



**FCC CFR47 PART 15 SUBPART E
INDUSTRY CANADA RSS-210 ISSUE 7
CLASS II PERMISSIVE CHANGE
TEST REPORT**

FOR

**INTEL WI-FI LINK 5100 SERIES INSTALLED INSIDE HP TABLET COMPUTER MODEL:
HSTNN-W47C**

FCC Model: 512AN_MMW

IC Model: 512ANMU

FCC ID: PD9512ANMU

IC: 1000M-9512ANMU

REPORT NUMBER: 07U11778-2A

ISSUE DATE: July 2, 2008

Prepared for

**INTEL CORPORATION
2111 NE 25TH AVENUE
HILLSBORO, OREGON 97124, USA**

Prepared by

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NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	5-16-08	Initial Issue	Sunny Shih
A	7-2-08	Revised host device description and model name	Sunny Shih

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: INTEL CORPORATION
2111 N. E. 25TH AVE
HILLSBORO, OR. 97124, USA

EUT DESCRIPTION: INTEL WI-FI LINK 5100 SERIES INSTALLED INSIDE HP TABLET
COMPUTER MODEL: HSTNN-W47C

FCC MODEL: 512AN_MMW

IC MODEL: 512ANMU

SERIAL NUMBER: MAC 0016EA01D95A

DATE TESTED: May 01 to 15, 2008

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Pass
RSS-210 Issue 7 Annex 9 and RSS-GEN Issue 2	Pass

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All expressions of Pass/Fail in this report are opinions expressed by CCS based on interpretations of the test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:



HSIN FU SHIH
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

Tested By:



VIEN TRAN
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, and FCC MO&O 06-96, RSS-GEN Issue 2, and RSS-210 Issue 7.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an INTEL WI-FI LINK 5100 SERIES INSTALLED INSIDE HP TABLET COMPUTER MODEL: HSTNN-W47C

The radio module is manufactured by Intel and model number is 512AN-MMW/512ANMU.

5.2. DESCRIPTION OF CLASS II CHANGE

The major changes filed under this application are:

Adding HP Tablet computer, model HSTNN-W47C.

Only the Radiated Emission and AC mains line conduction tests are performed.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The following antennas were added:

<u>Antenna Supplier</u>	<u>Type</u>	<u>Model number</u>
Wistron NeWeb Corp (WNC)	PIFA	Main Antenna: 81.EGG15.003 Aux Antenna: 81.EGG15.004

5.4. SOFTWARE AND FIRMWARE

The test utility software used during testing was CRTU version 5.0.51.000

The EUT driver installed during testing was Intel version 12.0.0.54

5.5. WORST-CASE CONFIGURATION AND MODE

Mobile (Normal Notebook) and Portable (Tablet PC) configurations have been investigated. The worst case is to evaluate at Mobile configuration.

The worst-case data rate for each mode is determined to be as follows, based on preliminary tests of the chipset utilized in this radio.

All final tests in the 802.11a mode were made at 6 Mb/s.

All final tests in the 802.11n HT20 mode were made at HT0.

All final tests in the 802.11n HT40 (Wide) mode were made at HT0.

For radiated emissions below 1 GHz the worst-case configuration is determined to be the mode and channel with the highest output power.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	HP	Compaq 2730P	2CE8080PBC	DoC
AC Adapter	HP	PPP0009L	WACLNX2LLVL04J	DoC

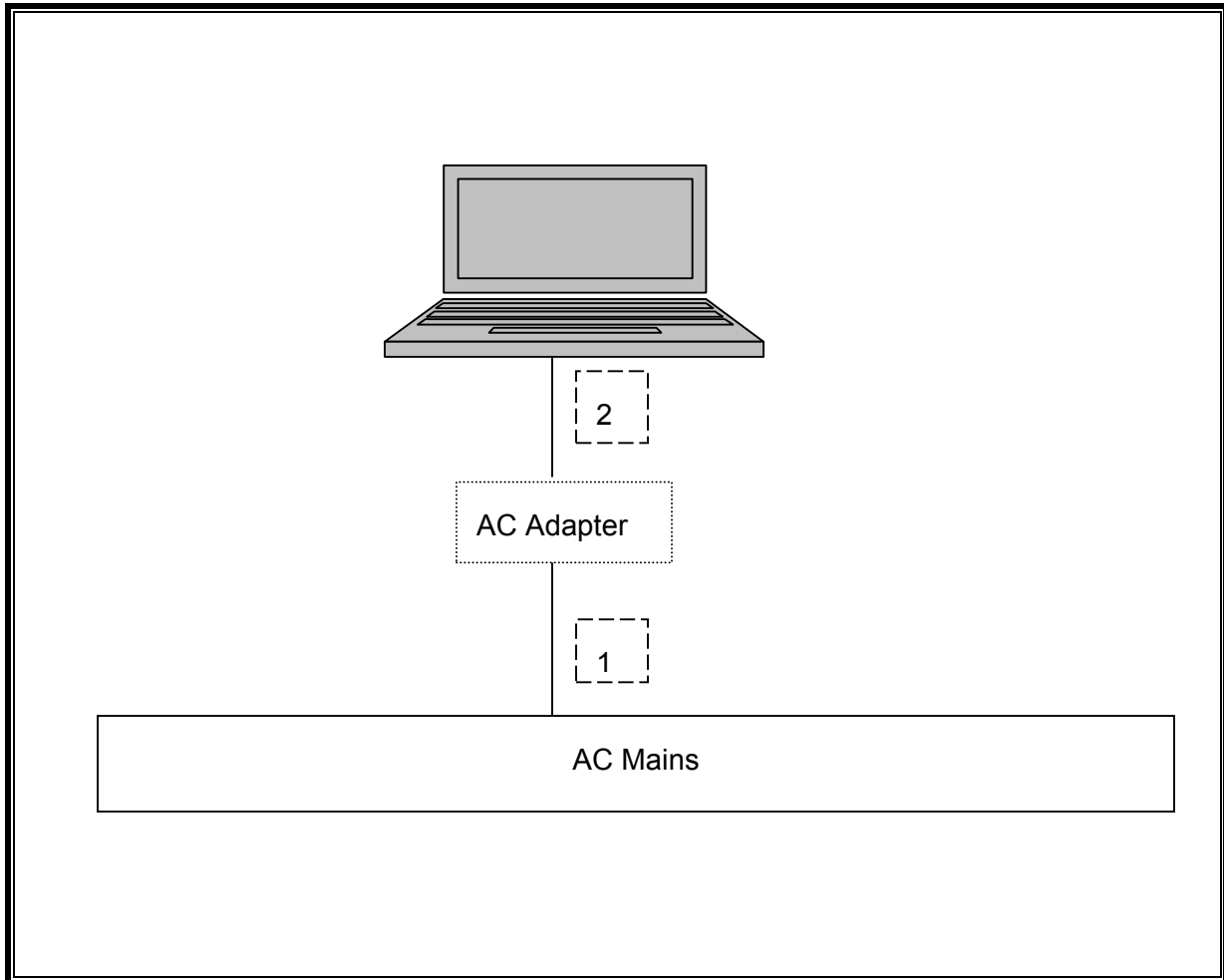
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	AC	Unshielded	1.5 m	N/A
2	DC	1	DC	Unshielded	1.5 m	N/A

TEST SETUP

The EUT is installed in a host laptop computer during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	Asset	Cal Date	Cal Due
EMI Receiver, 2.9 GHz	Agilent / HP	8542E	C00957	02/06/07	06/12/08
RF Filter Section, 2.9 GHz	Agilent / HP	85420E	C00958	02/06/07	06/12/08
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	05/09/08	05/09/09
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	10/25/07	10/25/08
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNC	N02481	10/25/07	10/25/08
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	10/16/07	01/27/09
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	05/02/06	08/07/08
Antenna, Horn, 18 GHz	ETS	3117	C01006	04/15/08	4/15/09
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	08/03/07	8/3/08
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	10/13/07	10/13/08
Peak Power Meter	Agilent / HP	E4416A	C00963	02/14/07	12/02/08
Peak / Average Power Sensor	Agilent	E9327A	C00964	02/14/07	12/02/08
Antenna, Horn 26 ~ 40 GHz	ARA	MWH-2640/B	C01009	04/13/08	04/13/09
7.6 GHz High Pass Filter	Micro Tronics	HPM13350	N/A	N/A	N/A
5.75 - 5.8 Reject Filter	Micro Tronics	BRC13192	N/A	N/A	N/A

7. RADIATED TEST RESULTS

7.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

Frequency Range (MHz)	Field Strength Limit ($\mu\text{V}/\text{m}$) at 3 m	Field Strength Limit (dB $\mu\text{V}/\text{m}$) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

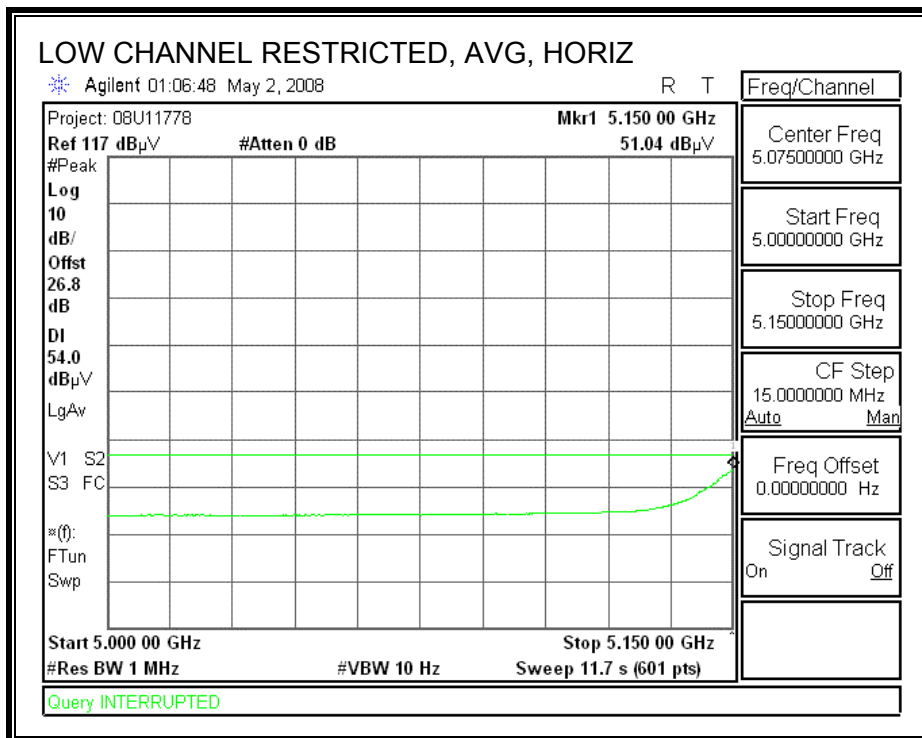
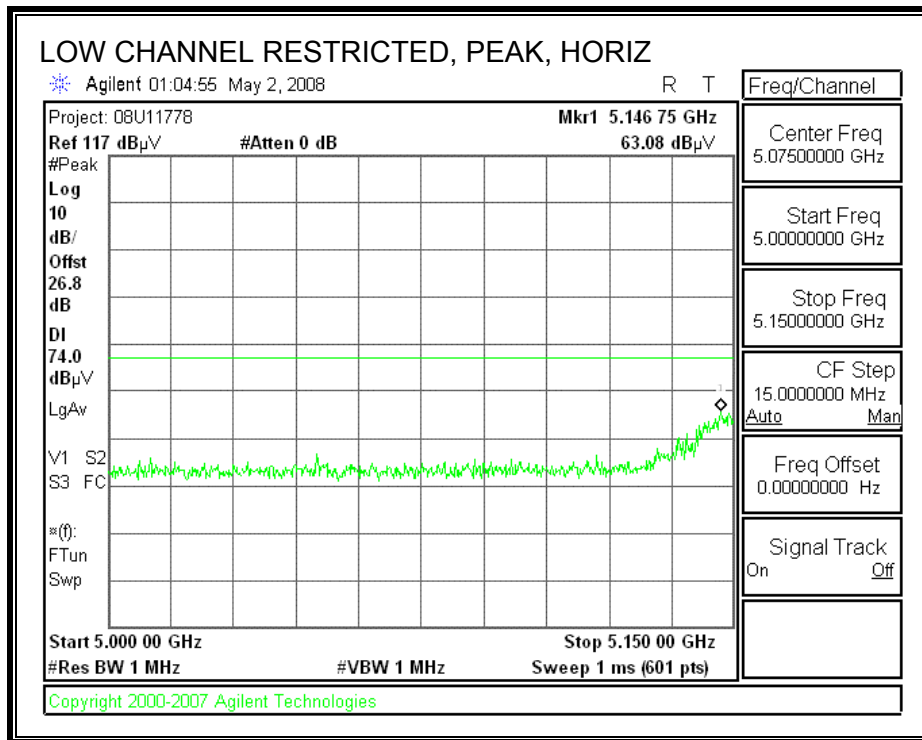
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 5 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

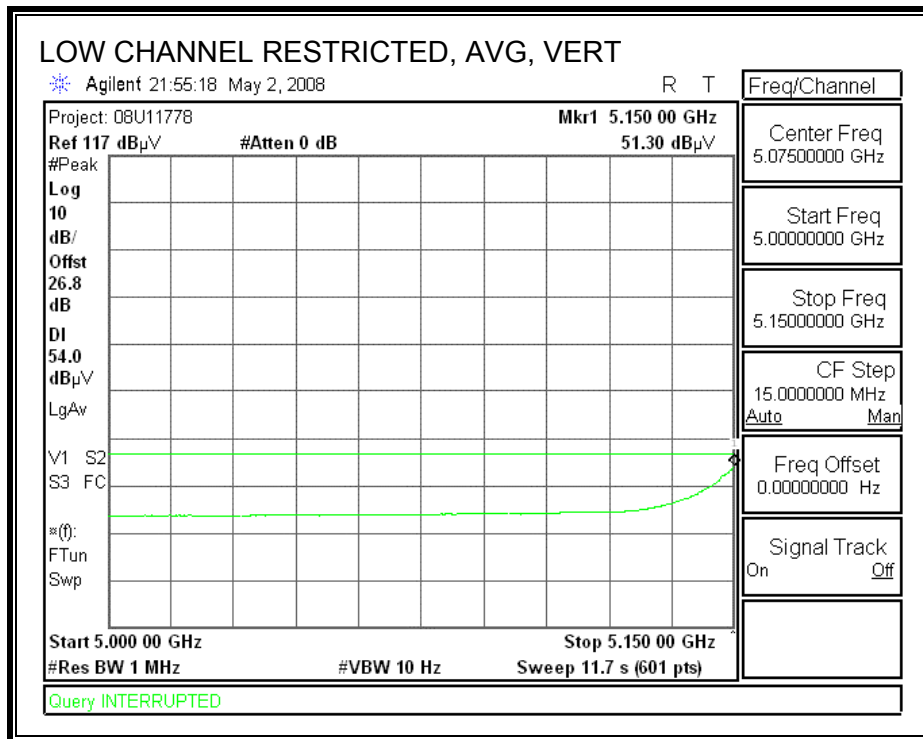
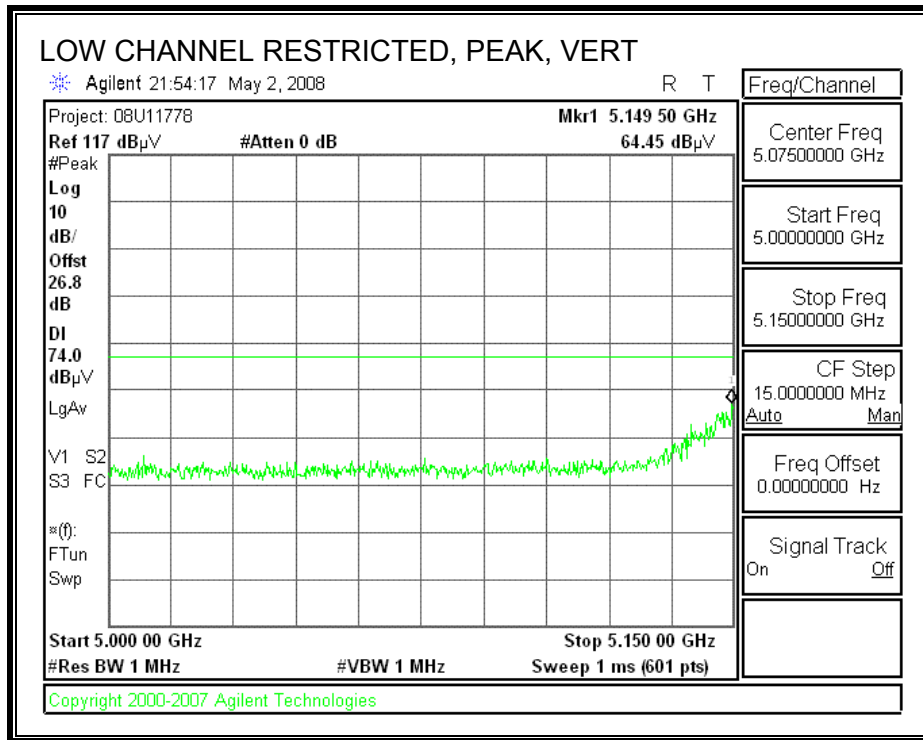
7.2. TRANSMITTER ABOVE 1 GHZ FOR THE BAND 5.15–5.25 GHZ

7.2.1. 802.11a MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



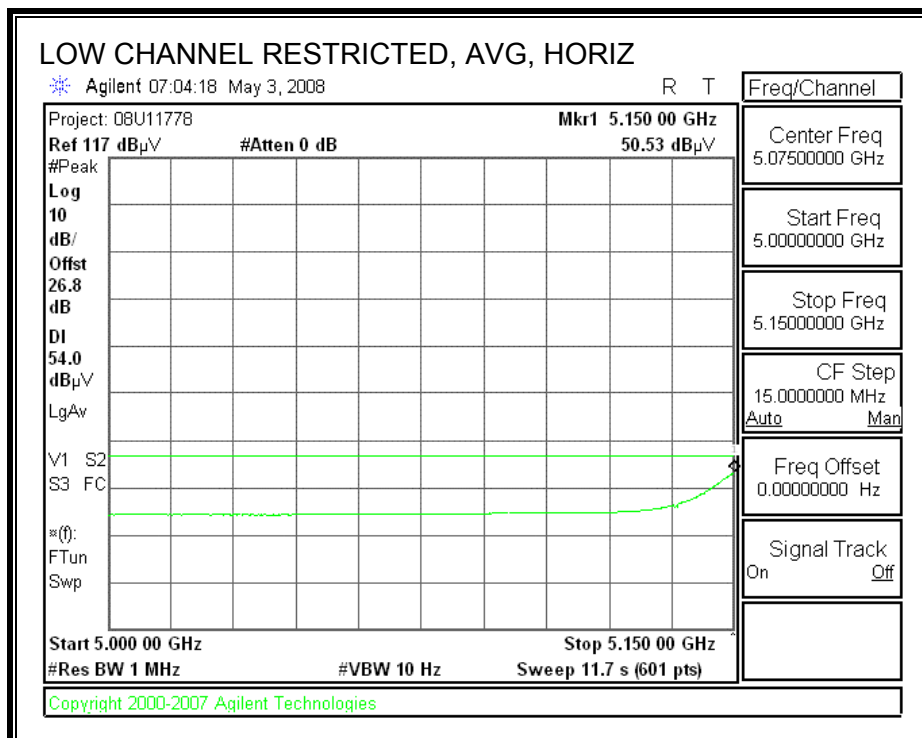
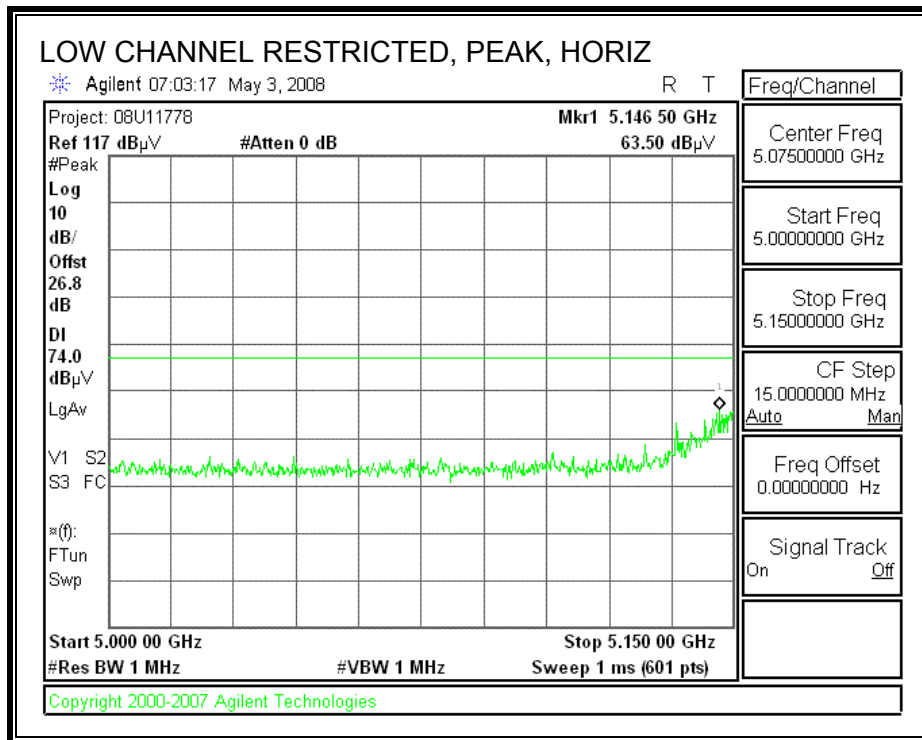
AUTHORIZED BANDEDGE (HIGH CHANNEL)

Please see high channels 5320 MHz (5250-5350 MHz band).

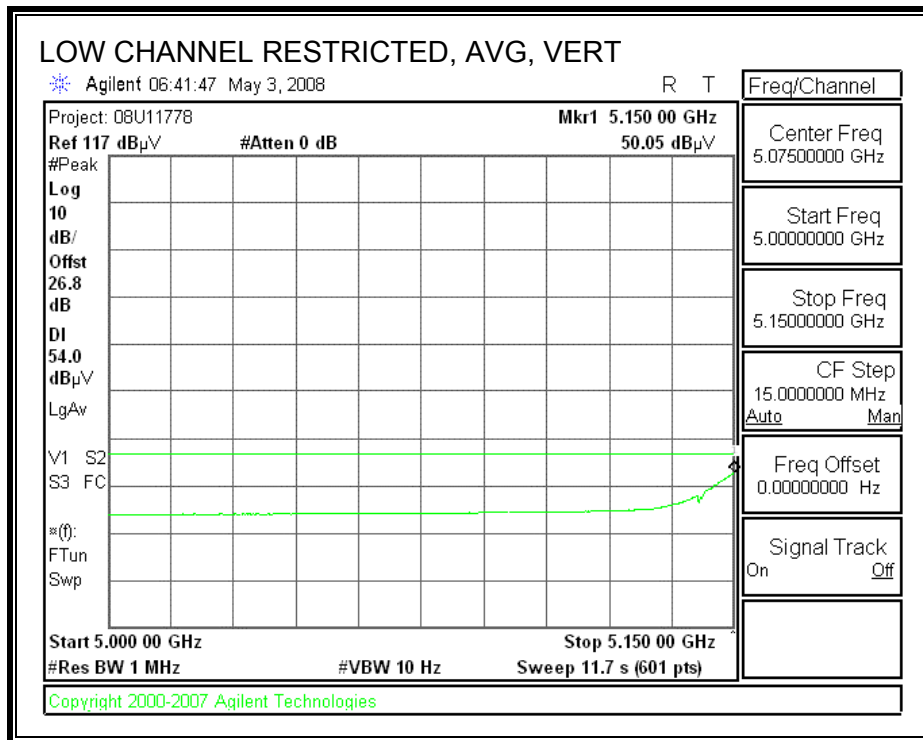
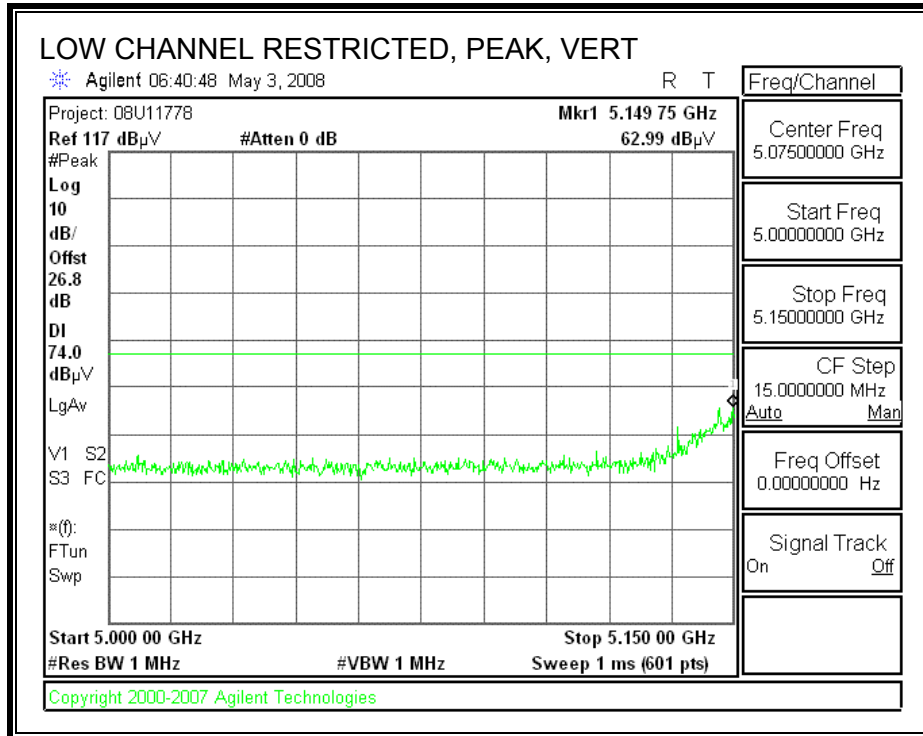
HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement																
Compliance Certification Services, Fremont C Chamber																
Company:		Intel														
Project #:		08U11778														
Date:		5/3/2008														
Test Engineer:		Vien Tran														
Configuration:		EUT insides HP Olifant laptop														
Mode:		Tx 11a Legacy Mode_5150-5250MHz Band														
Test Equipment:																
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit				
T136; M/N: 3117 @3m			T145 Agilent 3008A0050									FCC 15.205				
Hi Frequency Cables																
2 foot cable			3 foot cable			12 foot cable			HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz			
			Thanh 187215003			Ninous 208946002			HPF_7.6GHz				Average Measurements RBW=1MHz ; VBW=10Hz			
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
LOW CH, 5180 MHz																
15.540	3.0	45.0	34.5	38.9	5.2	-32.3	0.0	0.7	57.6	47.1	74	54	-16.4	-6.9	Y	
15.540	3.0	44.4	34.0	38.9	5.2	-32.3	0.0	0.7	57.0	46.6	74	54	-17.0	-7.4	H	
MID CH, 5200 MHz																
15.600	3.0	44.6	34.3	38.9	5.2	-32.3	0.0	0.7	57.2	46.9	74	54	-16.8	-7.1	Y	
15.600	3.0	44.0	33.7	38.9	5.2	-32.3	0.0	0.7	56.6	46.3	74	54	-17.4	-7.7	H	
HI CH, 5240 MHz																
15.720	3.0	44.2	33.9	39.0	5.2	-32.3	0.0	0.7	56.8	46.5	74	54	-17.2	-7.5	Y	
15.720	3.0	43.6	33.3	39.0	5.2	-32.3	0.0	0.7	56.2	45.9	74	54	-17.8	-8.1	H	
No other emissions were detected above system noise floor.																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

7.2.2. 802.11n HT20 MODE
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



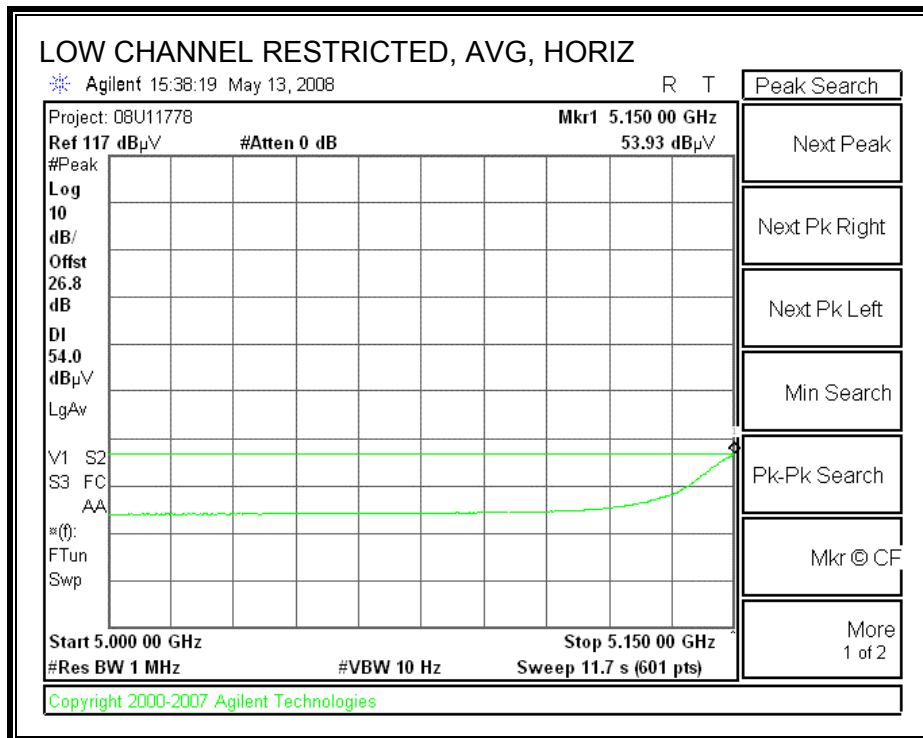
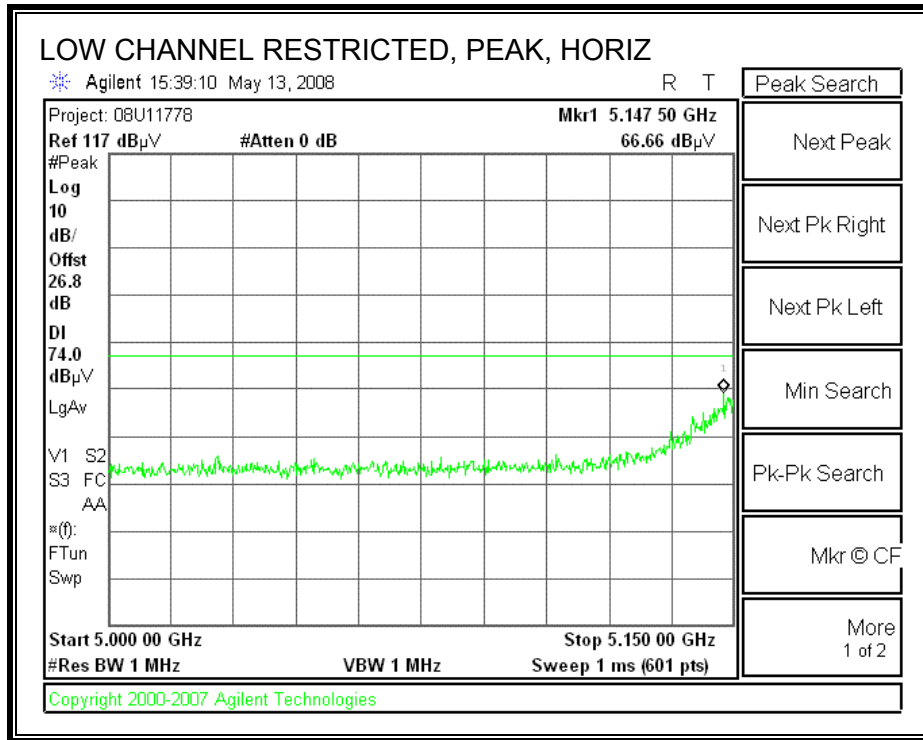
AUTHORIZED BANDEDGE (HIGH CHANNEL)

Please see high channels 5320 MHz (5250-5350 MHz band).

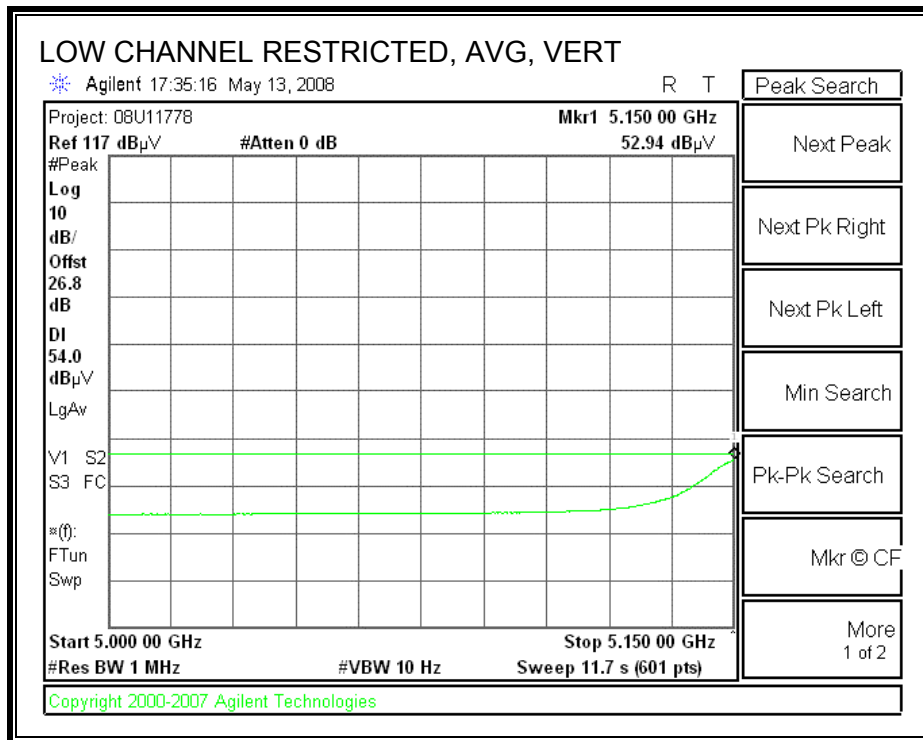
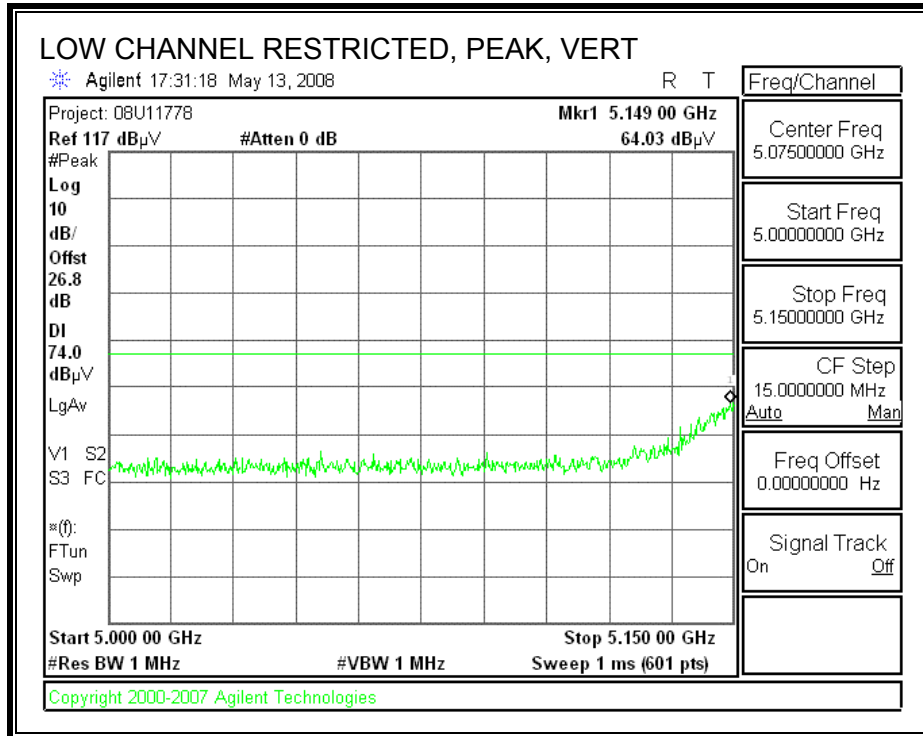
HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement																
Compliance Certification Services, Fremont C Chamber																
Company:		Intel														
Project #:		08U11778														
Date:		5/3/2008														
Test Engineer:		Vien Tran														
Configuration:		EUT insides HP Olifant laptop														
Mode:		Tx 11n HT20 Mode_5150-5250MHz Band														
Test Equipment:																
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit				
T136; M/N: 3117 @3m			T145 Agilent 3008A0050									FCC 15.205				
Hi Frequency Cables																
2 foot cable			3 foot cable			12 foot cable			HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz			
			Thanh 187215003			Ninous 208946002			HPF_7.6GHz							
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
LOW CH, 5180 MHz																
15.540	3.0	44.8	33.6	38.9	5.2	-32.3	0.0	0.7	57.4	46.2	74	54	-16.6	-7.8	Y	
15.540	3.0	43.6	33.0	38.9	5.2	-32.3	0.0	0.7	56.2	45.6	74	54	-17.8	-8.4	H	
MID CH, 5200 MHz																
15.600	3.0	44.6	33.1	38.9	5.2	-32.3	0.0	0.7	57.2	45.7	74	54	-16.8	-8.3	Y	
15.600	3.0	44.0	32.8	38.9	5.2	-32.3	0.0	0.7	56.6	45.4	74	54	-17.4	-8.6	H	
HI CH, 5240 MHz																
15.720	3.0	44.2	33.0	39.0	5.2	-32.3	0.0	0.7	56.8	45.7	74	54	-17.2	-8.3	Y	
15.720	3.0	43.0	32.6	39.0	5.2	-32.3	0.0	0.7	55.7	45.3	74	54	-18.3	-8.7	H	
No other emissions were detected above system noise floor.																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

7.2.3. 802.11n HT40 MODE
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL)

Please see high channels 5310 MHz (5250-5350 MHz band).

HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
 Compliance Certification Services, Fremont C Chamber

Company: Intel
 Project #: 08U11778
 Date: 5/3/2008
 Test Engineer: Vien Tran
 Configuration: EUT insides HP Olifant laptop
 Mode: Tx 11n HT40 Mode_5150-5250MHz Band

Test Equipment:

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T136; M/N: 3117 @3m	T145 Agilent 3008A0050			FCC 15.205

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz
	Thanh 187215003	Ninous 208946002	HPF_7.6GHz		

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fldr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
LOW CH, 5190 MHz															
15.570	3.0	44.5	33.7	38.9	5.2	-32.3	0.0	0.7	57.1	46.3	74	54	-16.9	-7.7	Y
15.570	3.0	43.6	33.2	38.9	5.2	-32.3	0.0	0.7	56.2	45.8	74	54	-17.8	-8.2	H
MID CH, 5230 MHz															
15.690	3.0	45.4	34.6	39.0	5.2	-32.3	0.0	0.7	58.0	47.2	74	54	-16.0	-6.8	Y
15.690	3.0	44.5	34.1	39.0	5.2	-32.3	0.0	0.7	57.1	46.7	74	54	-16.9	-7.3	H
No other emissions were detected above system noise floor.															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

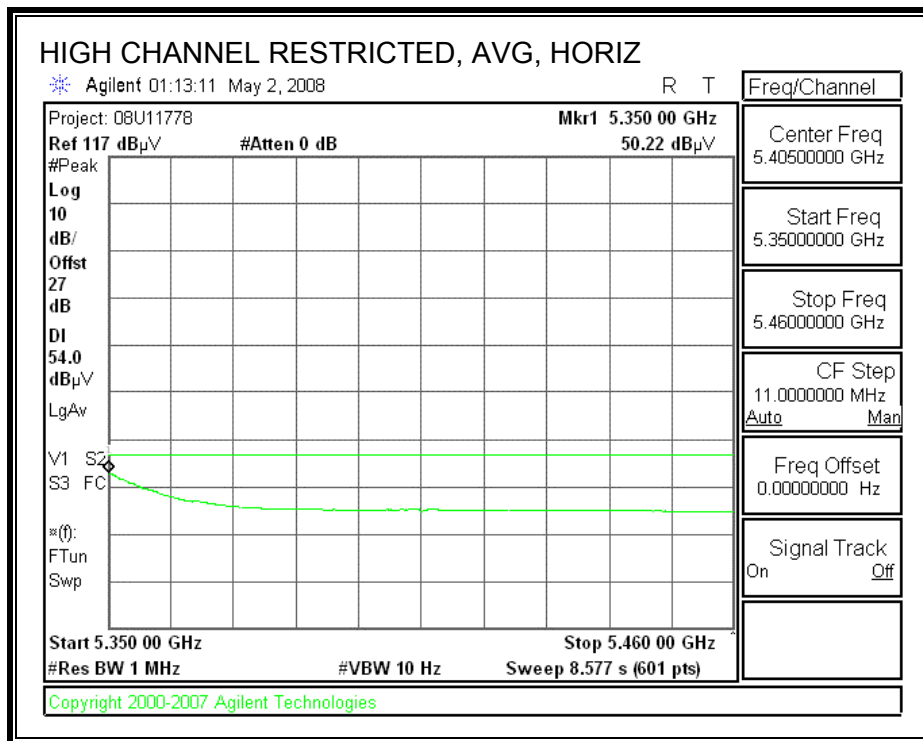
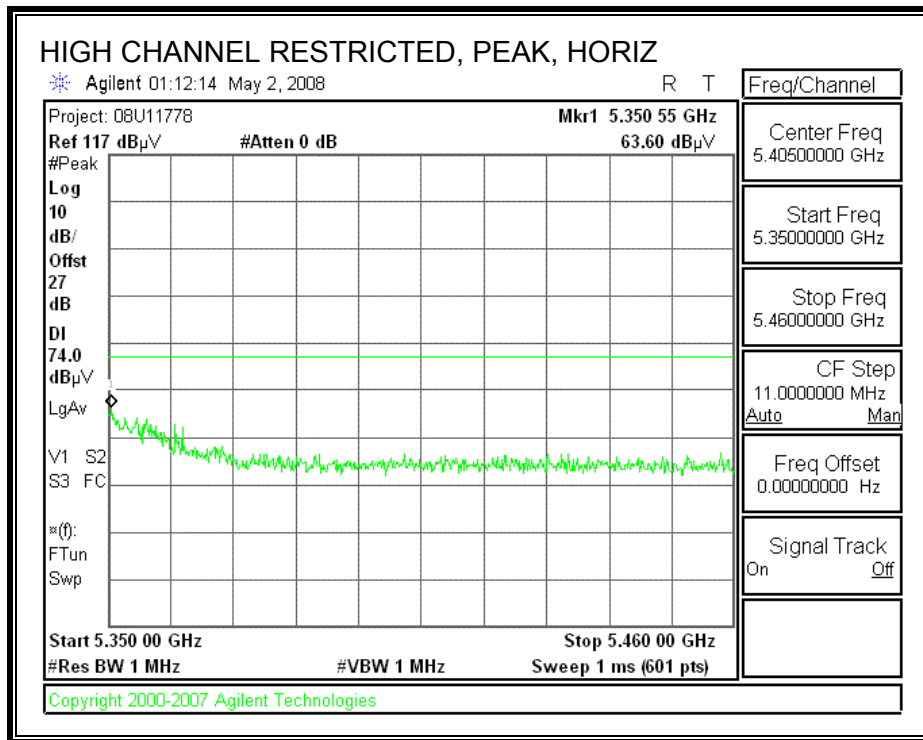
7.3. TRANSMITTER ABOVE 1 GHZ FOR THE BAND 5.25–5.35 GHZ

7.3.1. 802.11a MODE

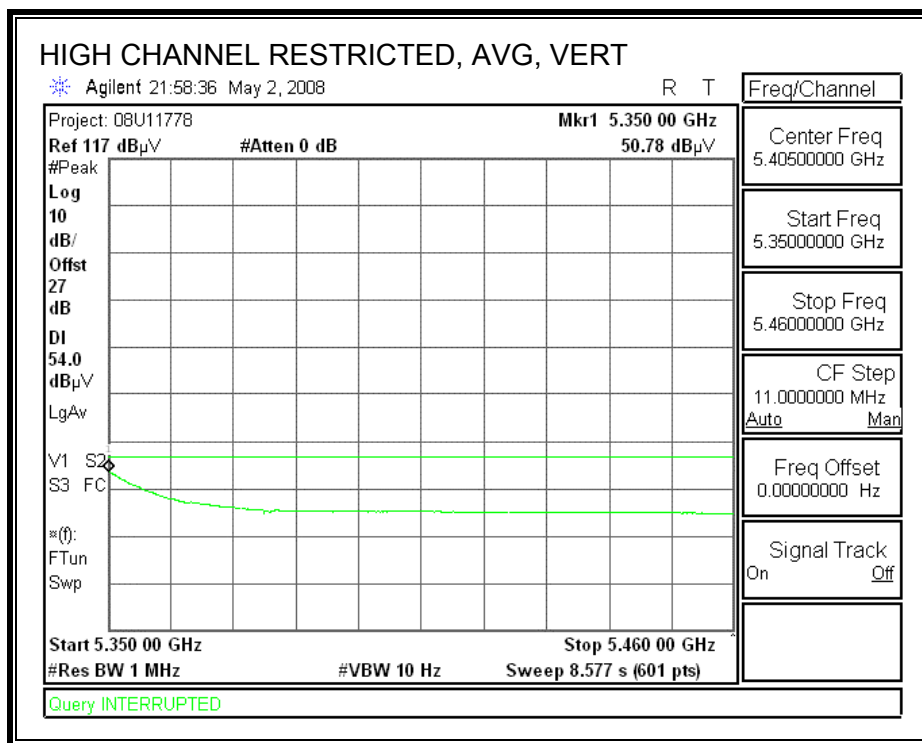
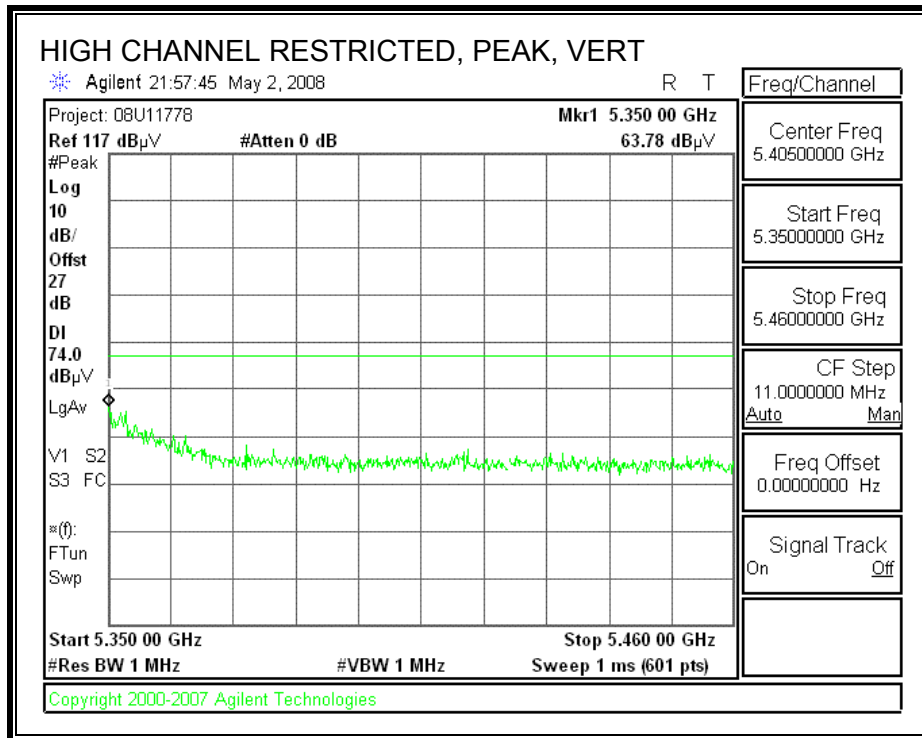
AUTHORIZED BANDEDGE (LOW CHANNEL)

Please see low channels 5180 MHz (5150-5250 MHz band).

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
 Compliance Certification Services, Fremont C Chamber

Company: Intel
 Project #: 08U11778
 Date: 5/5/2008
 Test Engineer: Vien Tran
 Configuration: EUT insides HP Olifant laptop
 Mode: Tx 11a Legacy Mode_5250-5350MHz Band

Test Equipment:

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T136; M/N: 3117 @3m	T145 Agilent 3008A005			FCC 15.205

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	
	Thanh 187215003	Ninous 208946002	HPF_7.6GHz		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fitr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
LOW CH, 5260 MHz															
15.780	3.0	45.3	32.8	39.0	5.2	-32.2	0.0	0.7	58.0	45.5	74	54	-16.0	-8.5	V
15.780	3.0	44.3	31.9	39.0	5.2	-32.2	0.0	0.7	57.0	44.6	74	54	-17.0	-9.4	H
MID CH, 5280 MHz															
15.840	3.0	44.0	32.7	39.0	5.3	-32.2	0.0	0.7	56.8	45.5	74	54	-17.2	-8.5	V
15.840	3.0	43.2	32.2	39.0	5.3	-32.2	0.0	0.7	56.0	45.0	74	54	-18.0	-9.0	H
HI CH, 5320 MHz															
10.600	3.0	54.7	42.4	37.0	3.9	-34.3	0.0	0.8	62.1	49.8	74	54	-11.9	-4.2	V
15.900	3.0	43.6	32.0	39.0	5.3	-32.2	0.0	0.7	56.4	44.8	74	54	-17.6	-9.2	V
10.640	3.0	48.4	36.9	37.0	3.9	-34.2	0.0	0.8	55.8	44.3	74	54	-18.2	-9.7	H
15.960	3.0	44.0	32.3	39.1	5.3	-32.2	0.0	0.7	56.9	45.2	74	54	-17.1	-8.8	H
No other emissions were detected above system noise floor.															

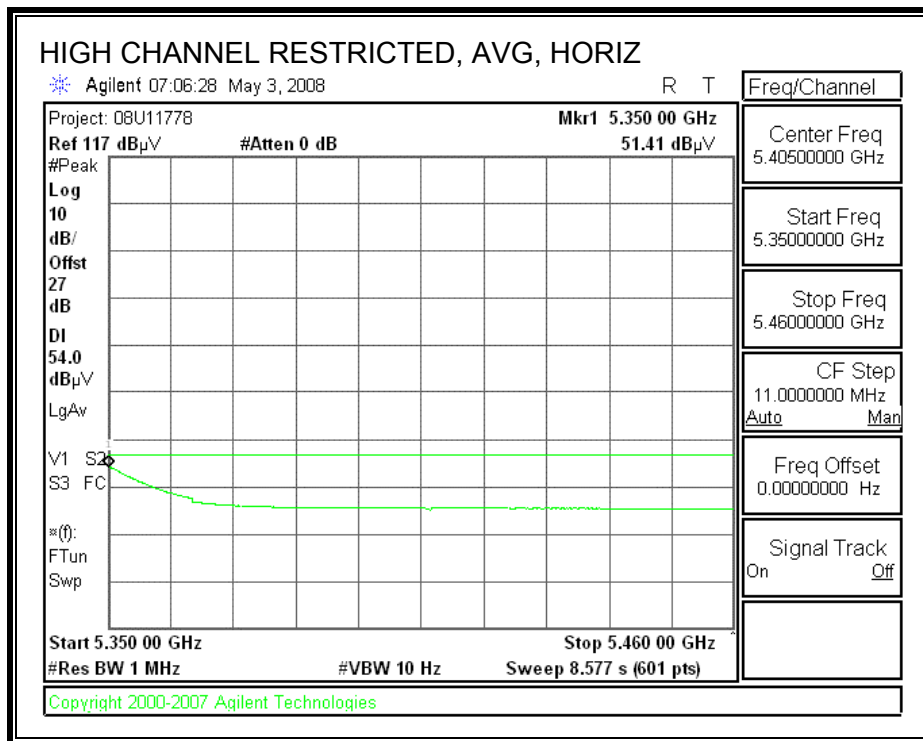
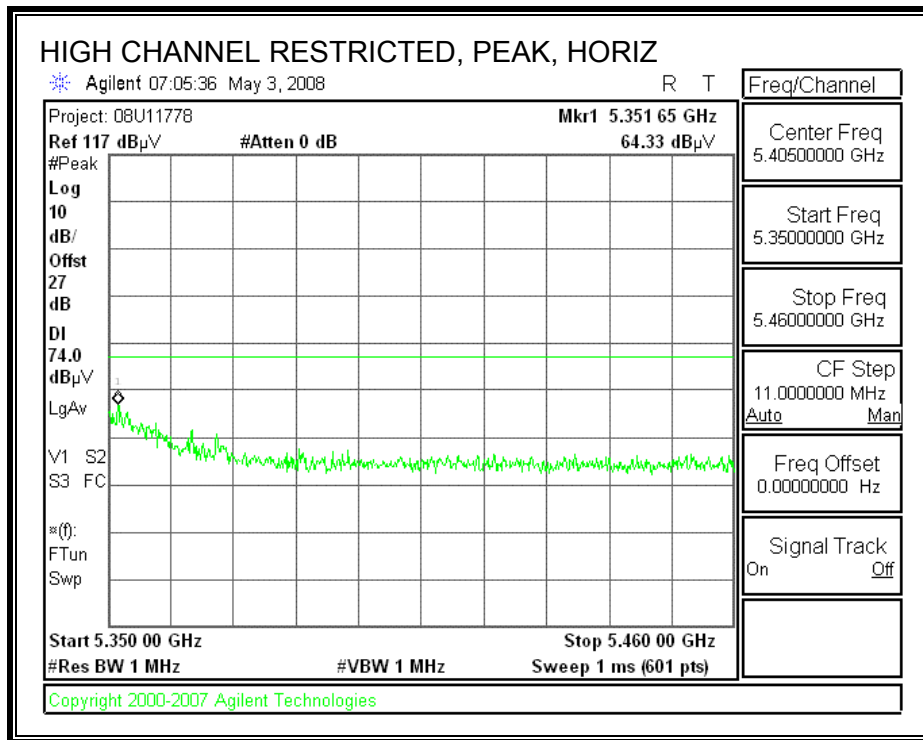
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

7.3.2. 802.11n HT20 MODE

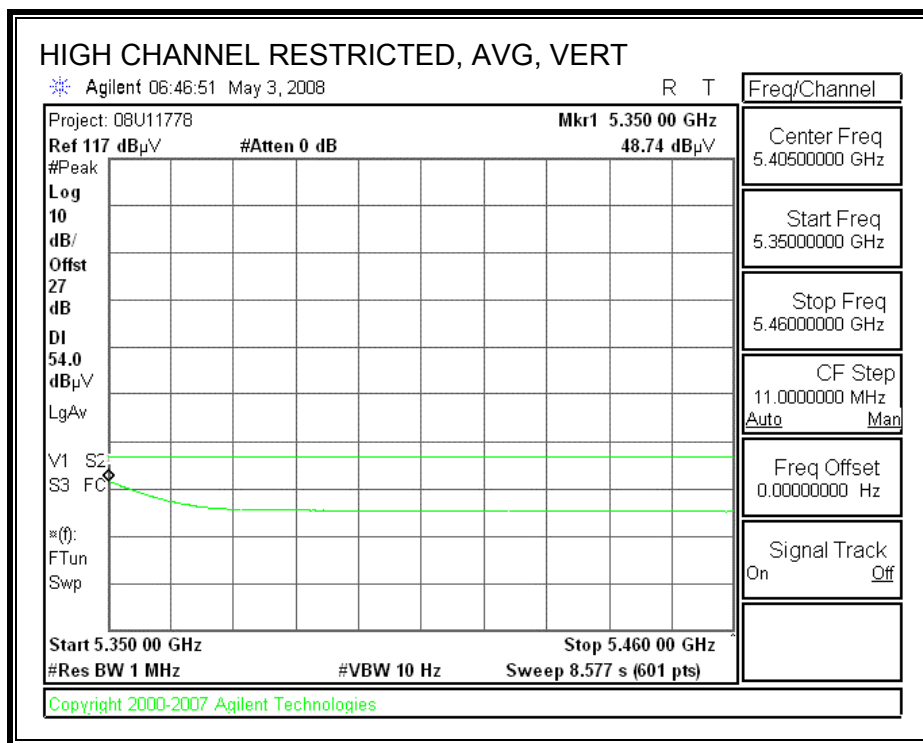
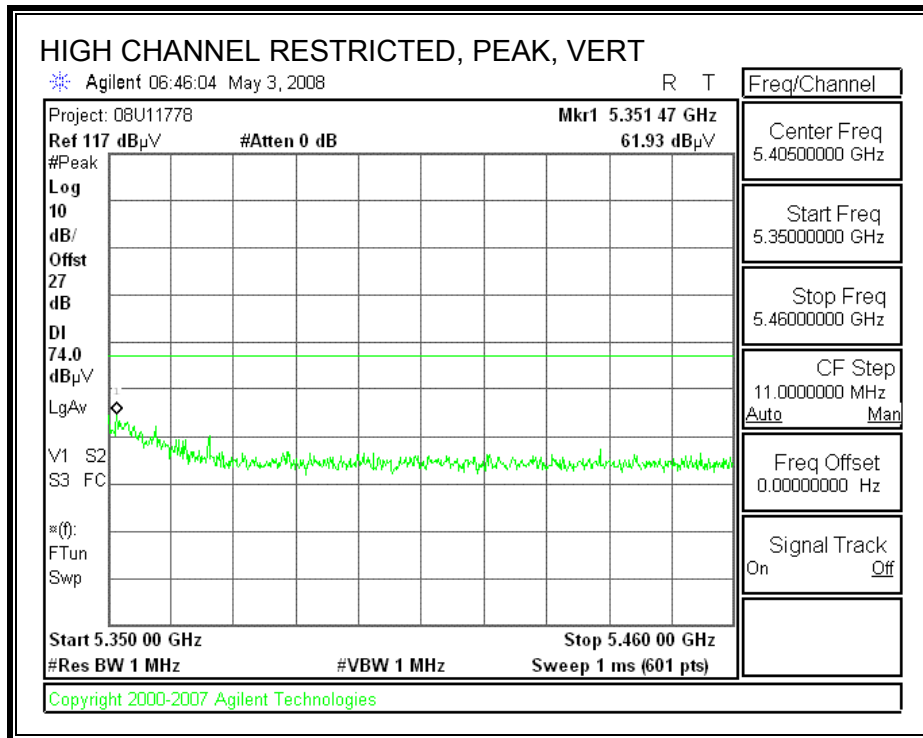
AUTHORIZED BANDEDGE (LOW CHANNEL)

Please see low channels 5180 MHz (5150-5250 MHz band).

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

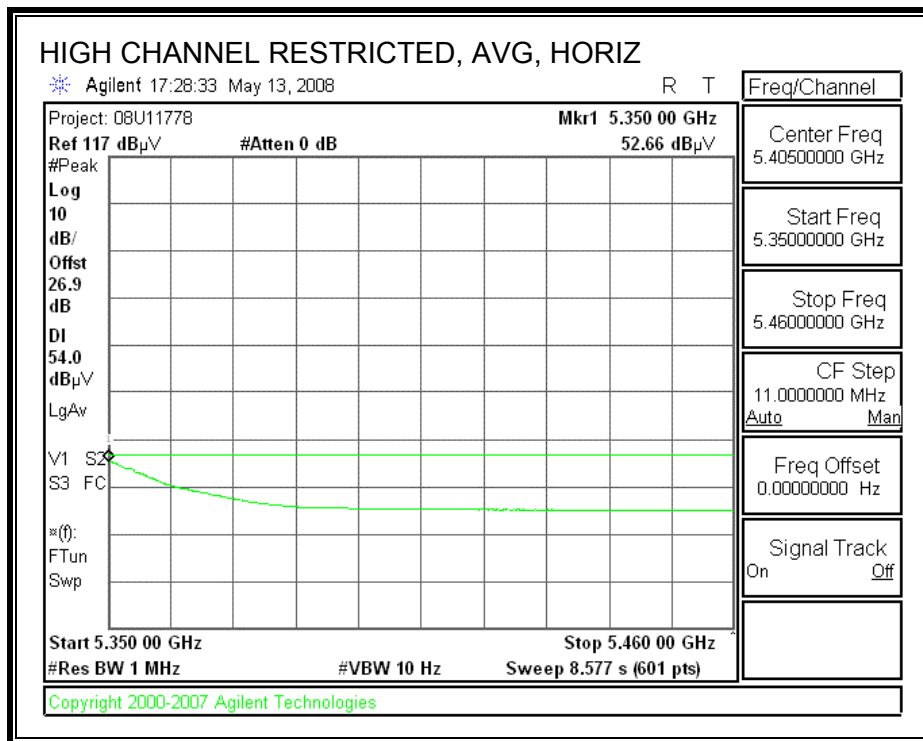
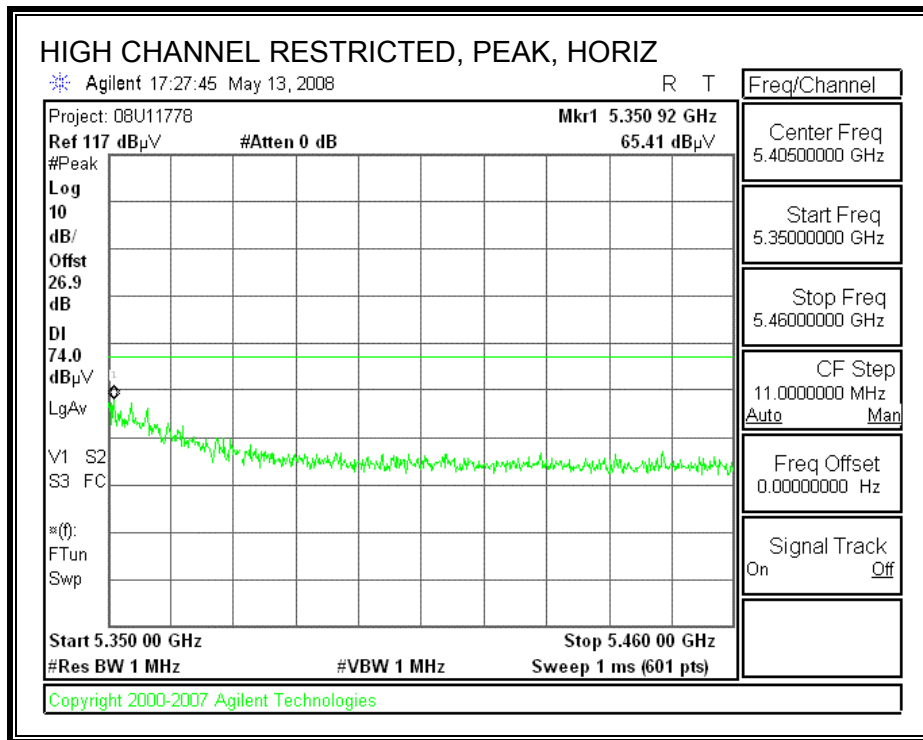
High Frequency Measurement																			
Compliance Certification Services, Fremont C Chamber																			
Company:		Intel																	
Project #:		08U11778																	
Date:		5/5/2008																	
Test Engineer:		Vien Tran																	
Configuration:		EUT insides HP Olifant laptop																	
Mode:		Tx 11n HT20 Mode_5250-5350MHz Band																	
Test Equipment:																			
Horn 1-18GHz				Pre-amplifier 1-26GHz				Pre-amplifier 26-40GHz				Horn > 18GHz				Limit			
T136; M/N: 3117 @3m				T145 Agilent 3008A0050												FCC 15.205			
Hi Frequency Cables																			
2 foot cable				3 foot cable				12 foot cable				HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz			
				Thanh 187215003				Ninous 208946002				HPF_7.6GHz							
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)				
LOW CH, 5260 MHz																			
15.780	3.0	44.5	32.0	39.0	5.2	-32.2	0.0	0.7	57.2	44.7	74	54	-16.8	-9.3	Y				
15.780	3.0	43.5	31.1	39.0	5.2	-32.2	0.0	0.7	56.2	43.8	74	54	-17.8	-10.2	H				
MID CH, 5280 MHz																			
15.840	3.0	43.2	31.9	39.0	5.3	-32.2	0.0	0.7	56.0	44.7	74	54	-18.0	-9.3	Y				
15.840	3.0	42.4	31.4	39.0	5.3	-32.2	0.0	0.7	55.2	44.2	74	54	-18.8	-9.8	H				
HI CH, 5320 MHz																			
10.600	3.0	53.9	41.6	37.0	3.9	-34.3	0.0	0.8	61.3	49.0	74	54	-12.7	-5.0	Y				
15.900	3.0	42.8	31.2	39.0	5.3	-32.2	0.0	0.7	55.6	44.0	74	54	-18.4	-10.0	Y				
10.640	3.0	47.6	36.1	37.0	3.9	-34.2	0.0	0.8	55.0	43.5	74	54	-19.0	-10.5	H				
15.960	3.0	43.2	31.5	39.1	5.3	-32.2	0.0	0.7	56.1	44.4	74	54	-17.9	-9.6	H				
No other emissions were detected above system noise floor.																			
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit						
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit						
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit						
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit						
CL	Cable Loss					HPF	High Pass Filter												

7.3.3. 802.11n HT40 MODE

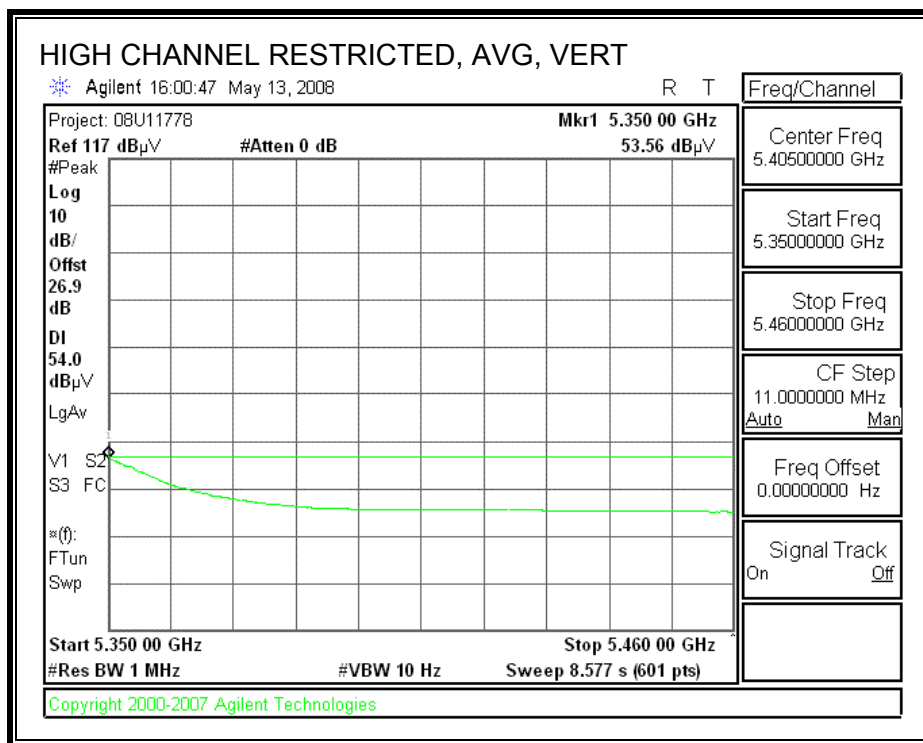
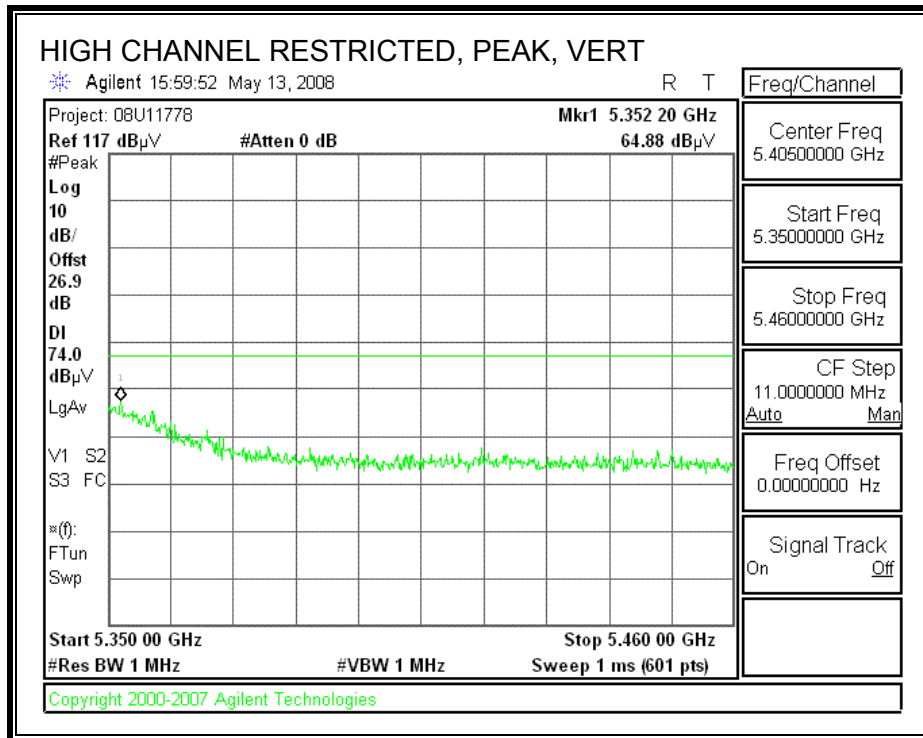
AUTHORIZED BANDEDGE (LOW CHANNEL)

Please see low channels 5190 MHz (5150-5250 MHz band).

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
 Compliance Certification Services, Fremont C Chamber

Company: Intel
 Project #: 08U11778
 Date: 5/5/2008
 Test Engineer: Vien Tran
 Configuration: EUT inside: HP Olifant laptop
 Mode: Tx 11n HT40 Mode_5250-5350MHz Band

Test Equipment:

Horn 1-18GHz T136; M/N: 3117 @3m	Pre-amplifier 1-26GHz T145 Agilent 3008A0050	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit FCC 15.205
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Hi Frequency Cables

2 foot cable	3 foot cable Thanh 187215003	12 foot cable Ninous 208946002	HPF HPF_7.6GHz	Reject Filter	Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz
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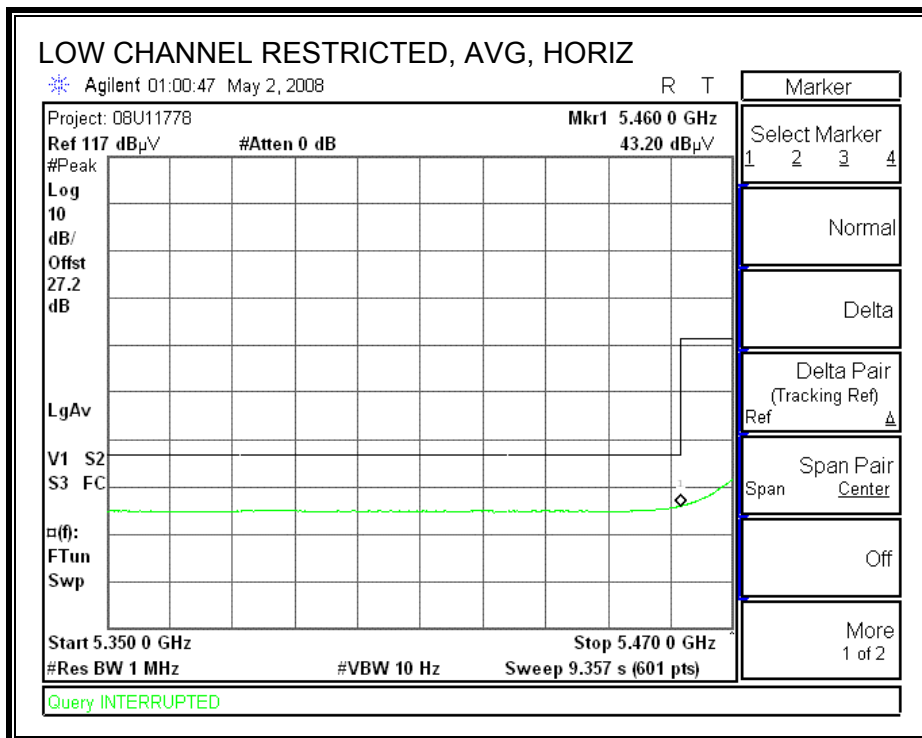
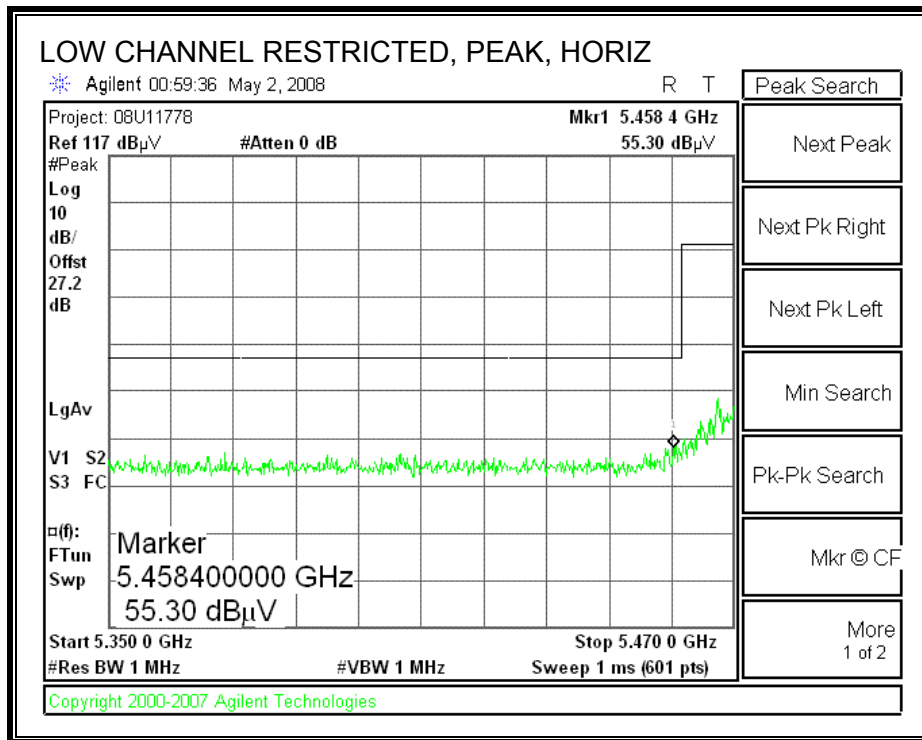
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
LOW CH, 5270 MHz															
15.810	3.0	44.0	32.5	39.0	5.2	-32.2	0.0	0.7	56.7	45.2	74	54	-17.3	-8.8	Y
15.810	3.0	43.5	31.1	39.0	5.2	-32.2	0.0	0.7	56.3	43.9	74	54	-17.7	-10.1	H
HI CH, 5310 MHz															
10.620	3.0	50.5	40.5	37.0	3.9	-34.3	0.0	0.8	57.9	47.9	74	54	-16.1	-6.1	Y
15.930	3.0	43.8	32.2	39.1	5.3	-32.2	0.0	0.7	56.6	45.0	74	54	-17.4	-9.0	Y
10.620	3.0	47.6	36.1	37.0	3.9	-34.3	0.0	0.8	55.0	43.5	74	54	-19.0	-10.5	H
15.930	3.0	43.2	31.5	39.1	5.3	-32.2	0.0	0.7	56.0	44.3	74	54	-18.0	-9.7	H
No other emissions were detected above system noise floor.															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

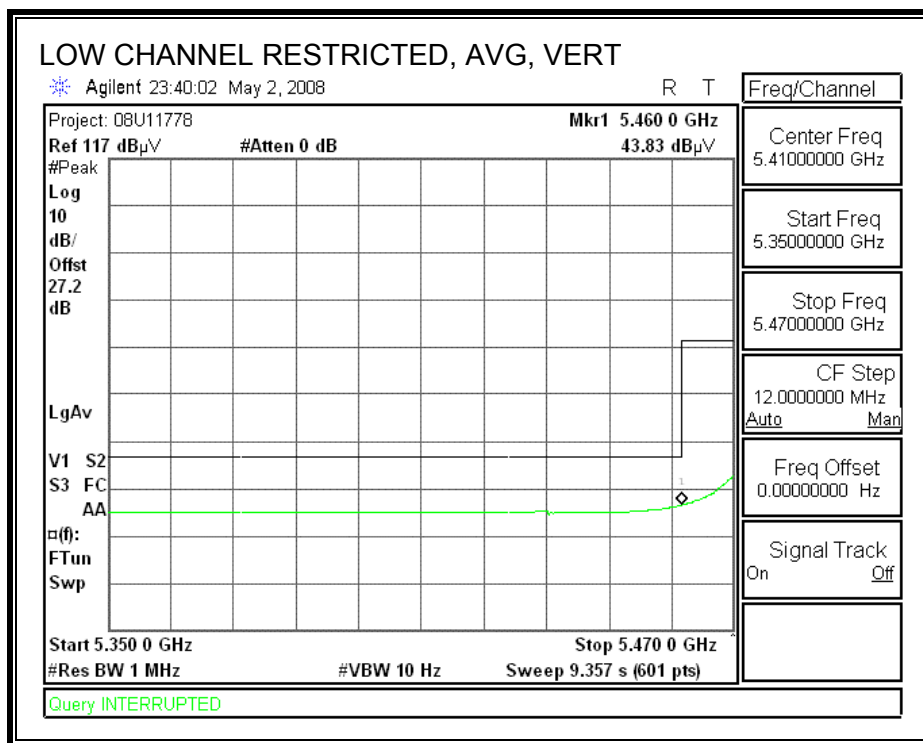
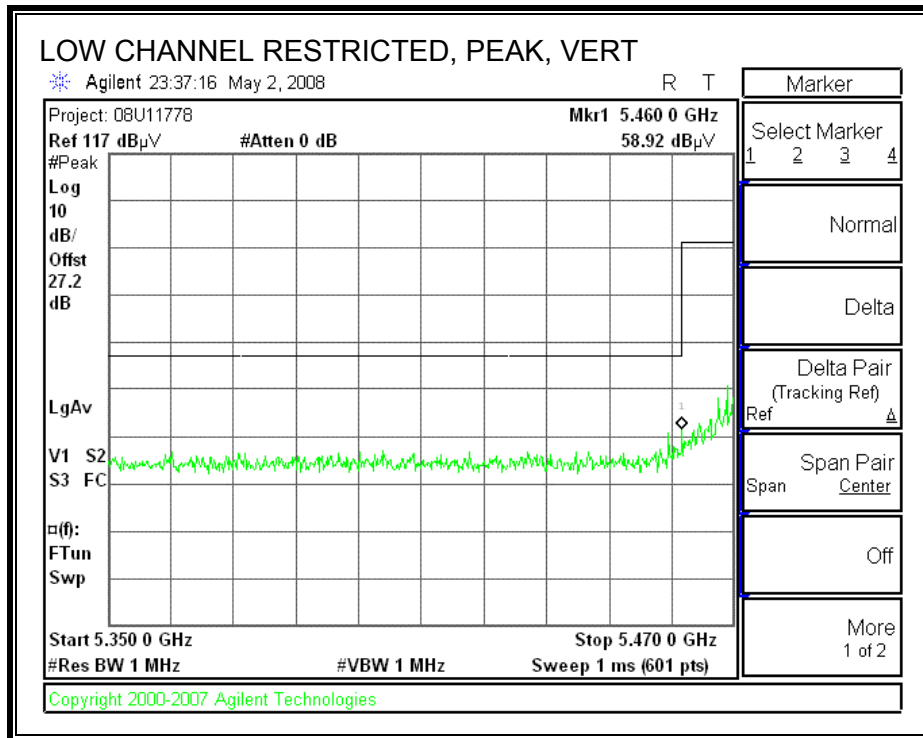
7.4. TRANSMITTER ABOVE 1 GHZ FOR 5.47–5.725 GHZ BAND

7.4.1. 802.11a MODE

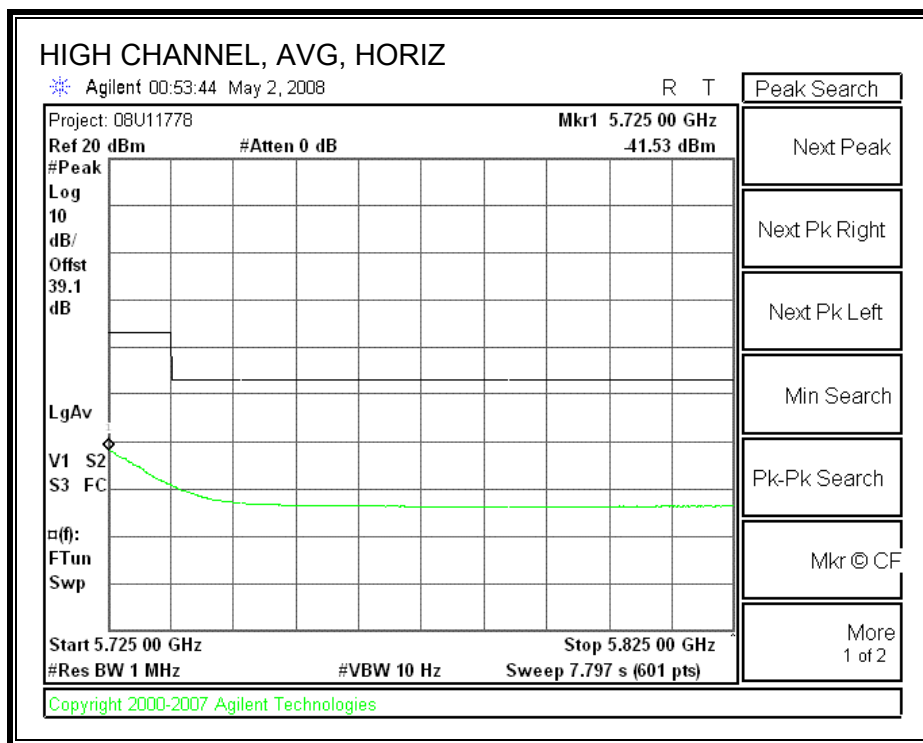
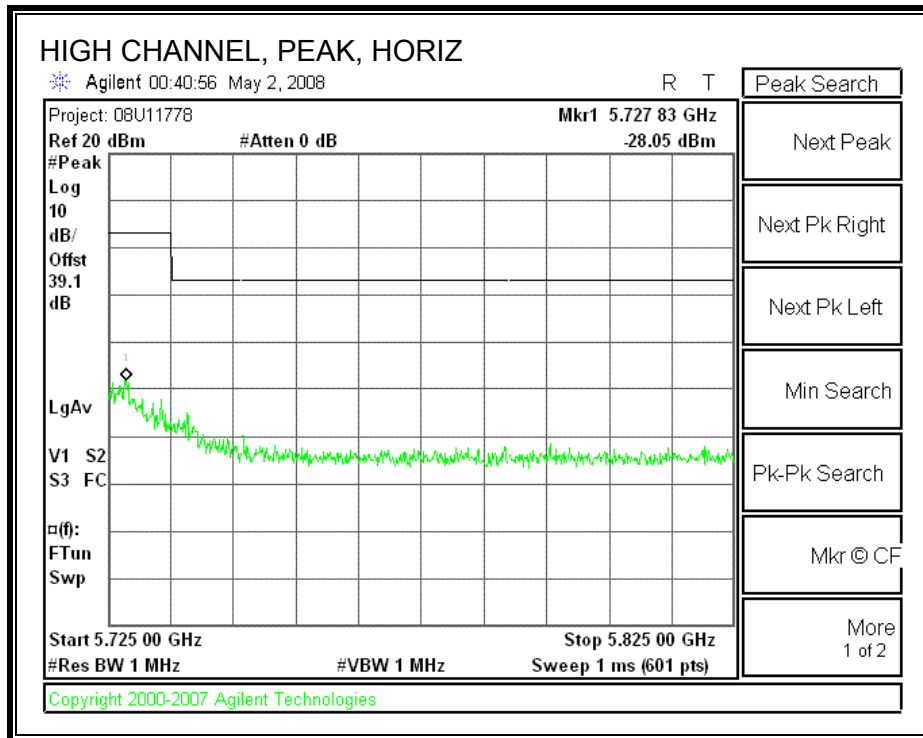
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



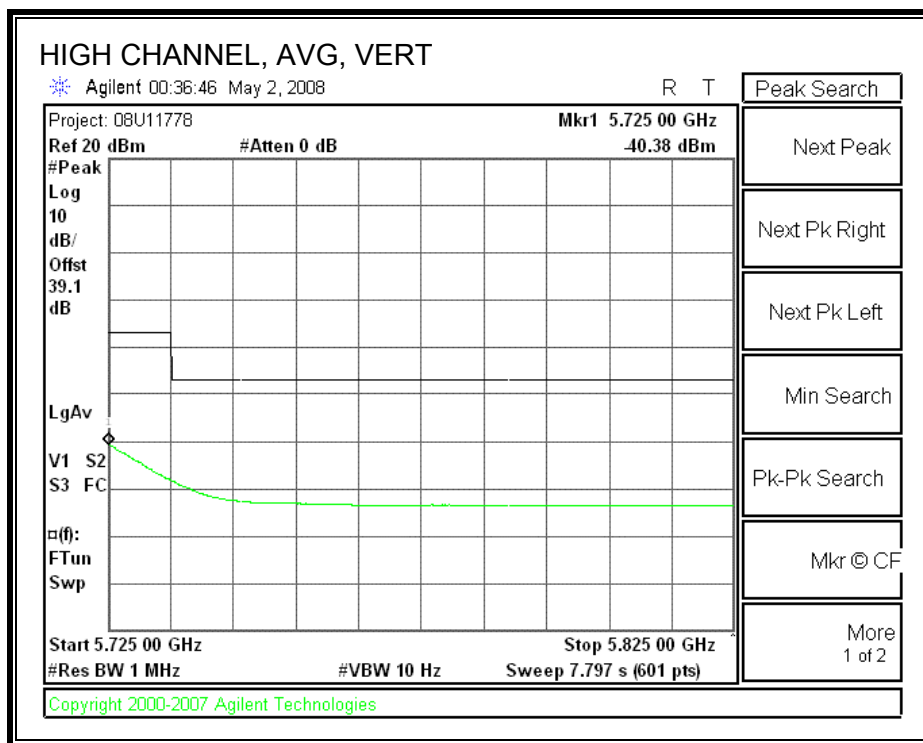
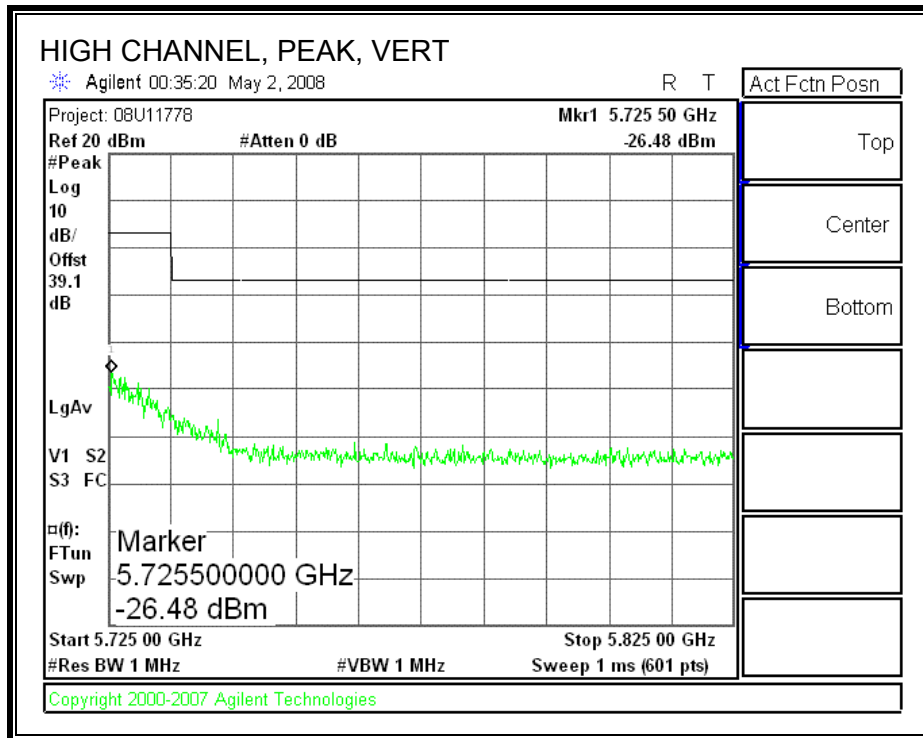
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
 Compliance Certification Services, Fremont C Chamber

Company: Intel
 Project #: 08U11778
 Date: 5/5/2008
 Test Engineer: Vien Tran
 Configuration: EUT insides HP Olifant laptop
 Mode: Tx 11a Legacy Mode_5470-5725MHz Band

Test Equipment:

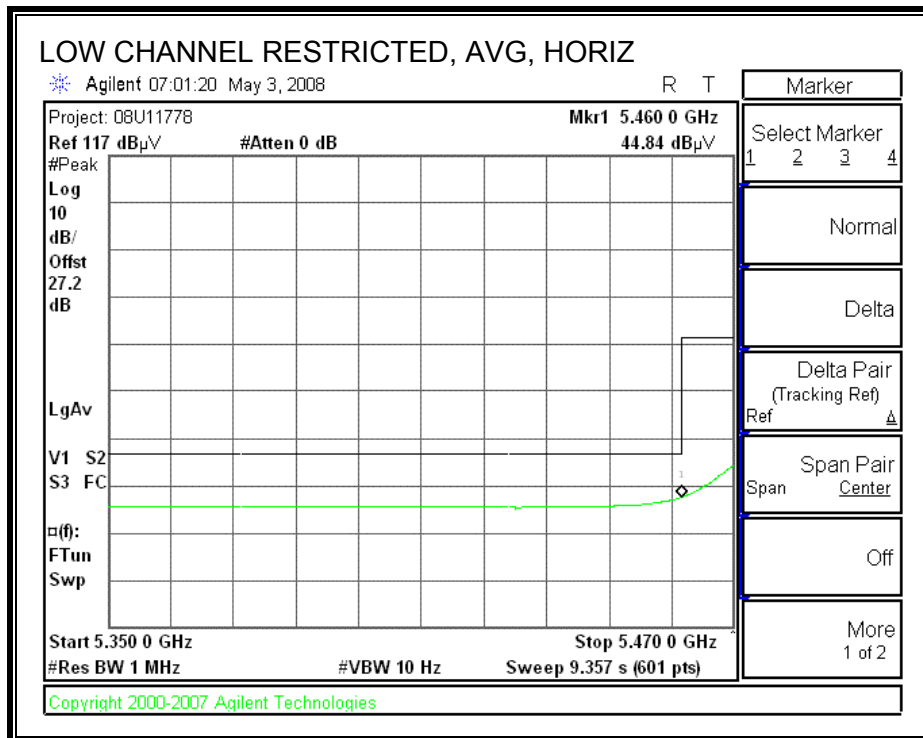
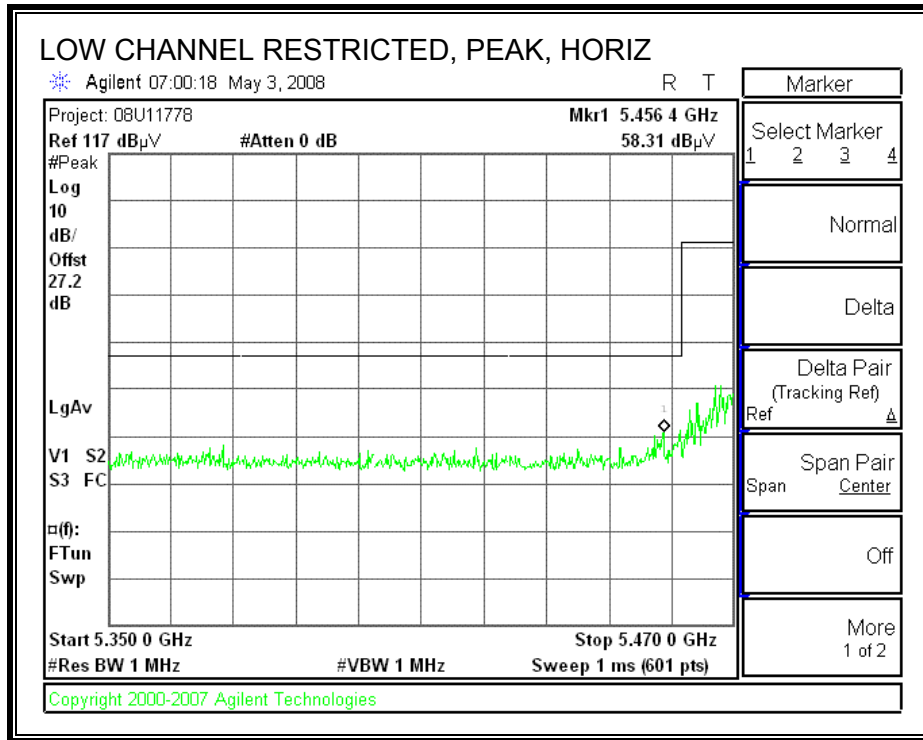
Horn 1-18GHz T136; M/N: 3117 @3m	Pre-amplifier 1-26GHz T145 Agilent 3008A0050	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit FCC 15.205
Hi Frequency Cables				
2 foot cable	3 foot cable Thanh 187215003	12 foot cable Ninous 208946002	HPF HPF_7.6GHz	Reject Filter

Peak Measurements
 RBW=VBW=1MHz
 Average Measurements
 RBW=1MHz ; VBW=10Hz

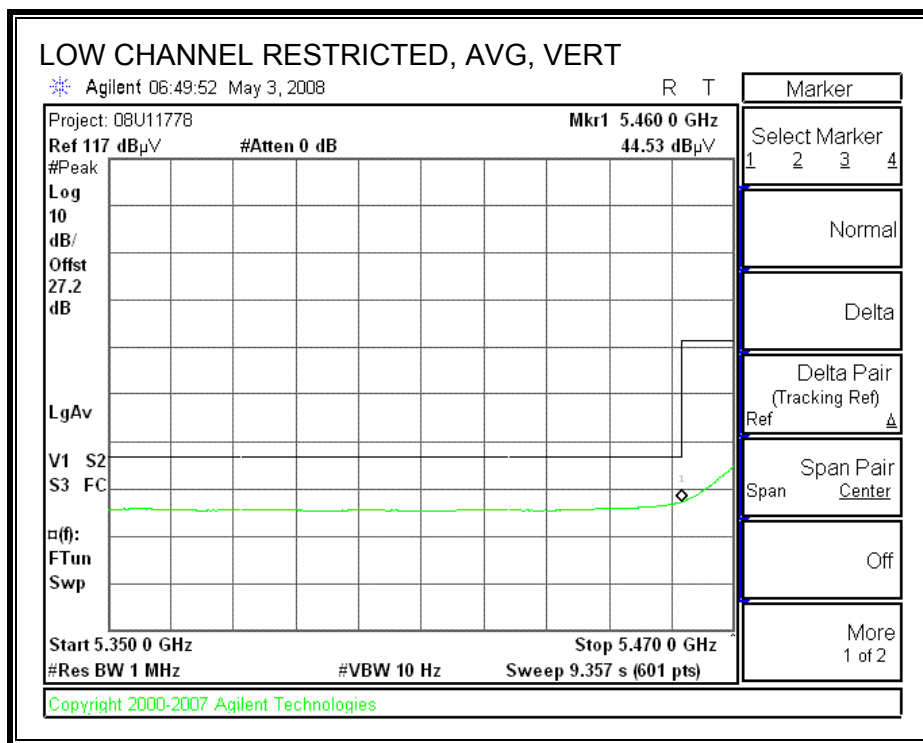
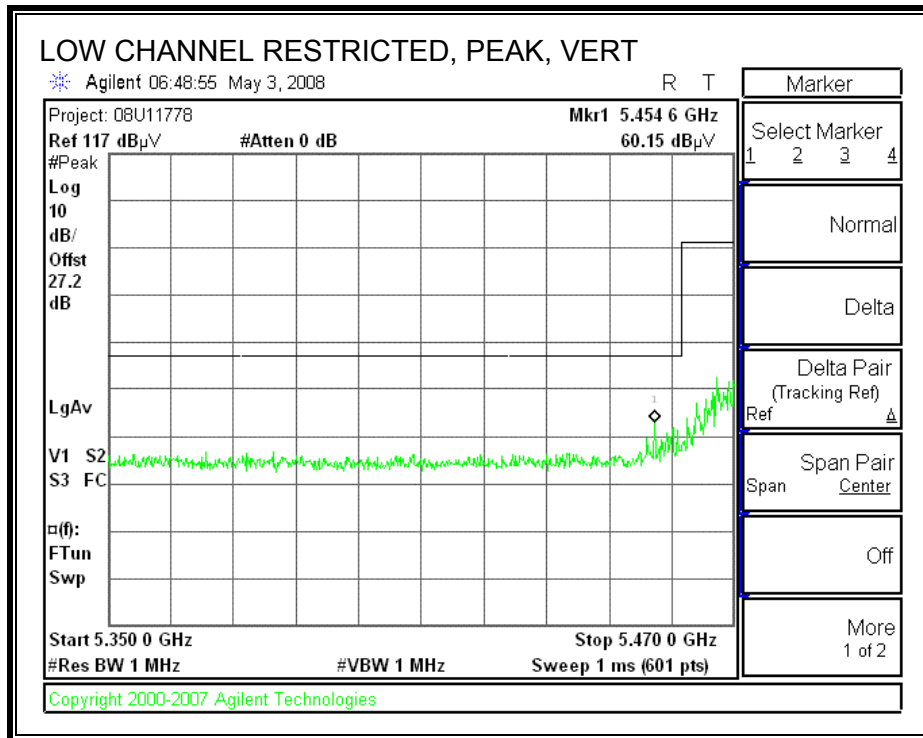
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
LOW CH, 5500 MHz															
11.000	3.0	51.7	39.7	37.2	3.9	-33.8	0.0	0.7	59.8	47.8	74	54	-14.2	-6.2	Y
11.000	3.0	47.3	36.6	37.2	3.9	-33.8	0.0	0.7	55.4	44.7	74	54	-18.6	-9.3	H
MID CH, 5600 MHz															
11.200	3.0	49.3	38.1	37.3	3.9	-33.5	0.0	0.7	57.7	46.5	74	54	-16.3	-7.5	Y
11.200	3.0	46.9	36.0	37.3	3.9	-33.5	0.0	0.7	55.3	44.4	74	54	-18.7	-9.6	H
HI CH, 5700 MHz															
11.400	3.0	45.5	34.2	37.3	3.9	-33.2	0.0	0.7	54.2	42.9	74	54	-19.8	-11.1	Y
11.400	3.0	43.1	32.1	37.3	3.9	-33.2	0.0	0.7	51.8	40.8	74	54	-22.2	-13.2	H
No other emissions were detected above system noise floor.															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

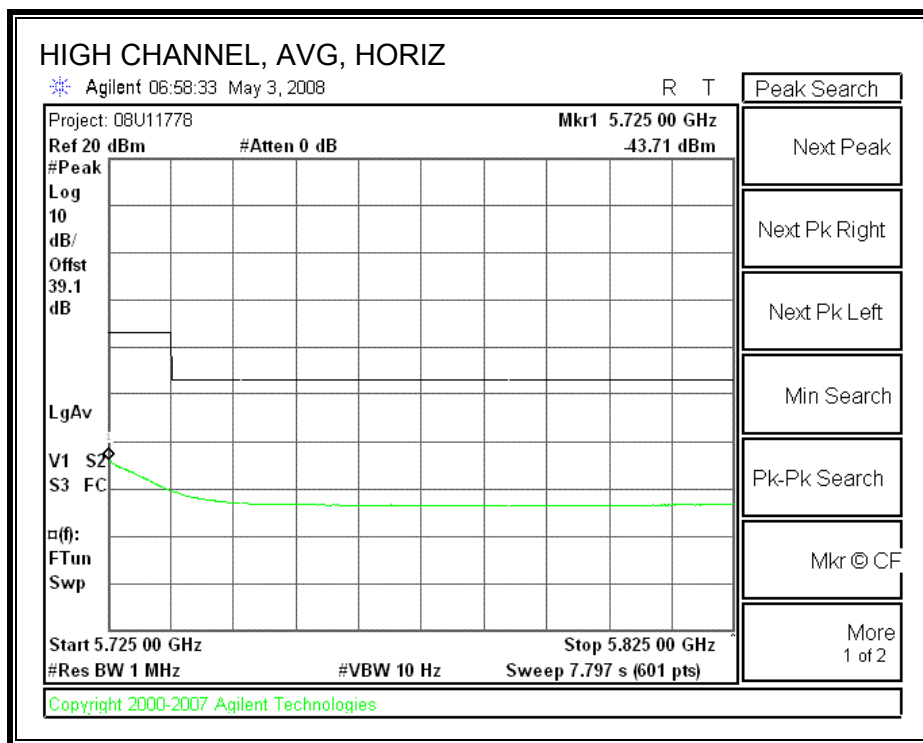
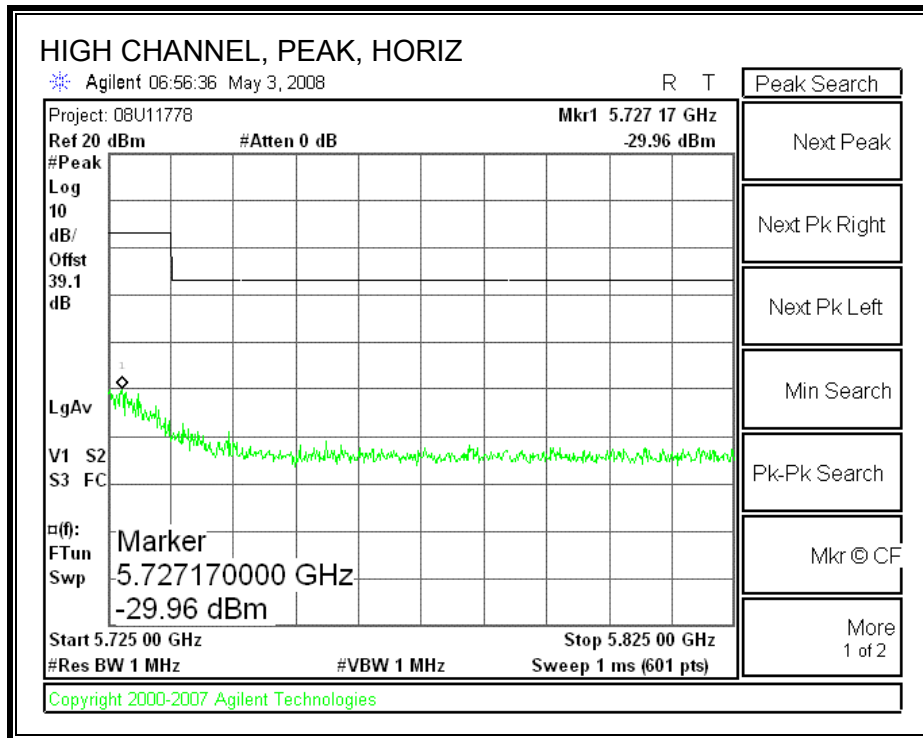
7.4.2. 802.11n HT20 MODE
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



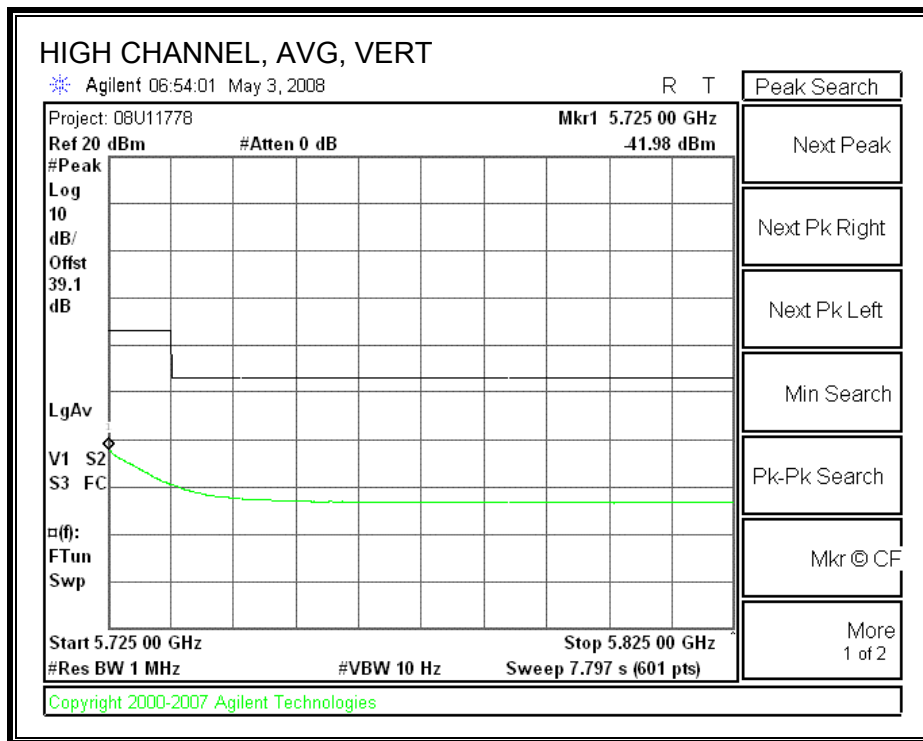
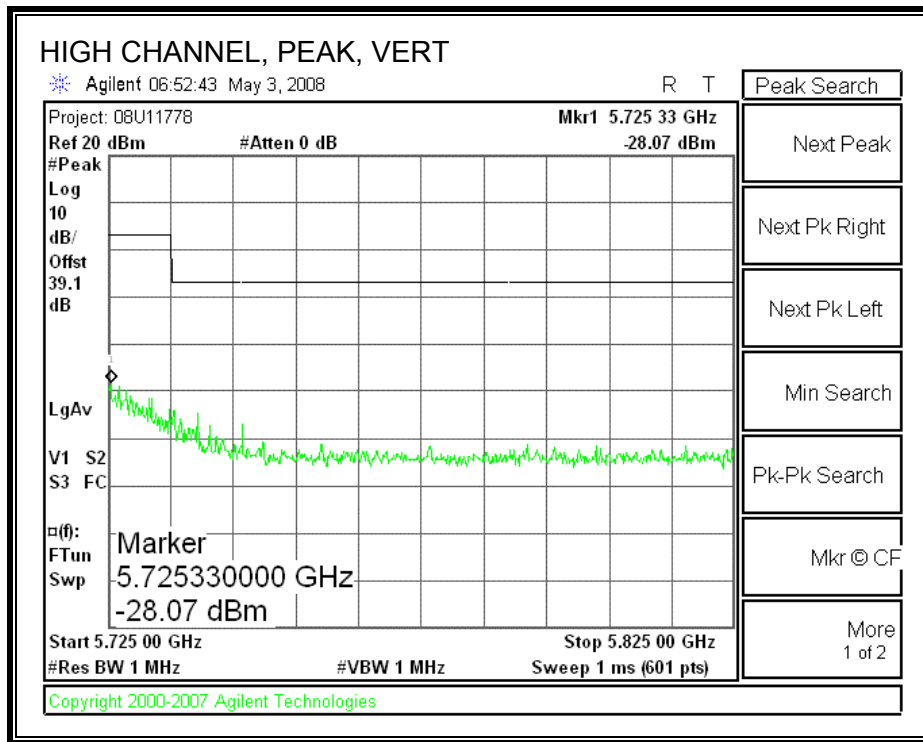
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
 Compliance Certification Services, Fremont C Chamber

Company: Intel
 Project #: 08U11778
 Date: 5/5/2008
 Test Engineer: Vien Tran
 Configuration: EUT inside HP Olifant laptop
 Mode: Tx 11n HT20 Mode_5470-5725MHz Band

Test Equipment:

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T136; M/N: 3117 @3m	T145 Agilent 3008A0050			FCC 15.205

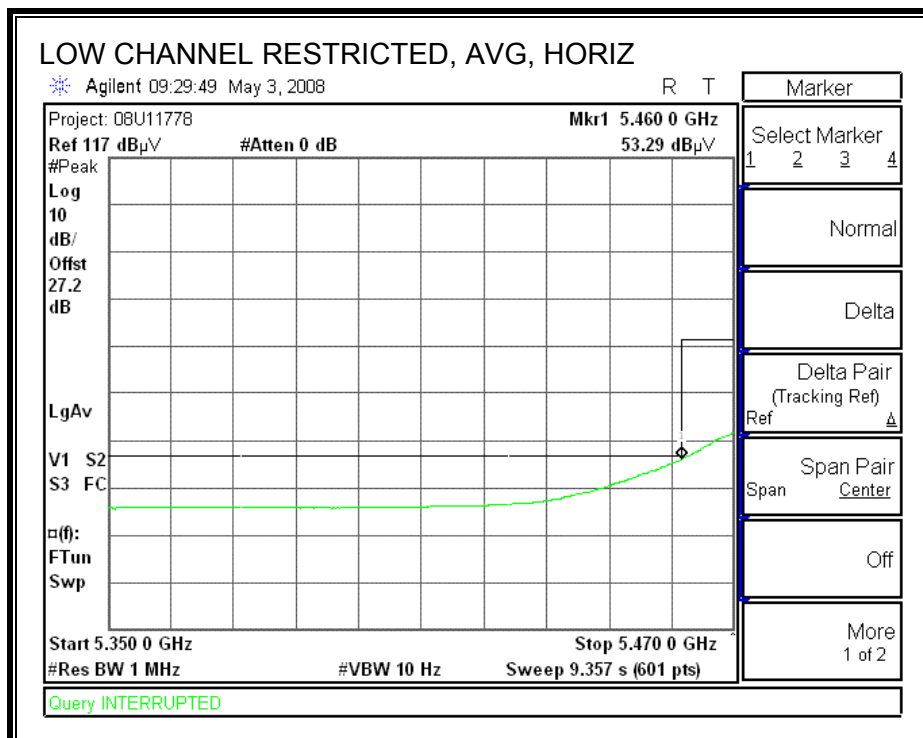
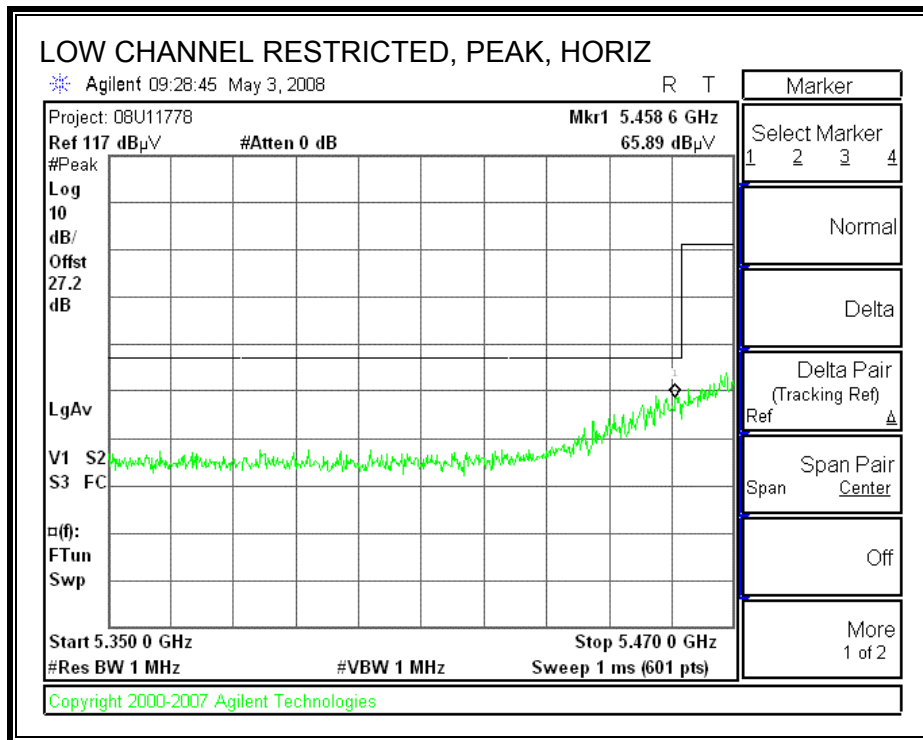
Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	
	Thanh 187215003	Ninous 208946002	HPF_7.6GHz		<u>Peak Measurements</u> RBW=VBW=1MHz <u>Average Measurements</u> RBW=1MHz ; VBW=10Hz

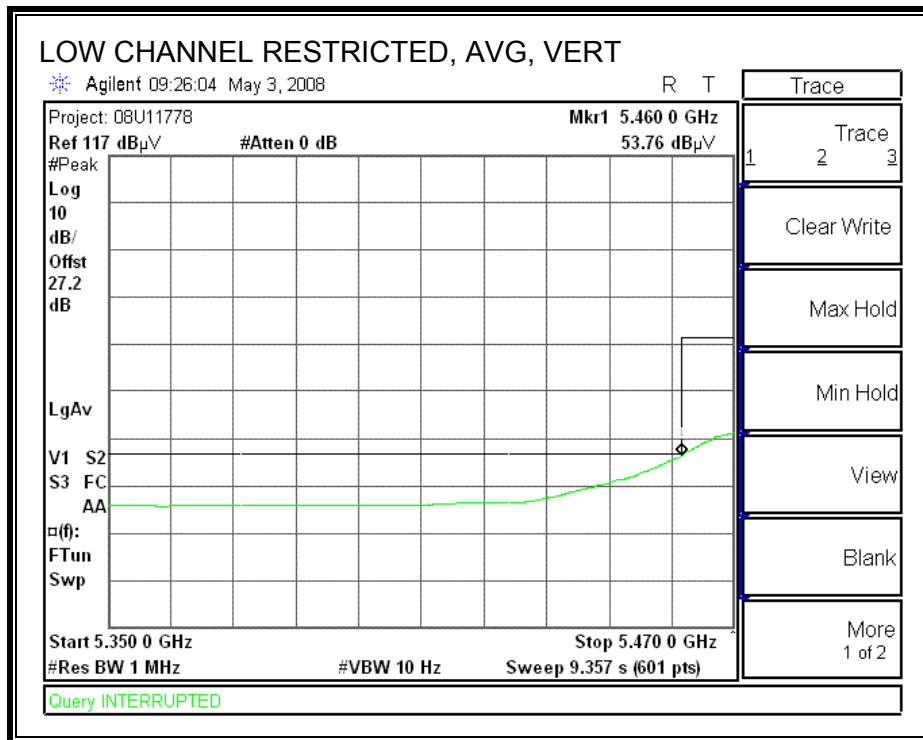
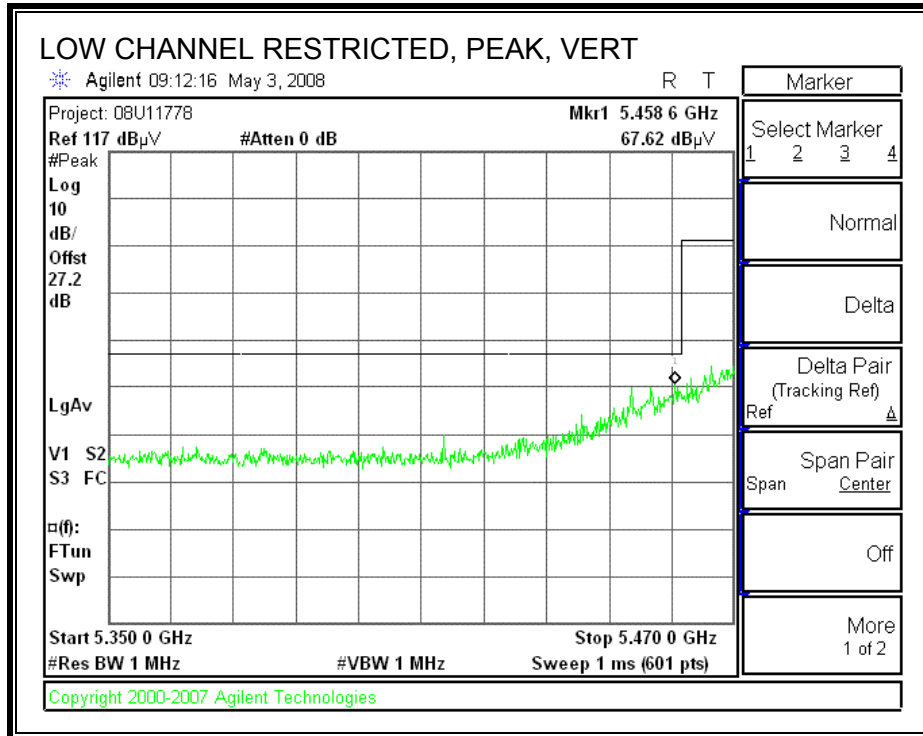
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
LOW CH, 5500 MHz															
11.000	3.0	53.7	41.7	37.2	3.9	-33.8	0.0	0.7	61.8	49.8	74	54	-12.2	-4.2	Y
11.000	3.0	49.3	38.6	37.2	3.9	-33.8	0.0	0.7	57.4	46.7	74	54	-16.6	-7.3	H
MID CH, 5600 MHz															
11.200	3.0	51.3	40.1	37.3	3.9	-33.5	0.0	0.7	59.7	48.5	74	54	-14.3	-5.5	Y
11.200	3.0	48.9	38.0	37.3	3.9	-33.5	0.0	0.7	57.3	46.4	74	54	-16.7	-7.6	H
HI CH, 5700 MHz															
11.400	3.0	47.5	36.2	37.3	3.9	-33.2	0.0	0.7	56.2	44.9	74	54	-17.8	-9.1	Y
11.400	3.0	45.1	34.1	37.3	3.9	-33.2	0.0	0.7	53.8	42.8	74	54	-20.2	-11.2	H
No other emissions were detected above system noise floor.															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

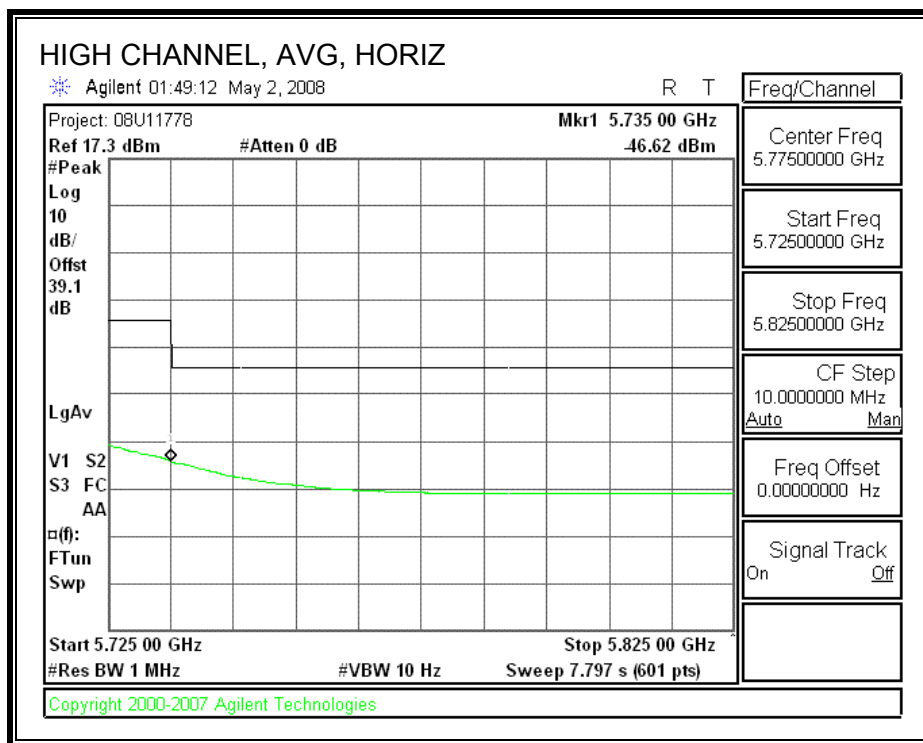
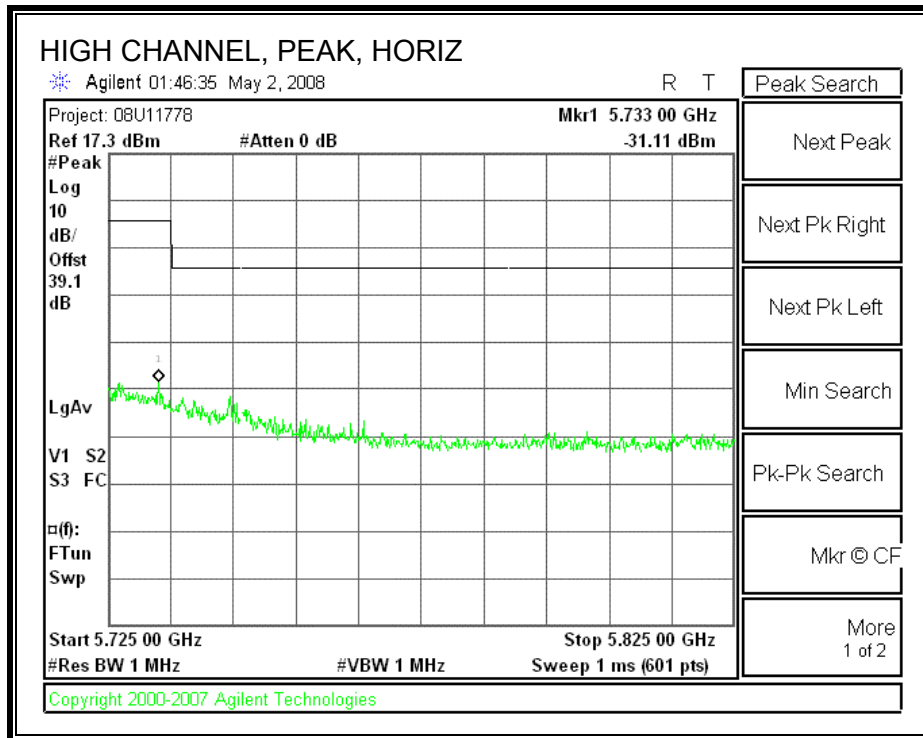
7.4.3. 802.11n HT40 MODE
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



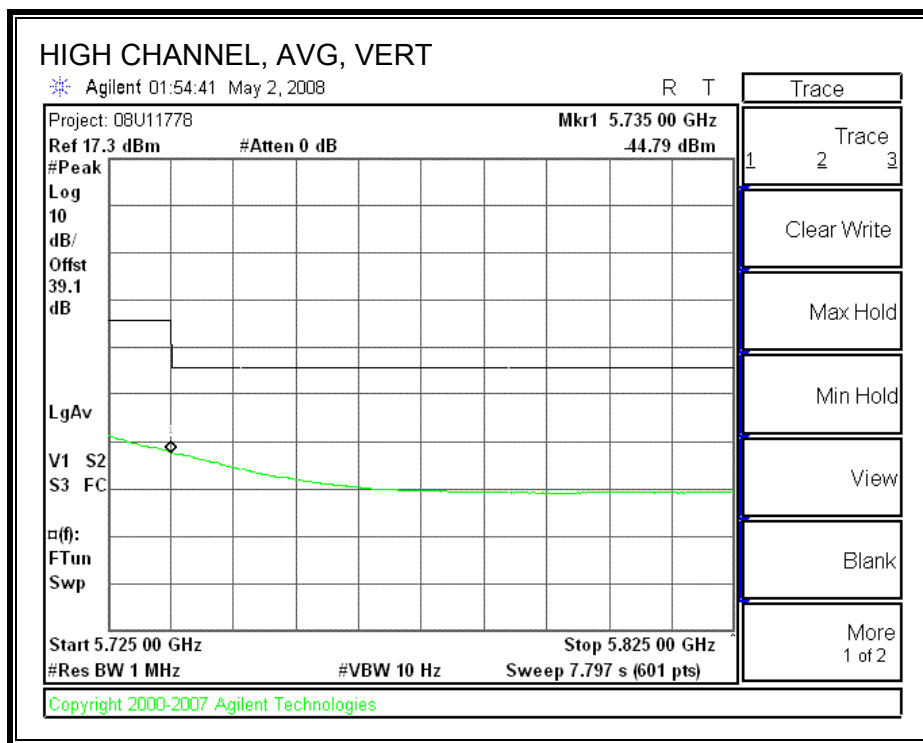
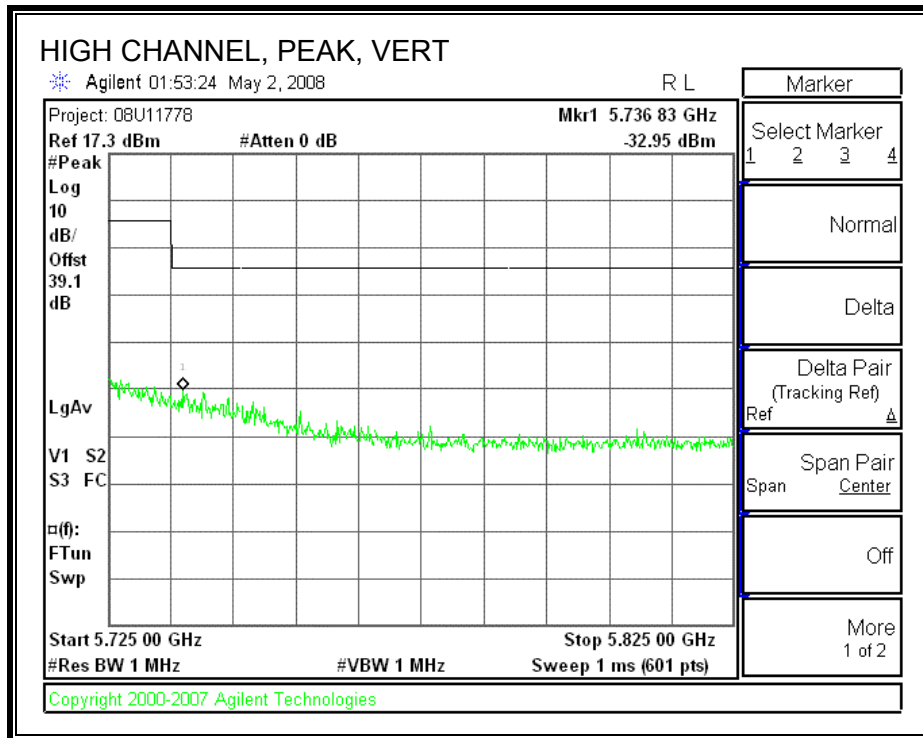
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
 Compliance Certification Services, Fremont C Chamber

Company: Intel
 Project #: 08U11778
 Date: 5/5/2008
 Test Engineer: Vien Tran
 Configuration: EUT inside: HP Olifant laptop
 Mode: Tx 11n HT40 Mode_5470-5725MHz Band

Test Equipment:

Horn 1-18GHz T136; M/N: 3117 @3m	Pre-amplifier 1-26GHz T145 Agilent 3008A0050	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit FCC 15.205
Hi Frequency Cables				
2 foot cable	3 foot cable Thanh 187215003	12 foot cable Ninous 208946002	HPF HPF_7.6GHz	Reject Filter

Peak Measurements
 RBW=VBW=1MHz
 Average Measurements
 RBW=1MHz ; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
LOW CH, 5500 MHz															
11.020	3.0	49.5	39.2	37.2	3.9	-33.7	0.0	0.7	57.6	47.3	74	54	-16.4	-6.7	Y
11.020	3.0	44.3	35.3	37.2	3.9	-33.7	0.0	0.7	52.4	43.4	74	54	-21.6	-10.6	H
MID CH, 5590 MHz															
11.180	3.0	47.0	37.8	37.3	3.9	-33.5	0.0	0.7	55.4	46.2	74	54	-18.6	-7.8	Y
11.180	3.0	43.3	34.4	37.3	3.9	-33.5	0.0	0.7	51.7	42.8	74	54	-22.3	-11.2	H
HI CH, 5670 MHz															
11.340	3.0	44.3	35.5	37.3	3.9	-33.3	0.0	0.7	52.9	44.1	74	54	-21.1	-9.9	Y
11.340	3.0	42.2	31.8	37.3	3.9	-33.3	0.0	0.7	50.8	40.4	74	54	-23.2	-13.6	H
No other emissions were detected above system noise floor.															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

7.5. RECEIVER ABOVE 1 GHZ

Project #: 08U11778
 Date: 5/5/2008
 Test Engineer: Vien Tran
 Configuration: EUT insides HP Olifant laptop
 Mode: Rx UNII Band

Test Equipment:

Horn 1-18GHz T136; M/N: 3117 @3m	Pre-amplifer 1-26GHz T145 Agilent 3008A0050	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit RX RSS 210
Hi Frequency Cables				
2 foot cable	3 foot cable Thanh 187215003	12 foot cable Ninous 208946002	HPF	Reject Filter R_001
Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz				

f GHz	Dist (m)	Read Pk dBuV	Read Avg dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
1.100	3.0	53.5	41.5	27.9	1.6	-36.1	0.0	0.0	46.9	34.9	74	54	-27.1	-19.1	V
1.330	3.0	53.3	38.5	28.7	1.7	-35.9	0.0	0.0	47.7	32.9	74	54	-26.3	-21.1	V
1.100	3.0	53.6	39.4	27.9	1.6	-36.1	0.0	0.0	47.0	32.8	74	54	-27.0	-21.2	H
1.330	3.0	56.6	40.4	28.7	1.7	-35.9	0.0	0.0	51.0	34.8	74	54	-23.0	-19.2	H
No other emissions were detected above system noise floor.															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

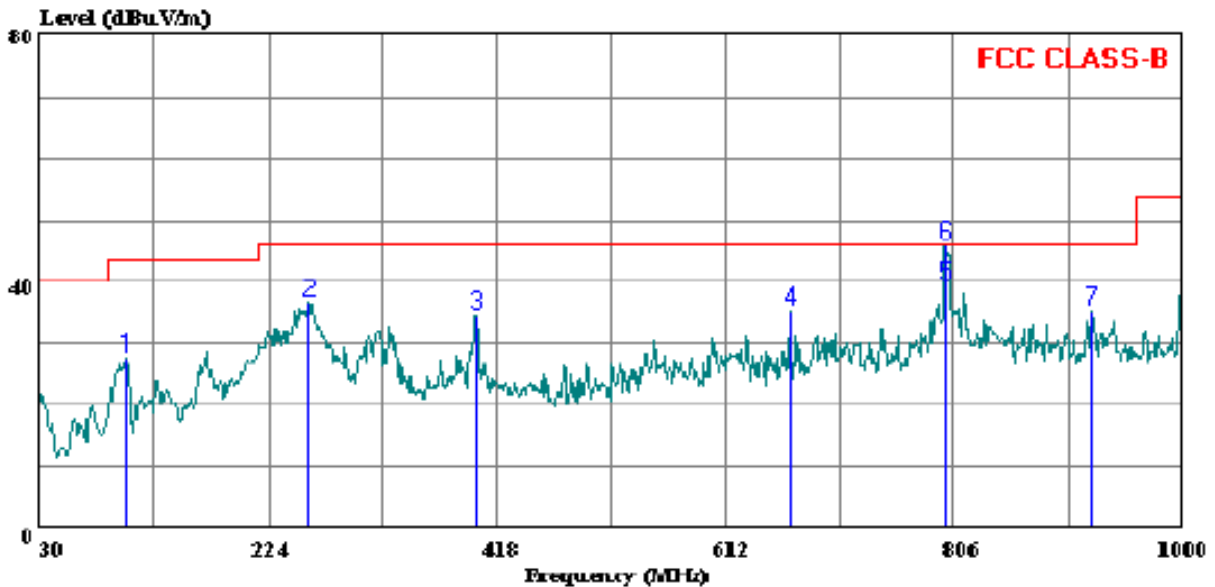
7.5.1. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



Compliance Certification Services
 47173 Benicia Street
 Fremont, CA 94538
 Tel: (510) 771-1000
 Fax: (510) 661-0888

Data#: 15 File#: 08u11778.EMI Date: 05-06-2008 Time: 10:38:18



Trace: 12

Ref Trace:

Condition: FCC CLASS-B HORIZONTAL
 Test Operator:: Devin Chang
 Project #: : 08U11778
 Company: : Intel
 Configuration: EUT/Support Equipment
 Mode : : 5GHz Worst case
 Target: : FCC Class B

Page: 1

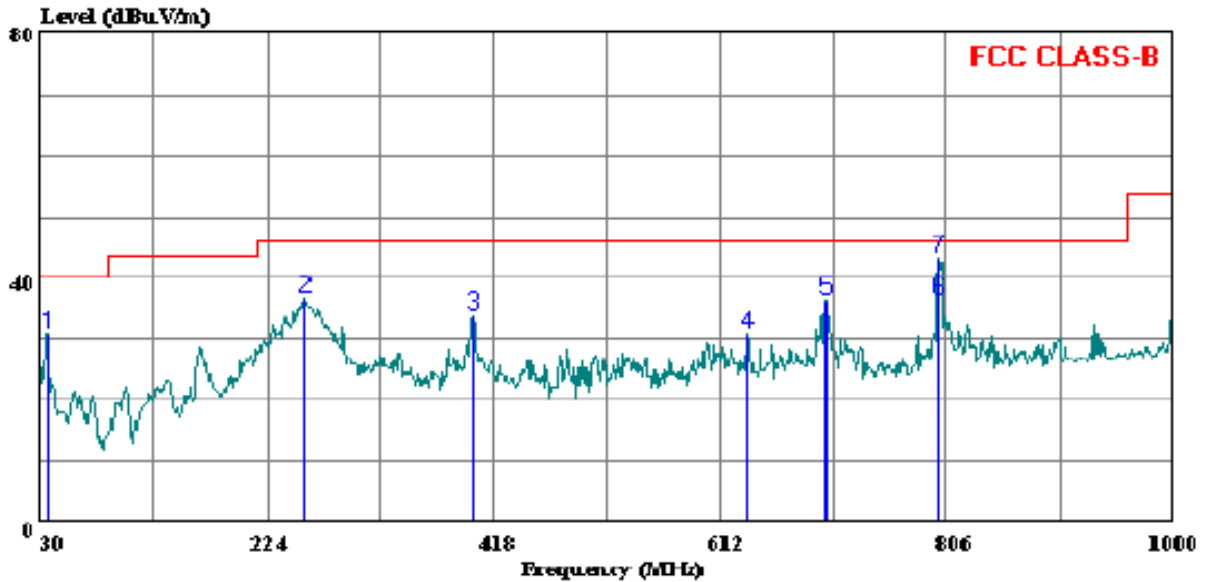
	Read	Limit	Over				
Freq	Level	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	103.720	47.33	-19.78	27.56	43.50	-15.94	Peak
2	258.920	54.17	-17.39	36.77	46.00	-9.23	Peak
3	400.540	48.00	-13.46	34.54	46.00	-11.46	Peak
4	666.320	44.17	-8.94	35.22	46.00	-10.78	Peak
5	798.240	46.43	-6.87	39.56	46.00	-6.44	QP
6 *	798.240	52.92	-6.87	46.05	46.00	0.05	Peak
7	923.370	39.83	-4.56	35.27	46.00	-10.73	Peak

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



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Data#: 19 File#: 08u11778.EMI Date: 05-06-2008 Time: 10:50:29



Trace: 16

Ref Trace:

Condition: FCC CLASS-B VERTICAL
 Test Operator:: Devin Chang
 Project #: : 08U11778
 Company: : Intel
 Configuration:: EUT/Support Equipment
 Mode : : 5GHz Worst case
 Target: : FCC Class B

Page: 1

	Freq	Read	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	35.820	42.85	-12.14	30.71	40.00	-9.29	Peak
2	256.010	54.33	-17.53	36.80	46.00	-9.20	Peak
3	401.510	47.17	-13.39	33.78	46.00	-12.22	Peak
4	636.250	40.17	-9.37	30.80	46.00	-15.20	Peak
5	702.210	44.83	-8.41	36.42	46.00	-9.58	Peak
6	799.210	43.30	-6.87	36.43	46.00	-9.57	QP
7	799.210	50.00	-6.87	43.13	46.00	-2.87	Peak

8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

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

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

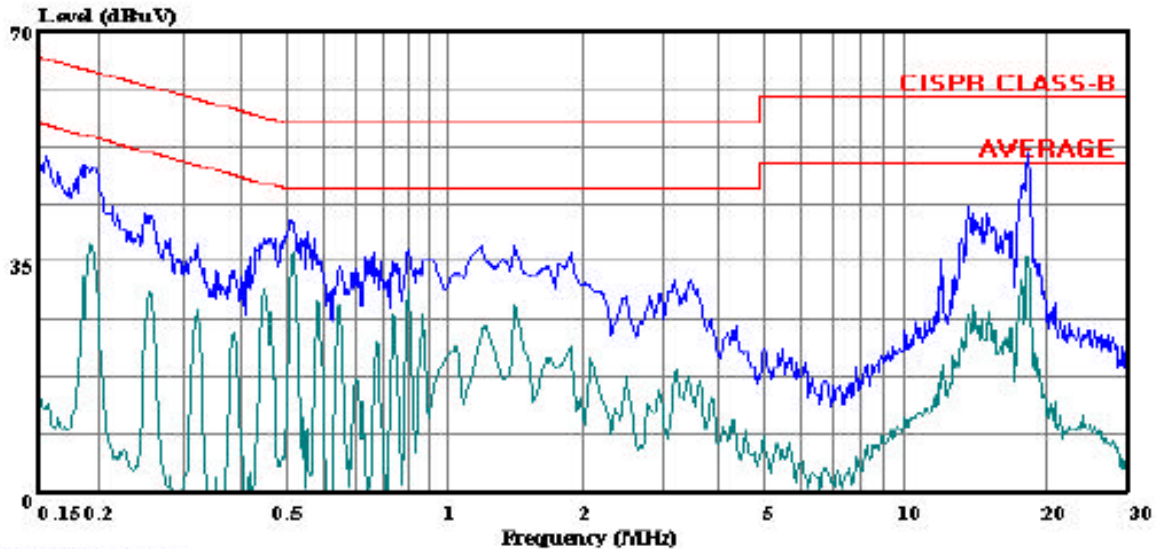
CONDUCTED EMISSIONS DATA (115VAC 60Hz)										
Freq. (MHz)	Reading			Class (dB)	Limit QP	FCC_B		Margin		Remark L1 / L2
	PK (dBuV)	QP (dBuV)	AV (dBuV)			AV	QP (dB)	AV (dB)		
0.19	49.33	--	37.32	0.00	63.95	53.95	-14.62	-16.63	L1	
0.52	41.11	--	36.46	0.00	56.00	46.00	-14.89	-9.54	L1	
18.33	51.50	--	35.70	0.00	60.00	50.00	-8.50	-14.30	L1	
0.19	49.63	--	37.04	0.00	63.95	53.95	-14.32	-16.91	L2	
0.52	41.06	--	36.33	0.00	56.00	46.00	-14.94	-9.67	L2	
18.33	51.29	--	35.62	0.00	60.00	50.00	-8.71	-14.38	L2	
6 Worst Data										

LINE 1 RESULTS



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Fax: (510) 661-0888

Data#: 7 File#: 08U11778 LC.BMI Date: 05-06-2008 Time: 11:02:19



(Line Conduction)

Trace: 5

Ref Trace:

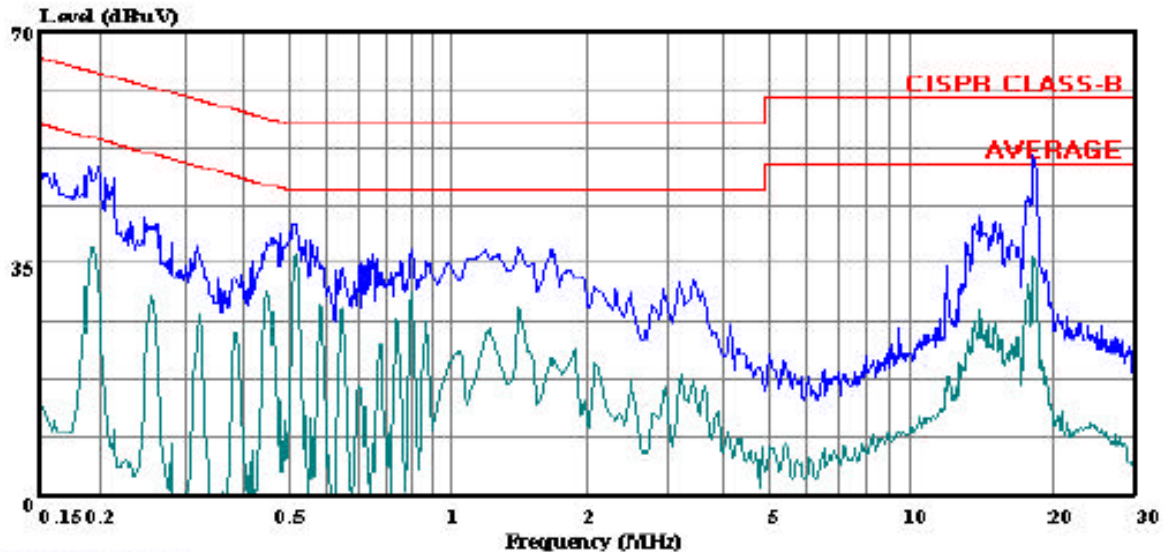
Condition: CISPR CLASS-B
Test Operator:: Vien Tran
Project #: : 08U11778
Company: : Intel
Configuration:: Intel WiFi Link 5100 installed inside
: HP Olifant portable tablet
Mode: : Tx Worst-case
Target: : FCC Class B
Voltage: : 115VAC / 60Hz
: Line 1: Peak (Blue), Average (Green)

LINE 2 RESULTS



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Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 14 File#: 08U11778 LC.EMI Date: 05-06-2008 Time: 11:11:59



(Line Conduction)

Trace: 12

Ref Trace:

Condition: CISPR CLASS-B
Test Operator:: Vien Tran
Project #: : 08U11778
Company: : Intel
Configuration:: Intel WiFi Link 5100 installed inside
: HP Olifant portable tablet
Mode: : Tx Worst-case
Target: : FCC Class B
Voltage: : 115VAC / 60Hz
: Line 2: Peak (Blue), Average (Green)