



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

CERTIFICATION TEST REPORT

FOR

Intel Wi-Fi Link 5100 Series

MODEL NUMBER: PA3655U-1MPC

**FCC ID: CJ6UPA3655WL
IC: 248H-DPA3655W**

REPORT NUMBER: 08U12001-2

ISSUE DATE: AUGUST 25, 2008

Prepared for
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DIGITAL MEDIA NETWORK COMPANY
OME COMPLEX, 2-9, SUEHIRO-CHO
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	08/25/08	Initial Issue	T. Chan

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	5
4.1. MEASURING INSTRUMENT CALIBRATION	5
4.2. MEASUREMENT UNCERTAINTY	5
5. EQUIPMENT UNDER TEST	6
5.1. DESCRIPTION OF EUT	6
5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE	6
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	6
5.4. SOFTWARE AND FIRMWARE	6
5.5. WORST-CASE CONFIGURATION AND MODE	6
5.6. DESCRIPTION OF TEST SETUP	7
6. TEST AND MEASUREMENT EQUIPMENT	9
7. RADIATED TEST RESULTS	10
7.1. LIMITS AND PROCEDURE	10
7.2. TRANSMITTER ABOVE 1 GHz IN THE 5.2 GHz BAND	11
7.2.1. TRANSMITTER ABOVE 1 GHz FOR 802.11a LEGACY MODE	11
7.2.2. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT20 MODE	14
7.2.3. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT40 MODE	17
7.3. TRANSMITTER ABOVE 1 GHz IN THE 5.3 GHz BAND	20
7.3.1. TRANSMITTER ABOVE 1 GHz FOR 802.11a LEGACY MODE	20
7.3.2. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT20 MODE	23
7.3.3. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT40 MODE	26
7.4. TRANSMITTER ABOVE 1 GHz IN THE 5.6 GHz BAND	29
7.4.1. TRANSMITTER ABOVE 1 GHz FOR 802.11a LEGACY MODE	29
7.4.2. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT20 MODE	34
7.4.3. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT40 MODE	39
7.5. RECEIVER ABOVE 1 GHz	44
7.6. WORST-CASE BELOW 1 GHz	45
8. AC POWER LINE CONDUCTED EMISSIONS	49
9. SETUP PHOTOS	52

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: TOSHIBA CORPORATION
DIGITAL MEDIA NETWORK COMPANY
OME COMPLEX, 2-9, SUEHIRO-CHO
TOKYO, 198-8710, JAPAN

EUT DESCRIPTION: Intel Wi-Fi Link 5100 Series

MODEL: PA3655U-1MPC

SERIAL NUMBER: 3C4823509040

DATE TESTED: AUGUST 6 – 25, 2008


APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Pass
INDUSTRY CANADA RSS-210 Issue 7 Annex 9	Pass
INDUSTRY CANADA 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 indications of Pass/Fail in this report are opinions expressed by CCS based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

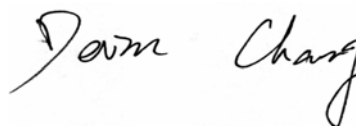
Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS 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:

Tested By:



THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES



DEVIN CHANG
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, 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 802.11a/b/g/n transceiver Intel Wi-Fi Link 5100 Series

The radio module is manufactured by Intel.

5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The major changes filed under this application are:

Change #1: Adding Portege M750 Tablet.

Change #2: Adding co-location with BT module FCC ID: RYYEYTFXCS.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an PFA antenna, with maximum gain of -0.55 dBi from 2400 - 2483.5 MHz, -1.06 dBi from 5150 - 5350 MHz, 2.11 dBi from 5470 - 5725 MHz, and 2.11 dBi from 5725 - 5850 MHz.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Intel® WiFi Link 5100-xVT

The test utility software used during testing was CRTU, rev. 5.0.69.0.

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power.

The worst-position was the EUT with highest emissions. To determine the worst-case, the EUT was investigated for X, Y, Z, and mobile Positions, after the investigations, the worst-position were turned out to be a mobile position for all bands.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	TOSHIBA	PORTEGE M750	78033440H	DoC
AC Adaptor	TOSHIBA	PA3282U-5ACA	G71C0006Q310	DoC

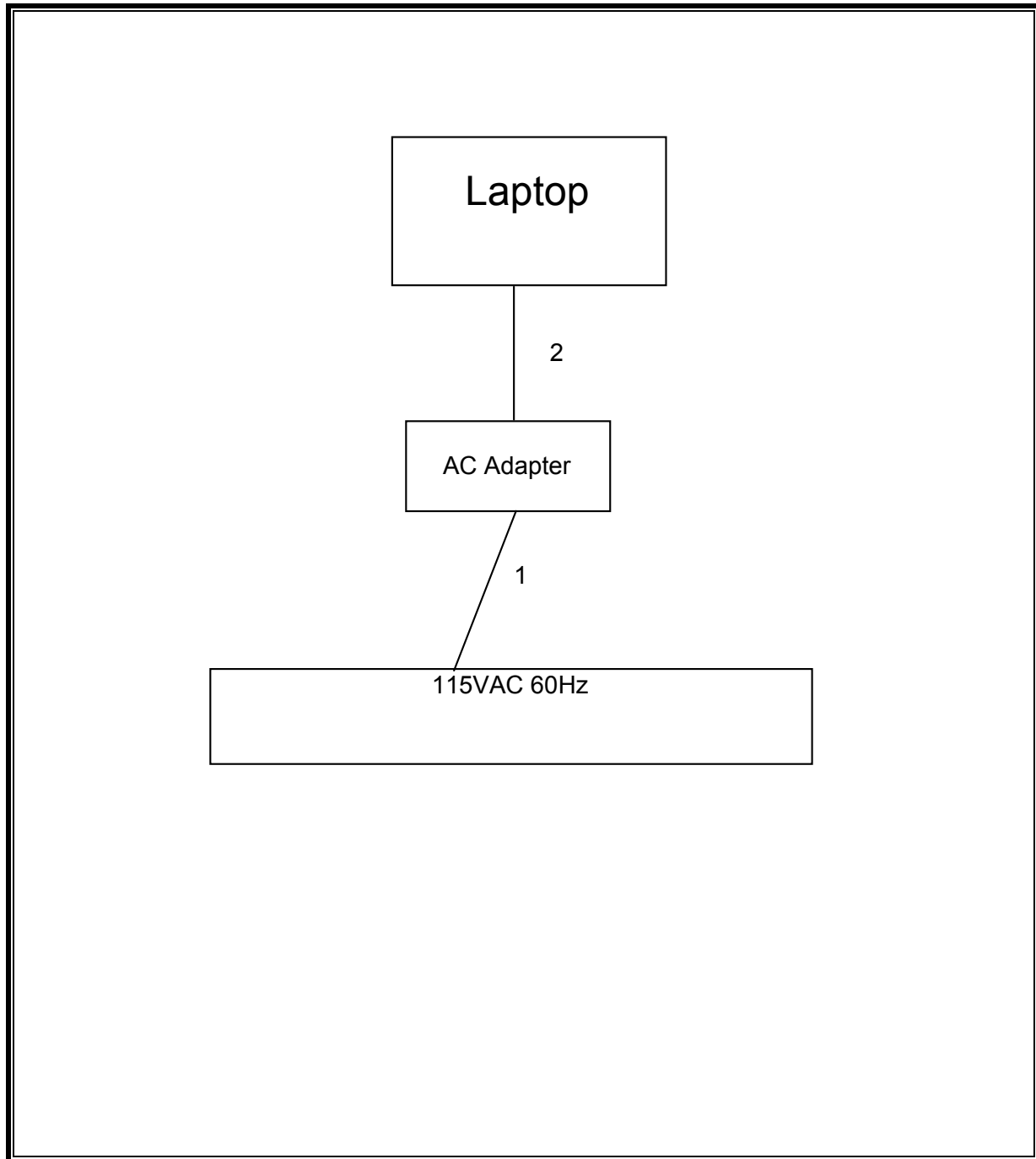
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identica Ports	Connector Type	Cable Type	Cable Length	Remarks
<u>1</u>	AC	1	US 115V	Un-shielded	1.7m	NA
2	DC	1	DC	Un-shielded	1.7m	NA

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 Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	10/08/09
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	08/03/09
Antenna, Horn, 18 GHz	ETS	3117	C01005	04/22/09
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	03/31/09
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01016	09/28/08
RF Filter Section, 2.9 GHz	Agilent / HP	85420E	C00958	09/19/09
EMI Receiver, 2.9 GHz	Agilent / HP	8542E	C00957	09/19/09
2.4 GHz High Pass Filter	Micro Tronics	BRC13192	N02683	N/A
Antenna, Horn, 26.5 GHz	ARA	MMH-1826/B	C00980	09/29/08
Antenna, Horn, 18 GHz	EMCO	3115	C00872	04/22/09
Preamplifier, 40 GHz	Miteq	NSP4000-SP2	C00990	10/11/08
High Pass Filter 7.6GHz	Micro Tronics	HPM13195	N02681	CNR
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/06/09
LISN, 30 MHz	FCC	LISN-50/250-25-	N02625	10/25/08

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 (uV/m) at 3 m	Field Strength Limit (dBuV/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.

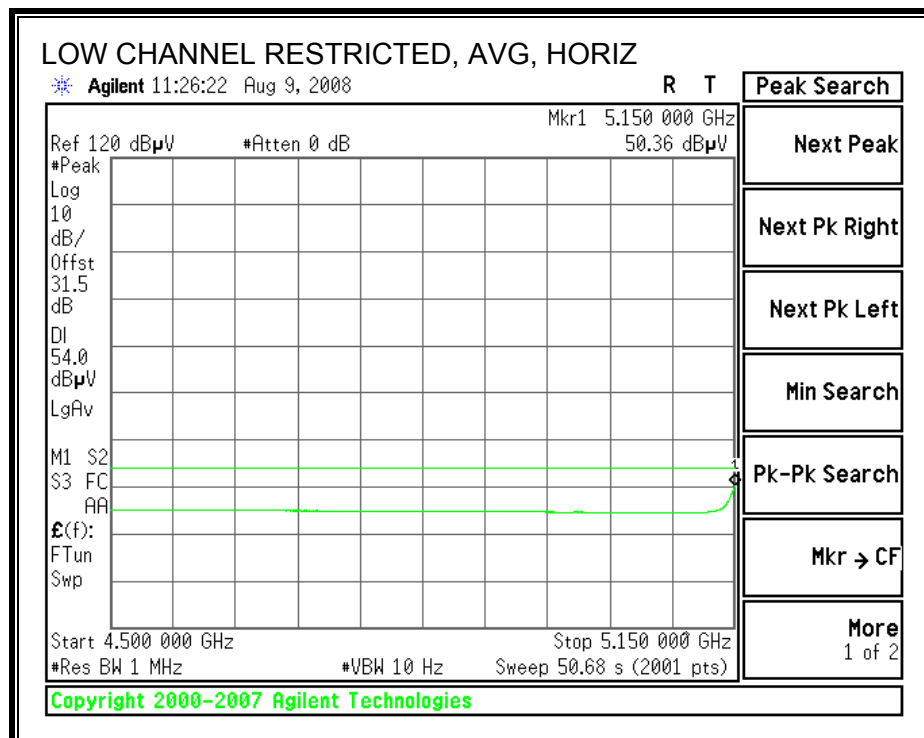
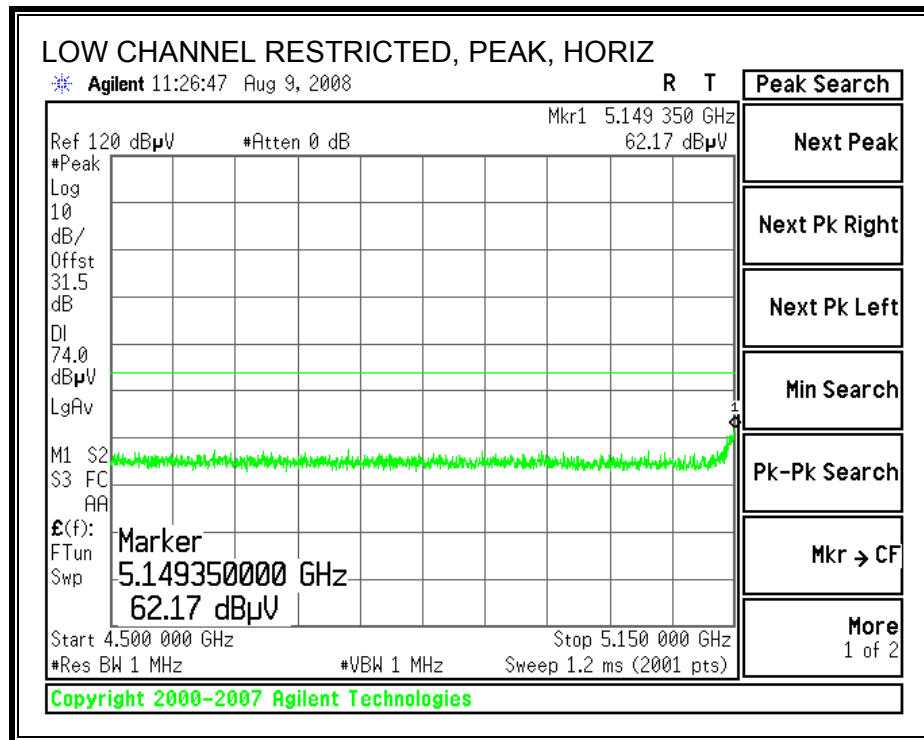
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

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

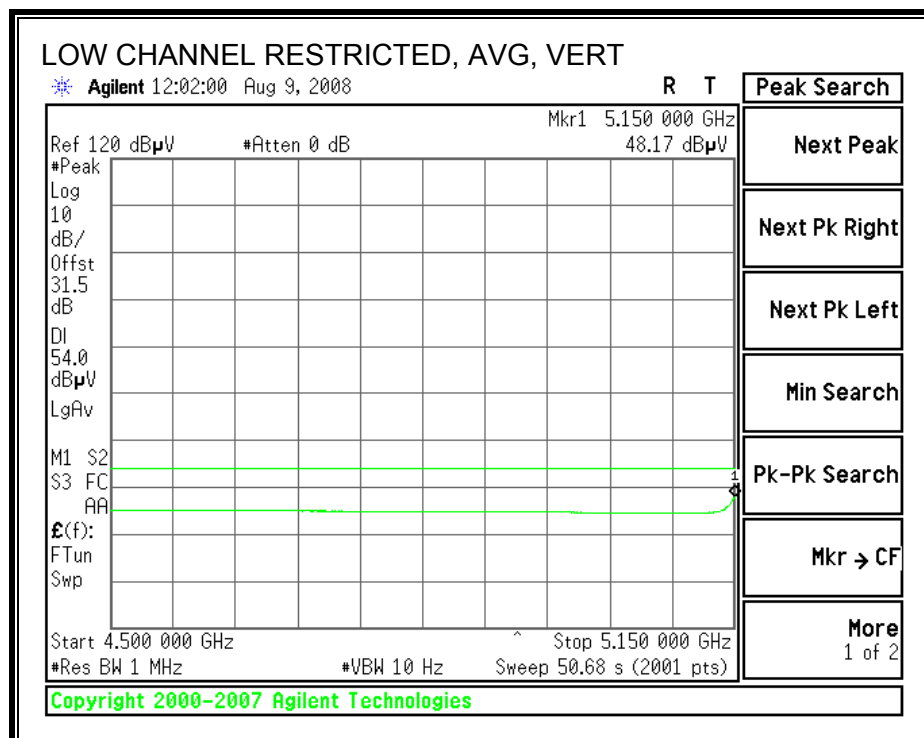
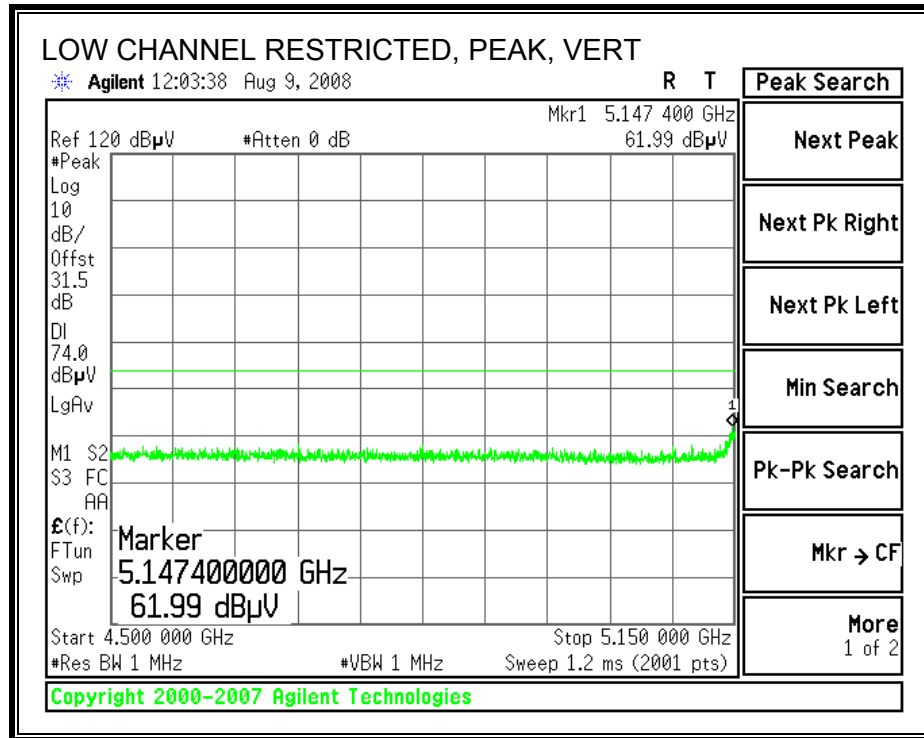
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

7.2. TRANSMITTER ABOVE 1 GHz IN THE 5.2 GHz BAND

7.2.1. TRANSMITTER ABOVE 1 GHz FOR 802.11a LEGACY MODE RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

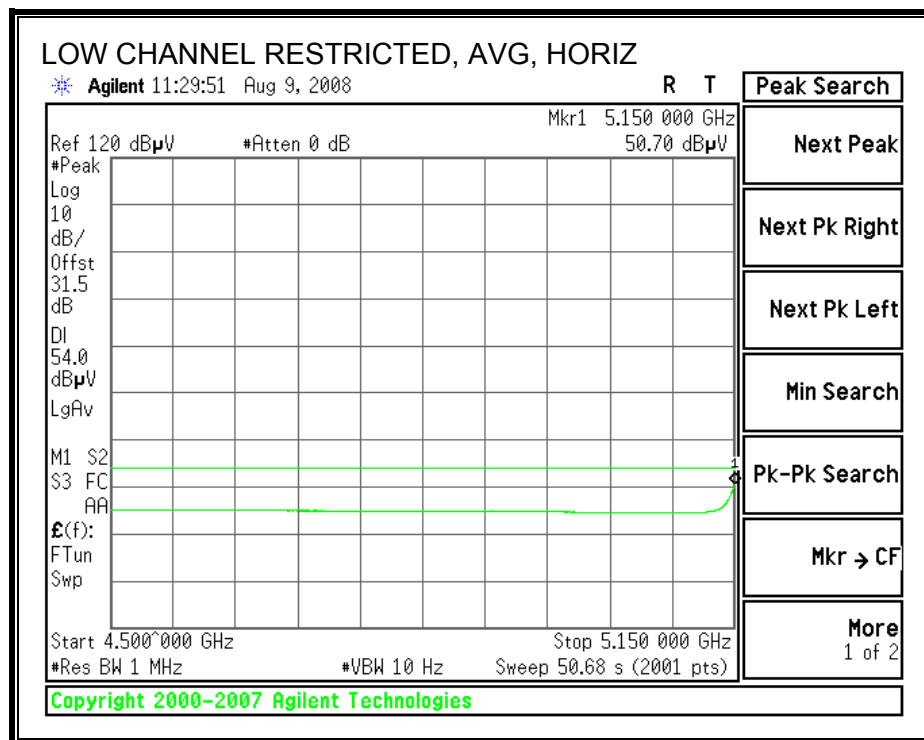
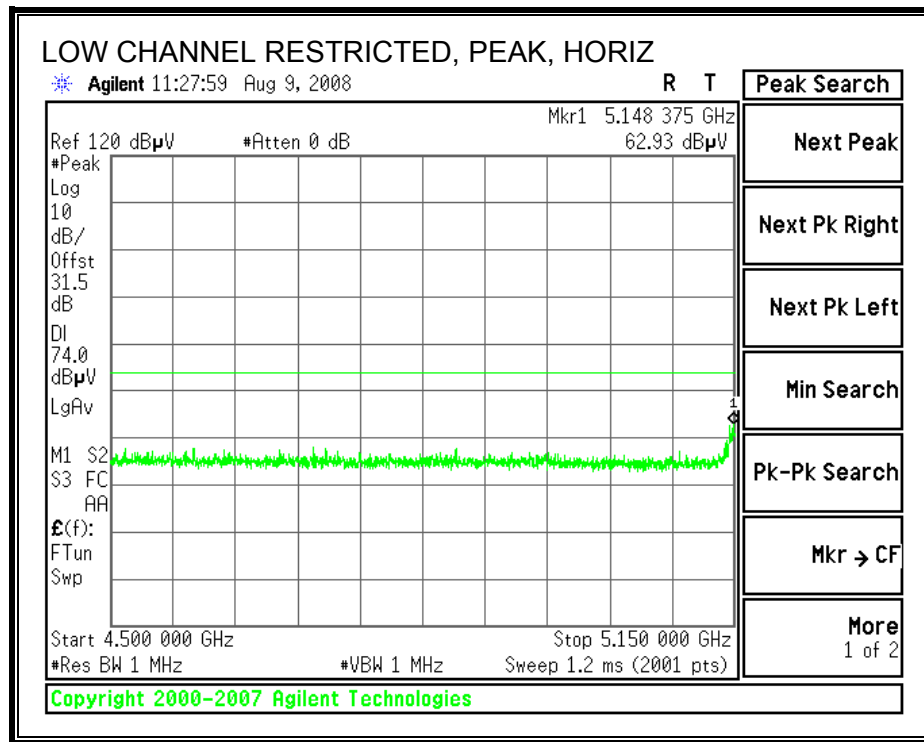


HARMONICS AND SPURIOUS EMISSIONS

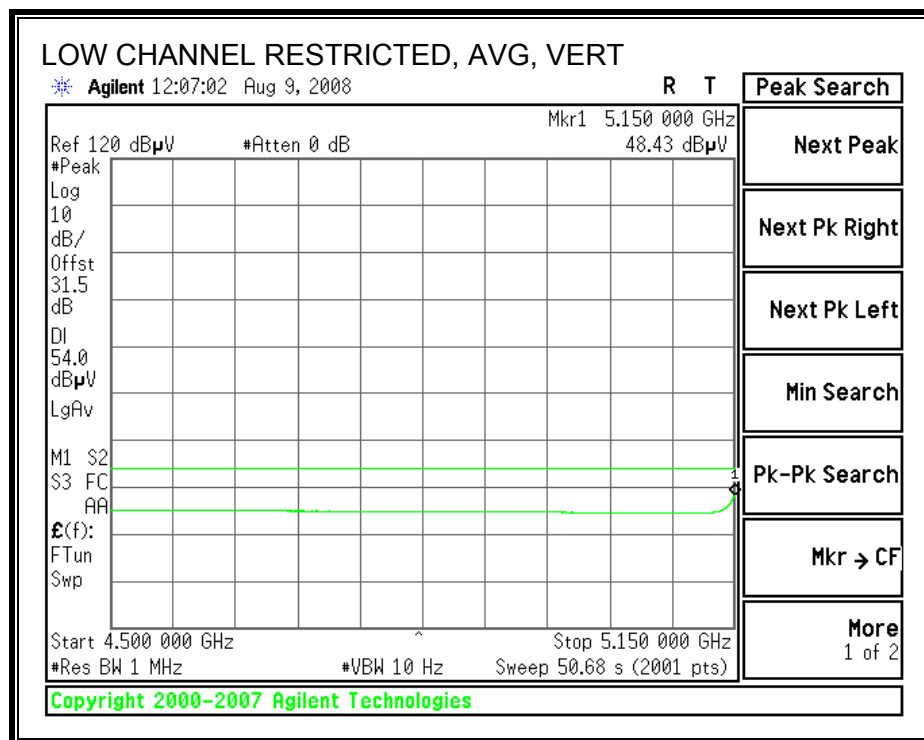
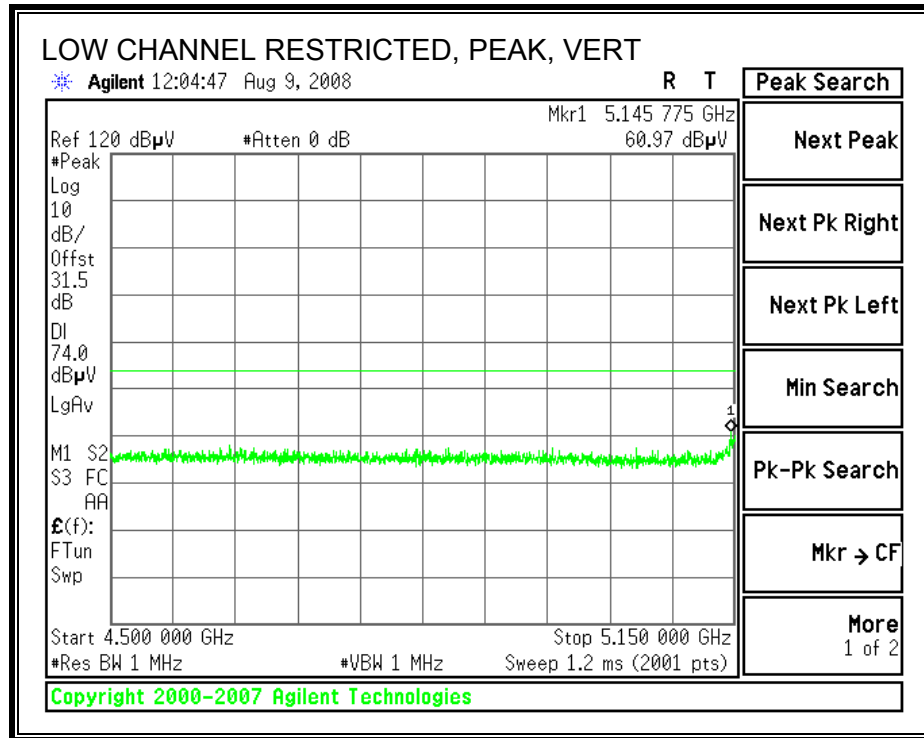
High Frequency Measurement																	
Compliance Certification Services, Fremont 5m Chamber																	
Company:		INTEL															
Project #:		08U12001															
Date:		8/10/2008															
Test Engineer:		Davin Chang															
Configuration:		EUT only															
Mode:		Tx, 5.2GHz a mode															
Test Equipment:																	
Hom 1-18GHz				Pre-amplifier 1-26GHz				Pre-amplifier 26-40GHz				Horn > 18GHz					
T60; S/N: 2238 @3m				T144 Mite q 3008A00931								T125; ARA 18-26GHz; S/N:1007					
Hi Frequency Cables																	
2 foot cable				3 foot cable				12 foot cable				HPF					
								B-5m Chamber				Reject Filter					
												R_001					
<div> <div>Peak Measurements</div> <div>RBW=VBW=1MHz</div> <div>Average Measurements</div> <div>RBW=1MHz ; VBW=10Hz</div> </div>																	
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. 5180MHz																	
15.540	3.0	34.2	23.5	38.0	12.9	-34.8	0.0	0.0	50.2	39.5	74	54	-23.8	-14.5	V		
15.540	3.0	35.5	23.3	38.0	12.9	-34.8	0.0	0.0	51.5	39.4	74	54	-22.5	-14.6	H		
Mid Ch. 5200MHz																	
15.600	3.0	35.1	23.5	38.0	12.9	-34.8	0.0	0.0	51.2	39.6	74	54	-22.8	-14.4	V		
15.600	3.0	34.7	23.6	38.0	12.9	-34.8	0.0	0.0	50.8	39.7	74	54	-23.2	-14.3	H		
High Ch. 5240MHz																	
15.720	3.0	34.7	23.7	37.9	13.0	-34.7	0.0	0.0	50.9	39.9	74	54	-23.1	-14.1	V		
15.720	3.0	34.4	23.7	37.9	13.0	-34.7	0.0	0.0	50.6	39.9	74	54	-23.4	-14.1	H		
No more signal found																	
Rev. 4.12.7																	
f	Measurement Frequency		Amp	Preamp Gain		Avg Lim	Average Field Strength Limit		Pk Lim	Peak Field Strength Limit		Avg Mar	Margin vs. Average Limit		Pk Mar	Margin vs. Peak Limit	
Dist	Distance to Antenna		D Corr	Distance Correct to 3 meters													
Read	Analyzer Reading		Avg	Average Field Strength @ 3 m													
AF	Antenna Factor		Peak	Calculated Peak Field Strength													
CL	Cable Loss		HPF	High Pass Filter													

7.2.2. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT20 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

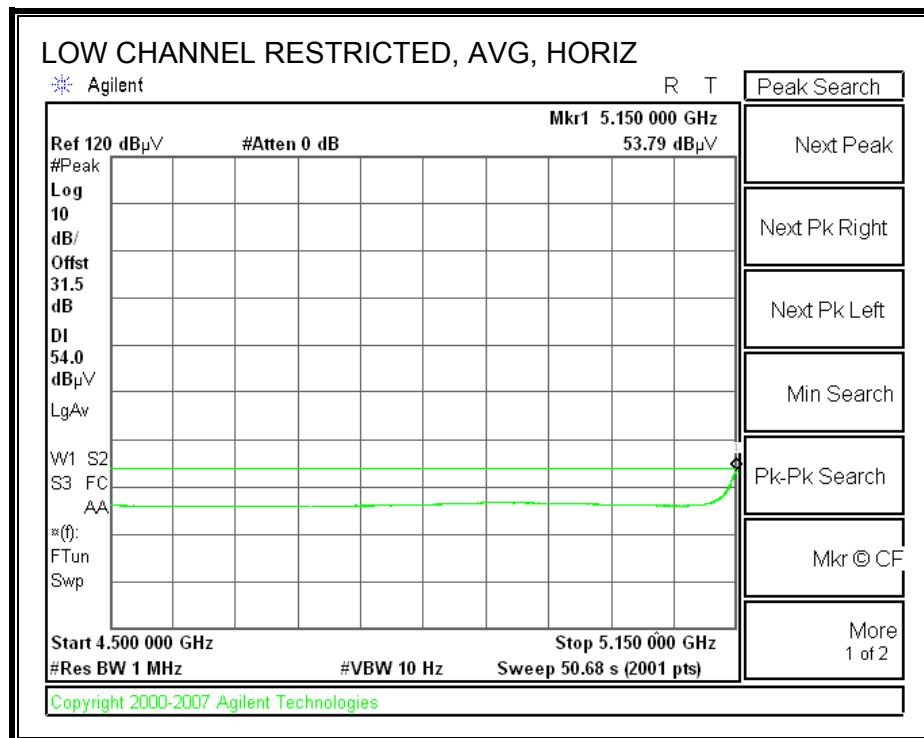
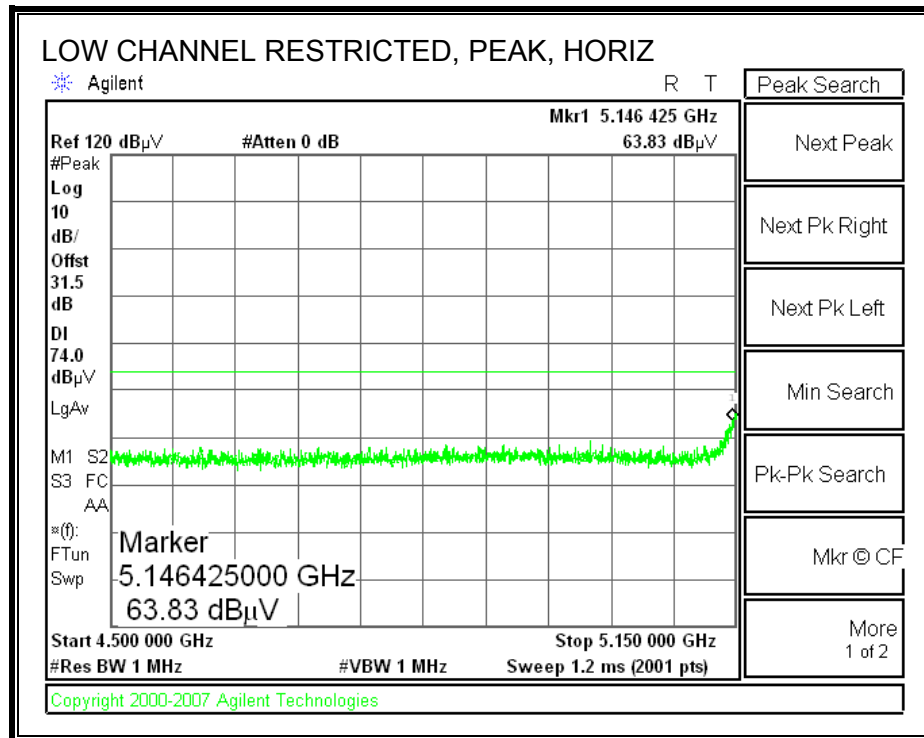


HARMONICS AND SPURIOUS EMISSIONS

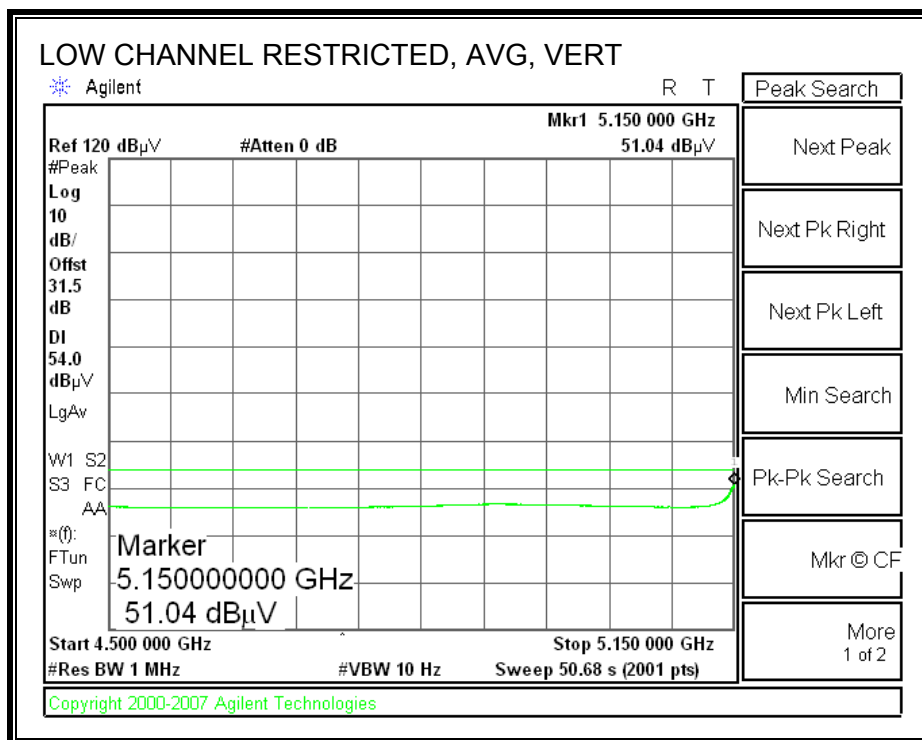
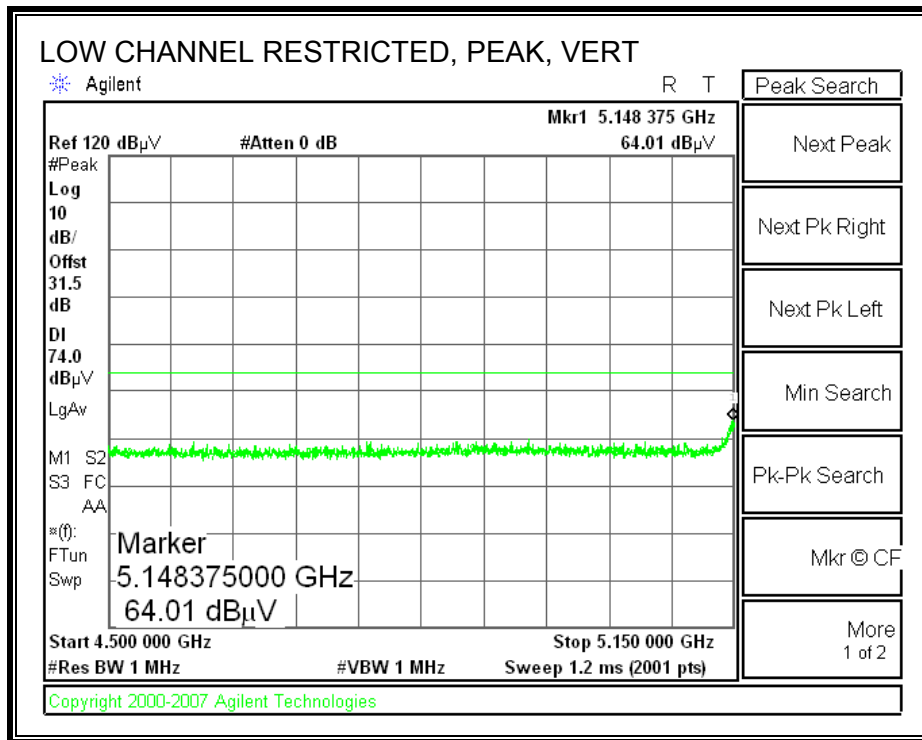
High Frequency Measurement															
Compliance Certification Services, Fremont 5m Chamber															
Company:		INTEL													
Project #:		08U12001													
Date:		8/10/2008													
Test Engineer:		Devin Chang													
Configuration:		EUT only													
Mode:		Tx, 5.3GHz HT20													
Test Equipment:															
Horn 1-18GHz				Pre-amplifier 1-26GHz				Pre-amplifier 26-40GHz				Horn > 18GHz			
T60; S/N: 2238 @3m				T144 Mite q 3008A00931								T125; ARA 18-26GHz; S/N:1007			
Hi Frequency Cables															
2 foot cable				3 foot cable				12 foot cable				HPF			
								B-5m Chamber				Reject Filter			
												R_001			
<div> <div>Peak Measurements</div> <div>RBW=VBW=1MHz</div> <div>Average Measurements</div> <div>RBW=1MHz ; VBW=10Hz</div> </div>															
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. 5260MHz															
15.780	3.0	35.4	23.9	37.9	13.0	-34.6	0.0	0.0	51.6	40.1	74	54	-22.4	-13.9	V
15.780	3.0	35.5	23.9	37.9	13.0	-34.6	0.0	0.0	51.8	40.1	74	54	-22.2	-13.9	H
Mid Ch. 5280MHz															
15.840	3.0	35.2	23.3	37.9	13.0	-34.6	0.0	0.0	51.5	39.6	74	54	-22.5	-14.4	V
15.840	3.0	35.5	23.7	37.9	13.0	-34.6	0.0	0.0	51.8	40.0	74	54	-22.2	-14.0	H
High Ch. 5320MHz															
10.640	3.0	46.6	34.5	37.3	11.0	-36.6	0.0	0.0	58.3	46.3	74	54	-15.7	-7.7	V
15.960	3.0	35.1	23.4	37.8	13.1	-34.5	0.0	0.0	51.5	39.8	74	54	-22.5	-14.2	V
10.640	3.0	44.2	31.3	37.3	11.0	-36.6	0.0	0.0	55.9	43.0	74	54	-18.1	-11.0	H
15.960	3.0	35.6	23.5	37.8	13.1	-34.5	0.0	0.0	52.0	39.9	74	54	-22.0	-14.1	H
No more signal found															
Rev. 4.12.7															
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. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT40 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

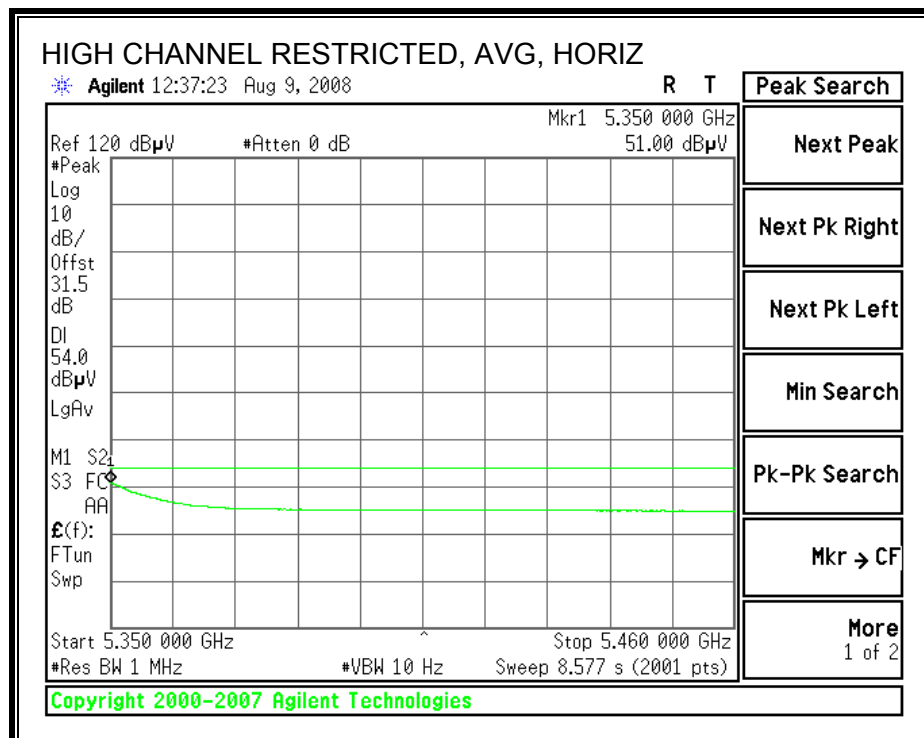
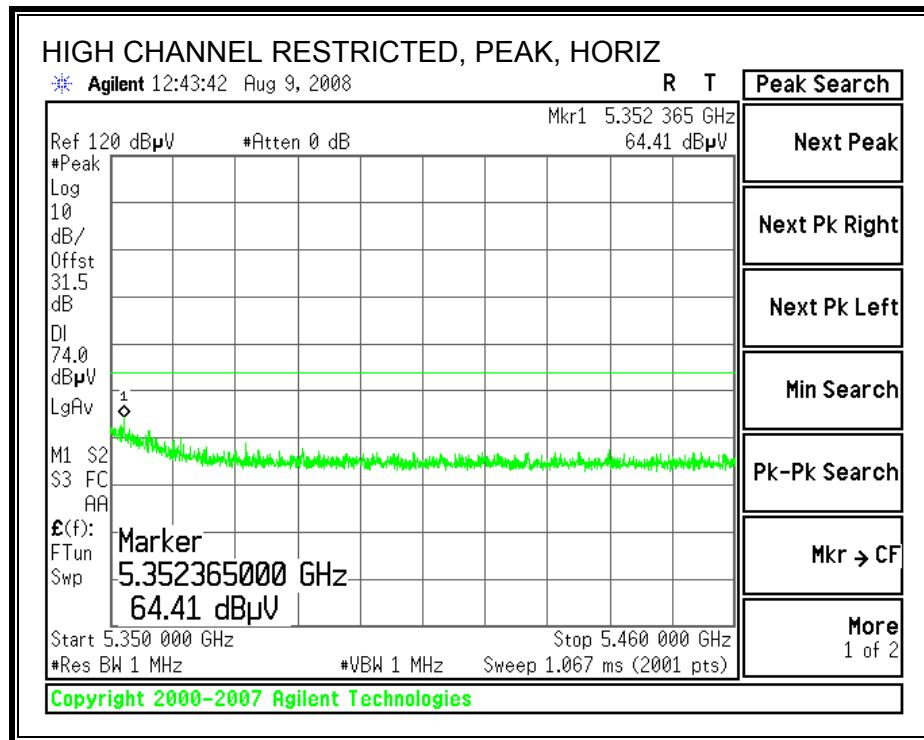


HARMONICS AND SPURIOUS EMISSIONS

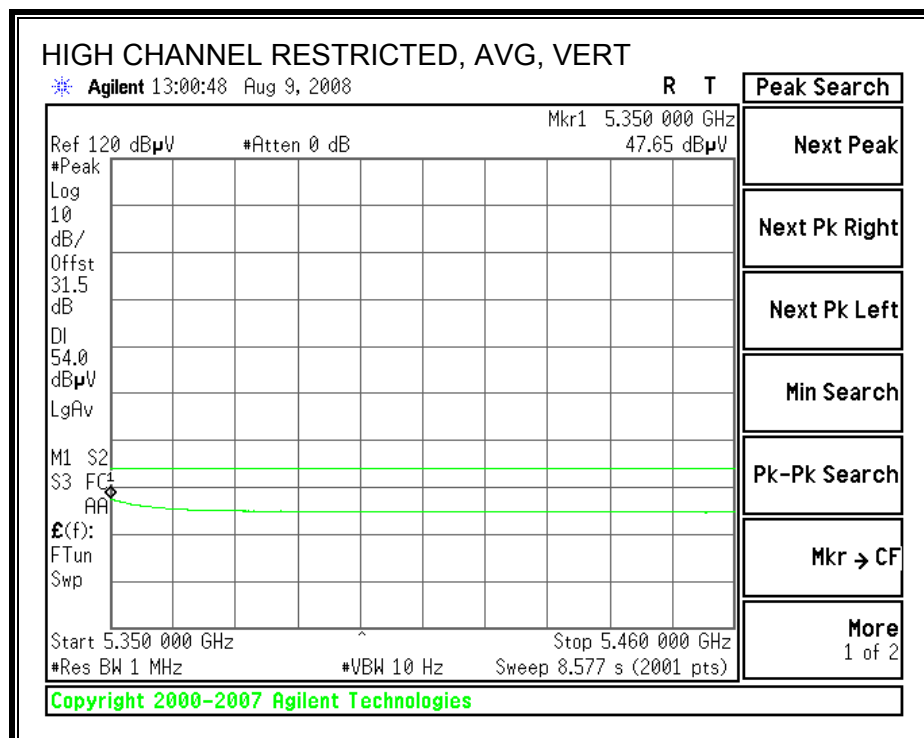
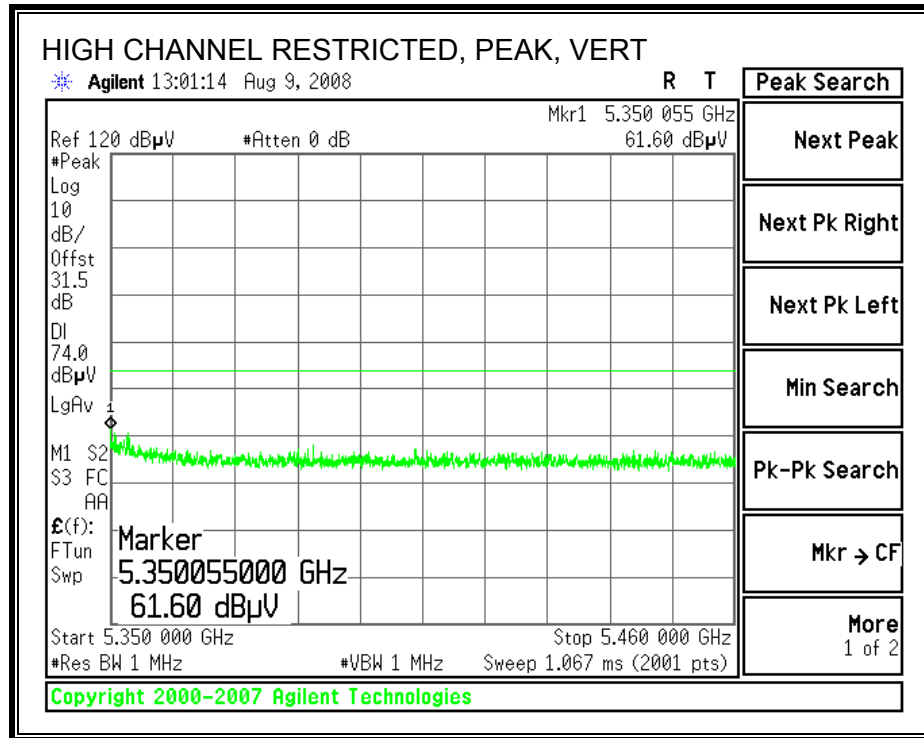
High Frequency Measurement															
Compliance Certification Services, Fremont 5m Chamber															
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Test Engineer:		Devin Chang													
Configuration:		EUT only													
Mode:		Tx, 5.2GHz HT40													
Test Equipment:															
Hom 1-18GHz				Pre-amplifier 1-26GHz				Pre-amplifier 26-40GHz				Horn > 18GHz			
T60; S/N: 2238 @3m				T144 Miteq 3008A00931								T125; ARA 18-26GHz; S/N:1007			
Hi Frequency Cables															
2 foot cable				3 foot cable				12 foot cable				HPF			
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												R_001			
<div> <div>Peak Measurements</div> <div>RBW=VBW=1MHz</div> <div>Average Measurements</div> <div>RBW=1MHz ; VBW=10Hz</div> </div>															
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. 5190MHz															
15.570	3.0	36.0	23.0	38.0	12.9	-34.8	0.0	0.0	52.0	39.1	74	54	-22.0	-14.9	V
15.570	3.0	35.3	24.1	38.0	12.9	-34.8	0.0	0.0	51.4	40.1	74	54	-22.6	-13.9	H
High Ch. 5230MHz															
15.690	3.0	35.9	24.5	37.9	13.0	-34.7	0.0	0.0	52.1	40.7	74	54	-21.9	-13.3	V
15.690	3.0	35.5	24.5	37.9	13.0	-34.7	0.0	0.0	51.7	40.7	74	54	-22.3	-13.3	H
No more signal found															
Rev. 4.12.7															
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 IN THE 5.3 GHz BAND

7.3.1. TRANSMITTER ABOVE 1 GHz FOR 802.11a LEGACY MODE RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



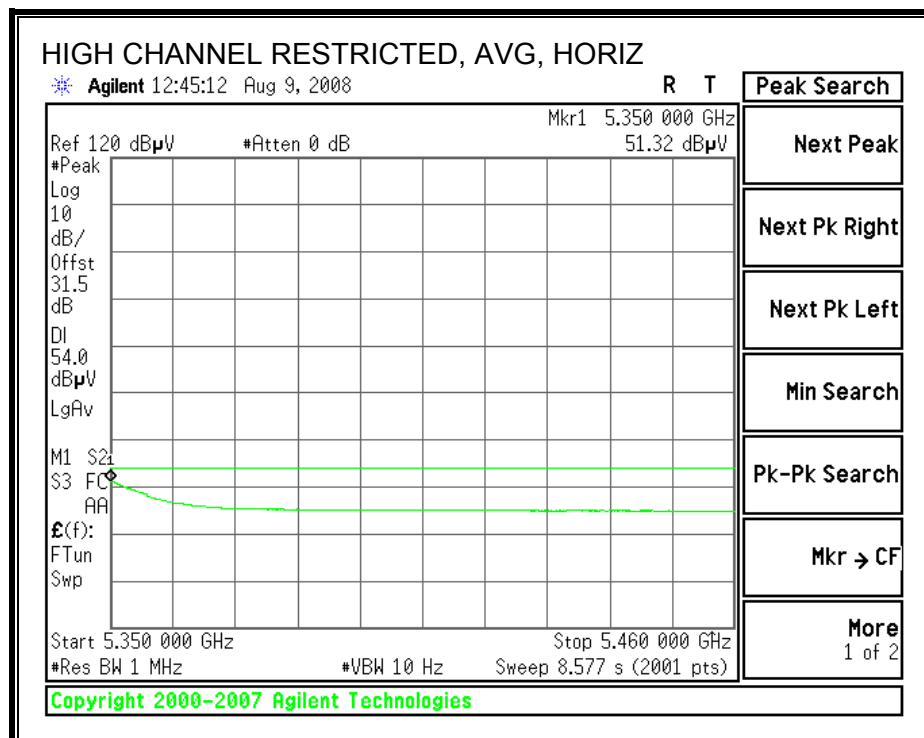
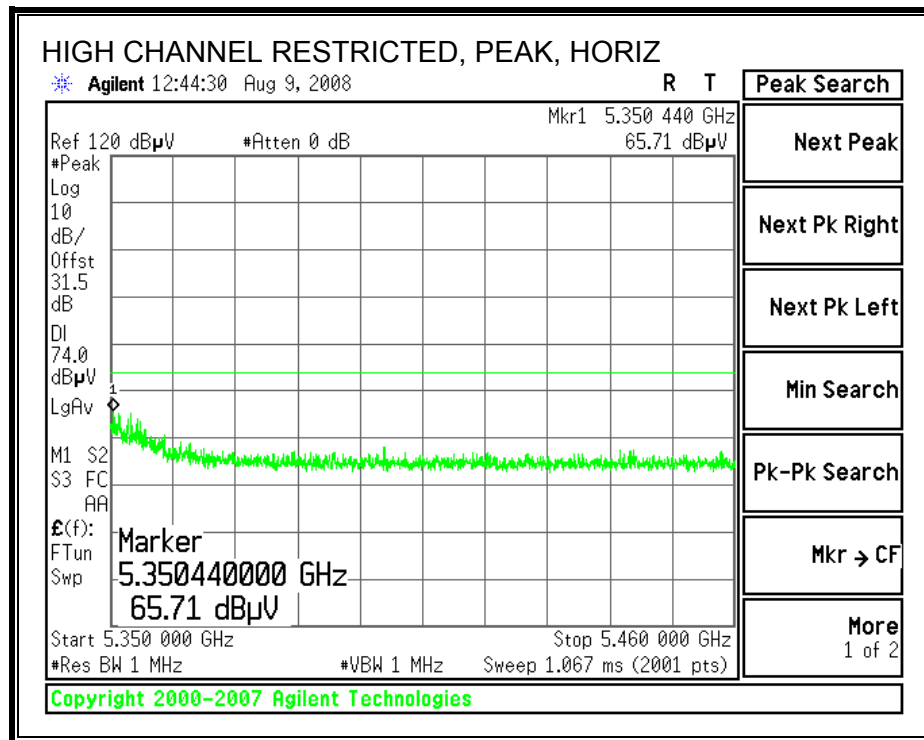
RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



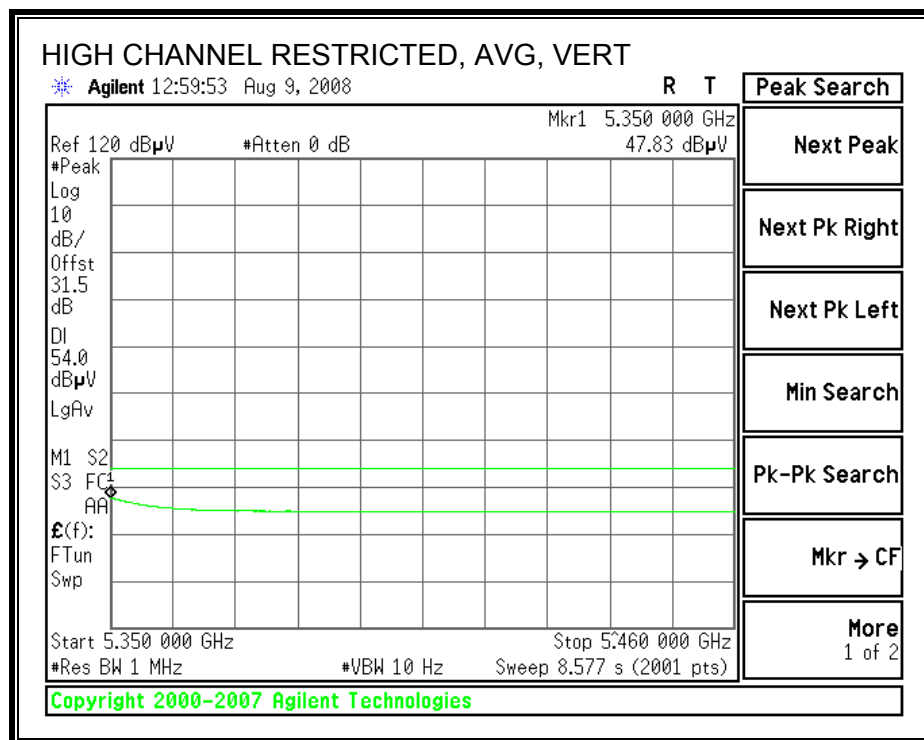
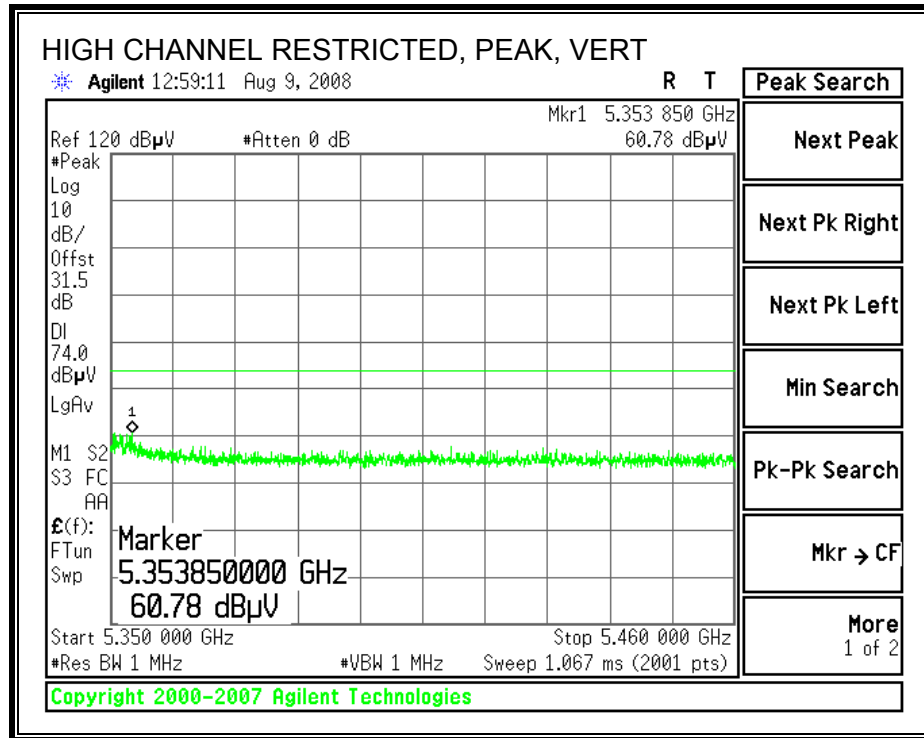
HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement																	
Compliance Certification Services, Fremont 5m Chamber																	
Company:		INTEL															
Project #:		08U12001															
Date:		8/10/2008															
Test Engineer:		Devin Chang															
Configuration:		EUT only															
Mode:		Tx, 5.3GHz a mode															
Test Equipment:																	
Hom 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz								
T60; S/N: 2238 @3m			T144 Miteq 3008A00931						T125; ARA 18-26GHz; S/N:1007								
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		
						B-5m Chamber						R_001					
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. 5260MHz																	
15.780	3.0	36.0	24.0	37.9	13.0	-34.6	0.0	0.0	52.3	40.2	74	54	-21.7	-13.8	V		
15.780	3.0	36.3	23.5	37.9	13.0	-34.6	0.0	0.0	52.5	39.7	74	54	-21.5	-14.3	H		
Mid Ch. 5280MHz																	
15.840	3.0	35.8	23.8	37.9	13.0	-34.6	0.0	0.0	52.1	40.1	74	54	-21.9	-13.9	V		
15.840	3.0	35.1	23.8	37.9	13.0	-34.6	0.0	0.0	51.4	40.1	74	54	-22.6	-13.9	H		
High Ch. 5320MHz																	
10.640	3.0	47.9	35.8	37.3	11.0	-36.6	0.0	0.0	59.6	47.5	74	54	-14.4	-6.5	V		
15.960	3.0	35.2	23.5	37.8	13.1	-34.5	0.0	0.0	51.6	39.9	74	54	-22.4	-14.1	V		
10.640	3.0	43.9	32.2	37.3	11.0	-36.6	0.0	0.0	55.6	43.9	74	54	-18.4	-10.1	H		
15.960	3.0	35.7	22.8	37.8	13.1	-34.5	0.0	0.0	52.1	39.2	74	54	-21.9	-14.8	H		
No more signal found																	
Rev. 4.12.7																	
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. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT20 MODE RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



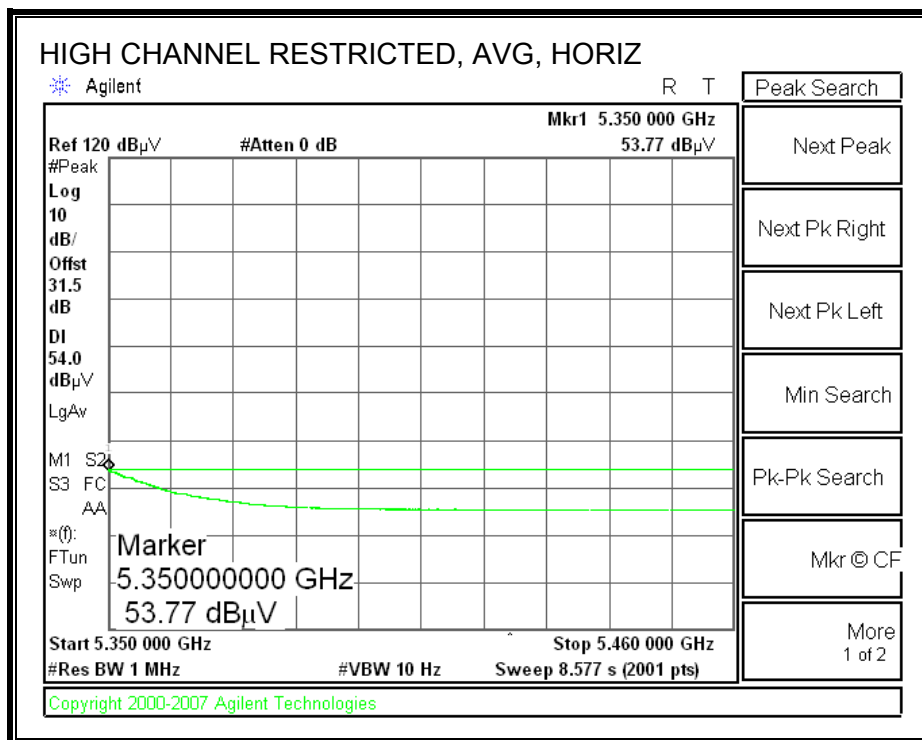
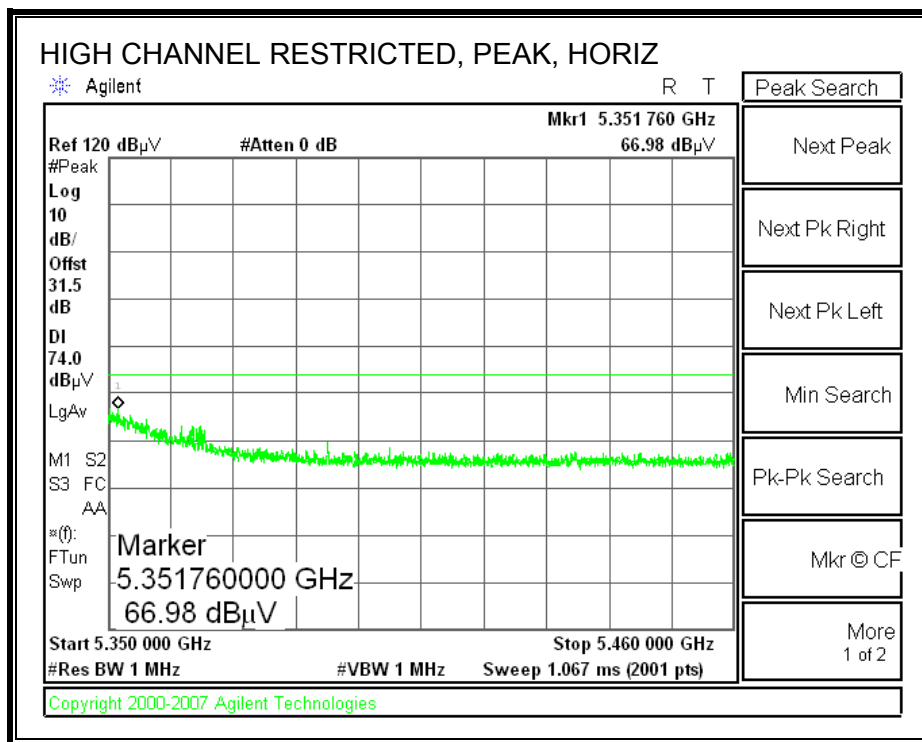
RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



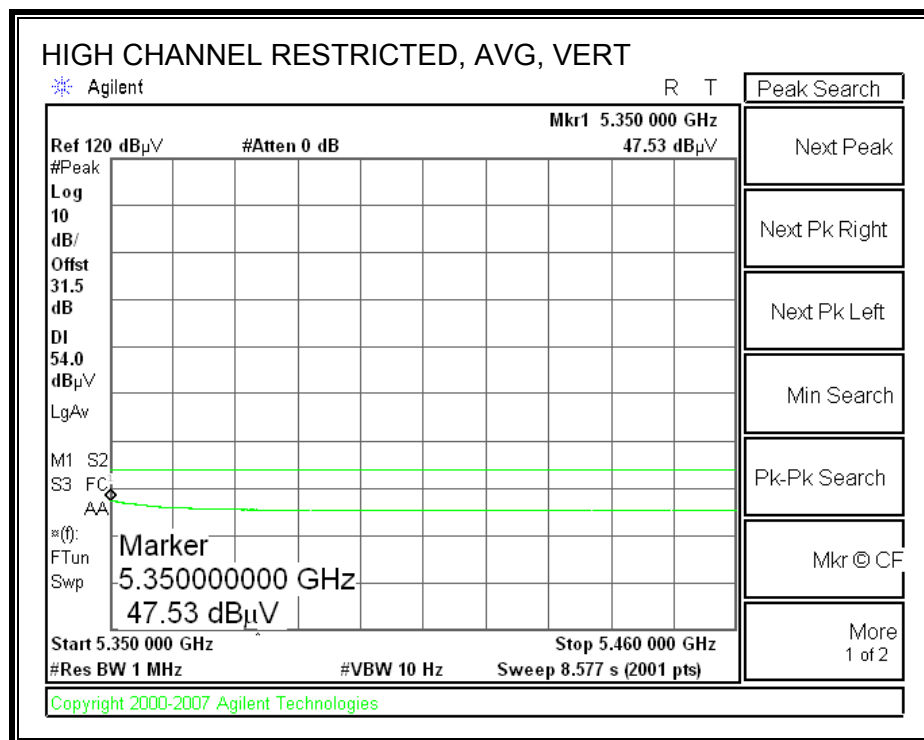
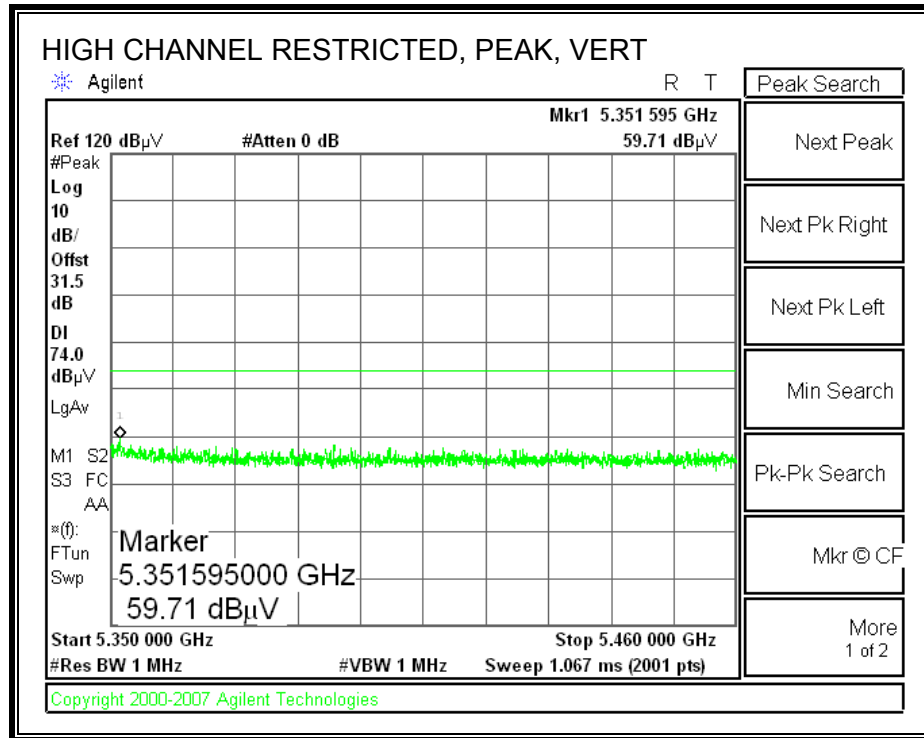
HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement															
Compliance Certification Services, Fremont 5m Chamber															
Company:		INTEL													
Project #:		08U12001													
Date:		8/10/2008													
Test Engineer:		Devin Chang													
Configuration:		EUT only													
Mode:		Tx, 5.3GHz HT20													
Test Equipment:															
Hom 1-18GHz T60; S/N: 2238 @3m				Pre-amplifier 1-26GHz T144 Miteq 3008A00931				Pre-amplifier 26-40GHz				Horn > 18GHz T125; ARA 18-26GHz; S/N:1007			
Hi Frequency Cables															
2 foot cable				3 foot cable				12 foot cable B-5m Chamber				HPF		Reject Filter R_001	
<div style="display: flex; justify-content: space-between;"> <div> Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz </div> </div>															
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. 5260MHz															
15.780	3.0	35.4	23.9	37.9	13.0	-34.6	0.0	0.0	51.6	40.1	74	54	-22.4	-13.9	V
15.780	3.0	35.5	23.9	37.9	13.0	-34.6	0.0	0.0	51.8	40.1	74	54	-22.2	-13.9	H
Mid Ch. 5280MHz															
15.840	3.0	35.2	23.3	37.9	13.0	-34.6	0.0	0.0	51.5	39.6	74	54	-22.5	-14.4	V
15.840	3.0	35.5	23.7	37.9	13.0	-34.6	0.0	0.0	51.8	40.0	74	54	-22.2	-14.0	H
High Ch. 5320MHz															
10.640	3.0	46.6	34.5	37.3	11.0	-36.6	0.0	0.0	58.3	46.3	74	54	-15.7	-7.7	V
15.960	3.0	35.1	23.4	37.8	13.1	-34.5	0.0	0.0	51.5	39.8	74	54	-22.5	-14.2	V
10.640	3.0	44.2	31.3	37.3	11.0	-36.6	0.0	0.0	55.9	43.0	74	54	-18.1	-11.0	H
15.960	3.0	35.6	23.5	37.8	13.1	-34.5	0.0	0.0	52.0	39.9	74	54	-22.0	-14.1	H
No more signal found															
Rev. 4.12.7															
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. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT40 MODE RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

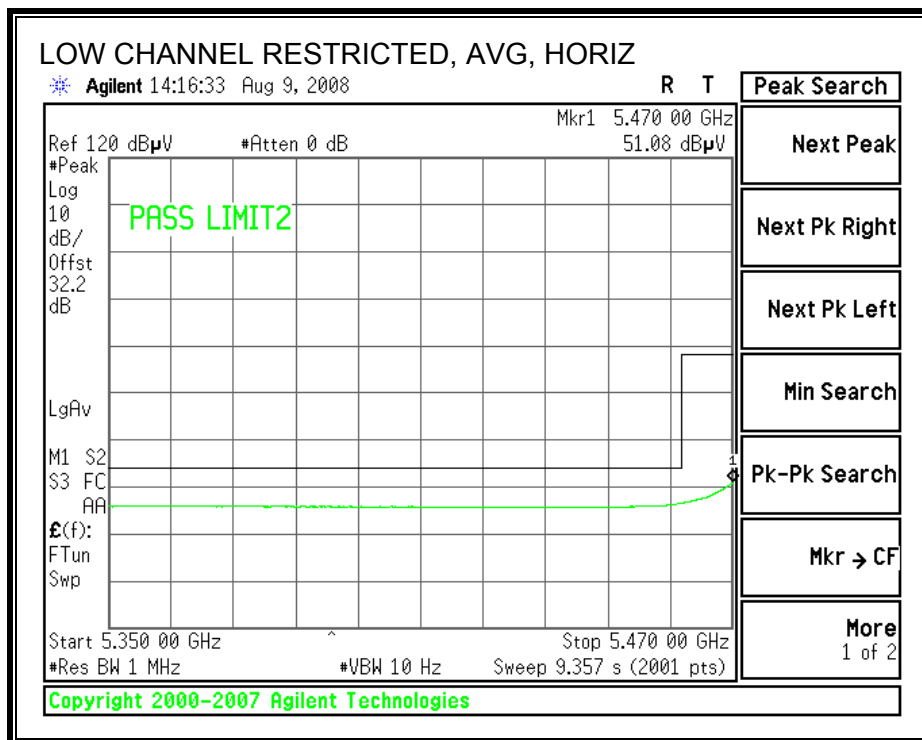
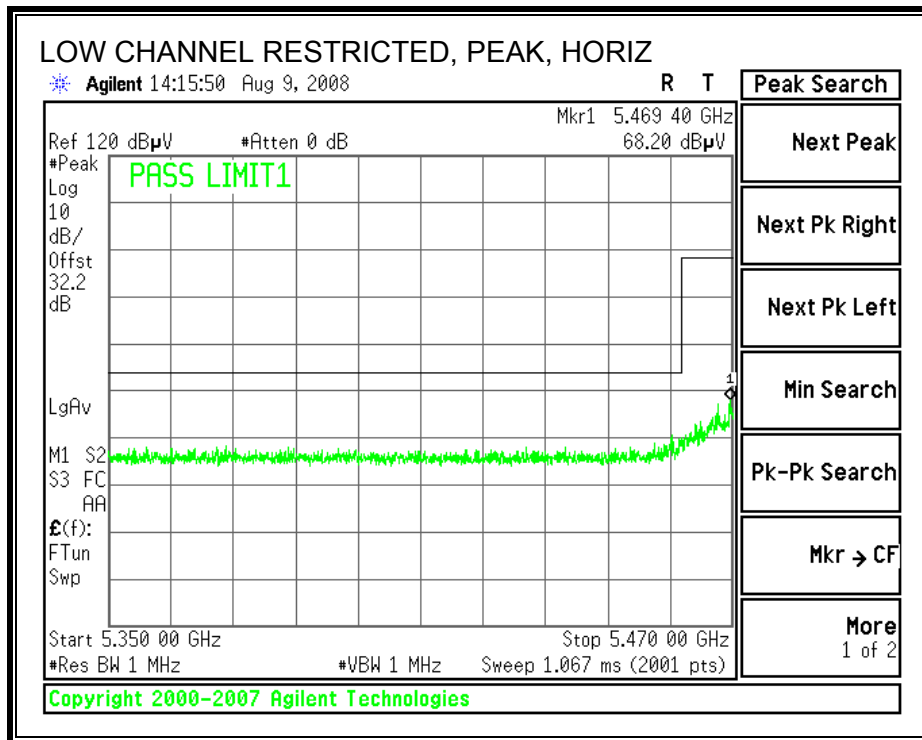


HARMONICS AND SPURIOUS EMISSIONS

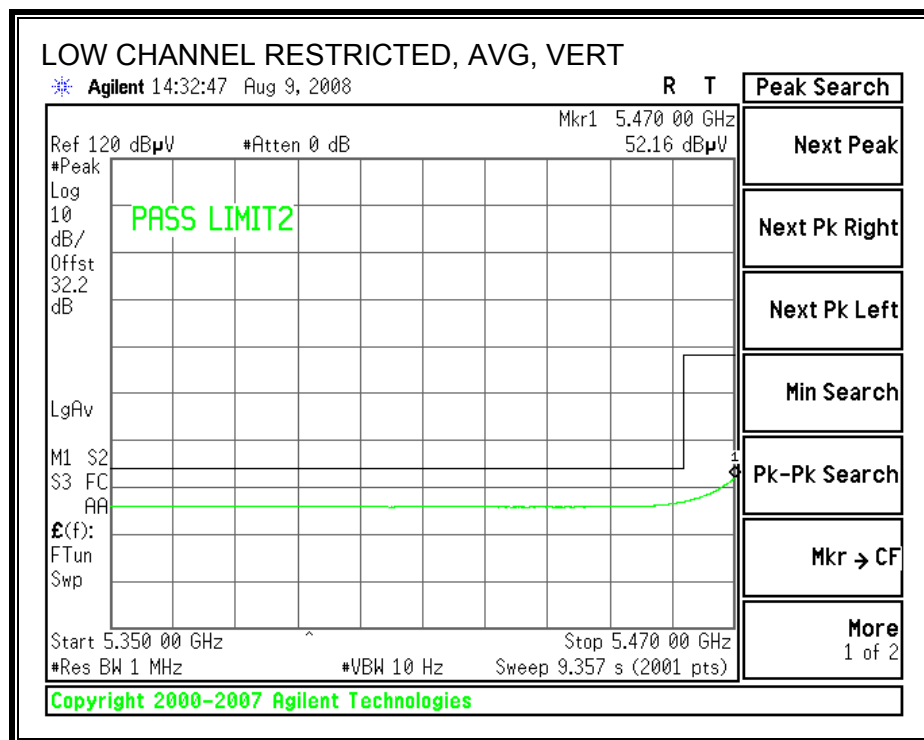
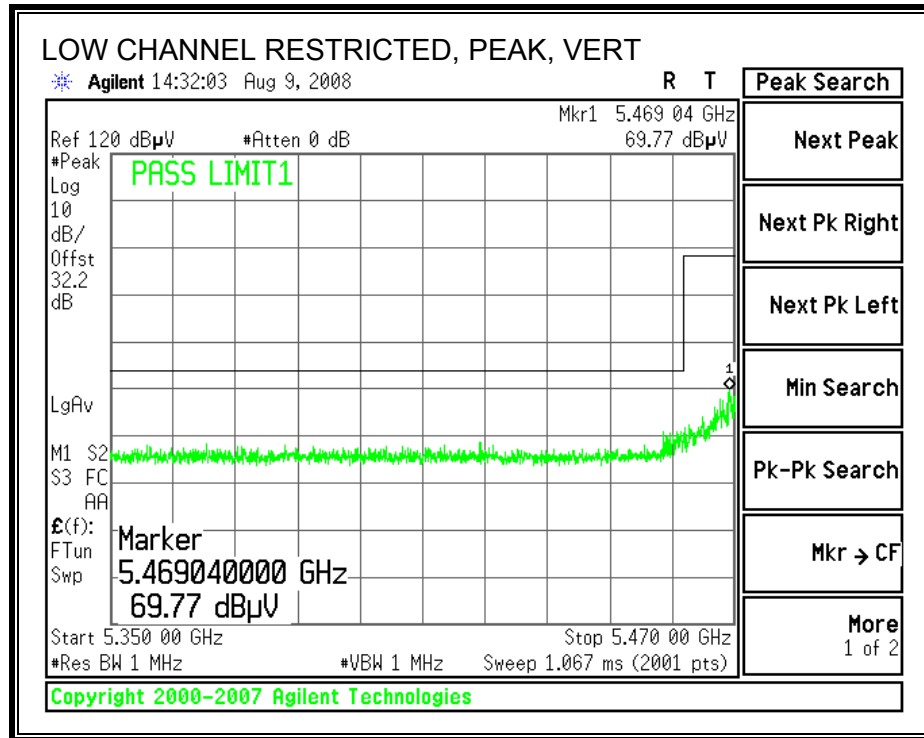
High Frequency Measurement															
Compliance Certification Services, Fremont 5m Chamber															
Company:		INTEL													
Project #:		08U12001													
Date:		8/10/2008													
Test Engineer:		Devin Chang													
Configuration:		EUT only													
Mode:		Tx, 5.3GHz HT40													
Test Equipment:															
Hom 1-18GHz				Pre-amplifier 1-26GHz				Pre-amplifier 26-40GHz				Horn > 18GHz			
T60; S/N: 2238 @3m				T144 Miteq 3008A00931								T125; ARA 18-26GHz; S/N:1007			
Hi Frequency Cables															
2 foot cable				3 foot cable				12 foot cable				HPF			
								B-5m Chamber				Reject Filter			
												R_001			
<div> <div>Peak Measurements</div> <div>RBW=VBW=1MHz</div> <div>Average Measurements</div> <div>RBW=1MHz ; VBW=10Hz</div> </div>															
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. 5270MHz															
15.810	3.0	35.5	23.9	37.9	13.0	-34.6	0.0	0.0	51.8	40.2	74	54	-22.2	-13.8	V
15.810	3.0	35.4	24.0	37.9	13.0	-34.6	0.0	0.0	51.6	40.3	74	54	-22.4	-13.7	H
High Ch. 5310MHz															
10.620	3.0	43.0	31.4	37.4	10.9	-36.6	0.0	0.0	54.7	43.1	74	54	-19.3	-10.9	V
15.930	3.0	35.9	23.6	37.8	13.1	-34.5	0.0	0.0	52.3	40.0	74	54	-21.7	-14.0	V
10.620	3.0	40.8	29.3	37.4	10.9	-36.6	0.0	0.0	52.5	41.0	74	54	-21.5	-13.0	H
15.930	3.0	35.5	23.6	37.8	13.1	-34.5	0.0	0.0	51.9	39.9	74	54	-22.1	-14.1	H
No more signal found															
Rev. 4.12.7															
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 IN THE 5.6 GHz BAND

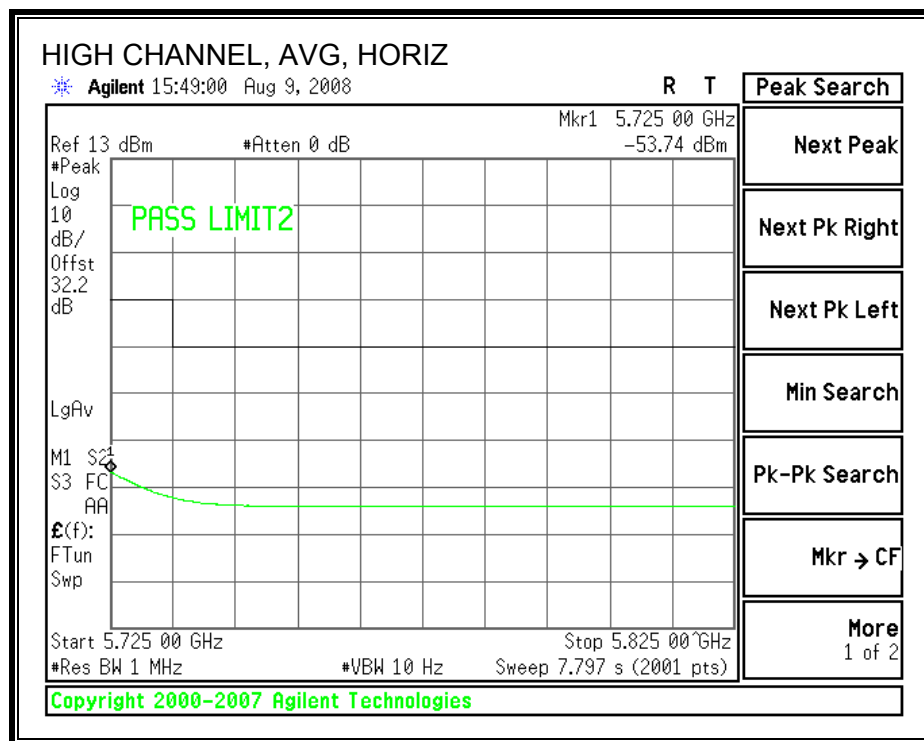
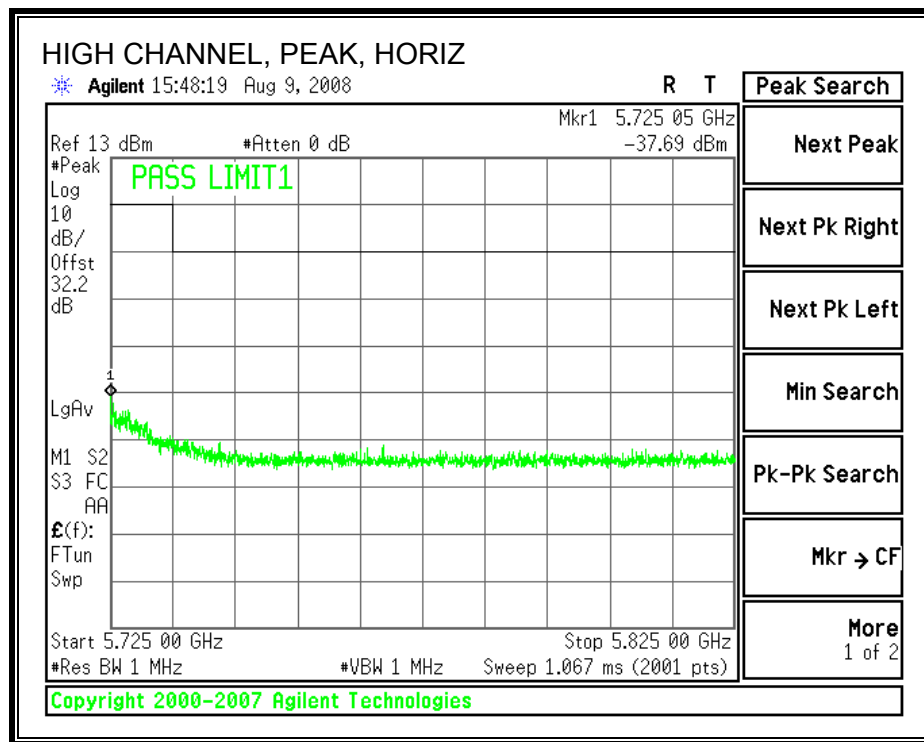
7.4.1. TRANSMITTER ABOVE 1 GHz FOR 802.11a LEGACY MODE RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



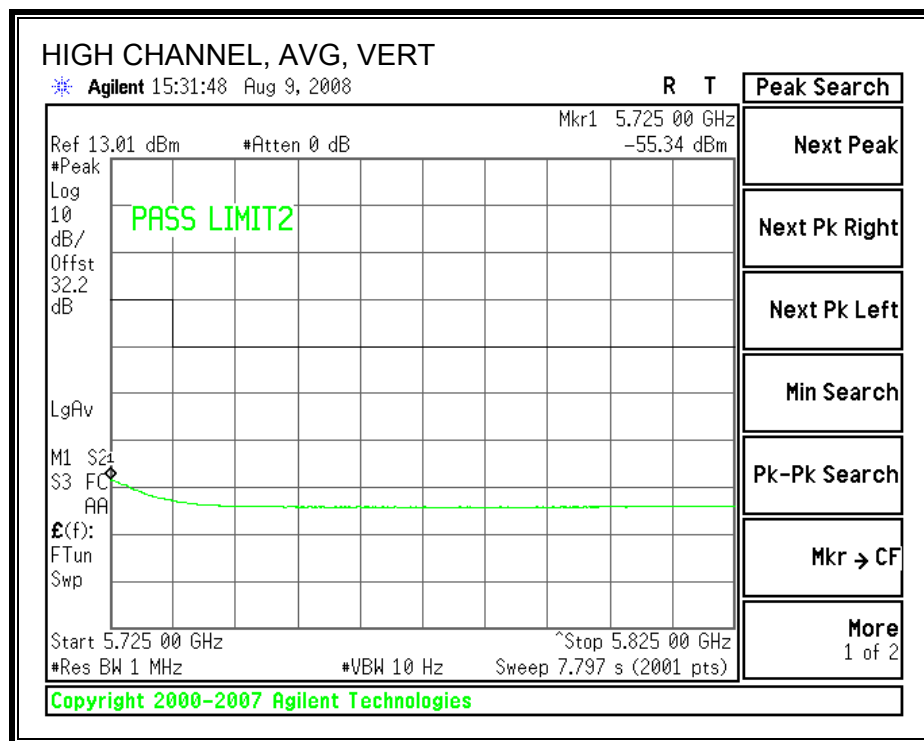
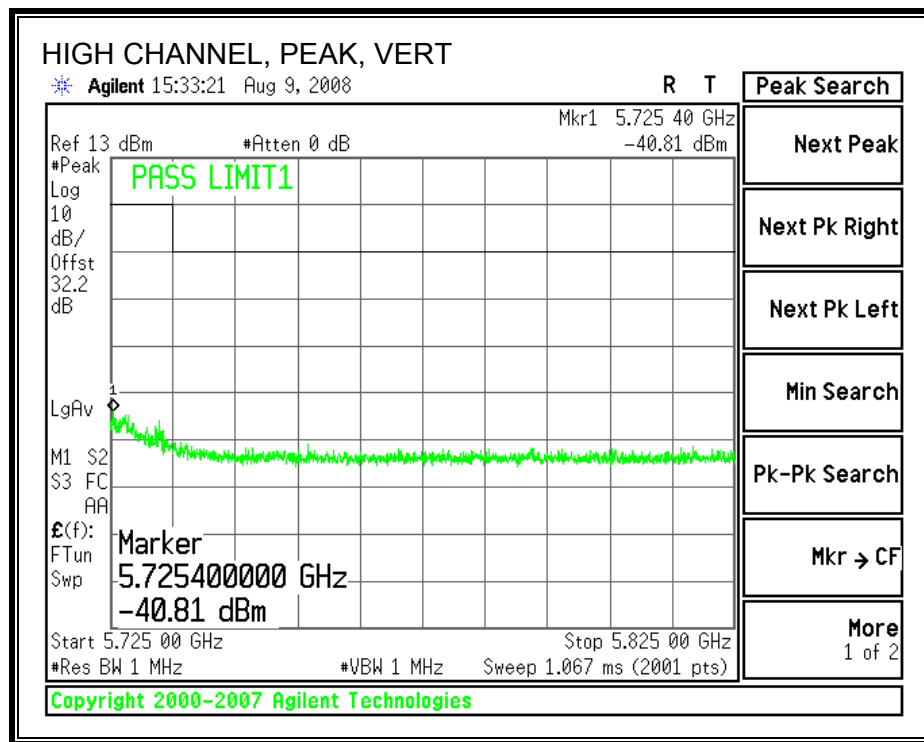
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

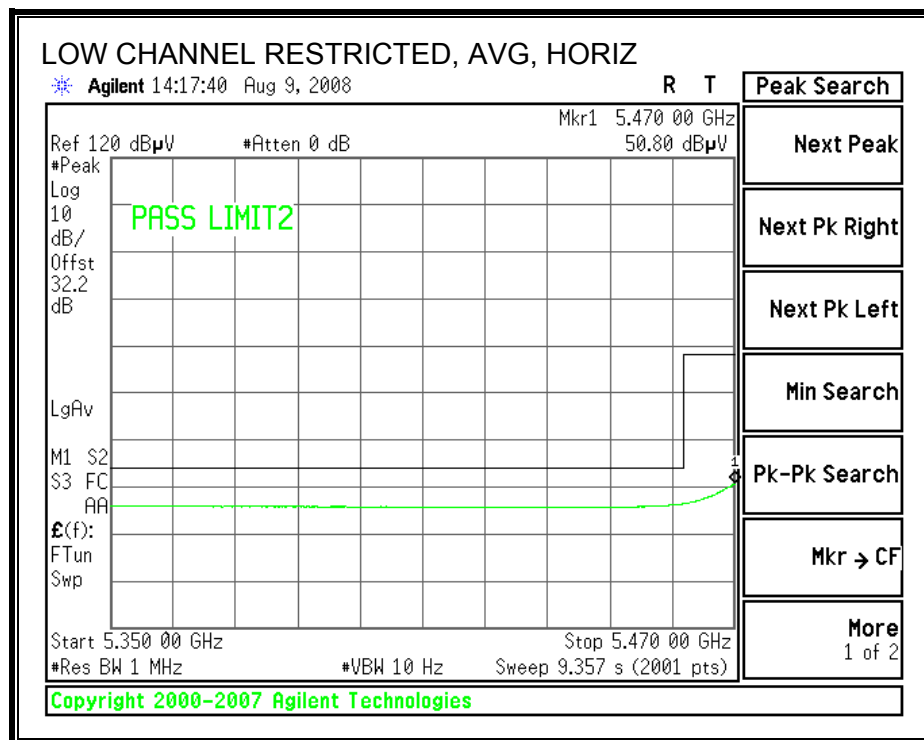
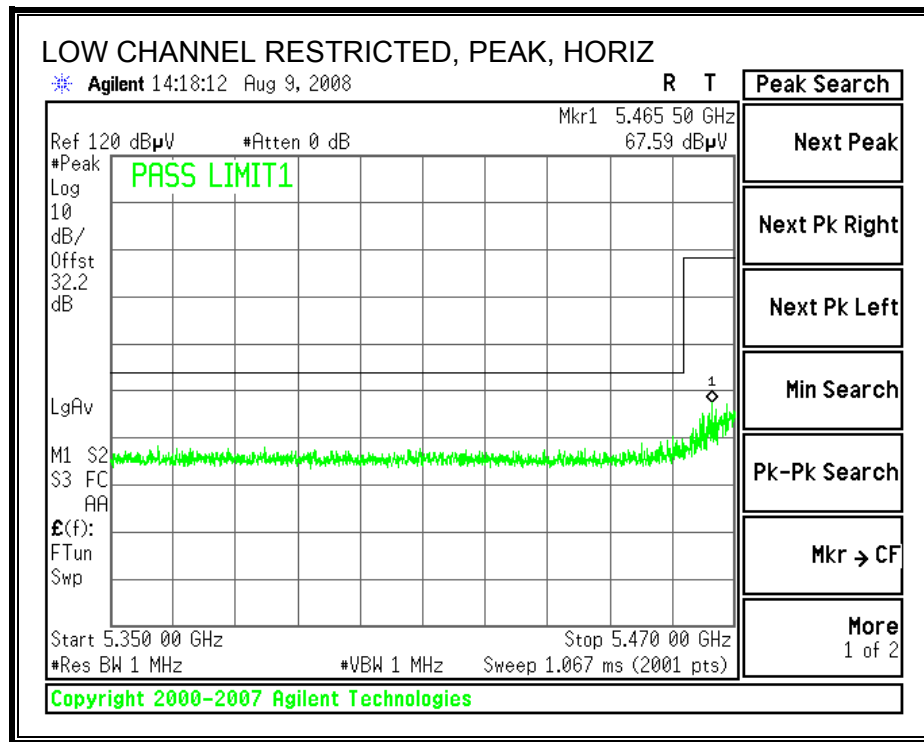


HARMONICS AND SPURIOUS EMISSIONS

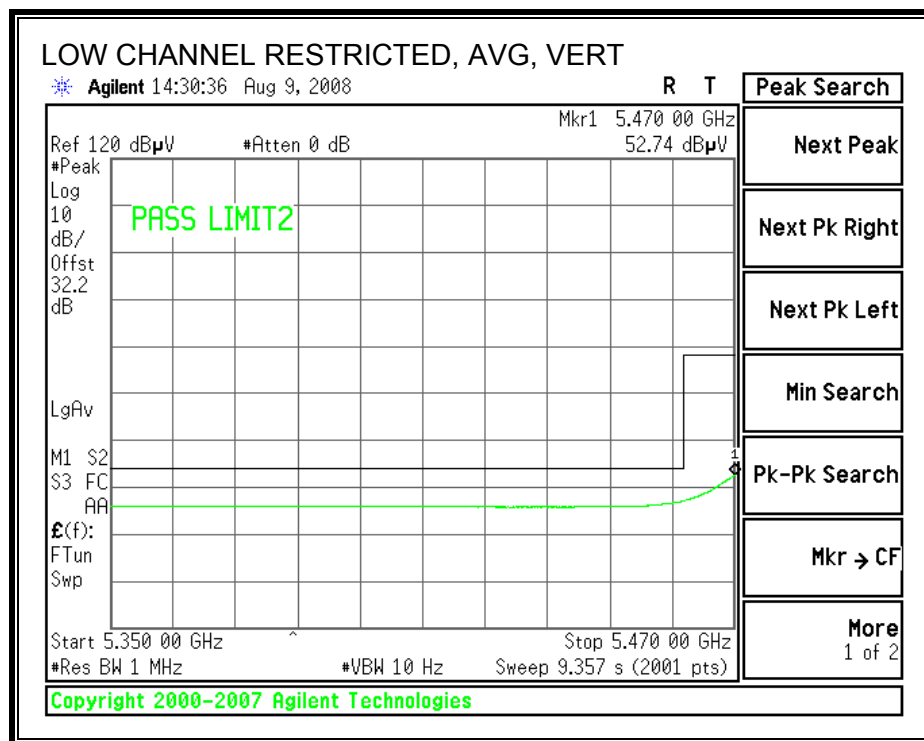
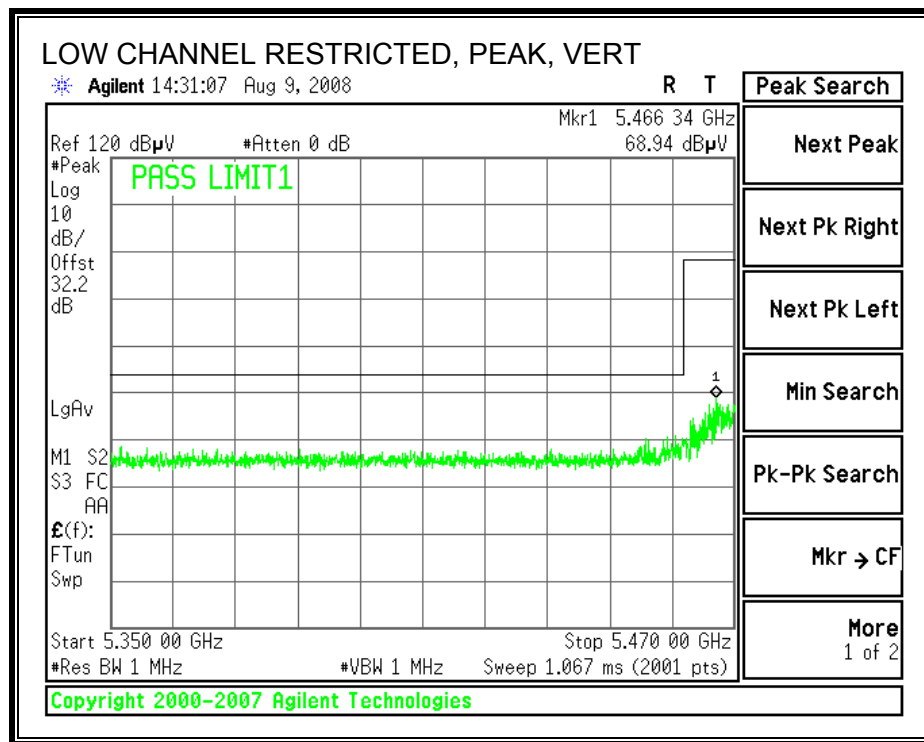
High Frequency Measurement																	
Compliance Certification Services, Fremont 5m Chamber																	
Company:		INTEL															
Project #:		08U12001															
Date:		8/10/2008															
Test Engineer:		Devin Chang															
Configuration:		EUT only															
Mode:		Tx, 5.5GHz a mode															
Test Equipment:																	
Hom 1-18GHz				Pre-amplifier 1-26GHz				Pre-amplifier 26-40GHz				Horn > 18GHz					
T60; S/N: 2238 @3m				T144 Miteq 3008A00931								T125; ARA 18-26GHz; S/N:1007					
Hi Frequency Cables																	
2 foot cable				3 foot cable				12 foot cable				HPF					
								B-5m Chamber				Reject Filter					
												R_001					
<div> <div>Peak Measurements</div> <div>RBW=VBW=1MHz</div> <div>Average Measurements</div> <div>RBW=1MHz ; VBW=10Hz</div> </div>																	
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. 5500MHz																	
11.000	3.0	47.6	35.3	37.3	11.3	-36.3	0.0	0.0	60.0	47.7	74	54	-14.0	-6.3	V		
11.000	3.0	40.2	28.1	37.3	11.3	-36.3	0.0	0.0	52.6	40.5	74	54	-21.4	-13.5	H		
Mid Ch. 5600MHz																	
11.200	3.0	44.7	32.0	37.3	11.5	-36.1	0.0	0.0	57.5	44.8	74	54	-16.5	-9.2	V		
11.200	3.0	37.2	26.0	37.3	11.5	-36.1	0.0	0.0	50.0	38.7	74	54	-24.0	-15.3	H		
High Ch. 5700MHz																	
11.400	3.0	42.2	30.3	37.4	11.8	-35.9	0.0	0.0	55.4	43.5	74	54	-18.6	-10.5	V		
11.400	3.0	38.2	26.4	37.4	11.8	-35.9	0.0	0.0	51.4	39.6	74	54	-22.6	-14.4	H		
No more signal found																	
Rev. 4.12.7																	
f	Measurement Frequency		Amp	Preamp Gain		Avg Lim	Average Field Strength Limit		Pk Lim	Peak Field Strength Limit		Avg Mar	Margin vs. Average Limit		Pk Mar	Margin vs. Peak Limit	
Dist	Distance to Antenna		D Corr	Distance Correct to 3 meters													
Read	Analyzer Reading		Avg	Average Field Strength @ 3 m													
AF	Antenna Factor		Peak	Calculated Peak Field Strength													
CL	Cable Loss		HPF	High Pass Filter													

7.4.2. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT20 MODE

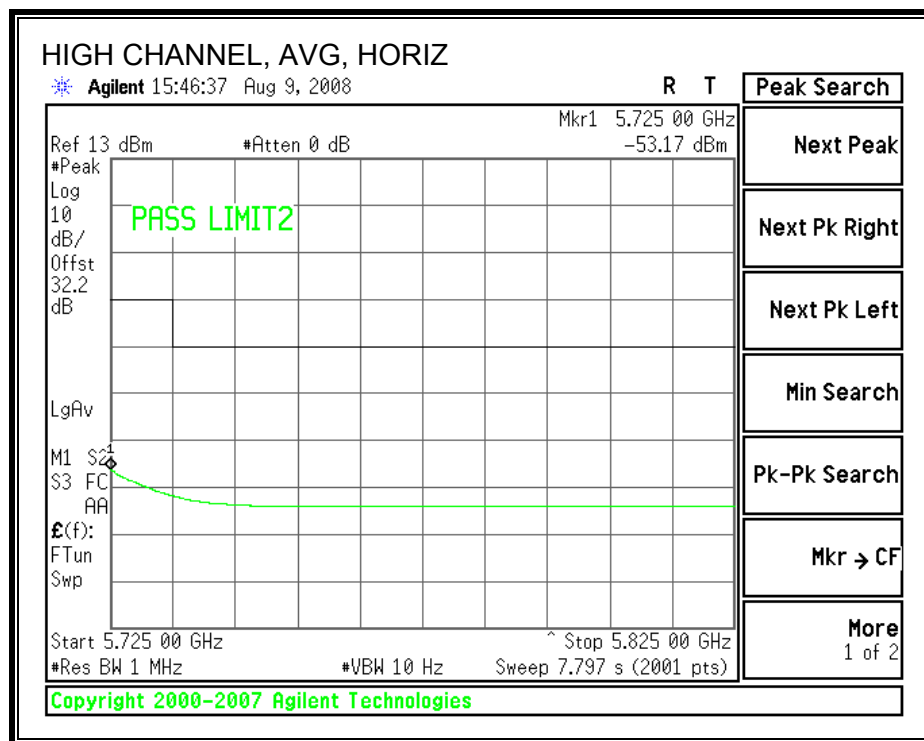
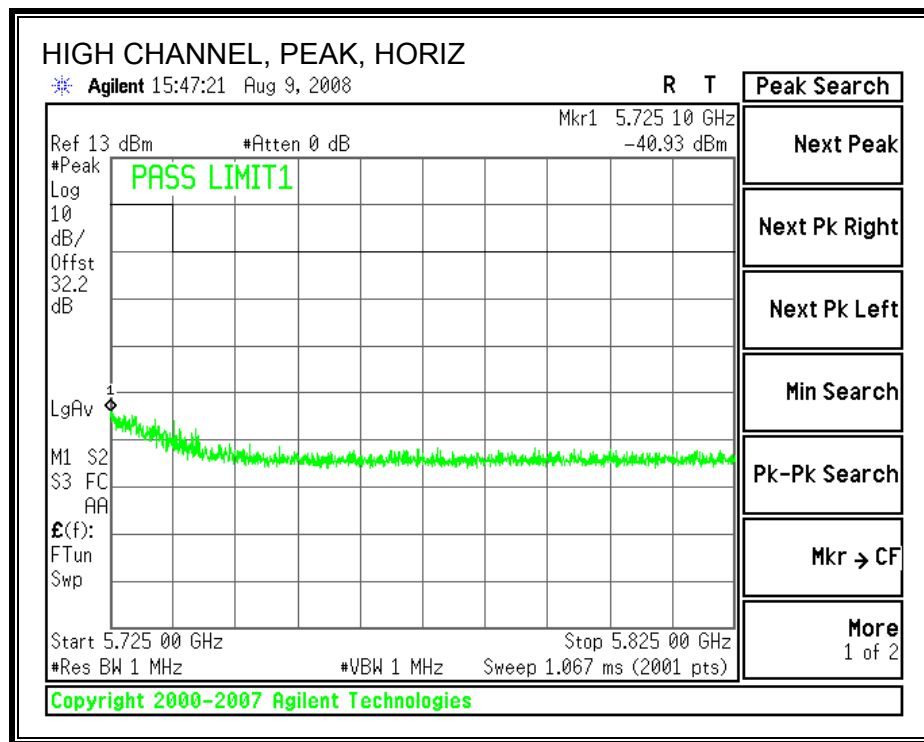
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



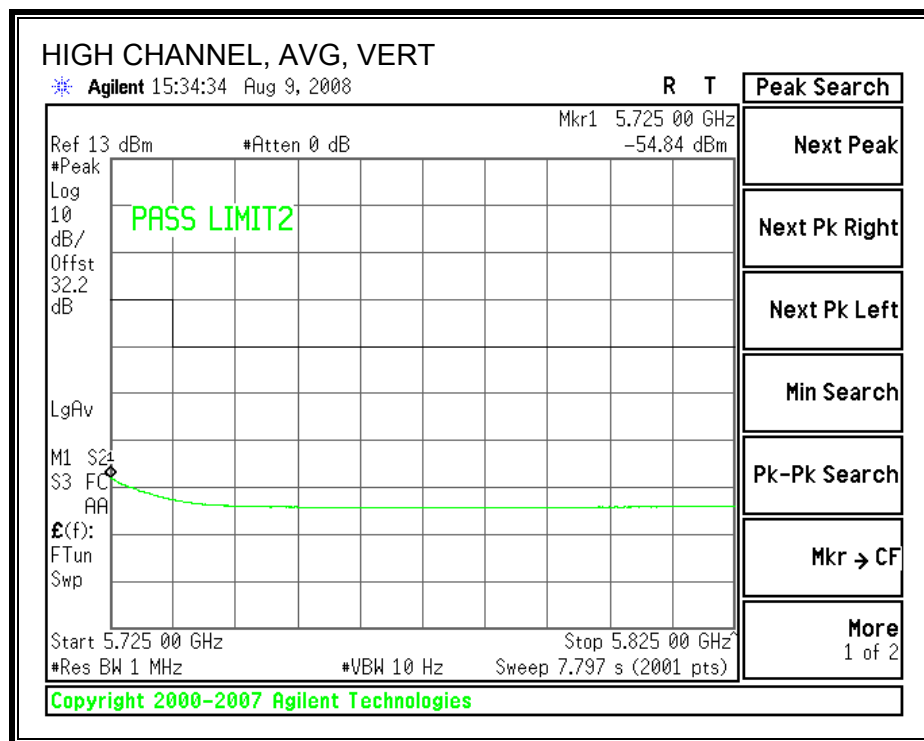
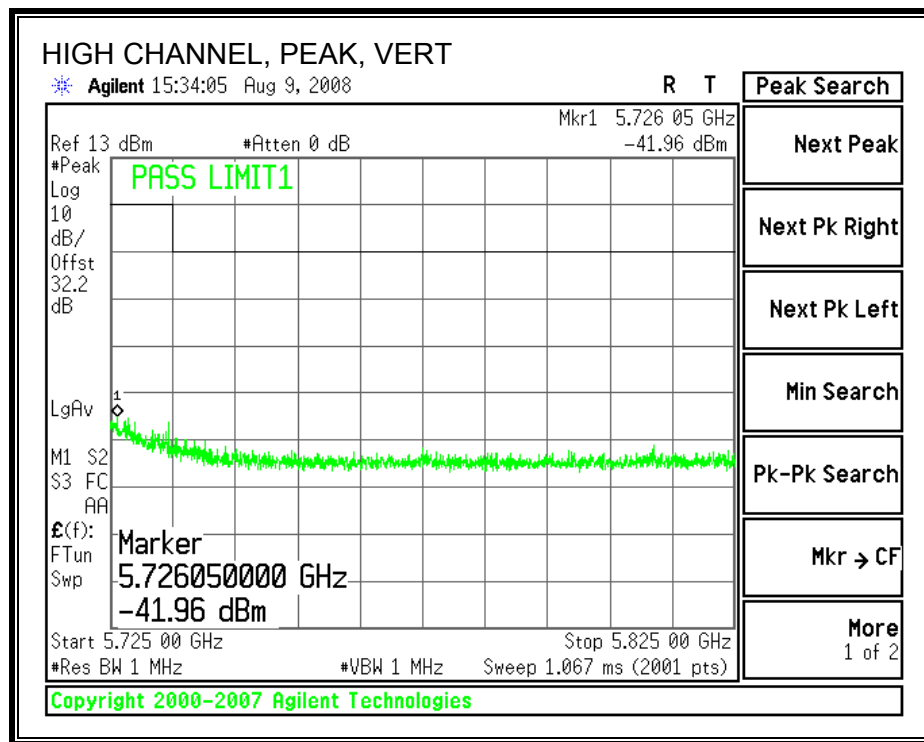
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

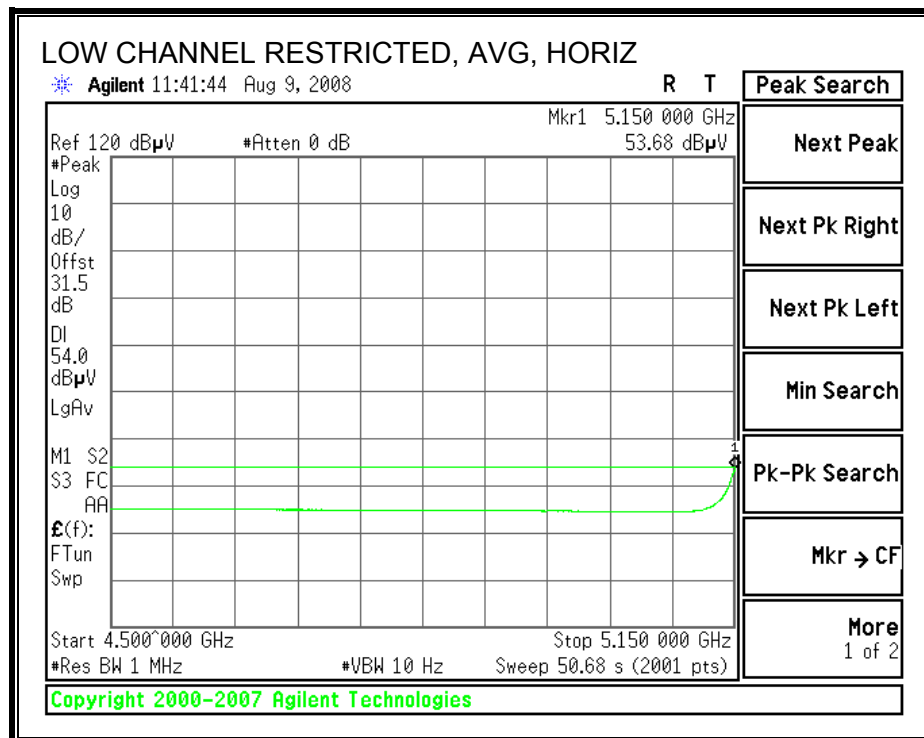
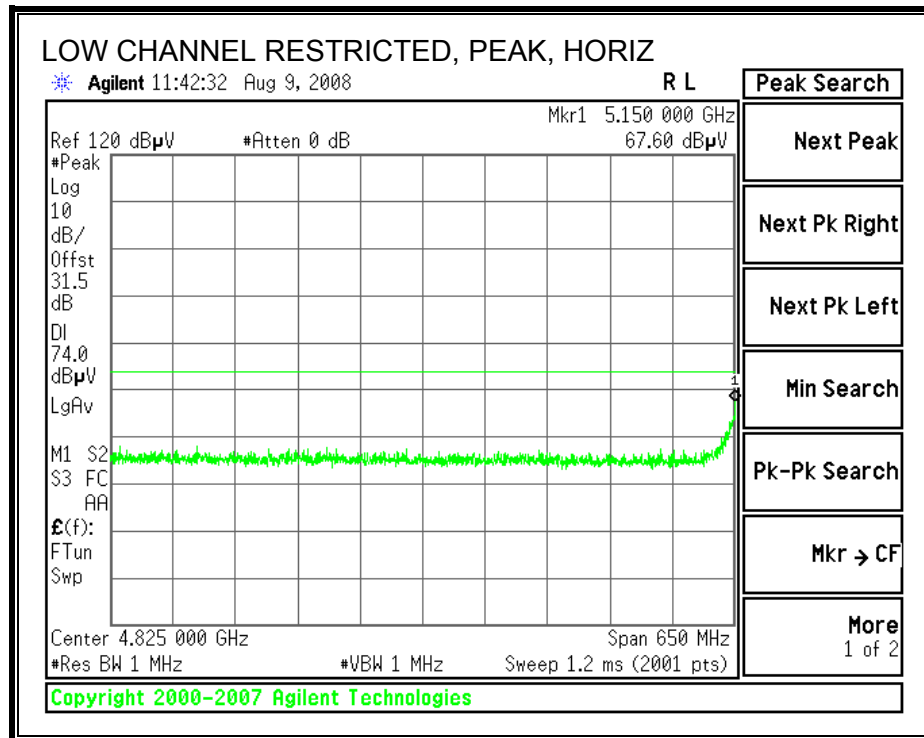


HARMONICS AND SPURIOUS EMISSIONS

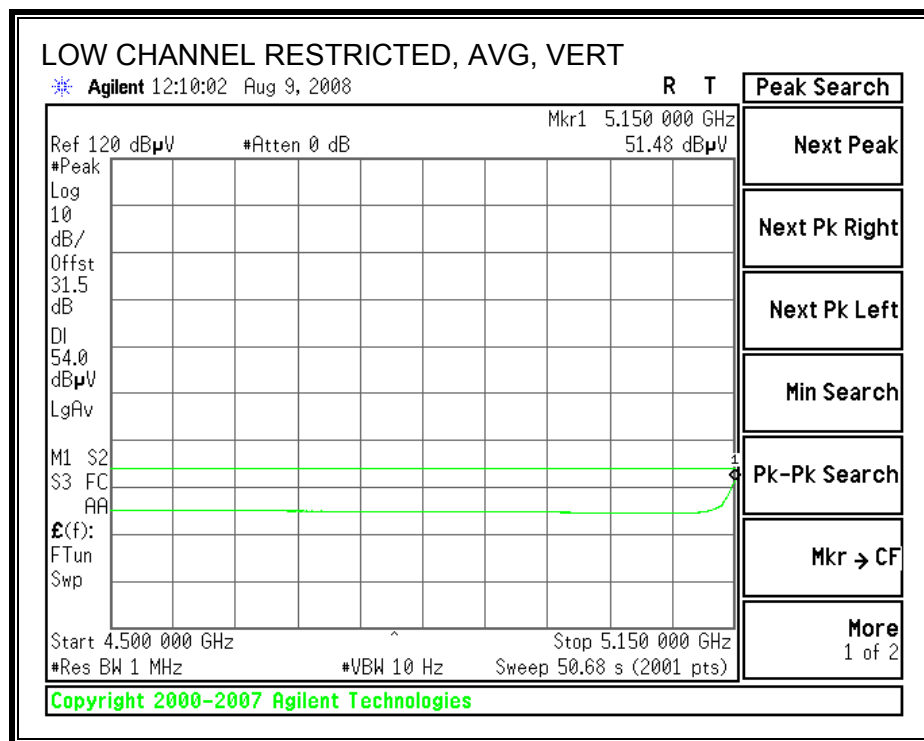
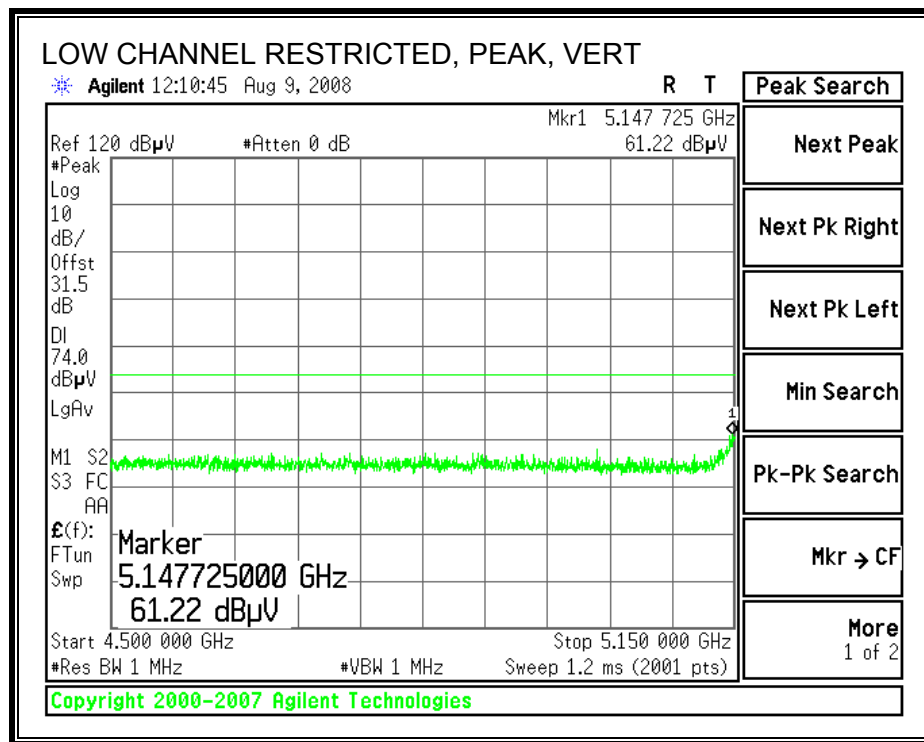
High Frequency Measurement																
Compliance Certification Services, Fremont 5m Chamber																
Company:		INTEL														
Project #:		08U12001														
Date:		8/10/2008														
Test Engineer:		Davin Chang														
Configuration:		EUT only														
Mode:		Tx, 5.5GHz HT20														
Test Equipment:																
Hom 1-18GHz				Pre-amplifier 1-26GHz				Pre-amplifier 26-40GHz				Horn > 18GHz				
T60; S/N: 2238 @3m				T144 Miteq 3008A00931								T125; ARA 18-26GHz; S/N:1007				
Hi Frequency Cables																
2 foot cable				3 foot cable				12 foot cable				HPF				
								B-5m Chamber				Reject Filter				
												R_001				
<div> <div>Peak Measurements</div> <div>RBW=VBW=1MHz</div> <div>Average Measurements</div> <div>RBW=1MHz ; VBW=10Hz</div> </div>																
f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	Filtr	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes	
GHz	(m)	dBuV	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)	
Low Ch. 5500MHz																
11.000	3.0	48.0	34.3	37.3	11.3	-36.3	0.0	0.0	60.4	46.7	74	54	-13.6	-7.3	V	
11.000	3.0	39.8	27.9	37.3	11.3	-36.3	0.0	0.0	52.2	40.3	74	54	-21.8	-13.7	H	
Mid Ch. 5600MHz																
11.200	3.0	44.9	31.6	37.3	11.5	-36.1	0.0	0.0	57.7	44.4	74	54	-16.3	-9.6	V	
11.200	3.0	38.7	26.4	37.3	11.5	-36.1	0.0	0.0	51.5	39.2	74	54	-22.5	-14.8	H	
High Ch. 5700MHz																
11.400	3.0	43.2	29.5	37.4	11.8	-35.9	0.0	0.0	56.3	42.7	74	54	-17.7	-11.3	V	
11.400	3.0	37.8	26.2	37.4	11.8	-35.9	0.0	0.0	51.0	39.4	74	54	-23.0	-14.6	H	
No more signal found																
Rev. 4.12.7																
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. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT40 MODE

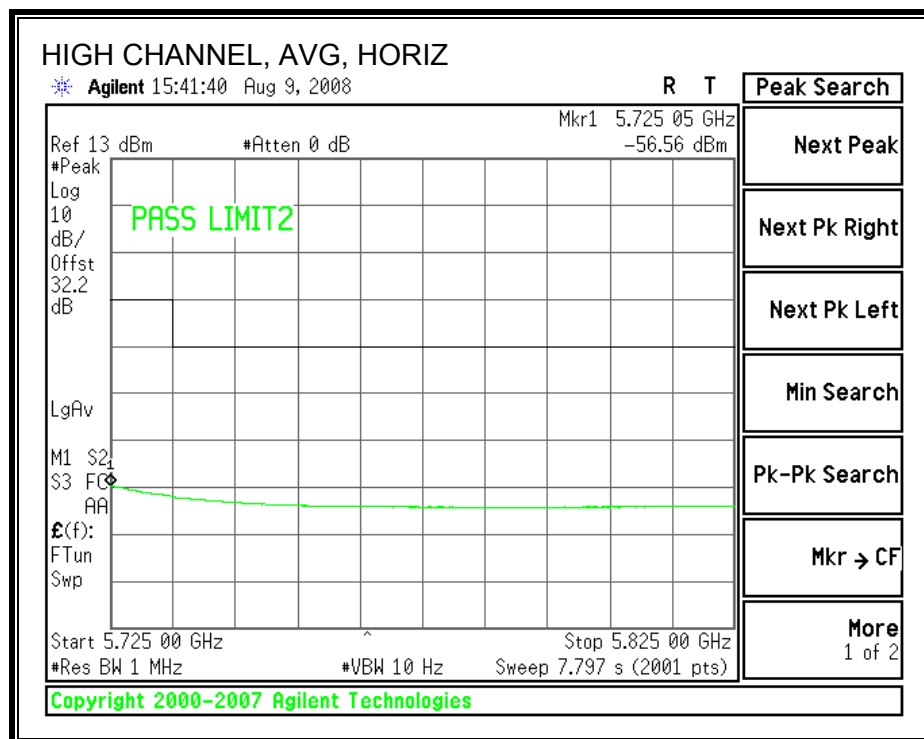
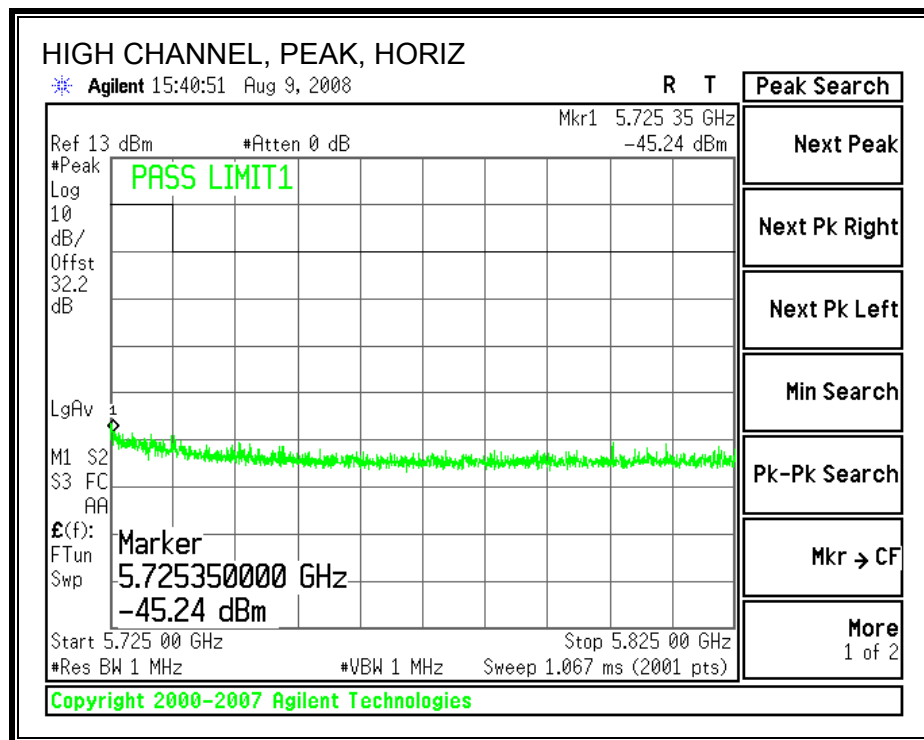
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



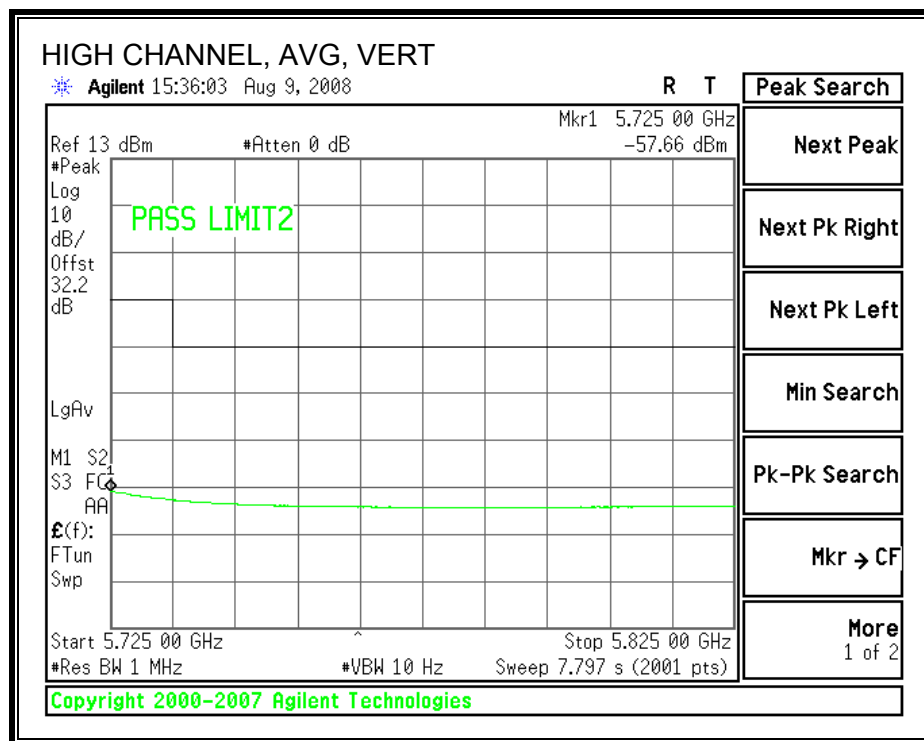
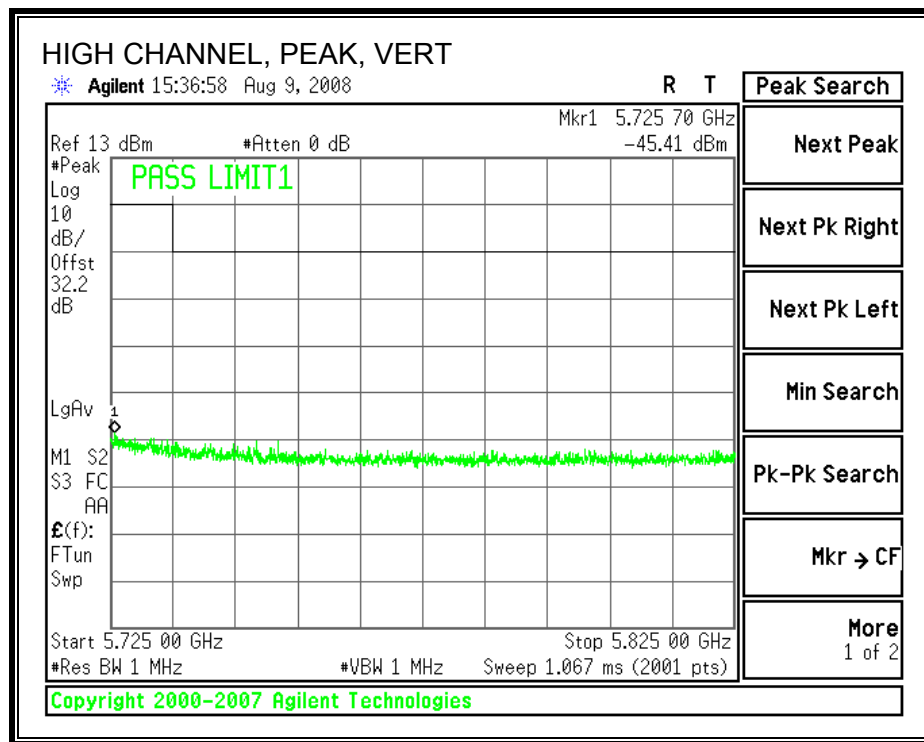
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement																	
Compliance Certification Services, Fremont 5m Chamber																	
Company:		INTEL															
Project #:		08U12001															
Date:		8/10/2008															
Test Engineer:		Devin Chang															
Configuration:		EUT only															
Mode:		Tx, 5.5GHz HT40															
Test Equipment:																	
Hom 1-18GHz				Pre-amplifier 1-26GHz				Pre-amplifier 26-40GHz				Horn > 18GHz					
T60; S/N: 2238 @3m				T144 Miteq 3008A00931								T125; ARA 18-26GHz; S/N:1007					
Hi Frequency Cables																	
2 foot cable				3 foot cable				12 foot cable				HPF					
								B-5m Chamber				Reject Filter					
												R_001					
<div> <div>Peak Measurements</div> <div>RBW=VBW=1MHz</div> <div>Average Measurements</div> <div>RBW=1MHz ; VBW=10Hz</div> </div>																	
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. 5510MHz																	
11.020	3.0	43.7	32.5	37.3	11.4	-36.3	0.0	0.0	56.1	44.9	74	54	-17.9	-9.1	V		
11.020	3.0	37.2	25.2	37.3	11.4	-36.3	0.0	0.0	49.6	37.7	74	54	-24.4	-16.3	H		
Mid Ch. 5590MHz																	
11.180	3.0	40.2	28.7	37.3	11.5	-36.1	0.0	0.0	52.9	41.4	74	54	-21.1	-12.6	V		
11.180	3.0	36.6	25.0	37.3	11.5	-36.1	0.0	0.0	49.4	37.7	74	54	-24.6	-16.3	H		
High Ch. 5670MHz																	
11.340	3.0	41.9	30.3	37.4	11.7	-36.0	0.0	0.0	55.0	43.4	74	54	-19.0	-10.6	V		
11.340	3.0	35.5	24.4	37.4	11.7	-36.0	0.0	0.0	48.5	37.5	74	54	-25.5	-16.5	H		
No more signal found																	
Rev. 4.12.7																	
f	Measurement Frequency		Amp	Preamp Gain		Avg Lim	Average Field Strength Limit		Pk Lim	Peak Field Strength Limit		Avg Mar	Margin vs. Average Limit		Pk Mar	Margin vs. Peak Limit	
Dist	Distance to Antenna		D Corr	Distance Correct to 3 meters													
Read	Analyzer Reading		Avg	Average Field Strength @ 3 m													
AF	Antenna Factor		Peak	Calculated Peak Field Strength													
CL	Cable Loss		HPF	High Pass Filter													

7.5. RECEIVER ABOVE 1 GHz

High Frequency Measurement															
Compliance Certification Services, Fremont 5m Chamber															
Company:		INTEL													
Project #:		08U12001													
Date:		8/23/2008													
Test Engineer:		Devin Chang													
Configuration:		EUT only													
Mode:		Rx, a mode													
Test Equipment:															
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz									
T120; S/N: 29310 @3m		T144 Miteq 3008A00931													
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		<u>Peak Measurements</u> RBW=VBW=1MHz <u>Average Measurements</u> RBW=1MHz ; VBW=10Hz					
				B-5m Chamber											
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)
1.195	3.0	53.3	38.8	28.6	3.5	-39.2	0.0	0.0	46.1	31.6	74	54	-27.9	-22.4	V
1.597	3.0	52.5	32.4	30.1	4.0	-38.6	0.0	0.0	47.9	27.9	74	54	-26.1	-26.1	V
1.993	3.0	47.5	32.8	31.6	4.5	-38.1	0.0	0.0	45.5	30.8	74	54	-28.5	-23.2	V
3.001	3.0	51.8	51.5	32.8	5.6	-37.4	0.0	0.0	52.9	52.5	74	54	-21.1	-1.5	V
1.195	3.0	63.6	40.2	28.6	3.5	-39.2	0.0	0.0	56.4	33.0	74	54	-17.6	-21.0	H
1.594	3.0	53.2	33.5	30.1	4.0	-38.6	0.0	0.0	48.7	28.9	74	54	-25.3	-25.1	H
1.993	3.0	51.6	31.0	31.6	4.5	-38.1	0.0	0.0	49.6	29.0	74	54	-24.4	-25.0	H
3.001	3.0	48.1	46.6	32.8	5.6	-37.4	0.0	0.0	49.1	47.7	74	54	-24.9	-6.3	H
No more signal found															
Rev. 4.12.7															
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										

7.6. WORST-CASE BELOW 1 GHz

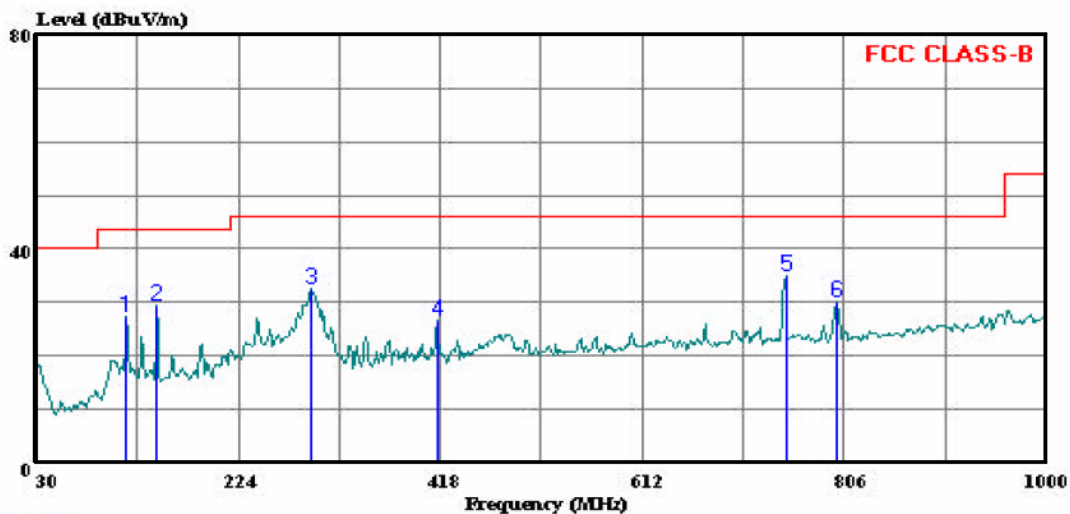
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



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

Data#: 2 File#: 08U12001.EMI Date: 08-06-2008 Time: 15:00:44



(Fremont)

Trace: 1

Ref Trace:

Condition: FCC CLASS-B HORIZONTAL
Test Operator:: Devin Chang
Project #: 08u12001
Company: INTEL
Configuration:: EUT with NB
Mode : PA3655U-1MPC
Target: FCC Class B

HORIZONTAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	116.330	40.50	-13.20	27.30	43.50	-16.20	Peak
2	145.430	43.09	-13.61	29.48	43.50	-14.02	Peak
3	293.840	43.75	-11.34	32.41	46.00	-13.59	Peak
4	415.090	34.31	-7.68	26.63	46.00	-19.37	Peak
5	749.740	34.75	0.13	34.88	46.00	-11.12	Peak
6	798.240	29.23	0.76	29.99	46.00	-16.01	Peak

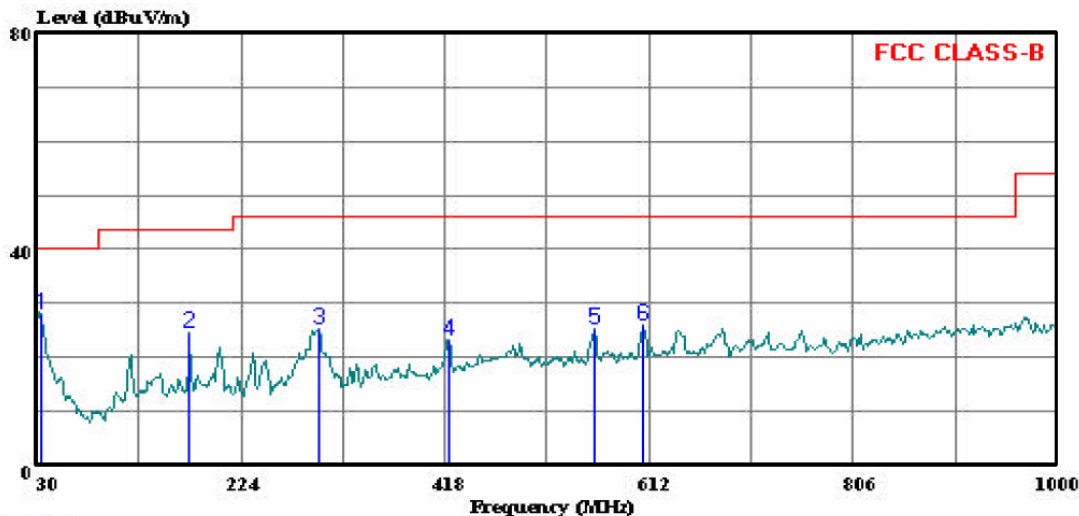
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL PLOT



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

Data#: 4 File#: 08U12001.EMI Date: 08-06-2008 Time: 15:12:50



(Fremont)

Trace: 3

Ref Trace:

Condition: FCC CLASS-B VERTICAL
Test Operator:: Devin Chang
Project #: 08u12001
Company: INTEL
Configuration:: EUT with NB
Mode : PA3655U-1MPC
Target: FCC Class B

VERTICAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	33.880	38.53	-10.62	27.91	40.00	-12.09	Peak
2	174.530	39.18	-14.51	24.67	43.50	-18.83	Peak
3	298.690	36.36	-11.14	25.22	46.00	-20.78	Peak
4	421.880	30.70	-7.47	23.23	46.00	-22.77	Peak
5	560.590	28.77	-3.62	25.15	46.00	-20.85	Peak
6	606.180	28.52	-2.67	25.85	46.00	-20.15	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

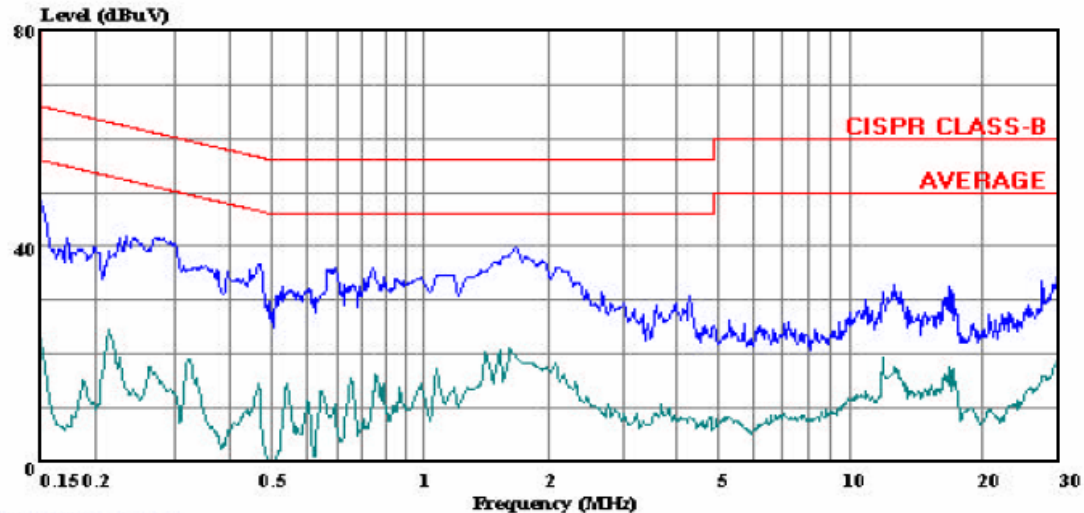
CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq. (MHz)	Reading			Closs (dB)	Limit		Margin		Remark
	PK (dBuV)	QP (dBuV)	AV (dBuV)		QP	AV	QP (dB)	AV (dB)	
0.21	41.83	--	24.56	0.00	63.05	53.05	-21.22	-28.49	L1
0.33	36.86	--	19.06	0.00	59.58	49.58	-22.72	-30.52	L1
1.73	39.98	--	21.12	0.00	56.00	46.00	-16.02	-24.88	L1
0.21	41.33	--	23.45	0.00	63.05	53.05	-21.72	-29.60	L2
0.33	35.76	--	19.35	0.00	59.45	49.45	-23.69	-30.10	L2
1.78	37.85	--	19.35	0.00	56.00	46.00	-18.15	-26.65	L2
6 Worst Data									

LINE 1 RESULTS



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

Data#: 21 File#: 08U12001.EMI Date: 08-06-2008 Time: 16:47:44



(Line Conduction)

Trace: 19

Ref Trace:

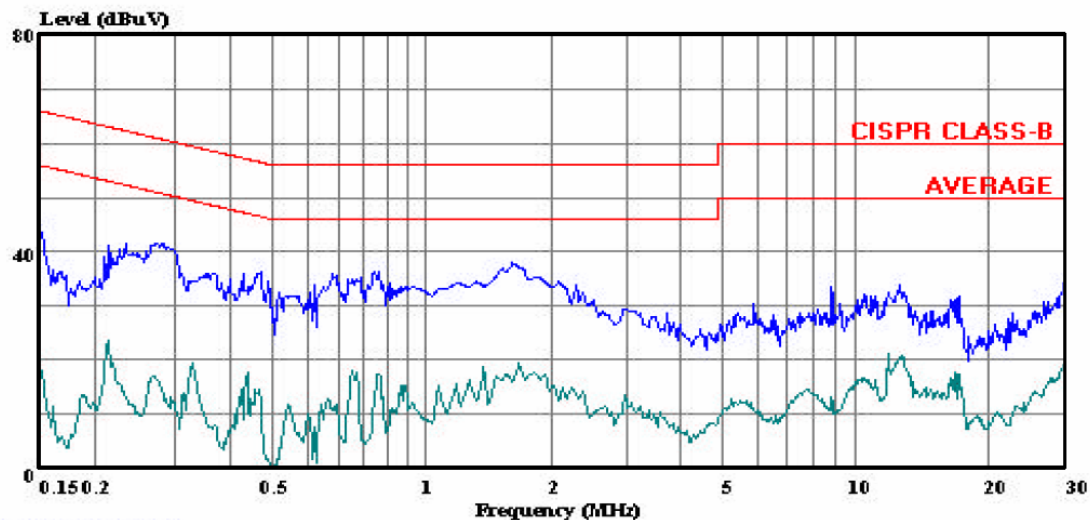
Condition: CISPR CLASS-B
Test Operator:: Devin Chang
Project #: 08U12001
Company: INTEL
Configuration:: EUT with NB
Mode: PA3655U-1MPC
Target: CISPR Class B
Voltage: 115 VAC / 60 Hz
L1: Peak (Peak), Average (Green)

LINE 2 RESULTS



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

Data#: 14 File#: 08U12001.EMI Date: 08-06-2008 Time: 16:05:19



(Line Conduction)

Trace: 12

Ref Trace:

Condition: CISPR CLASS-B
Test Operator:: Devin Chang
Project #: 08U12001
Company: INTEL
Configuration:: EUT with NB
Mode: PA3655U-1MPC
Target: CISPR Class B
Voltage: 115 VAC / 60 Hz
L2: Peak (Peak), Average (Green)