FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8

CERTIFICATION TEST REPORT

FOR

DUAL BAND CDMA MOBILE PHONE

MODEL NUMBER: C5120

FCC ID: V65C5120

REPORT NUMBER: 11U13866-5

ISSUE DATE: JULY 15, 2011

Prepared for
KYOCERA COMMUNICATIONS, INC.
9520 TOWNE CENTER DRIVE
SAN DIEGO, CA 92121, USA

Prepared by
COMPLIANCE CERTIFICATION SERVICES (UL CCS)
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 771-1000
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	07/15/11	Initial Issue	T. Chan

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COMPLIANCE CERTIFICATION SERVICES (UL CCS) FORM NO: CCSUP4701D
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: KYOCERA COMMUNICATIONS, INC.
9520 TOWNE CENTER DRIVE
SAN DIEGO, CA 92121, USA

EUT DESCRIPTION: DUAL BAND CDMA MOBILE PHONE

MODEL: C5120

SERIAL NUMBER: 3-1

DATE TESTED: JULY 14 to 15, 2011

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 3	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:

THU CHAN
EMC SUPERVISOR
UL CCS

Tested By:

DAVID GARCIA
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, and FCC CFR 47 Part 15.

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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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 a Bluetooth and WLAN capable Dual-band CDMA slide Phone that is manufactured by Kyocera Corporation.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antenna, with a maximum gain of -1.0 dBi.

5.3. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was FIRMWARE 0202

The test utility software used during testing was 0.801SP

5.4. WORST-CASE CONFIGURATION AND MODE

The worst-position was the EUT with highest emissions. To determine the worst-case, the EUT was investigated for X, Y, and Z-Positions, and the worst position among X, Y, and Z with the phone opened. After the investigation, the worst-position was turned out to be in the Y-position with the phone close and AC/DC adapter.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
AC Adapter	Kyocera Corp.	SCP-30ADT	SSW-2001	DoC

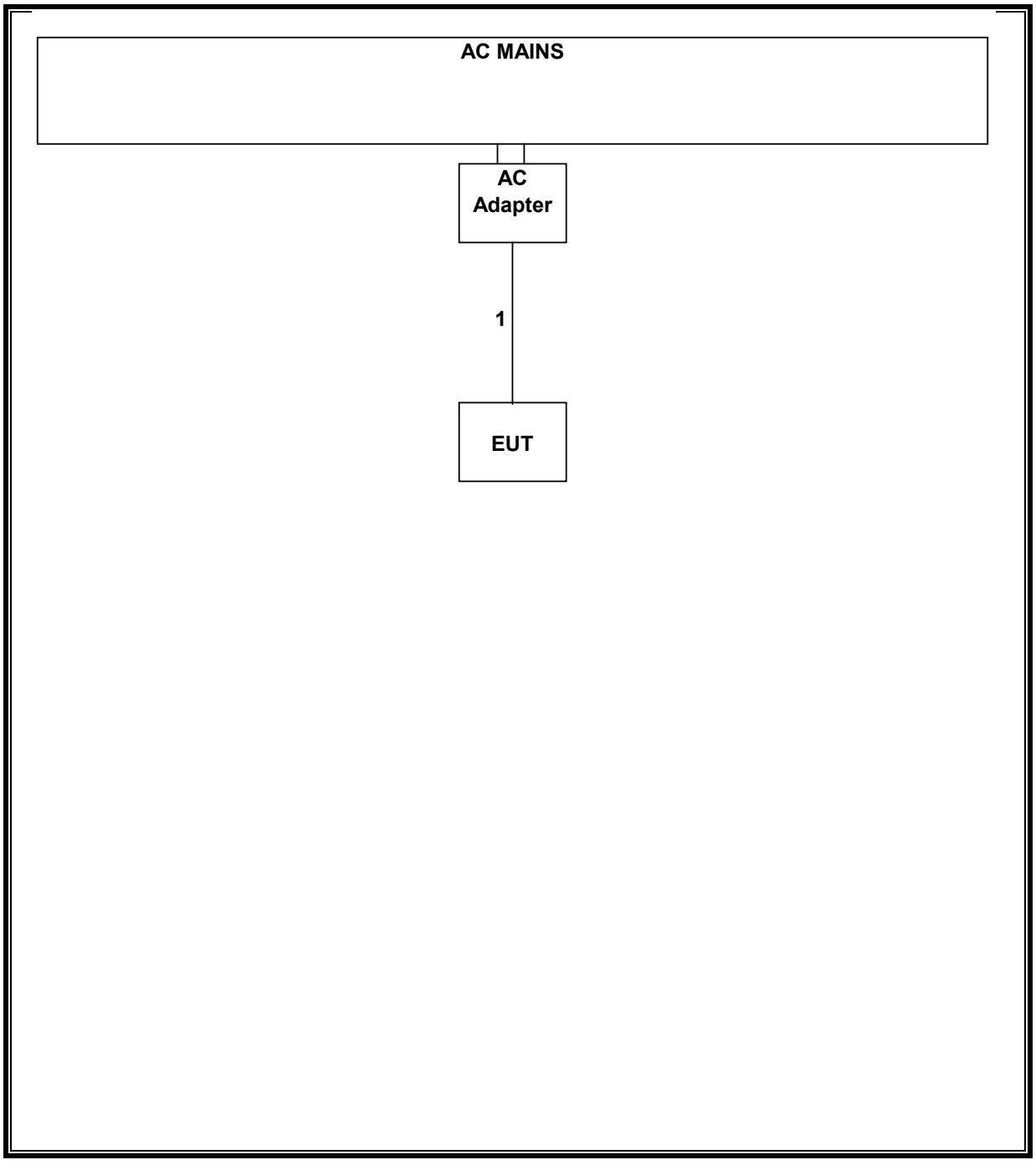
I/O CABLES

I/O CABLE LIST						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length**	**Remarks**
1	DC Power	1	Micro-USB	Shielded	1 m	

TEST SETUP

The EUT is configured as stand-alone unit with AC/DC adapter for all tests.

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, 26.5 GHz	Agilent / HP	E4440A	C01179	1/19/2012
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	7/16/2012
Antenna, Horn, 18 GHz	EMCO	3115	C00945	6/29/2012
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	7/14/2012
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	1/27/2012
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	N/A	7/6/2012
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	11/10/2011

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 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

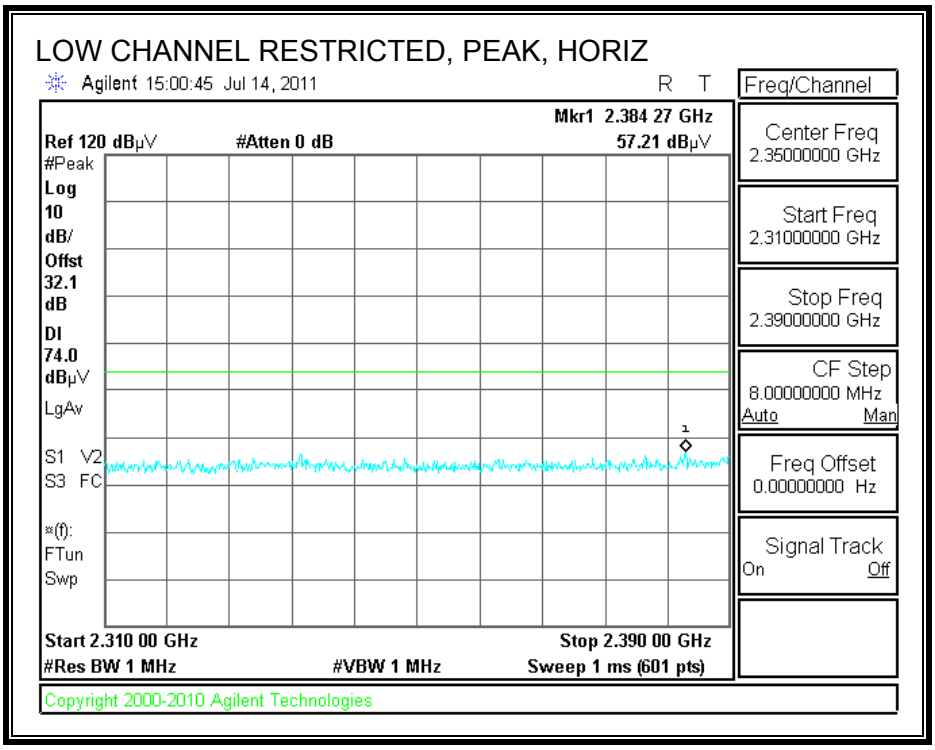
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each appplicable band.

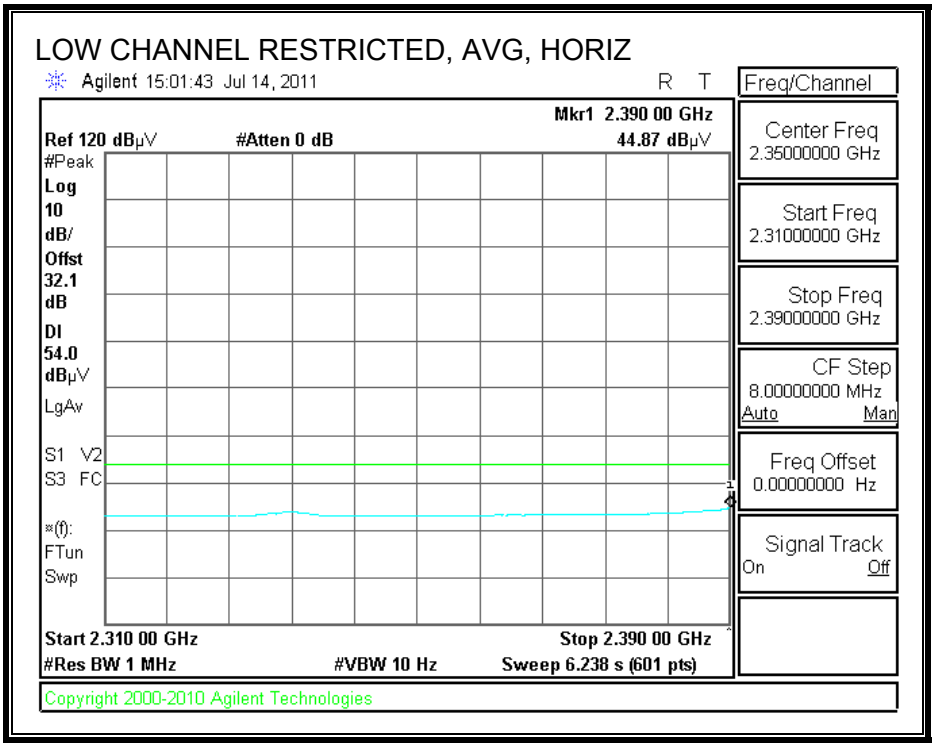
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

7.2. TRANSMITTER ABOVE 1 GHz

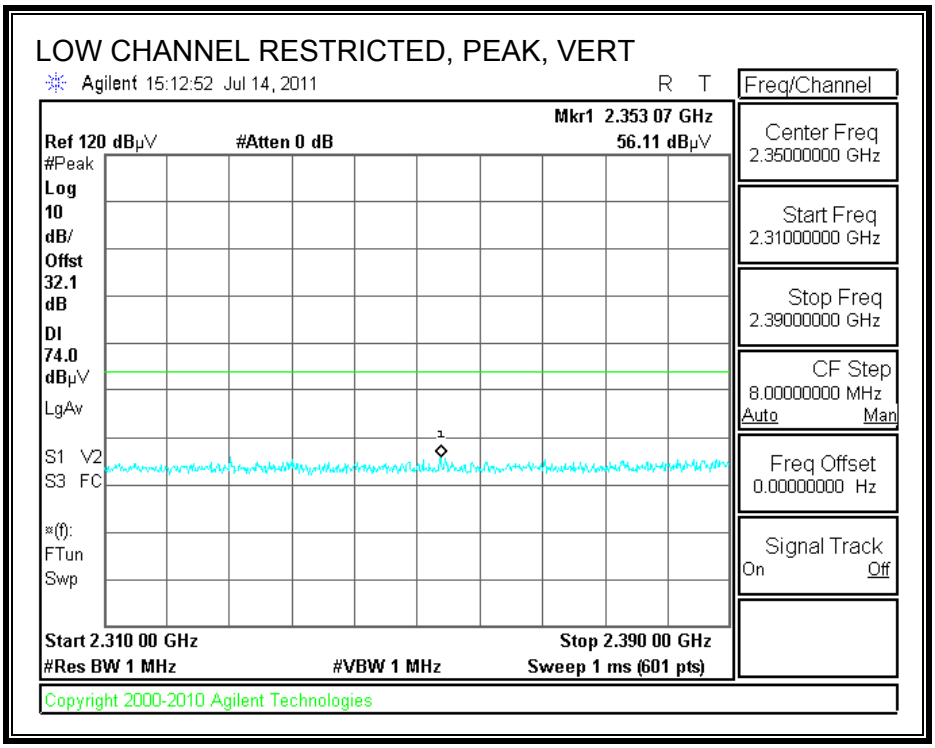
7.2.1. TRANSMITTER ABOVE 1 GHz FOR 802.11b MODE IN THE 2.4 GHz BAND

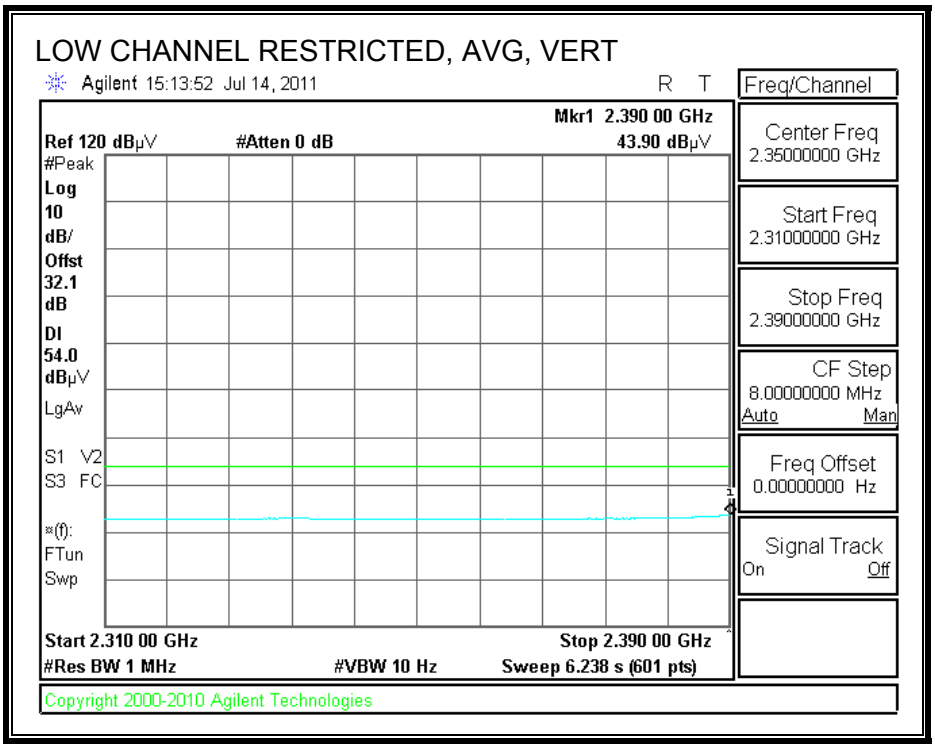
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



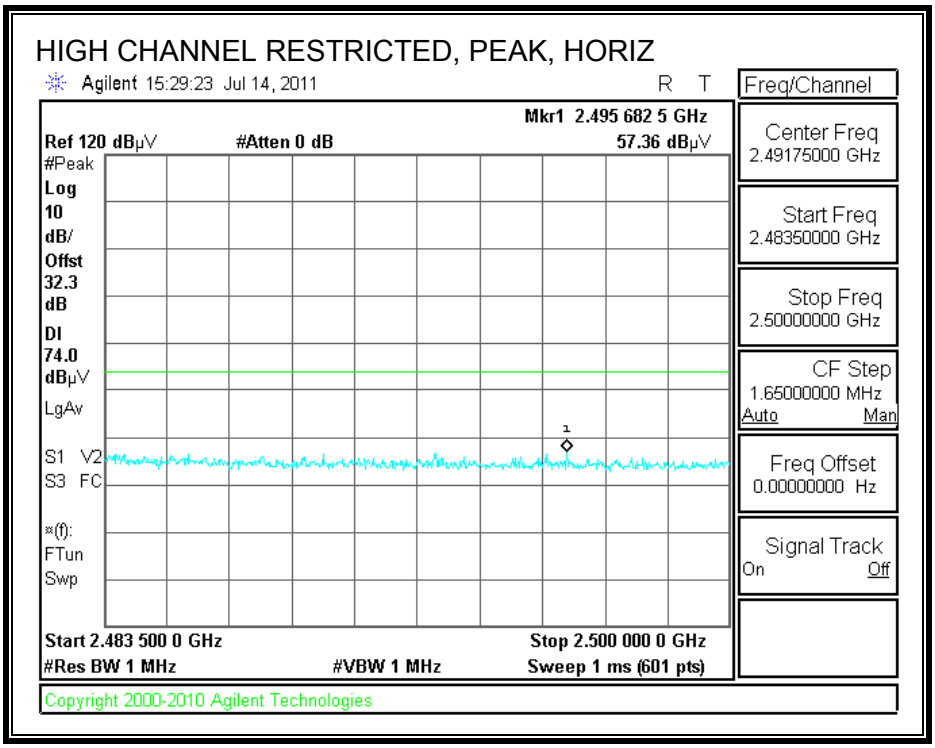


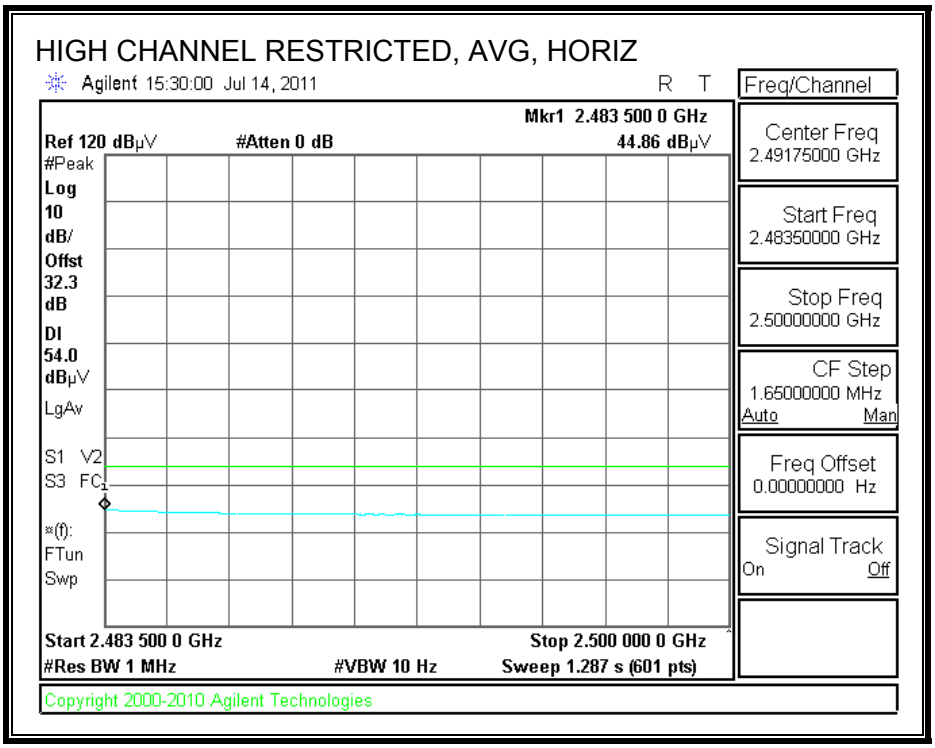
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



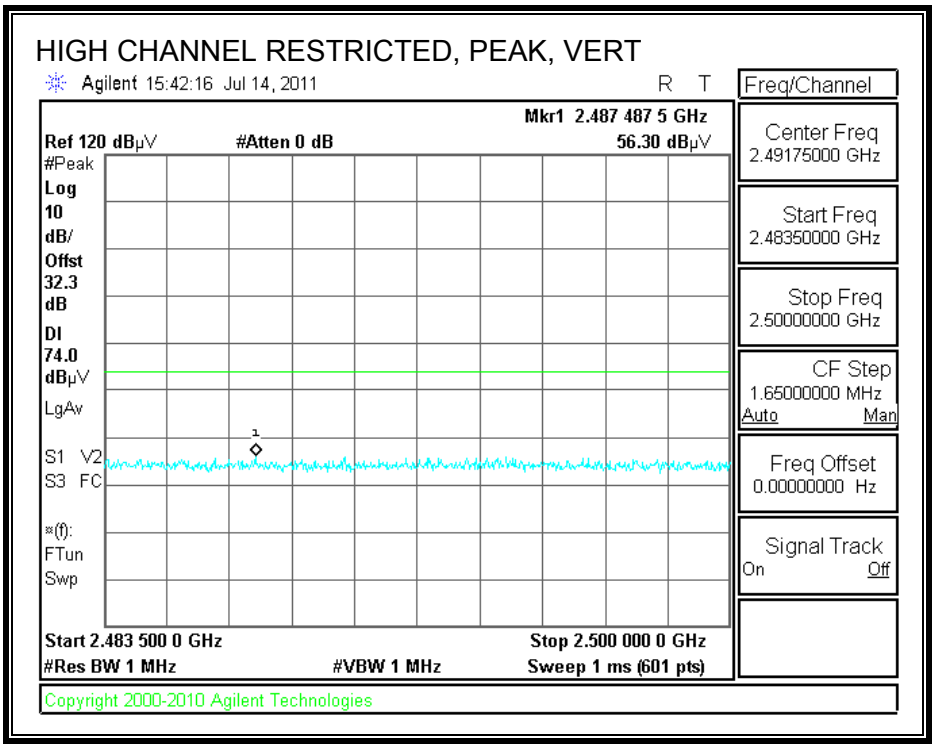


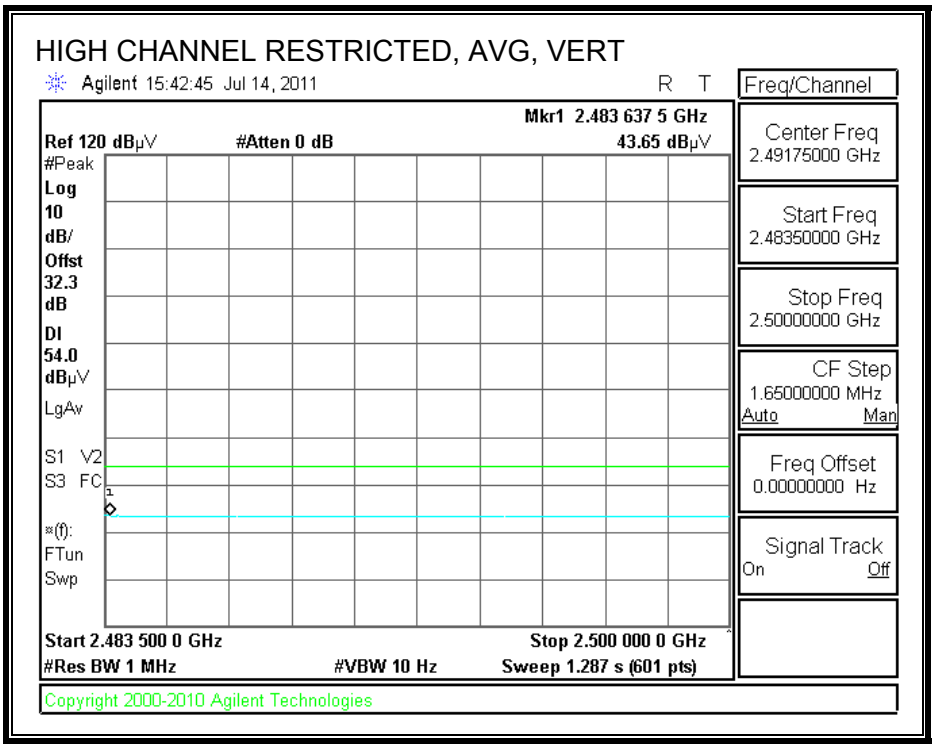
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
Compliance Certification Services, Fremont 5m Chamber-A

Company: Kyocera Wireless
Project #: 11U13866
Date: 7/14/2011
Test Engineer: David Garcia
Configuration: EUT only
Mode: Tx, 11b mode

Test Equipment:

Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T73; S/N: 6717 @3m	T144 Miteq 3008A00931			FCC 15.205

Hi Frequency Cables

3' cable 22807700	12' cable 22807600	20' cable 22807500	HPF	Reject Filter
3' cable 22807700	12' cable 22807600	20' cable 22807500		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	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 Channel 2412 MHz															
4.824	3.0	40.9	33.2	33.0	6.2	-36.5	0.0	0.0	43.7	36.0	74	54	-30.3	-18.0	H
4.824	3.0	46.7	42.8	33.0	6.2	-36.5	0.0	0.0	49.5	45.5	74	54	-24.5	-8.5	V
Mid Channel 2437 MHz															
4.874	3.0	42.4	37.1	33.1	6.2	-36.5	0.0	0.0	45.3	39.9	74	54	-28.7	-14.1	H
7.311	3.0	41.8	34.7	35.3	8.4	-36.2	0.0	0.0	49.3	42.1	74	54	-24.7	-11.9	H
4.874	3.0	45.2	40.4	33.1	6.2	-36.5	0.0	0.0	48.1	43.3	74	54	-25.9	-10.7	V
7.311	3.0	42.7	34.8	35.3	8.4	-36.2	0.0	0.0	50.2	42.3	74	54	-23.8	-11.7	V
High Channel 2462															
4.924	3.0	44.7	40.1	33.1	6.3	-36.5	0.0	0.0	47.7	43.1	74	54	-26.3	-10.9	H
7.386	3.0	41.5	34.6	35.4	8.4	-36.2	0.0	0.0	49.1	42.2	74	54	-24.9	-11.8	H
4.924	3.0	47.2	43.6	33.1	6.3	-36.5	0.0	0.0	50.2	46.6	74	54	-23.8	-7.4	V
7.386	3.0	42.0	34.7	35.4	8.4	-36.2	0.0	0.0	49.6	42.2	74	54	-24.4	-11.8	V

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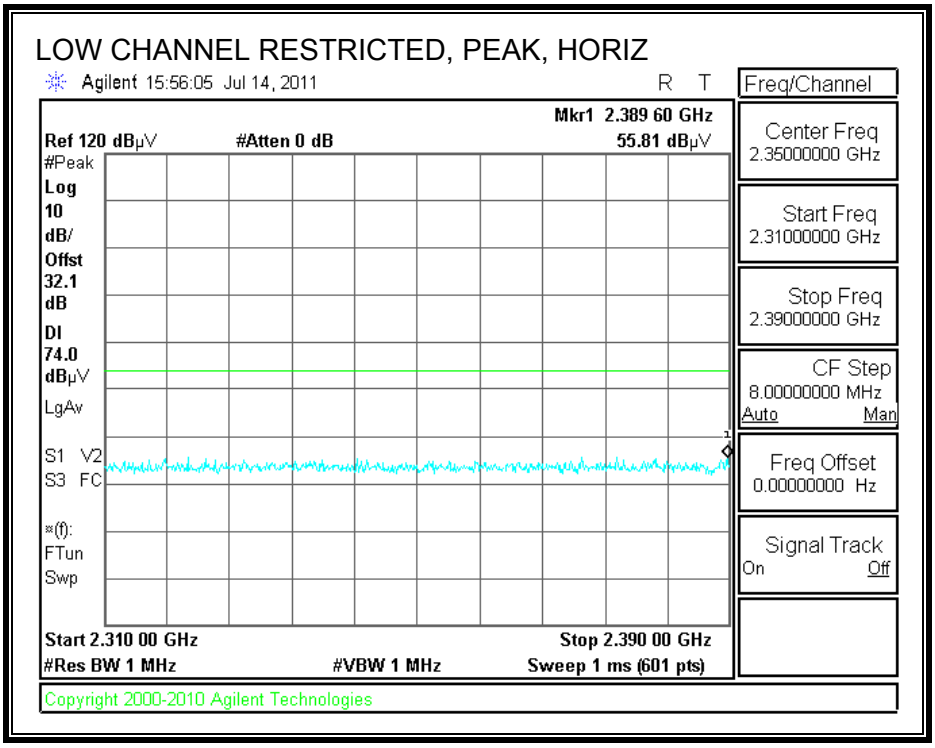
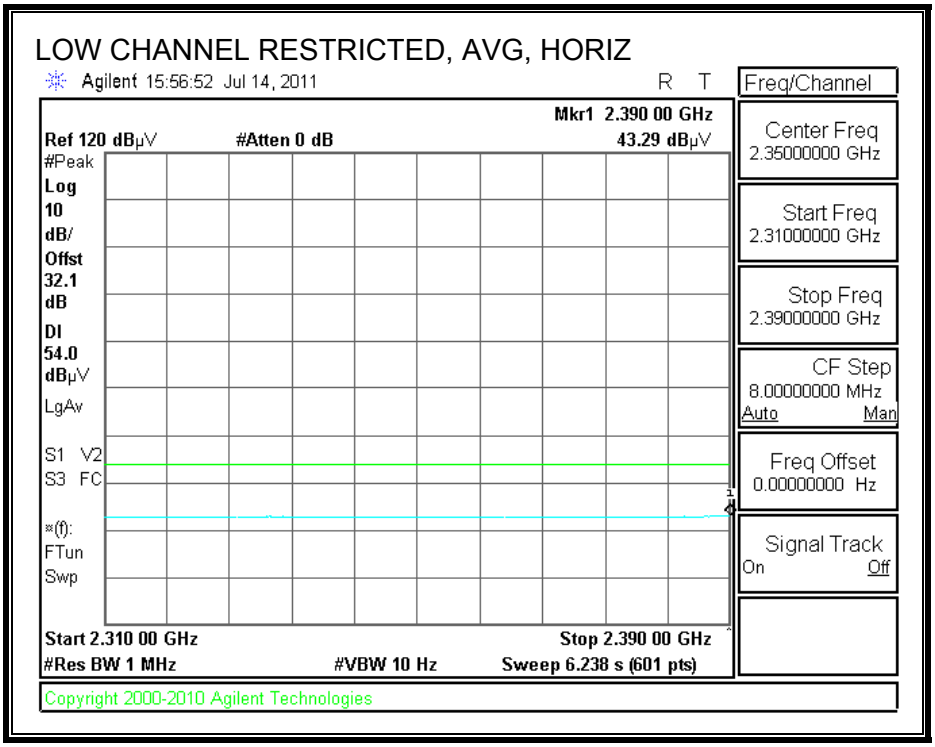
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field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

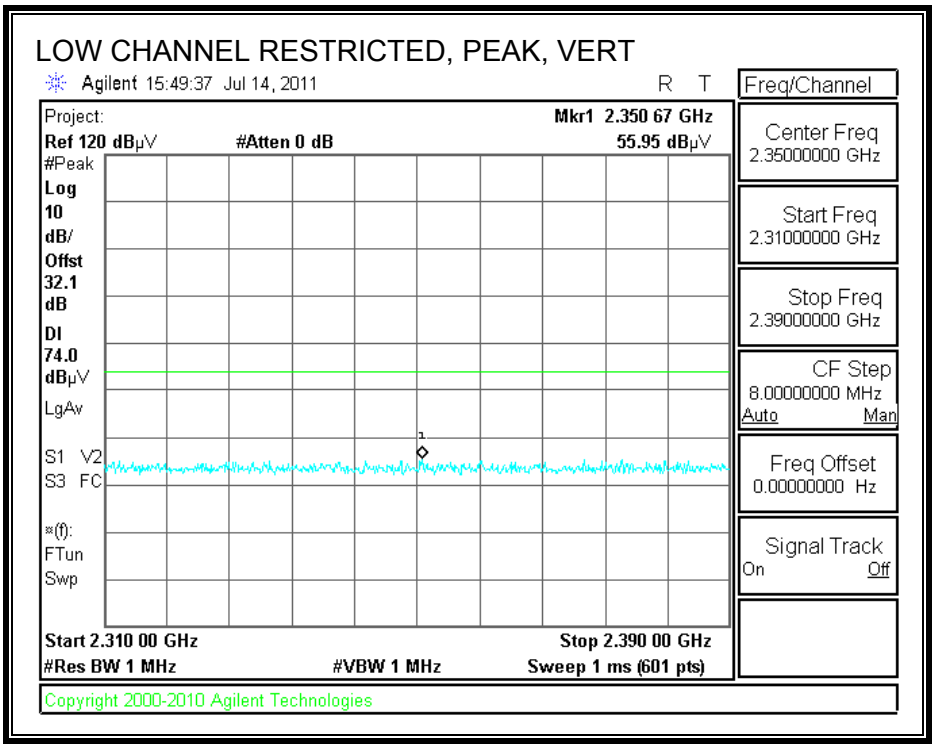
7.2.2. TRANSMITTER ABOVE 1 GHz FOR 802.11g MODE IN THE 2.4 GHz BAND

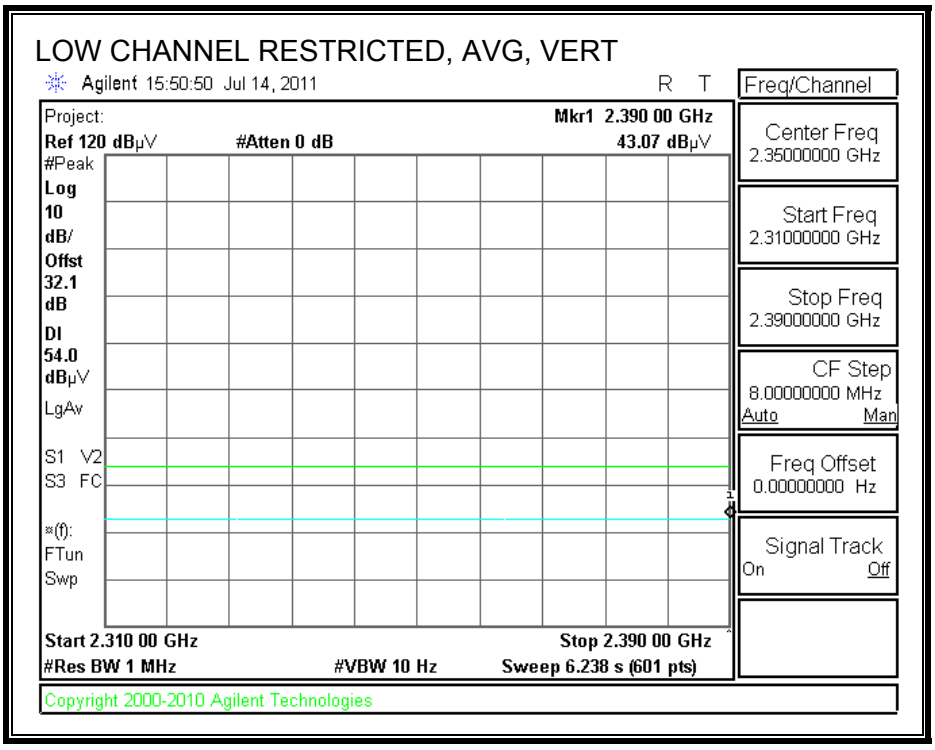
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



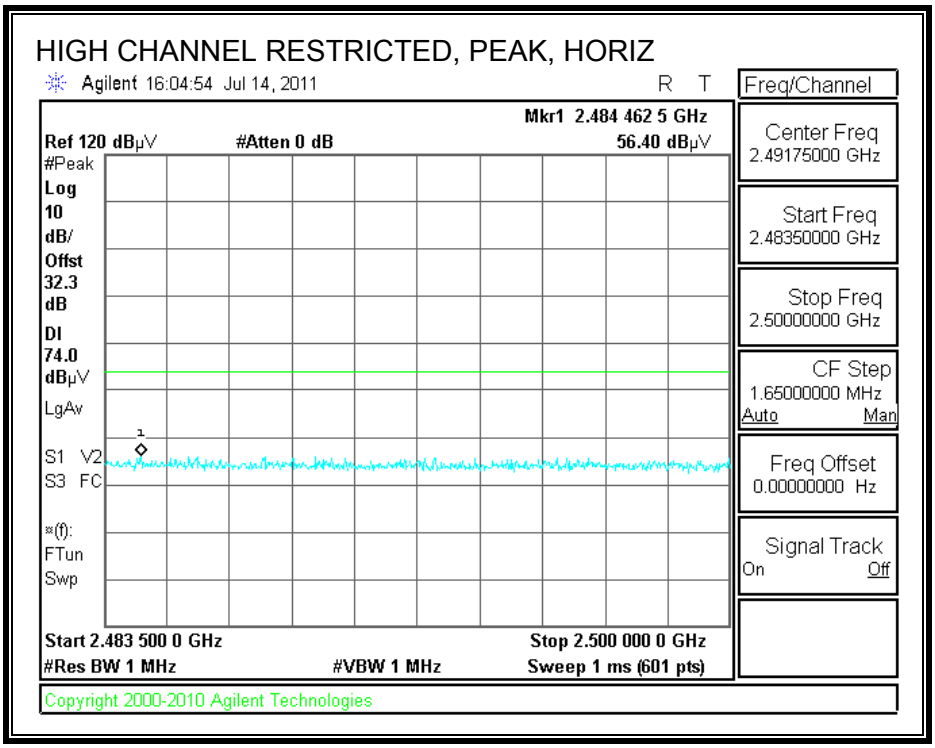


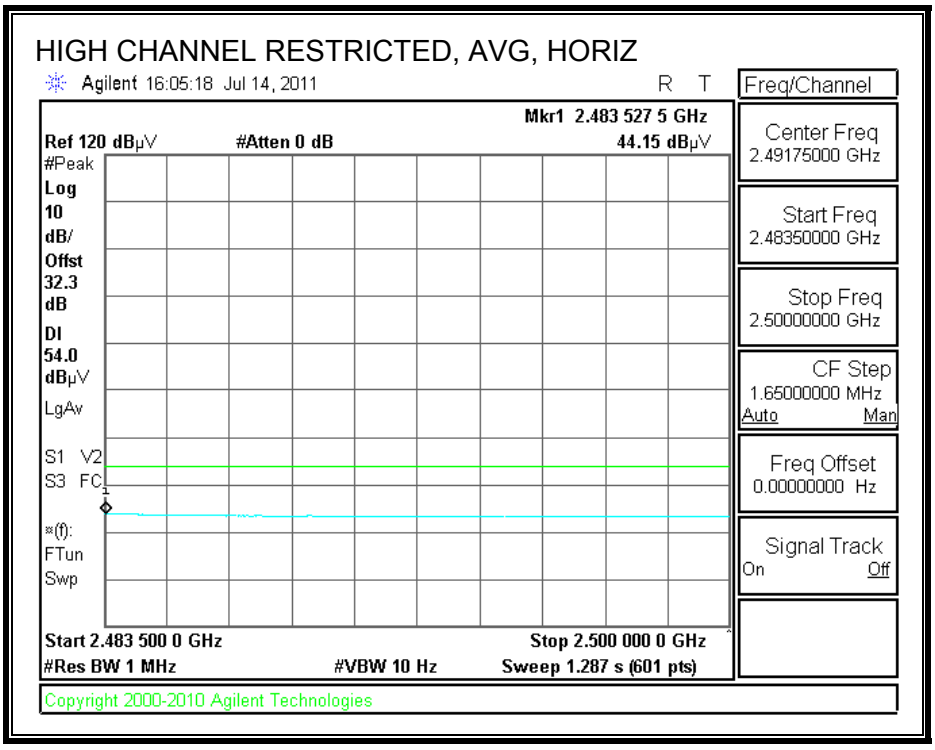
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



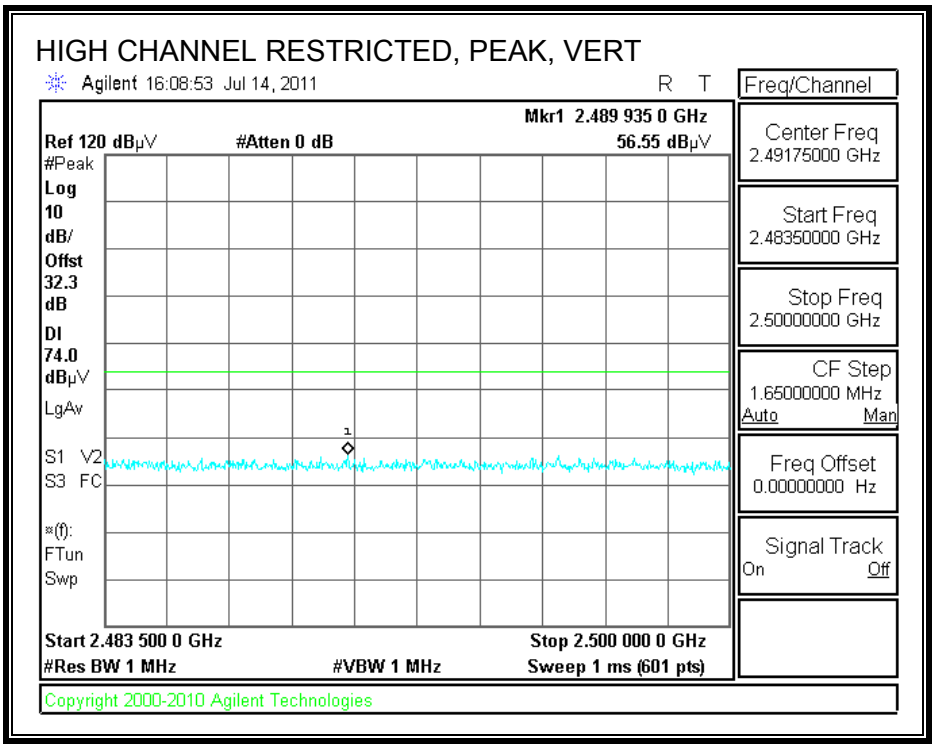


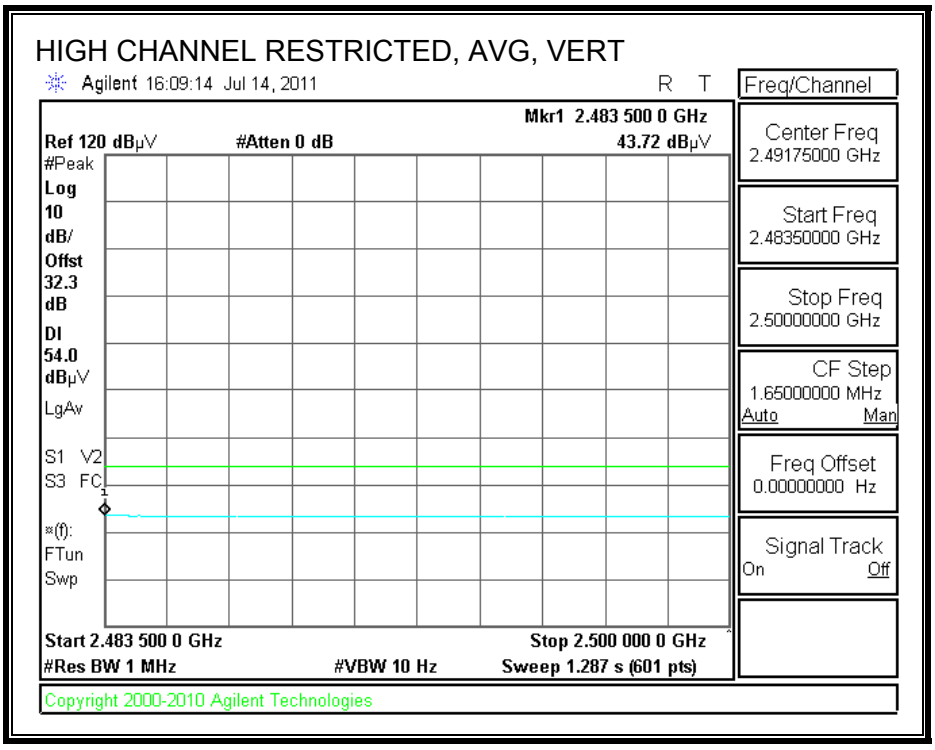
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
Compliance Certification Services, Fremont 5m Chamber-A

Company: Kyocera Wireless
Project #: 11U13866
Date: 7/14/2011
Test Engineer: David Garcia
Configuration: EUT w/AC adapter
Mode: Tx, 11g mode

Test Equipment:

Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T73; S/N: 6717 @3m	T144 Miteq 3008A00931			FCC 15.205

Hi Frequency Cables

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3' cable 22807700	12' cable 22807600	20' cable 22807500		R_001

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

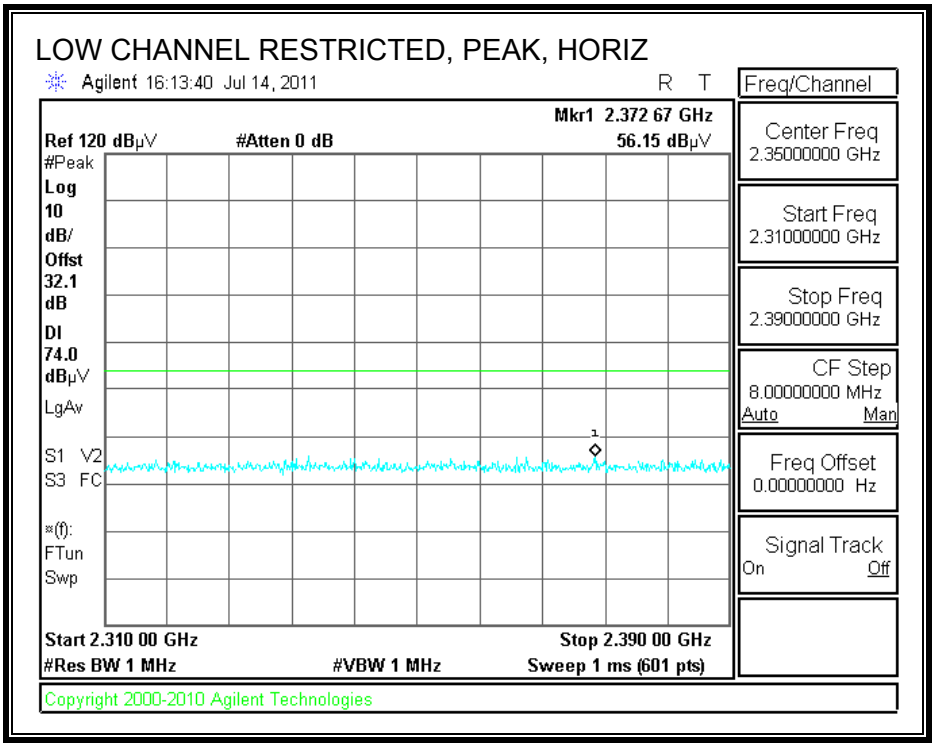
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Channel 2412 MHz															
4.824	3.0	39.4	27.8	33.0	6.2	-36.5	0.0	0.0	42.2	30.6	74	54	-31.8	-23.4	H
4.824	3.0	38.6	27.7	33.0	6.2	-36.5	0.0	0.0	41.4	30.5	74	54	-32.6	-23.5	V
Mid Channel 2437 MHz															
4.874	3.0	39.0	27.3	33.1	6.2	-36.5	0.0	0.0	41.9	30.2	74	54	-32.1	-23.8	H
7.311	3.0	40.9	27.9	35.3	8.4	-36.2	0.0	0.0	48.4	35.4	74	54	-25.6	-18.6	H
4.874	3.0	40.2	27.6	33.1	6.2	-36.5	0.0	0.0	43.0	30.4	74	54	-31.0	-23.6	V
7.311	3.0	38.1	26.3	35.3	8.4	-36.2	0.0	0.0	45.6	33.8	74	54	-28.4	-20.2	V
High Channel 2462 MHz															
4.924	3.0	39.7	27.0	33.1	6.3	-36.5	0.0	0.0	42.6	29.9	74	54	-31.4	-24.1	H
7.386	3.0	38.1	26.2	35.4	8.4	-36.2	0.0	0.0	45.7	33.8	74	54	-28.3	-20.2	H
4.924	3.0	39.9	27.8	33.1	6.3	-36.5	0.0	0.0	42.8	30.8	74	54	-31.2	-23.2	V
7.386	3.0	39.2	39.2	35.4	8.4	-36.2	0.0	0.0	46.8	46.8	74	54	-27.2	-7.2	V

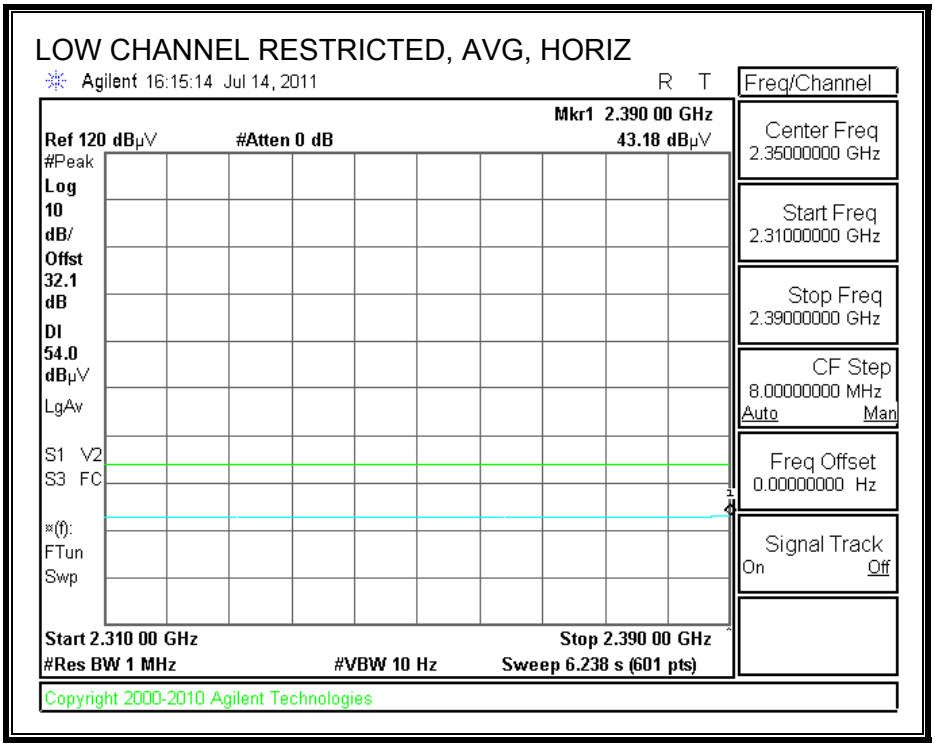
Rev. 07.08.11

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		

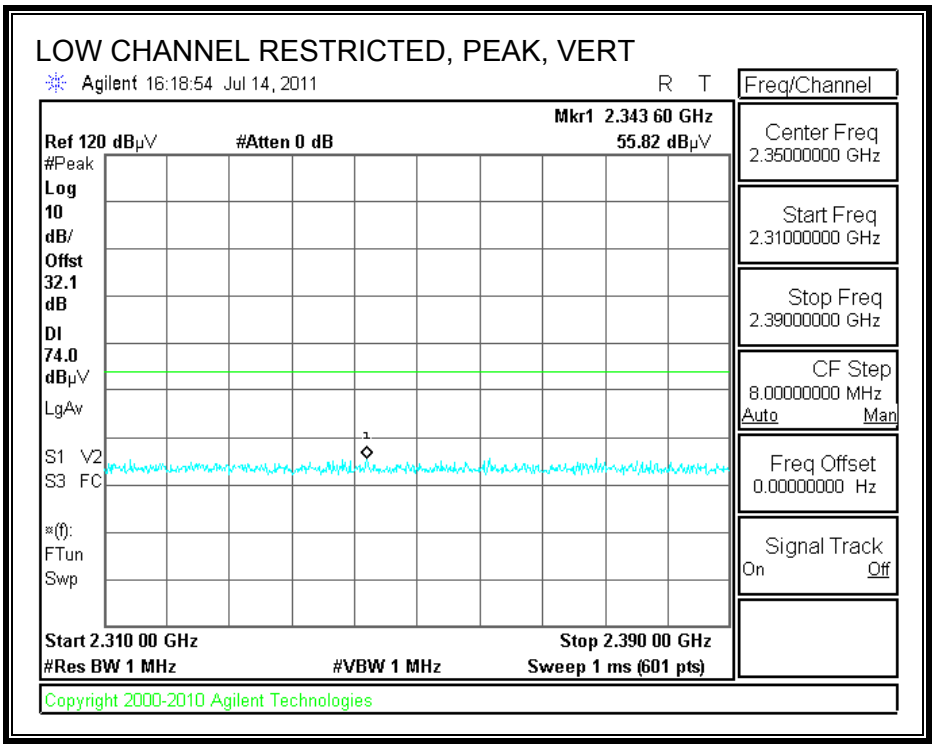
7.2.3. TRANSMITTER ABOVE 1 GHz FOR 802.11n HT20 SISO MODE IN THE 2.4 GHz BAND

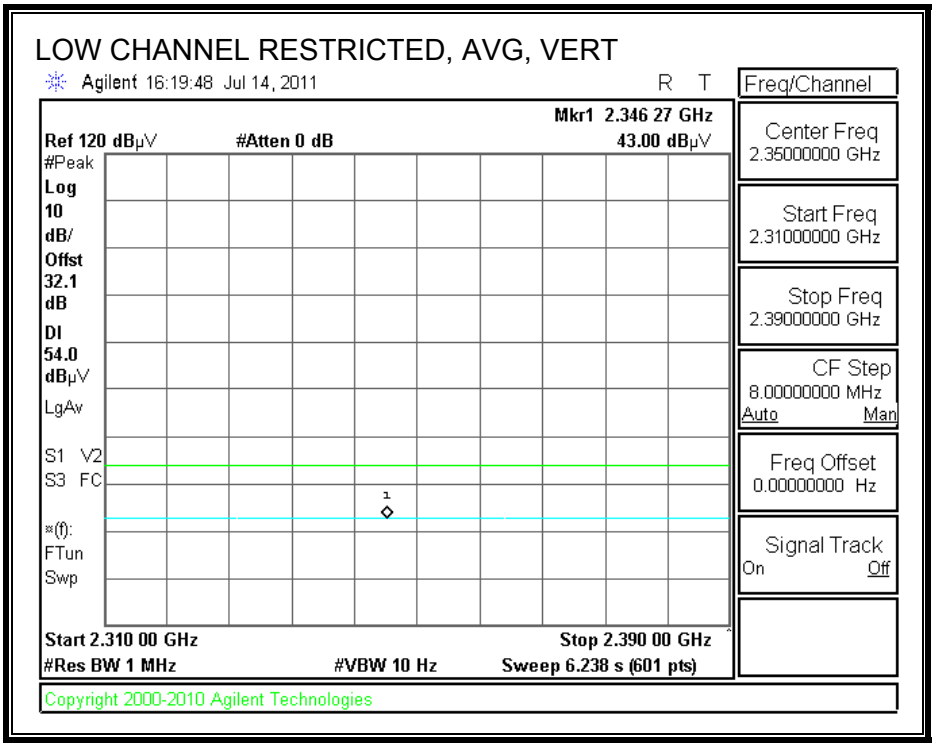
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



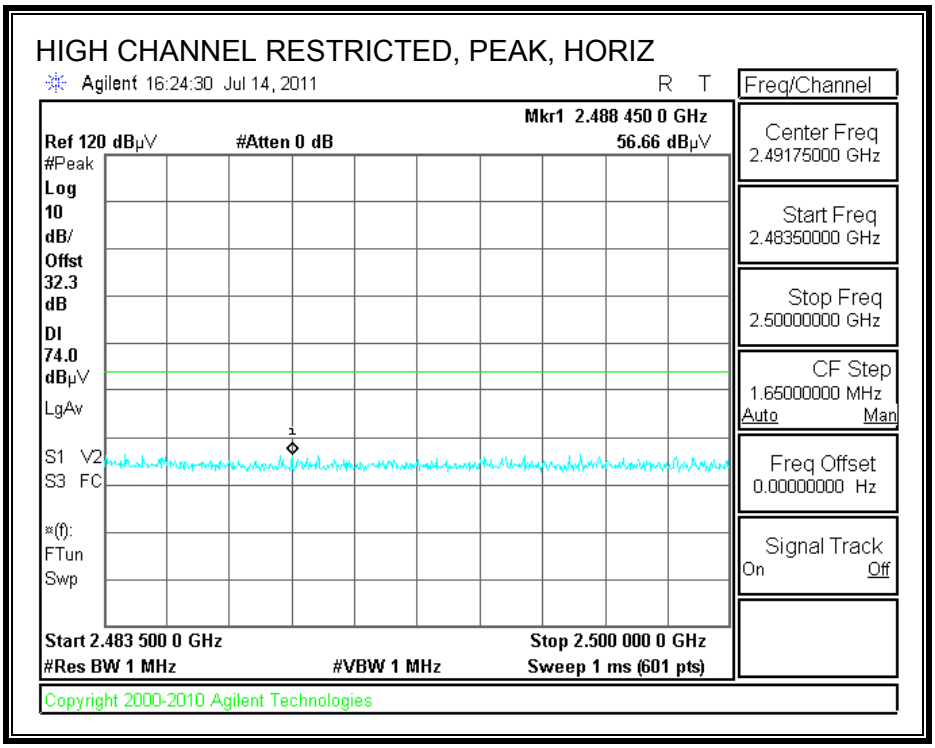


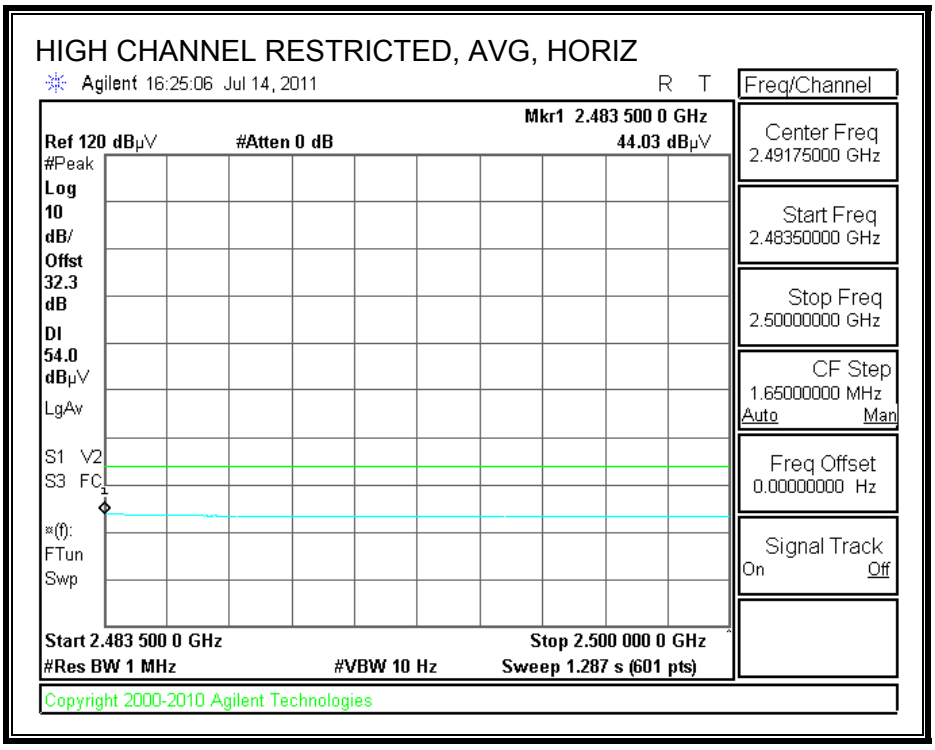
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



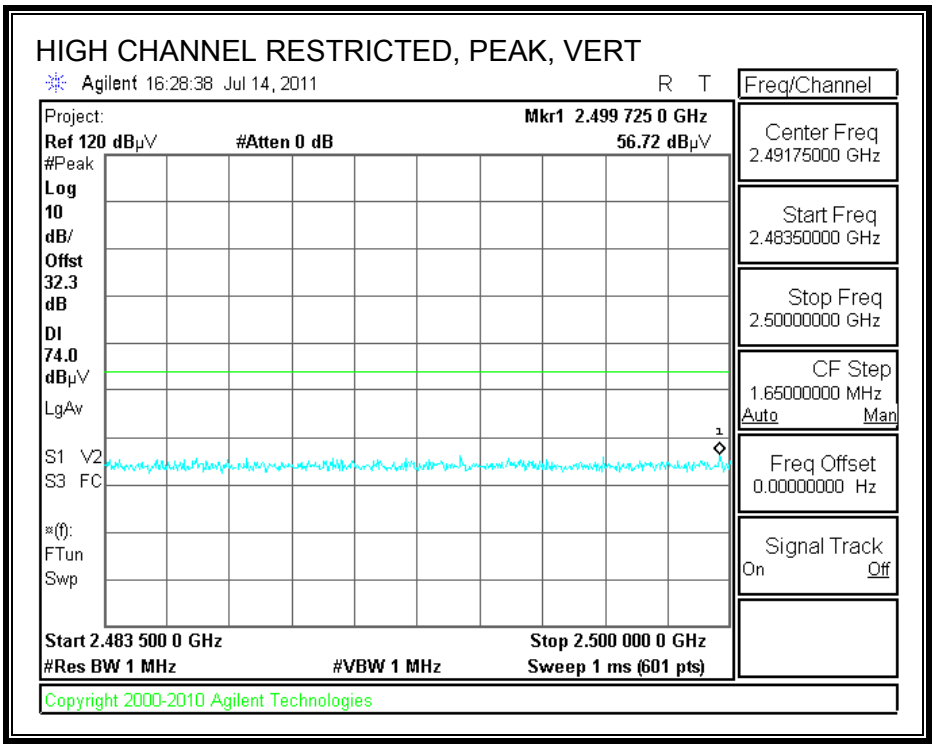


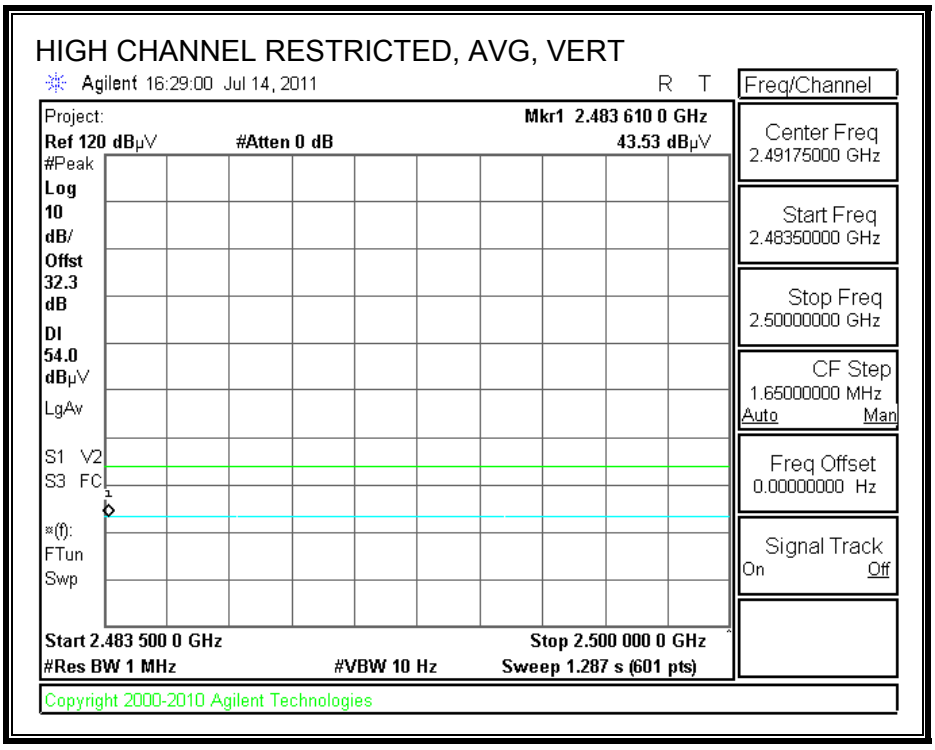
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
Compliance Certification Services, Fremont 5m Chamber-A

Company: Kyocera Wireless
Project #: 11U13866
Date: 7/14/2011
Test Engineer: David Garcia
Configuration: EUT w/AC adapter
Mode: Tx, 11n mode

Test Equipment:

Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T73; S/N: 6717 @3m	T144 Miteq 3008A00931			FCC 15.205

Hi Frequency Cables

3' cable 22807700	12' cable 22807600	20' cable 22807500	HPF	Reject Filter
3' cable 22807700	12' cable 22807600	20' cable 22807500		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	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 Channel 2412 MHz															
4.824	3.0	38.5	26.6	33.0	6.2	-36.5	0.0	0.0	41.3	29.3	74	54	-32.7	-24.7	H
4.824	3.0	38.3	26.5	33.0	6.2	-36.5	0.0	0.0	41.1	29.3	74	54	-32.9	-24.7	V
Mid Channel 2437 MHz															
4.874	3.0	38.5	26.3	33.1	6.2	-36.5	0.0	0.0	41.3	29.2	74	54	-32.7	-24.8	H
7.311	3.0	38.0	26.4	35.3	8.4	-36.2	0.0	0.0	45.5	33.9	74	54	-28.5	-20.1	H
4.874	3.0	38.0	26.3	33.1	6.2	-36.5	0.0	0.0	40.8	29.1	74	54	-33.2	-24.9	V
7.311	3.0	38.5	26.4	35.3	8.4	-36.2	0.0	0.0	45.9	33.8	74	54	-28.1	-20.2	V
High Channel 2462 MHz															
4.924	3.0	39.1	26.6	33.1	6.3	-36.5	0.0	0.0	42.1	29.5	74	54	-31.9	-24.5	H
7.386	3.0	38.7	26.1	35.4	8.4	-36.2	0.0	0.0	46.3	33.7	74	54	-27.7	-20.3	H
4.924	3.0	38.5	26.6	33.1	6.3	-36.5	0.0	0.0	41.5	29.5	74	54	-32.5	-24.5	V
7.386	3.0	37.9	26.1	35.4	8.4	-36.2	0.0	0.0	45.4	33.7	74	54	-28.6	-20.3	V

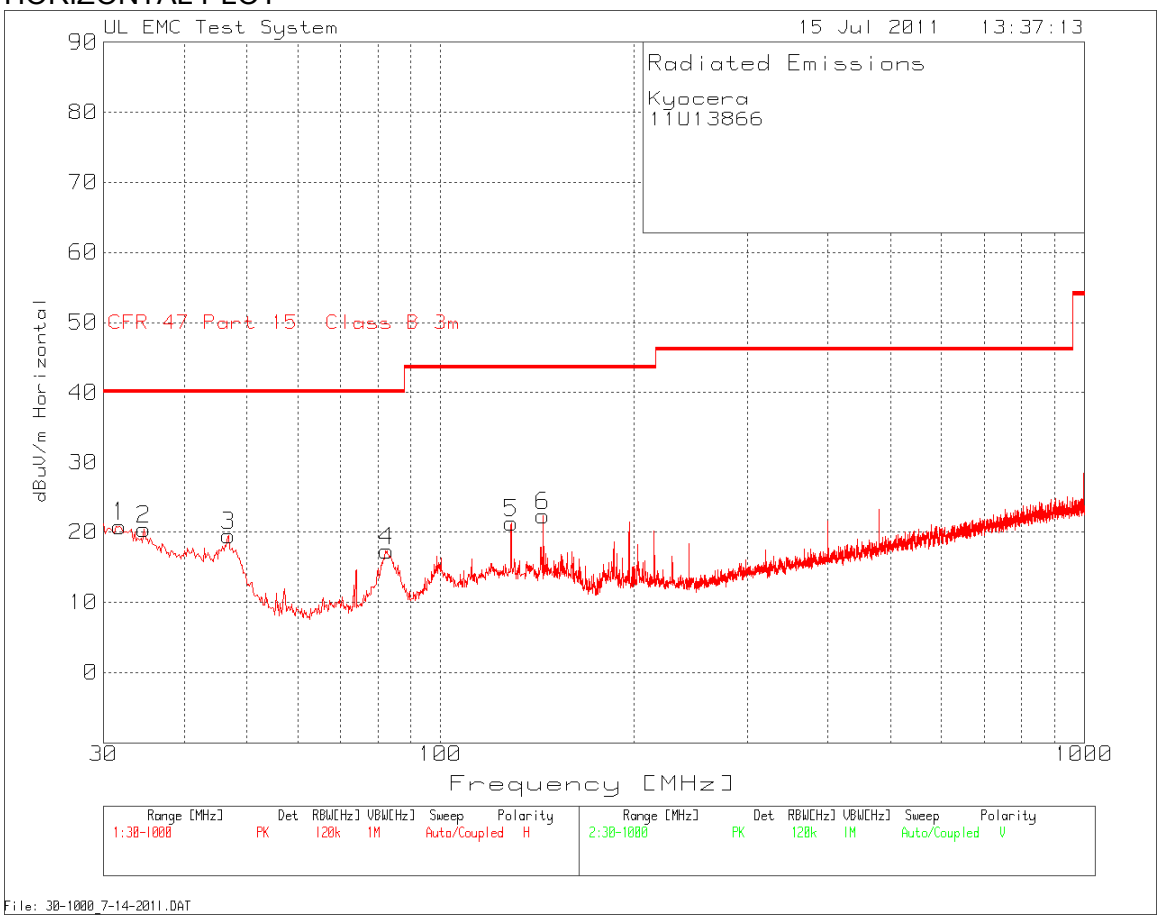
Rev. 07.08.11

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		

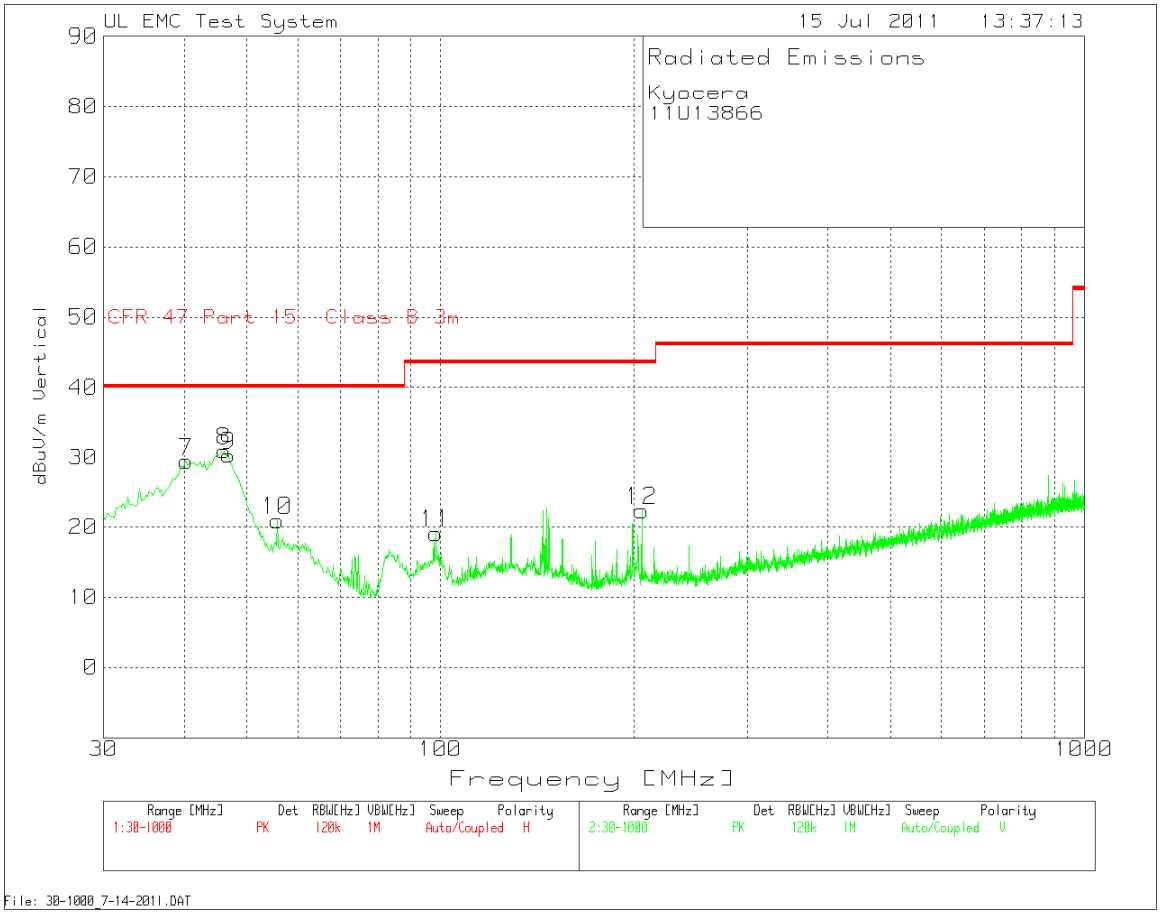
7.3. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



HORIZONTAL AND VERTICAL DATA

Company:	Kyocera Wireless
Project #:	11U13866
Date:	7/15/2011
Test Engineer:	David Garcia
Configuration:	EUT only
Mode:	Tx, Worst case mode

Range 1 30 - 1000MHz

Test Frequency	Meter Reading	Detector	5m A Cable below 1GHz.TXT [dB]	5m A T64 PreAmp below 1GHz.TXT [dB]	5m A T122 Bilog below 1GHz.TXT [dB]	dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
31.7446	29.23	PK	0.6	-28.3	19.3	20.83	40	-19.17	100	Horz
34.6523	29.98	PK	0.6	-28.3	18.1	20.38	40	-19.62	300	Horz
46.8645	37.05	PK	0.8	-28.3	9.9	19.45	40	-20.55	300	Horz
82.532	37.07	PK	1	-28.2	7.4	17.27	40	-22.73	200	Horz
128.8609	34.65	PK	1.2	-28.2	13.6	21.25	43.5	-22.25	200	Horz
144.5624	36.1	PK	1.3	-28.1	13	22.3	43.5	-21.2	200	Horz

Range 2 30 - 1000MHz

Test Frequency	Meter Reading	Detector	5m A Cable below 1GHz.TXT [dB]	5m A T64 PreAmp below 1GHz.TXT [dB]	5m A T122 Bilog below 1GHz.TXT [dB]	dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
40.2738	43.24	PK	0.7	-28.3	13.7	29.34	40	-10.66	100	Vert
46.0891	48.1	PK	0.8	-28.3	10.3	30.9	40	-9.1	100	Vert
46.8645	47.86	PK	0.8	-28.3	9.9	30.26	40	-9.74	100	Vert
55.7814	40.33	PK	0.8	-28.3	8.1	20.93	40	-19.07	300	Vert
98.4273	36.57	PK	1.1	-28.2	9.6	19.07	43.5	-24.43	100	Vert
205.4297	36.89	PK	1.5	-28.1	12	22.29	43.5	-21.21	100	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection
Text File: 30-1000MHz Final.TXT
File: 30-1000_7-14-2011.DAT

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

ANSI C63.4

RESULTS

6 WORST EMISSIONS

Company: Kyocera Wireless
Project #: 11U13866
Date: 7/15/2011
Test Engineer: David Garcia
Configuration: EUT only
Mode: Tx, Worst case mode

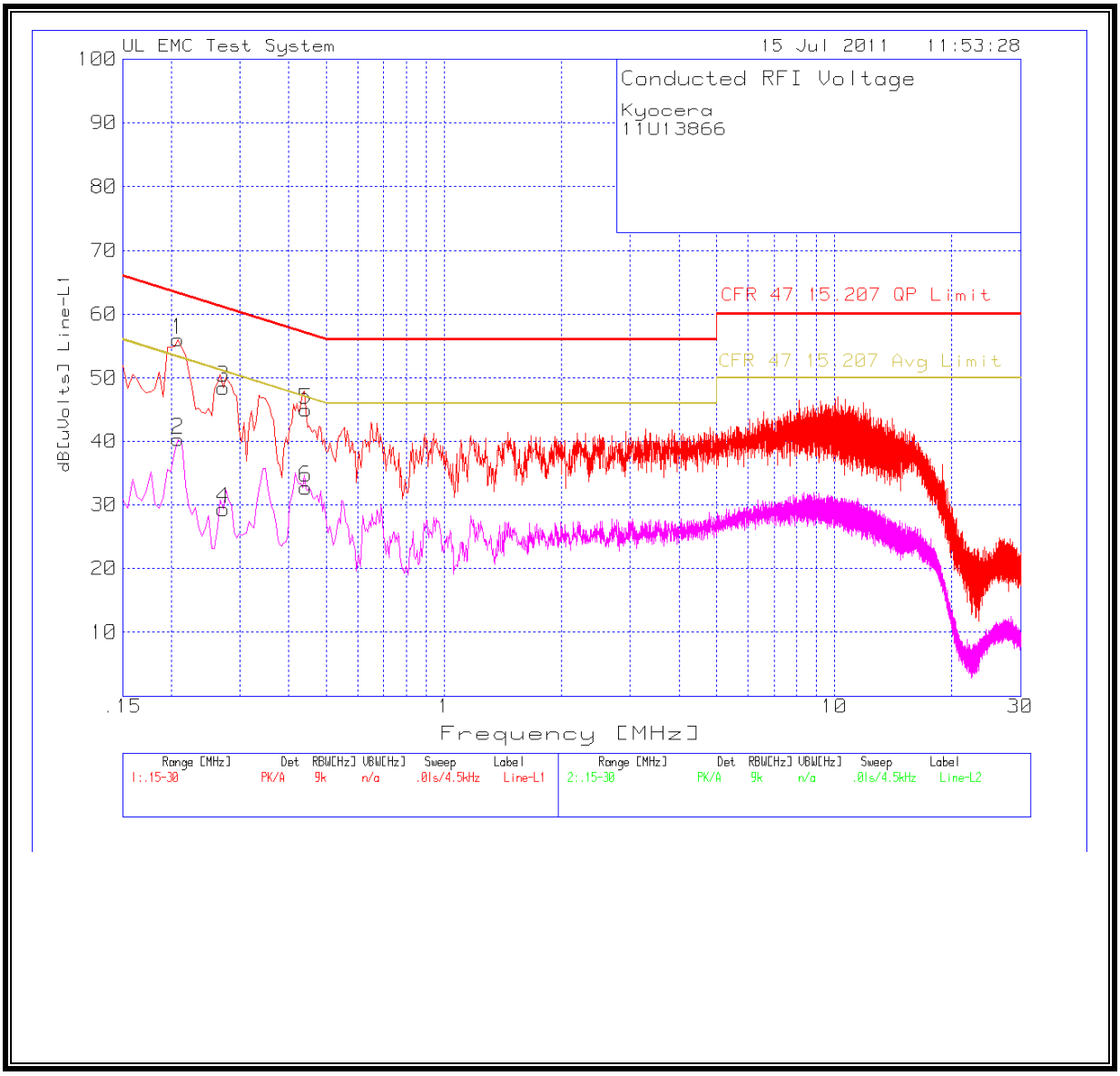
Line-L1 .15 - 30MHz

Test Frequency	Meter Reading	Detector	dB[uVolts]	QP Limit	Margin	Avg Limit	Margin
0.2085	56.05	PK	56.05	63.3	-7.25		
0.2085	40.3	Av	40.3			53.3	-13
0.2715	48.52	PK	48.52	61.1	-12.58		
0.2715	29.37	Av	29.37			51.1	-21.73
0.4425	45.05	PK	45.05	57	-11.95		
0.4425	32.75	Av	32.75			47	-14.25

Line-L2 .15 - 30MHz

Test Frequency	Meter Reading	Detector	dB[uVolts]	QP Limit	Margin	Avg Limit	Margin
0.1995	52.41	PK	52.41	63.6	-11.19		
0.1995	31.62	Av	31.62			53.6	-21.98
0.348	45.67	PK	45.67	59	-13.33		
0.348	28.99	Av	28.99			49	-20.01
0.4515	46.51	PK	46.51	56.8	-10.29		
0.4515	28.54	Av	28.54			46.8	-18.26

LINE 1 RESULTS



LINE 2 RESULTS