



**FCC CFR47 PART 15 SUBPART E
CLASS II PERMISSIVE CHANGE**

CERTIFICATION TEST REPORT

FOR

INTEL WIMAX/WIFI LINK 5350 SERIES

FCC MODEL NUMBER: 533ANXMMW

FCC ID: PD9533ANXMU

REPORT NUMBER: 08U12161-2

ISSUE DATE: NOVEMBER 10, 2008

Prepared for
**INTEL CORPORATION
2111 N.E. 25th AVE
HILLSBORO, OR 97124-5961, U.S.A.**

Prepared by
**COMPLIANCE CERTIFICATION SERVICES
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888**



NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	11/10/08	Initial Issue	T. Chan

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: INTEL CORPORATION
2111 NE 25TH AVENUE
HILLSBORO, OREGON 97124, USA

EUT DESCRIPTION: INTEL WIMAX/WIFI LINK 5350 SERIES

FCC MODEL NUMBER: 533ANXMMW

SERIAL NUMBER: 0016EB041B3C

DATE TESTED: OCTOBER 02-07, 2008

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	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



CHIN PANG
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 WiMAX/WiFi Link 5350 Series
The radio module is manufactured by Intel.

5.2. MAXIMUM OUTPUT POWER

The measured target power of this device is within ± 0.5 dB of the original output power.

For 5GHz Band, 802.11n HT40 single chain, in order to pass the band edges, output power is reduced to 14.50dBm on low channel at 5.2GHz band and 14.54dBm on high channel at 5.3GHz band, no change on mid-band. The manufacturer states that this change will be incorporated in the EEPROM.

5.3. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The major change filed under this application is adding portable tablet LENOVO THINKPAD X200 TABLET SERIES.

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PIFA antenna, with a maximum gain of 0.64 dBi for 2.4GHZ Band, 1.45 dBi for 5150-5350MHz band, 1.47 dBi for 5470-5725MHz band, and 0.92 dBi for 5.725 – 5850MHz band.

5.5. SOFTWARE AND FIRMWARE

The EUT driver software installed in the host support equipment during testing was CRTU, version 5.0.76.0

5.6. 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.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Lenovo	12MY	LV-002MY	DoC
AC Adapter	Lenovo	PA-1650-171	11S92P1160Z1ZBQH84K95K	DoC

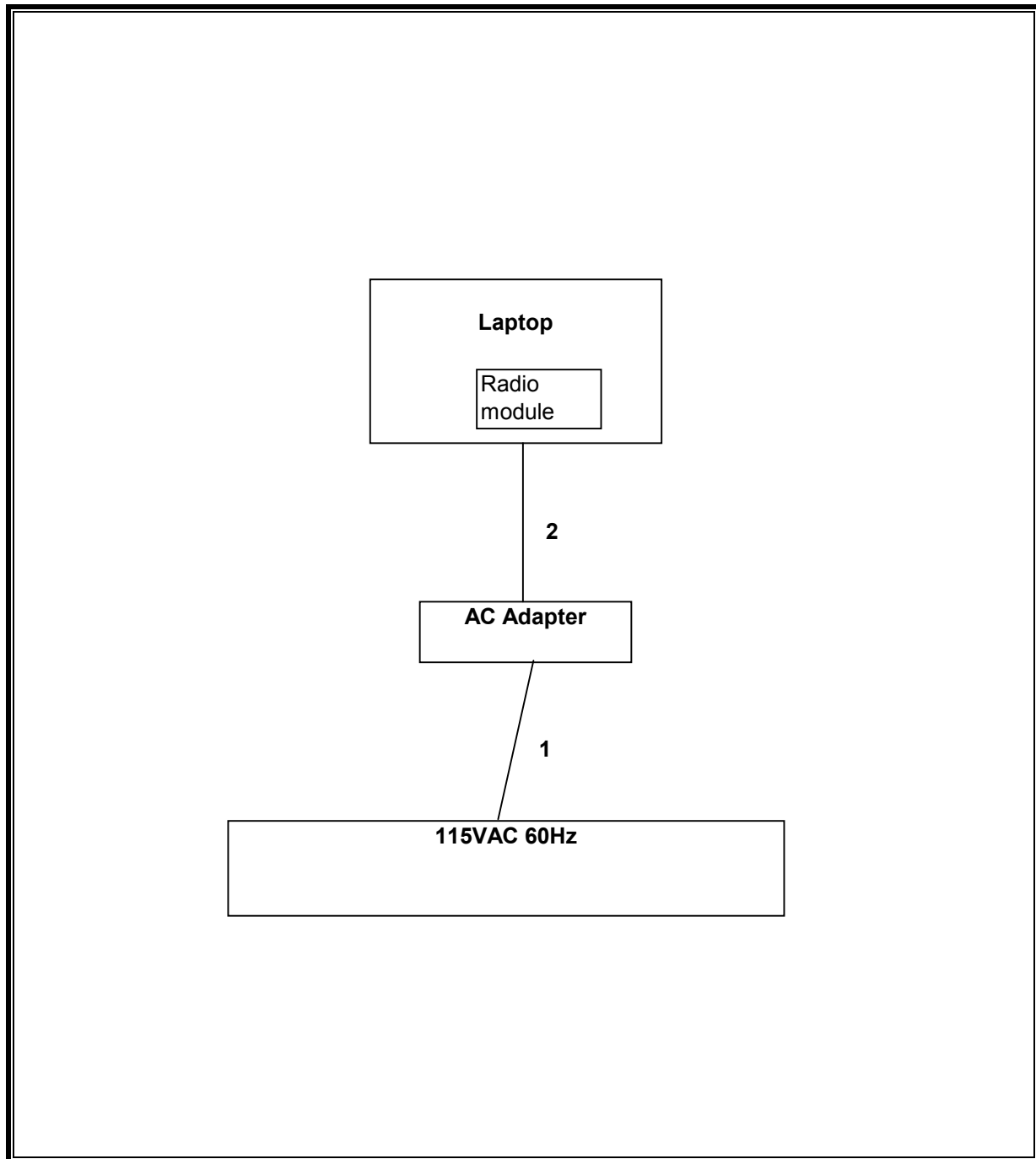
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US 115V	Un-shielded	0.8m	NA
2	DC	1	DC	Un-shielded	1.8m	Ferrite at laptop's end

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
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C00749	12/27/08
Antenna, Horn, 18 GHz	EMCO	3115	C00872	04/22/09
Preamp, 1000MHz	Sonoma	310N	N02891	03/31/09
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	02/11/09
EMI Receiver, 2.9 GHz	Agilent / HP	8542E	C00957	09/19/09
RF Filter Section, 2.9 GHz	Agilent / HP	85420E	C00958	09/19/09
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	10/25/08
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/06/09
Antenna, Horn, 26.5 GHz	ARA	SWH-28	C01015	12/28/08
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	03/03/09
Highpass Filter, 7.6 GHz	Micro-Tronics	HPM13195	N02681	CNR
Preamplifier, 40 GHz	Miteq	NSP4000-SP2	C00990	12/11/08
Antenna, Horn, 40 GHz	ARA	MVH-2640/B	C00981	04/29/09

7. ANTENNA PORT TEST RESULTS

7.1.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

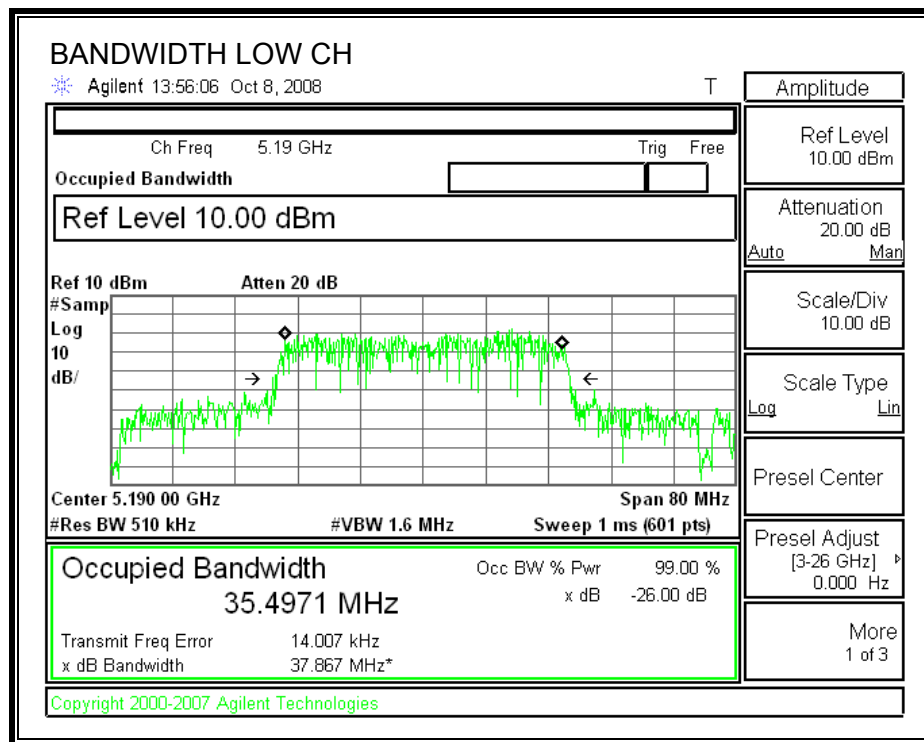
TEST PROCEDURE

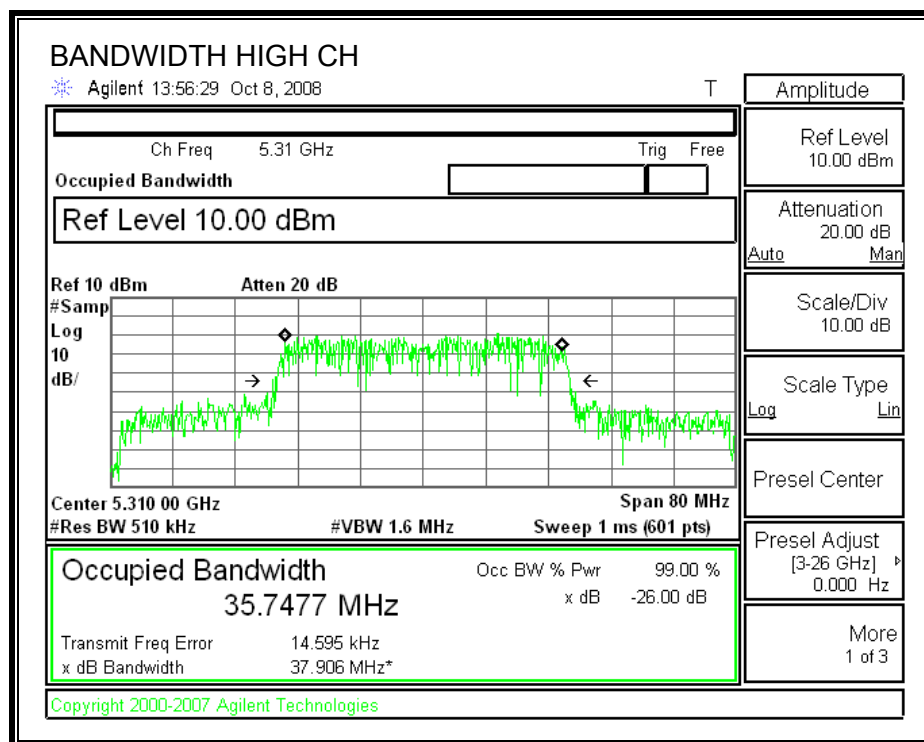
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the measured bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal bandwidth function is utilized.

RESULTS

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5190	37.867
High	5310	37.906

26 dB and 99% BANDWIDTH





7.1.2. OUTPUT POWER

LIMITS

FCC §15.407 (a) (1 & 2)

IC RSS-210 A9.2 (1 & 2)

For the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or $4 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz.

For the 5.25-5.35 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz.

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

The test is performed in accordance with FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices – Part 15, Subpart E, August 2002.

The transmitter output operates continuously therefore Method # 1 is used.

RESULTS

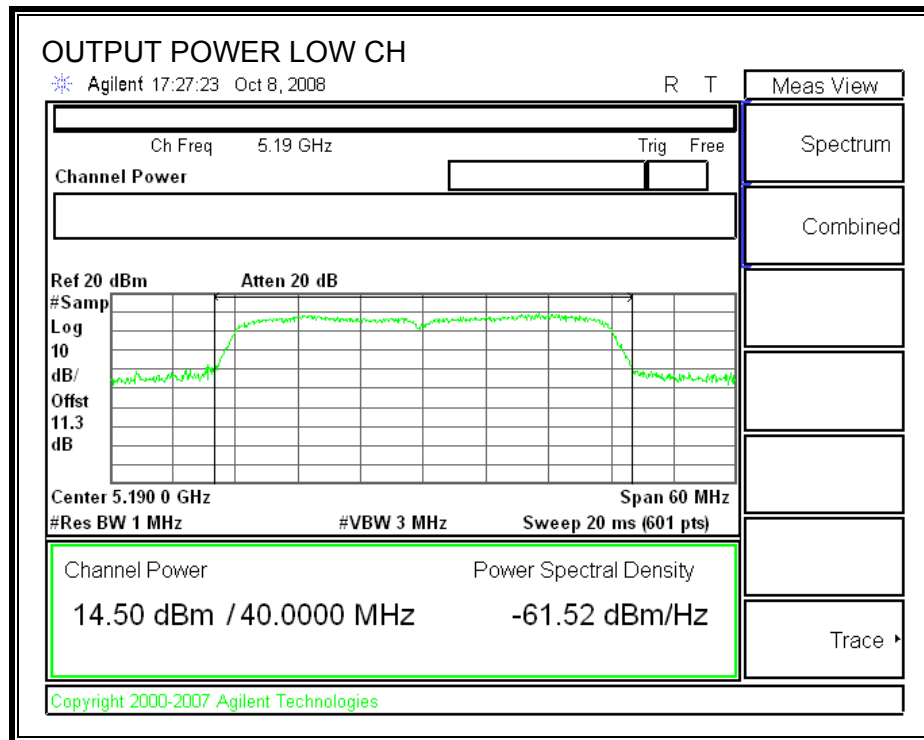
Limit

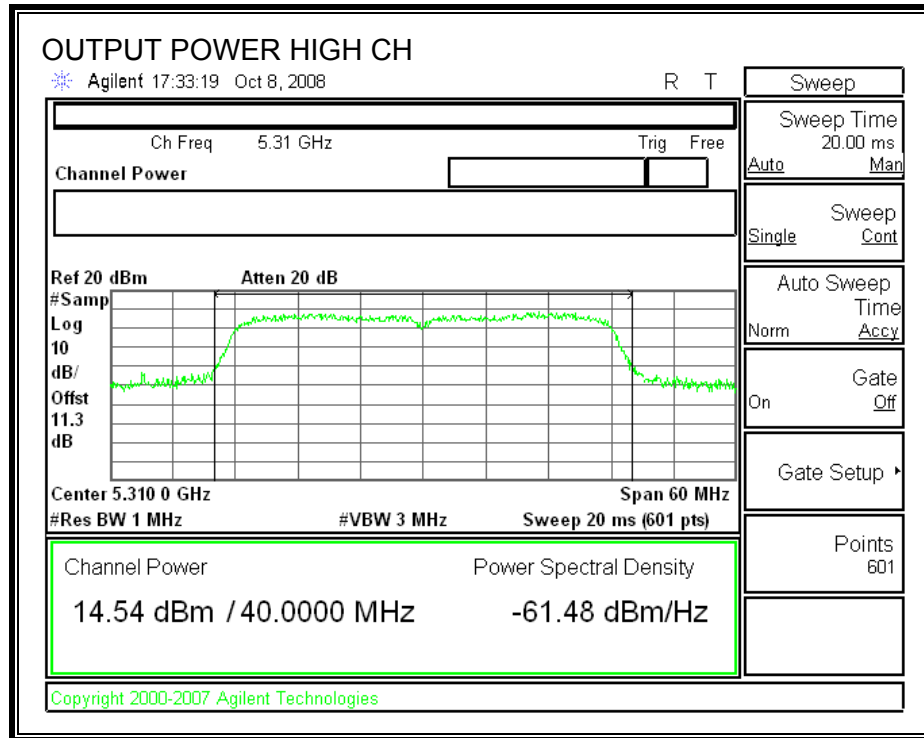
Channel	Frequency (MHz)	Fixed Limit (dBm)	B (MHz)	4 + 10 Log B Limit (dBm)	Antenna Gain (dBi)	Limit (dBm)
Low	5190	17	37.867	19.78	1.47	17.00
High	5310	17	37.867	19.78	1.47	17.00

Results

Channel	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)
Low	5190	14.50	17.00	-2.50
High	5310	14.54	17.00	-2.46

OUTPUT POWER





8. RADIATED TEST RESULTS

8.1. 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.

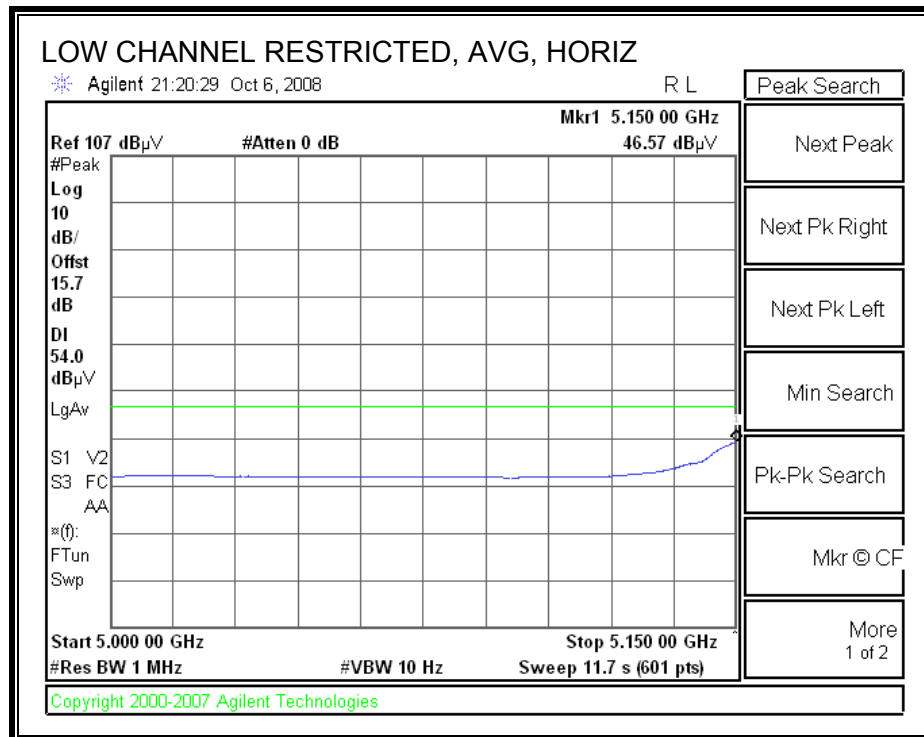
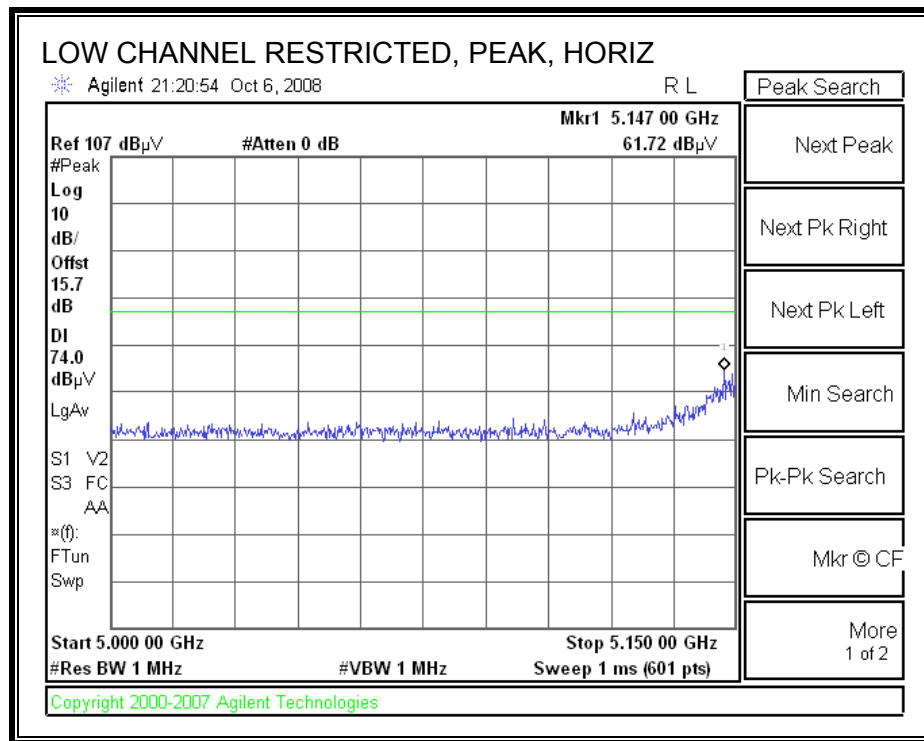
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

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.

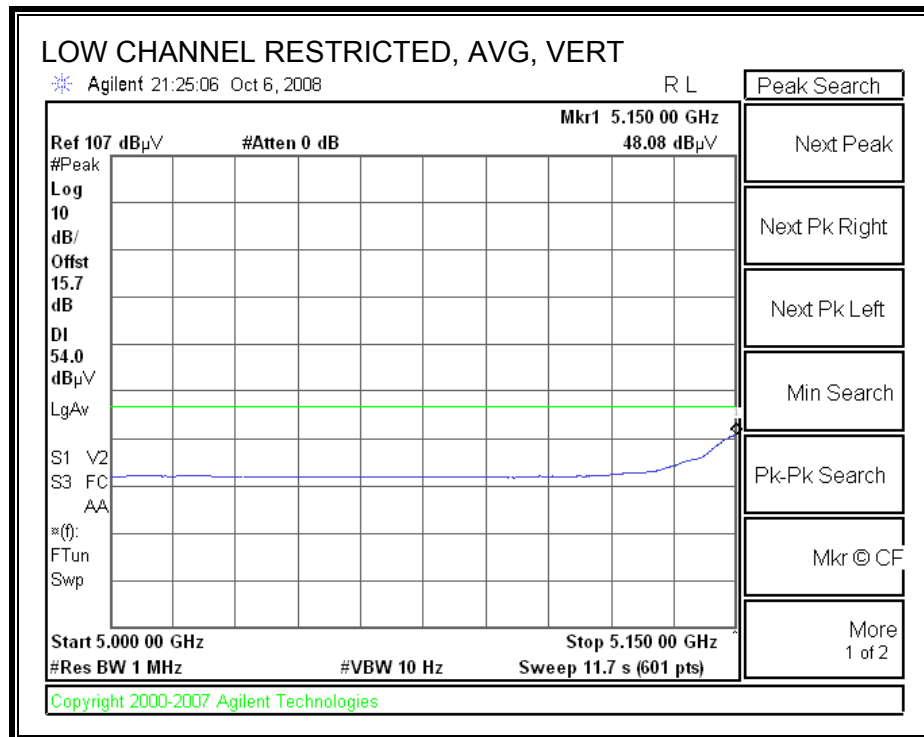
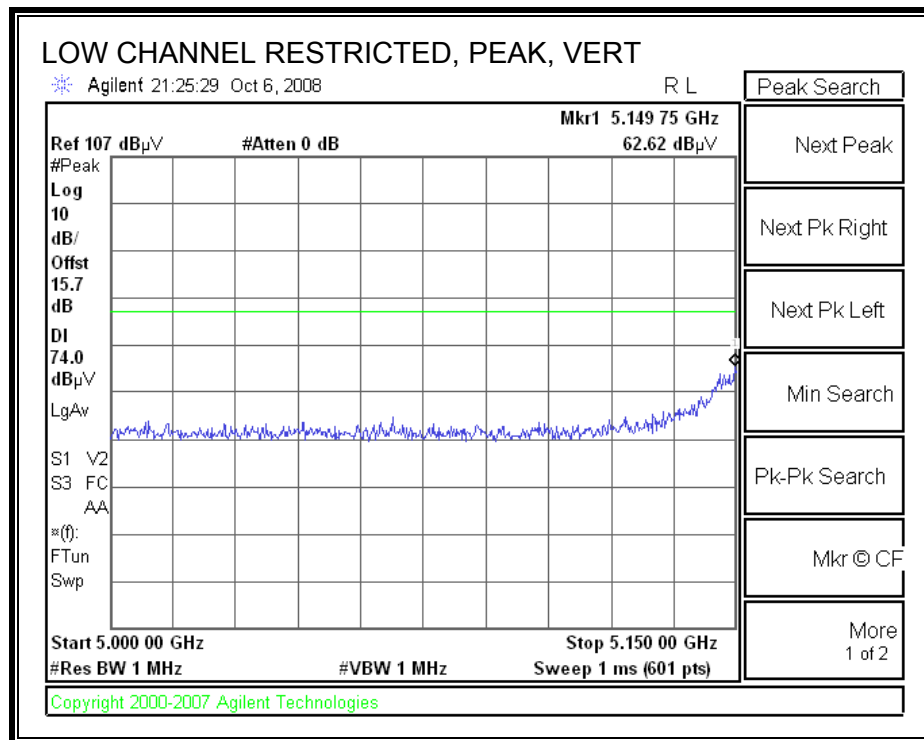
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

8.2. TRANSMITTER ABOVE 1 GHz

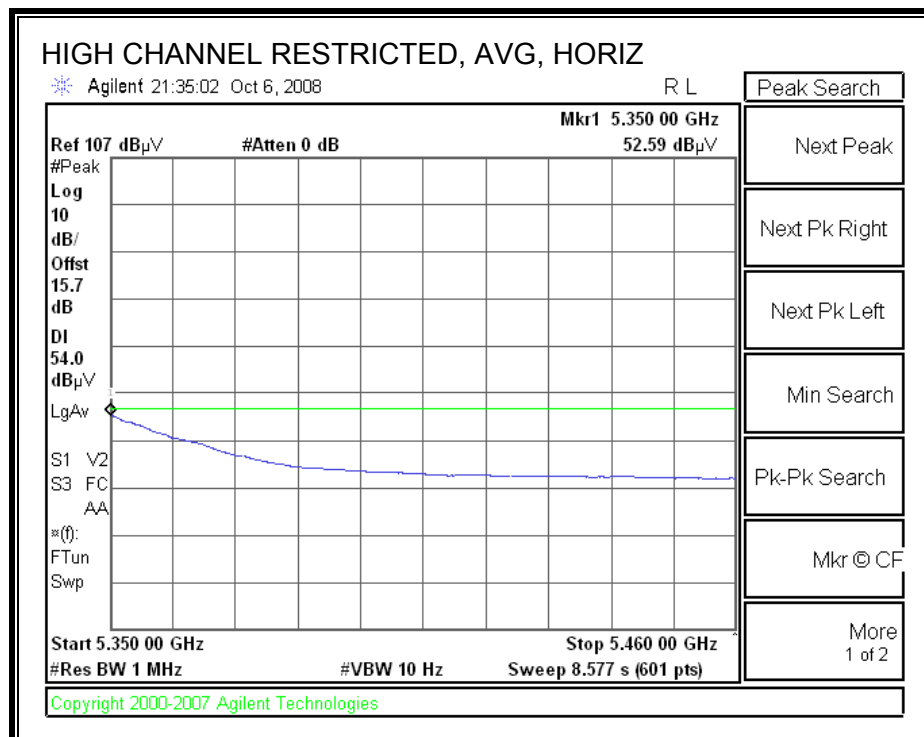
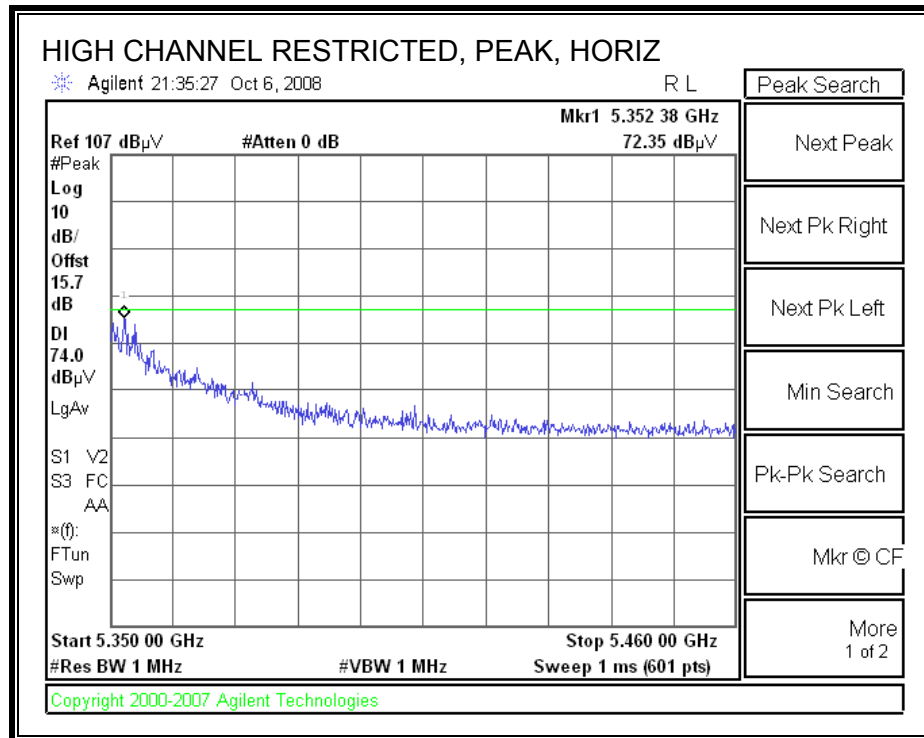
8.2.1. FOR 802.11n HT40 MODE CHAIN A IN THE 5.2 GHz RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



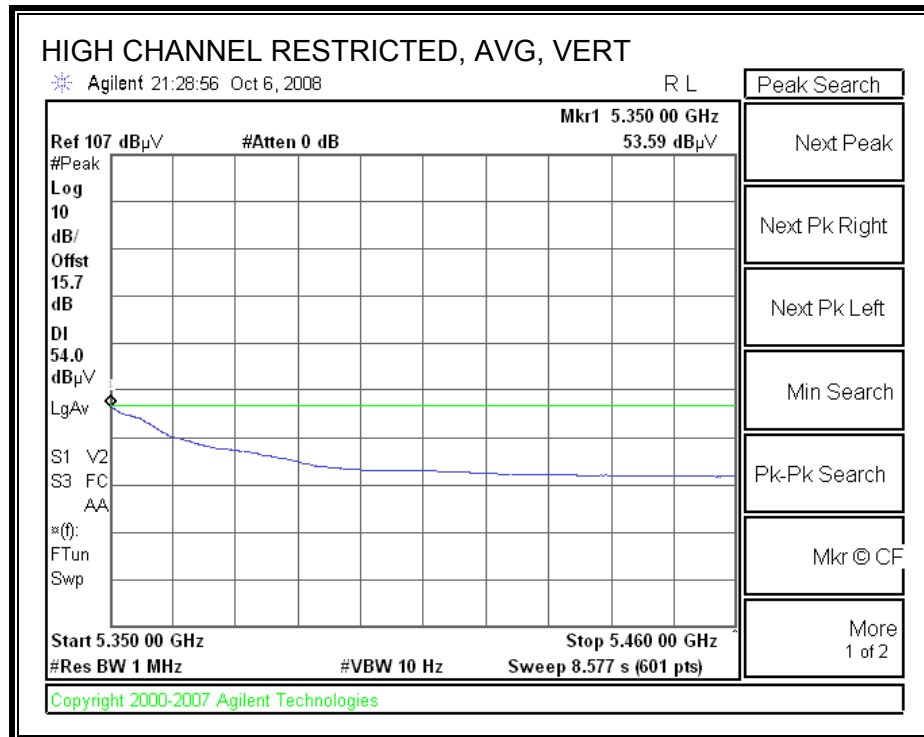
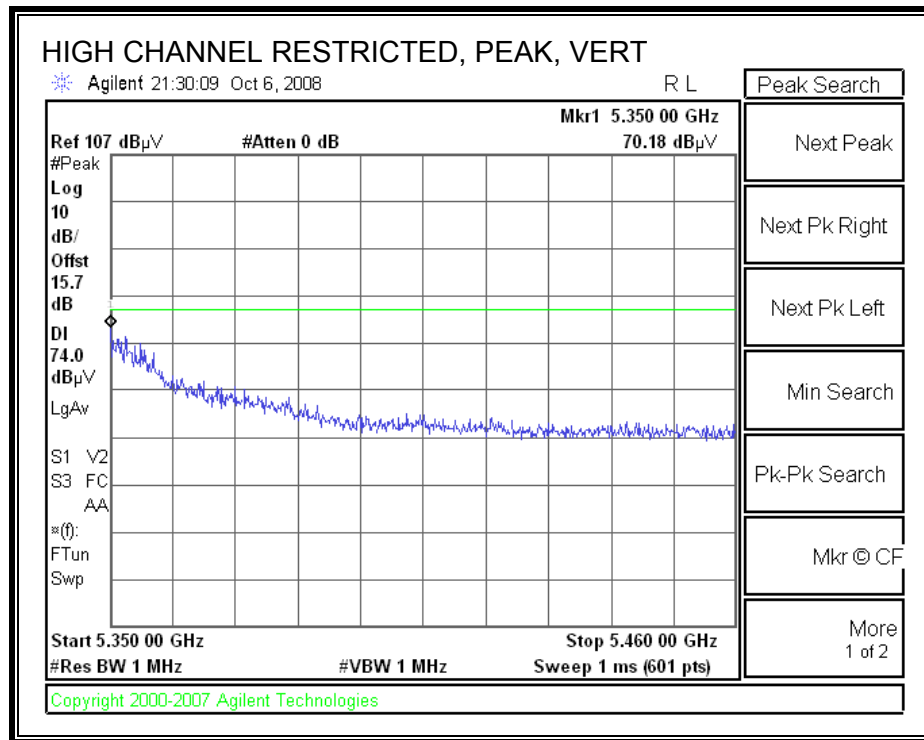
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



**8.2.2. FOR 802.11n HT40 MODECHAIN A IN THE 5.3 GHz
RESTRICTED BANDEGE (HIGH CHANNEL, HORIZONTAL)**

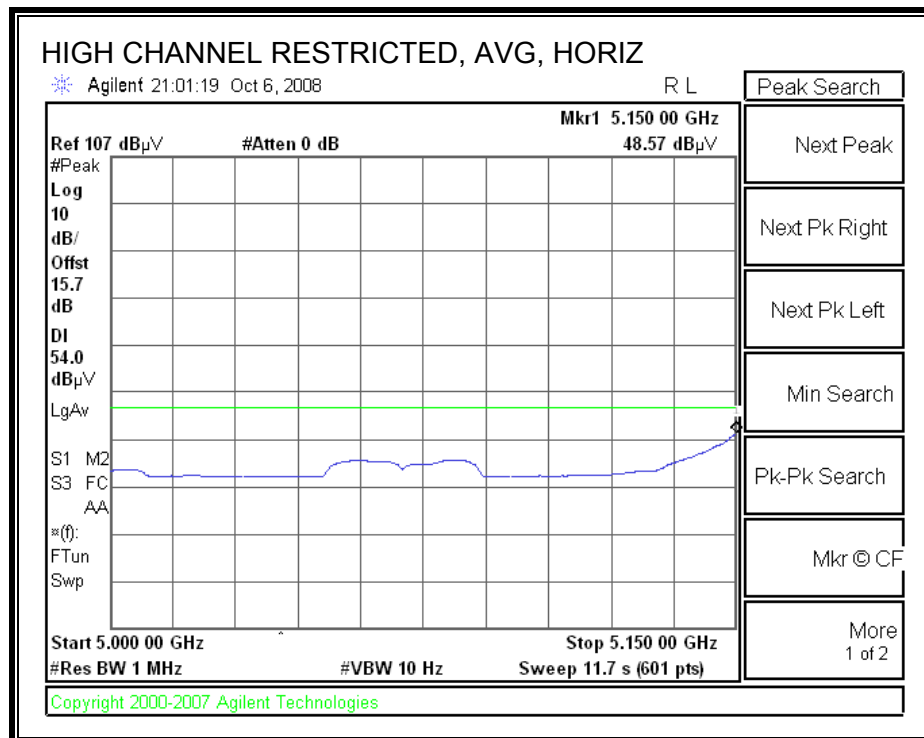
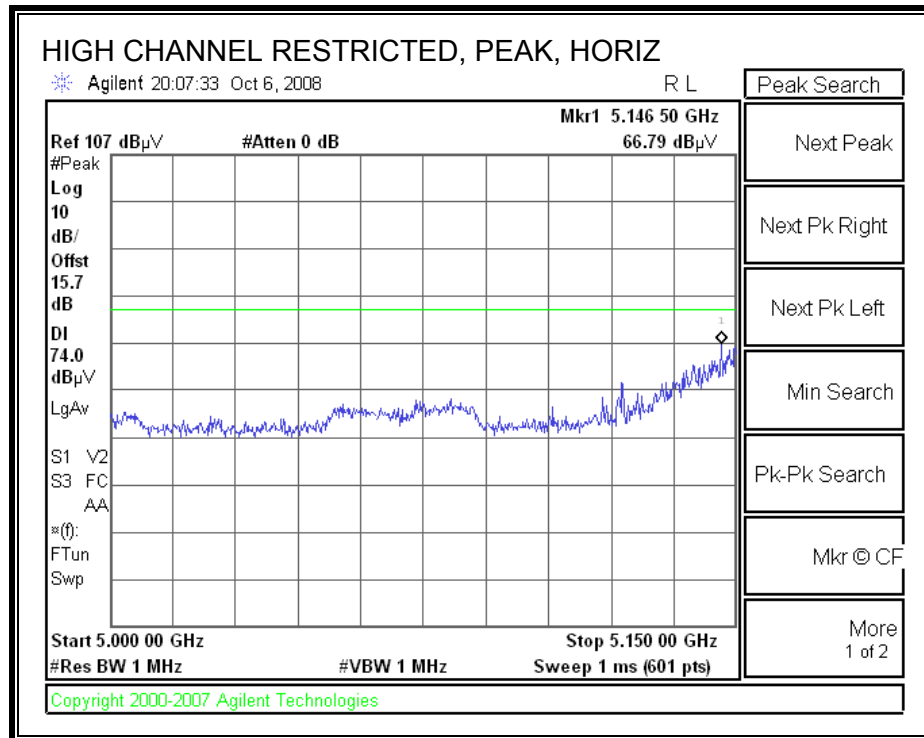


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

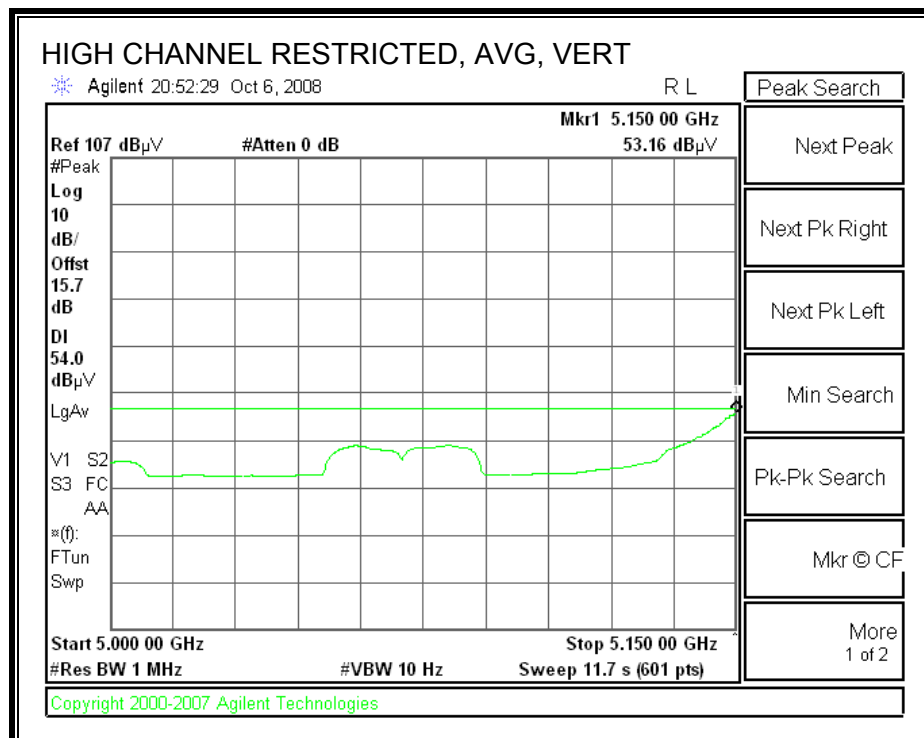
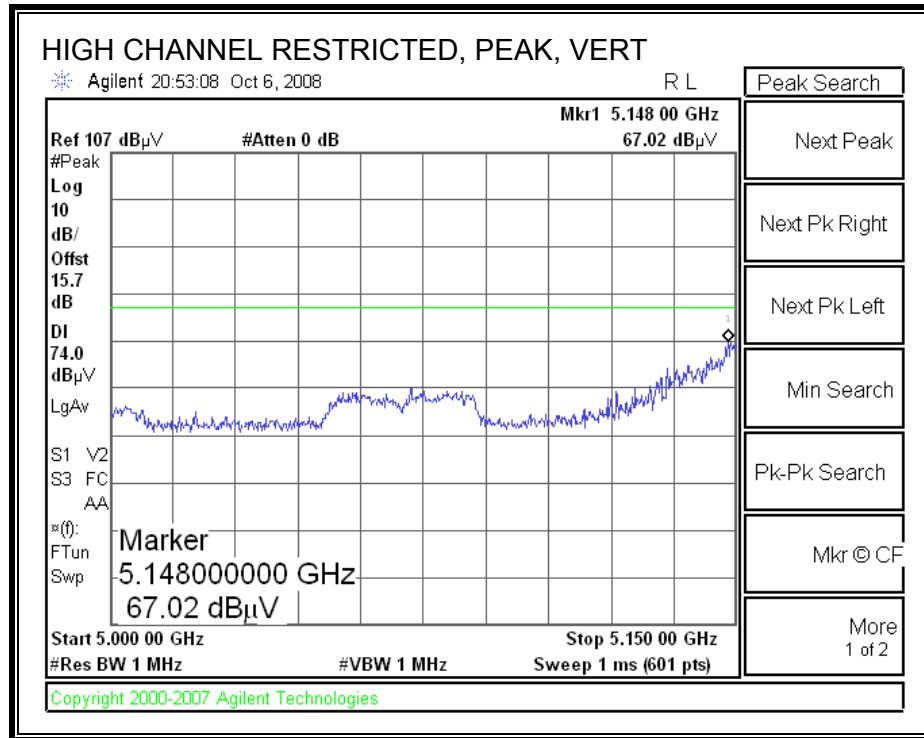


8.2.3. FOR 802.11n HT40 MODE CHAIN B IN THE 5.2 GHz

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

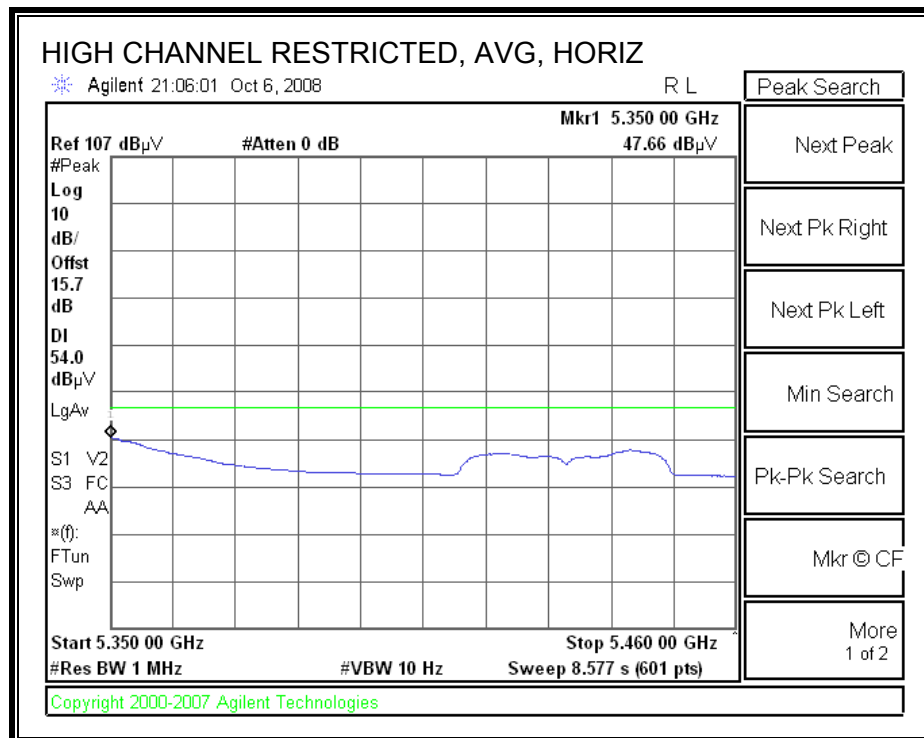
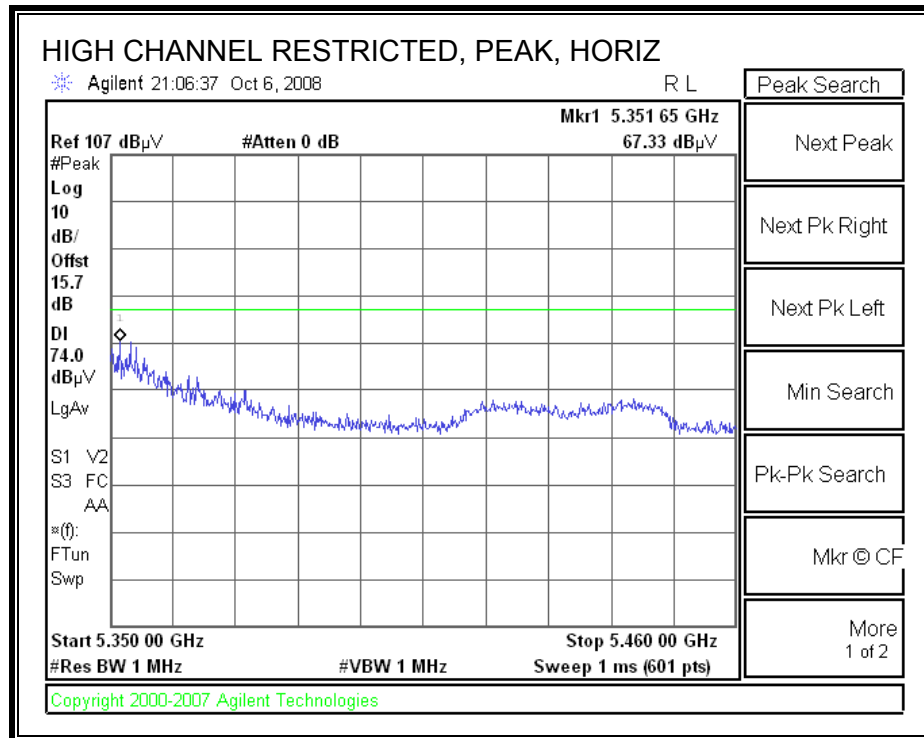


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

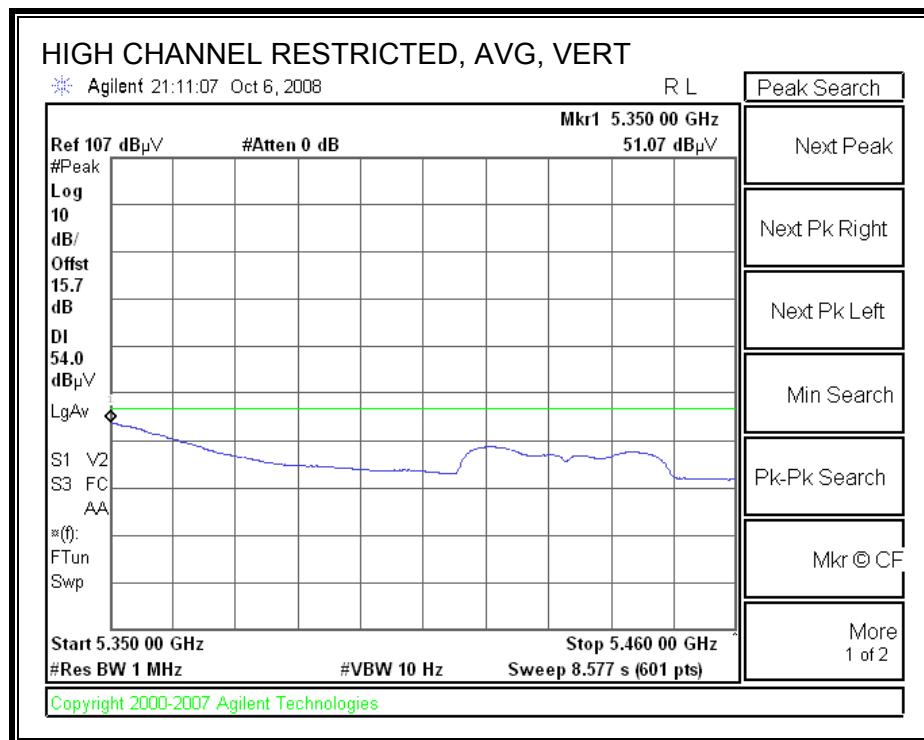
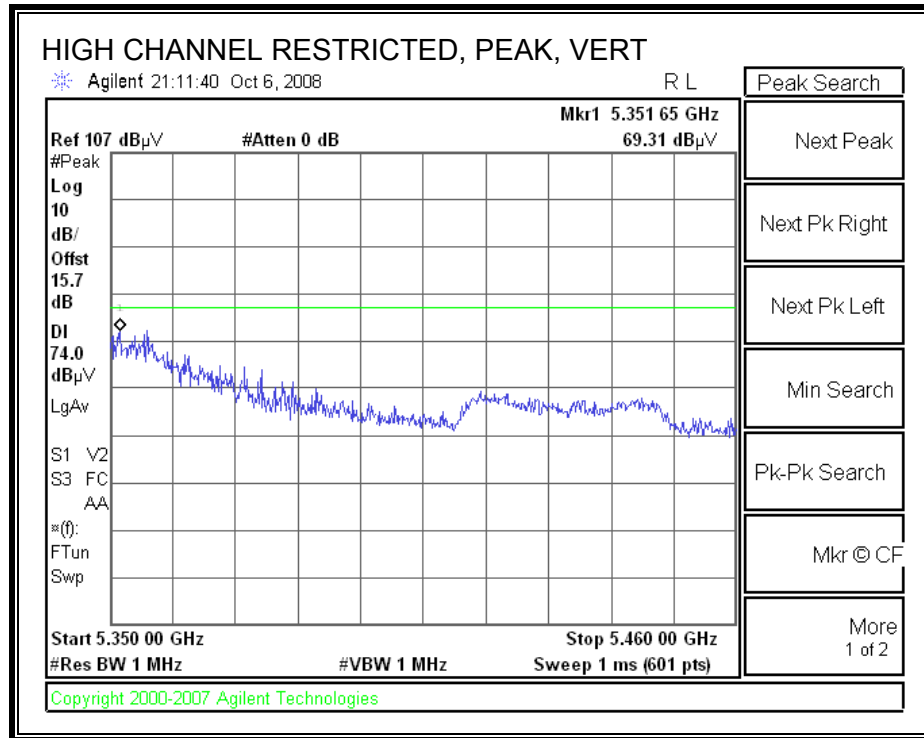


8.2.4. FOR 802.11n HT40 MODE CHAIN B IN THE 5.3 GHz

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

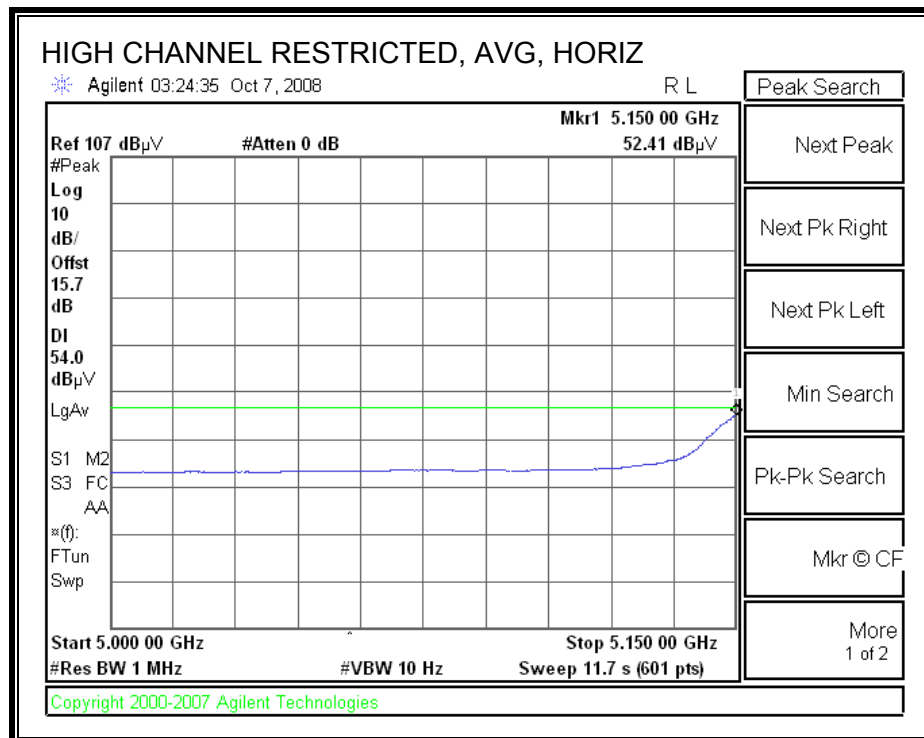
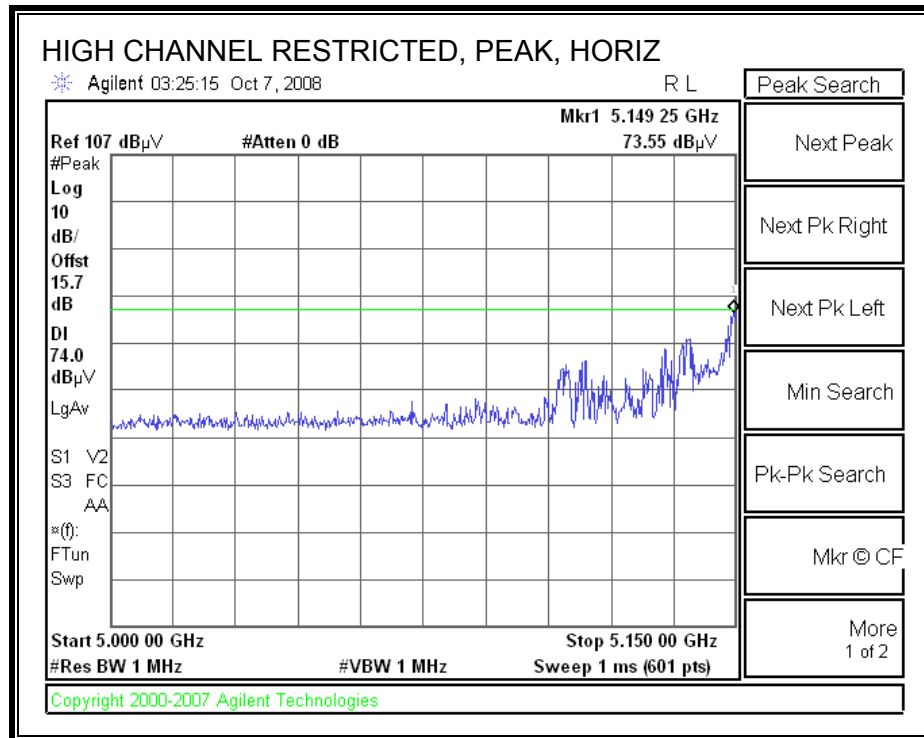


HARMONICS AND SPURIOUS EMISSIONS

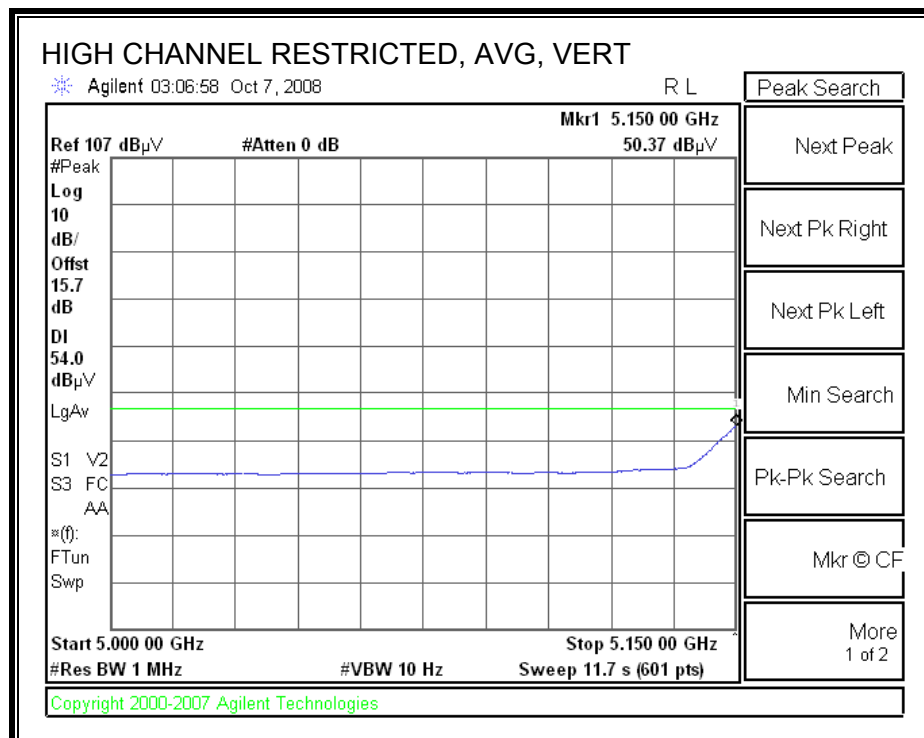
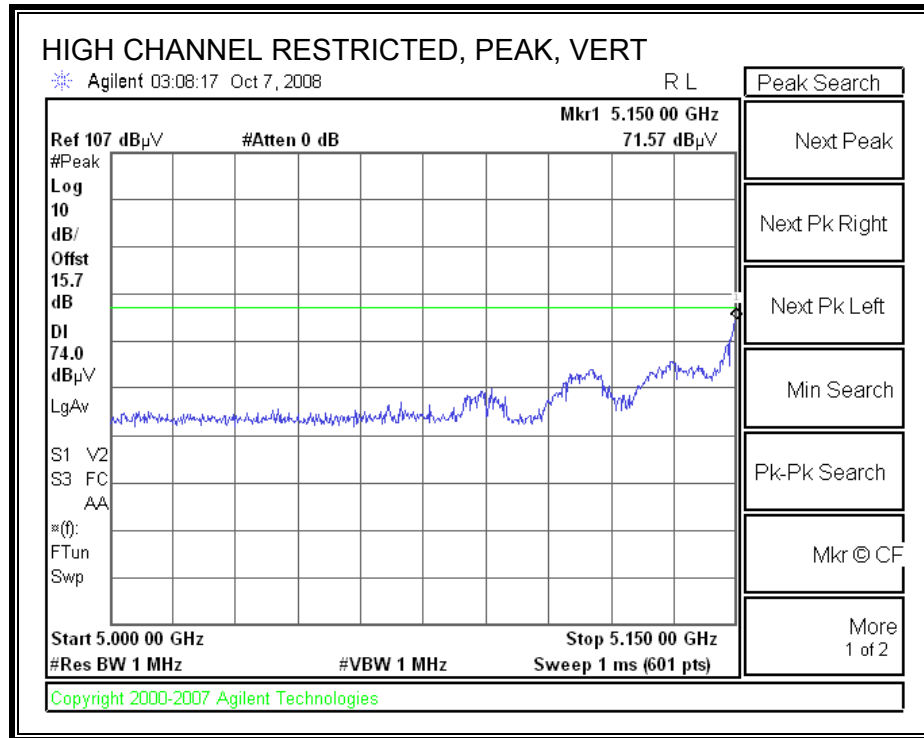
High Frequency Measurement																
Compliance Certification Services, Fremont 5m Chamber																
Company: Intel																
Project #: 08U12161																
Date: 10/07/2008																
Test Engineer: Chin Pang																
Configuration: EUT only																
Mode: TX a Mode HT40 Chain B																
Test Equipment:																
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit								
T73; S/N: 6717 @3m		T34 HP 8449B						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		C-5m Chamber		HPF_7.6GHz										
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Ftr 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	41.6	28.2	42.5	10.9	-32.2	0.0	0.7	63.5	50.1	74	54	-10.5	-3.9	V	
15.570	3.0	42.0	29.0	42.5	10.9	-32.2	0.0	0.7	63.9	50.9	74	54	-10.1	-3.1	H	
Mid Ch, 5270MHz																
15.810	3.0	40.6	28.0	43.1	10.9	-32.2	0.0	0.7	63.2	50.6	74	54	-10.8	-3.4	V	
15.810	3.0	41.5	28.6	43.1	10.9	-32.2	0.0	0.7	64.1	51.2	74	54	-9.9	-2.8	H	
High Ch, 5310MHz																
10.620	3.0	39.2	27.5	38.2	9.7	-32.6	0.0	0.8	55.3	43.6	74	54	-18.7	-10.4	V	
15.930	3.0	41.0	28.5	43.4	10.9	-32.1	0.0	0.7	63.9	51.4	74	54	-10.1	-2.6	V	
10.620	3.0	39.5	27.2	38.2	9.7	-32.6	0.0	0.8	55.6	43.3	74	54	-18.4	-10.7	H	
15.930	3.0	41.3	28.6	43.4	10.9	-32.1	0.0	0.7	64.2	51.5	74	54	-9.8	-2.5	H	
Rev. 4127																
Note: No other emissions were detected above the 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												

8.2.5. FOR 802.11n HT40 MODE IN THE 5.2 GHz-3TX

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

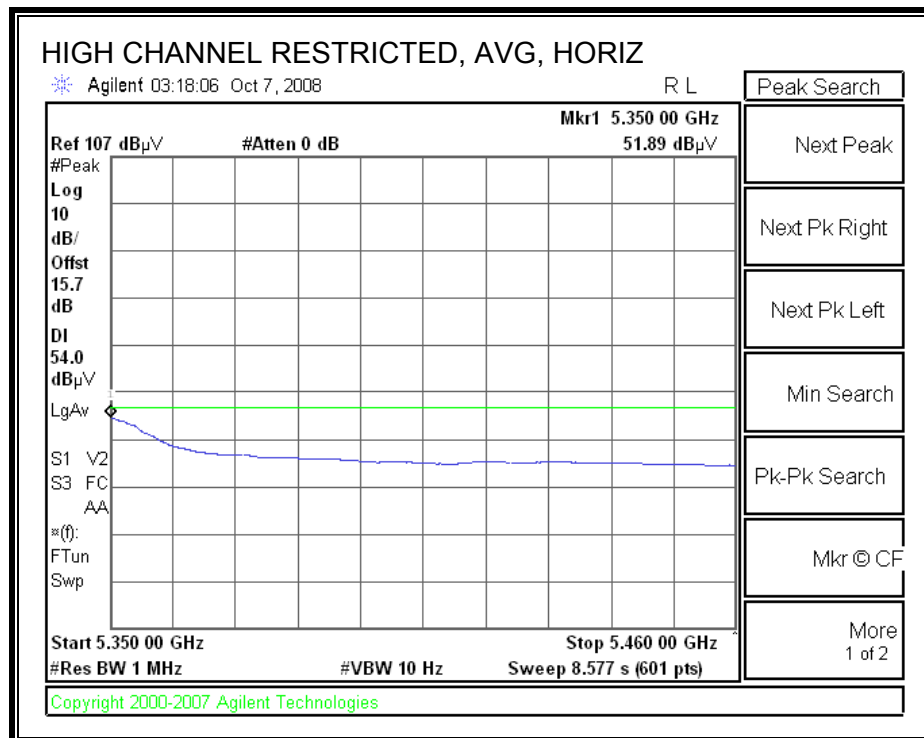
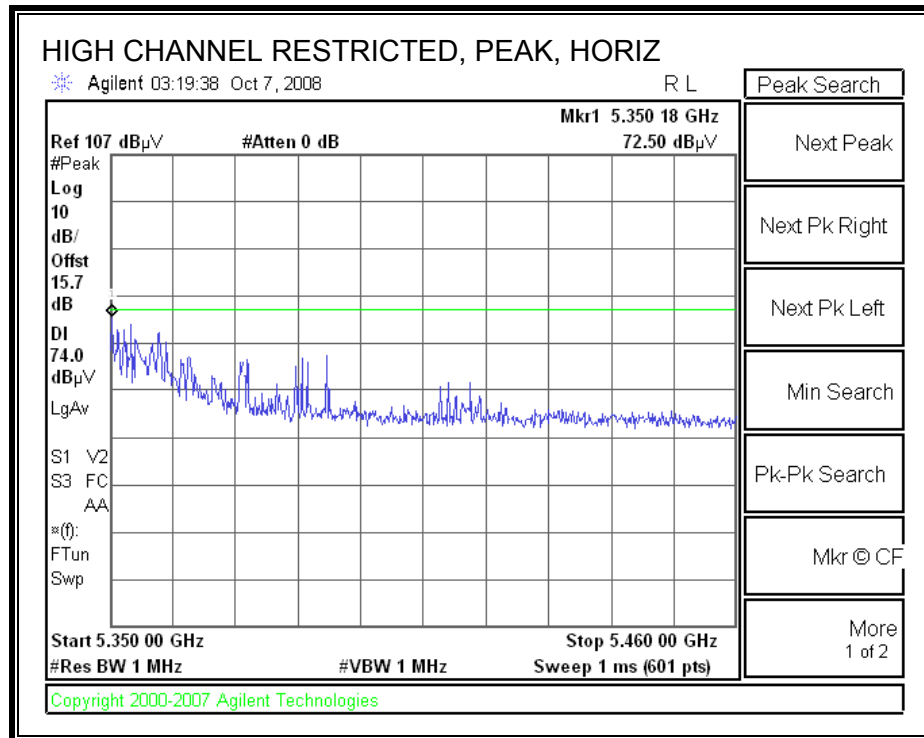


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

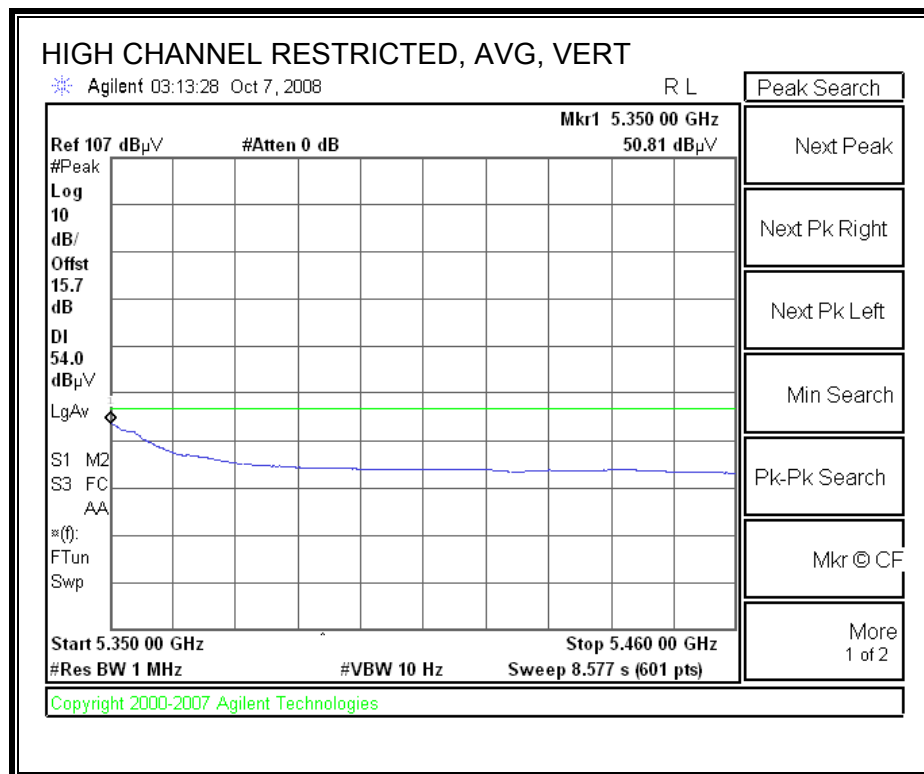
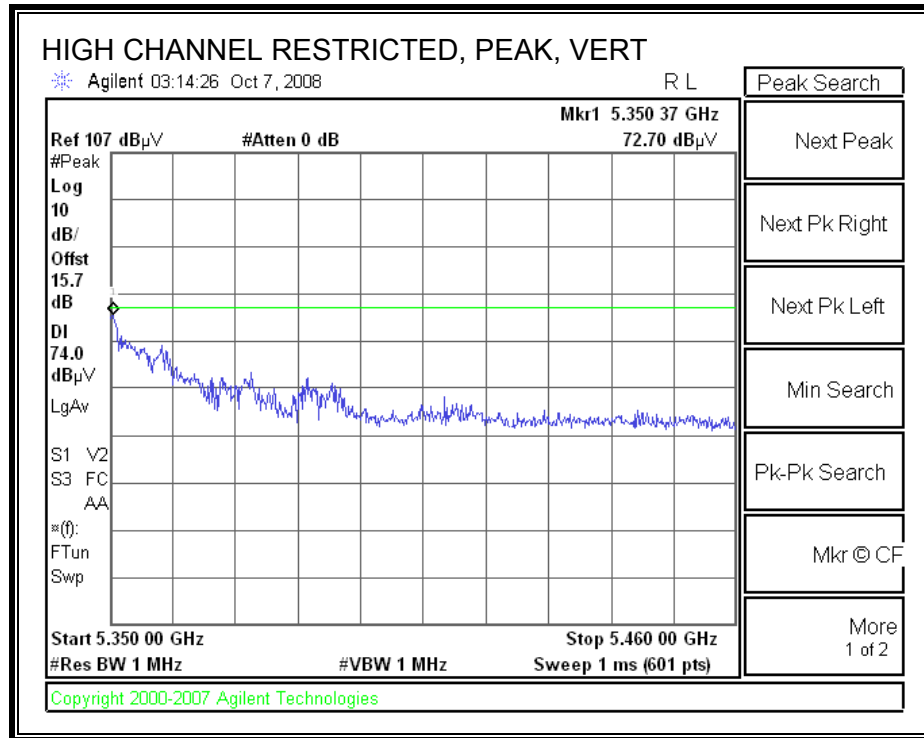


8.2.6. FOR 802.11n HT40 MODE IN THE 5.3 GHz-3TX

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 #: 08U12161
Date: 10/07/2008
Test Engineer: Chin Pang
Configuration: EUT only
Mode: TX a Mode HT40 2x3

Test Equipment:

Horn 1-18GHz T73; S/N: 6717 @3m	Pre-amplifier 1-26GHz T34 HP 8449B	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit FCC 15.205
Hi Frequency Cables				
2 foot cable	3 foot cable Thanh 187215003	12 foot cable C-5m Chamber	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	Ftr 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	41.2	28.0	42.5	10.9	-32.2	0.0	0.7	63.1	49.9	74	54	-10.9	-4.1	V
15.570	3.0	41.7	28.5	42.5	10.9	-32.2	0.0	0.7	63.6	50.4	74	54	-10.4	-3.6	H
Mid Ch, 5270MHz															
15.810	3.0	40.0	27.7	43.1	10.9	-32.2	0.0	0.7	62.6	50.3	74	54	-11.4	-3.7	V
15.810	3.0	40.7	28.0	43.1	10.9	-32.2	0.0	0.7	63.3	50.6	74	54	-10.7	-3.4	H
High Ch, 5310MHz															
10.620	3.0	39.3	27.6	38.2	9.7	-32.6	0.0	0.8	55.4	43.7	74	54	-18.6	-10.3	V
15.930	3.0	40.4	27.8	43.4	10.9	-32.1	0.0	0.7	63.3	50.7	74	54	-10.7	-3.3	V
10.620	3.0	40.5	28.0	38.2	9.7	-32.6	0.0	0.8	56.6	44.1	74	54	-17.4	-9.9	H
15.930	3.0	41.3	28.6	43.4	10.9	-32.1	0.0	0.7	64.2	51.5	74	54	-9.8	-2.5	H

Rev. 4127

Note: No other emissions were detected above the 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		

8.3. WORST-CASE BELOW 1 GHz

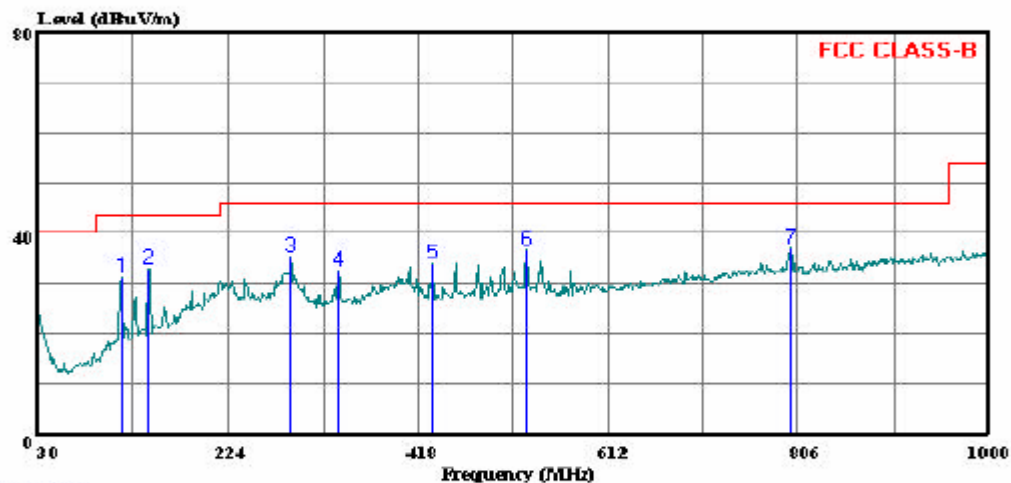
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



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

Data#: 4 File#: 08U12161.EMI Date: 10-09-2008 Time: 08:49:19



(Fremont)

Trace: 3

Ref Trace:

Condition: HORIZONTAL
Test Operator:: Chin Pang
Project #: 08U12161
Company: Intel
Configuration:: BUT Only
Mode: TX (Worst Case)
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	115.360	43.00	-12.00	31.00	43.50	-12.50	Peak
2	142.520	44.83	-11.95	32.89	43.50	-10.61	Peak
3	288.020	44.67	-9.45	35.22	46.00	-10.78	Peak
4	336.520	40.50	-8.10	32.40	46.00	-13.60	Peak
5	432.550	39.67	-5.84	33.83	46.00	-12.17	Peak
6	529.550	40.50	-3.81	36.69	46.00	-9.31	Peak
7	799.210	35.83	1.22	37.05	46.00	-8.95	Peak

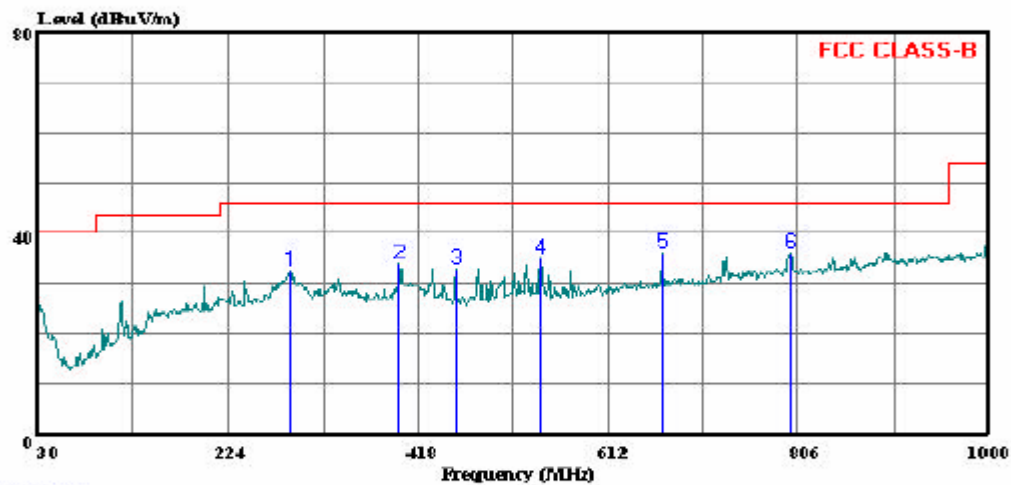
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL PLOT



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

Data#: 2 File#: 08U12161.EMI Date: 10-09-2008 Time: 08:38:17



(Fremont)

Trace: 1

Ref Trace:

Condition: VERTICAL
Test Operator:: Chin Pang
Project #: : 08U12161
Company: : Intel
Configuration:: BUT Only
Mode : : TX (Worst Case)
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	288.020	41.83	-9.45	32.39	46.00	-13.61	Peak
2	399.570	40.67	-6.76	33.90	46.00	-12.10	Peak
3	456.800	38.50	-5.45	33.05	46.00	-12.95	Peak
4	544.100	38.83	-3.69	35.14	46.00	-10.86	Peak
5	666.320	37.50	-1.33	36.17	46.00	-9.83	Peak
6	799.210	34.83	1.22	36.05	46.00	-9.95	Peak

9. 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

ANSI C63.4

RESULTS

6 WORST EMISSIONS

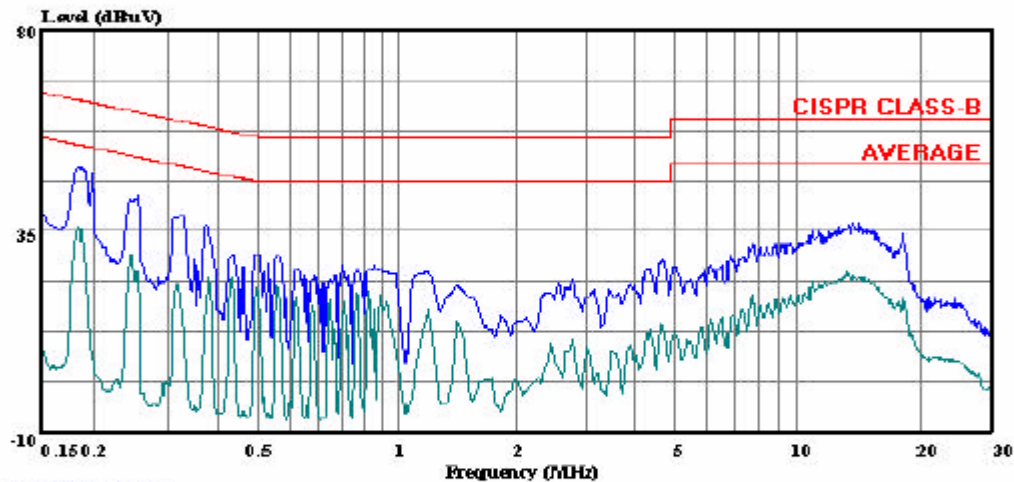
CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN_B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.18	49.12	--	36.24	0.00	64.35	54.35	-15.23	-18.11	L1
0.26	40.97	--	30.25	0.00	61.56	51.56	-20.59	-21.31	L1
13.84	36.82	--	25.31	0.00	60.00	50.00	-23.18	-24.69	L1
0.19	49.42	--	36.65	0.00	64.21	54.21	-14.79	-17.56	L2
0.25	43.09	--	30.60	0.00	61.89	51.89	-18.80	-21.29	L2
13.27	36.76	--	25.09	0.00	60.00	50.00	-23.24	-24.91	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#: 7 File#: 08u12161.EMI Date: 10-08-2008 Time: 10:23:56



(Line Conduction)

Trace: 5

Ref Trace:

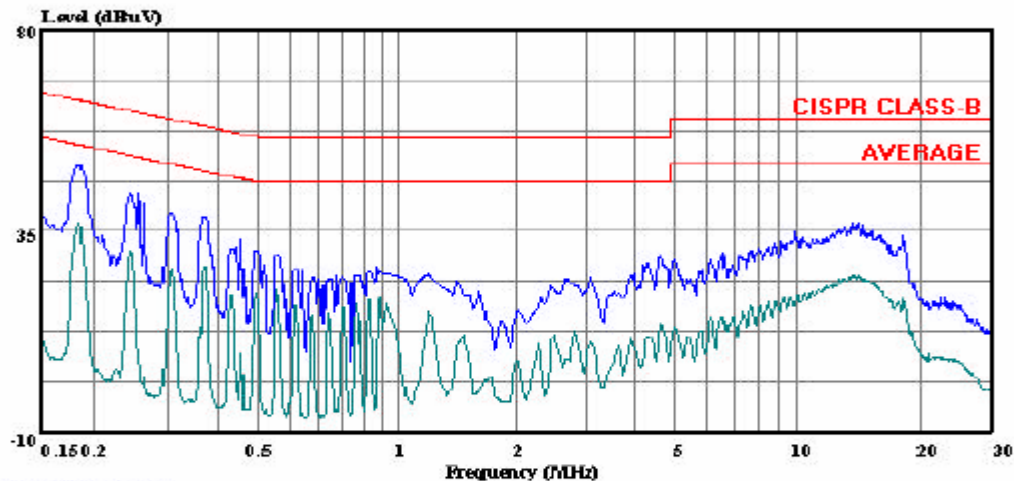
Condition: CISPR CLASS-B
Test Operator:: Chin Pang
Project #: : 08U12161
Company: : Intel
Configuration: BUT Only
Mode: : Transmitt Worst case
Target: : FCC Class B
Voltage: : 115VAC / 60Hz
: L1: Peak (Blue); Average (Green)

LINE 2 RESULTS



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

Data#: 7 File#: 08u12161 L2.EMI Date: 10-08-2008 Time: 10:58:28



(Line Conduction)

Trace: 5

Ref Trace:

Condition: CISPR CLASS-B
Test Operator: Chin Pang
Project #: 08U12161
Company: Intel
Configuration: EUT Only
Mode: Transmitt Worst case
Target: FCC Class B
Voltage: 115VAC / 60Hz
: L2: Peak (Blue); Average (Green)

10. SETUP PHOTOS

RADIATED RF MEASUREMENT SETUP FOR MOBILE CONFIGURATION

RADIATED FRONT PHOTO



RADIATED BACK PHOTO



RADIATED RF MEASUREMENT SETUP FOR PORTABLE CONFIGURATION

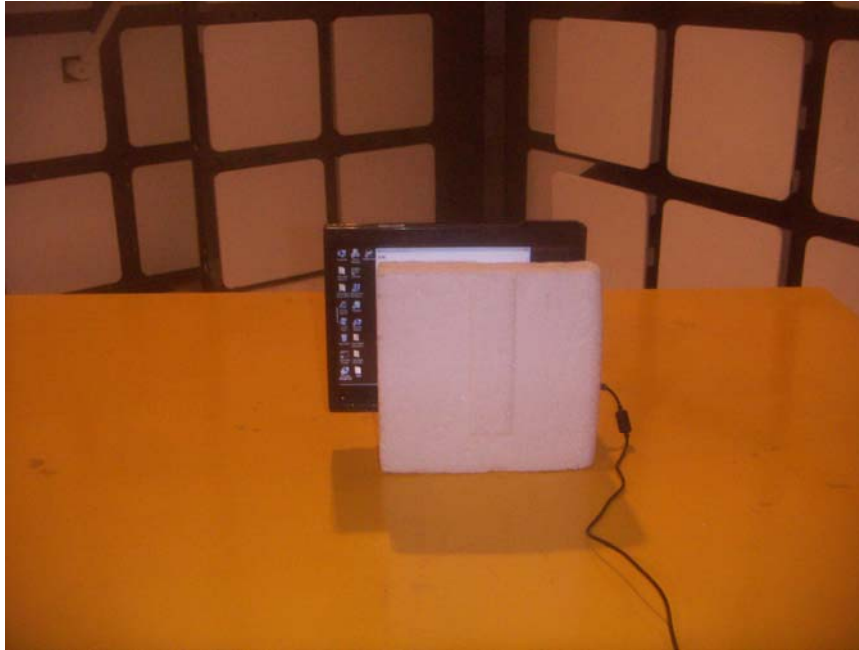
X-AXIS FRONT PHOTO



X-AXIS BACK PHOTO



Y-AXIS FRONT PHOTO



Y-AXIS BACK PHOTO



Z-AXIS FRONT PHOTO



Z-AXIS BACK PHOTO



POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP

LINE CONDUCTED FRONT PHOTO



LINE CONDUCTED BACK PHOTO



END OF REPORT