



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

CERTIFICATION TEST REPORT

FOR

**CELLULAR/AWS/PCS CDMA & AWS/PCS LTE PHONE WITH BLUETHOOH AND
WLAN**

MODEL NUMBER: MS770, LG-MS770, LGMS770, LW770, LG-LW770, LGLW770

FCC ID: ZNFMS770

REPORT NUMBER: 12U14456-1

ISSUE DATE: JUNE 12, 2012

Prepared for
**LG ELECTRONICS MOBILECOMM U.S.A., INC.
1000 SYLVAN AVE.
ENGLEWOODS CLIFFS, NJ 07632**

Prepared by
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	06/12/2012	Initial Issue	T. LEE

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC.
1000 SYLVAN AVE.
ENGLEWOODS CLIFFS, NJ 07632

EUT DESCRIPTION: Cellular/AWS/PCS CDMA & AWS/PCS LTE Phone with Bluetooth and WLAN

MODEL: MS770, LG-MS770, LGMS770, LW770, LG-LW770, LGLW770

SERIAL NUMBER: 99000077000285

DATE TESTED: MAY 2-7, 2012

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	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:

Tested By:



TIM LEE
STAFF ENGINEER
UL CCS

TOM CHEN
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, 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 a Cellular/AWS/PCS CDMA & AWS/PCS LTE Phone with Bluetooth and WLAN.

5.2. MAXIMUM OUTPUT POWER

The measured average power values were within ± 0.5 dB of the original values. Refer to original report number "12U14406-2A FCC IC DTS WLAN Report" for exact output power values and for all antenna port results.

5.3. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The change filed under this application has the following changes.

- Hardware Changes (Antenna Pattern and OCB Adjustments)
- Other Changes (Shield Can Shape, and components)

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a Monopole antenna, with a maximum gain of -0.59 dBi.

5.5. SOFTWARE AND FIRMWARE

The EUT software installed during testing was LAP8960IR120417.

5.6. MODEL DIFFERNECE

Model MS770 is identical to Models LG-MS770, LGMS770, LW770, LG-LW770, and LGLW770 except for model designation.

5.7. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

Based on the manufacturer's attestation that the nominal output power is reduced as the data rate increases, the data rates tested represent the highest power and worst-case with respect to EMC performance.

Worst-case data rates were as follows:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20mode: MCS0

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

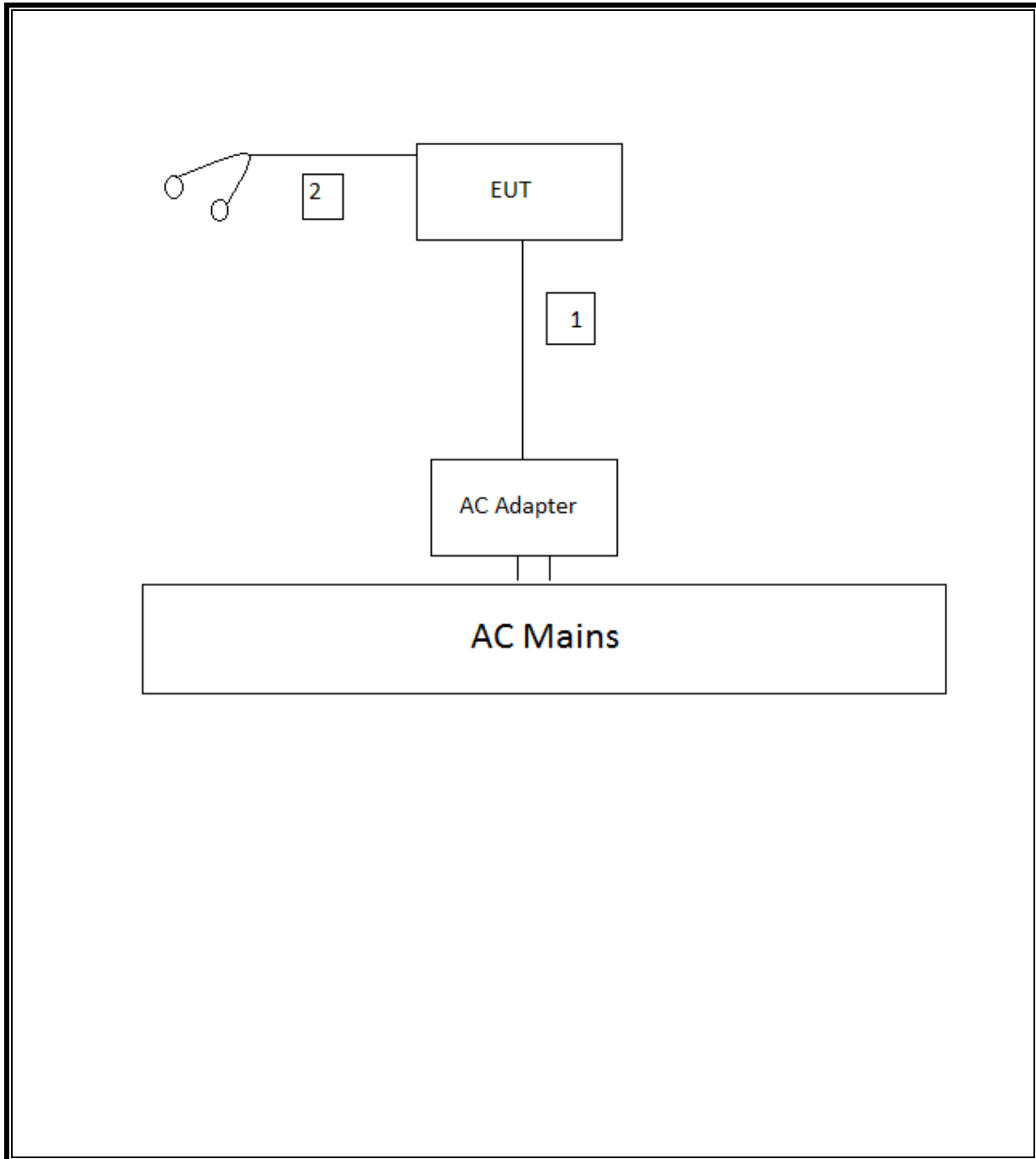
Support Equipment List			
Description	Manufacturer	Model	Serial Number
AC ADAPTER	LG ELECTRONICS	MCS-01WR	RA1Z0051473
HEADSET	LG ELECTRONICS	NA	N/A

I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	MINI USB	UN-SHELDED	1.0m	LG-DLC300 (BA21)
2	AUDIO	1	MINI JACK	UN-SHELDED	1.0m	N/A

TEST SETUP

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	C01052	07/14/12
Antenna, Horn, 18 GHz	EMCO	3115	C00945	06/29/12
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	11/11/12
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01016	07/12/12
Horn Antenna, 26.5 GHz	ARA	MWH-1826/B	C00589	07/28/12
Preamplifier, 40 GHz	Miteq	NSP4000-SP2	C00990	03/14/13
Reject Filter, 2.0-2.9 GHz	Micro-Tronics	BRM50702	N02684	CNR
High Pass Filter, 7.6 GHz	Micro-Tronics	HPM13195	N02682	CNR
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01159	04/09/13
Peak Power Meter	Agilent	N1911A	1260847C	08/04/12
Peak Power Sensor	Agilent	E9323A	1244073F	08/04/12
Reject Filter, 2.4-2.5 GHz	Micro-Tronics	BRM50702	N02685	CNR
EMI Test Receiver, 30MHz	R & S	ESHS 20	N02396	08/19/13
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	12/13/12

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.

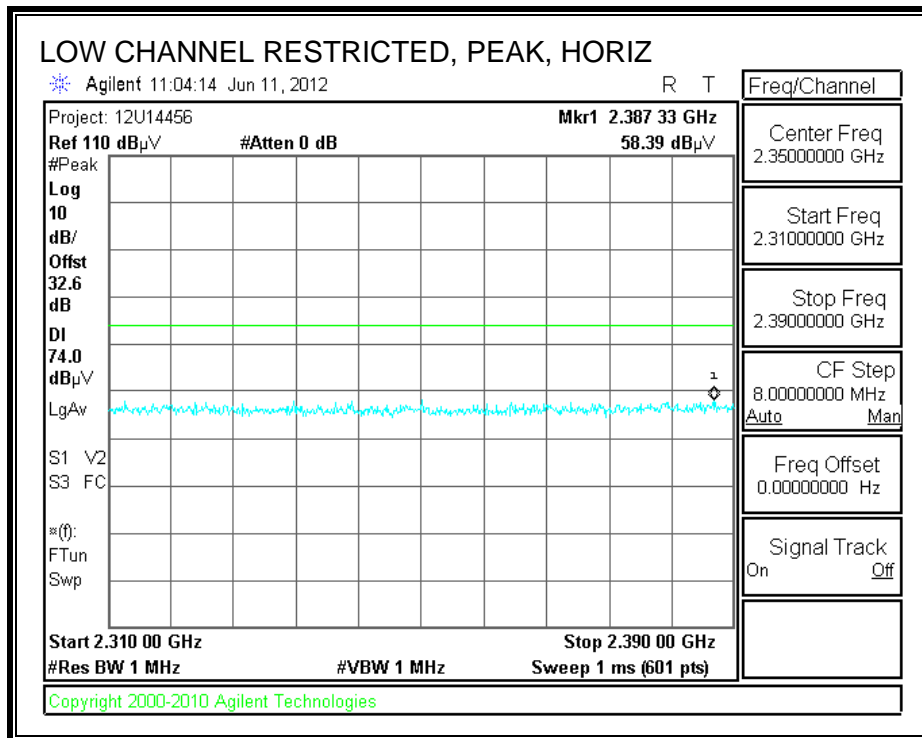
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

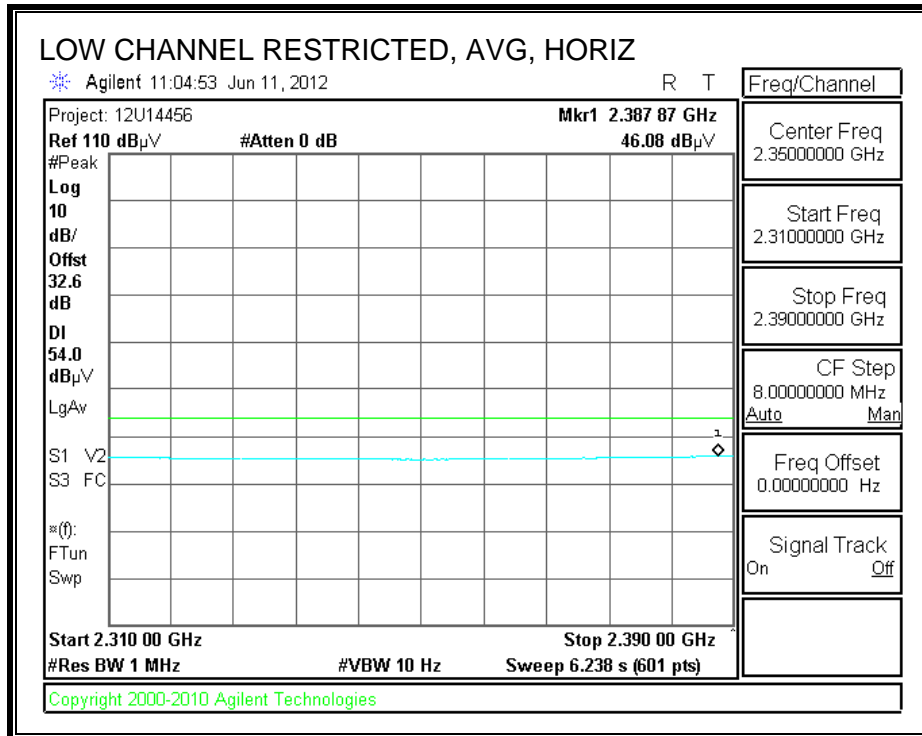
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

7.2. TRANSMITTER ABOVE 1 GHz

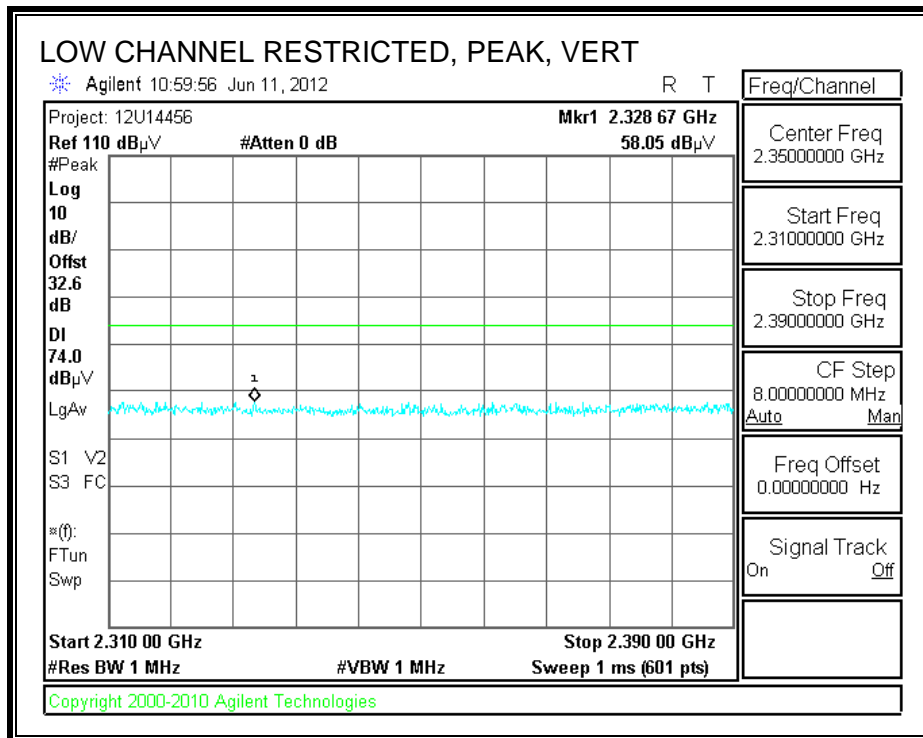
7.2.1. TX ABOVE 1 GHz FOR 802.11b 1TX MODE IN THE 2.4 GHz BAND

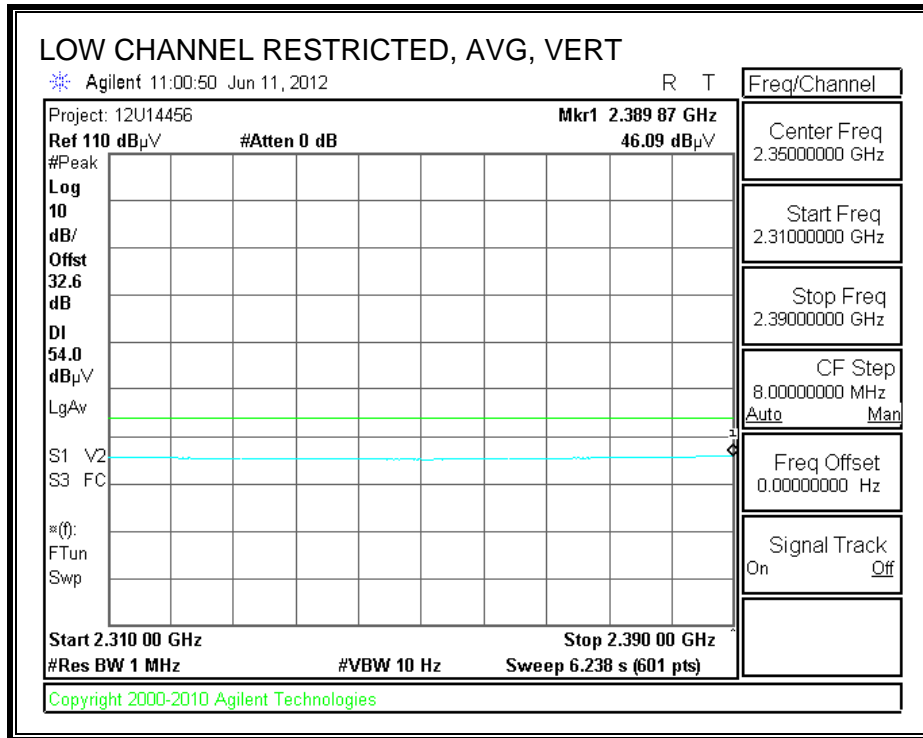
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



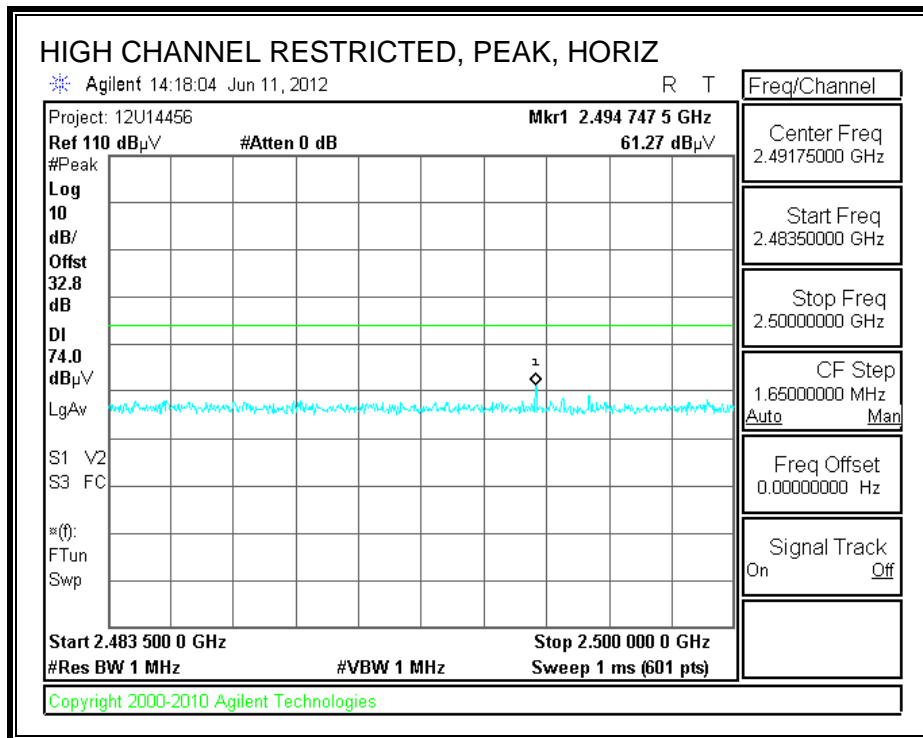


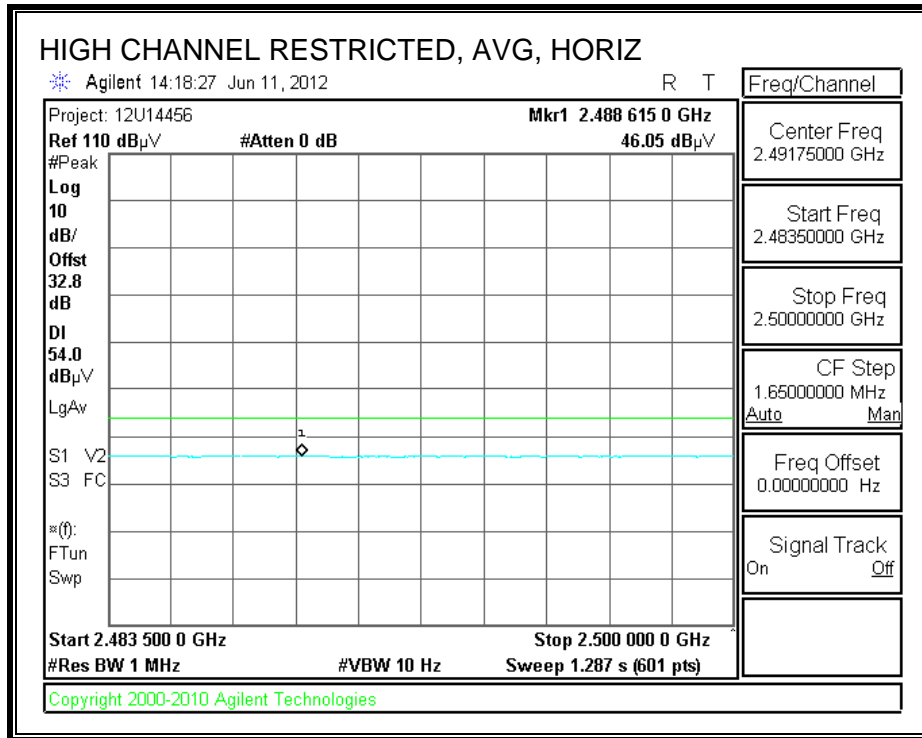
RESTRICTED BANEDGE (LOW CHANNEL, VERTICAL)



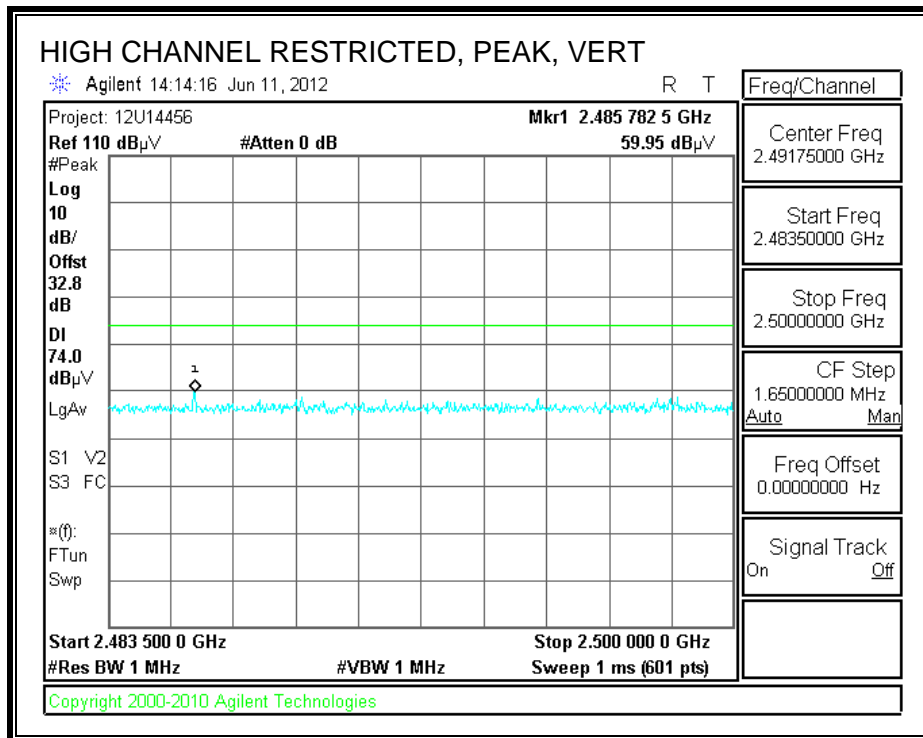


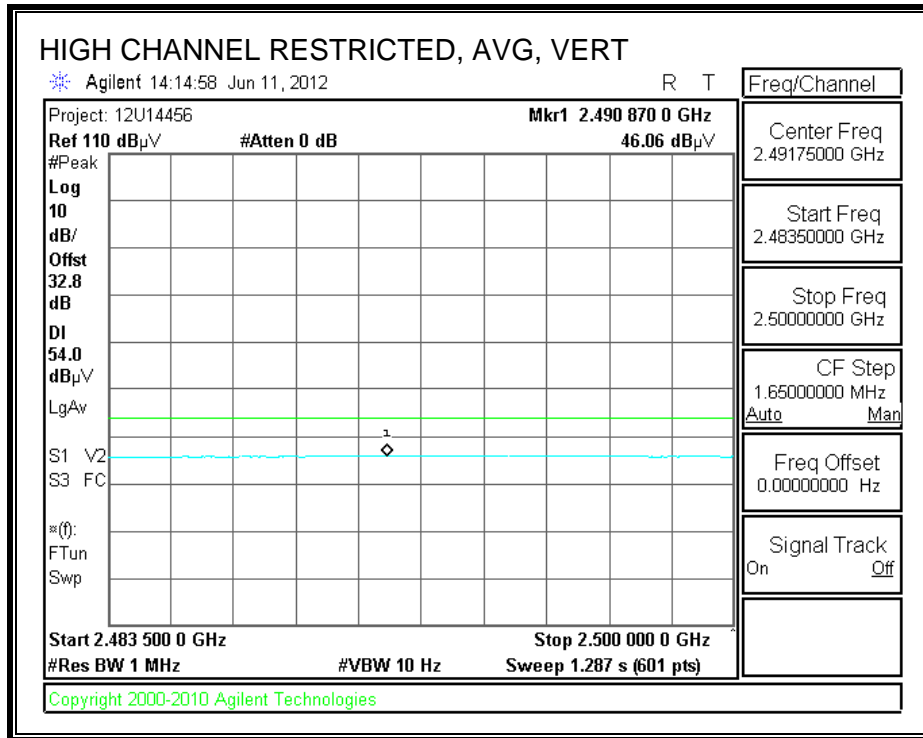
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
 Compliance Certification Services, Fremont 5m Chamber

Test Engr: Tom Chen
 Date: 06/11/12
 Project #: 12U14456
 Company: LG Electronics Inc.
 Test Target: FCC Class B
 Mode Oper: 802.11b, TX mode

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

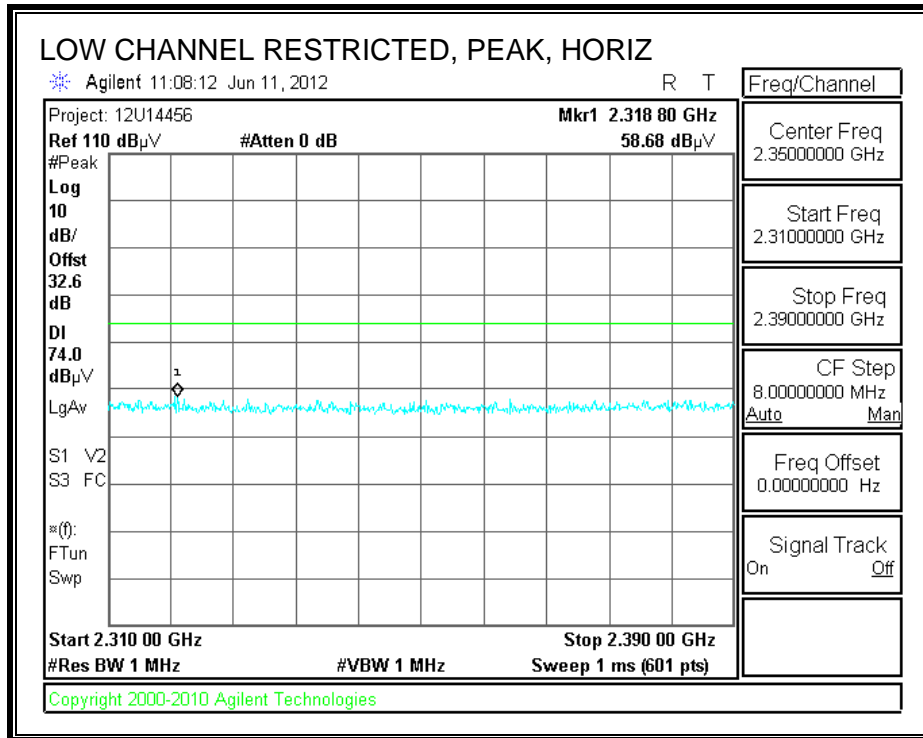
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Ftr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
2412 MHz 11b													
4.824	3.0	47.0	33.1	6.8	-34.1	0.0	0.0	52.8	74.0	-21.2	V	P	
4.824	3.0	44.1	33.1	6.8	-34.1	0.0	0.0	49.9	54.0	-4.1	V	A	
4.824	3.0	42.6	33.1	6.8	-34.1	0.0	0.0	48.4	74.0	-25.6	H	P	
4.824	3.0	38.3	33.1	6.8	-34.1	0.0	0.0	44.1	54.0	-9.9	H	A	
2437 MHz 11b													
4.874	3.0	40.5	33.2	6.8	-34.0	0.0	0.0	46.4	74.0	-27.6	H	P	
4.874	3.0	35.0	33.2	6.8	-34.0	0.0	0.0	40.9	54.0	-13.1	H	A	
4.874	3.0	48.5	33.2	6.8	-34.0	0.0	0.0	54.4	74.0	-19.6	V	P	
4.874	3.0	45.1	33.2	6.8	-34.0	0.0	0.0	51.0	54.0	-3.0	V	A	
2462 MHz 11b													
4.924	3.0	47.5	33.2	6.8	-34.0	0.0	0.0	53.5	74.0	-20.5	V	P	
4.924	3.0	42.3	33.2	6.8	-34.0	0.0	0.0	48.3	54.0	-5.7	V	A	
4.924	3.0	41.6	33.2	6.8	-34.0	0.0	0.0	47.6	74.0	-26.4	H	P	
4.924	3.0	36.4	33.2	6.8	-34.0	0.0	0.0	42.4	54.0	-11.6	H	A	

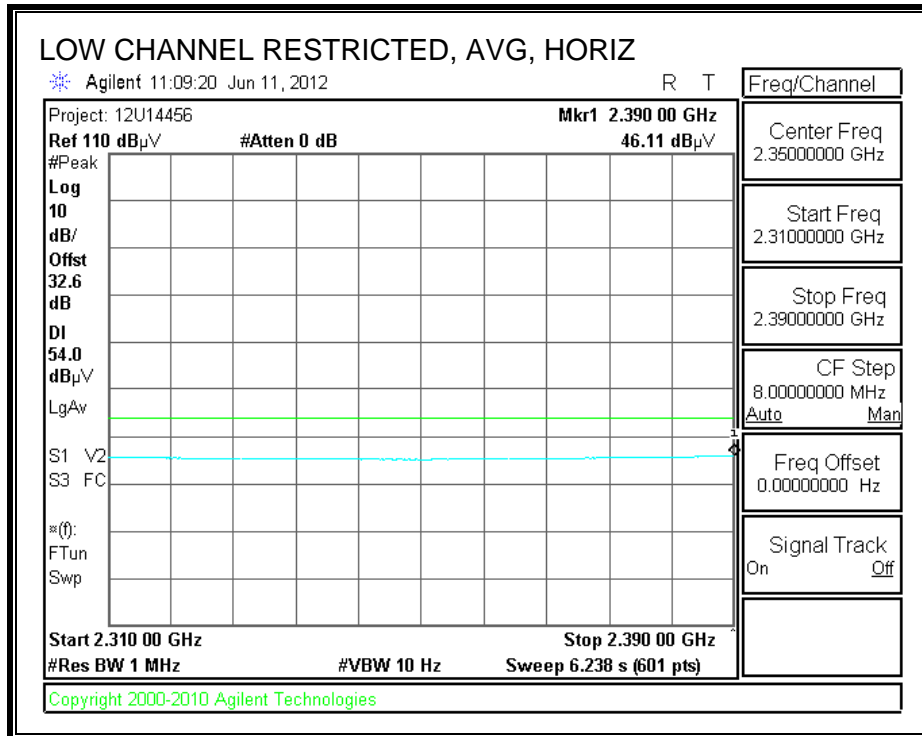
Rev. 4.1.2.7

Note: No other emissions were detected above the system noise floor.

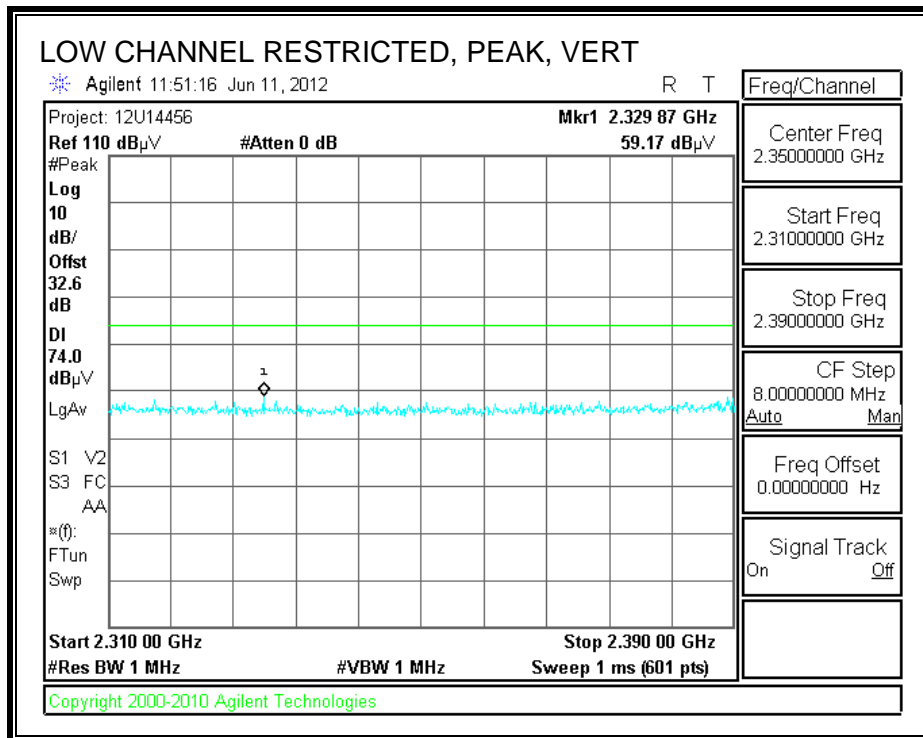
7.2.2. TX ABOVE 1 GHz FOR 802.11g 1TX MODE IN THE 2.4 GHz BAND

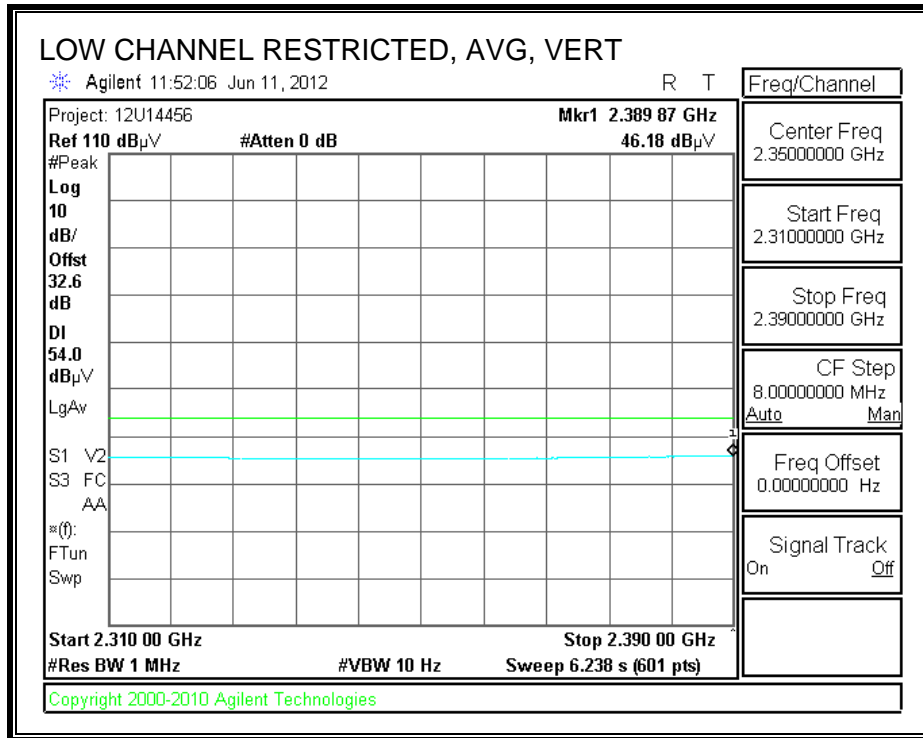
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



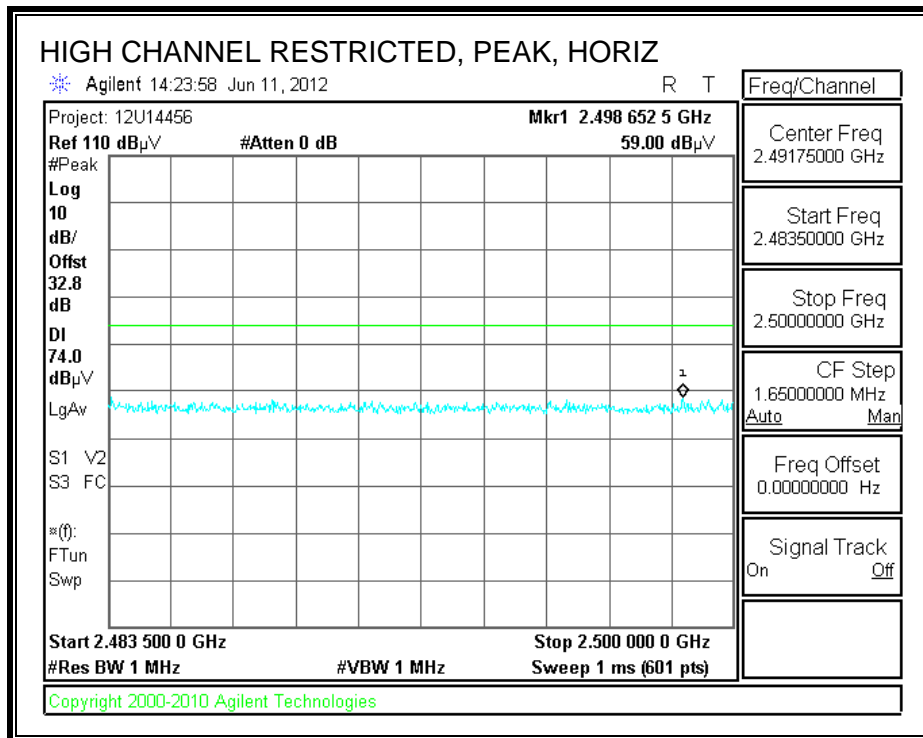


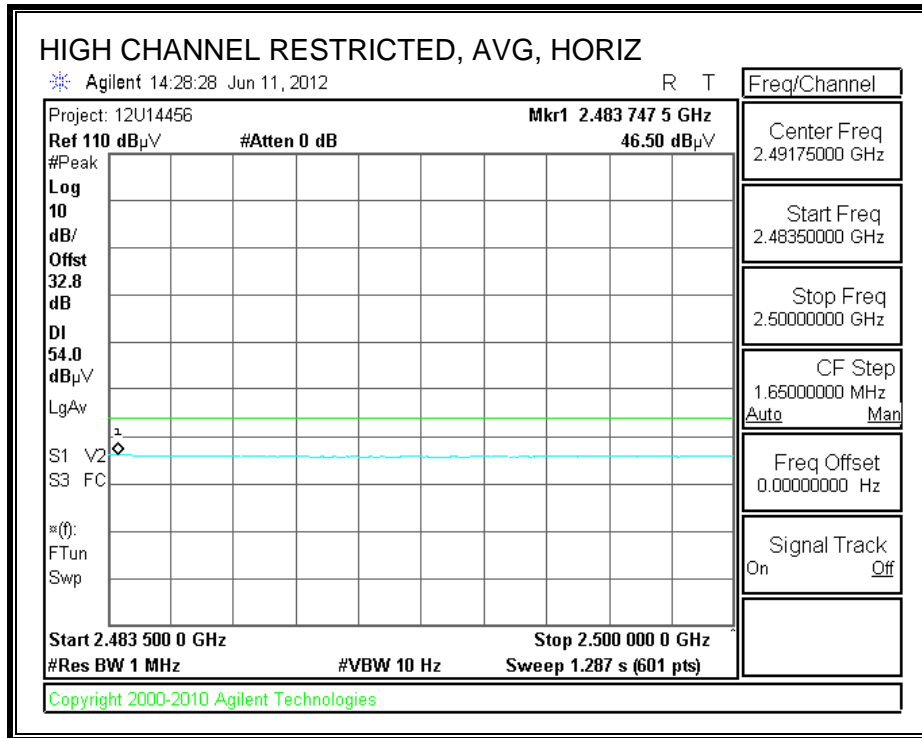
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



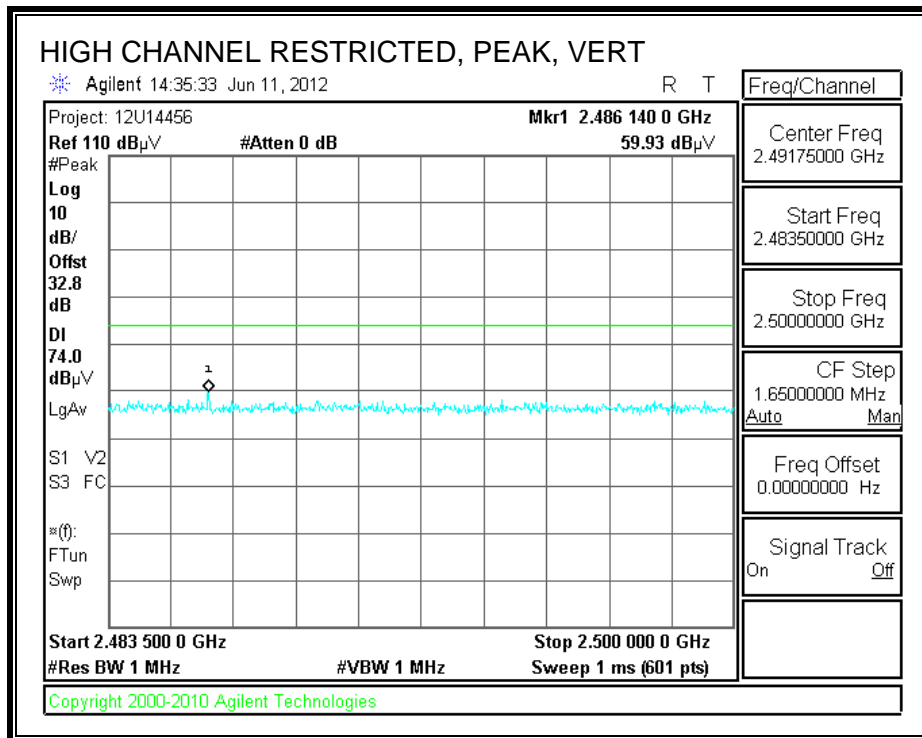


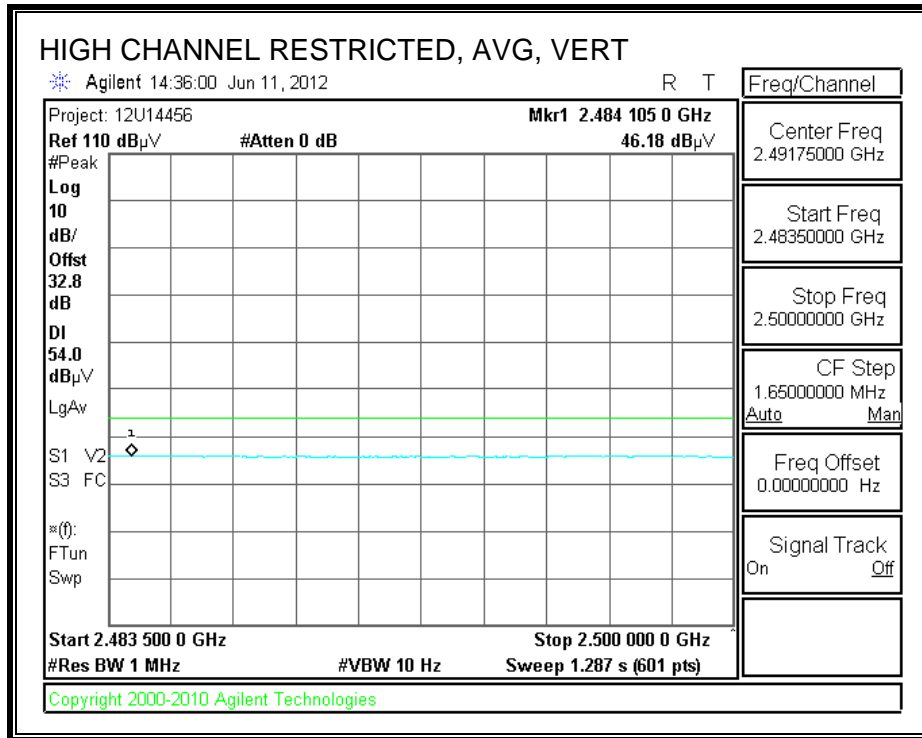
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS

**High Frequency Measurement
 Compliance Certification Services, Fremont 5m Chamber**

Test Engr: Tom Chen
Date: 06/11/12
Project #: 12U14456
Company: LG Electronics Inc.
Test Target: FCC Class B
Mode Oper: 802.11g, TX mode

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

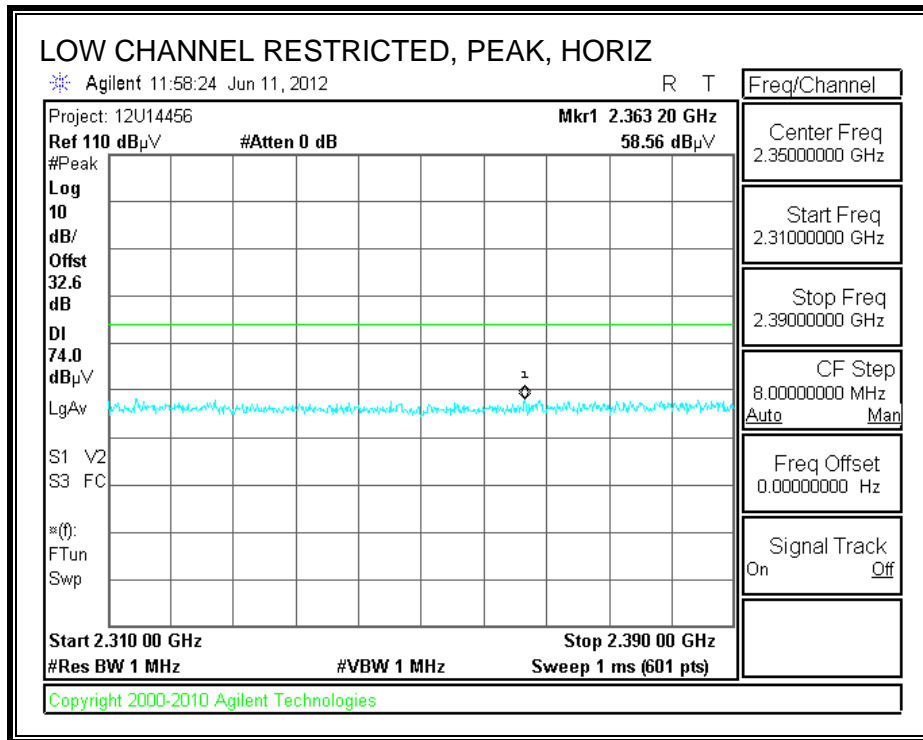
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
2412 MHz 11g													
4.824	3.0	37.6	33.1	6.8	-34.1	0.0	0.0	43.5	74.0	-30.5	H	P	
4.824	3.0	25.0	33.1	6.8	-34.1	0.0	0.0	30.9	54.0	-23.1	H	A	
4.824	3.0	42.5	33.1	6.8	-34.1	0.0	0.0	48.3	74.0	-25.7	V	P	
4.824	3.0	29.0	33.1	6.8	-34.1	0.0	0.0	34.8	54.0	-19.2	V	A	
2437 MHz 11g													
4.874	3.0	40.2	33.2	6.8	-34.0	0.0	0.0	46.1	74.0	-27.9	V	P	
4.874	3.0	28.1	33.2	6.8	-34.0	0.0	0.0	34.0	54.0	-20.0	V	A	
4.874	3.0	38.3	33.2	6.8	-34.0	0.0	0.0	44.2	74.0	-29.8	H	P	
4.874	3.0	25.2	33.2	6.8	-34.0	0.0	0.0	31.1	54.0	-22.9	H	A	
2462 MHz 11g													
4.924	3.0	41.2	33.2	6.8	-34.0	0.0	0.0	47.2	74.0	-26.8	V	P	
4.924	3.0	28.3	33.2	6.8	-34.0	0.0	0.0	34.3	54.0	-19.7	V	A	
4.924	3.0	37.7	33.2	6.8	-34.0	0.0	0.0	43.8	74.0	-30.3	H	P	
4.924	3.0	24.4	33.2	6.8	-34.0	0.0	0.0	30.4	54.0	-23.6	H	A	

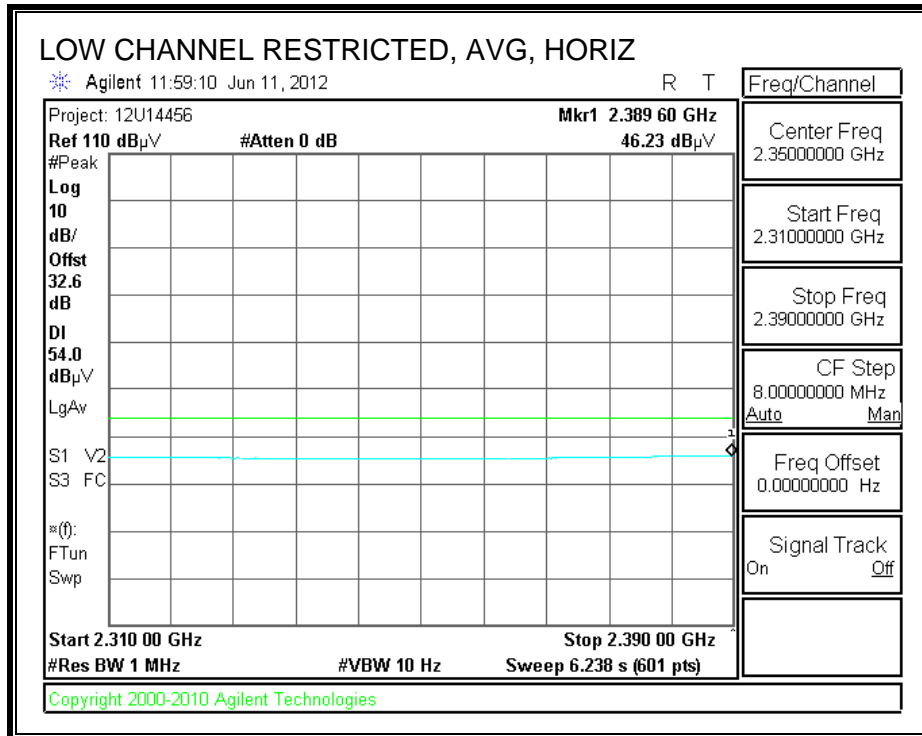
Rev. 4.1.2.7

Note: No other emissions were detected above the system noise floor.

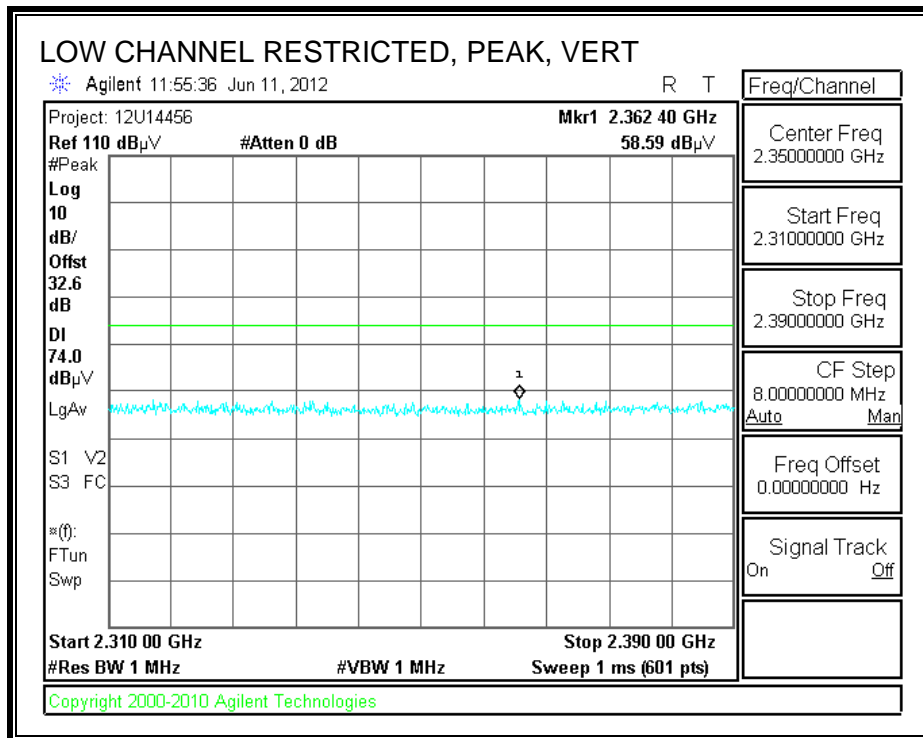
7.2.3. TX ABOVE 1 GHz FOR 802.11n HT20 1TX MODE IN THE 2.4 GHz BAND

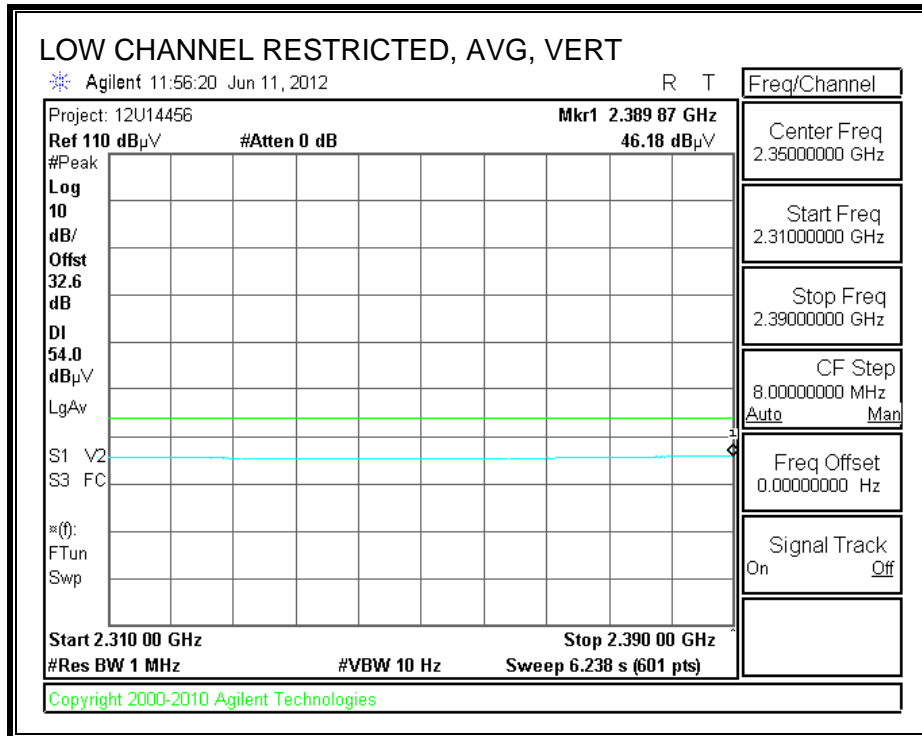
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



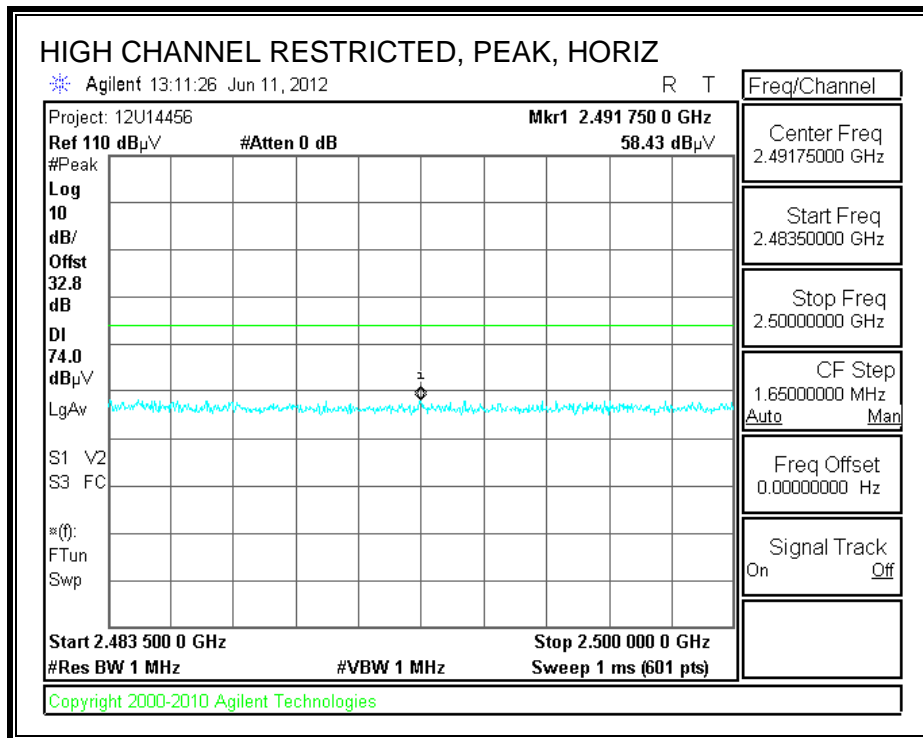


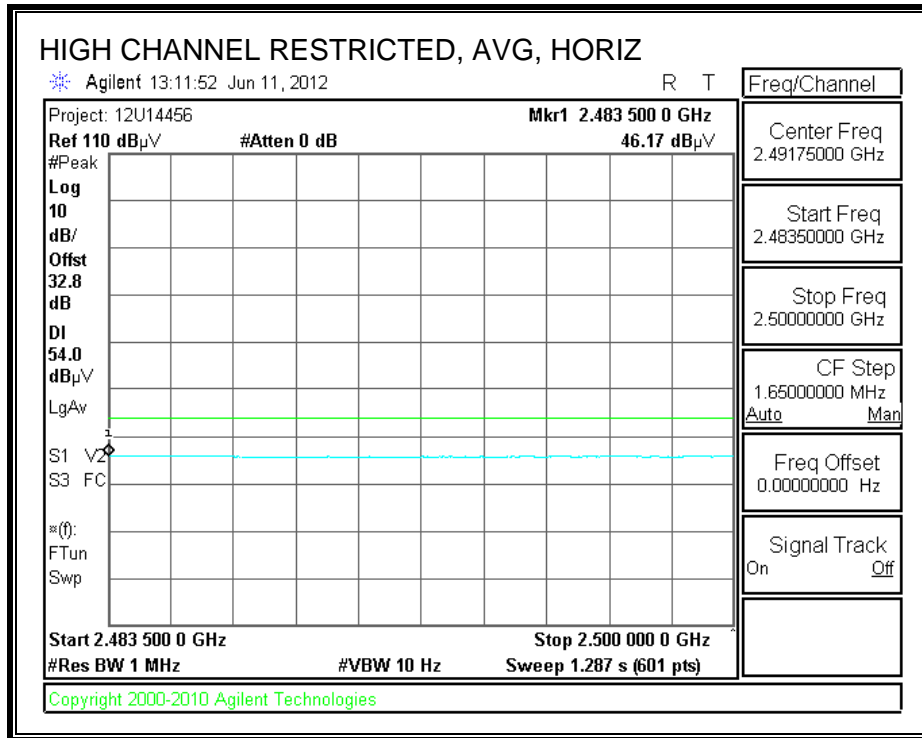
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



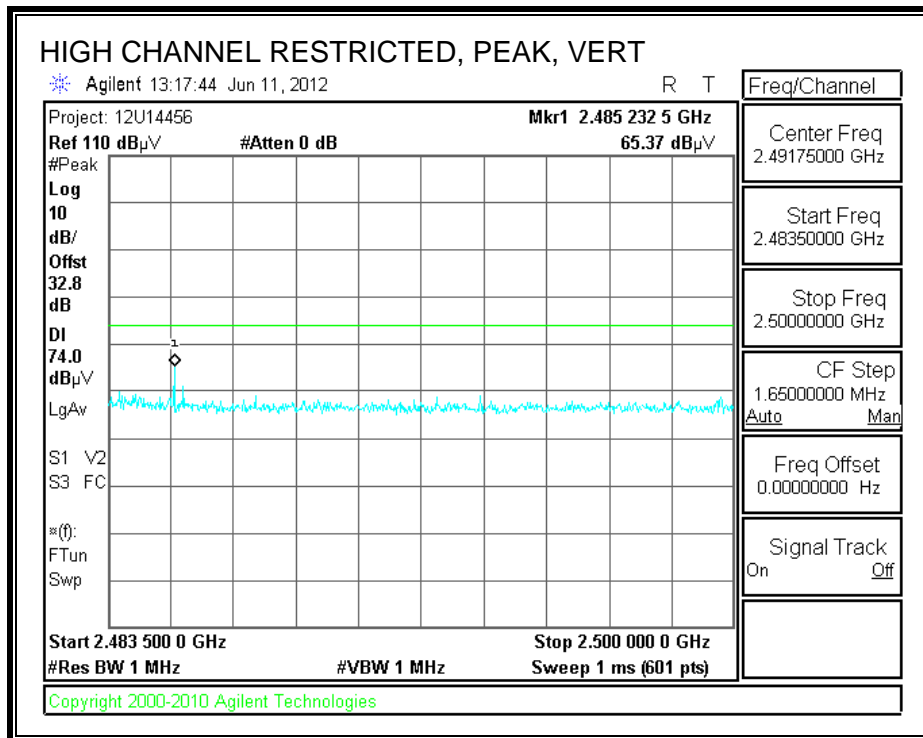


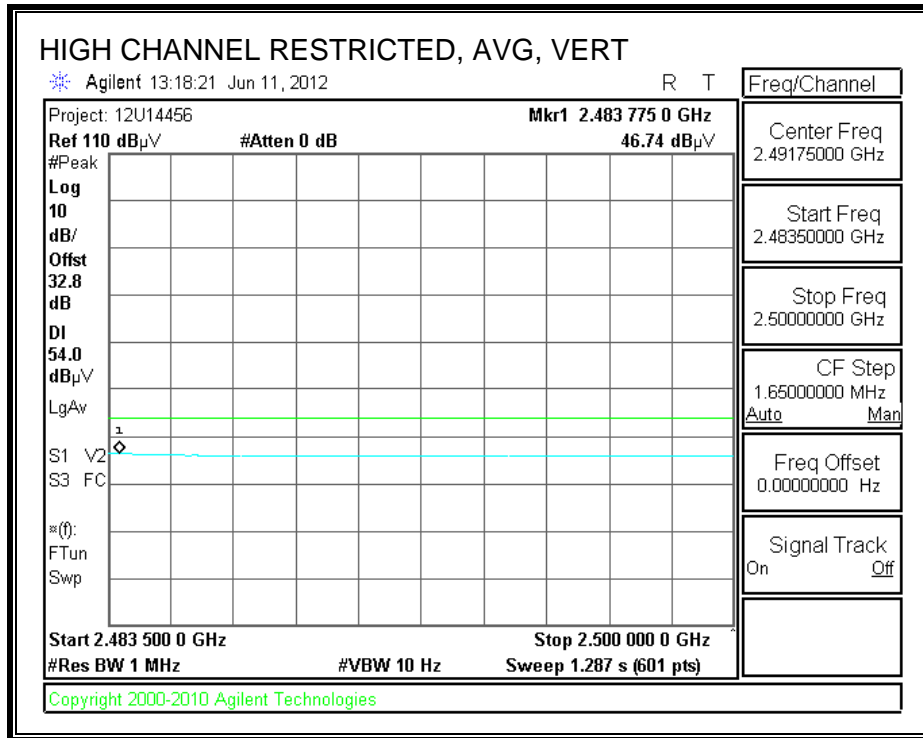
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
 Compliance Certification Services, Fremont 5m Chamber

Test Engr: Tom Chen
 Date: 06/11/12
 Project #: 12U14456
 Company: LG Electronics Inc.
 Test Target: FCC Class B
 Mode Oper: 802.11n, TX mode

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
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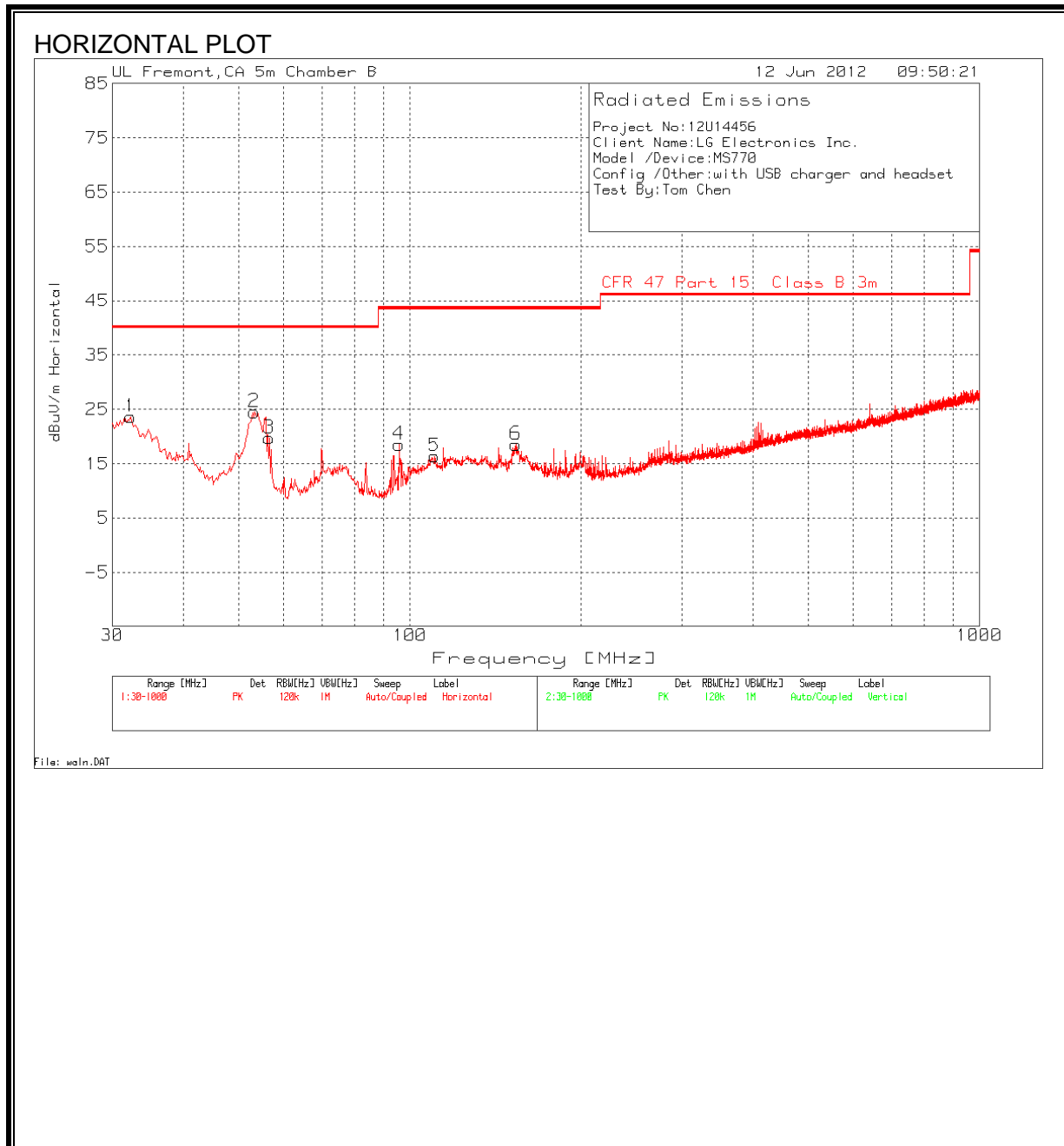
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
2412 MHz 11n													
4.824	3.0	37.9	33.1	6.8	-34.1	0.0	0.0	43.7	74.0	-30.3	V	P	
4.824	3.0	24.9	33.1	6.8	-34.1	0.0	0.0	30.8	54.0	-23.2	V	A	
4.824	3.0	37.2	33.1	6.8	-34.1	0.0	0.0	43.1	74.0	-30.9	H	P	
4.824	3.0	24.4	33.1	6.8	-34.1	0.0	0.0	30.3	54.0	-23.7	H	A	
2437 MHz 11n													
4.874	3.0	37.2	33.2	6.8	-34.0	0.0	0.0	43.1	74.0	-30.9	H	P	
4.874	3.0	24.7	33.2	6.8	-34.0	0.0	0.0	30.6	54.0	-23.4	H	A	
4.874	3.0	43.0	33.2	6.8	-34.0	0.0	0.0	48.9	74.0	-25.1	V	P	
4.874	3.0	28.6	33.2	6.8	-34.0	0.0	0.0	34.5	54.0	-19.5	V	A	
2462 MHz 11n													
4.924	3.0	41.2	33.2	6.8	-34.0	0.0	0.0	47.2	74.0	-26.8	V	P	
4.924	3.0	27.7	33.2	6.8	-34.0	0.0	0.0	33.7	54.0	-20.3	V	A	
4.924	3.0	37.3	33.2	6.8	-34.0	0.0	0.0	43.3	74.0	-30.7	H	P	
4.924	3.0	24.1	33.2	6.8	-34.0	0.0	0.0	30.1	54.0	-23.9	H	A	

Rev. 4.1.2.7

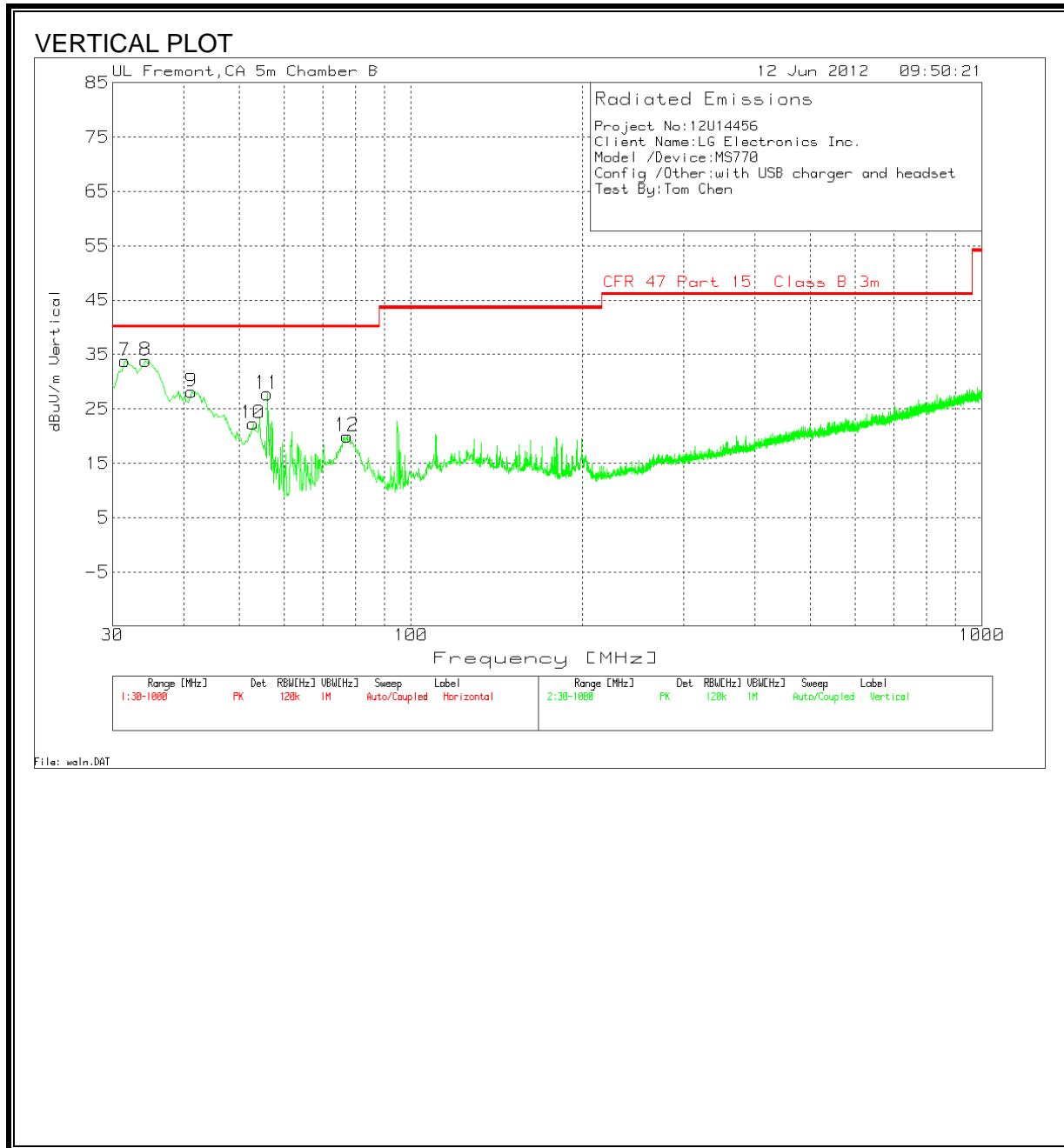
Note: No other emissions were detected above the system noise floor.

7.3. WORST-CASE BELOW 1 GHz

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



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



HORIZONTAL AND VERTICAL DATA

Project No:12U14456								
Client Name:LG Electronics Inc.								
Model /Device:MS770								
Config /Other:with USB charger and headset								
Test By:Tom Chen								

Horizontal 30 - 1000MHz

Test Frequency	Meter Reading	Detector	T122 Sunol Bilog.TXT (dB)	5mB Amp Path 30-1000MHz (dB)	dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Polarity
32.3261	33.21	PK	19.6	-29.2	23.61	40	-16.39	Horz
53.2614	46.13	PK	7.4	-29	24.53	40	-15.47	Horz
56.5568	41.39	PK	7.3	-29	19.69	40	-20.31	Horz
95.7134	38.1	PK	9	-28.6	18.5	43.5	-25	Horz
110.4456	32.16	PK	12.7	-28.5	16.36	43.5	-27.14	Horz
153.4792	34	PK	12.5	-28	18.5	43.5	-25	Horz

Vertical 30 - 1000MHz

Test Frequency	Meter Reading	Detector	T122 Sunol Bilog.TXT (dB)	5mB Amp Path 30-1000MHz (dB)	dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Polarity
31.5508	42.82	PK	20.3	-29.3	33.82	40	-6.18	Vert
34.2646	44.88	PK	18.2	-29.2	33.88	40	-6.12	Vert
41.243	44.54	PK	12.8	-29.2	28.14	40	-11.86	Vert
52.8737	43.79	PK	7.5	-29	22.29	40	-17.71	Vert
55.9752	49.56	PK	7.2	-29	27.76	40	-12.24	Vert
77.2982	40.73	PK	8	-28.8	19.93	40	-20.07	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*	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

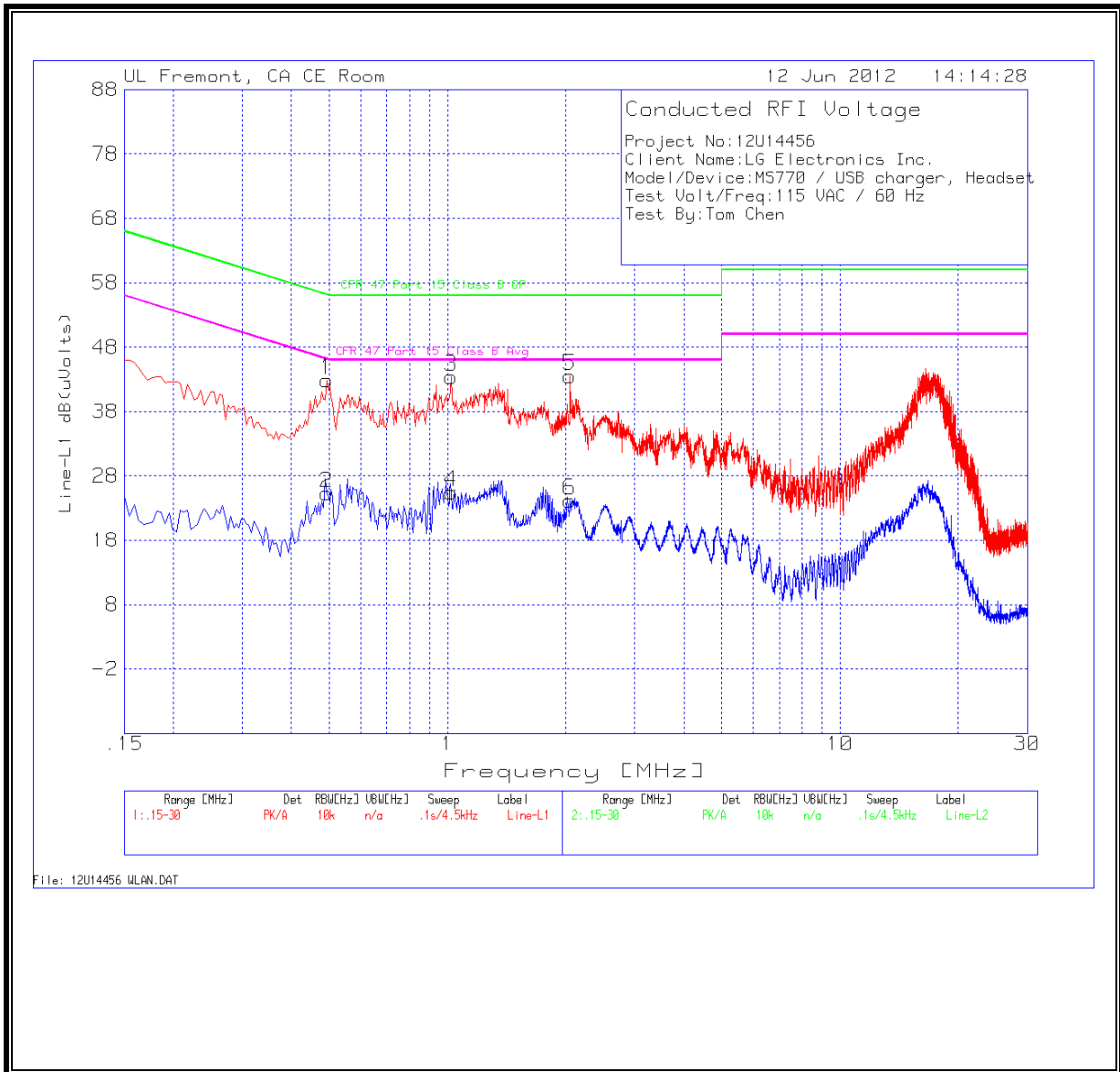
6 WORST EMISSIONS

Project No:12U14456									
Client Name:LG Electronics Inc.									
Model/Device:MS770 / USB charger, Headset									
Test Volt/Freq:115 VAC / 60 Hz									
Test By:Tom Chen									
Line-L1 .15 - 30MHz									

Test Frequency	Meter Reading	Detector	T24 IL L1.TXT (dB)	LC Cables 1&3.TXT (dB)	dB(uVolts)	CFR 47 Part 15 Class B QP	Margin	CFR 47 Part 15 Class B Avg	Margin
0.492	42.82	PK	0.1	0	42.92	56.1	-13.18	-	-
0.492	25.18	Av	0.1	0	25.28	-	-	46.1	-20.82
1.023	43.27	PK	0.1	0	43.37	56	-12.63	-	-
1.023	25.33	Av	0.1	0	25.43	-	-	46	-20.57
2.049	43.29	PK	0.1	0.1	43.49	56	-12.51	-	-
2.049	23.93	Av	0.1	0.1	24.13	-	-	46	-21.87

Test Frequency	Meter Reading	Detector	T24 IL L2.TXT (dB)	LC Cables 2&3.TXT (dB)	dB(uVolts)	CFR 47 Part 15 Class B QP	Margin	CFR 47 Part 15 Class B Avg	Margin
0.4965	39.39	PK	0.1	0	39.49	56.1	-16.61	-	-
0.4965	21.18	Av	0.1	0	21.28	-	-	46.1	-24.82
1.347	37.11	PK	0.1	0.1	37.31	56	-18.69	-	-
1.347	18.57	Av	0.1	0.1	18.77	-	-	46	-27.23
2.553	32.04	PK	0.1	0.1	32.24	56	-23.76	-	-
2.553	15.32	Av	0.1	0.1	15.52	-	-	46	-30.48

LINE 1 RESULTS



LINE 2 RESULTS

