



**FCC CFR47 PART 15 SUBPART E  
INDUSTRY CANADA RSS-210 ISSUE 8  
CLASS II PERMISSIVE CHANGE**

**CERTIFICATION TEST REPORT**

**FOR**

**MIC-A2 FCC/IC C2PC**

**MODEL NUMBER: MIC-A2**

**FCC ID: MCLMICA2  
IC: 2878D-MICA2**

**REPORT NUMBER: 12J14215-2, Revision A**

**ISSUE DATE: JANUARY 27, 2012**

*Prepared for*  
**HON HAI PRECISION IND. CO., LTD.  
5F-1, 5 HSIN-AN ROAD  
HSINCHU SCIENCE-BASED INDUSTRIAL PARK  
TAIWAN, R.O.C.**

*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>
--	01/18/12	Initial Issue	F. Ibrahim
A	01/27/12	Updated manufacturer and added antenna information	A. Zaffar

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** HON HAI PRECISION IND. CO., LTD.  
5F-1, 5 HSIN-AN ROAD  
HSINCHU SCIENCE-BASED INDUSTRIAL PARK  
TAIWAN, R.O.C.

**EUT DESCRIPTION:** MIC-A2 FCC/IC C2PC

**MODEL:** MIC-A2

**SERIAL NUMBER:** DK410 002

**DATE TESTED:** JANUARY 09-17, 2012

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	(Radiated and LC) PASS
INDUSTRY CANADA RSS-210 Issue 8 Annex 9	(Radiated and LC) PASS
INDUSTRY CANADA RSS-GEN Issue 3	(Radiated and LC) PASS

Compliance Certification Services (UL 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 UL CCS based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. 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 UL CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL CCS will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL CCS By:



FRANK IBRAHIM  
EMC SUPERVISOR  
UL CCS

Tested By:



CHIN PANG  
EMC ENGINEER  
UL CCS

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 06-96, RSS-GEN Issue 3, and RSS-210 Issue 8.

## 3. FACILITIES AND ACCREDITATION

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

UL 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. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

### 4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

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

## **5. EQUIPMENT UNDER TEST**

### **5.1. DESCRIPTION OF EUT**

The EUT is WIFI Module with 802.11A/HT20.

The radio module is manufactured by Hon Hai Precision.

### **5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE**

The major change filed under this application is EUT module, MIC-A2 is installed inside the specific host.

### **5.3. MAXIMUM OUTPUT POWER**

The output power values were verified to be within +/- 0.5 dB from the original values under report number 11J13871-1 FCC IC DTS WLAN report.

### **5.4. DESCRIPTION OF AVAILABLE ANTENNAS**

The radio utilizes a PiFA antenna for TX/RX diversity, with a maximum gain of 2.55dBi as the original filing, and the antenna gain of this C2PC filing is 0.23dBi.

### **5.5. SOFTWARE AND FIRMWARE**

The firmware installed in the EUT during testing was DRC Ver. 8.3.3426, UMI FW Ver. 19.0.35.

The EUT driver software installed during testing was Broadcom, rev. 5.100.82.54.

The test utility software used during testing was BCM Internal, rev. 5.100.RC82.54.

### **5.6. WORST-CASE CONFIGURATION AND MODE**

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 SISO mode were made at MCS0.

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

To determine the worst-position of highest emissions, the EUT was investigated for X, Y, Z positions, and the worst position was turned out to be at X-position with AC Adapter.

## 5.7. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Dell	Latitude D430	NA	DoC
Laptop AC Adapter	Dell	LA65NS1-00	CN-OYD637-71615-8B6-263A	DOC
Evaluation Board	Broadcom	BCM9SANAD	1379054	NA
AC Adapter	JSP	PSAA10R-050	P112900695A1	DoC

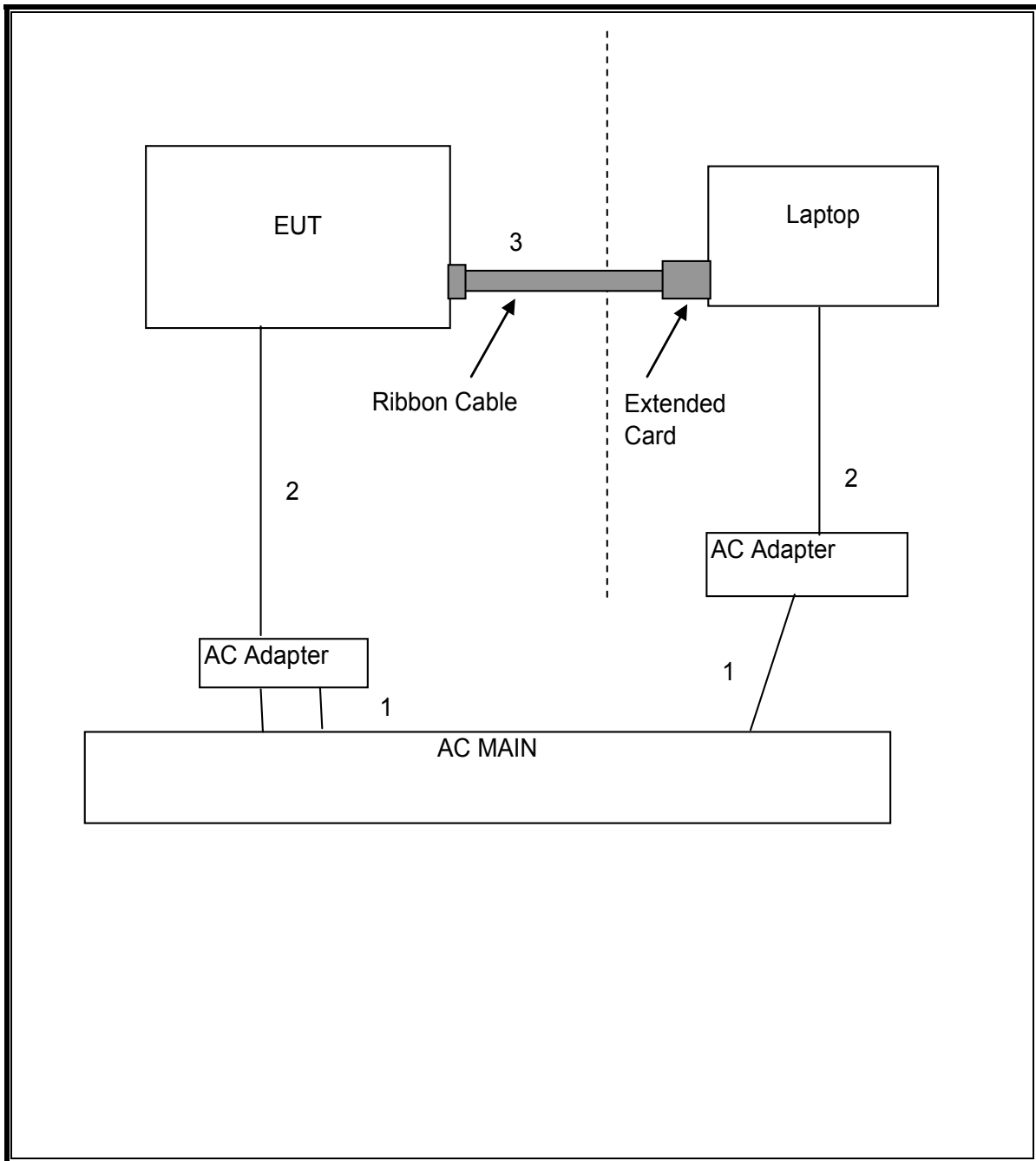
### I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	2	US 115V	Un-shielded	1m	NA
2	DC	2	DC	Un-shielded	1.5m	NA
3	I/O	1	Ribbon	Un-shielded	0.5m	NA

### TEST SETUP

A Laptop is connected to the EUT via a ribbon cable for setup and removed 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	07-12-12
Antenna, Horn, 18 GHz	EMCO	3115	C00872	06-29-12
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	07-16-12
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01-27-12
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01179	04-19-12
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00996	05-04-12
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	07-28-12
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	11-10-12
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	None	07-06-12
Highpass Filter, 7.6 GHz	Micro-Tronics	HPM13195	N02601	CNR

## 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.

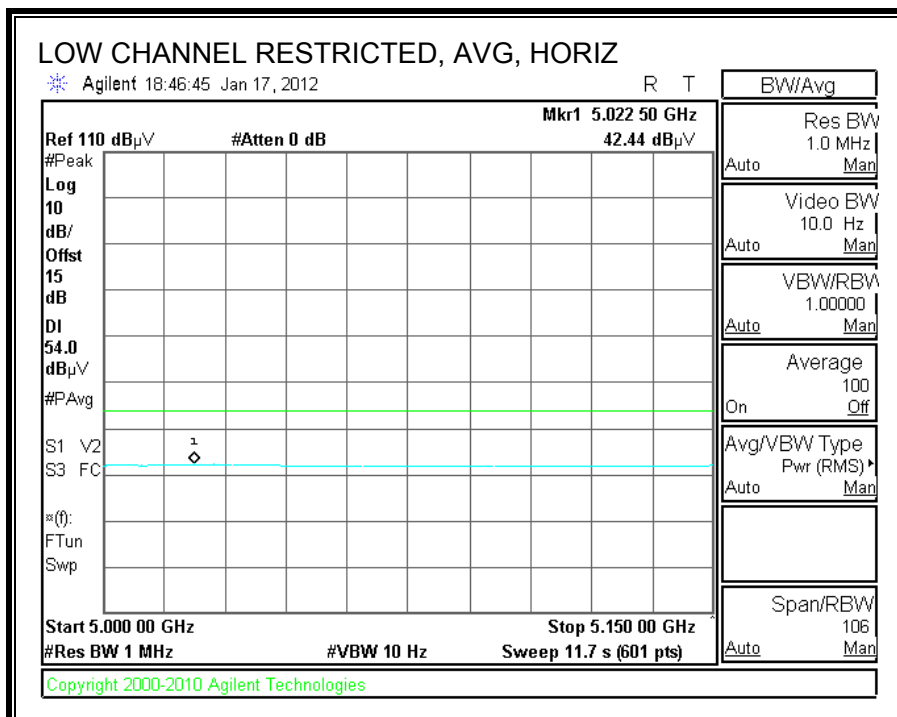
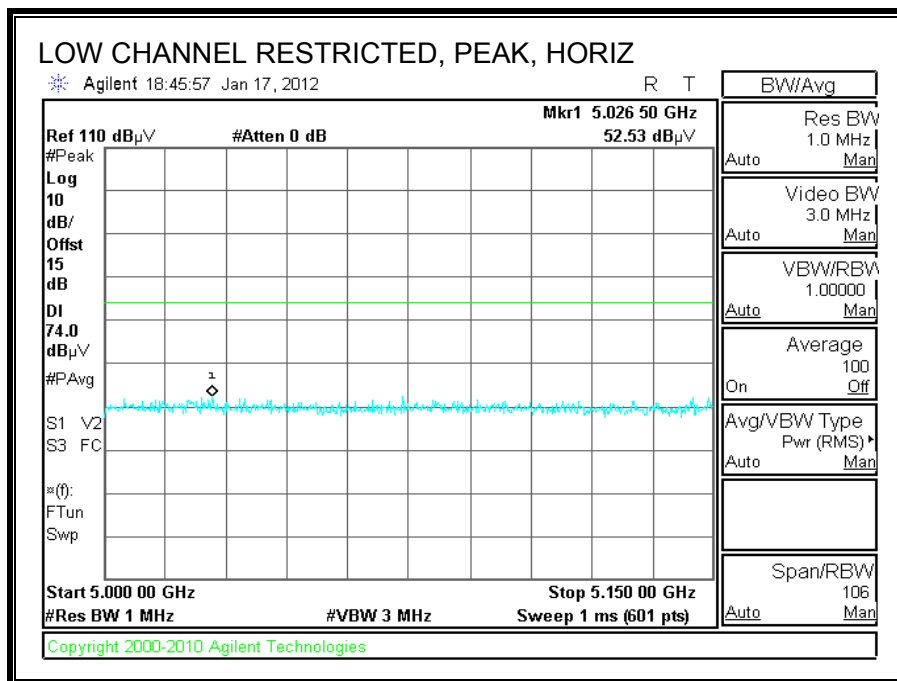
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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.

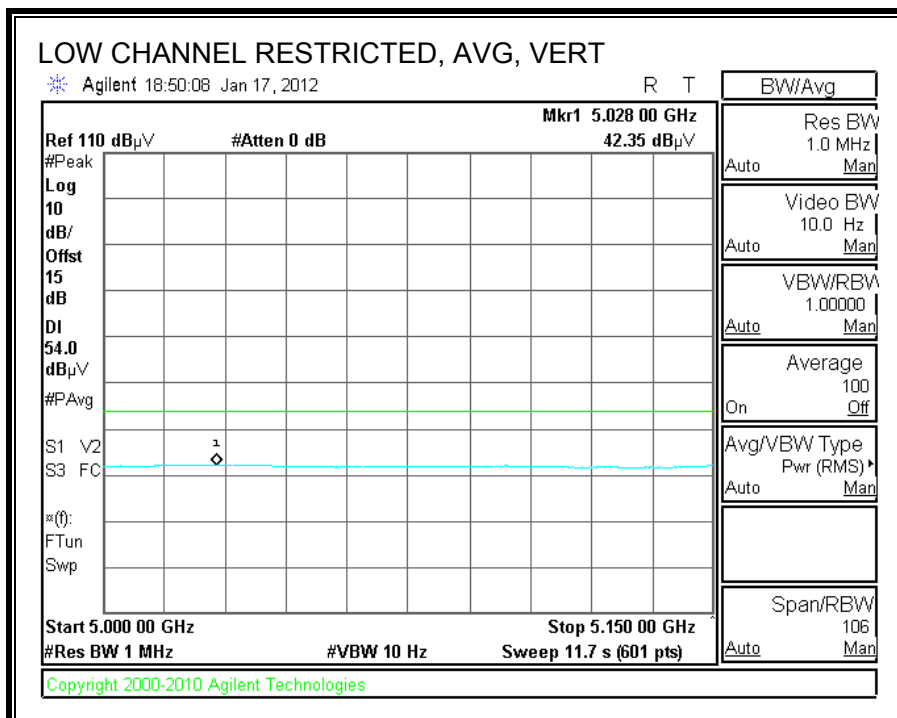
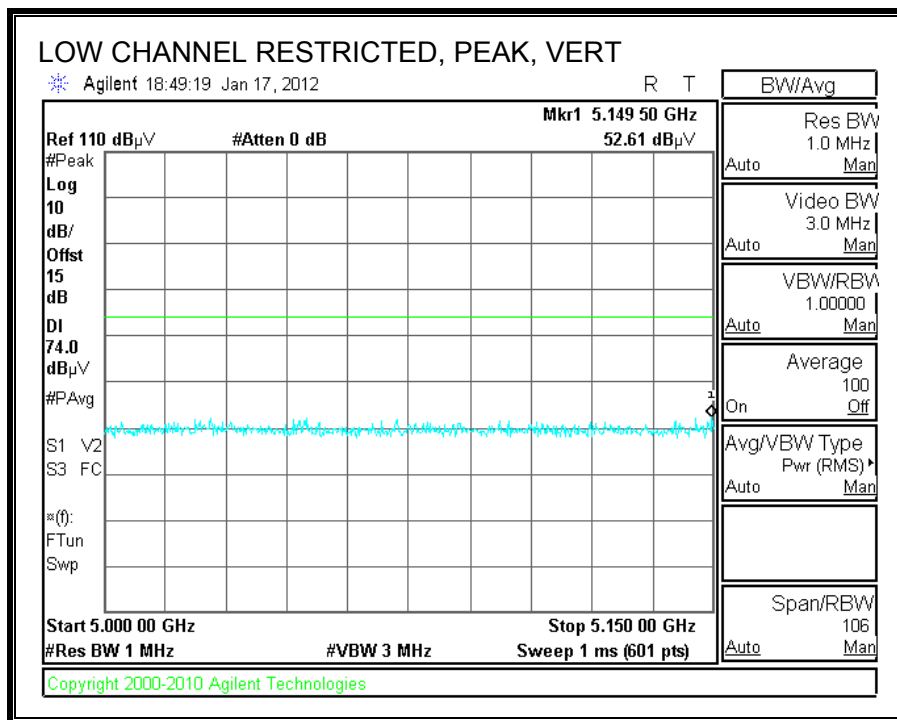
## 7.2. TRANSMITTER ABOVE 1 GHz

### 7.2.1. TX ABOVE 1 GHz FOR 802.11a IN THE LOWER 5.2 GHz BAND

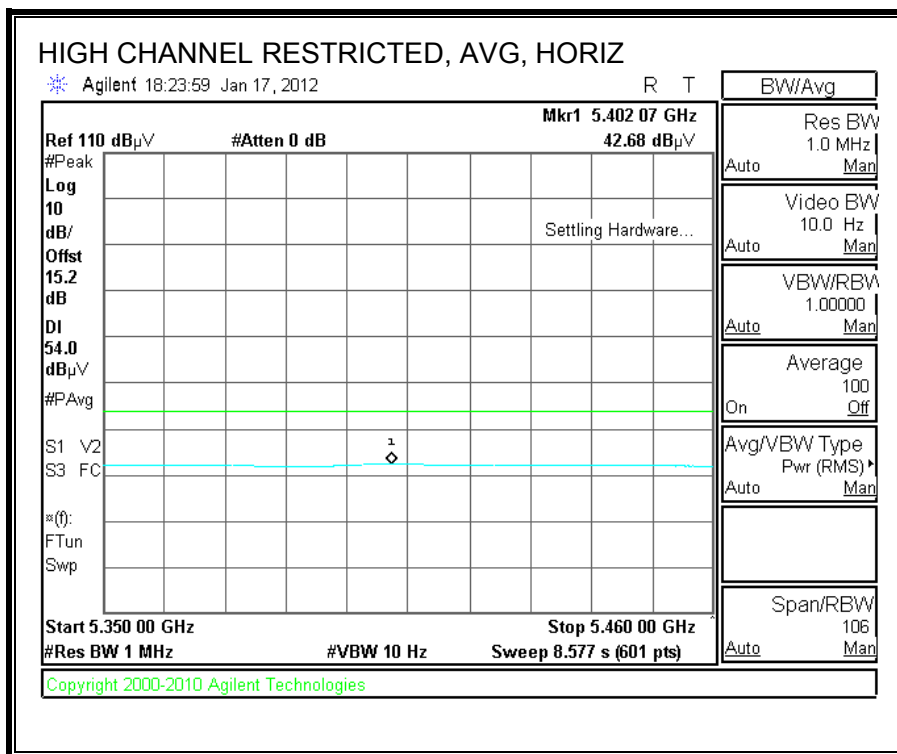
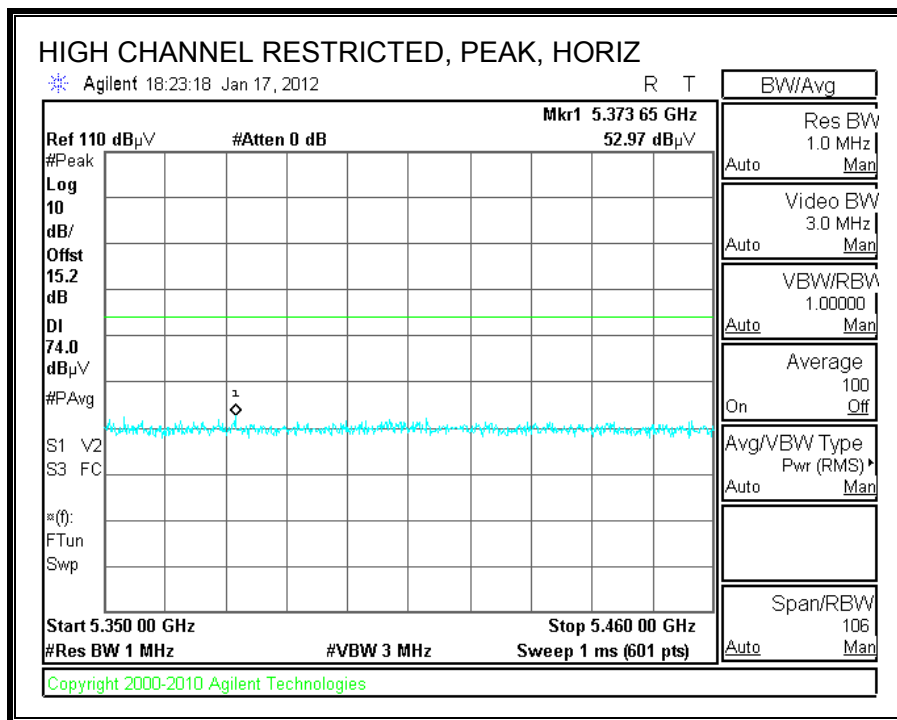
#### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



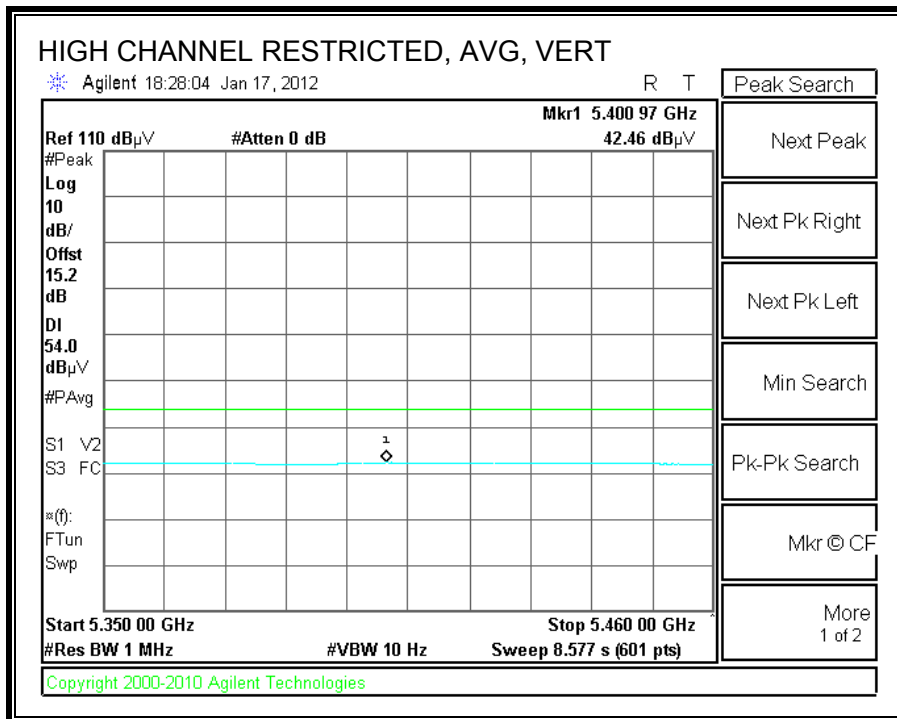
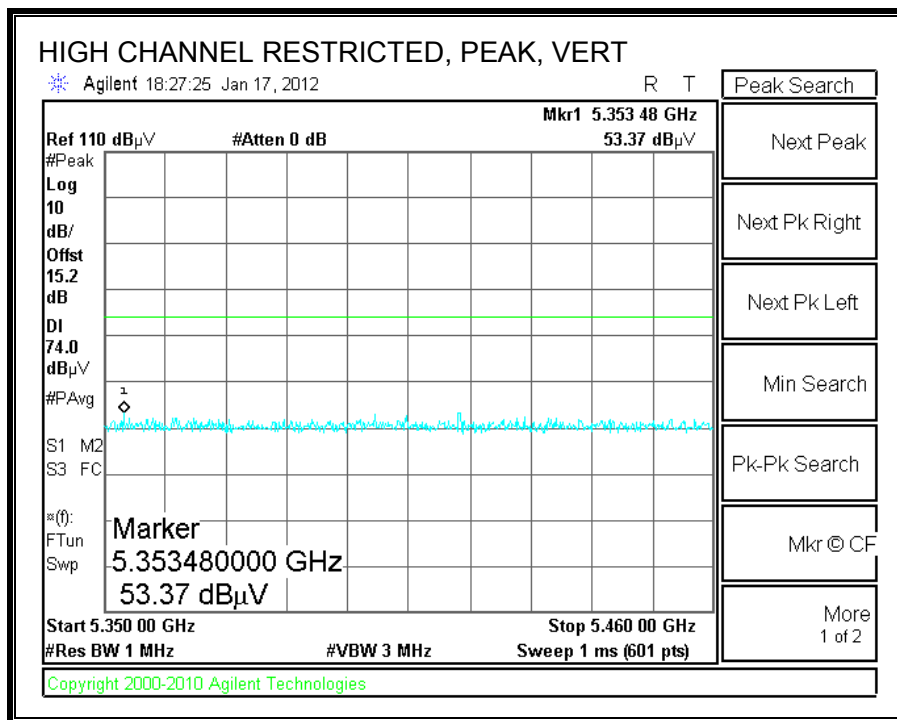
**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**



**RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**



**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

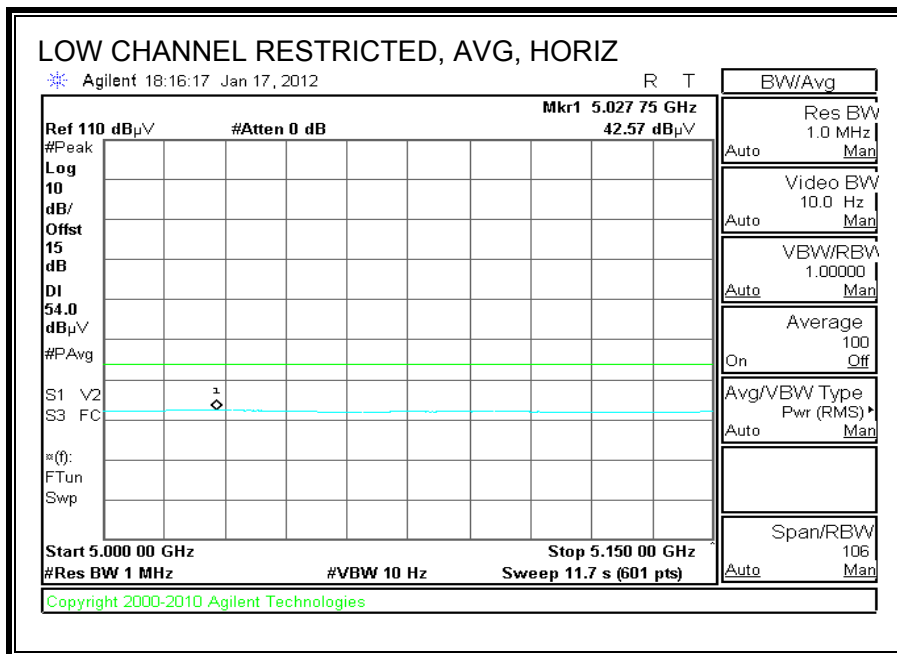
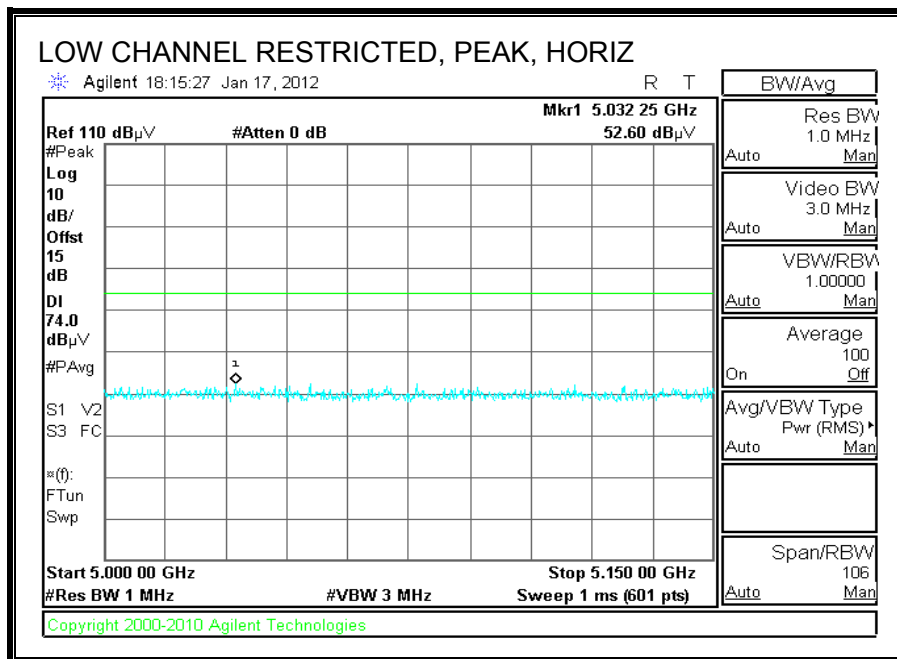


**HARMONICS AND SPURIOUS EMISSIONS**

High Frequency Measurement													
Compliance Certification Services, Fremont 5m Chamber													
Test Engr:		Chin Pang											
Date:		01/10/12											
Project #:		12J14215											
Company:		Hon Hai											
Test Target:		FCC 15/407											
Mode Oper:		Legacy, 5.2GHz											
f	Measurement Frequency			Amp	Preamp Gain			Average Field Strength Limit					
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Peak Field Strength Limit					
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Margin vs. Average Limit					
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Margin vs. Peak Limit					
CL	Cable Loss			HPF	High Pass Filter								
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
<b>Low Ch, 5180MHz</b>													
15.540	3.0	35.2	39.1	13.0	-32.2	0.0	0.7	55.8	74.0	-18.2	V	P	
15.540	3.0	24.2	39.1	13.0	-32.2	0.0	0.7	44.8	54.0	-9.2	V	A	
15.540	3.0	35.3	39.1	13.0	-32.2	0.0	0.7	55.9	74.0	-18.1	H	P	
15.540	3.0	24.3	39.1	13.0	-32.2	0.0	0.7	44.9	54.0	-9.1	H	A	
<b>Mid Ch, 5200MHz</b>													
15.600	3.0	36.0	38.8	13.0	-32.2	0.0	0.7	56.4	74.0	-17.6	V	P	
15.600	3.0	24.4	38.8	13.0	-32.2	0.0	0.7	44.8	54.0	-9.2	V	A	
15.600	3.0	34.7	38.8	13.0	-32.2	0.0	0.7	55.1	74.0	-18.9	H	P	
15.600	3.0	24.2	38.8	13.0	-32.2	0.0	0.7	44.6	54.0	-9.4	H	A	
<b>High Ch, 5240MHz</b>													
15.720	3.0	36.2	38.4	13.1	-32.2	0.0	0.7	56.2	74.0	-17.8	V	P	
15.720	3.0	24.5	38.4	13.1	-32.2	0.0	0.7	44.5	54.0	-9.5	V	A	
15.720	3.0	36.4	38.4	13.1	-32.2	0.0	0.7	56.4	74.0	-17.6	H	P	
15.720	3.0	24.6	38.4	13.1	-32.2	0.0	0.7	44.6	54.0	-9.4	H	A	
Rev. 4.1.2.7													
Note: No other emissions were detected above the system noise floor.													

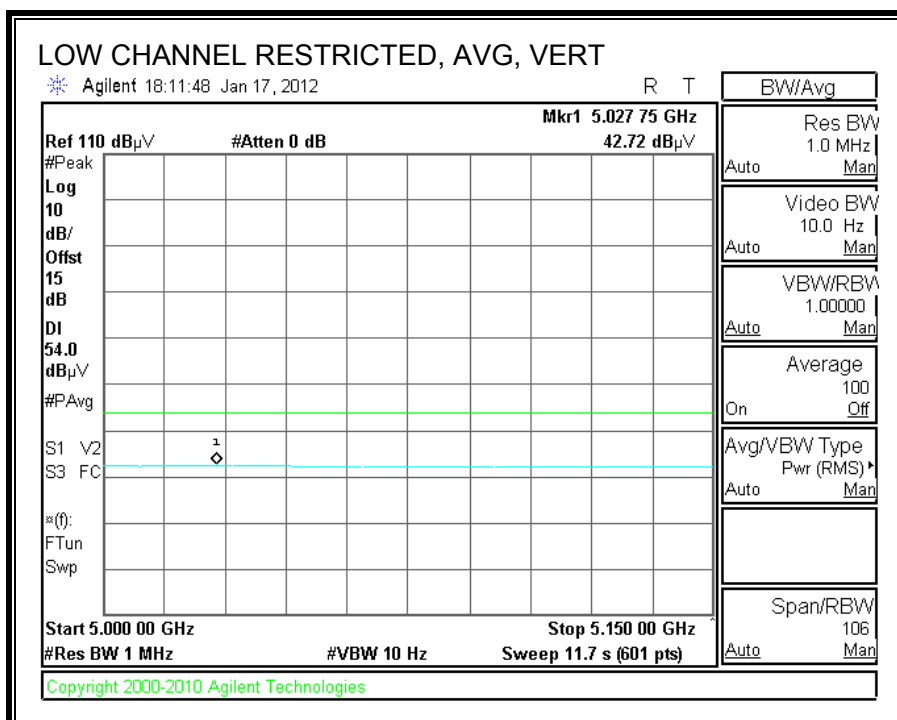
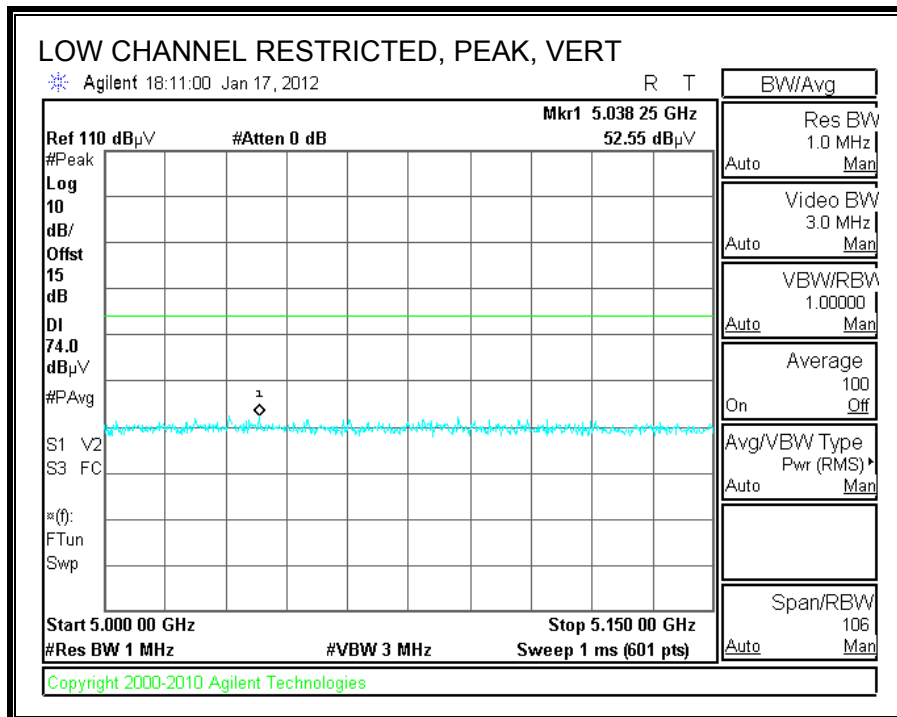
### 7.2.2. TX ABOVE 1 GHz FOR 802.11n HT20 IN THE LOWER 5.2 GHz BAND

#### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

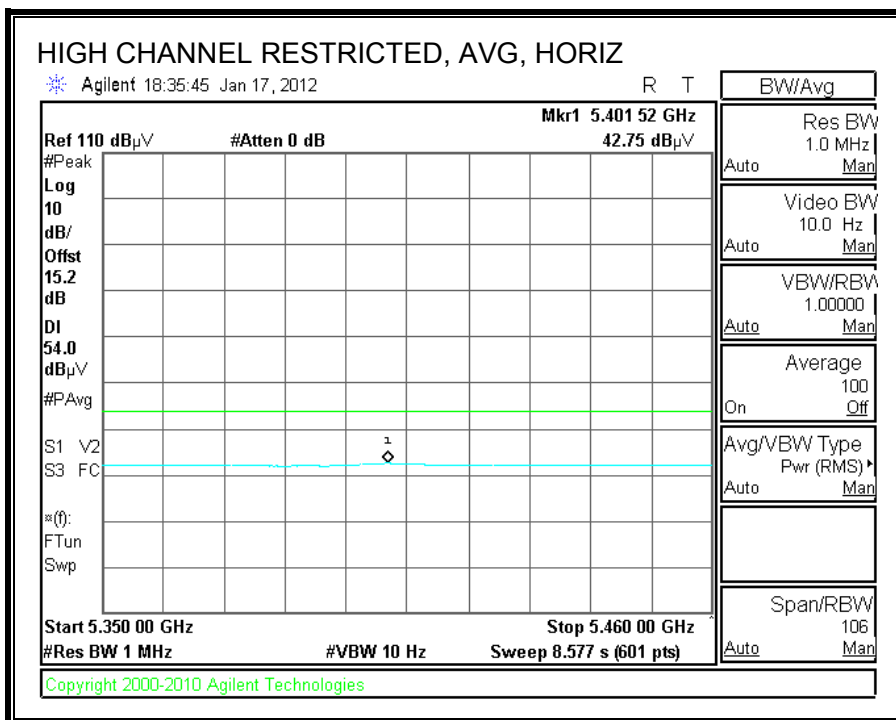
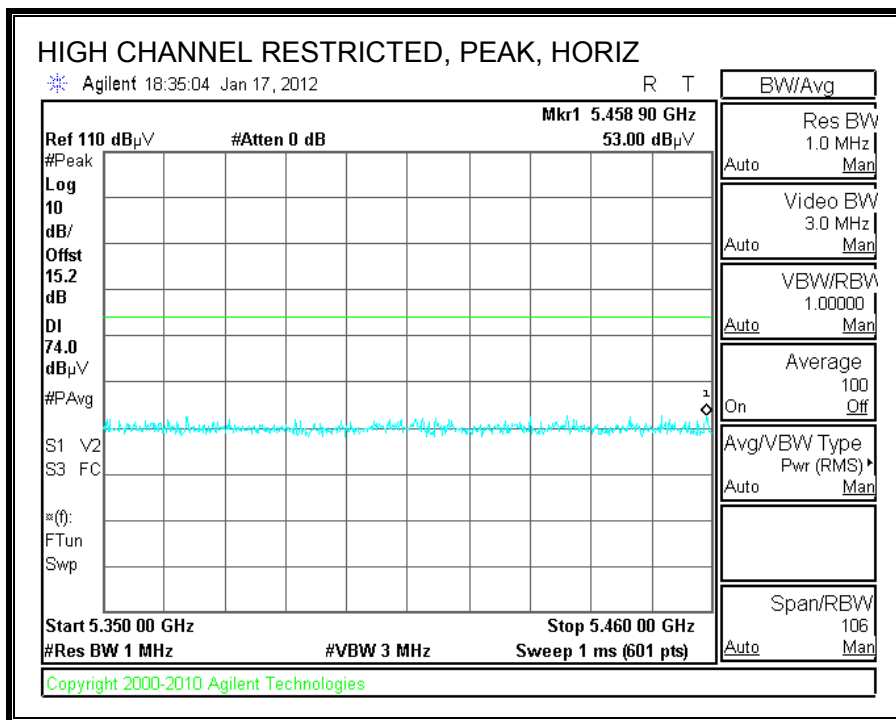




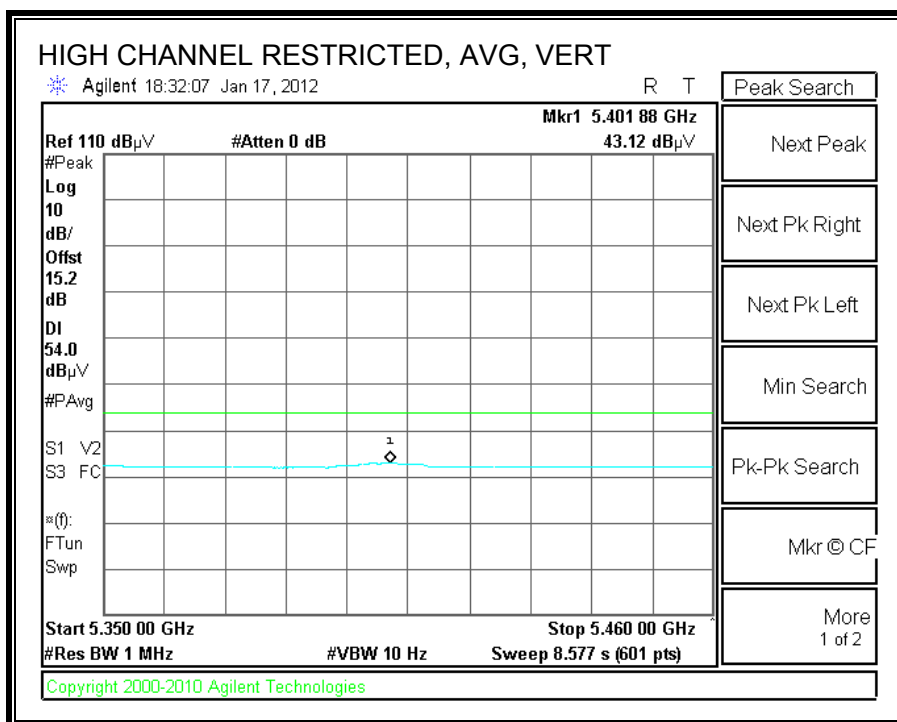
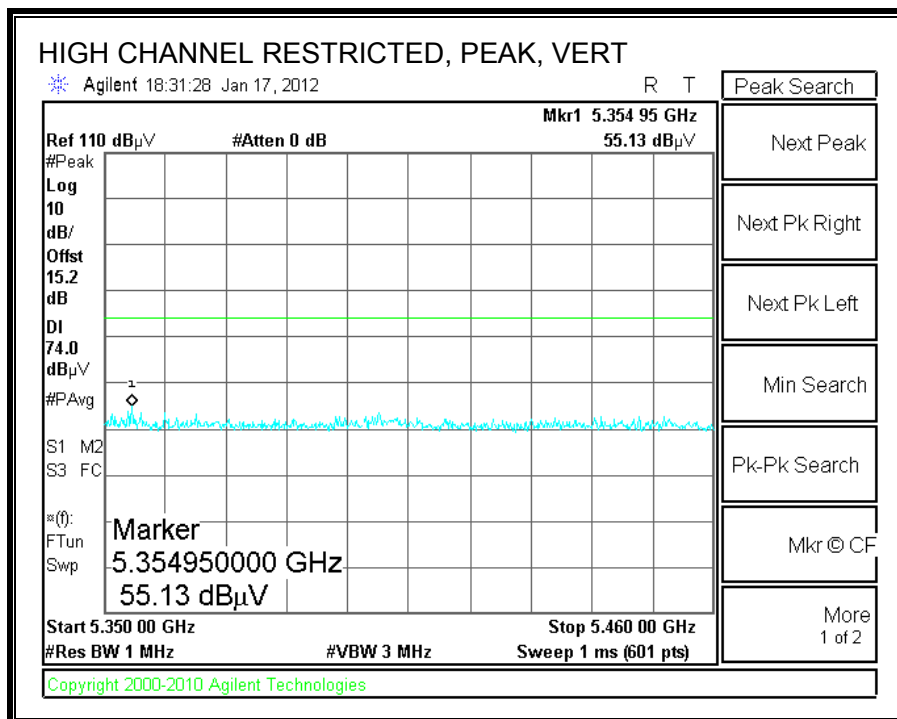
**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**



**RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**



**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**



**HARMONICS AND SPURIOUS EMISSIONS**

High Frequency Measurement													
Compliance Certification Services, Fremont 5m Chamber													
Test Engr:		Chin Pang											
Date:		01/10/12											
Project #:		12J14215											
Company:		Hon Hai											
Test Target:		FCC 15.407											
Mode Oper:		TX, 5.2GHz, HT20											
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit									
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit									
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit									
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit									
CL	Cable Loss	HPF	High Pass Filter										
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fitr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
<b>Low Ch, 5180MHz</b>													
15.540	3.0	35.6	39.1	13.0	-32.2	0.0	0.7	56.2	74.0	-17.8	H	P	
15.540	3.0	24.3	39.1	13.0	-32.2	0.0	0.7	44.9	54.0	-9.1	H	A	
15.540	3.0	35.4	39.1	13.0	-32.2	0.0	0.7	56.0	74.0	-18.0	V	P	
15.540	3.0	24.2	39.1	13.0	-32.2	0.0	0.7	44.8	54.0	-9.2	V	A	
<b>Mid Ch, 5200MHz</b>													
15.600	3.0	36.1	38.8	13.0	-32.2	0.0	0.7	56.5	74.0	-17.5	H	P	
15.600	3.0	24.3	38.8	13.0	-32.2	0.0	0.7	44.7	54.0	-9.3	H	A	
15.600	3.0	37.3	38.8	13.0	-32.2	0.0	0.7	57.7	74.0	-16.3	V	P	
15.600	3.0	24.6	38.8	13.0	-32.2	0.0	0.7	45.0	54.0	-9.0	V	A	
<b>High Ch, 5240MHz</b>													
15.720	3.0	36.2	38.4	13.1	-32.2	0.0	0.7	56.2	74.0	-17.8	H	P	
15.720	3.0	24.3	38.4	13.1	-32.2	0.0	0.7	44.3	54.0	-9.7	H	A	
15.720	3.0	26.0	38.4	13.1	-32.2	0.0	0.7	46.0	74.0	-28.0	V	P	
15.720	3.0	24.1	38.4	13.1	-32.2	0.0	0.7	44.1	54.0	-9.9	V	A	
Rev. 4.1.2.7													
Note: No other emissions were detected above the system noise floor.													

### 7.3. RECEIVER ABOVE 1 GHz FOR 20 MHz BANDWIDTH IN THE 5.2 GHz BAND

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 3m Chamber

Company: Hon Hai  
 Project #:   
 Date: 2012-1-10  
 Test Engineer: Chin Pang  
 Configuration: EUT and Laptop  
 Mode: RX, HT20 5.2GHz Band

**Test Equipment:**

<b>Horn 1-18GHz</b>	<b>Pre-amplifier 1-26GHz</b>	<b>Pre-amplifier 26-40GHz</b>	<b>Horn &gt; 18GHz</b>	<b>Limit</b>
T60: S/N: 2238 @3m	T34 HP 8449B			FCC 15.209

Hi Frequency Cables

<b>3' cable 22807700</b>	<b>12' cable 22807600</b>	<b>20' cable 22807500</b>	<b>HPF</b>	<b>Reject Filter</b>	<b>Peak Measurements</b> RBW=VBW=1MHz
3' cable 22807700	12' cable 22807600	20' cable 22807500			<b>Average Measurements</b> RBW=1MHz ; VBW=10Hz

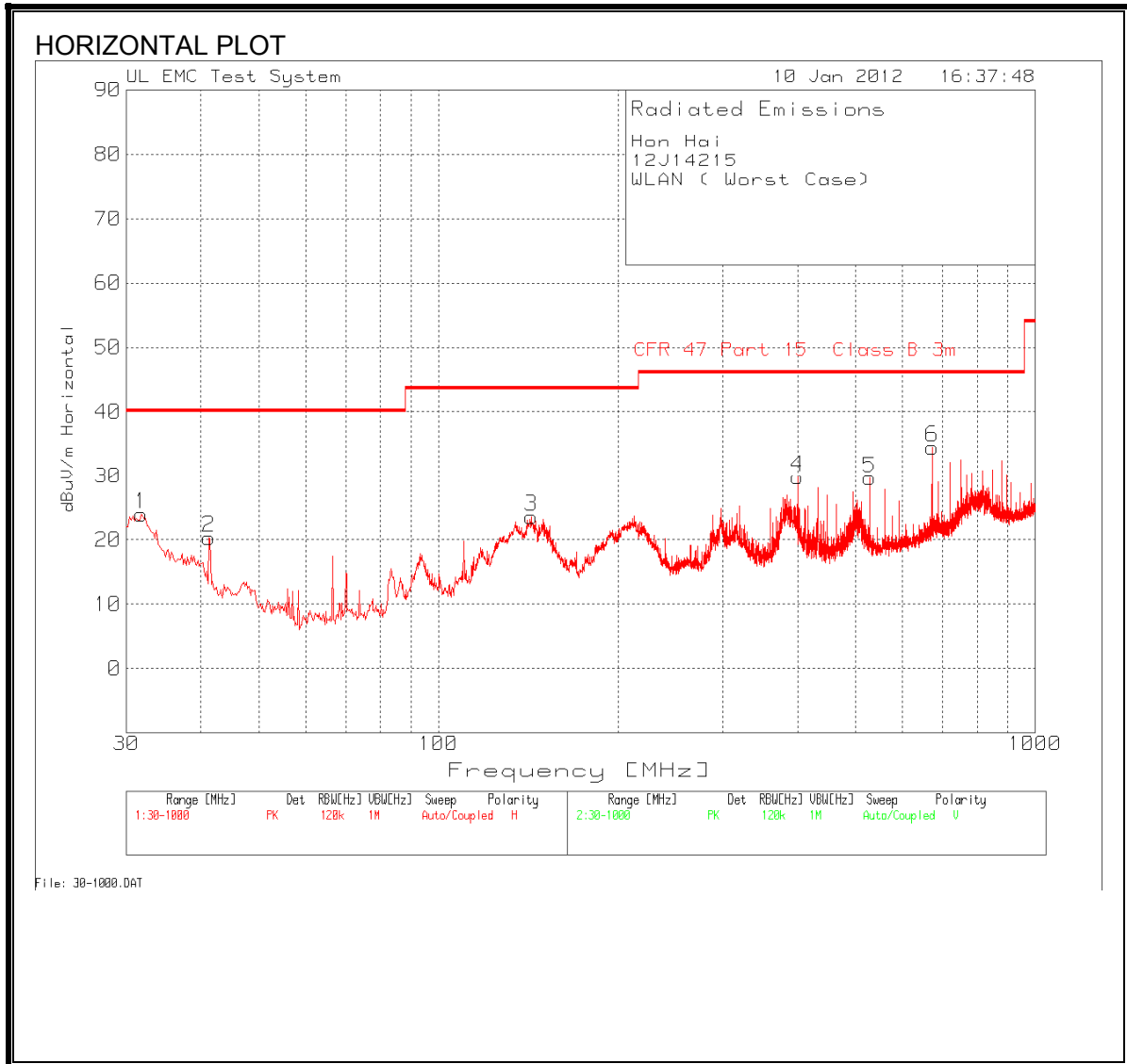
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fitr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
1.065	3.0	54.2	34.8	25.1	2.8	-37.7	0.0	0.0	44.4	25.0	74	54	-29.6	-29.0	V
1.593	3.0	52.6	33.1	26.8	3.5	-36.9	0.0	0.0	46.0	26.5	74	54	-28.0	-27.5	V
2.660	3.0	54.4	29.6	29.3	4.8	-35.5	0.0	0.0	53.0	28.2	74	54	-21.0	-25.8	V
1.063	3.0	53.6	36.2	25.1	2.8	-37.7	0.0	0.0	43.8	26.4	74	54	-30.2	-27.6	H
1.597	3.0	53.5	33.0	26.8	3.5	-36.9	0.0	0.0	46.9	26.4	74	54	-27.1	-27.6	H
2.213	3.0	49.7	30.0	28.3	4.3	-36.0	0.0	0.0	46.3	26.6	74	54	-27.7	-27.4	H

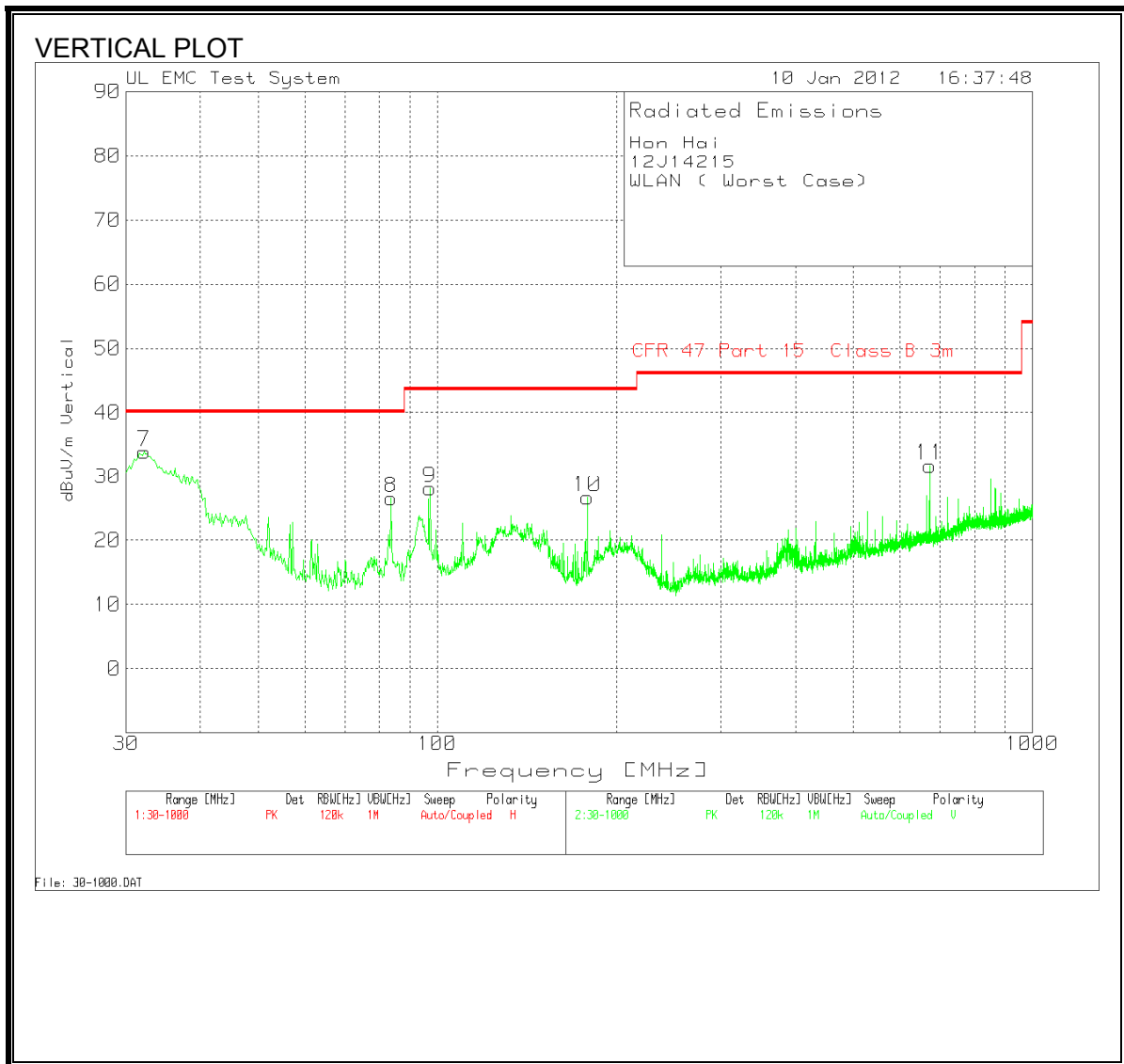
Rev. 07.08.11

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. WORST-CASE BELOW 1 GHz

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





HORIZONTALAND VERTICAL DATA

Hon Hai								
12J14215								
WLAN ( Worst Case)								
Tested By Chin Pang								
Jan-10-2012								
Range 1 30 - 1000MHz								
Frequency	Reading	Detector	Amp Factor[dB]	Ant Factors[dB]	dBuV/m	Part 15B	Margin	Polarity
31.7446	33.68	PK	-29.2	19.5	23.98	40	-16.02	Horz
41.243	36.21	PK	-29.2	13.3	20.31	40	-19.69	Horz
143.0116	38.64	PK	-28.1	13	23.54	43.5	-19.96	Horz
399.8561	41.79	PK	-27	15	29.79	46	-16.21	Horz
527.9876	39.42	PK	-27	17.2	29.62	46	-16.38	Horz
672.0144	41.79	PK	-26.3	19	34.49	46	-11.51	Horz
Range 2 30 - 1000MHz								
Frequency	Reading	Detector	Amp Factor[dB]	Ant Factors[dB]	dBuV/m	Part 15B	Margin	Polarity
32.1323	43.69	PK	-29.2	19.4	33.89	40	-6.11	Vert
83.695	47.6	PK	-28.7	7.6	26.5	40	-13.5	Vert
97.2642	47.32	PK	-28.6	9.4	28.12	43.5	-15.38	Vert
178.8729	43.76	PK	-27.8	10.7	26.66	43.5	-16.84	Vert
672.0144	39.01	PK	-26.3	19	31.71	46	-14.29	Vert



## 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 <sup>*</sup>	56 to 46 <sup>*</sup>
0.5-5	56	46
5-30	60	50

<sup>\*</sup> 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.

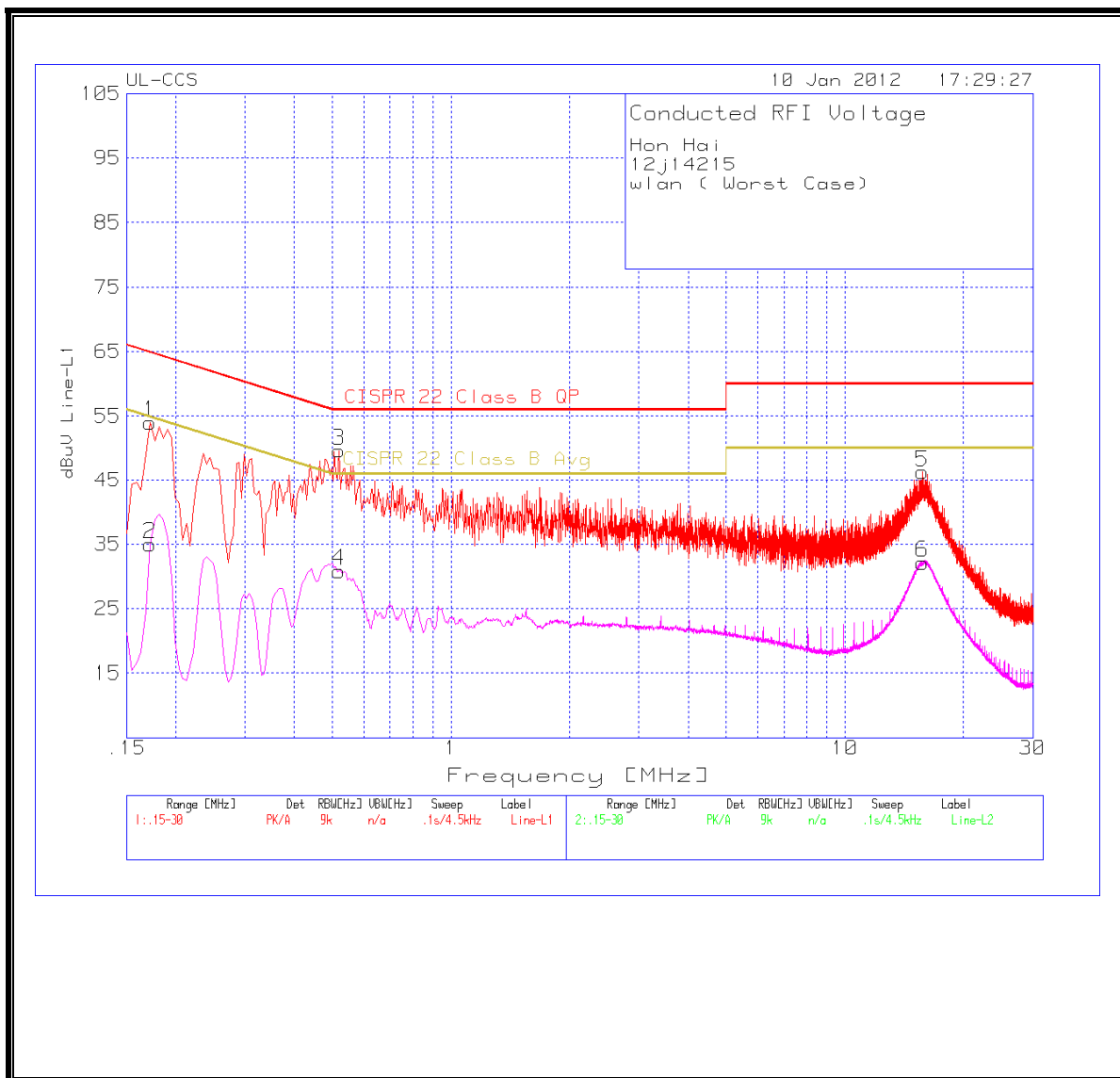
Line conducted data is recorded for both NEUTRAL and HOT lines.

**RESULTS**

**6 WORST EMISSIONS**

Hon Hai										
12j14215										
wlan ( Worst Case)										
Tested By Chin Pang										
Jan-10-2012										
Line-L1 .15 - 30MHz										
Frequency	Reading	Detector	T24 IL L1[dB]	LC Cables[dB]	dBuV	CISPR 22B	Margin	CISPR 22B	Margin	
0.1725	53.86	PK	0.1	0	53.96	64.8	-10.84	-	-	
0.1725	34.85	Av	0.1	0	34.95	-	-	54.8	-19.85	
0.519	49.56	PK	0.1	0	49.66	56	-6.34	-	-	
0.519	30.75	Av	0.1	0	30.85	-	-	46	-15.15	
15.738	45.9	PK	0.2	0.2	46.3	60	-13.7	-	-	
15.738	31.76	Av	0.2	0.2	32.16	-	-	50	-17.84	
Line-L2 .15 - 30MHz										
Frequency	Reading	Detector	T24 IL L1[dB]	LC Cables[dB]	dBuV	CISPR 22B	Margin	CISPR 22B	Margin	
0.177	52.11	PK	0.1	0	52.21	64.6	-12.39	-	-	
0.177	34.92	Av	0.1	0	35.02	-	-	54.6	-19.58	
0.4965	52.67	PK	0.1	0	52.77	56.1	-3.33	-	-	
0.4965	28.18	Av	0.1	0	28.28	-	-	46.1	-17.82	
1.365	46.75	PK	0.1	0.1	46.95	56	-9.05	-	-	
1.365	19.57	Av	0.1	0.1	19.77	-	-	46	-26.23	

**LINE 1 RESULTS**



**LINE 2 RESULTS**

