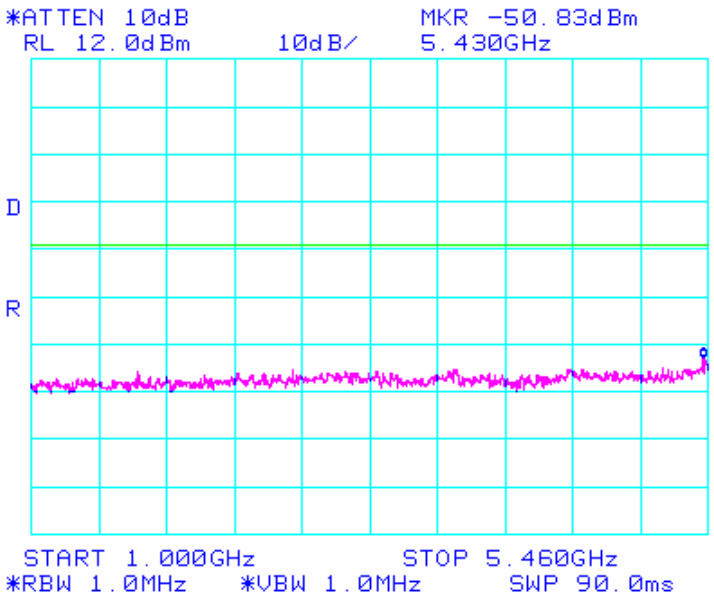
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	A	JC



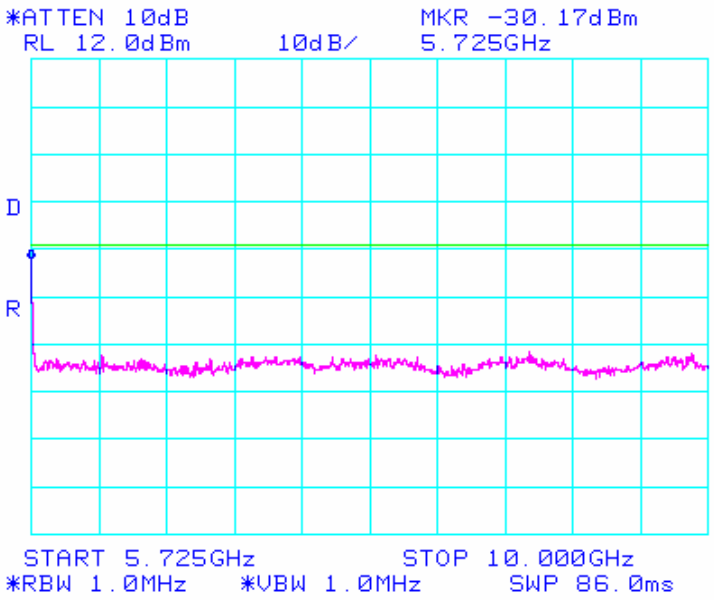
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	A	JC



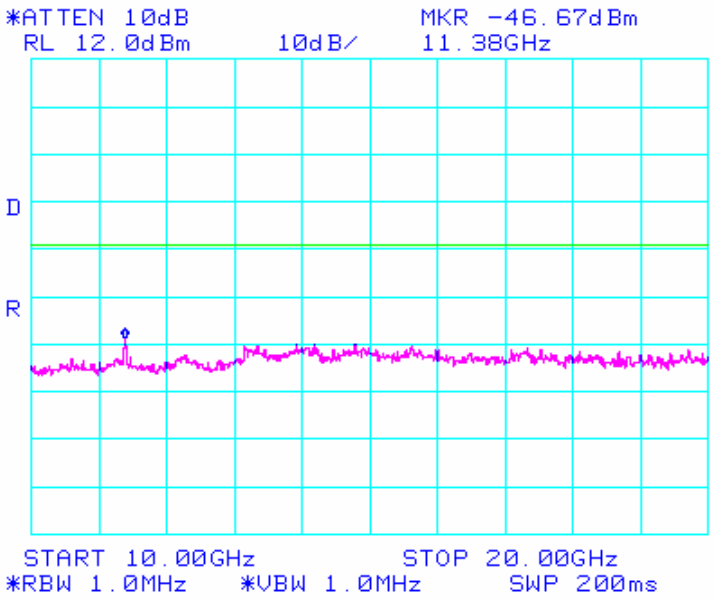
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	A	JC



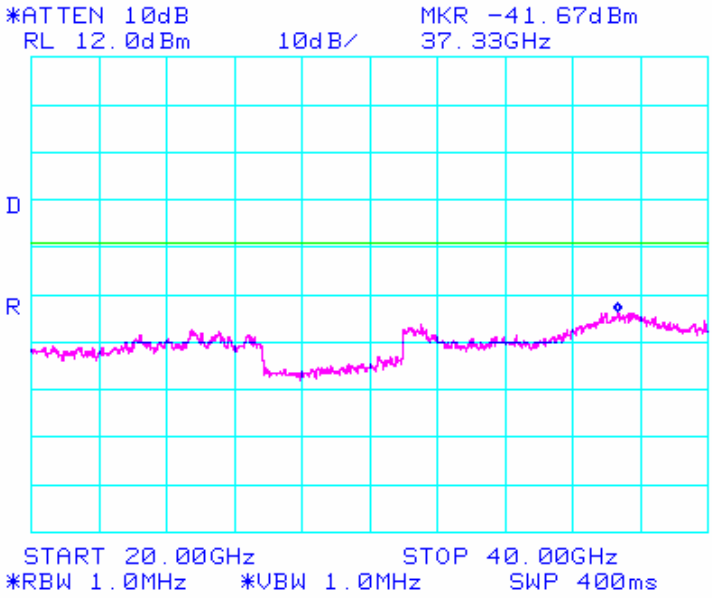
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

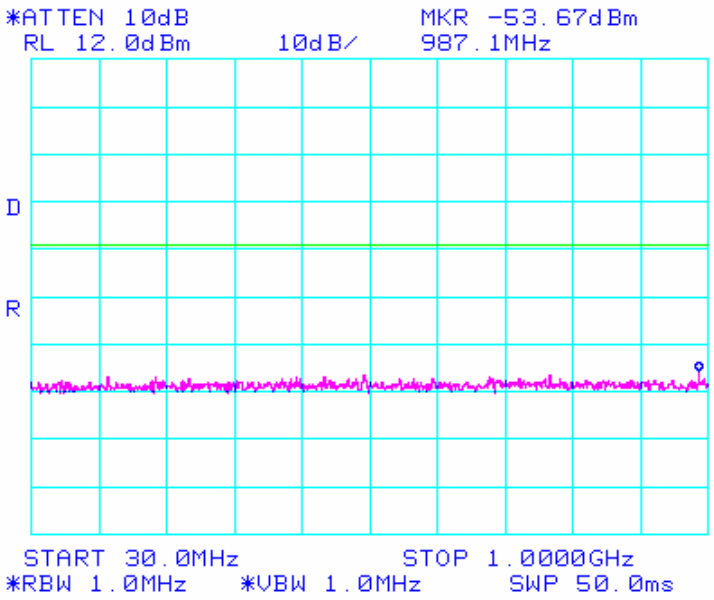
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	A	JC



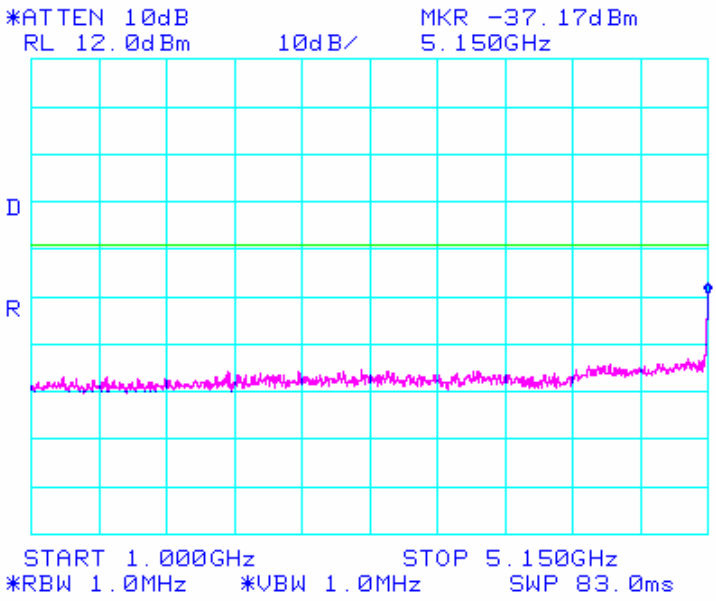
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.19 GHz	A	JC



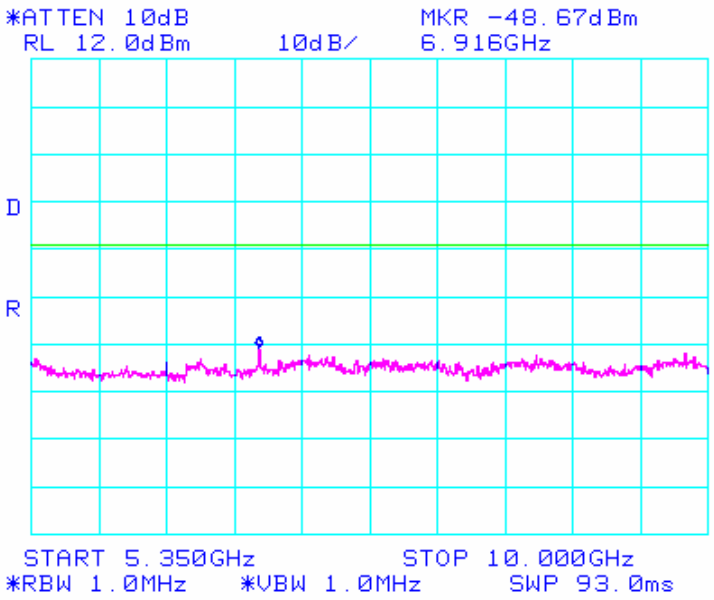
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.19 GHz	A	JC



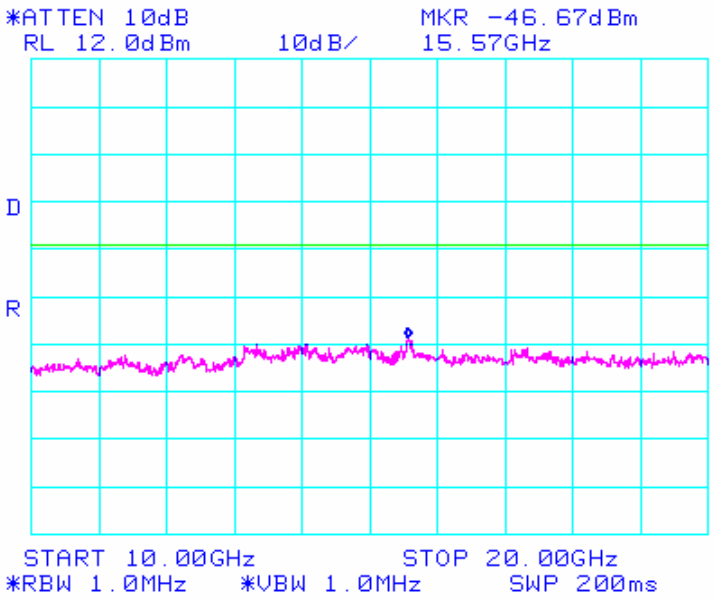
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.19 GHz	A	JC



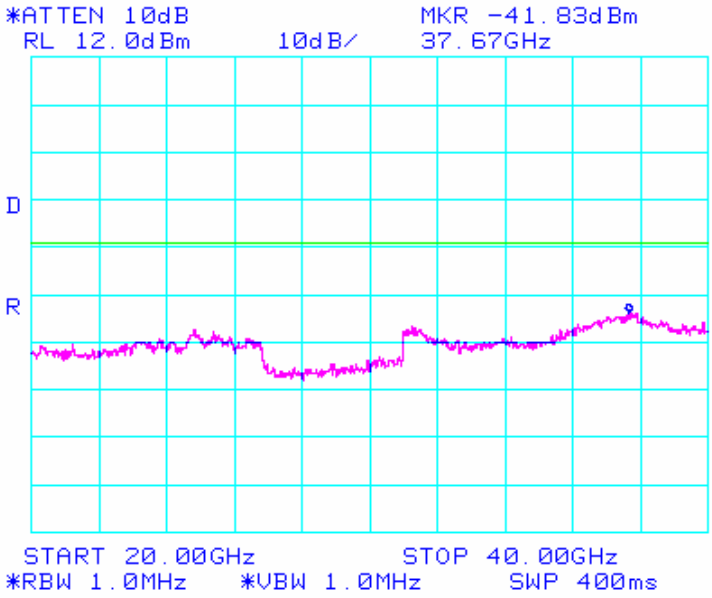
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.19 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

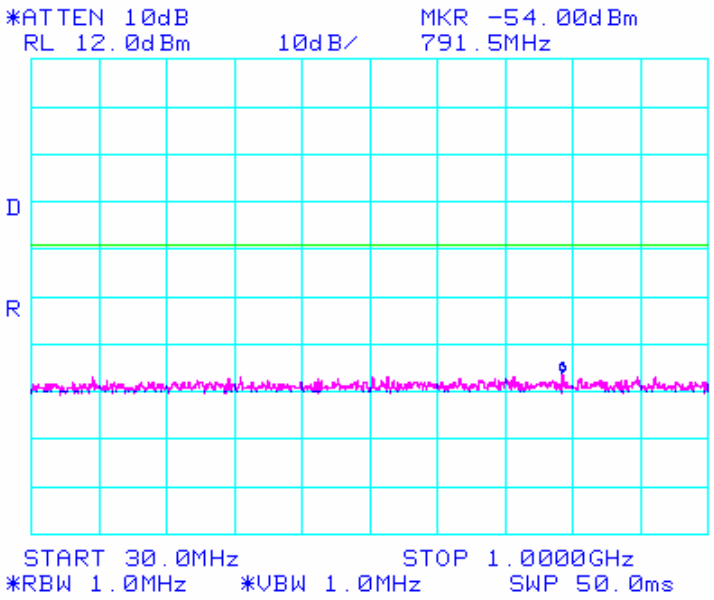
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.19 GHz	A	JC



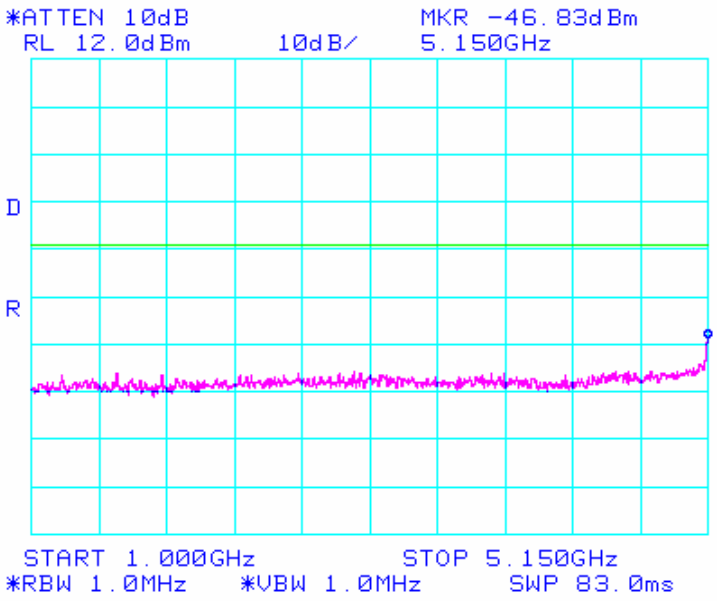
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.23 GHz	A	JC



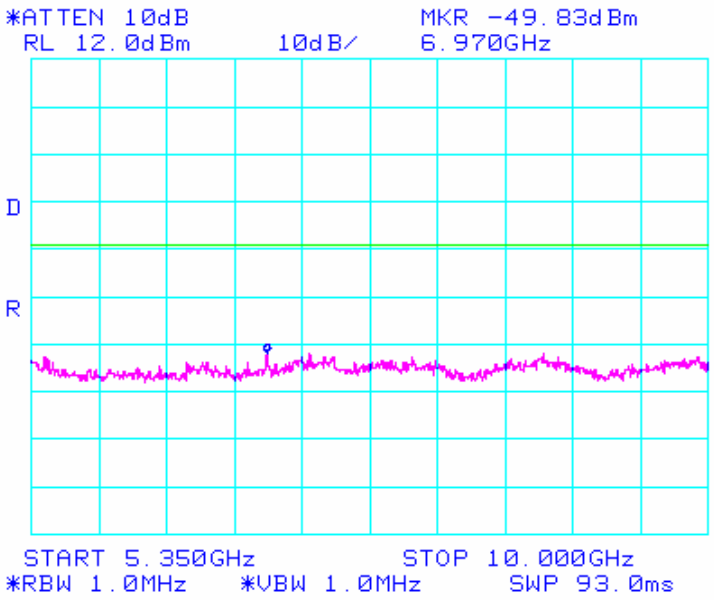
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.23 GHz	A	JC



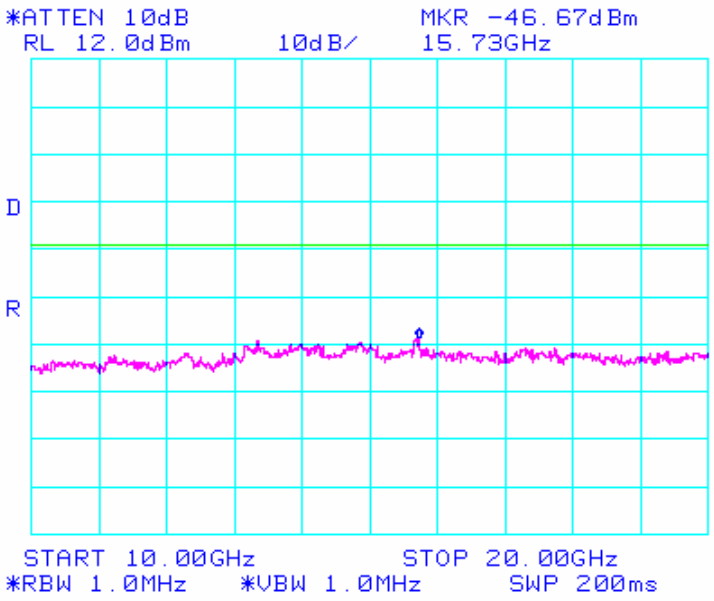
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.23 GHz	A	JC



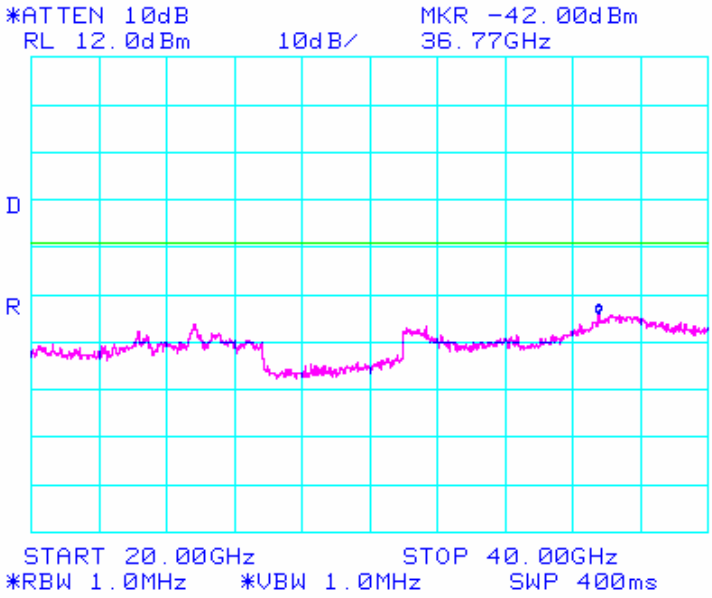
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.23 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

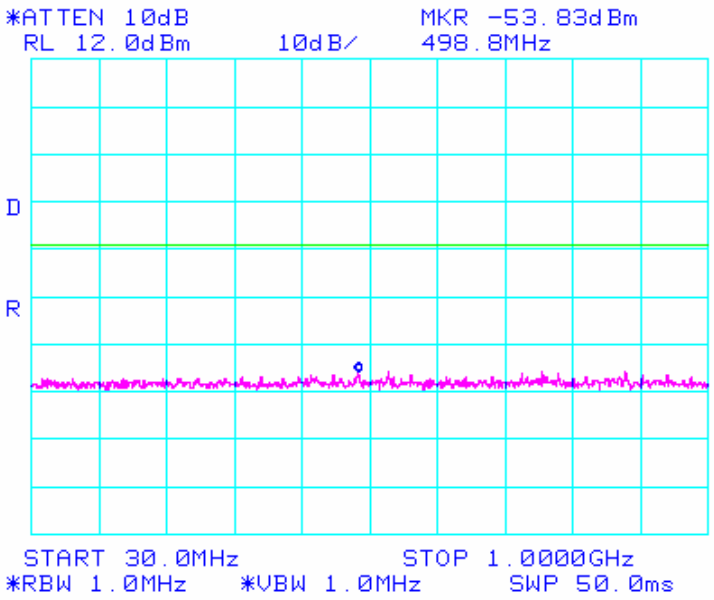
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.23 GHz	A	JC



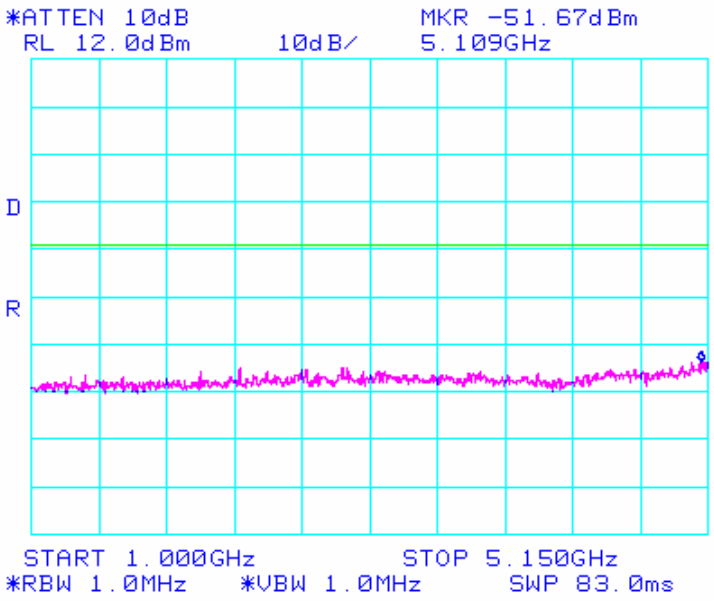
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.27 GHz	A	JC



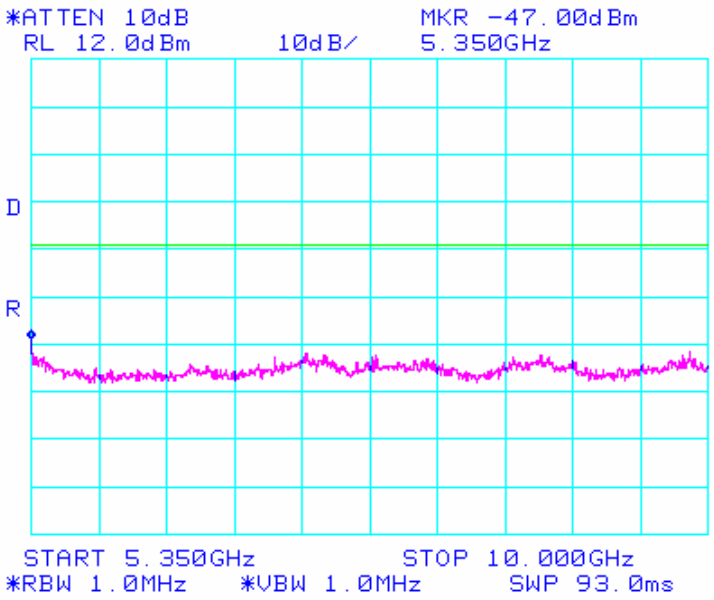
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.27 GHz	A	JC



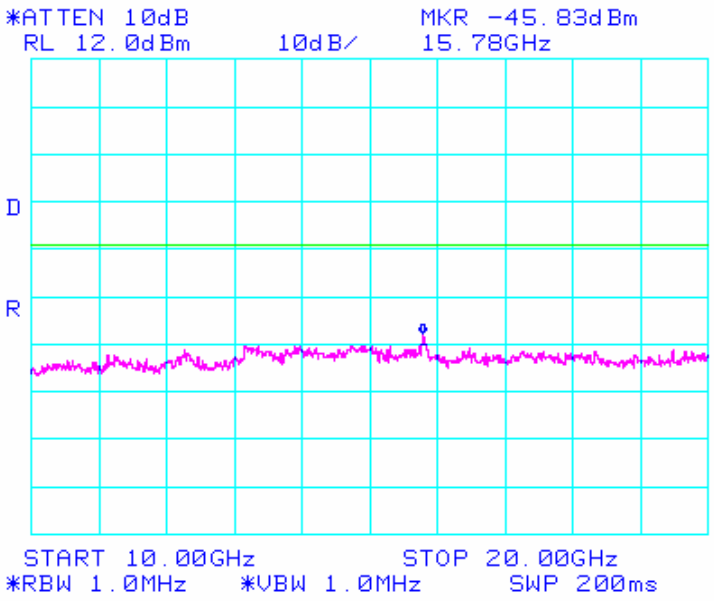
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.27 GHz	A	JC



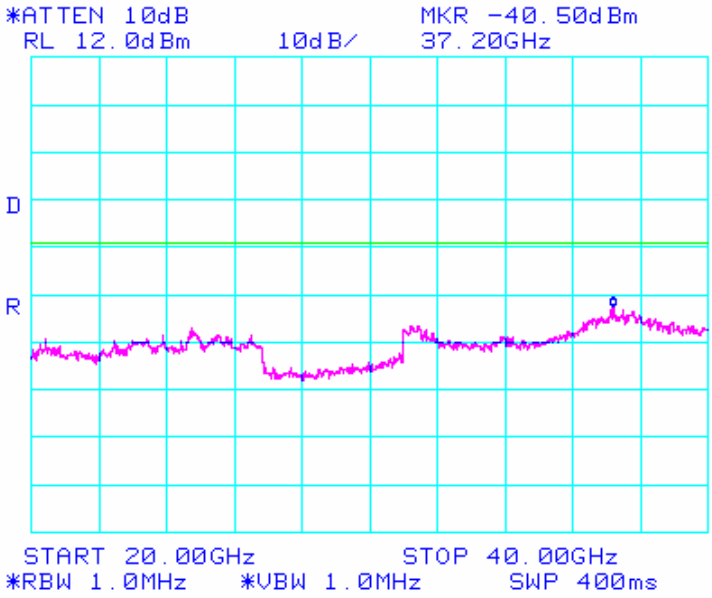
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.27 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

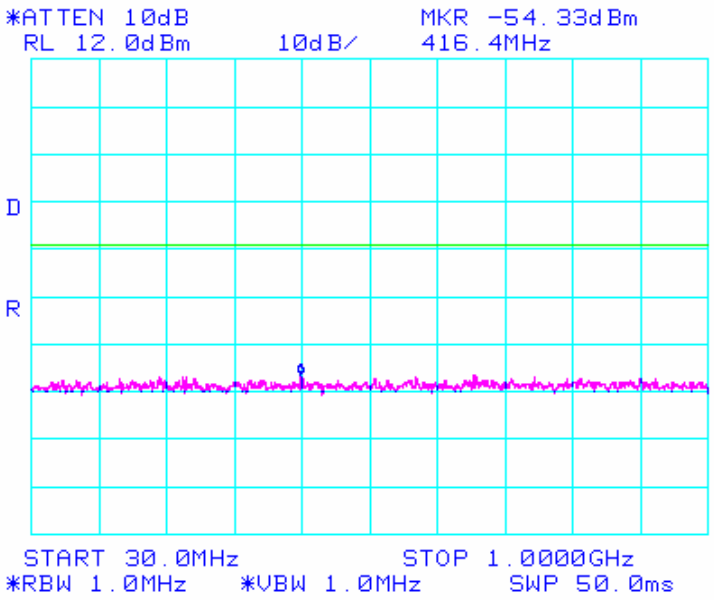
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.27 GHz	A	JC



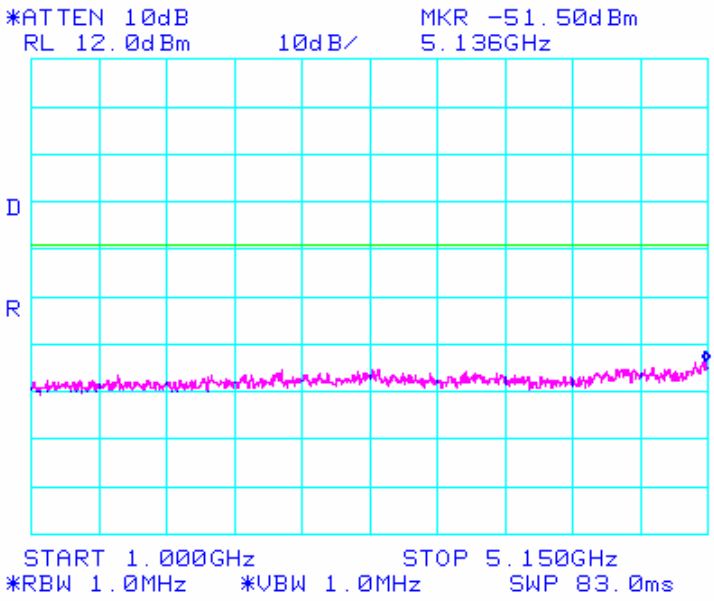
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.31 GHz	A	JC



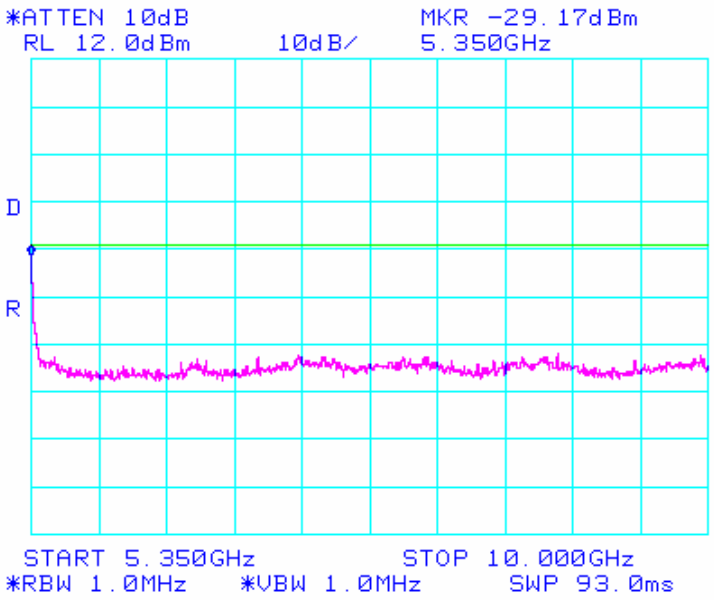
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.31 GHz	A	JC



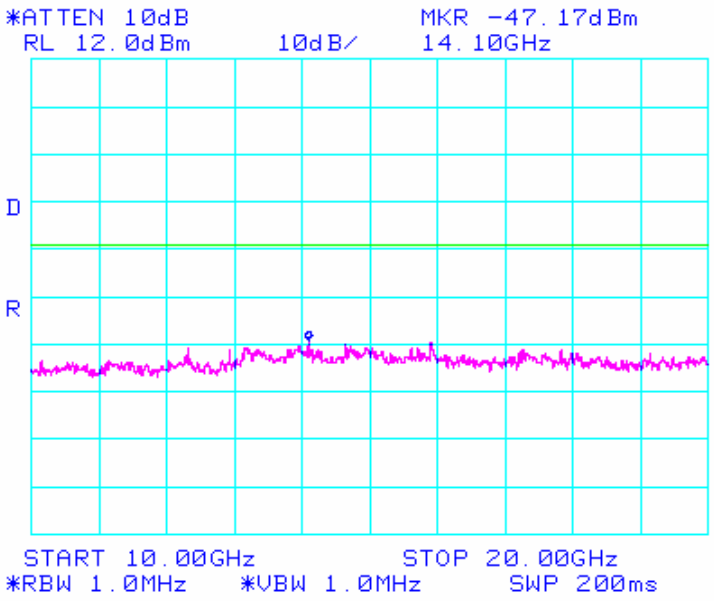
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.31 GHz	A	JC



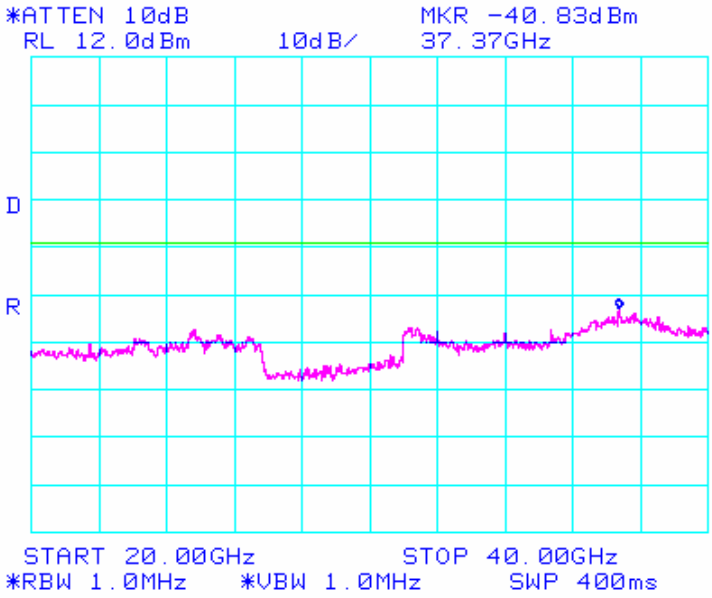
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.31 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

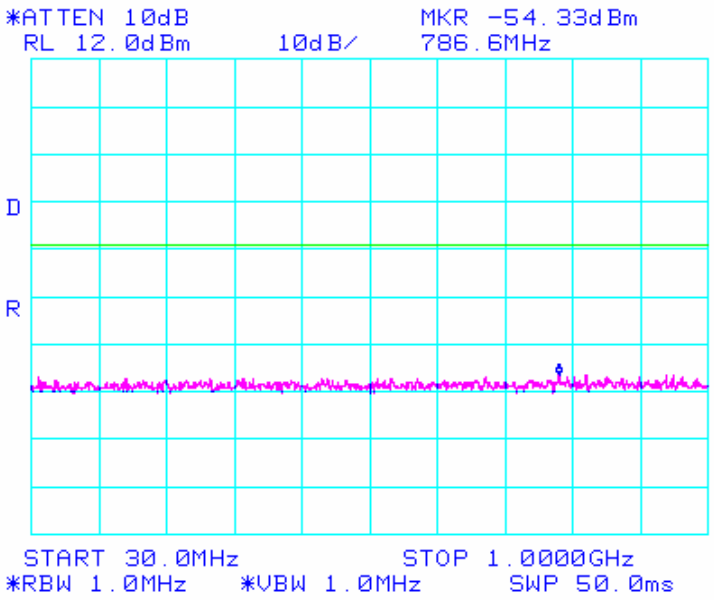
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.31 GHz	A	JC



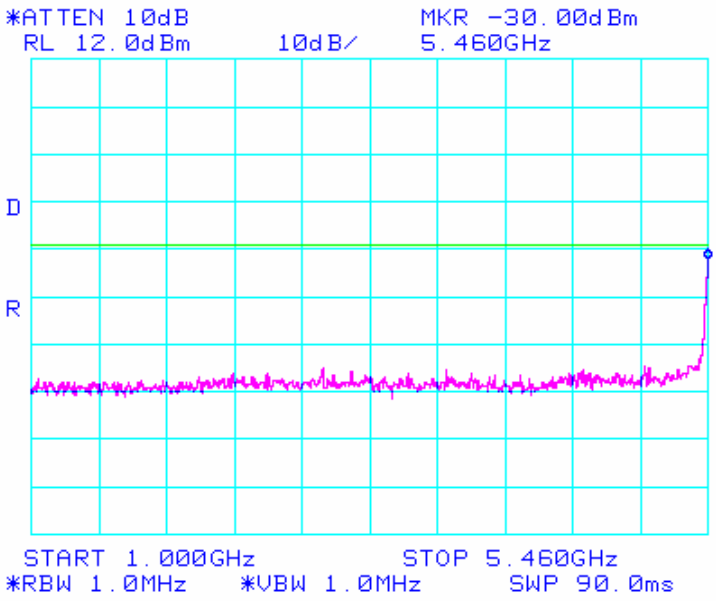
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.51 GHz	A	JC



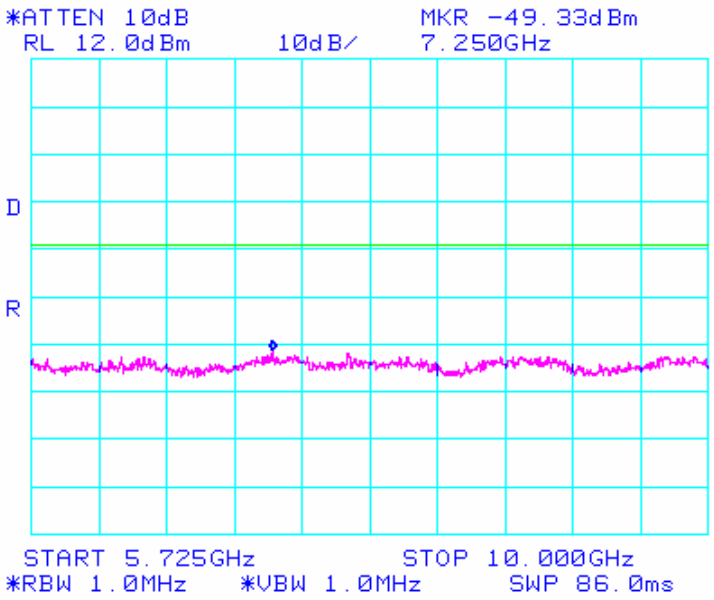
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.51 GHz	A	JC



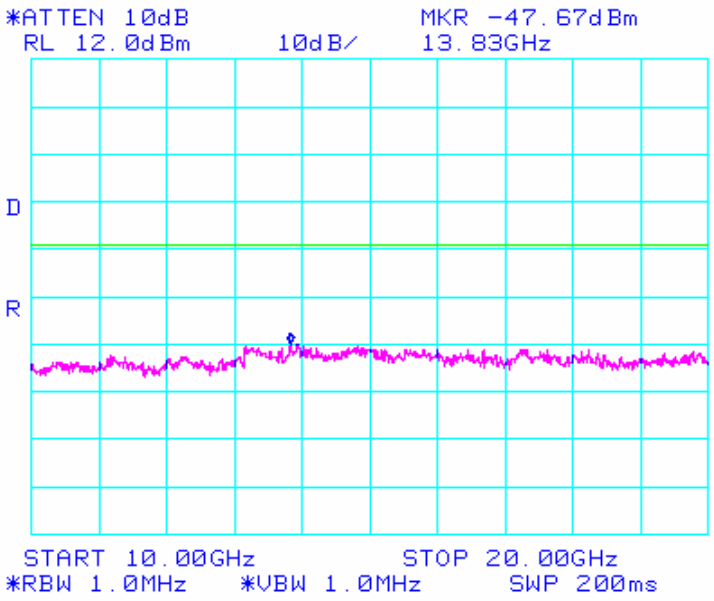
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.51 GHz	A	JC



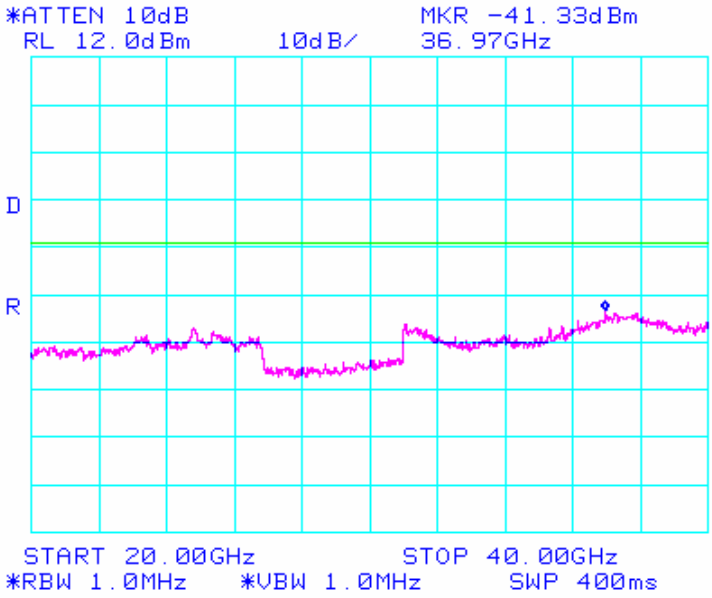
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.51 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

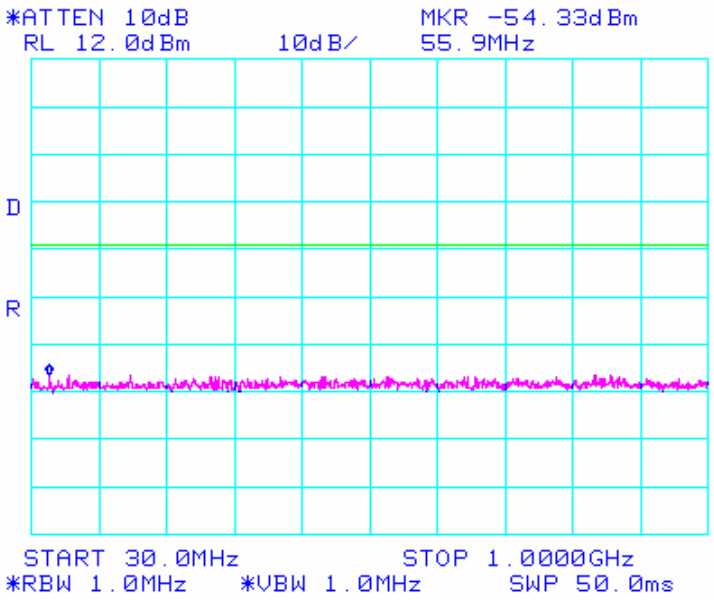
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.51 GHz	A	JC



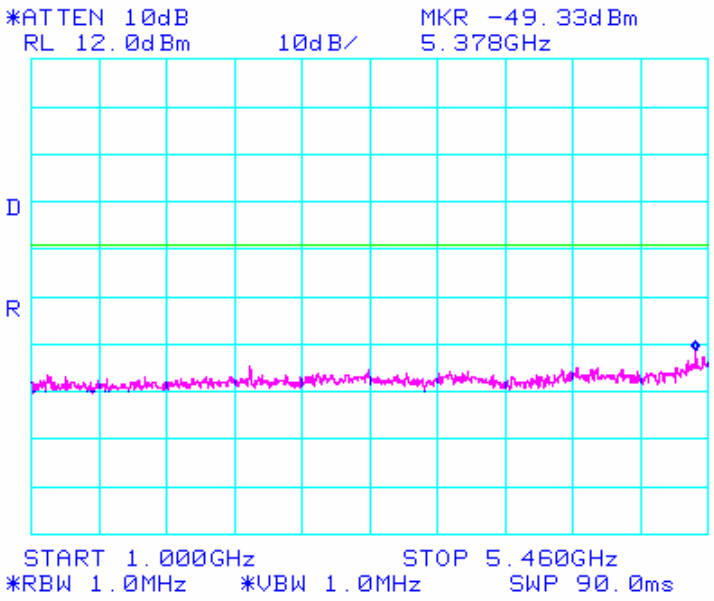
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.59 GHz	A	JC



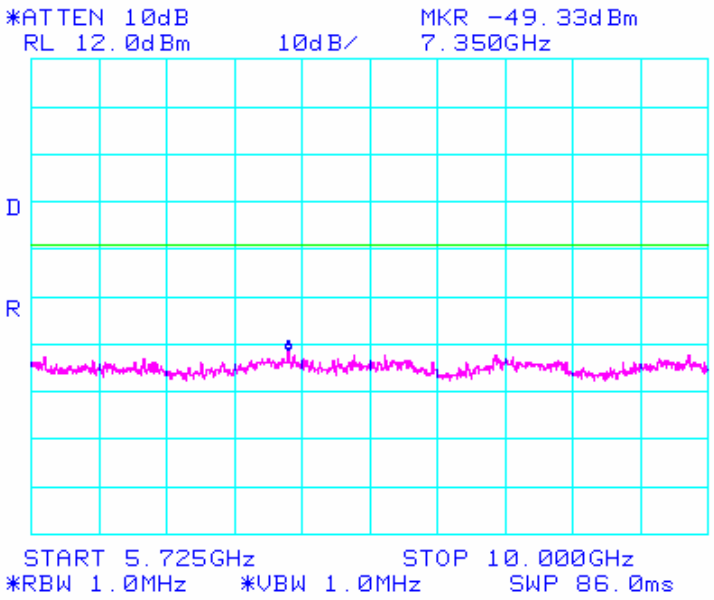
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.59 GHz	A	JC



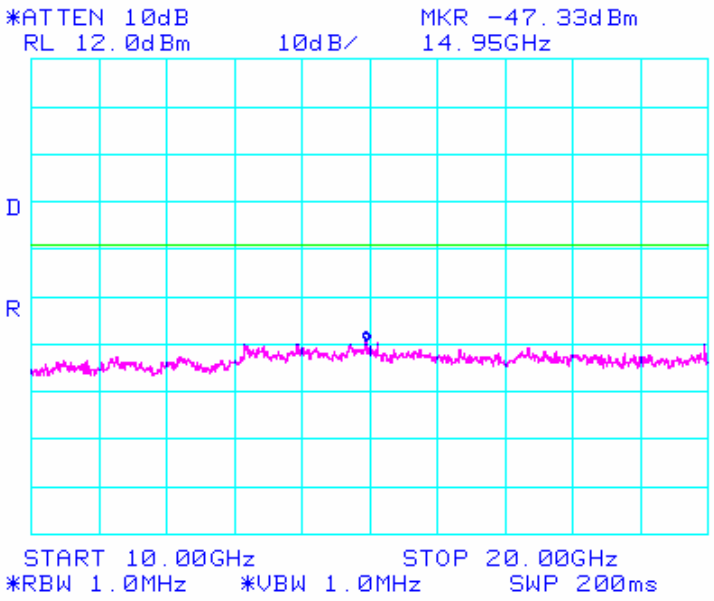
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.59 GHz	A	JC



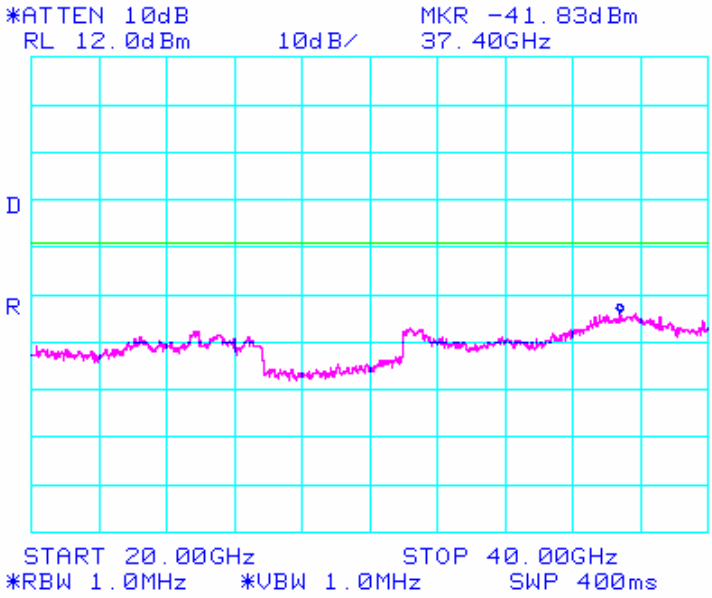
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.59 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

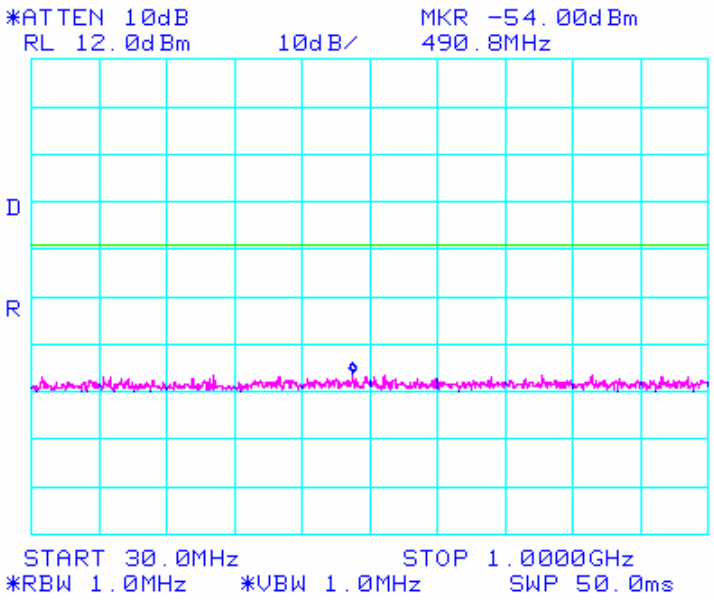
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.59 GHz	A	JC



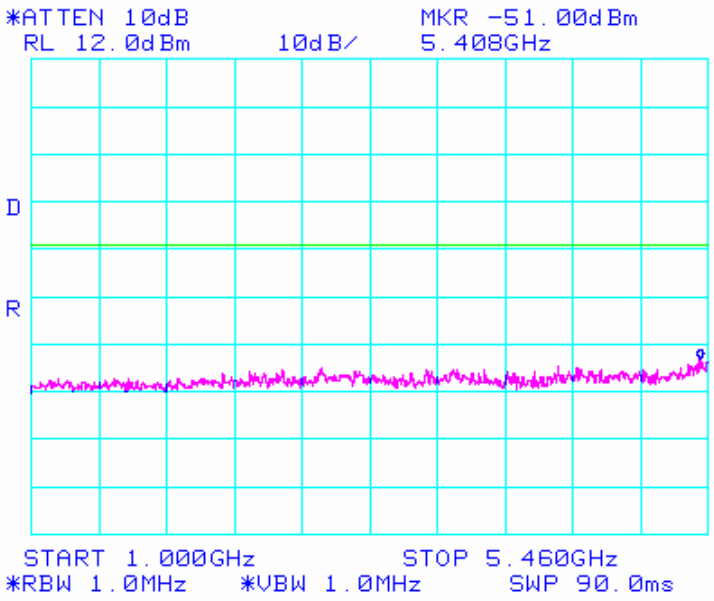
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.67 GHz	A	JC



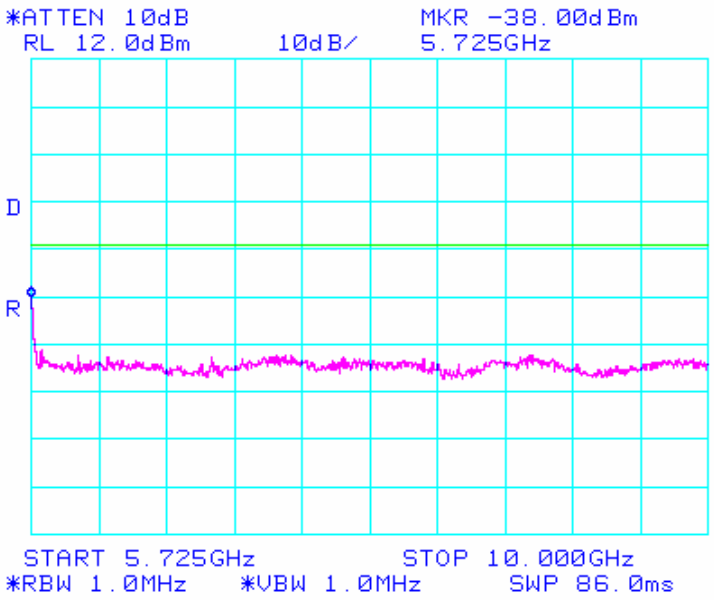
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.67 GHz	A	JC



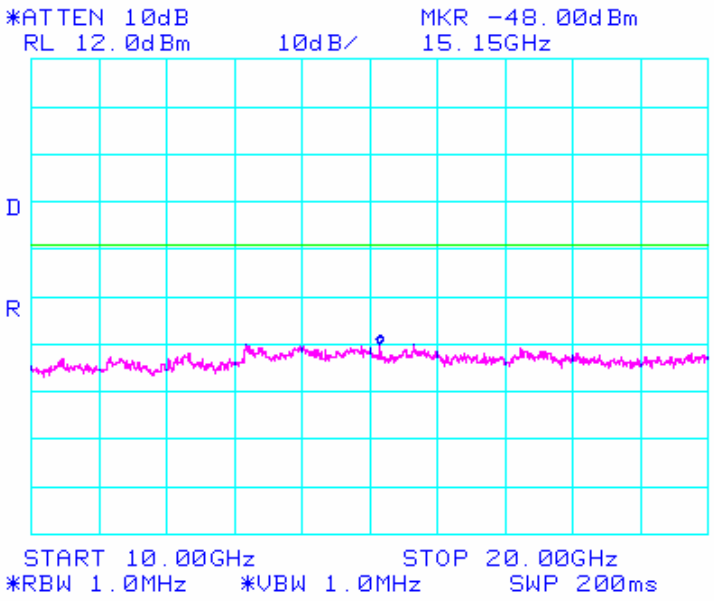
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.67 GHz	A	JC



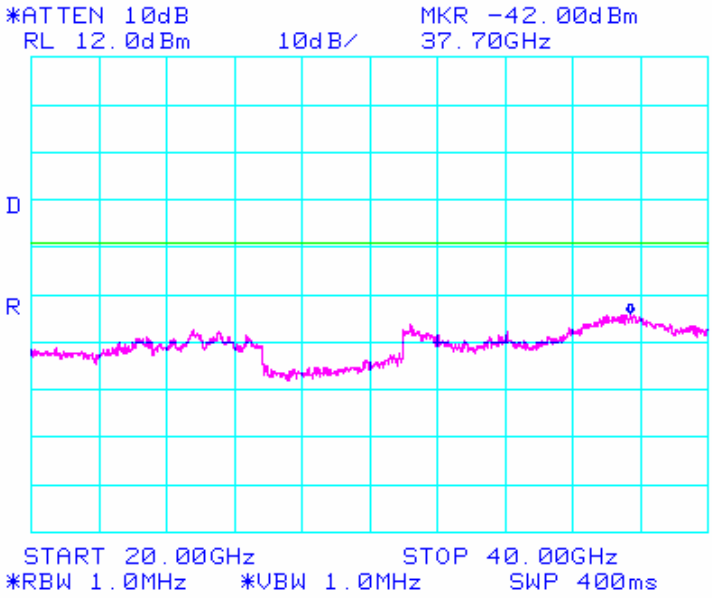
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.67 GHz	A	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

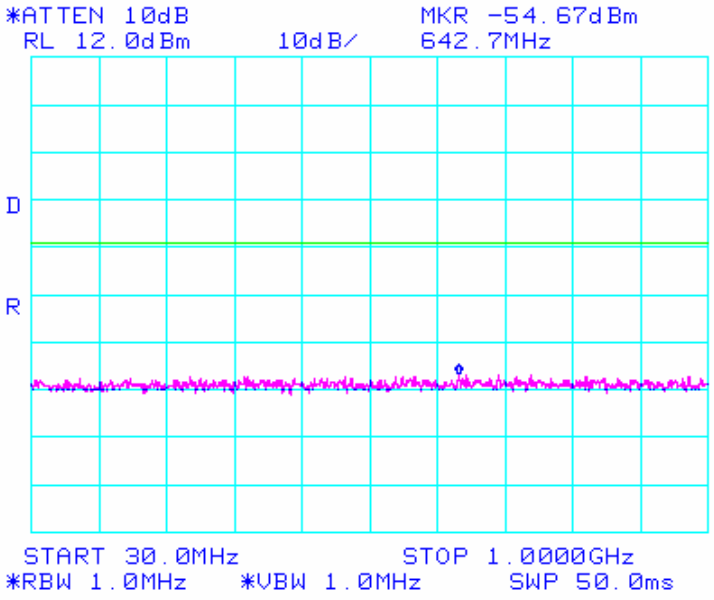
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.67 GHz	A	JC



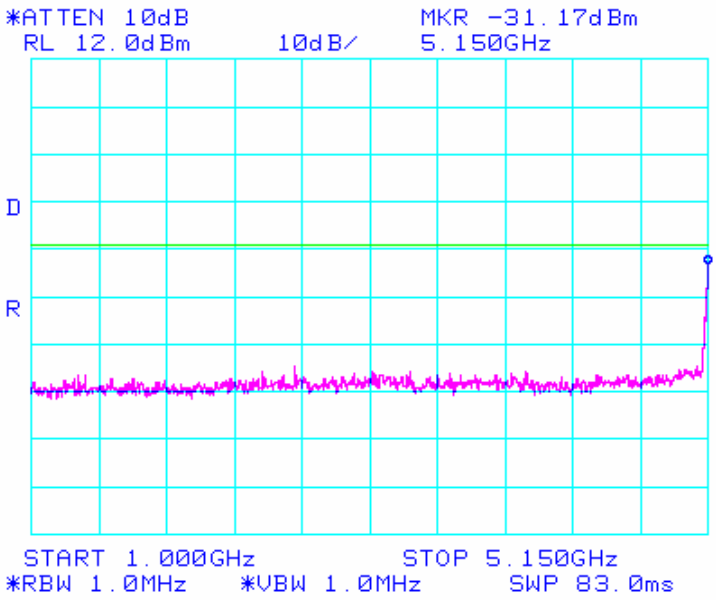
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	B	JC



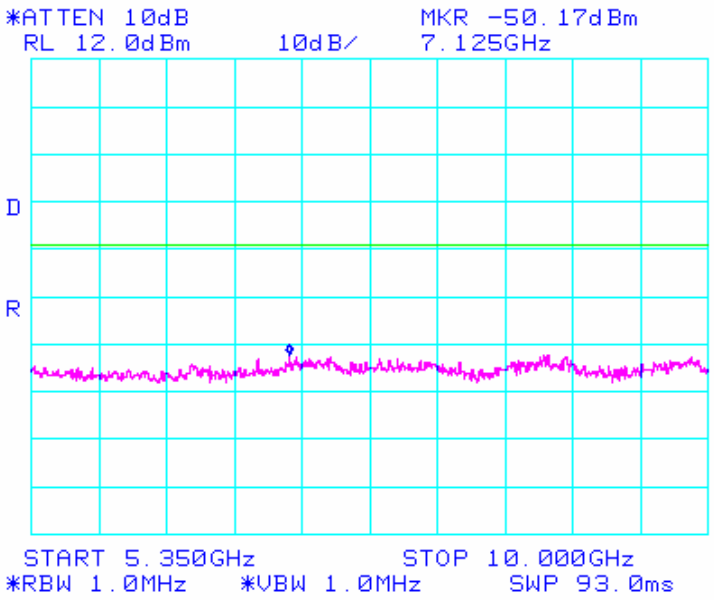
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	B	JC



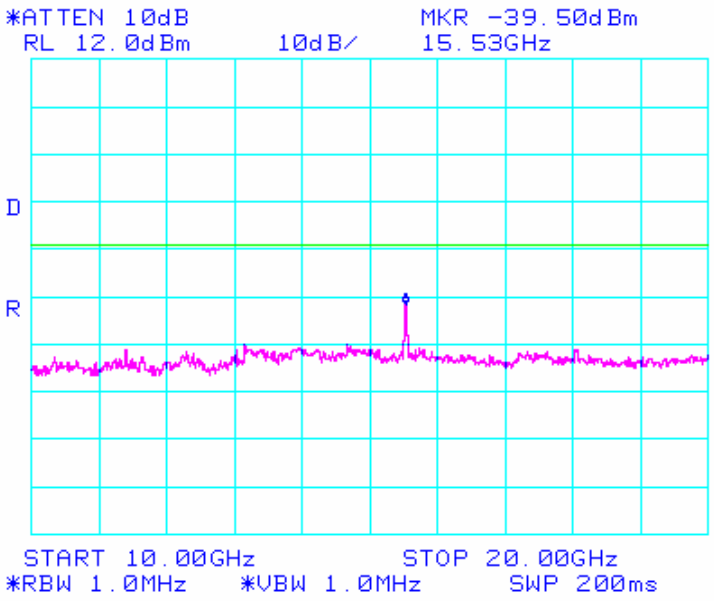
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	B	JC



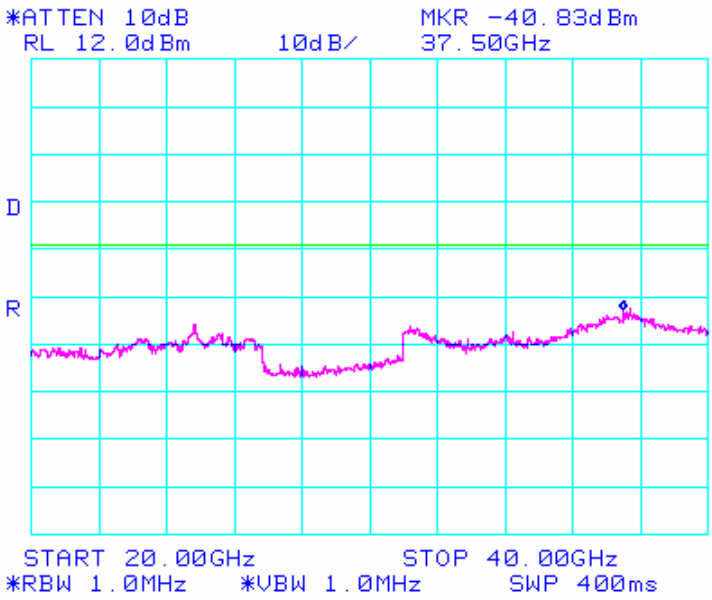
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

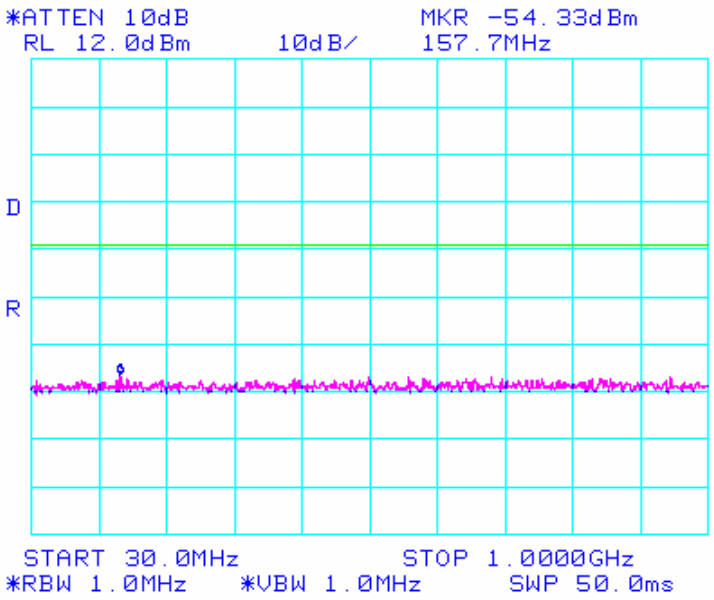
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	B	JC



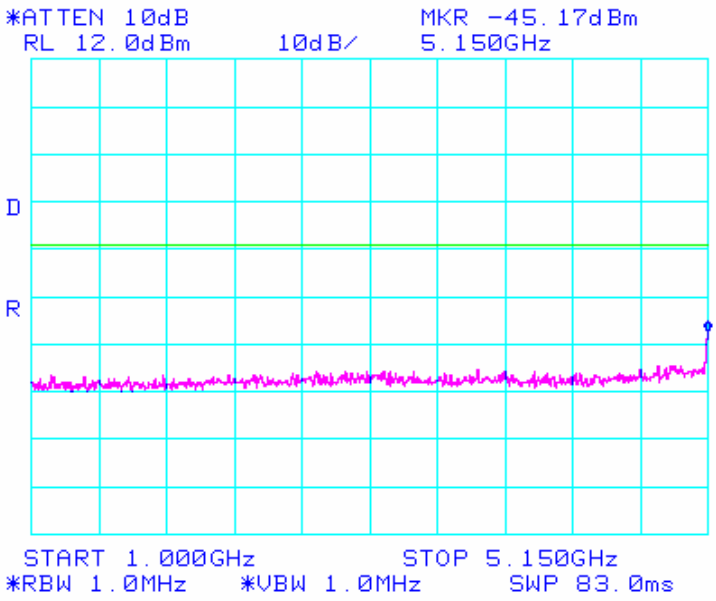
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	B	JC



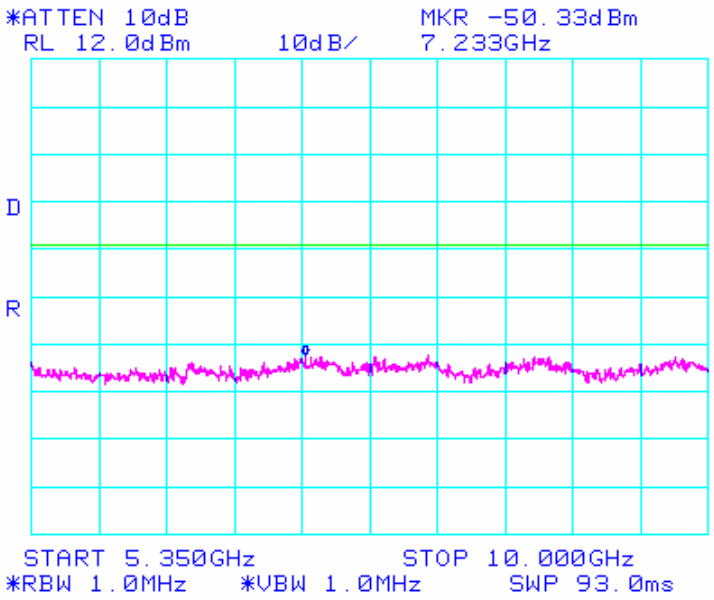
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	B	JC



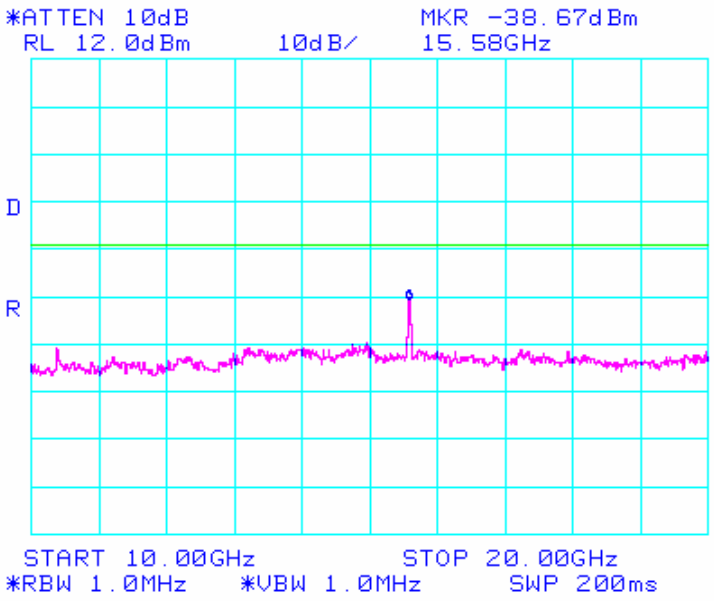
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	B	JC



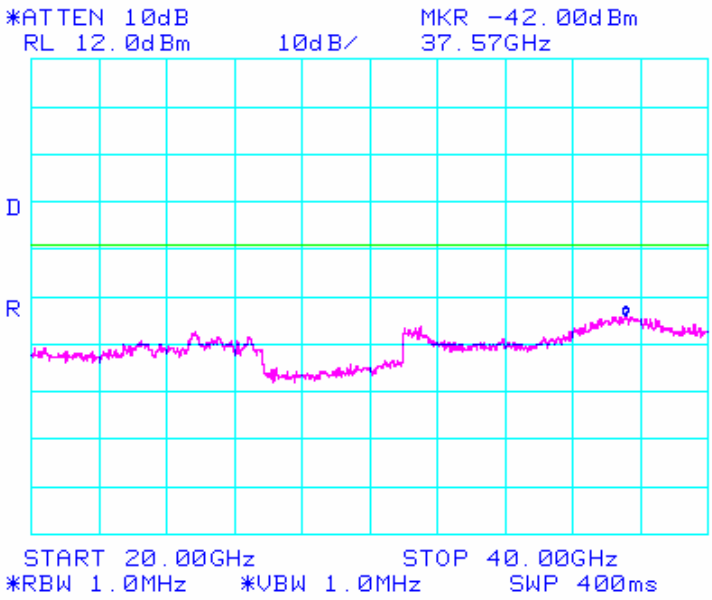
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

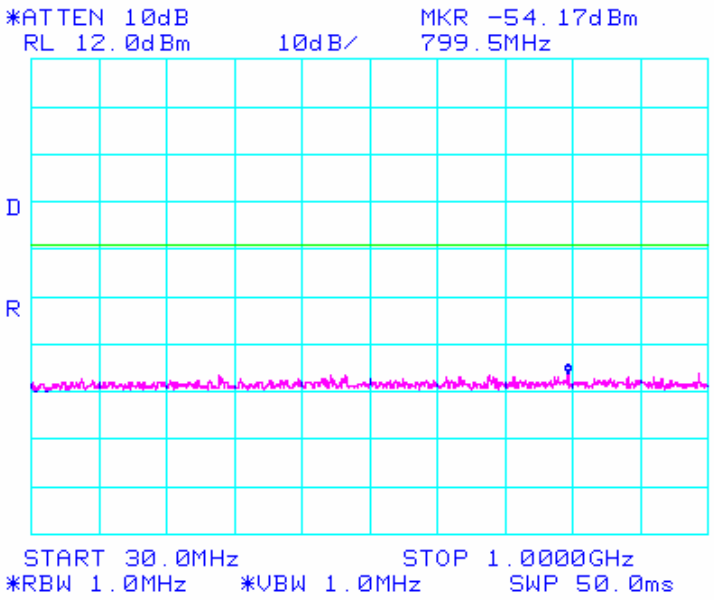
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	B	JC



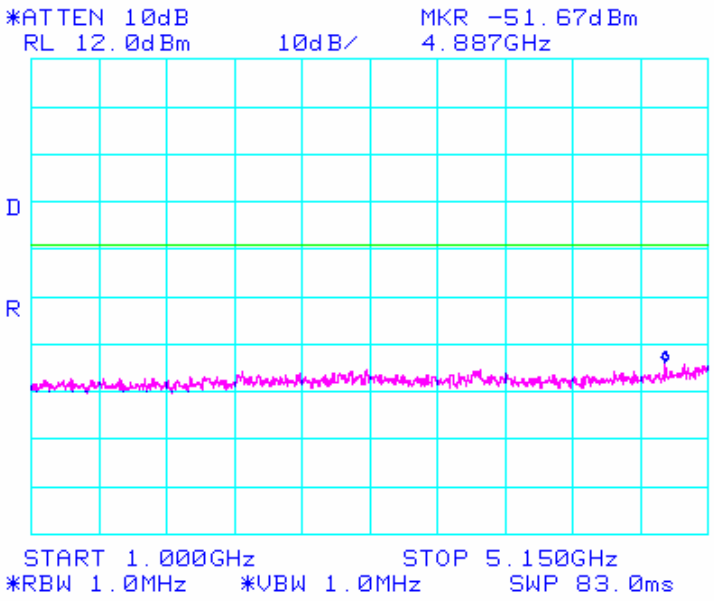
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	B	JC



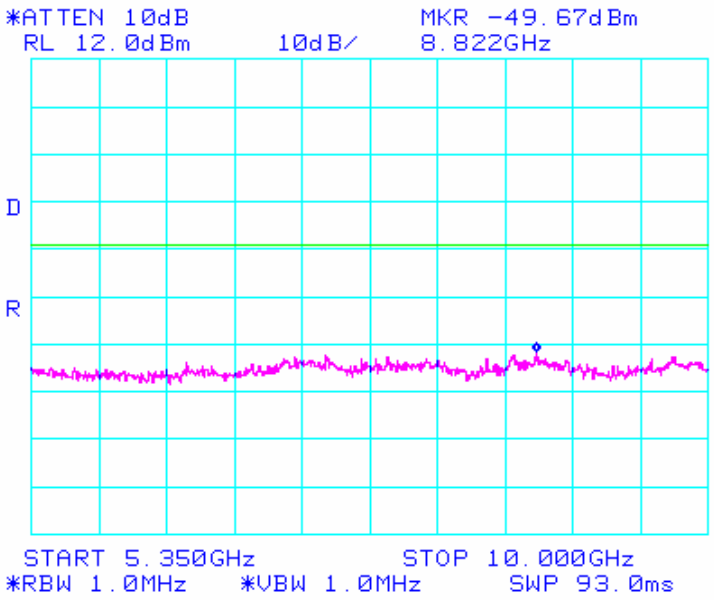
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	B	JC



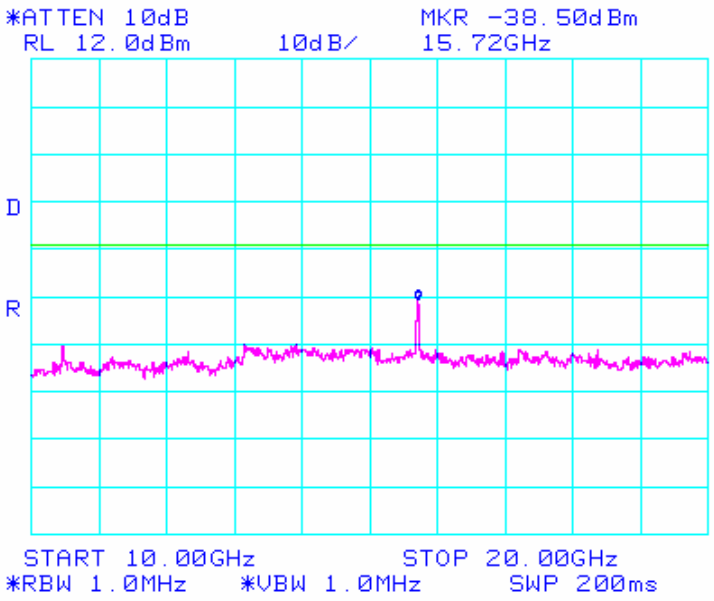
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	B	JC



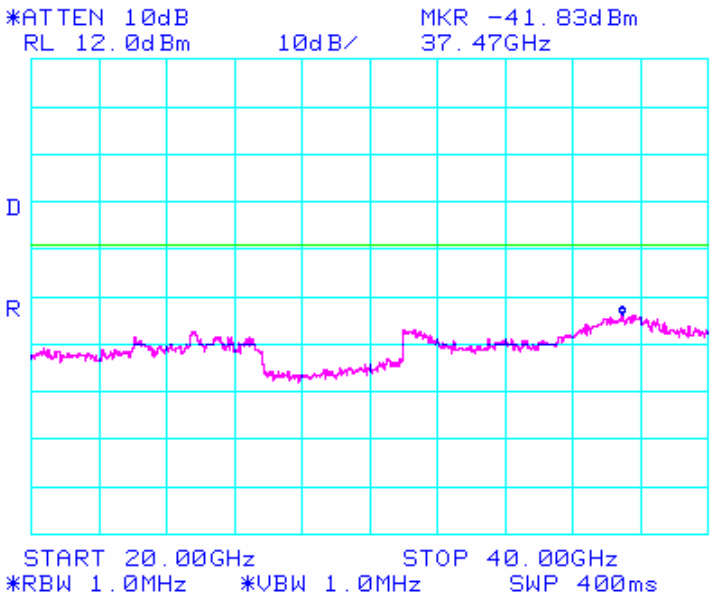
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

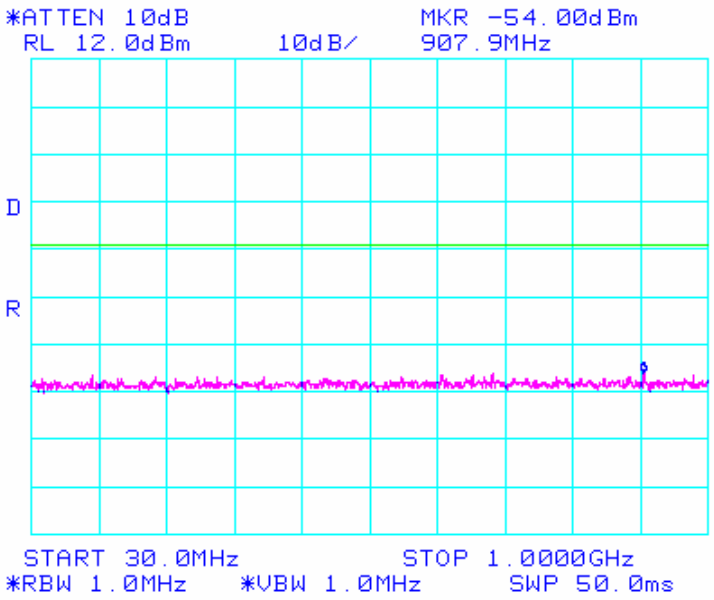
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	B	JC



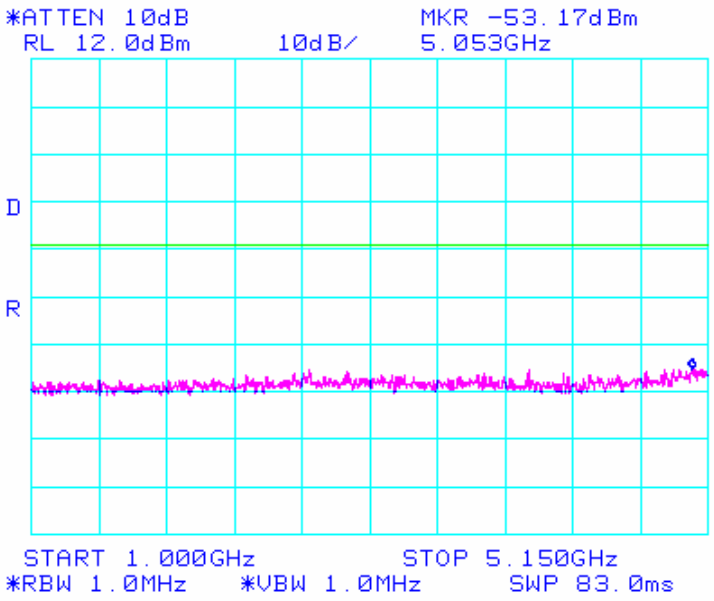
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	B	JC



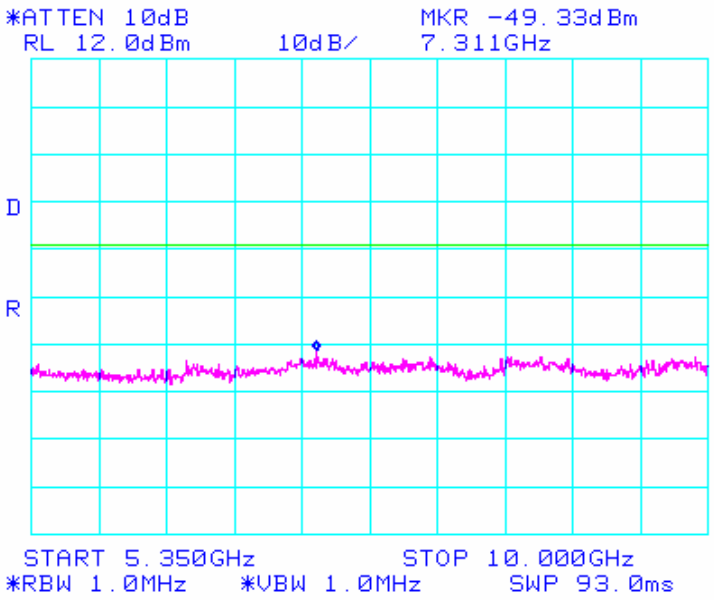
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	B	JC



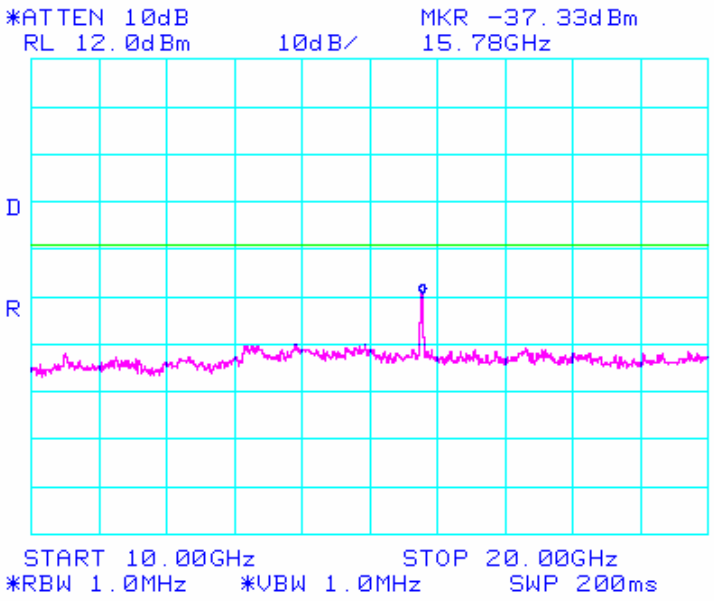
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	B	JC



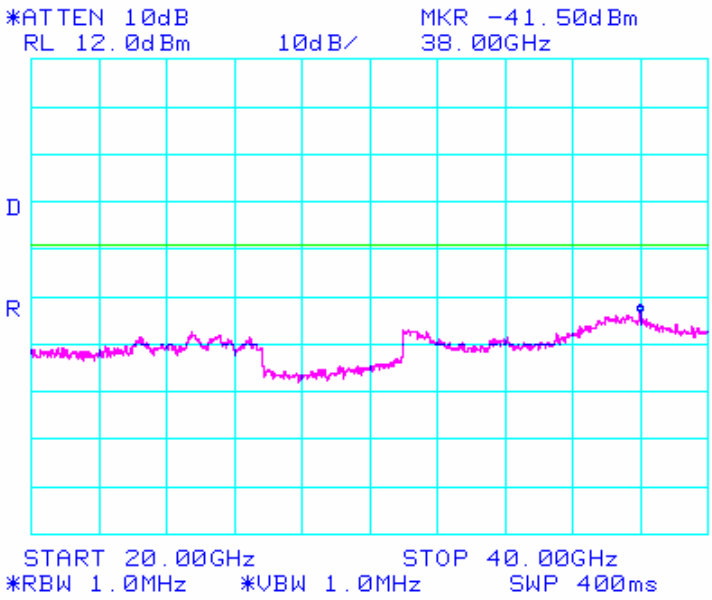
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

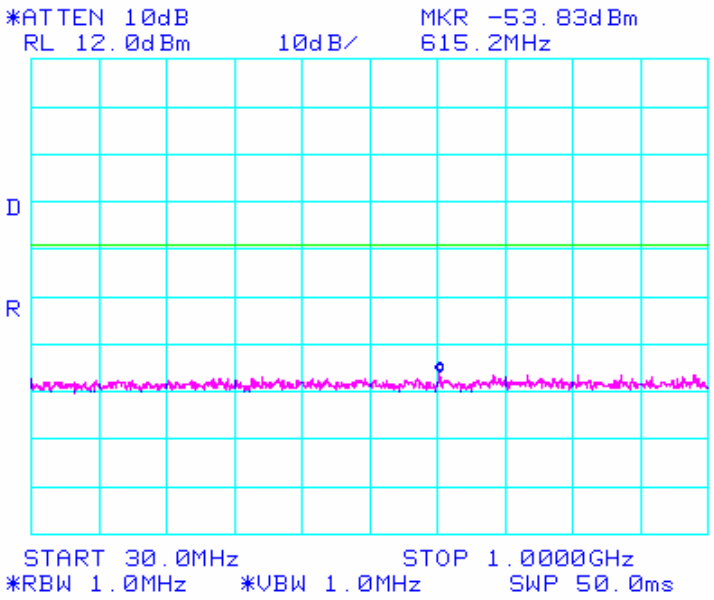
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	B	JC



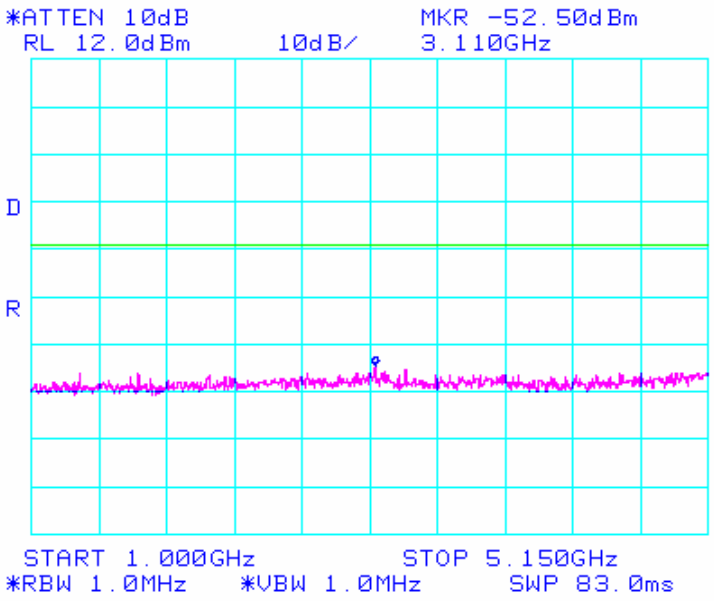
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	B	JC



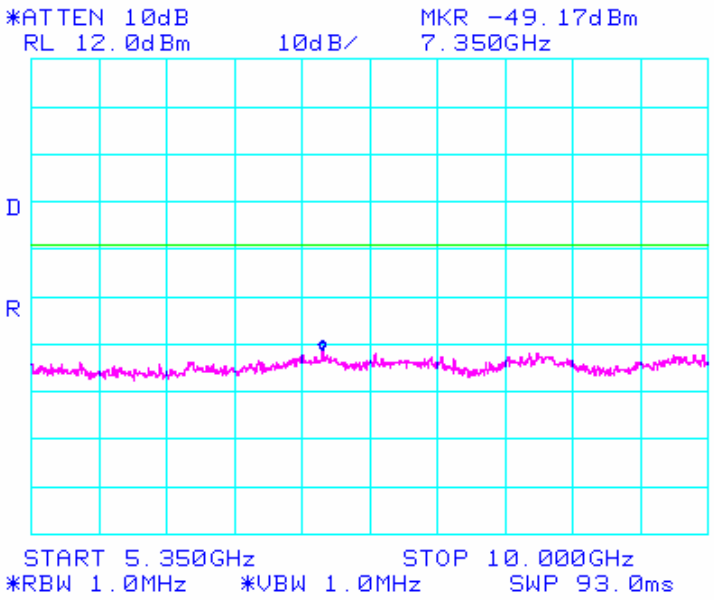
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	B	JC



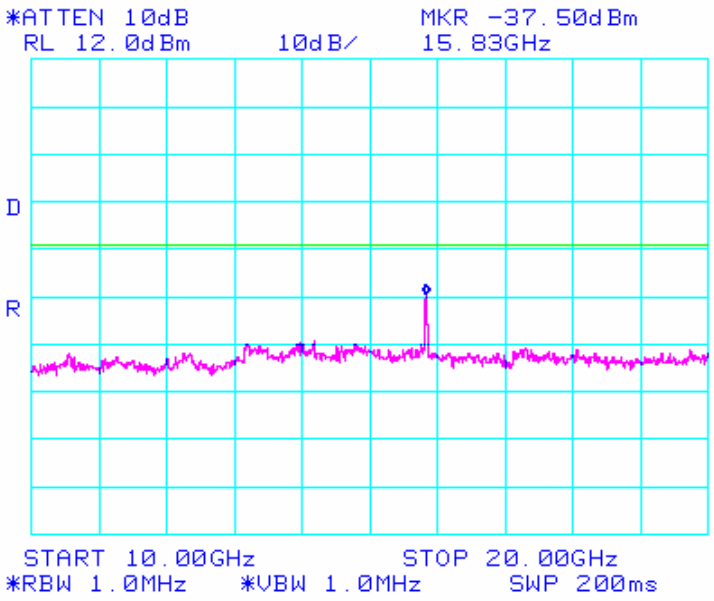
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	B	JC



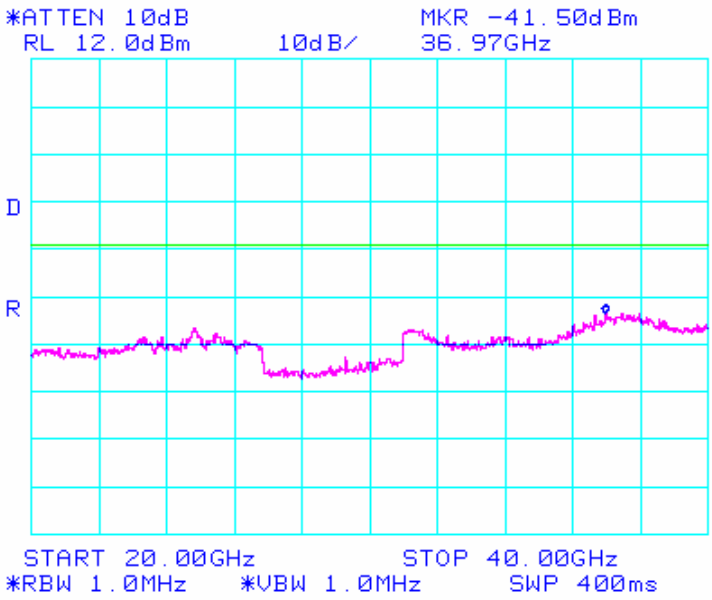
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

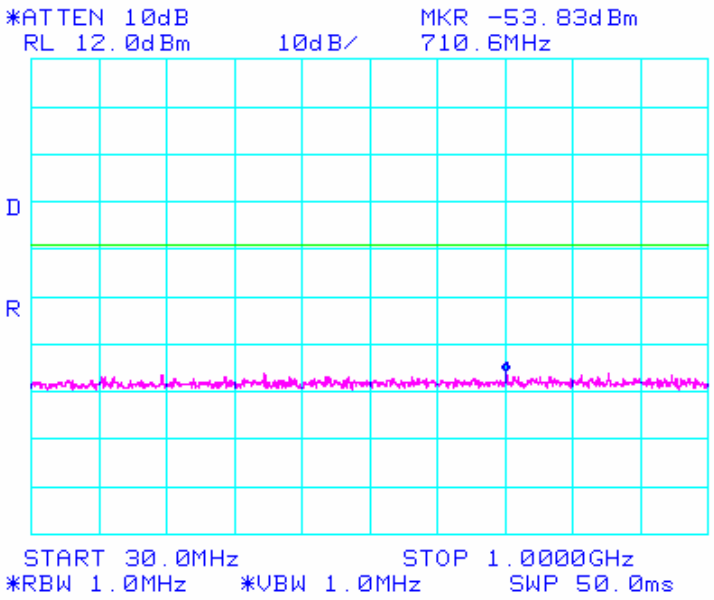
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	B	JC



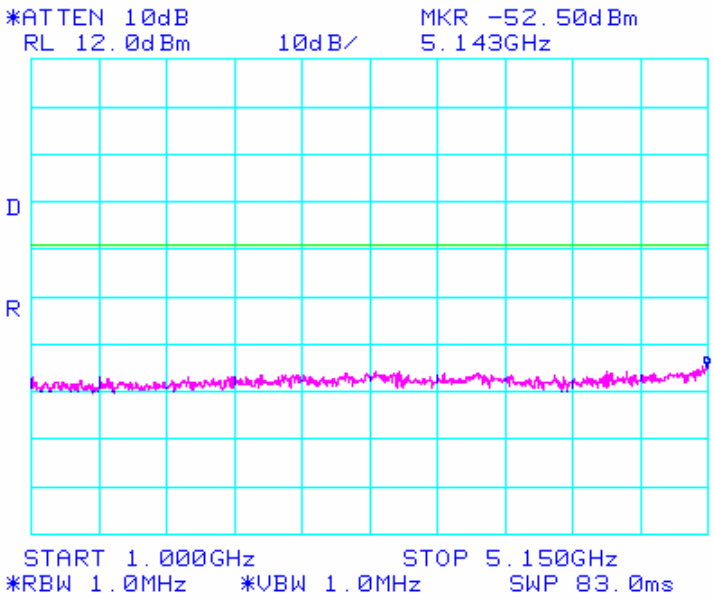
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	B	JC



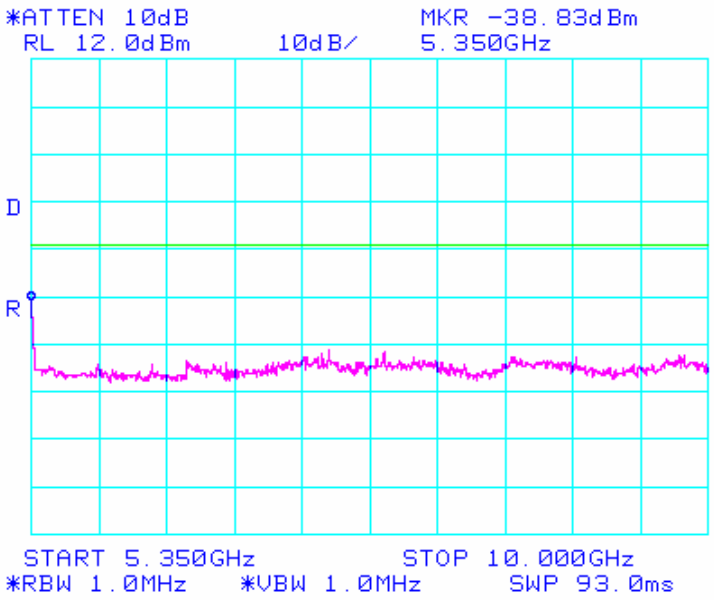
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	B	JC



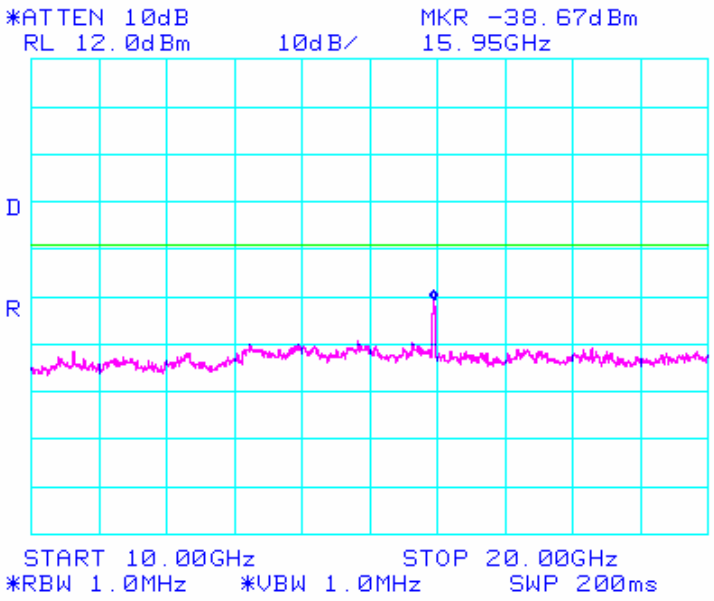
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	B	JC



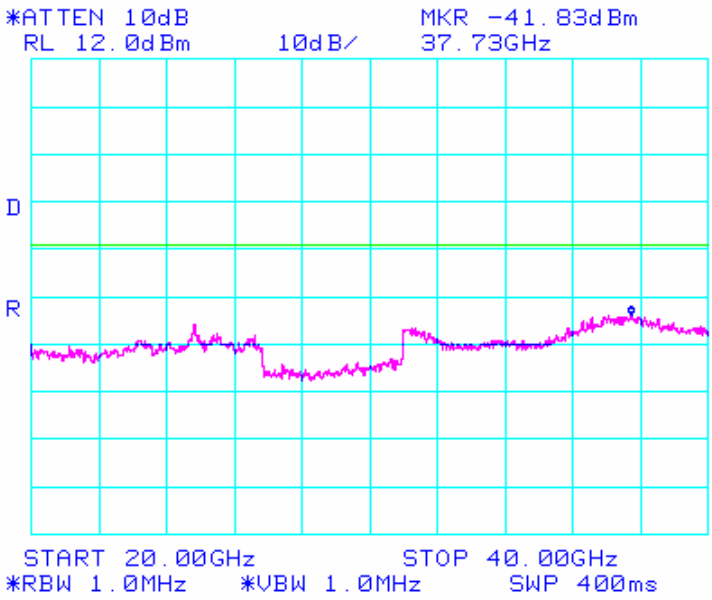
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

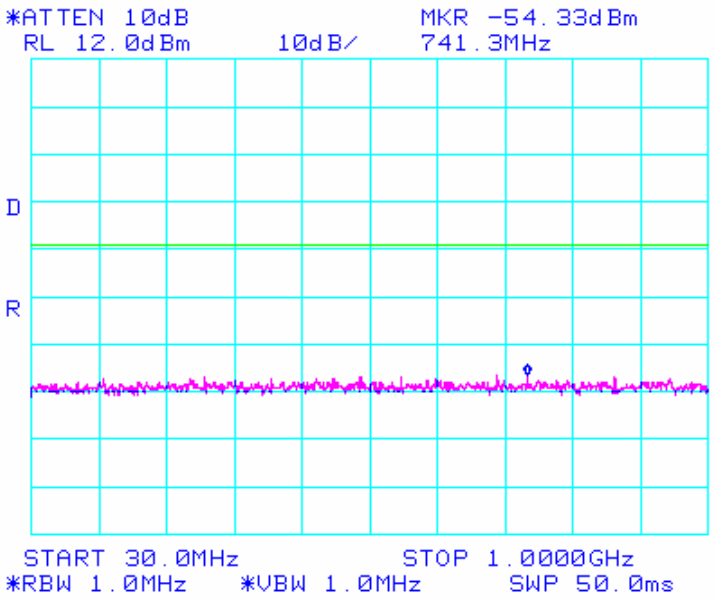
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	B	JC



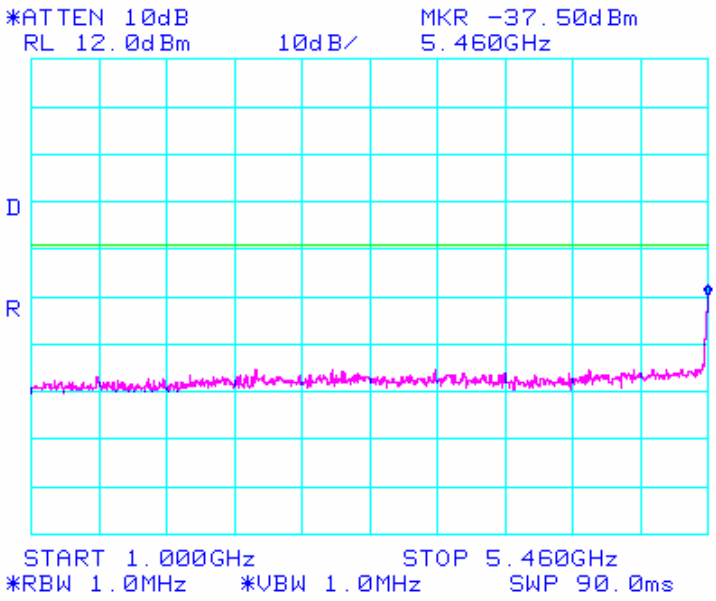
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	B	JC



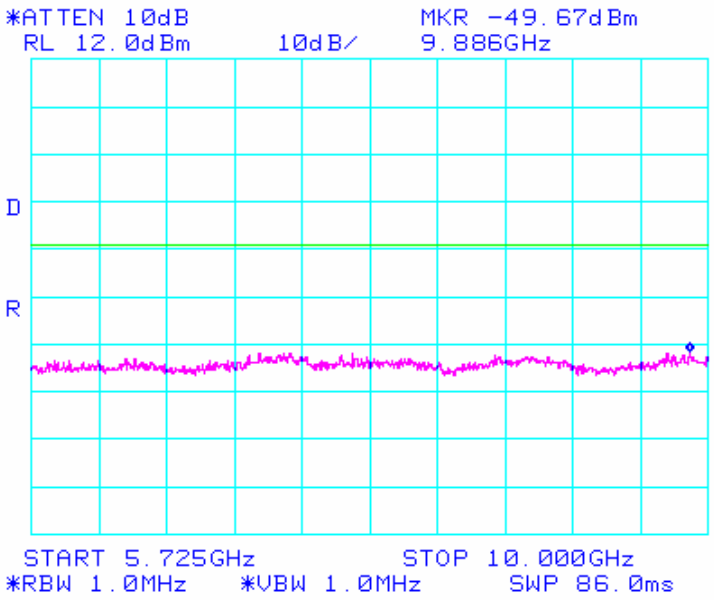
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	B	JC



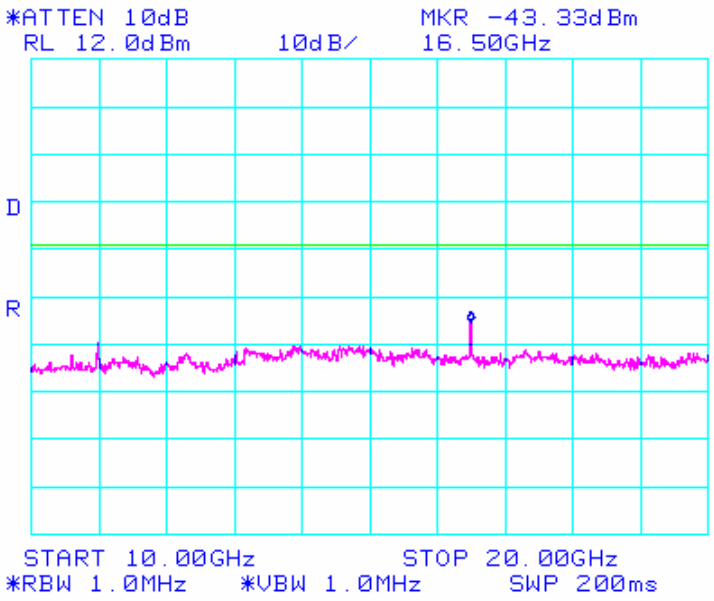
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	B	JC



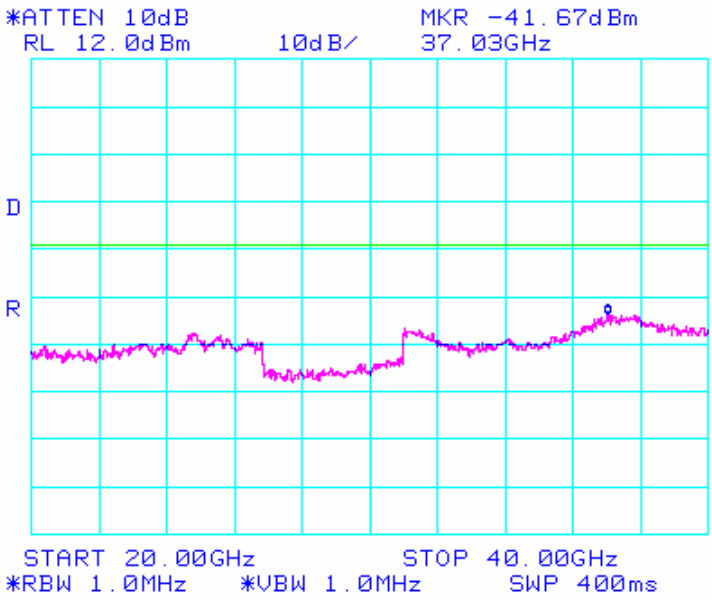
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

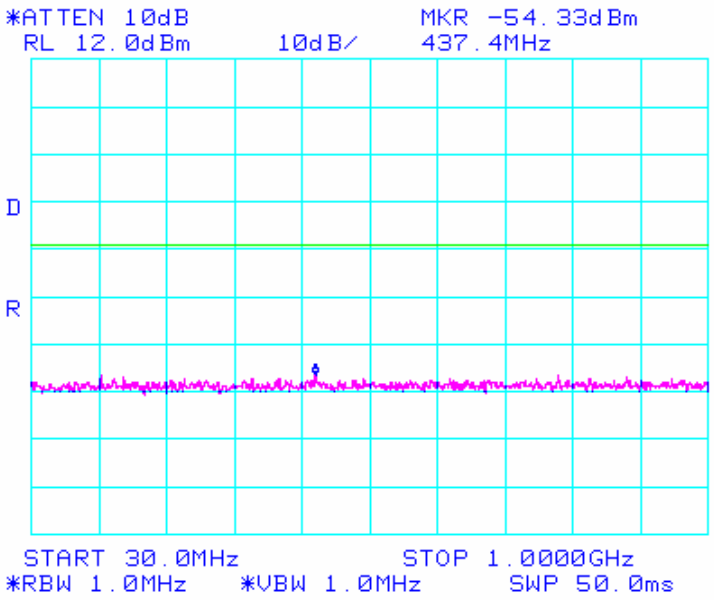
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	B	JC



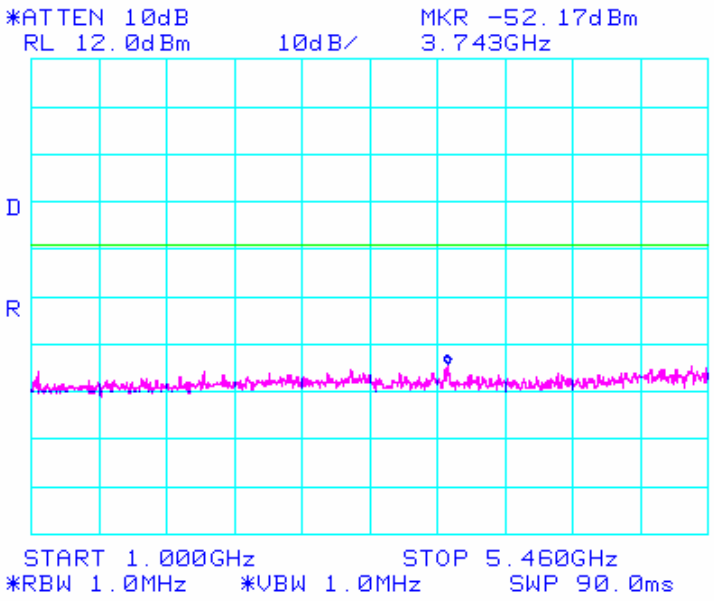
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	B	JC



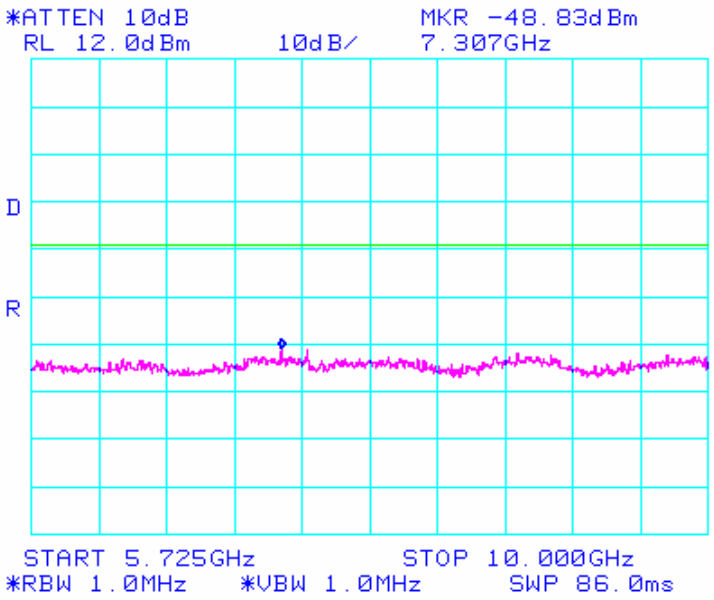
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	B	JC



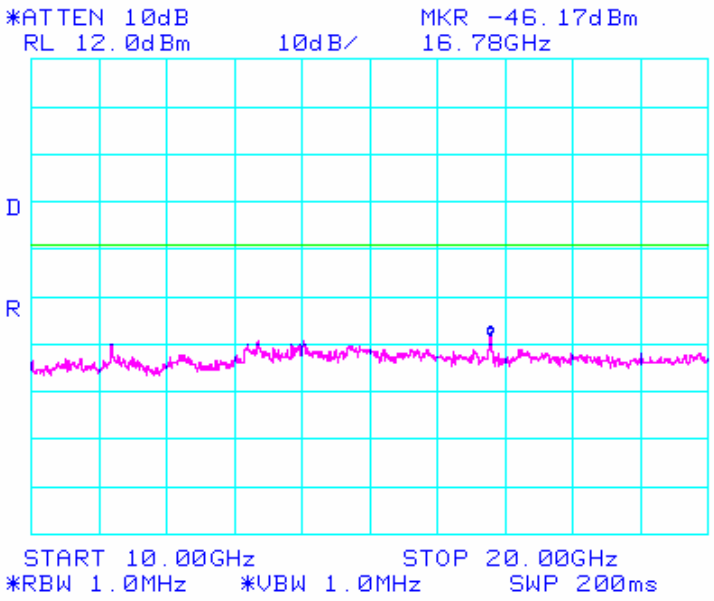
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	B	JC



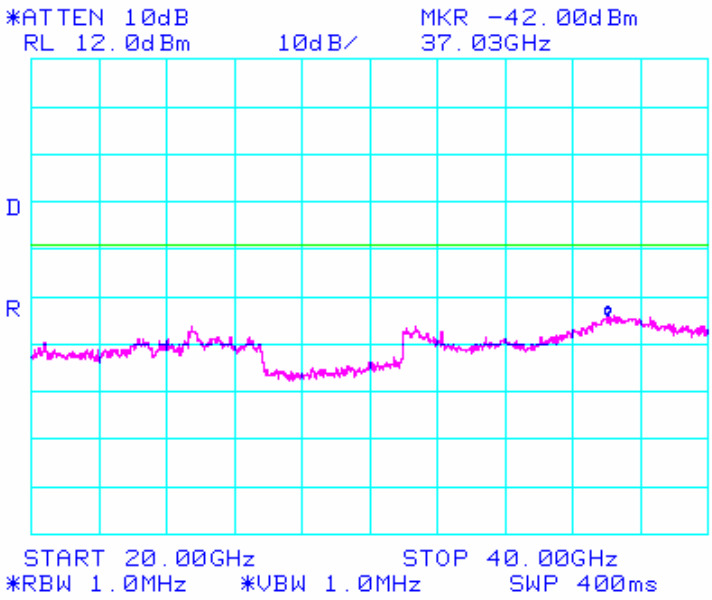
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

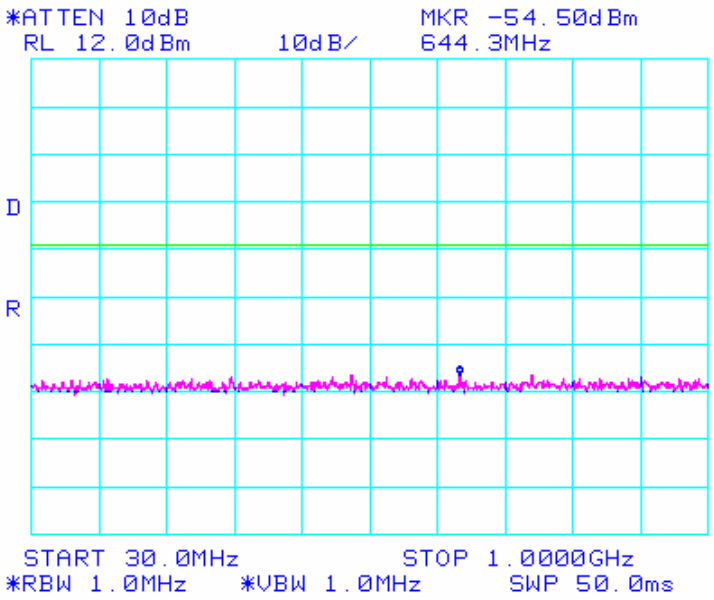
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	B	JC



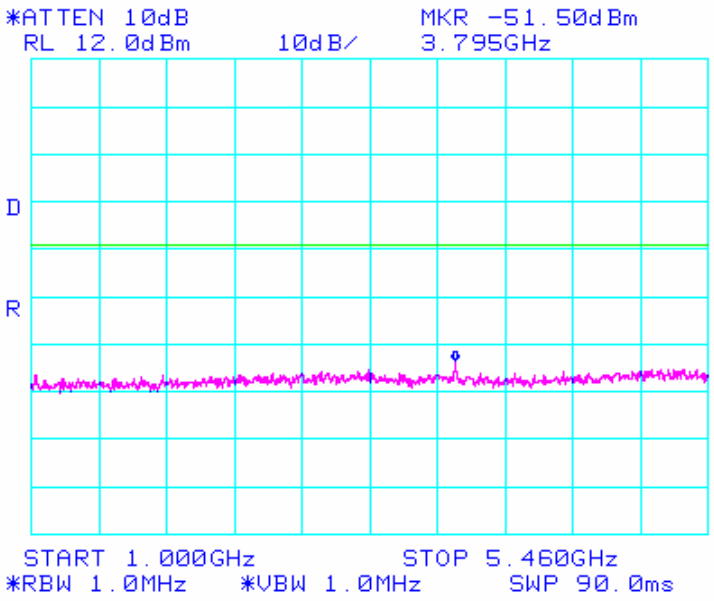
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	B	JC



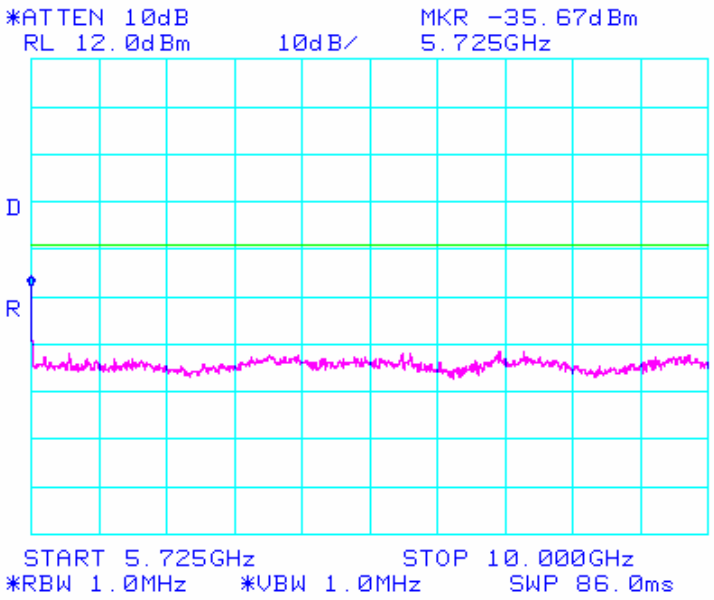
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	B	JC



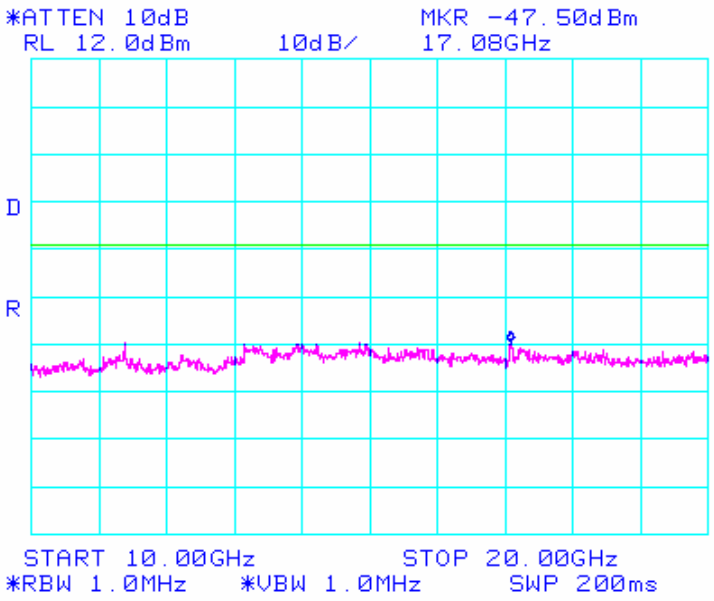
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	B	JC



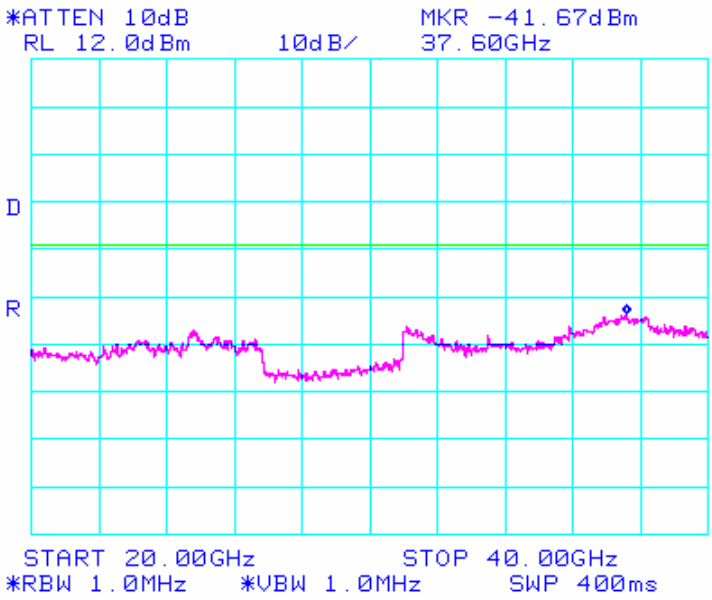
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11a Mode

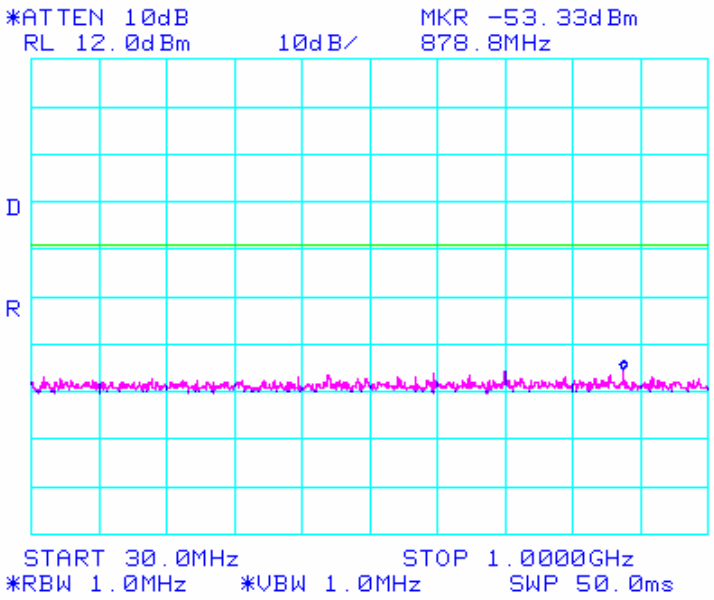
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	B	JC



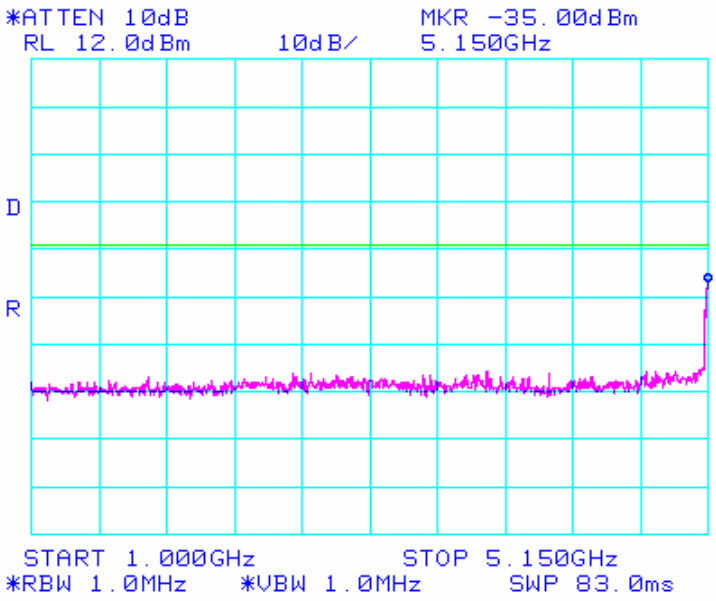
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	B	JC



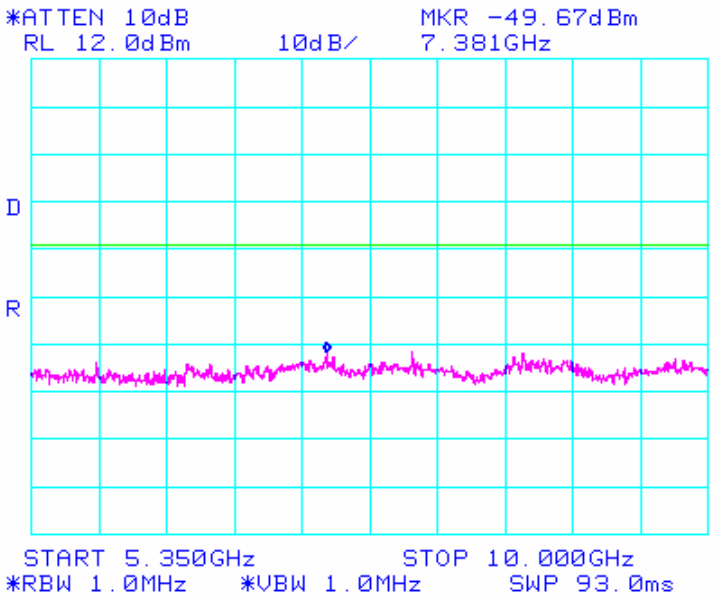
Test Date	*Data*	*Chain*	*Test Eng.*
05/30/08	5.18 GHz	B	JC



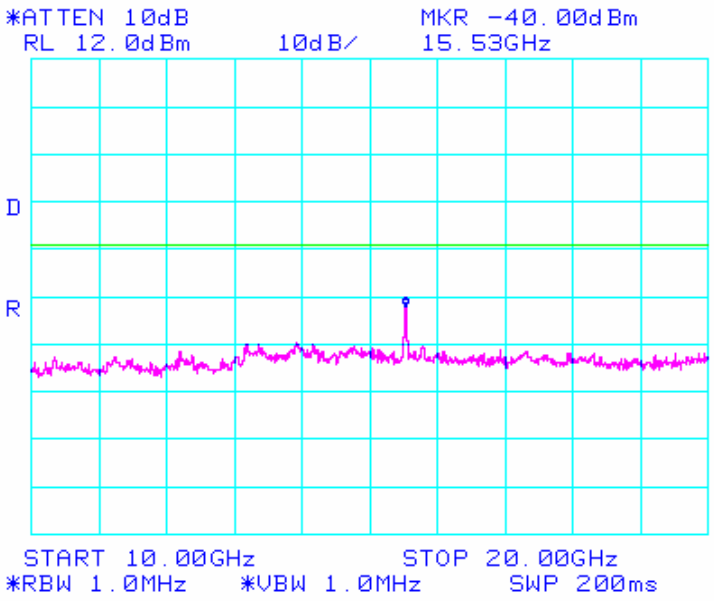
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	B	JC



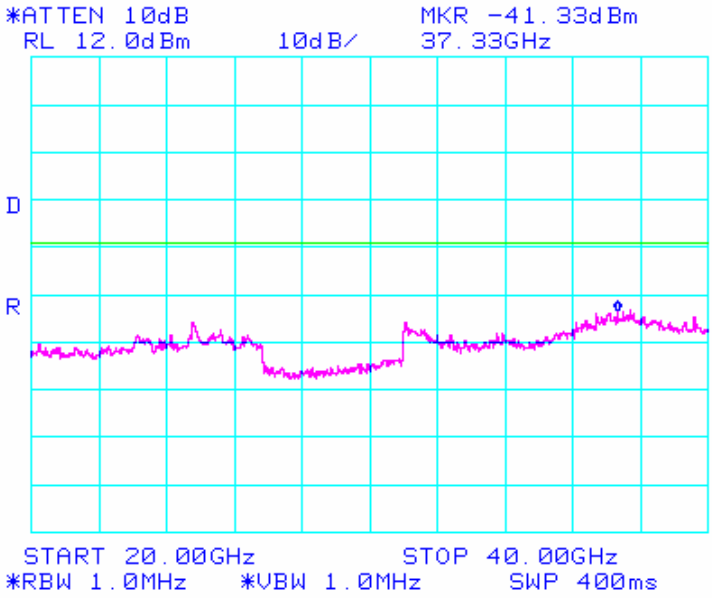
Test Date	*Data*	*Chain*	*Test Eng.*
05/30/08	5.18 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

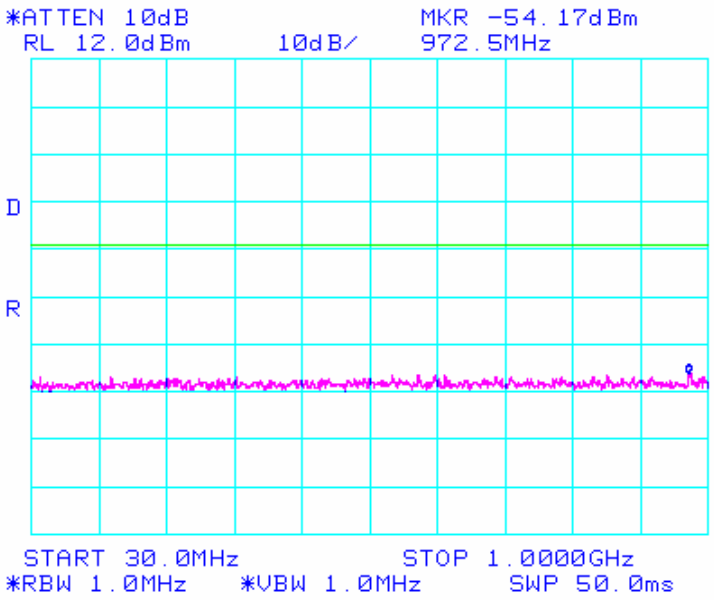
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.18 GHz	B	JC



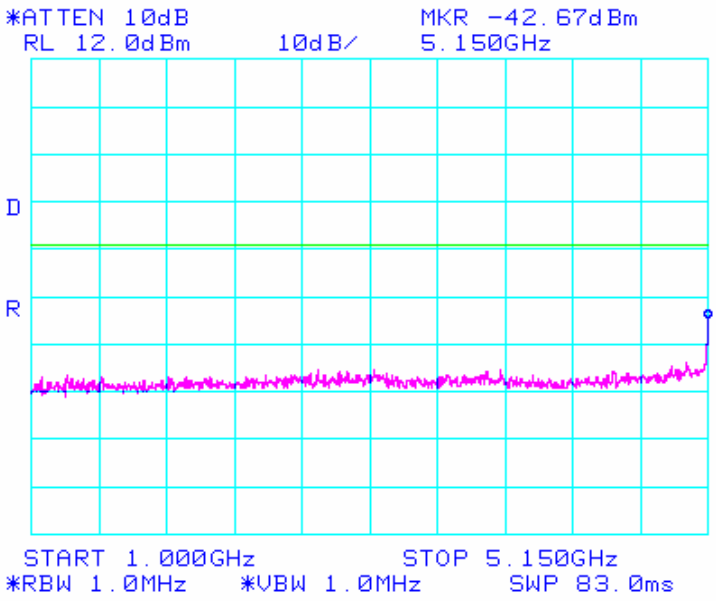
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	B	JC



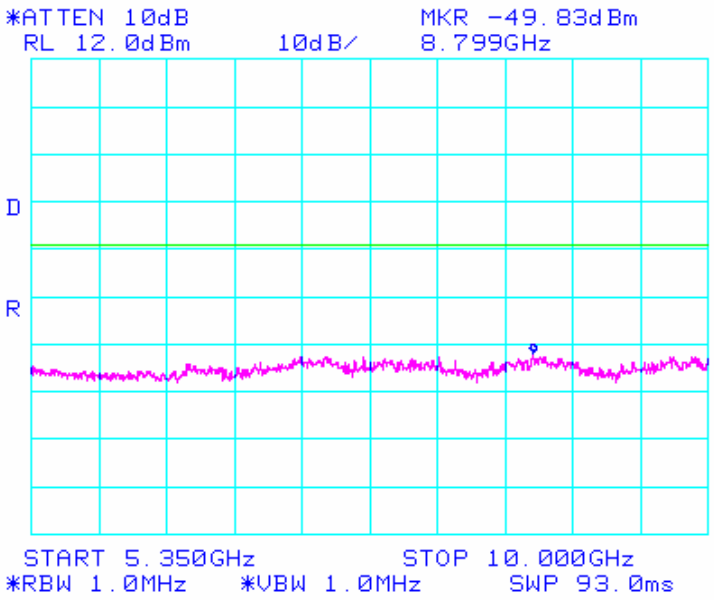
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	B	JC



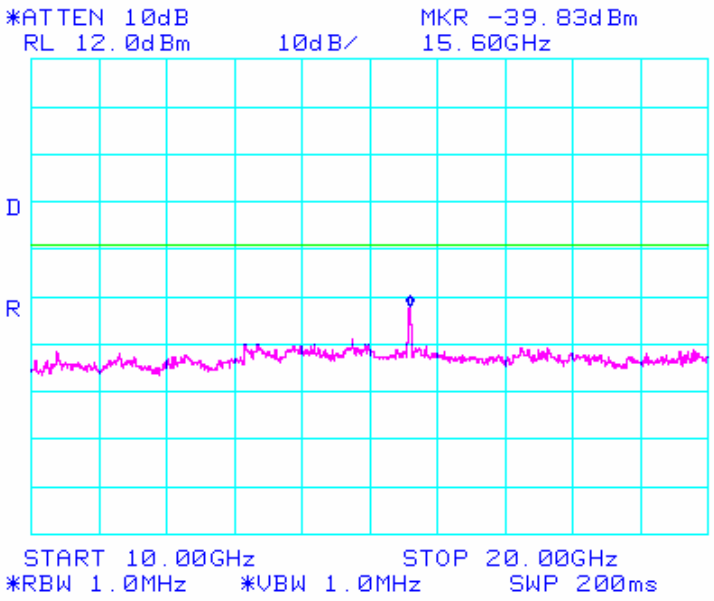
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	B	JC



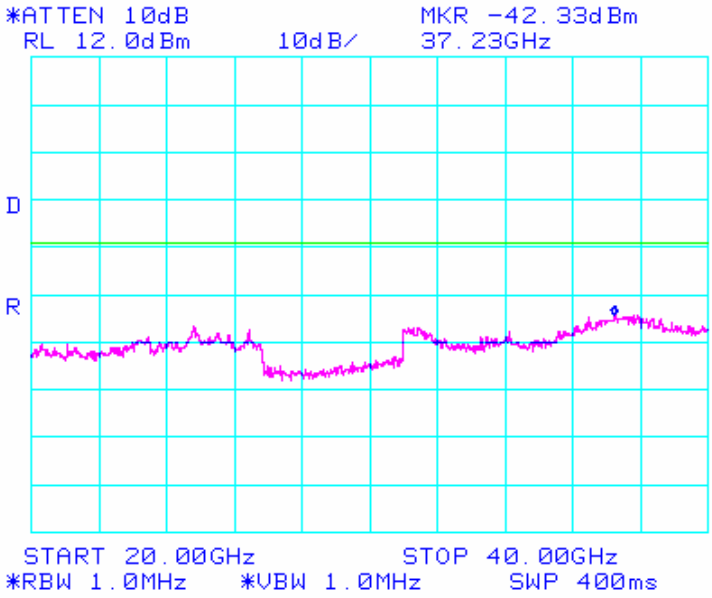
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

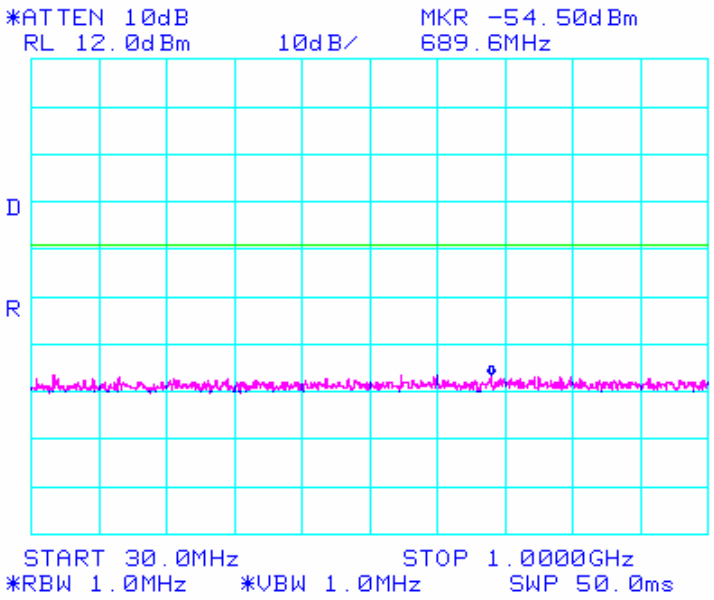
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.20 GHz	B	JC



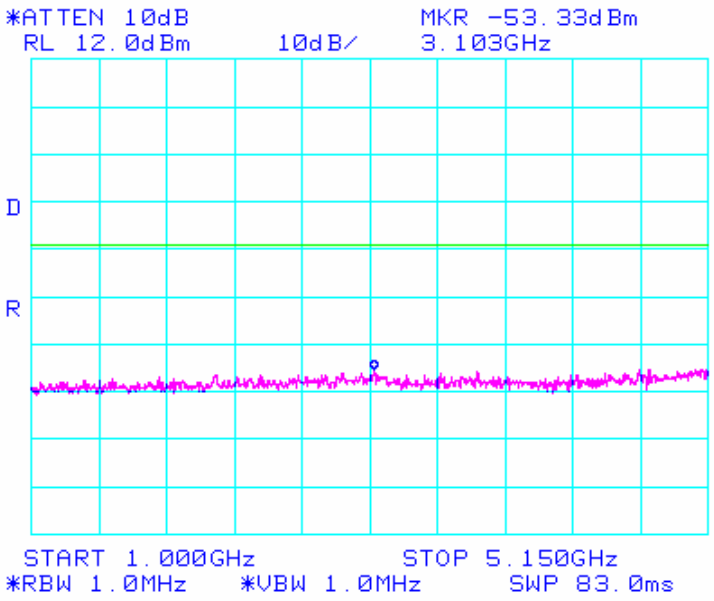
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	B	JC



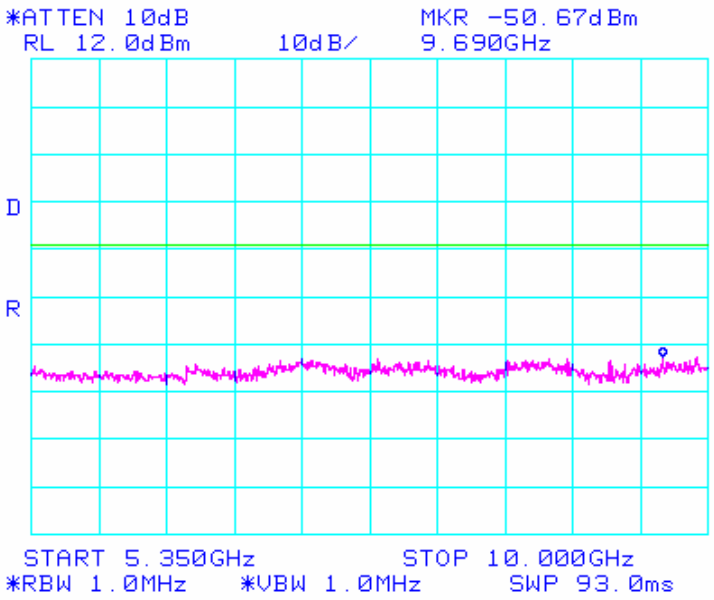
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	B	JC



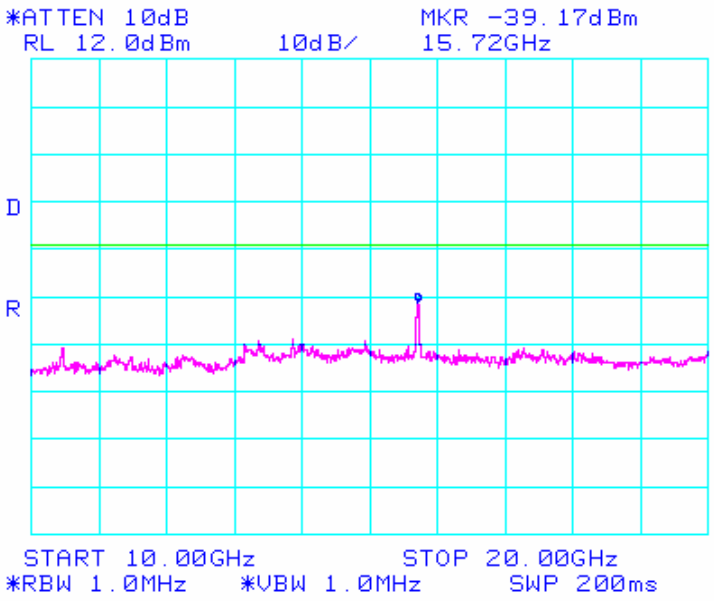
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	B	JC



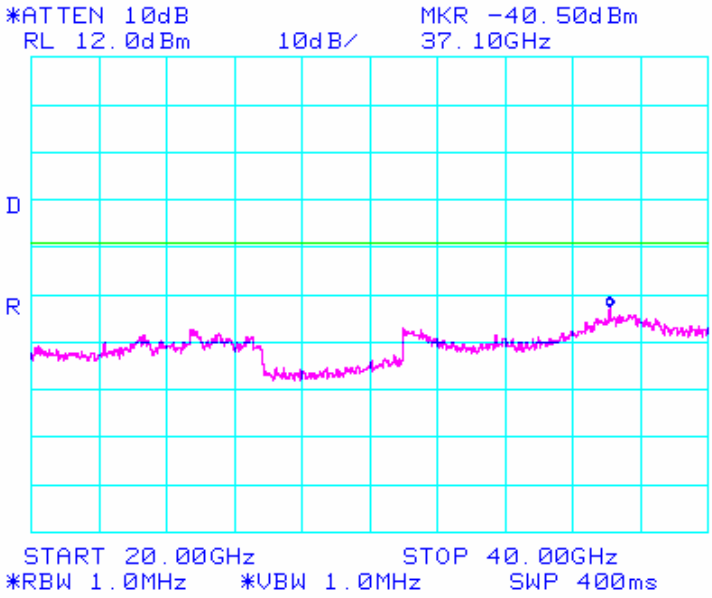
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

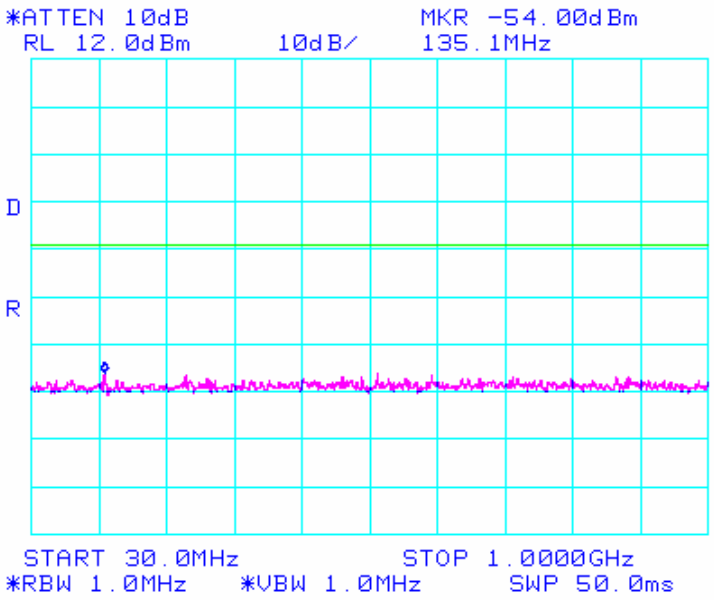
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.24 GHz	B	JC



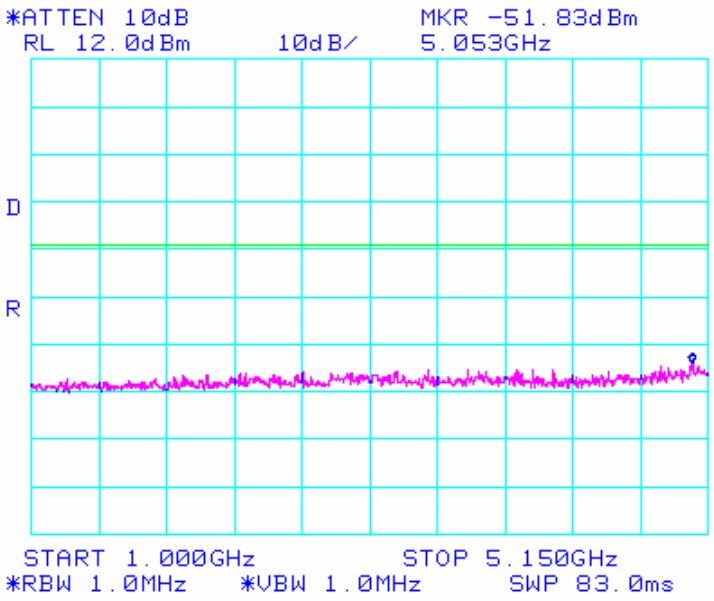
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	B	JC



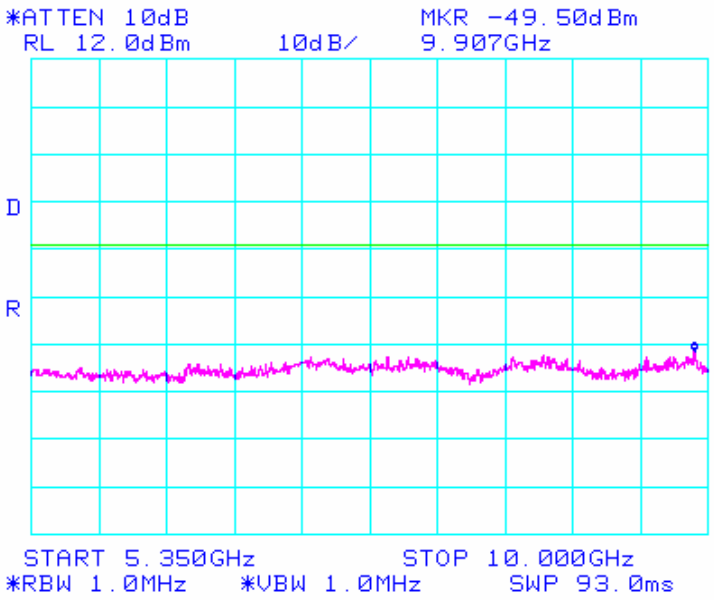
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	B	JC



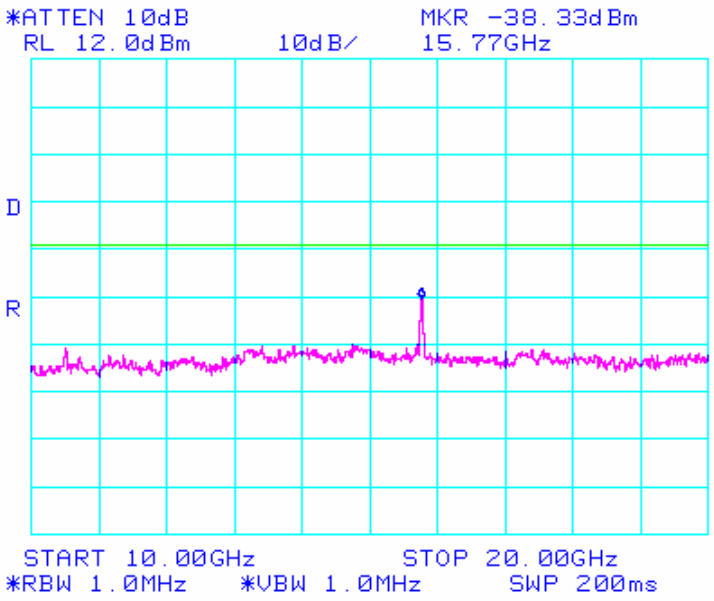
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	B	JC



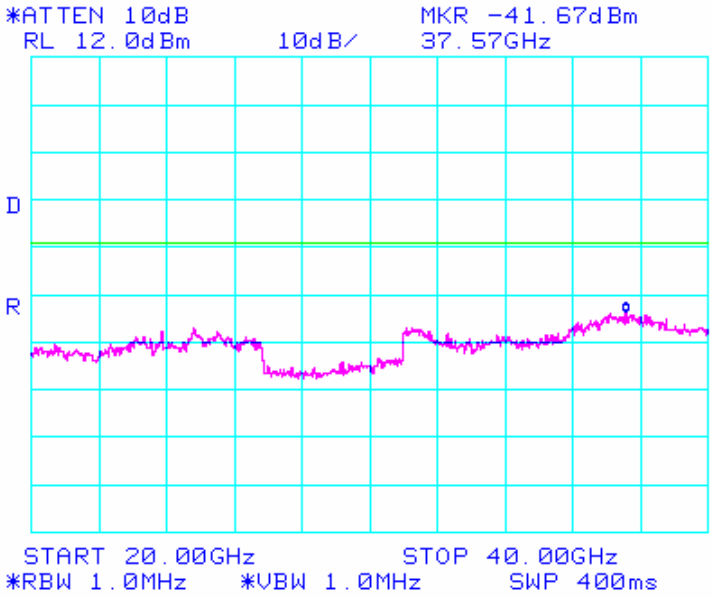
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

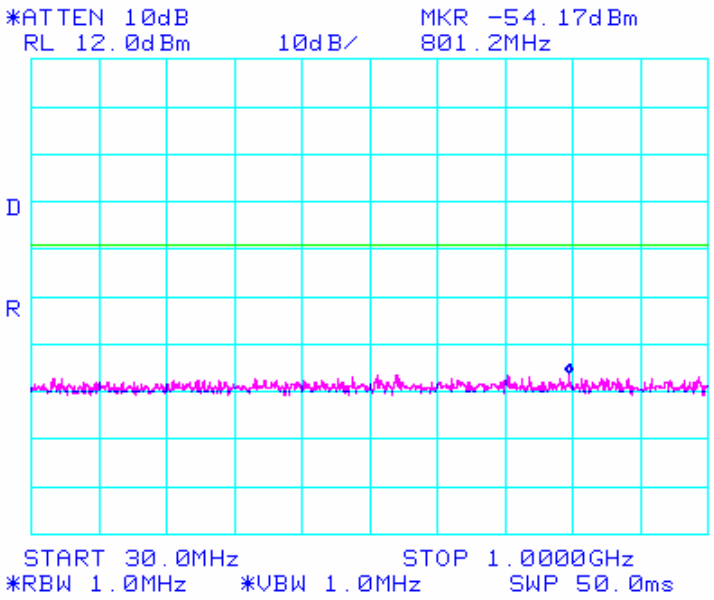
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.26 GHz	B	JC



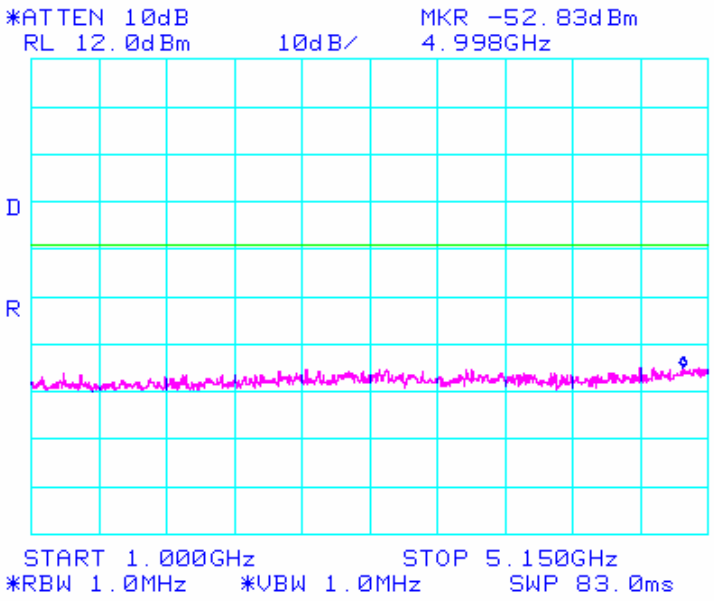
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	B	JC



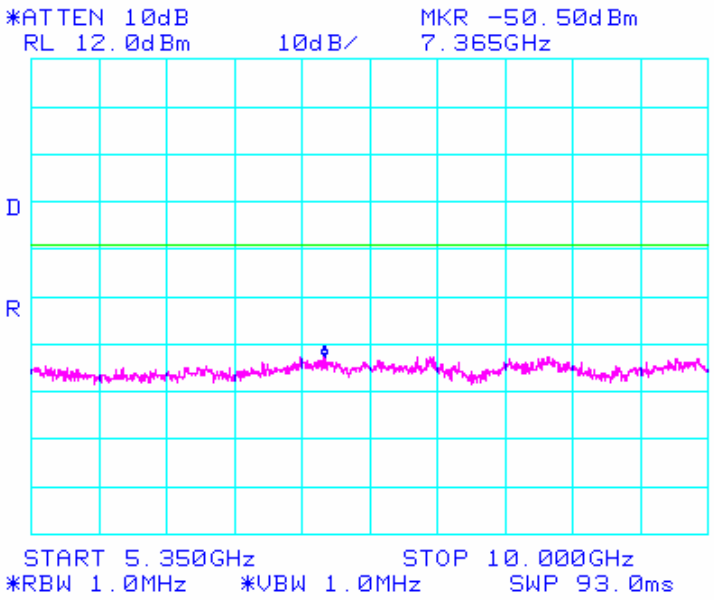
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	B	JC



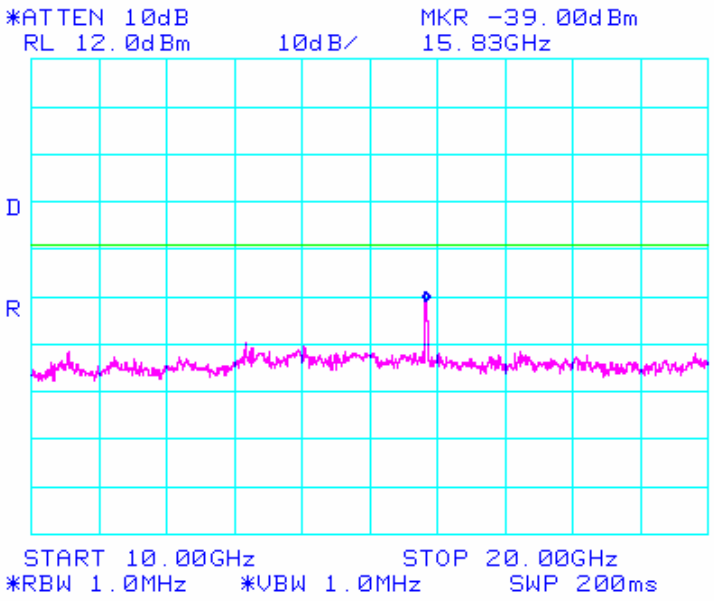
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	B	JC



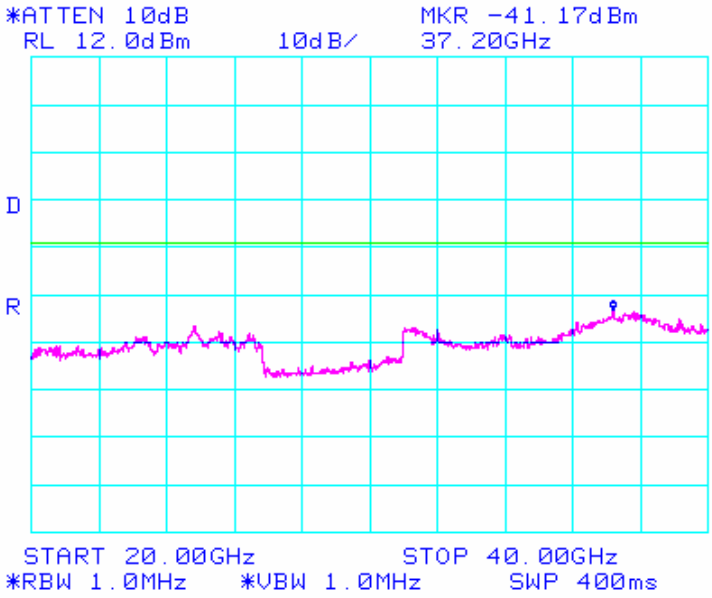
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

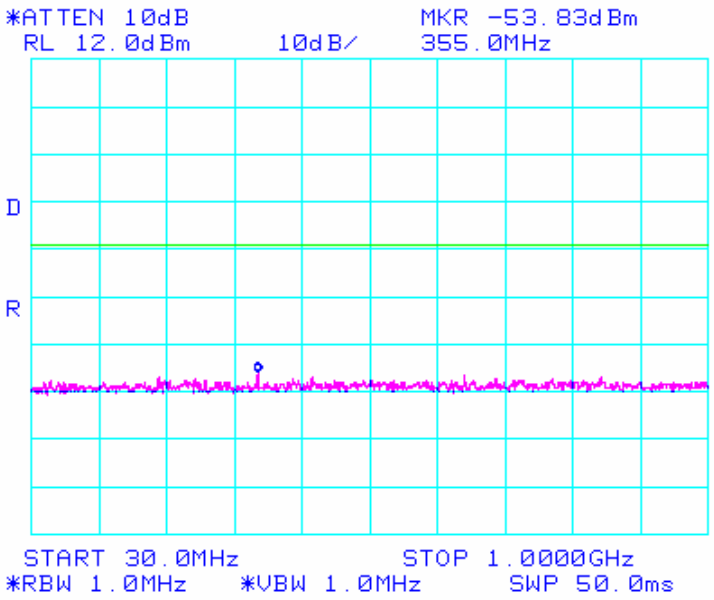
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.28 GHz	B	JC



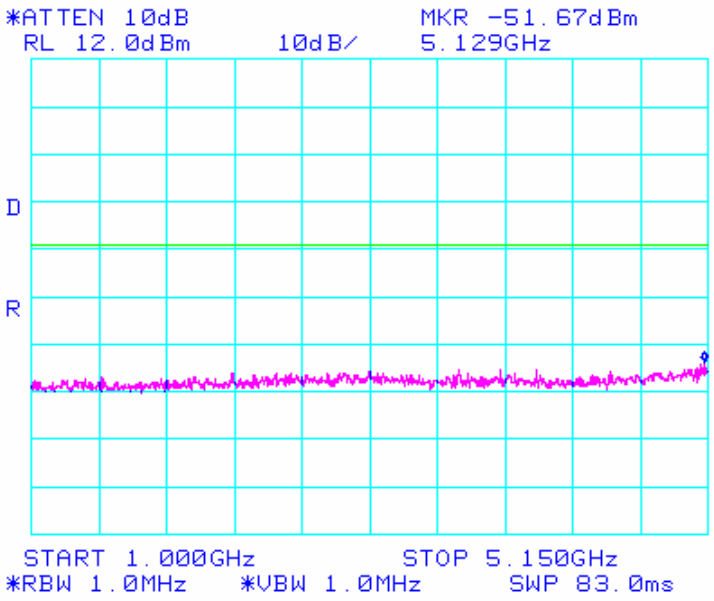
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	B	JC



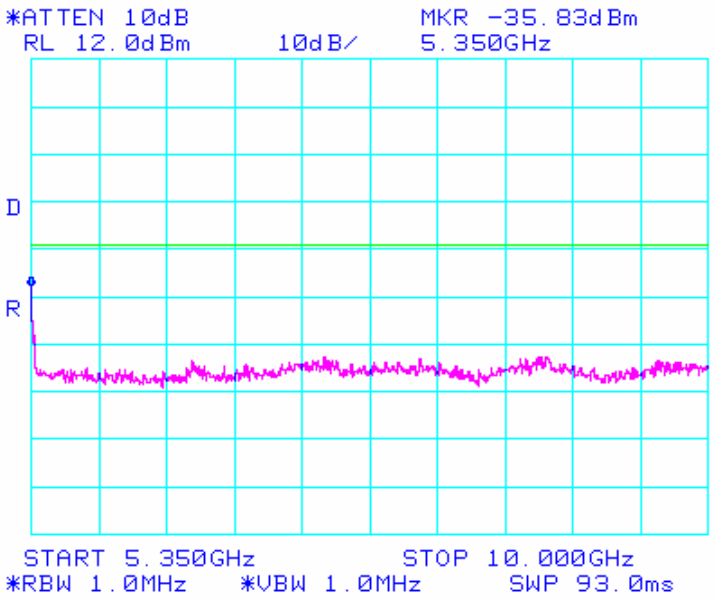
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	B	JC



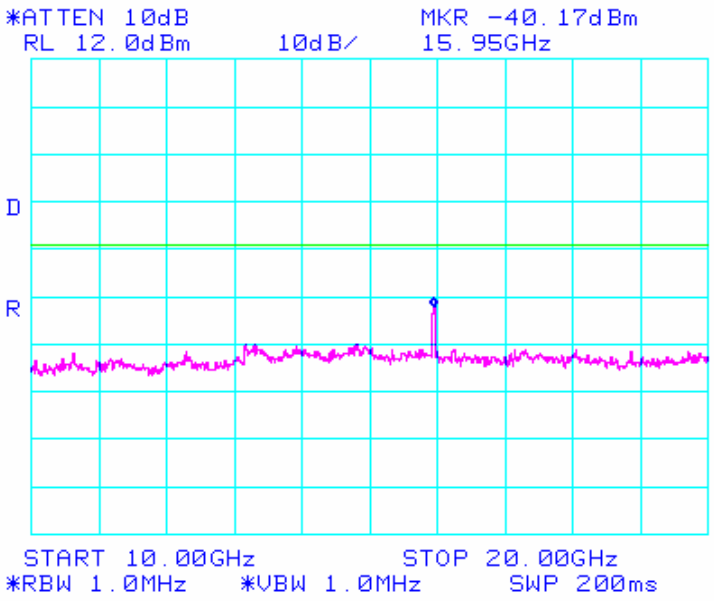
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	B	JC



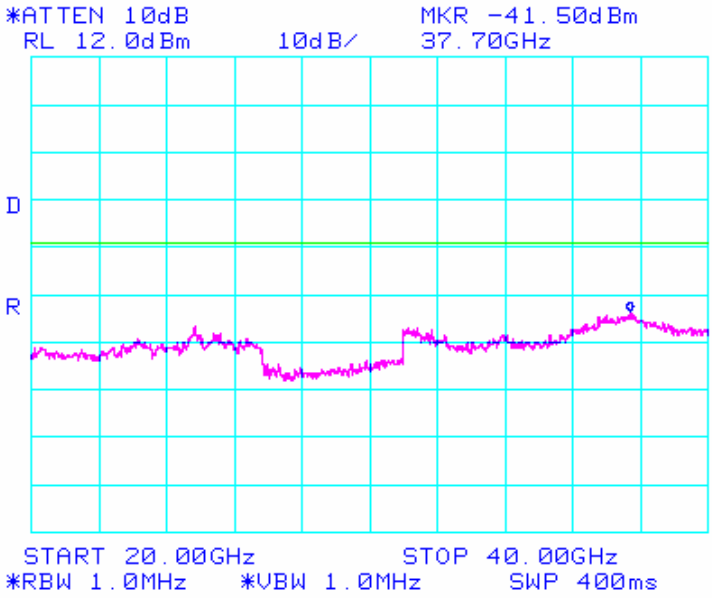
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

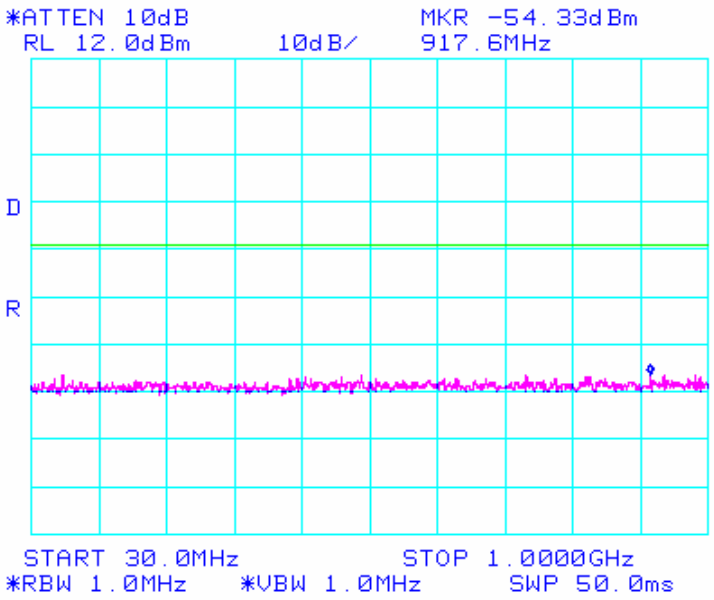
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.32 GHz	B	JC



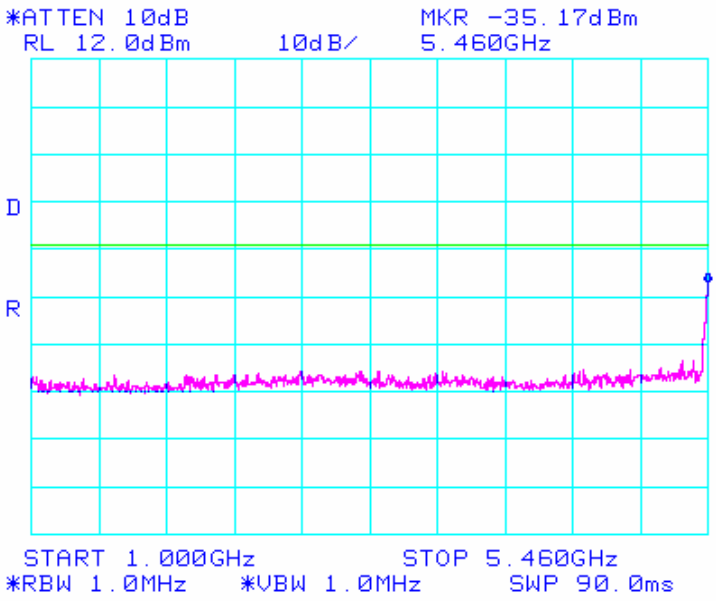
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	B	JC



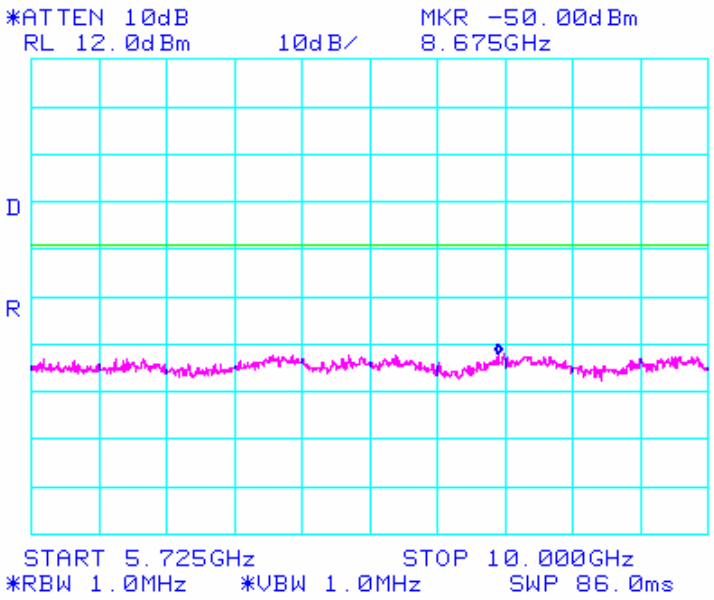
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	B	JC



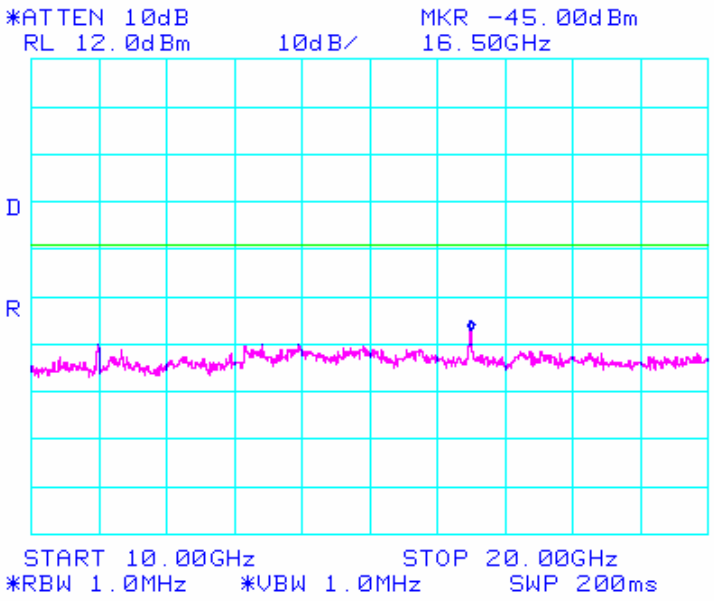
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	B	JC



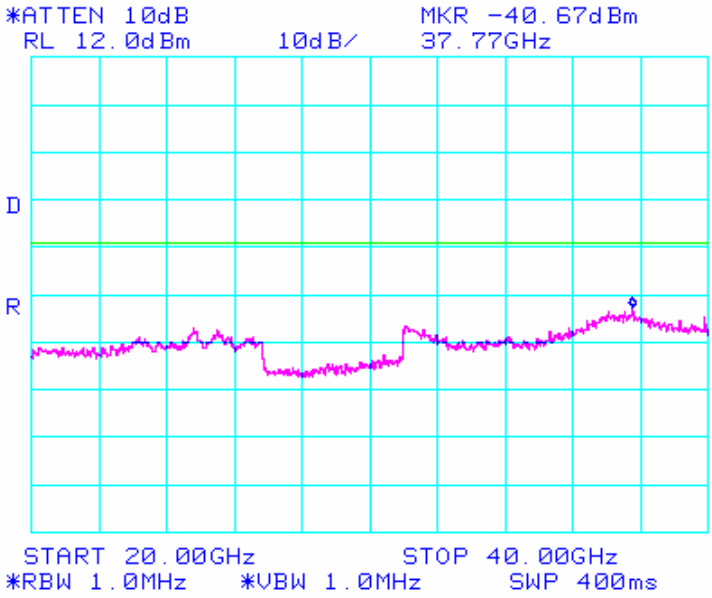
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

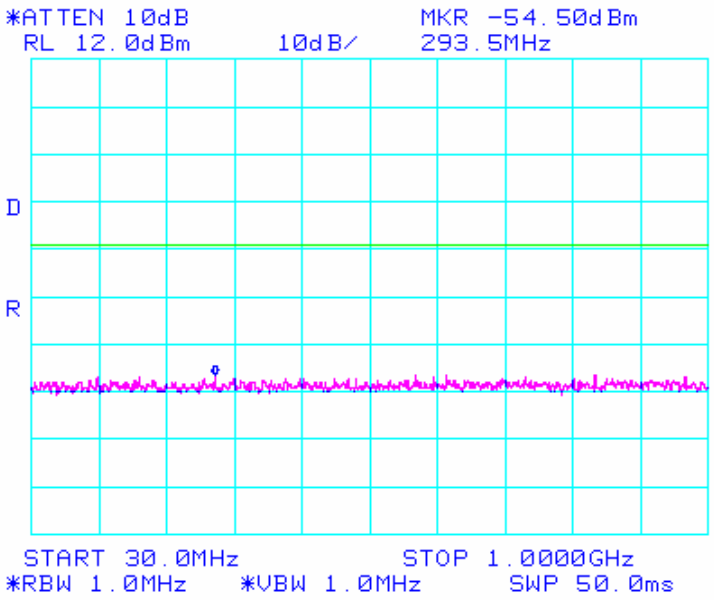
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.50 GHz	B	JC



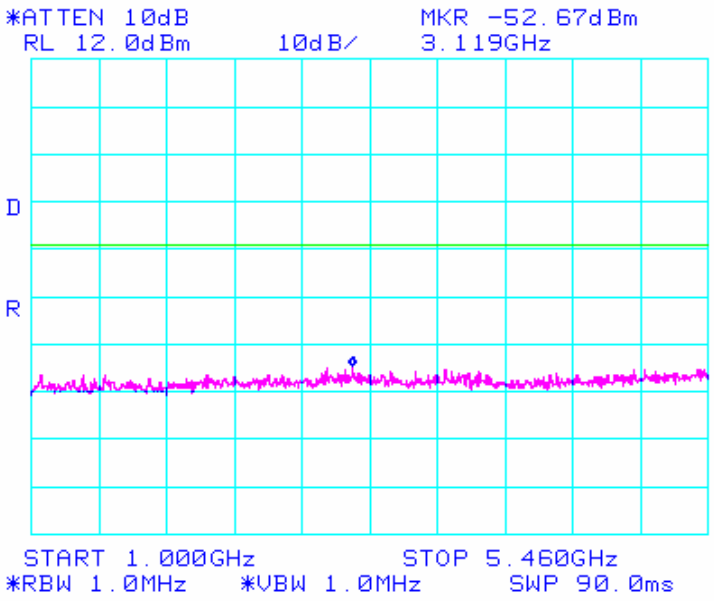
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	B	JC



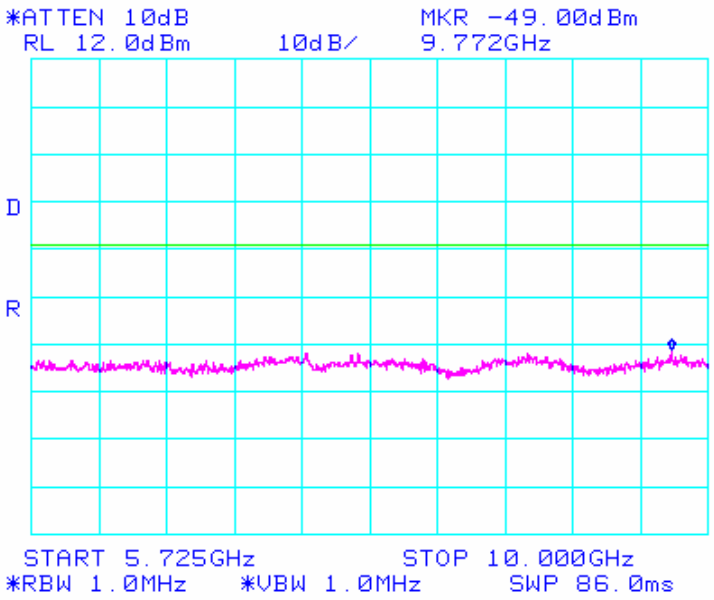
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	B	JC



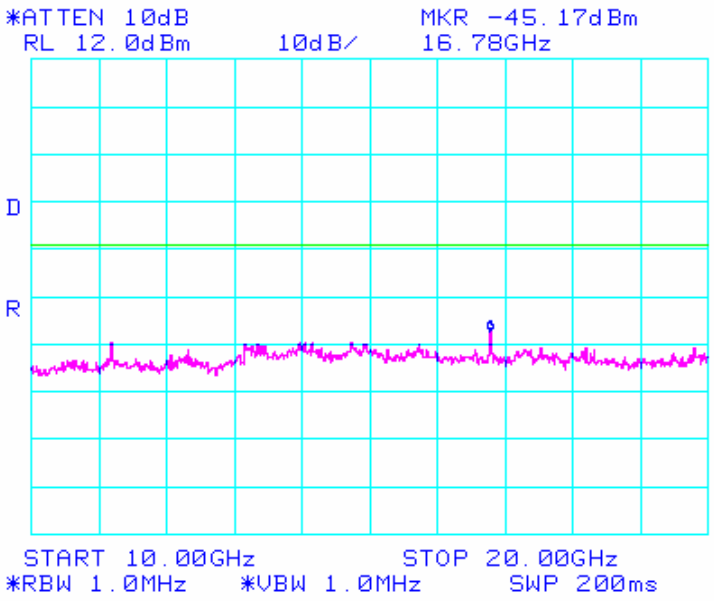
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	B	JC



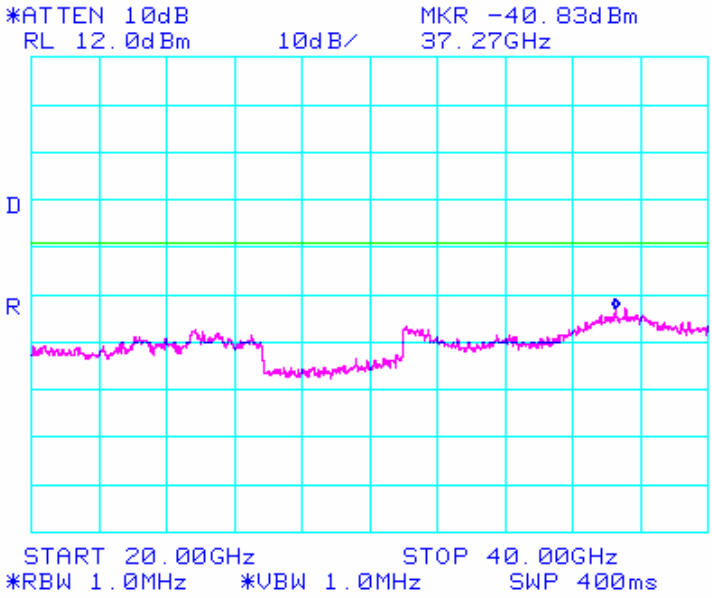
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

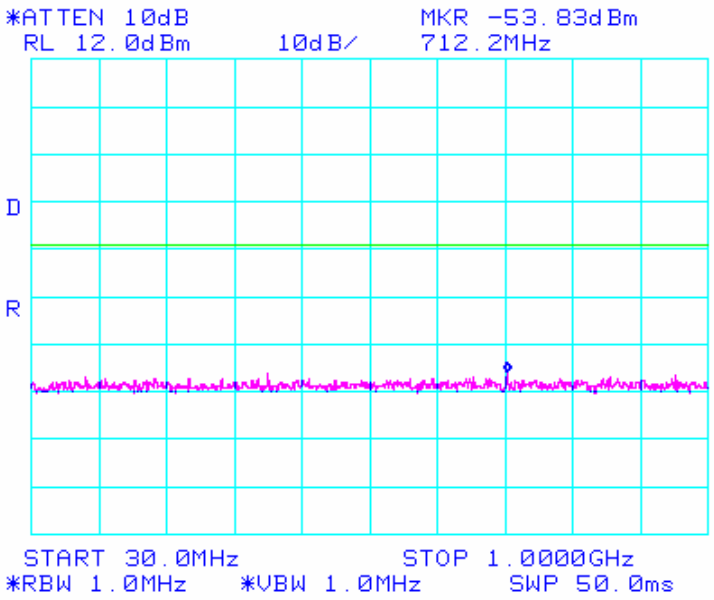
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.60 GHz	B	JC



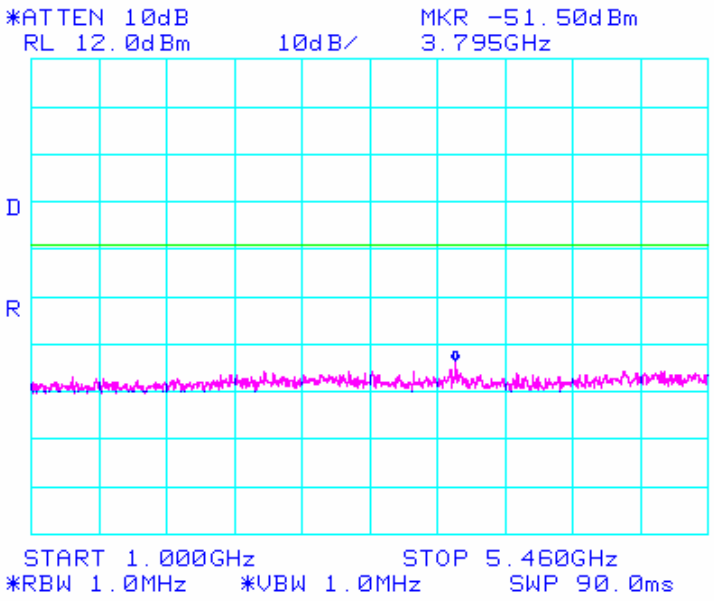
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	B	JC



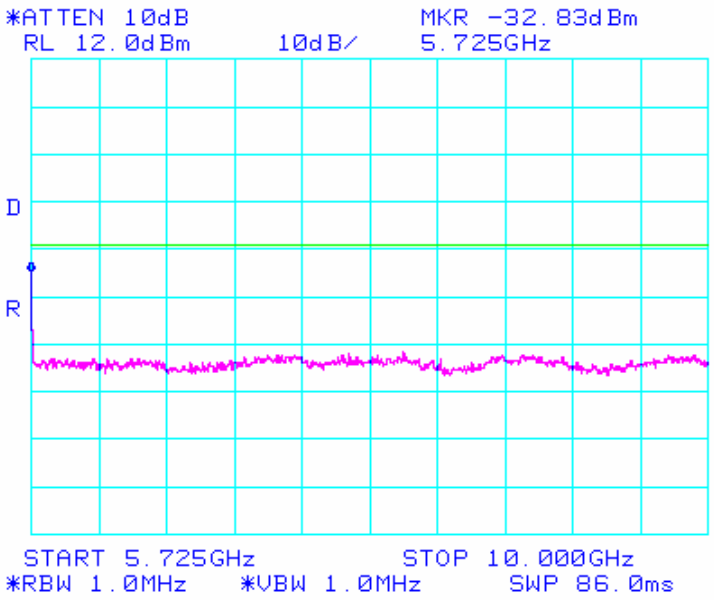
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	B	JC



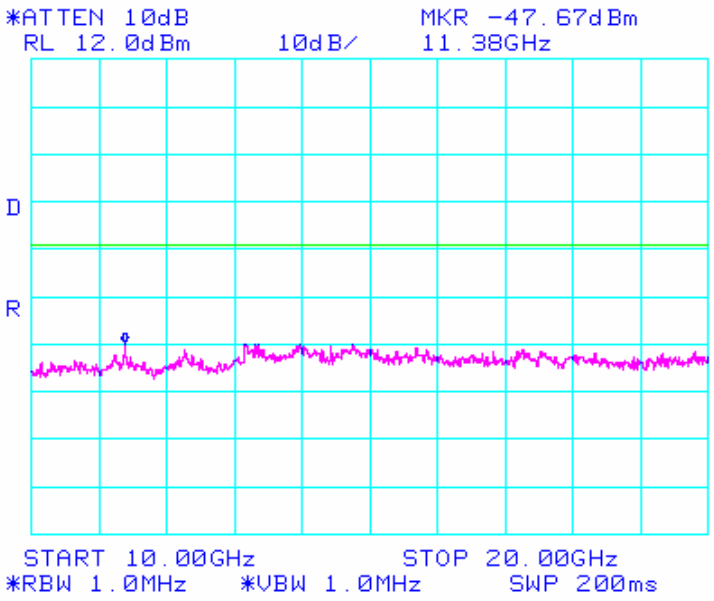
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	B	JC



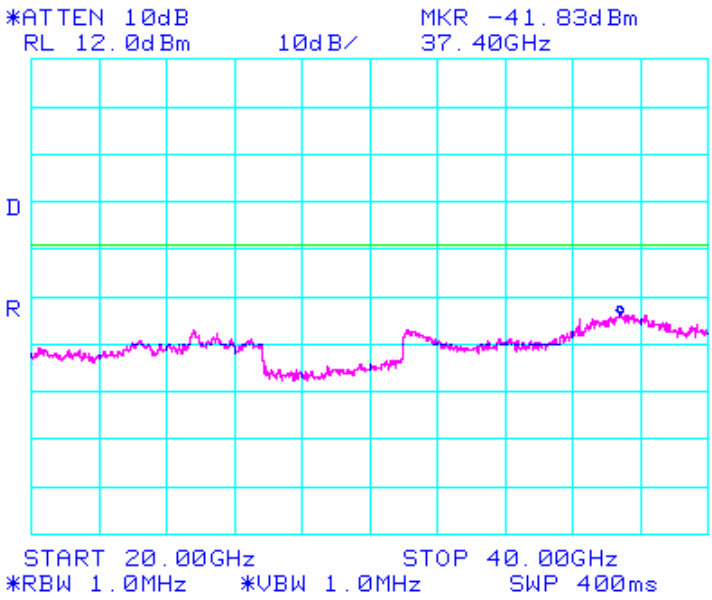
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

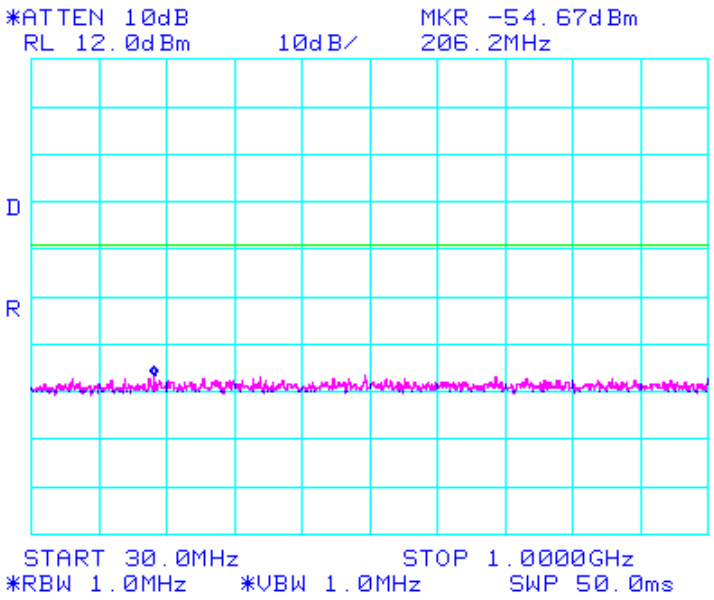
Test Date	*Data*	*Chain*	*Test Eng.*
08/05/09	5.70 GHz	B	JC



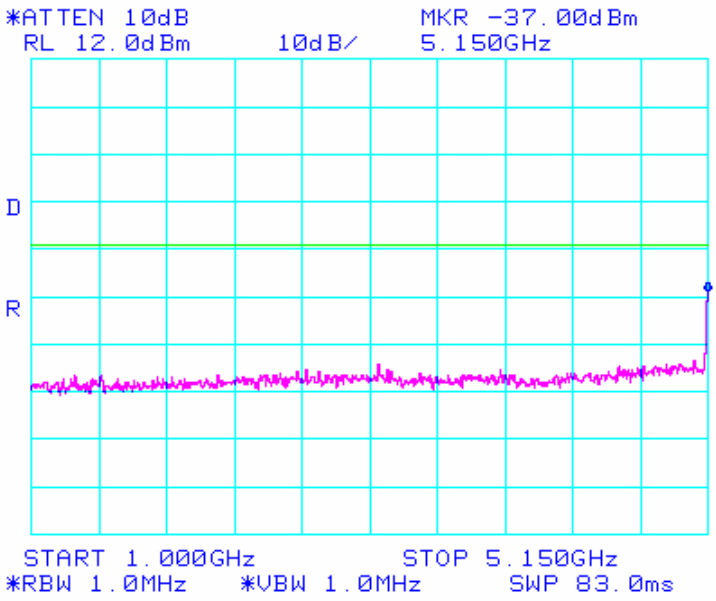
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.19 GHz	B	JC



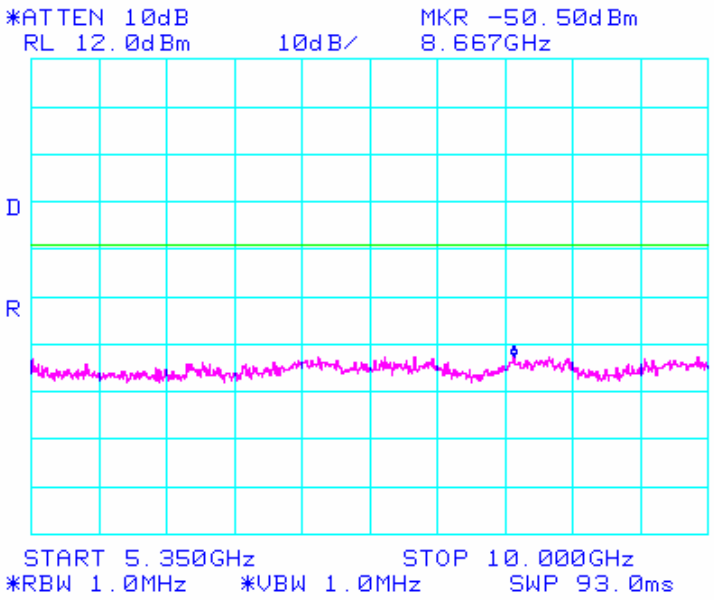
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.19 GHz	B	JC



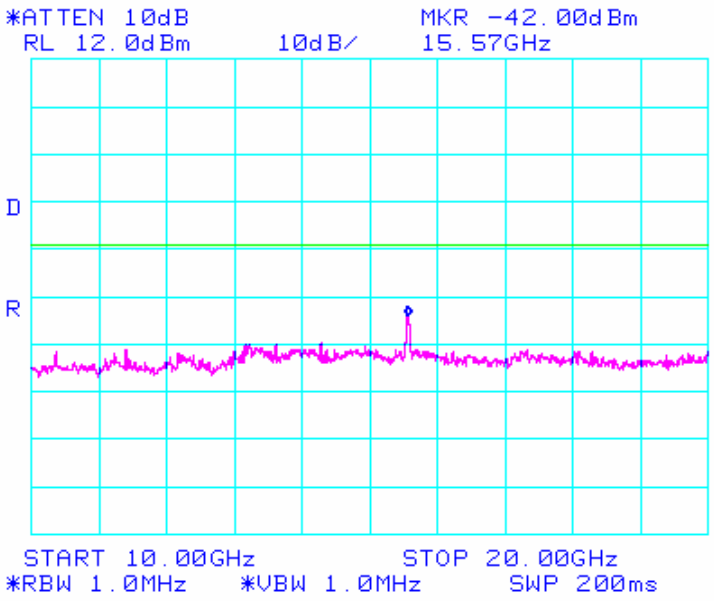
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.19 GHz	B	JC



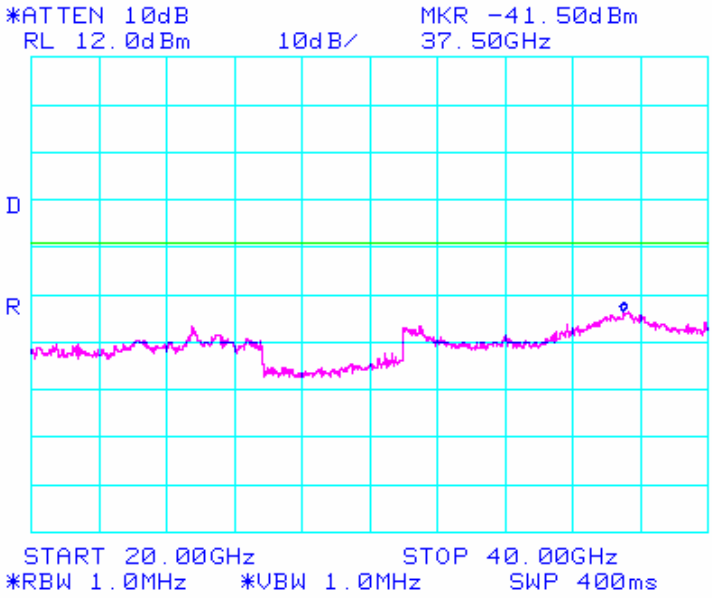
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.19 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

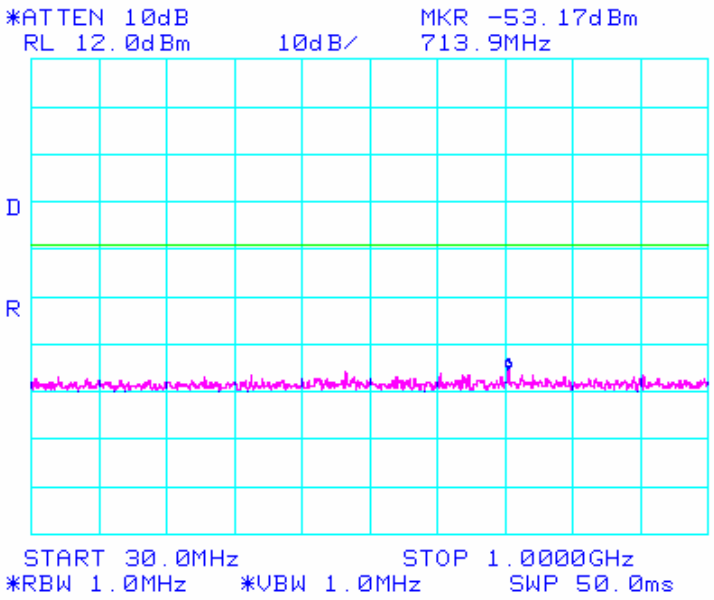
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.19 GHz	B	JC



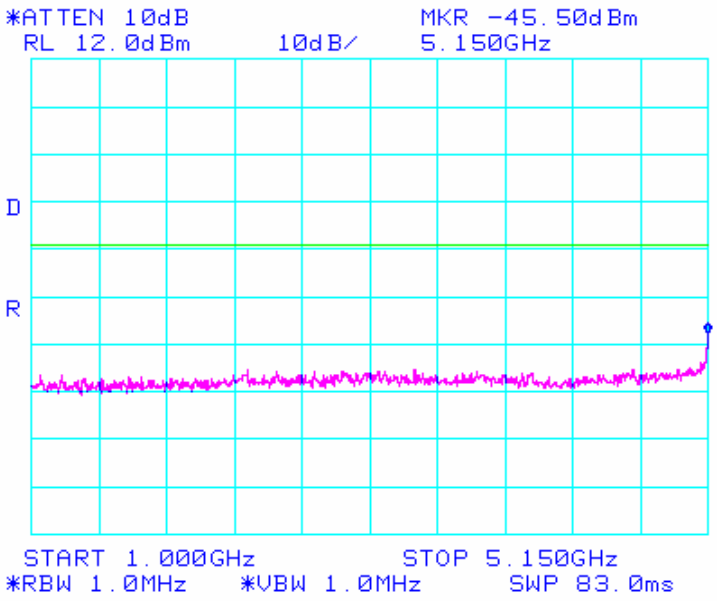
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.23 GHz	B	JC



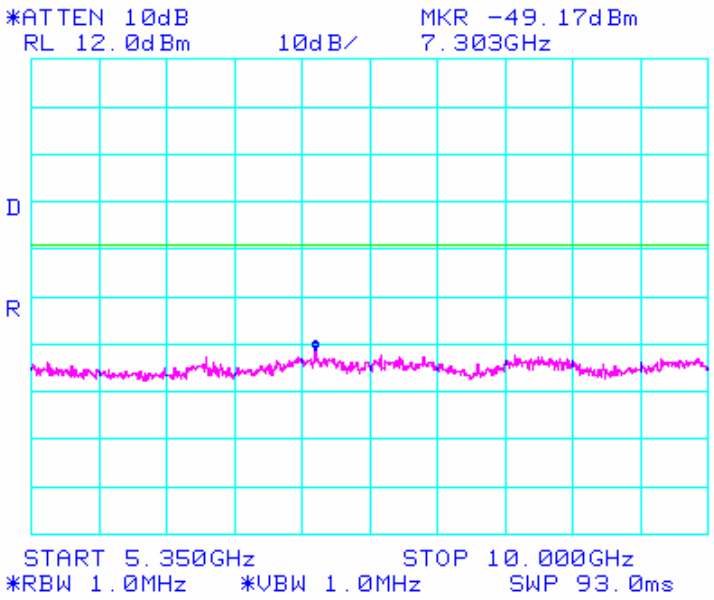
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.23 GHz	B	JC



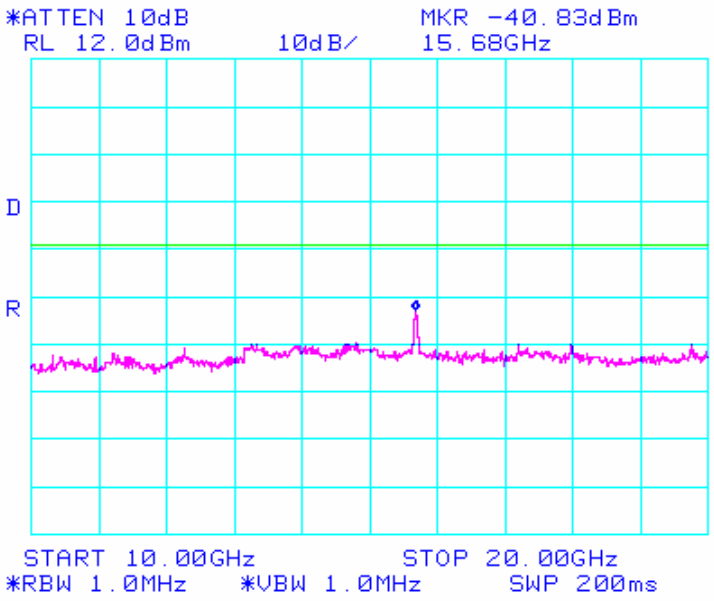
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.23 GHz	B	JC



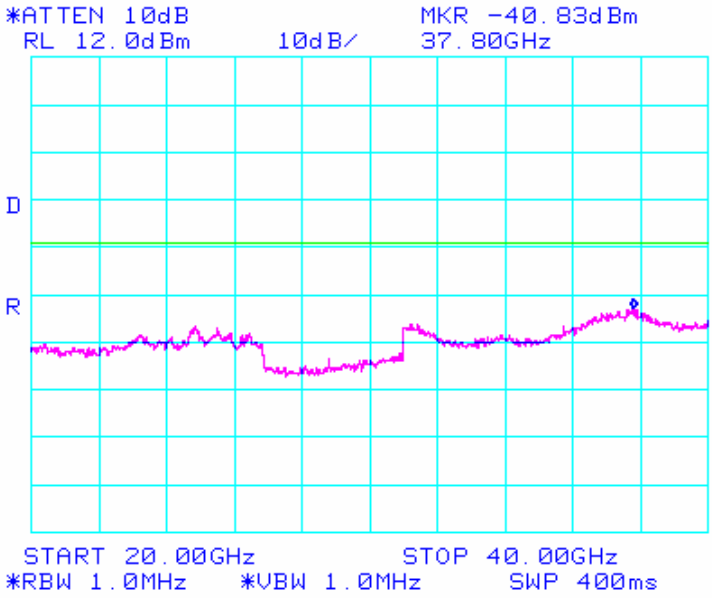
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.23 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

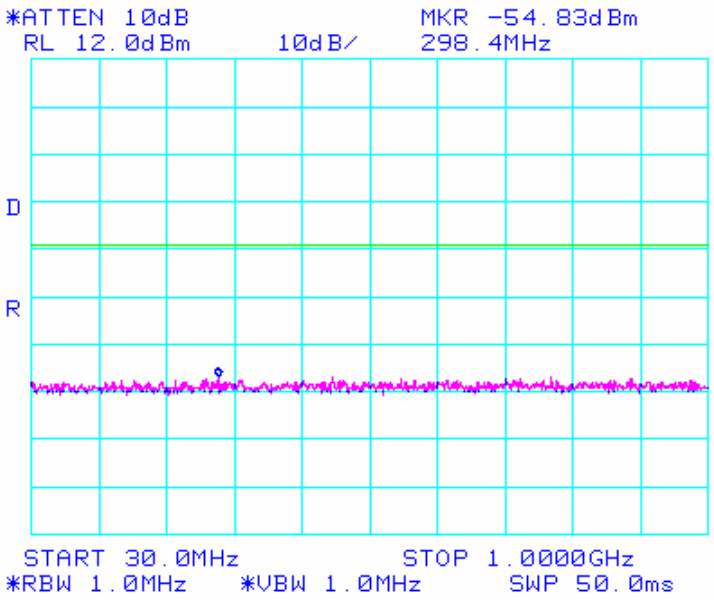
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.23 GHz	B	JC



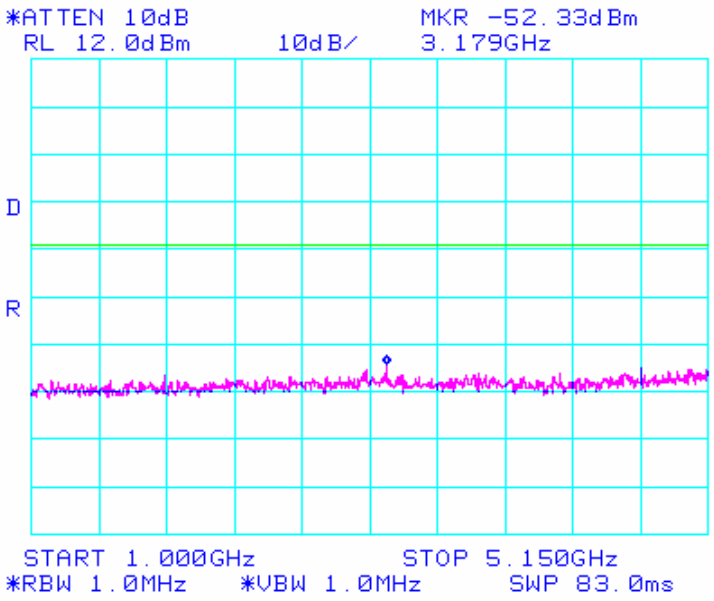
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.27 GHz	B	JC



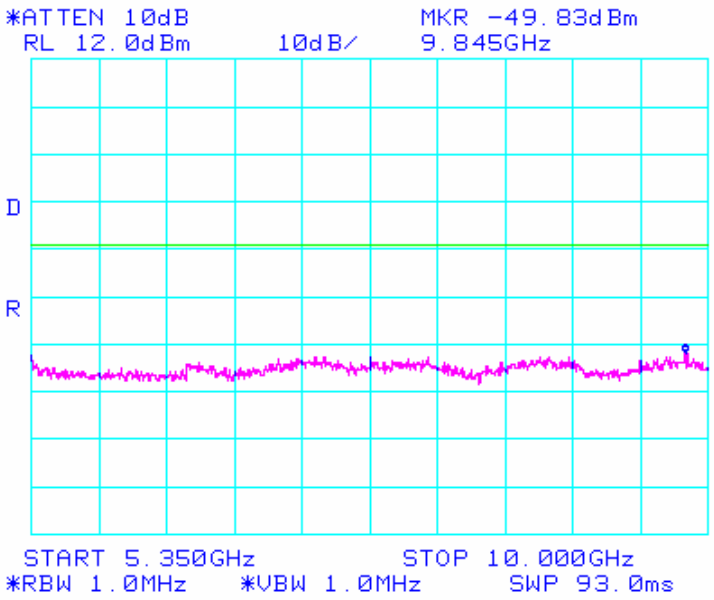
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.27 GHz	B	JC



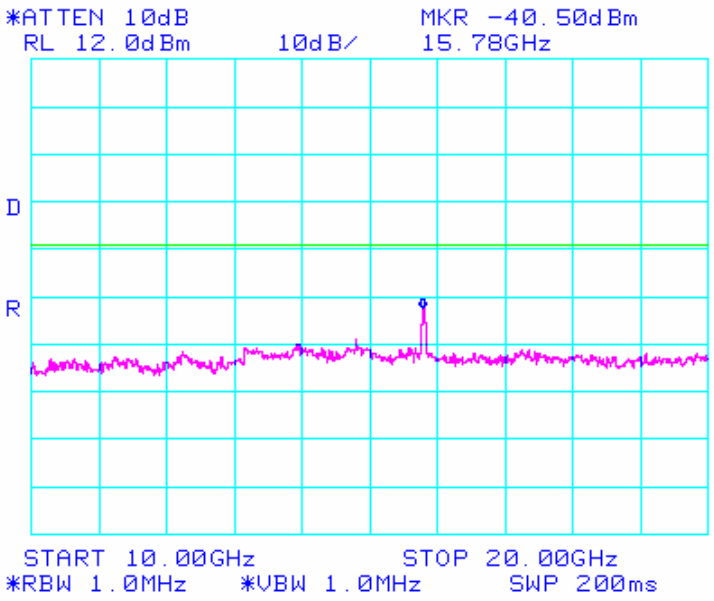
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.27 GHz	B	JC



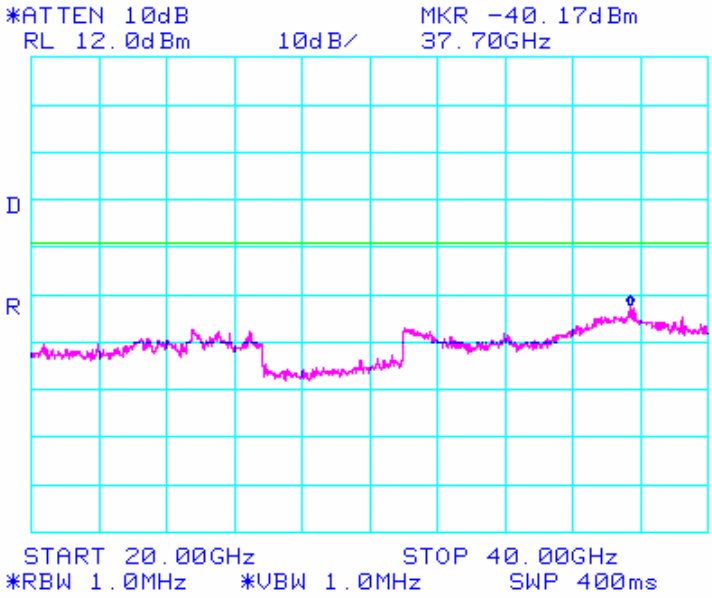
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.27 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

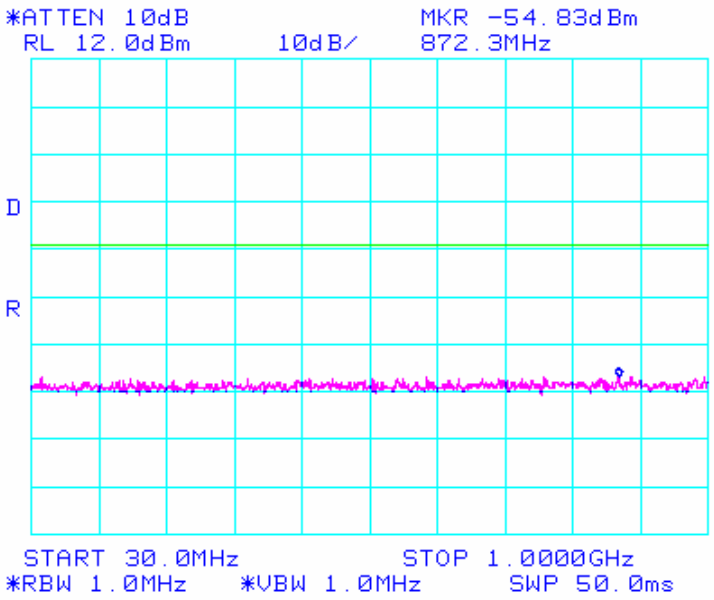
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.27 GHz	B	JC



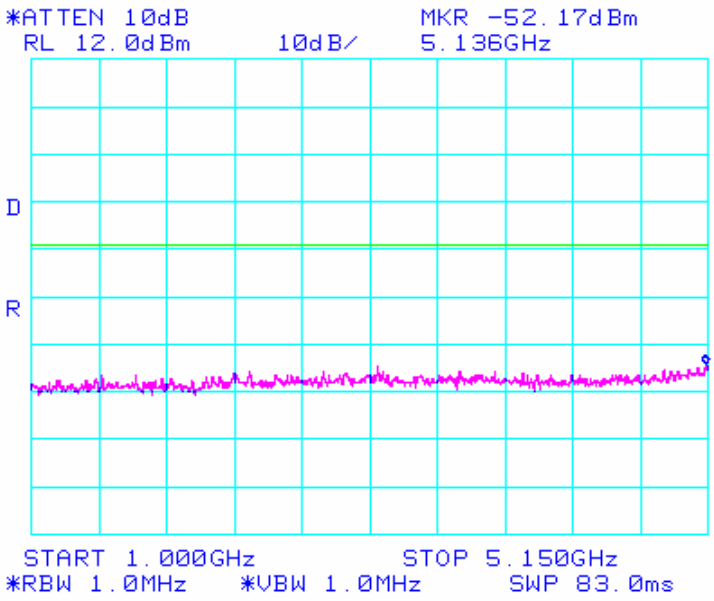
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.31 GHz	B	JC



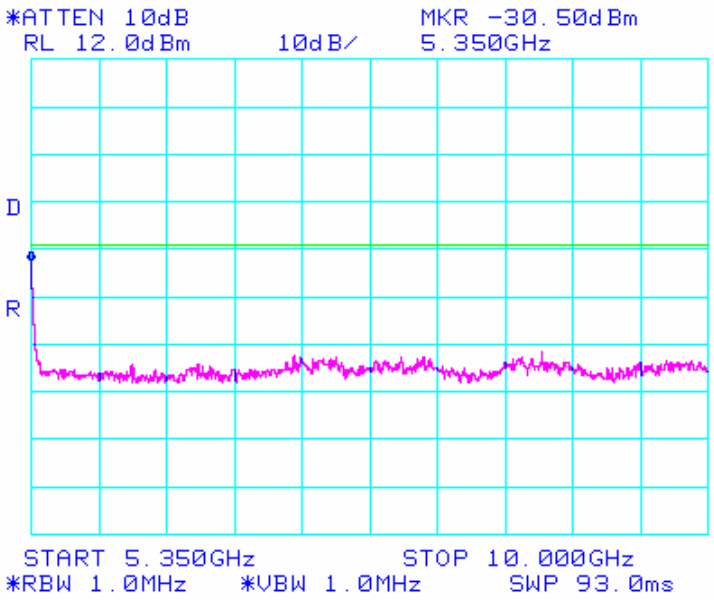
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.31 GHz	B	JC



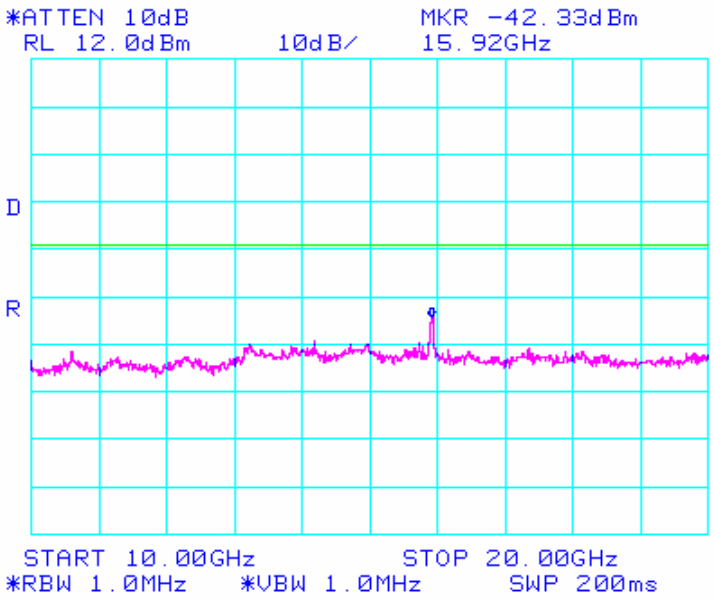
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.31 GHz	B	JC



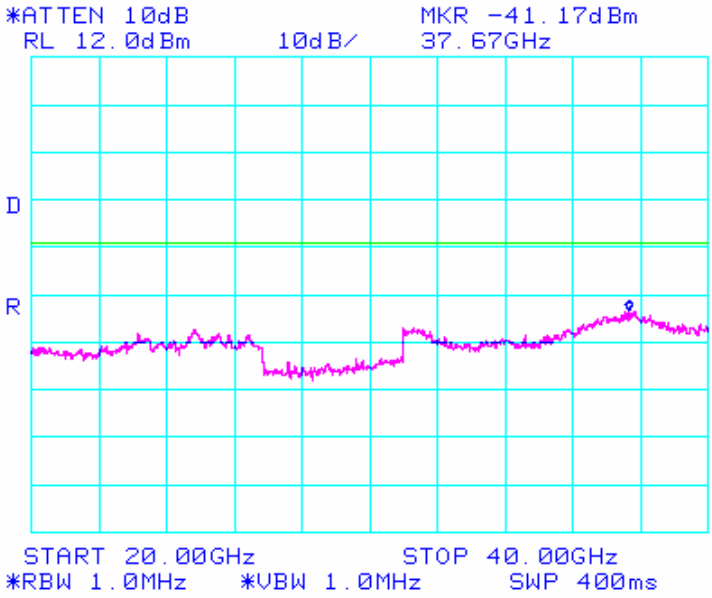
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.31 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

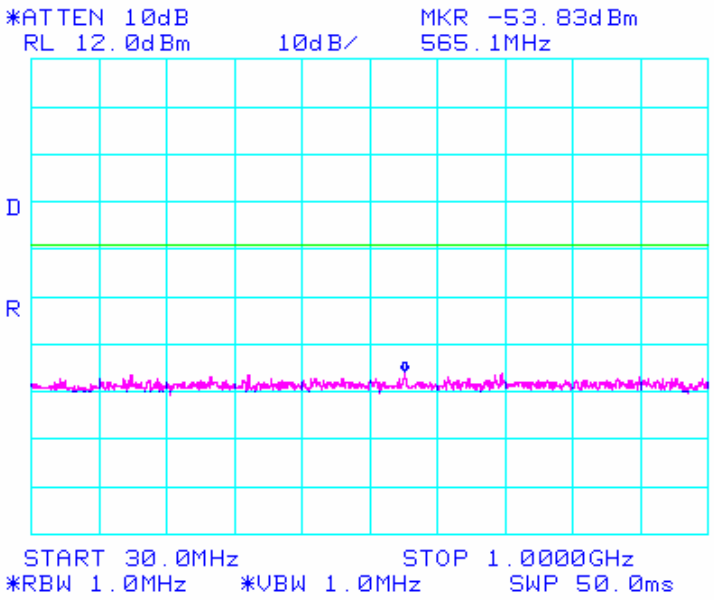
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.31 GHz	B	JC



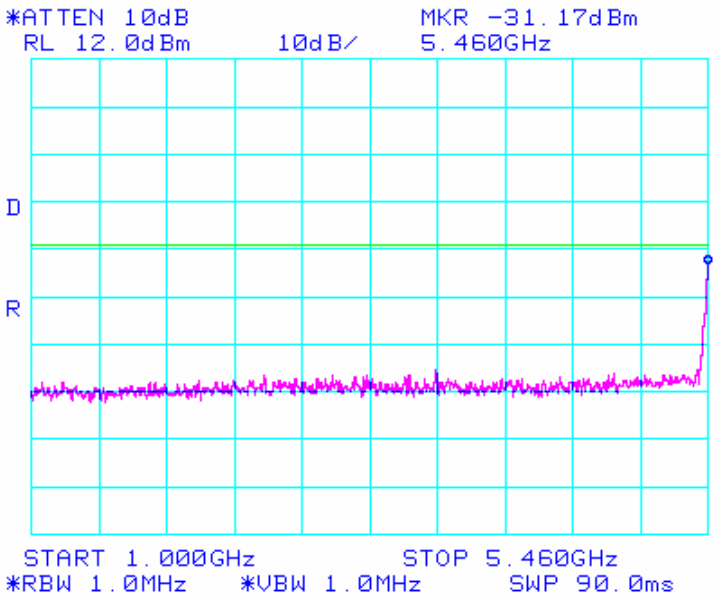
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.51 GHz	B	JC



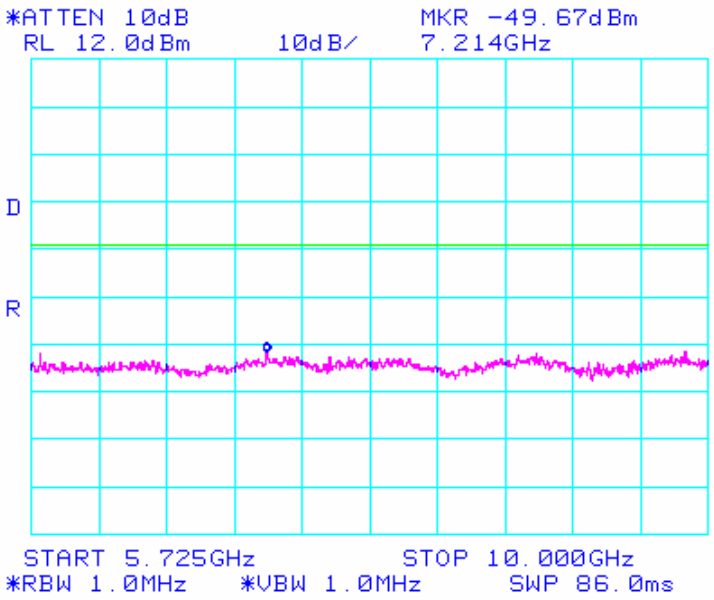
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.51 GHz	B	JC



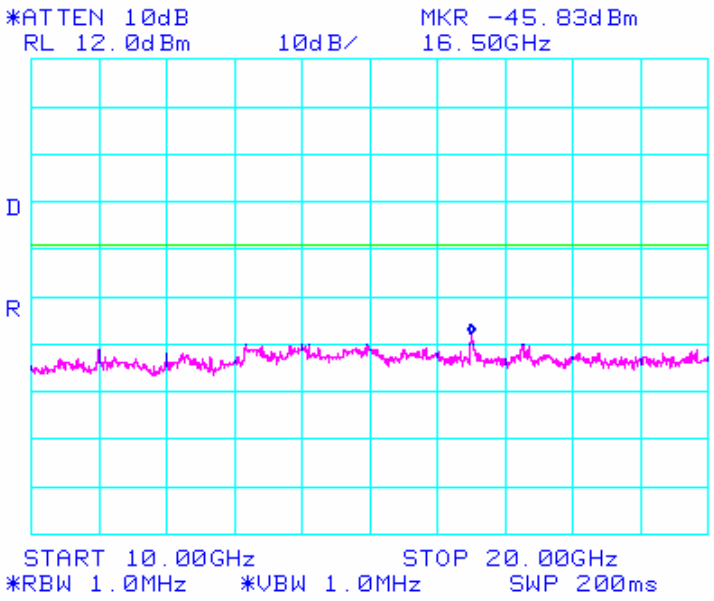
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.51 GHz	B	JC



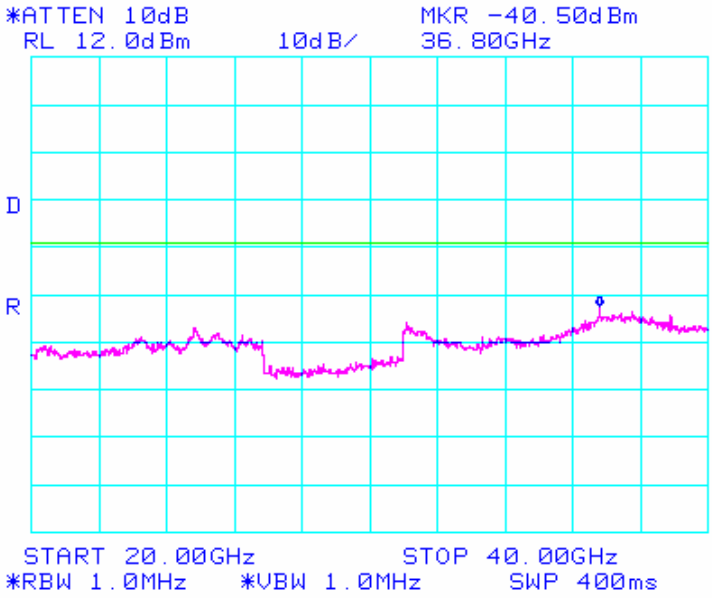
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.51 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

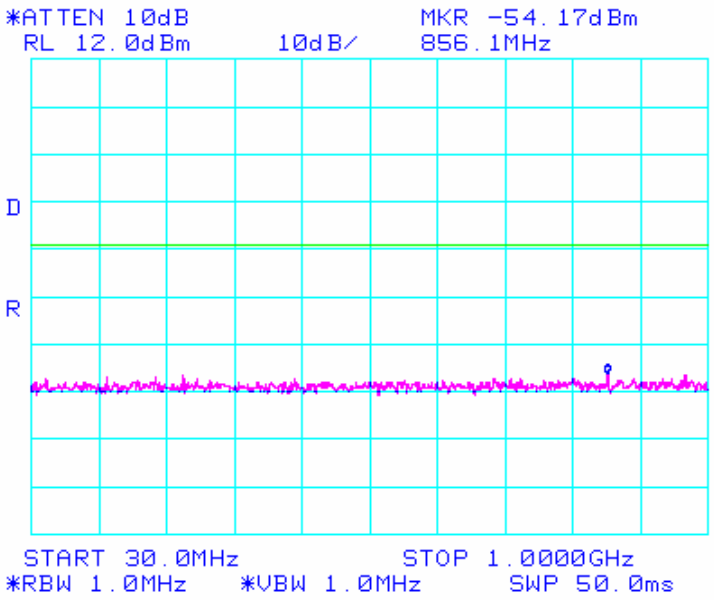
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.51 GHz	B	JC



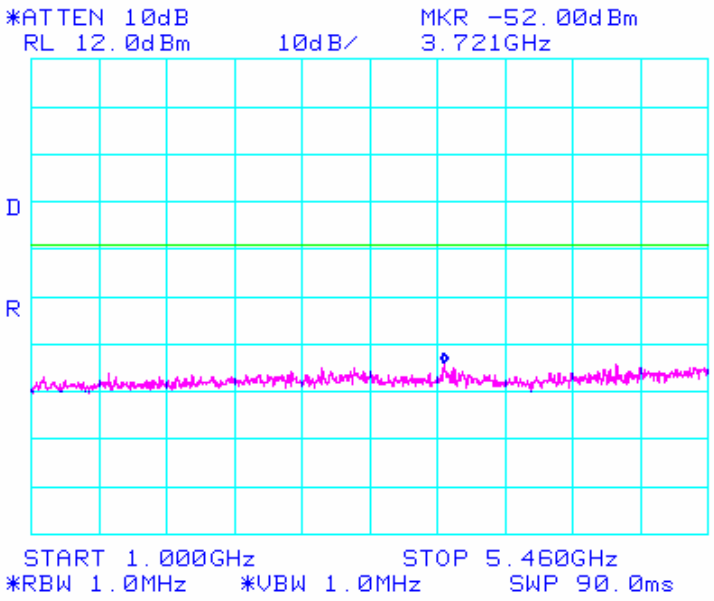
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.59 GHz	B	JC



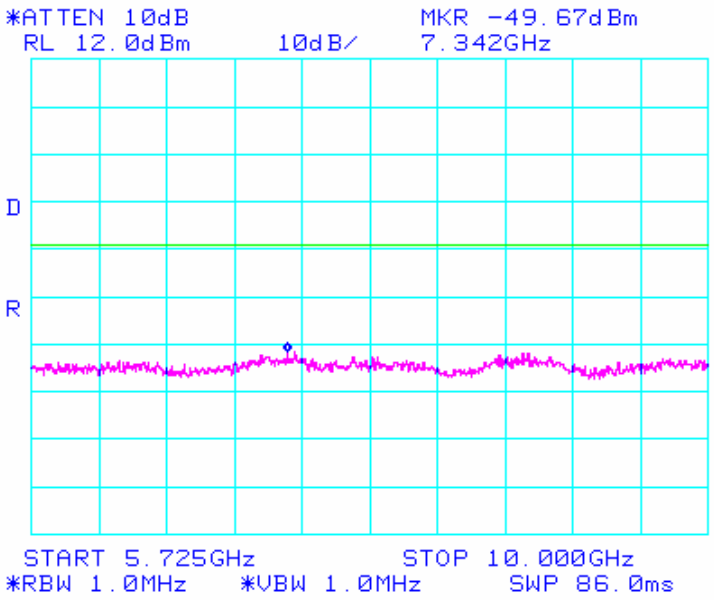
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.59 GHz	B	JC



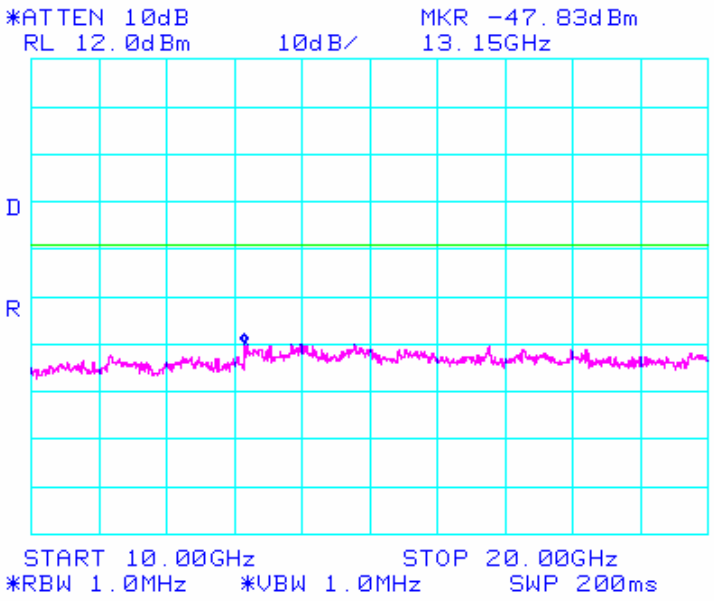
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.59 GHz	B	JC



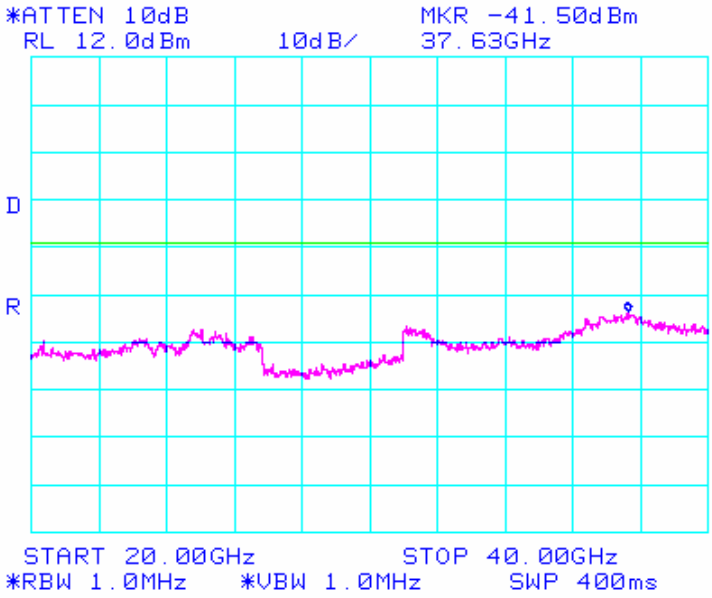
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.59 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

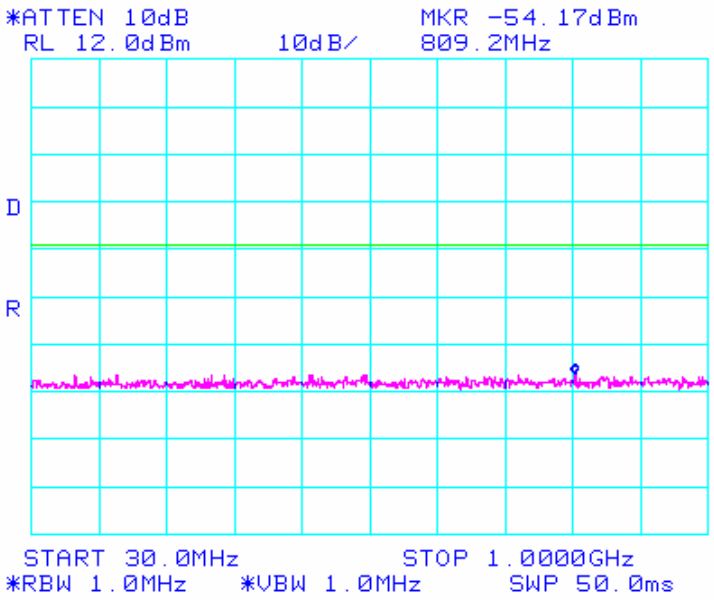
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.59 GHz	B	JC



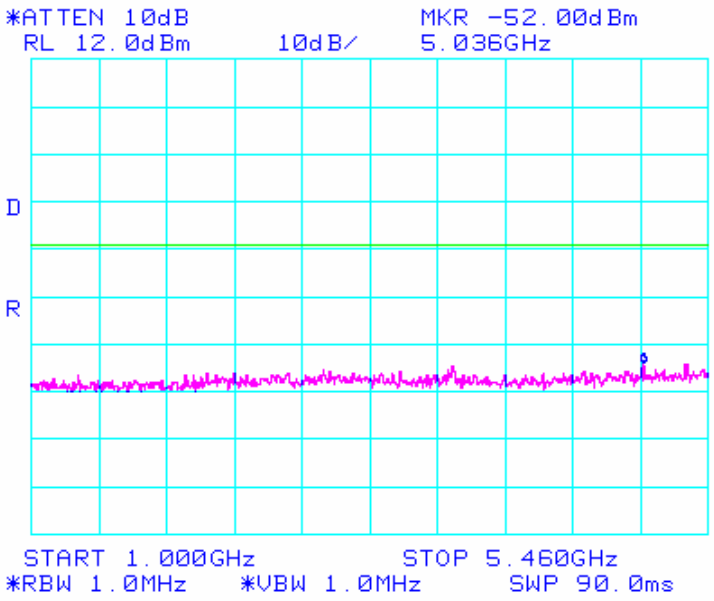
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.67 GHz	B	JC



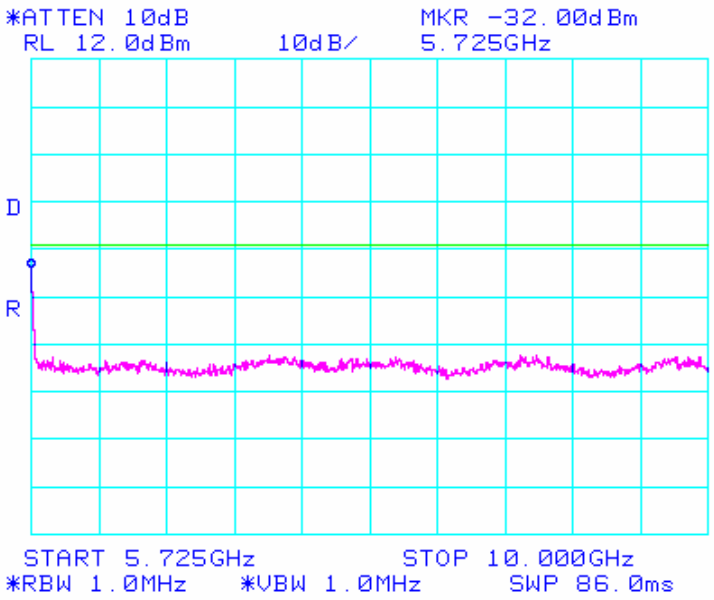
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.67 GHz	B	JC



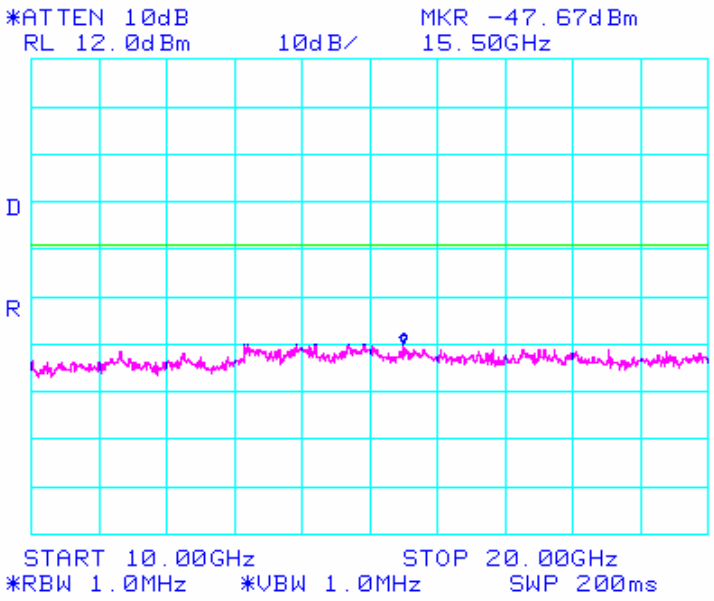
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.67 GHz	B	JC



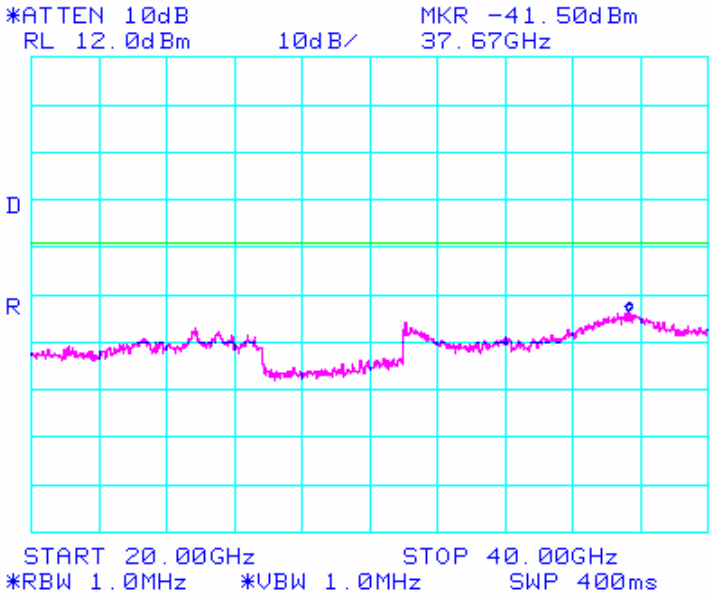
Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.67 GHz	B	JC



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	*Data*	*Chain*	*Test Eng.*
08/06/09	5.67 GHz	B	JC



APPENDIX B

MODIFICATIONS AND RECOMMENDATIONS

1.0	NONE