DATE: MAY 8, 2012

FCC: ZNFVS930

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

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; the video bandwidth is set to 1 MHz for peak measurements and as applicable 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.

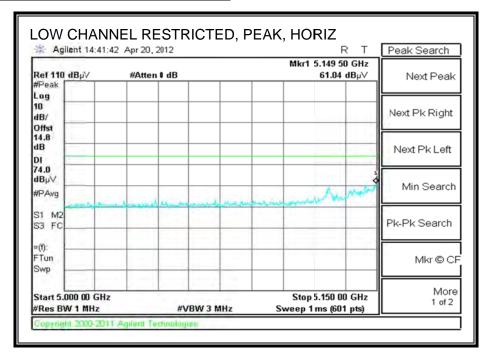
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

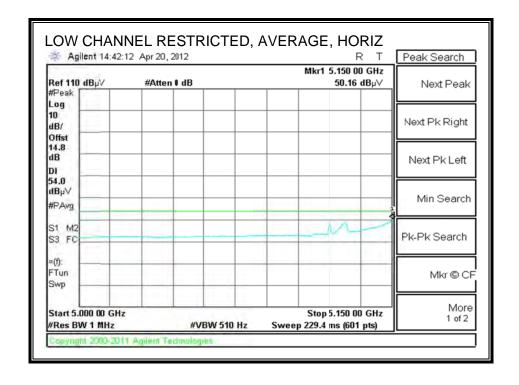
8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND

STANDARD COVER

RESTRICTED BANDEDGE (LOW CHANNEL)





Start 5.000 00 GHz

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#Res BW 1 MHz

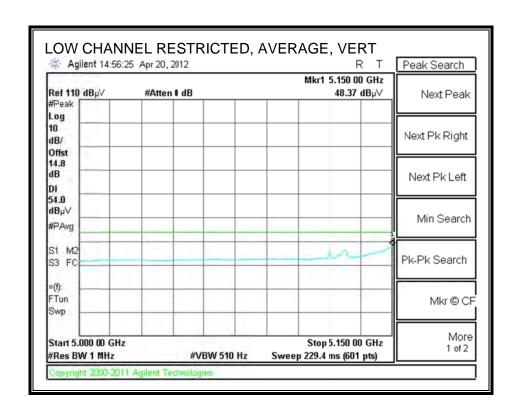
#VBW 3 MHz

Stop 5.150 00 GHz

Sweep 1 ms (601 pts)

1 of 2

DATE: MAY 8, 2012



High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang Date: 04/20/12 Project #: 12U14331 Company: LG FCC 15.407 Test Target:

Mode Oper: 5.2GHz band, a mode, TX

Configuration: EUT(Standard Cover) and AC adadpter

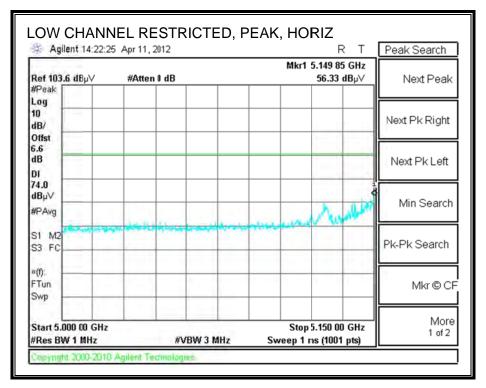
Measurement Frequency Amp Preamp Gain Average Field Strength Limit Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
AF Antenna Factor Peak Calculated Peak Field Strength Margin vs. Peak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

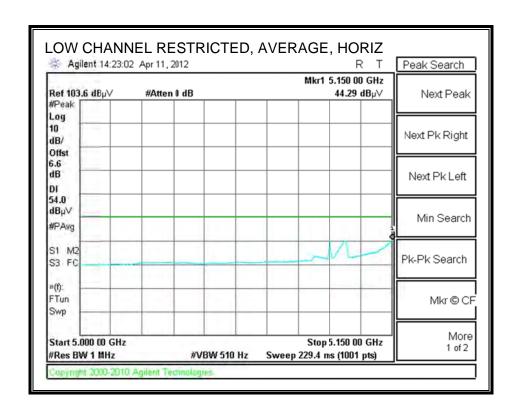
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB		Corr. dBuV/m		Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
Low Ch.	180MH:	z											
15.540	3.0	35.2	39.0	12.2	-34.0	0.0	0.7	53.2	74.0	-20.8	V	P	
15.540	3.0	23.6	39.0	12.2	-34.0	0.0	0.7	41.5	54.0	-12.5	V	A	
15.540	3.0	35.8	39.0	12.2	-34.0	0.0	0.7	53.7	74.0	-20.3	H	P	
15.540	3.0	23.6	39.0	12.2	-34.0	0.0	0.7	41.5	54.0	-12.5	H	A	
Mid Ch, 5	200MH												
15.600	3.0	35.6	38.8	12.2	-34.0	0.0	0.7	53.3	74.0	-20.7	V	P	
15.600	3.0	23.6	38.8	12.2	-34.0	0.0	0.7	41.4	54.0	-12.6	V	A	
15.600	3.0	35.3	38.8	12.2	-34.0	0.0	0.7	53.0	74.0	-21.0	H	P	
15.600	3.0	23.6	38.8	12.2	-34.0	0.0	0.7	41.4	54.0	-12.6	H	A	
High Ch,	5240MH	[z										······································	
15.720	3.0	35.7	38.4	12.3	-34.0	0.0	0.7	53.1	74.0	-20.9	V	P	
15.720	3.0	23.6	38.4	12.3	-34.0	0.0	0.7	41.1	54.0	-12.9	V	A	
15.720	3.0	36.3	38.4	12.3	-34.0	0.0	0.7	53.7	74.0	-20.3	H	P	
15.720	3.0	23.6	38.4	12.3	-34.0	0.0	0.7	41.1	54.0	-12.9	H	A	

Rev. 4.1.2.7

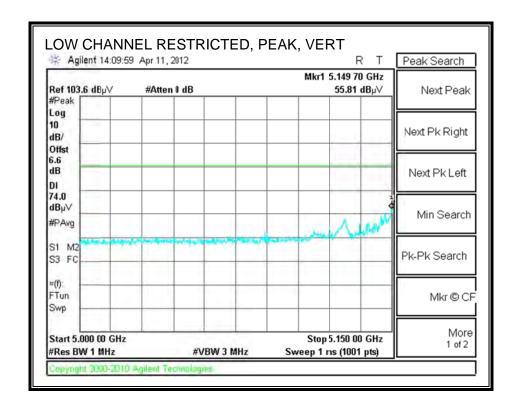
INDUCTIVE COVER

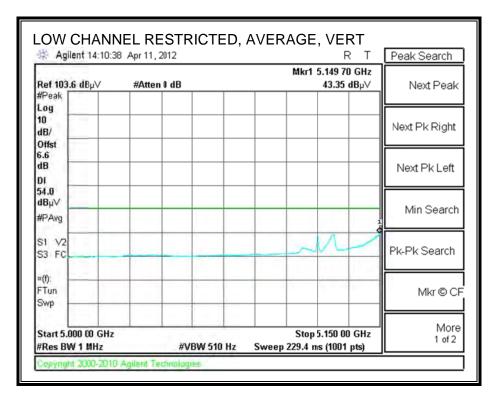
RESTRICTED BANDEDGE (LOW CHANNEL)





DATE: MAY 8, 2012





High Frequency Measurement

Compliance Certification Services, Fremont 3m Chamber

Test Engr: Dennis Huang 04/11/12 Date: Project #: 12U14331 Company: LG Test Target: FCC 15.205

Mode Oper: 802.11a Tx Mode (Inducting Cover)

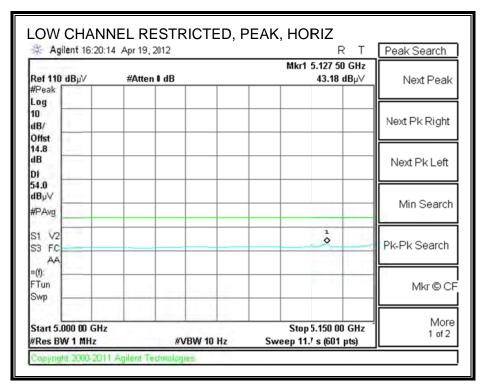
Measurement Frequency Amp Preamp Gain Average Field Strength Limit Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit
Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
AF Antenna Factor Peak Calculated Peak Field Strength Margin vs. Peak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

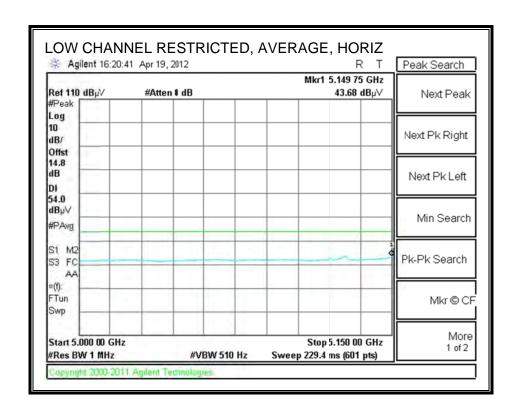
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp	D Corr dB	Fltr	Corr. dBuV/m		1	Ant. Pol. V/H	Det. P/A/QP	Notes
Low Char	nnel - 51	80MHz											
15.540	3.0	34.8	39.1	13.0	-31.9	0.0	0.7	55.6	74.0	-18.4	V	P	
15.540	3.0	24.9	39.1	13.0	-31.9	0.0	0.7	45.7	54.0	-8.3	V	A	
15.540	3.0	35.0	39.1	13.0	-31.9	0.0	0.7	55.8	74.0	-18.2	H	P	
15.540	3.0	24.9	39.1	13.0	-31.9	0.0	0.7	45.8	54.0	-8.2	Н	A	
Mid Chan	nel - 52	00MHz			**************		***********			*****************	*1041**********************************		
15.600	3.0	34.0	38.8	13.0	-31.9	0.0	0.7	54.7	74.0	-19.3	V	P	
15.600	3.0	24.9	38.8	13.0	-31.9	0.0	0.7	45.5	54.0	-8.5	V	A	
15.600	3.0	33.7	38.8	13.0	-31.9	0.0	0.7	54.3	74.0	-19.7	H	P	
15.600	3.0	24.9	38.8	13.0	-31.9	0.0	0.7	45.6	54.0	-8.4	H	A	
High Cha	nnel - 5	240MHz											
15.720	3.0	33.5	38.4	13.1	-31.9	0.0	0.7	53.8	74.0	-20.2	V	P	
15.720	3.0	24.7	38.4	13.1	-31.9	0.0	0.7	45.0	54.0	-9.0	V	A	
15.720	3.0	34.1	38.4	13.1	-31.9	0.0	0.7	54.4	74.0	-19.6	H	P	
15.720	3.0	24.7	38.4	13.1	-31.9	0.0	0.7	45.0	54.0	-9.0	н	A	

Rev. 4.1.2.7

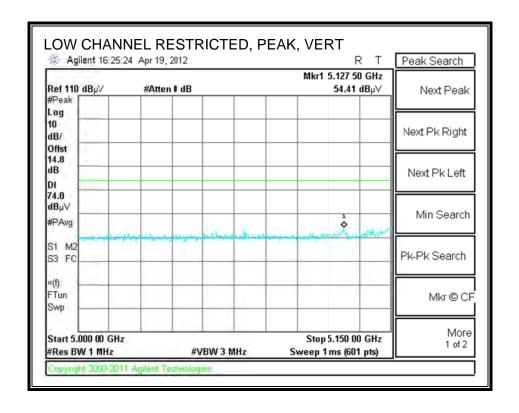
ON INDUCTIVE CHARGER PAD

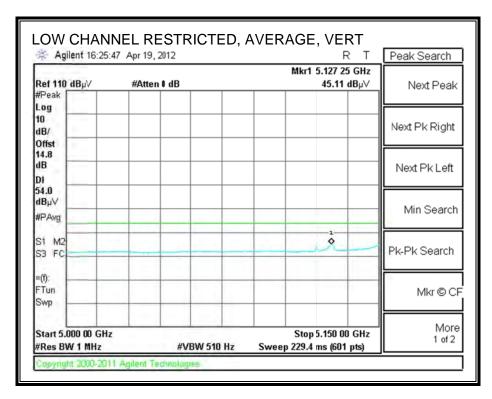
RESTRICTED BANDEDGE (LOW CHANNEL)





DATE: MAY 8, 2012





High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Chin Pang Test Engr: Date: 04/20/12 Project #: 12U14331 Company: Test Target: FCC 15.407

Configuration: EUT (On Inductive Charging Pad) Mode Oper: 5.2GHz, a mode, TX (Worst Case)

> £ 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 Arg 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	D Corr dB	Fltr dB	Corr. dBuV/m	Limit dBuVm		Ant. Pol. V/H	Det. P/A/QP	Notes
fid Ch, 5	200MH	2											
5.600	3.0	35.5	38.8	12.2	-34.0	0.0	0.7	53.2	74.0	-20.8	H	P	
5.600	3.0	23.6	38.8	12.2	-34.0	0.0	0.7	41.4	54.0	-12.6	H	A	
5.600	3.0	36.3	38.8	12.2	-34.0	0.0	0.7	54.1	74.0	-19.9	V	P	
5.600	3.0	23.6	38.8	12.2	-34.0	0.0	0.7	41.3	54.0	-12.7	V	A	

Rev. 4.1.2.7

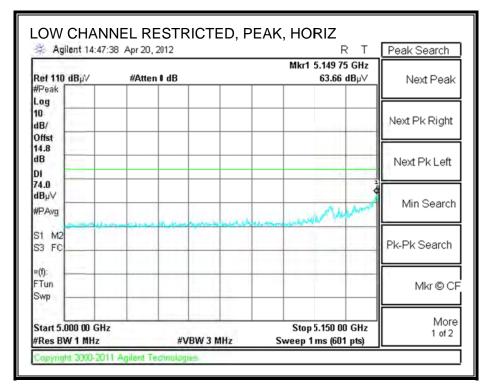
Note: No other emissions were detected above the system noise floor.

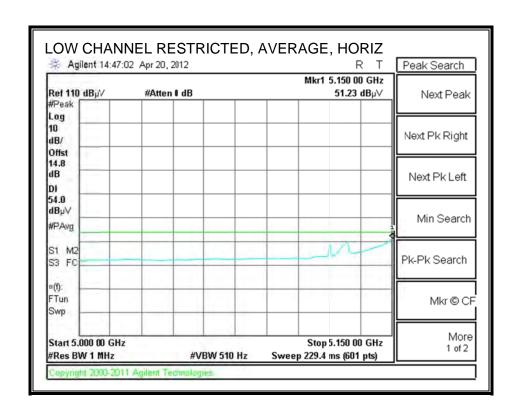
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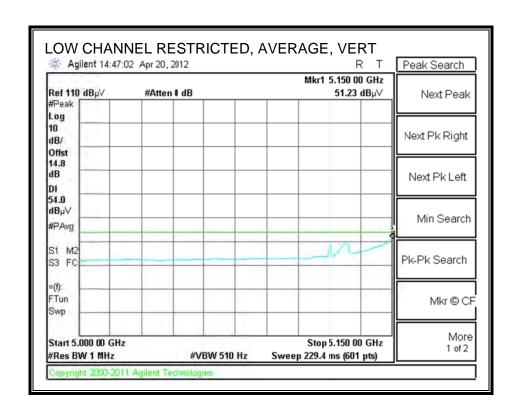
8.2.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

STANDARD COVER

RESTRICTED BANDEDGE (LOW CHANNEL)







DATE: MAY 8, 2012

High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

 Test Engr:
 Chin Pang

 Date:
 04/20/12

 Project #:
 12U14331

 Company:
 LG

 Test Target:
 FCC 15.407

Mode Oper: 5.2GHz band, HT20 mode, TX

Configuration: EUT(Standard Cover) and AC adadpter

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	D Corr		Corr.			Ant. Pol. V/H	Det. P/A/QP	Notes
Low Ch. 5	180MH	z											
15.540	3.0	35.2	39.0	12.2	-34.0	0.0	0.7	53.1	74.0	-20.9	V	P	
15.540	3.0	23.6	39.0	12.2	-34.0	0.0	0.7	41.5	54.0	-12.5	V	A	
15.540	3.0	36.2	39.0	12.2	-34.0	0.0	0.7	54.2	74.0	-19.8	H	P	
15.540	3.0	23.6	39.0	12.2	-34.0	0.0	0.7	41.6	54.0	-12.4	H	A	
Mid Ch, 5	200MH	z											
15.600	3.0	35.4	38.8	12.2	-34.0	0.0	0.7	53.2	74.0	-20.8	V	P	
15.600	3.0	23.6	38.8	12.2	-34.0	0.0	0.7	41.3	54.0	-12.7	V	A	
15.600	3.0	36.1	38.8	12.2	-34.0	0.0	0.7	53.8	74.0	-20.2	H	P	
15.600	3.0	23.6	38.8	12.2	-34.0	0.0	0.7	41.3	54.0	-12.7	H	A	
High Ch,	5240MF	Iz											
15.720	3.0	35.9	38.4	12.3	-34.0	0.0	0.7	53.4	74.0	-20.6	V	P	
15.720	3.0	23.6	38.4	12.3	-34.0	0.0	0.7	41.0	54.0	-13.0	V	A	
15.720	3.0	36.0	38.4	12.3	-34.0	0.0	0.7	53.4	74.0	-20.6	H	P	
15.720	3.0	23.6	38.4	12.3	-34.0	0.0	0.7	41.0	54.0	-13.0	H	A	
***************************************								ļ	*******************************				

Rev. 4.1.2.7

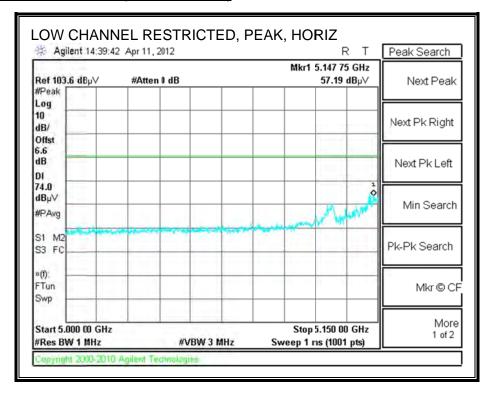
Note: No other emissions were detected above the system noise floor.

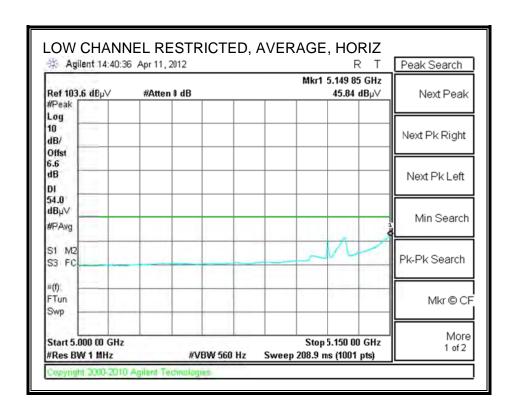
DATE: MAY 8, 2012

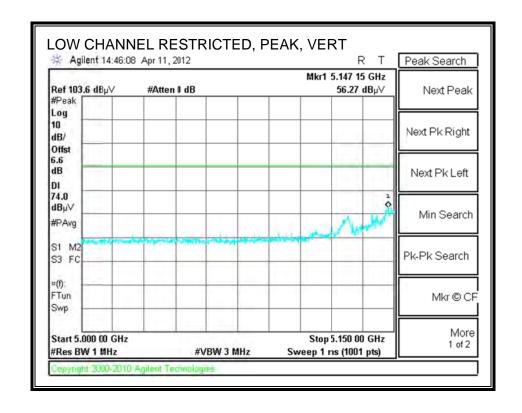
FCC: ZNFVS930

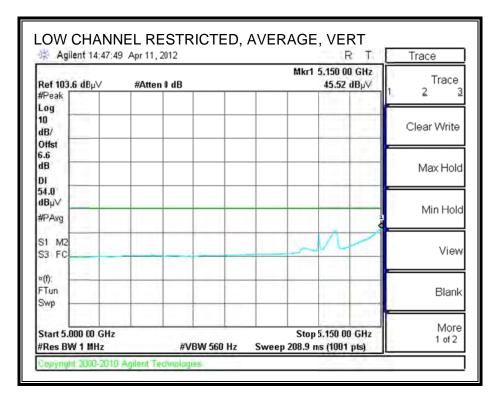
73 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0
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RESTRICTED BANDEDGE (LOW CHANNEL)









High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang Date: 04/20/12 Project #: 12U14331 LG Company: FCC 15.407 Test Target:

Mode Oper: 5.2GHz band, HT20 mode, TX Configuration: EUT(Inductive Cover) and AC adadpter

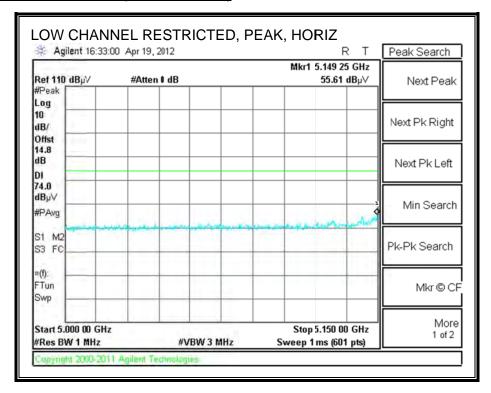
> f Measurement Frequency Amp Preamp Gain Average Field Strength Limit Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit
> Read Analyzer Reading Avg Average Field Strength @ 3 m
> AF Antenna Factor Peak Calculated Peak Field Strength Margin vs. Average Limit
> CL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

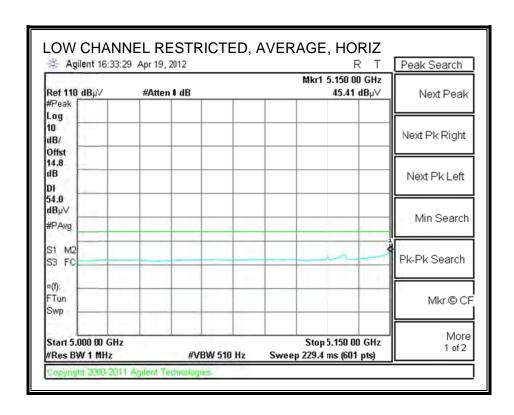
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr	Fltr dB	Corr. dBuV/m		Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
Low Ch.	180MH:	z											
15.540	3.0	36.3	39.0	12.2	-34.0	0.0	0.7	54.2	74.0	-19.8	H	P	
15.540	3.0	23.6	39.0	12.2	-34.0	0.0	0.7	41.5	54.0	-12.5	H	A	
15.540	3.0	37.0	39.0	12.2	-34.0	0.0	0.7	54.9	74.0	-19.1	V	P	
15.540	3.0	23.6	39.0	12.2	-34.0	0.0	0.7	41.5	54.0	-12.5	V	A	
Mid Ch, 5	200MH:	Z											
15.600	3.0	35.3	38.8	12.2	-34.0	0.0	0.7	53.0	74.0	-21.0	H	P	
15.600	3.0	23.5	38.8	12.2	-34.0	0.0	0.7	41.2	54.0	-12.8	H	A	
15.600	3.0	35.8	38.8	12.2	-34.0	0.0	0.7	53.6	74.0	-20.4	V	P	
15.600	3.0	23.5	38.8	12.2	-34.0	0.0	0.7	41.2	54.0	-12.8	V	A	
High Ch,	5240MF	Íz				-						<u>-</u>	
15.720	3.0	36.2	38.4	12.3	-34.0	0.0	0.7	53.7	74.0	-20.3	H	P	
15.720	3.0	23.6	38.4	12.3	-34.0	0.0	0.7	41.1	54.0	-13.0	H	A	
15.720	3.0	36.0	38.4	12.3	-34.0	0.0	0.7	53.4	74.0	-20.6	V	P	
15.720	3.0	23.6	38.4	12.3	-34.0	0.0	0.7	41.0	54.0	-13.0	V	A	
			ļ										

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ON INDUCTIVE CHARGER PAD

RESTRICTED BANDEDGE (LOW CHANNEL)





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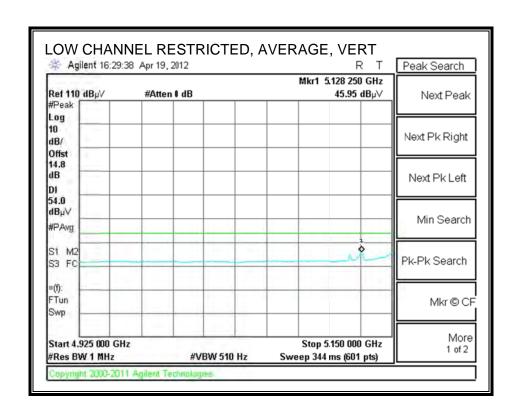
Swp

Start 4.925 000 GHz

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#Res BW 1 MHz

#VBW 3 MHz



DATE: MAY 8, 2012

Mkr © CF

Stop 5.150 000 GHz

Sweep 1 ms (601 pts)

More

1 of 2

High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

 Test Engr:
 Chin Pang

 Date:
 04/20/12

 Project #:
 12U14331

 Company:
 LG

 Test Target:
 FCC 15.407

Configuration: EUT (On Inductive Charging Pad)
Mode Oper: 5.2GHz, HT20, TX (Worst Case)

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

C Dist Part AF CI I - DC F

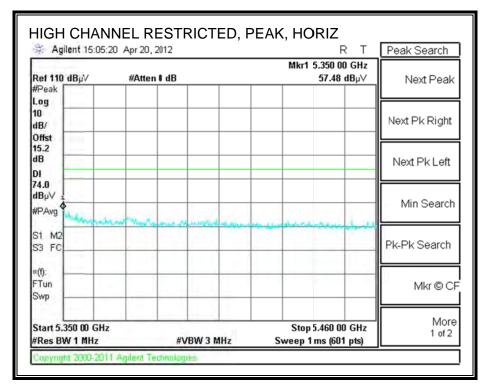
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	1		Limit dBuVm	1	Ant. Pol. V/H	Det. P/A/QP	Notes
Mid Ch, 5	5200MH	z											
15.600	3.0	35.5	38.8	12.2	-34.0	0.0	0.7	53.3	74.0	-20.7	V	P	
15.600	3.0	23.4	38.8	12.2	-34.0	0.0	0.7	41.2	54.0	-12.8	V	A	
15.600	3.0	35.6	38.8	12.2	-34.0	0.0	0.7	53.3	74.0	-20.7	H	P	
15.600	3.0	23.4	38.8	12.2	-34.0	0.0	0.7	41.2	54.0	-12.8	H	A	
	1	1	1	1 /	1	1	1	1					

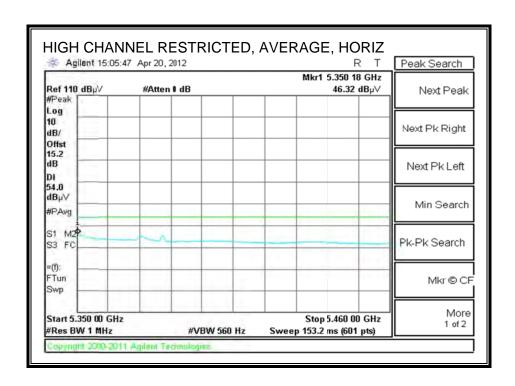
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8.2.3. 802.11a MODE IN THE 5.3 GHz BAND

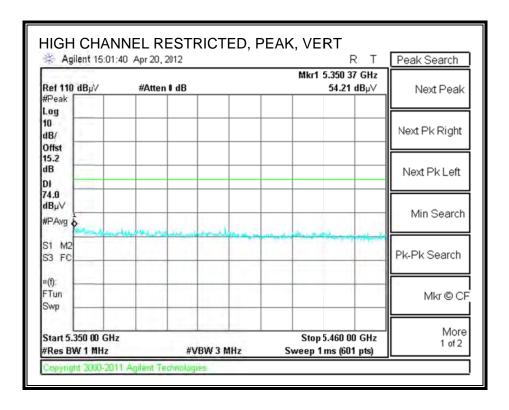
STANDARD COVER

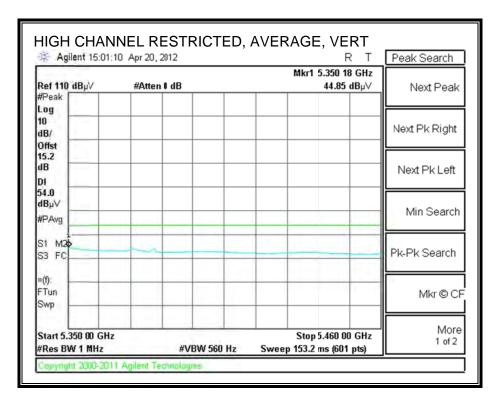
RESTRICTED BANDEDGE (HIGH CHANNEL)





DATE: MAY 8, 2012





High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang Date: 04/20/12 Project #: 12U14331 LG Company: FCC 15.407 Test Target:

Mode Oper: 5.3GHz band, a mode, TX

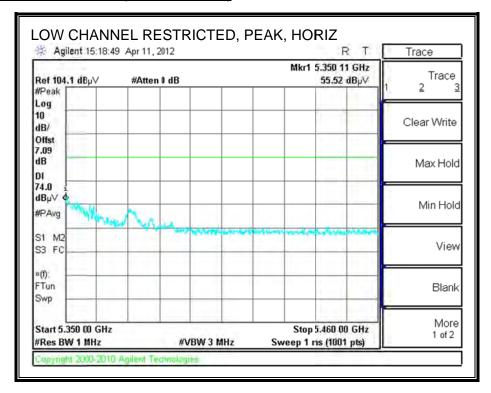
Configuration: EUT(Standard Cover) and AC adadpter

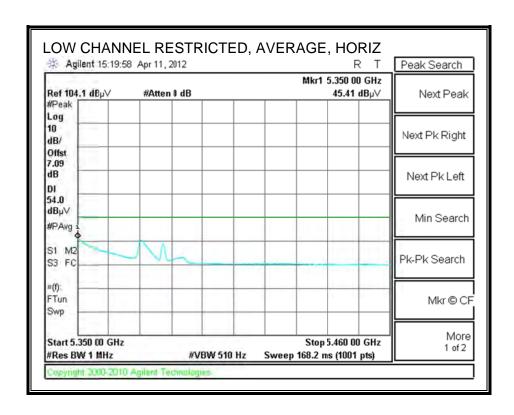
f Measurement Frequency Amp Preamp Gain Average Field Strength Limit Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit
Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
AF Antenna Factor Peak Calculated Peak Field Strength Margin vs.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

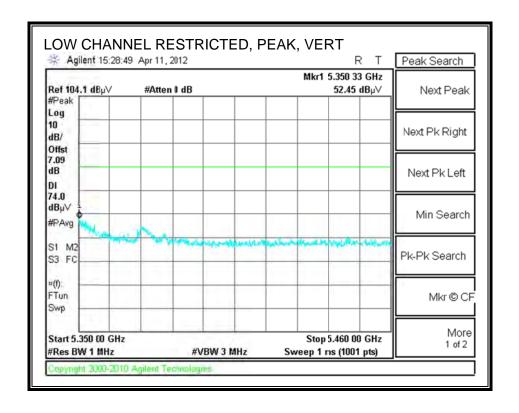
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr	Fltr dB	1 1	Limit dBuVm		Ant. Pol. V/H	Det. P/A/QP	Notes
Low Ch. 5	260MH	z											
15.780	3.0	35.7	38.2	12.3	-33.9	0.0	0.7	53.0	74.0	-21.0	Н	P	
15.780	3.0	23.4	38.2	12.3	-33.9	0.0	0.7	40.7	54.0	-13.3	H	A	
15.780	3.0	35.5	38.2	12.3	-33.9	0.0	0.7	52.8	74.0	-21.2	V	P	
15.780	3.0	23.4	38.2	12.3	-33.9	0.0	0.7	40.7	54.0	-13.3	V	A	
Mid Ch, 5	300MH:	Ε				1		1					
10.600	3.0	34.0	38.3	9.7	-35.7	0.0	0.8	47.0	74.0	-27.0	H	P	
10.600	3.0	25.1	38.3	9.7	-35.7	0.0	0.8	38.1	54.0	-15.9	H	A	
15.900	3.0	35.6	37.8	12.4	-33.9	0.0	0.7	52.6	74.0	-21.4	H	P	
15.900	3.0	22.9	37.8	12.4	-33.9	0.0	0.7	39.9	54.0	-14.1	H	A	
10.600	3.0	35.7	38.3	9.7	-35.7	0.0	0.8	48.7	74.0	-25.3	V	P	
10.600	3.0	25.1	38.3	9.7	-35.7	0.0	0.8	38.1	54.0	-15.9	V	A	
15.900	3.0	34.9	37.8	12.4	-33.9	0.0	0.7	51.9	74.0	-22.1	V	P	
15.900	3.0	22.9	37.8	12.4	-33.9	0.0	0.7	39.9	54.0	-14.1	V	A	
High Ch,	5320MF	ĺz.											
10.640	3.0	34.1	38.3	9.8	-35.7	0.0	0.8	47.2	74.0	-26.8	H	P	
10.640	3.0	25.6	38.3	9.8	-35.7	0.0	0.8	38.7	54.0	-15.3	H	A	
15.960	3.0	35.7	37.6	12.4	-33.9	0.0	0.7	52.5	74.0	-21.5	H	P	
15.960	3.0	23.1	37.6	12.4	-33.9	0.0	0.7	39.9	54.0	-14.1	H	A	
10.640	3.0	34.2	38.3	9.8	-35.7	0.0	0.8	47.3	74.0	-26.7	V	P	
10.640	3.0	24.6	38.3	9.8	-35.7	0.0	0.8	37.7	54.0	-16.3	V	A	
15.960	3.0	35.4	37.6	12.4	-33.9	0.0	0.7	52.2	74.0	-21.8	V	P	
15.960	3.0	23.1	37.6	12.4	-33.9	0.0	0.7	40.0	54.0	-14.0	V	A	

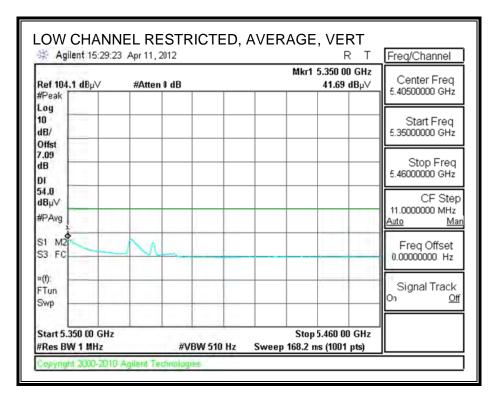
Rev. 4.1.2.7

RESTRICTED BANDEDGE (LOW CHANNEL)









High Frequency Measurement

Compliance Certification Services, Fremont 3m Chamber

Dennis Huang Test Engr: Date: 04/12/12 Project #: 12U14331 Company: LG Test Target: FCC 15.205

Mode Oper: 802.11a Tx Mode (InductiveCover)

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

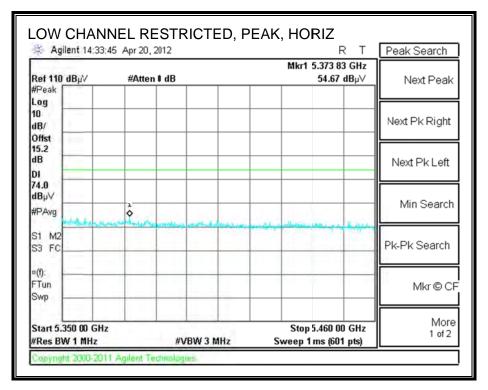
Dist Read AF CL Amp D Corr Fltr Corr. Limit Margin Ant. Pol. Det.

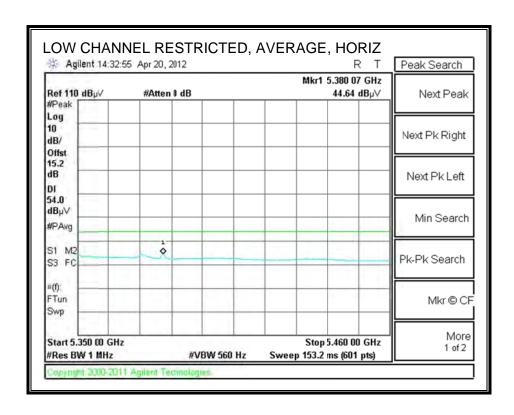
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuVm	dB	V/H	P/A/QP	
Low Char	nel - 52	60MHz											
15.780	3.0	34.8	38.2	4.8	-31.9	0.0	0.7	46.6	74.0	-27.4	V	P	
15.780	3.0	24.6	38.2	4.8	-31.9	0.0	0.7	36.4	54.0	-17.6	V	A	
15.780	3.0	34.5	38.2	4.8	-31.9	0.0	0.7	46.3	74.0	-27.7	H	P	
15.780	3.0	24.6	38.2	4.8	-31.9	0.0	0.7	36.4	54.0	-17.6	Н	A	
Mid Chan	nel - 53	00MHz					 					·	
10.600	3.0	34.8	38.4	3.3	-34.0	0.0	0.8	43.3	74.0	-30.7	V	P	
10.600	3.0	26.9	38.4	3.3	-34.0	0.0	0.8	35.3	54.0	-18.7	V	A	
10.600	3.0	34.3	38.4	3.3	-34.0	0.0	0.8	42.7	74.0	-31.3	H	P	
10.600	3.0	24.7	38.4	3.3	-34.0	0.0	0.8	33.2	54.0	-20.8	H	A	
15.900	3.0	34.7	37.8	4.8	-31.8	0.0	0.7	46.1	74.0	-27.9	V	P	
15.900	3.0	24.7	37.8	4.8	-31.8	0.0	0.7	36.1	54.0	-17.9	V	A	
15.900	3.0	34.4	37.8	4.8	-31.8	0.0	0.7	45.9	74.0	-28.1	H	P	
15.900	3.0	24.8	37.8	4.8	-31.8	0.0	0.7	36.2	54.0	-17.8	H	A	
High Cha	nnel - 5	320MHz					ļ						
10.640	3.0	34.6	38.4	3.4	-34.0	0.0	0.8	43.2	74.0	-30.8	V	P	
10.640	3.0	28.4	38.4	3.4	-34.0	0.0	0.8	37.0	54.0	-17.0	V	A	
10.640	3.0	34.5	38.4	10.0	-34.0	0.0	0.8	49.6	74.0	-24.4	H	P	
10.640	3.0	26.6	38.4	10.0	-34.0	0.0	0.8	41.7	54.0	-12.3	H	A	
15.960	3.0	34.8	37.6	13.2	-31.8	0.0	0.7	54.4	74.0	-19.6	V	P	
15.960	3.0	25.0	37.6	13.2	-31.8	0.0	0.7	44.6	54.0	-9.4	V	A	
15.960	3.0	34.5	37.6	13.2	-31.8	0.0	0.7	54.1	74.0	-19.9	H	P	
15.960	3.0	24.8	37.6	13.2	-31.8	0.0	0.7	44.4	54.0	-9.6	H	A	

Notes

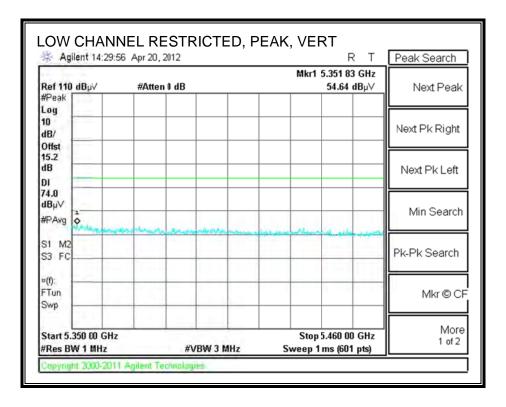
ON INDUCTIVE CHARGER PAD

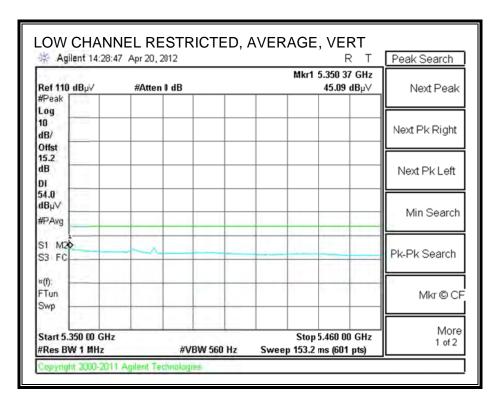
RESTRICTED BANDEDGE (LOW CHANNEL)





DATE: MAY 8, 2012





High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang 04/20/12 Date: Project #: 12U14331 Company: LG Test Target: FCC 15.407

Configuration: EUT (On Inductive Charging Pad) Mode Oper: 5.3GHz, a mode, TX (Worst Case)

> f Measurement Frequency Amp Preamp Gain Average Field Strength Limit Dist Distance to Antenna DCorr 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

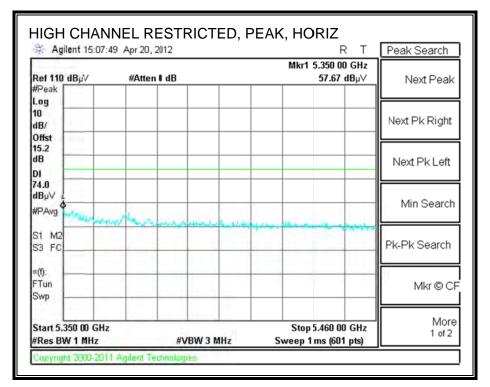
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	1	Limit dBuVm		Ant. Pol. V/H	Det. P/A/QP	Notes
Mid Ch, 5	300MH	z											
10.600	3.0	33.1	38.3	9.7	-35.7	0.0	0.8	46.1	74.0	-27.9	V	P	
10.600	3.0	24.1	38.3	9.7	-35.7	0.0	0.8	37.1	54.0	-16.9	V	A	
15.900	3.0	35.6	37.8	12.4	-33.9	0.0	0.7	52.6	74.0	-21.4	V	P	
15.900	3.0	22.8	37.8	12.4	-33.9	0.0	0.7	39.8	54.0	-14.2	V	A	
10.600	3.0	33.0	38.3	9.7	-35.7	0.0	0.8	46.0	74.0	-28.0	H	P	
10.600	3.0	22.5	38.3	9.7	-35.7	0.0	0.8	35.5	54.0	-18.5	H	A	
15.900	3.0	35.0	37.8	12.4	-33.9	0.0	0.7	52.0	74.0	-22.0	H	P	
15.900	3.0	22.9	37.8	12.4	-33.9	0.0	0.7	39.8	54.0	-14.2	Н	A	

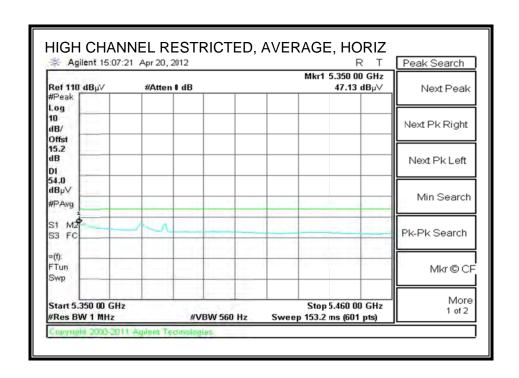
Rev. 4.1.2.7

8.2.4. 802.11n HT20 MODE IN THE 5.3 GHz BAND

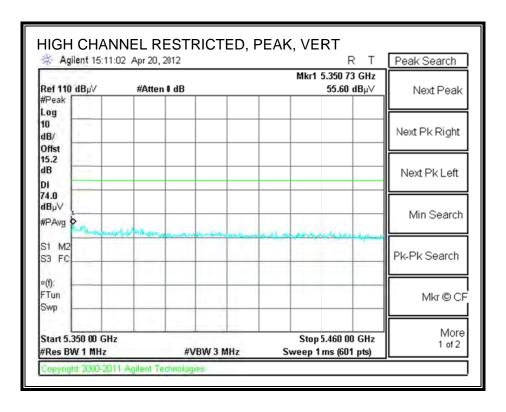
STANDARD COVER

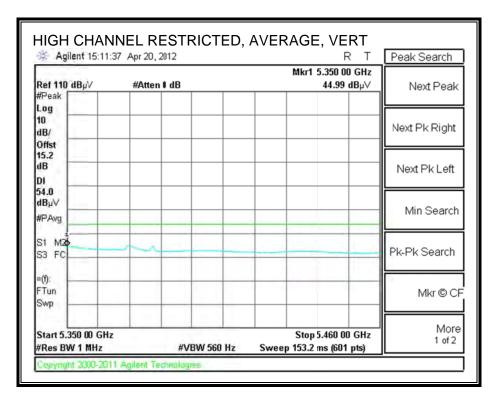
RESTRICTED BANDEDGE (HIGH CHANNEL)





DATE: MAY 8, 2012





High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang Date: 04/20/12 Project #: 12U14331 LG Company: FCC 15.407 Test Target:

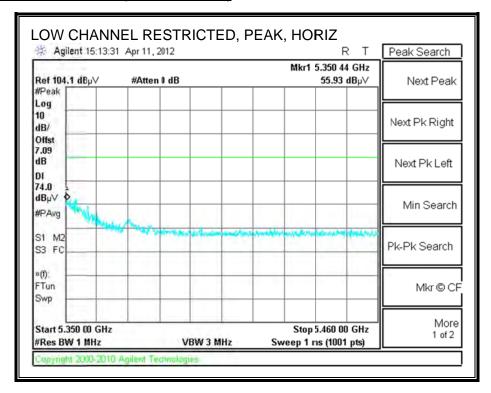
Mode Oper: 5.3GHz band, HT20 mode, TX Configuration: EUT(Standard Cover) and AC adadpter

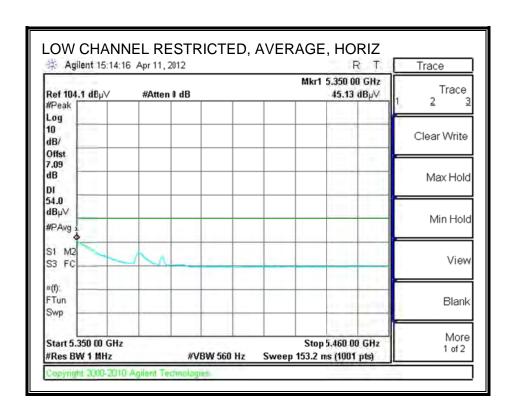
> Measurement Frequency Amp Preamp Gain Average Field Strength Limit Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit
> Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
> AF Antenna Factor Peak Calculated Peak Field Strength Margin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

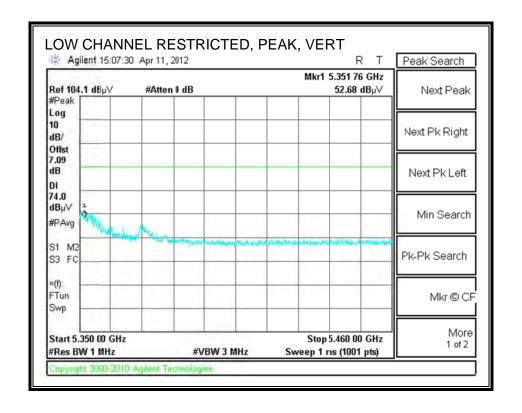
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Corr. dBuV/m		Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
Low Ch. 5	260MH	2											
15.780	3.0	35.5	38.2	12.3	-33.9	0.0	0.7	52.8	74.0	-21.2	H	P	
15.780	3.0	23.4	38.2	12.3	-33.9	0.0	0.7	40.6	54.0	-13.4	H	A	
15.780	3.0	34.9	38.2	12.3	-33.9	0.0	0.7	52.2	74.0	-21.8	V	P	
15.780	3.0	23.4	38.2	12.3	-33.9	0.0	0.7	40.7	54.0	-13.3	V	A	
Mid Ch, 5	300MH2								******************	***************************************	***************************************		
10.600	3.0	35.4	38.3	9.7	-35.7	0.0	0.8	48.4	74.0	-25.6	H	P	
10.600	3.0	26.6	38.3	9.7	-35.7	0.0	0.8	39.7	54.0	-14.3	H	A	
15.900	3.0	35.1	37.8	12.4	-33.9	0.0	0.7	52.0	74.0	-22.0	H	P	
15.900	3.0	22.8	37.8	12.4	-33.9	0.0	0.7	39.8	54.0	-14.2	H	A	
10.600	3.0	34.0	38.3	9.7	-35.7	0.0	0.8	47.0	74.0	-27.0	V	P	
10.600	3.0	24.5	38.3	9.7	-35.7	0.0	0.8	37.6	54.0	-16.4	V	A	
15.900	3.0	35.5	37.8	12.4	-33.9	0.0	0.7	52.4	74.0	-21.6	V	P	
15.900	3.0	22.8	37.8	12.4	-33.9	0.0	0.7	39.8	54.0	-14.2	V	A	
High Ch,	5320MH	[z											
10.640	3.0	35.5	38.3	9.8	-35.7	0.0	0.8	48.6	74.0	-25.4	H	P	
10.640	3.0	28.4	38.3	9.8	-35.7	0.0	0.8	41.5	54.0	-12.5	H	A	
15.960	3.0	34.9	37.6	12.4	-33.9	0.0	0.7	51.7	74.0	-22.3	H	P	
15.960	3.0	23.1	37.6	12.4	-33.9	0.0	0.7	39.9	54.0	-14.1	H	A	
10.640	3.0	34.9	38.3	9.8	-35.7	0.0	0.8	47.9	74.0	-26.1	V	P	
10.640	3.0	24.8	38.3	9.8	-35.7	0.0	0.8	37.9	54.0	-16.1	V	A	
15.960	3.0	35.0	37.6	12.4	-33.9	0.0	0.7	51.8	74.0	-22.2	V	P	
15.960	3.0	23.1	37.6	12.4	-33.9	0.0	0.7	39.9	54.0	-14.1	V	A	

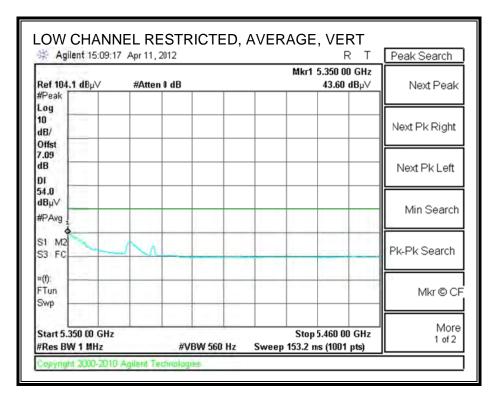
Rev. 4.1.2.7

RESTRICTED BANDEDGE (LOW CHANNEL)









High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang Date: 04/20/12 Project #: 12U14331 Company: LG FCC 15.407 Test Target:

Configuration: EUT (On Inductive Charging Pad) Mode Oper: 5.3GHz, HT20, TX (Worst Case)

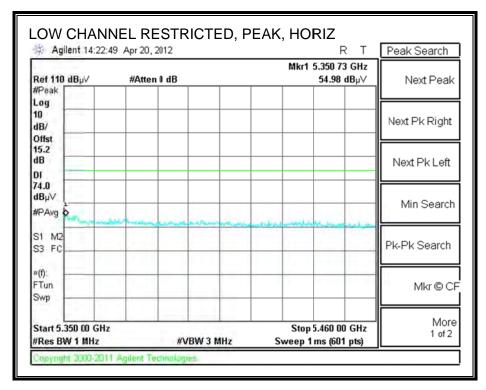
> f Measurement Frequency Amp Preamp Gain Average Field Strength Limit Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
> AF Antenna Factor Peak Calculated Peak Field Strength Margin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

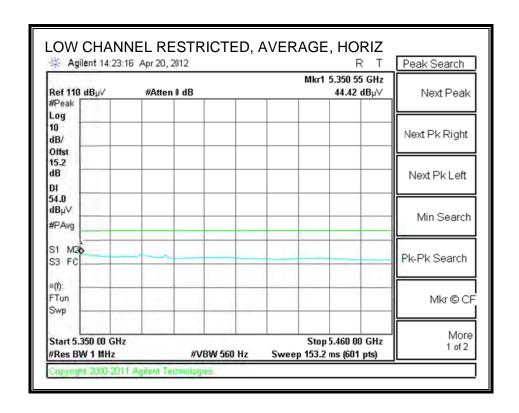
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp	D Corr			Limit dBuVm		Ant. Pol. V/H	Det. P/A/QP	Notes
Mid Ch, 5	300MH	z											
10.600	3.0	33.4	38.3	9.7	-35.7	0.0	0.8	46.4	74.0	-27.6	H	P	
10.600	3.0	23.1	38.3	9.7	-35.7	0.0	0.8	36.1	54.0	-17.9	H	A	
15.900	3.0	36.1	37.8	12.4	-33.9	0.0	0.7	53.1	74.0	-20.9	H	P	
15.900	3.0	22.8	37.8	12.4	-33.9	0.0	0.7	39.8	54.0	-14.2	H	A	
10.600	3.0	34.1	38.3	9.7	-35.7	0.0	0.8	47.1	74.0	-26.9	V	P	
10.600	3.0	23.8	38.3	9.7	-35.7	0.0	0.8	36.9	54.0	-17.1	V	A	
15.900	3.0	36.1	37.8	12.4	-33.9	0.0	0.7	53.1	74.0	-20.9	V	P	
15.900	3.0	22.8	37.8	12.4	-33.9	0.0	0.7	39.8	54.0	-14.2	V	A	

Rev. 4.1.2.7

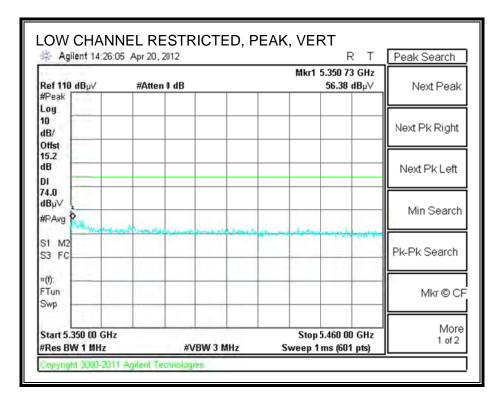
ON INDUCTIVE CHARGER PAD

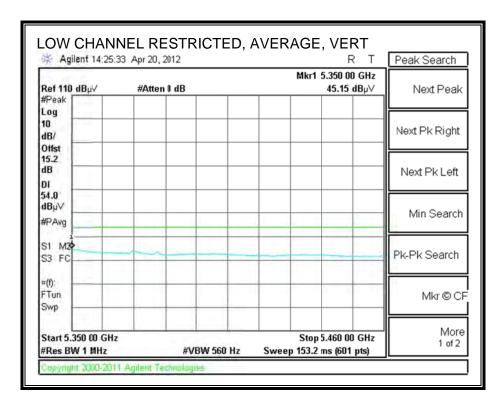
RESTRICTED BANDEDGE (LOW CHANNEL)





DATE: MAY 8, 2012





High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

 Test Engr:
 Chin Pang

 Date:
 04/20/12

 Project #:
 12U14331

 Company:
 LG

 Test Target:
 FCC 15.407

Configuration: EUT (On Inductive Charging Pad)
Mode Oper: 5.3GHz, HT20, TX (Worst Case)

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

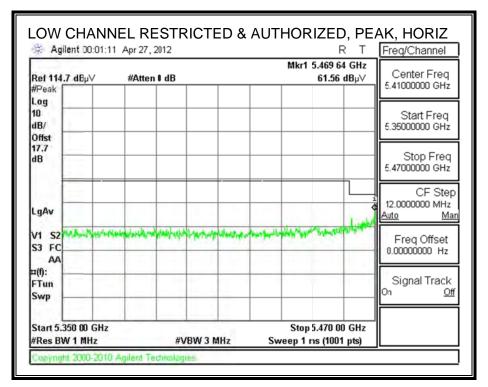
Dist Read AF D Corr Corr. Limit Margin Ant. Pol. Det. Notes CL Fltr Amp GHz (m) dBuV dB/m dB dB dBuV/m dBuV/m P/A/QP Mid Ch, 5300MHz 33.4 38.3 9.7 -35.7 0.0 0.8 46.4 -27.6 H 10.600 3.0 10.600 3.0 23.1 38.3 9.7 -35.7 0.0 0.8 36.1 54.0 -17.9 H A 15.900 3.0 36.1 37.8 12.4 -33.9 0.0 0.7 53.1 74.0 -20.9 H 15,900 3.0 22.8 37.8 12.4 -33.90.0 0.7 39.8 54.0 -14.2H 10.600 34.1 38.3 9.7 47.1 74.0 -26.9 P 3.0 -35.7 0.0 0.8 10.600 3.0 23.8 38.3 9.7 -35.7 0.0 0.8 36.9 54.0 -17.1 A 15.900 3.0 36.1 37.8 12.4 -33.9 0.0 0.7 53.1 74.0 -20.9 37.8 12.4 -33.9 15.900 3.0 22.8 0.0 0.7 39.8 54.0 -14.2 A

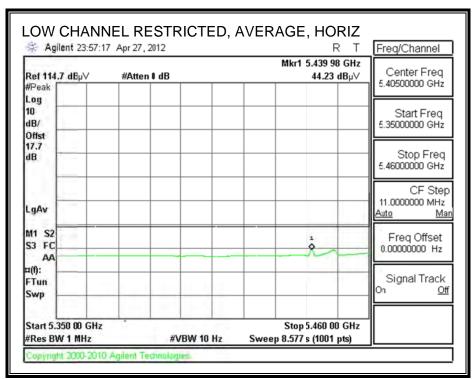
Rev. 4.1.2.7

8.2.5. 802.11a MODE IN THE 5.6 GHz BAND

STANDARD COVER

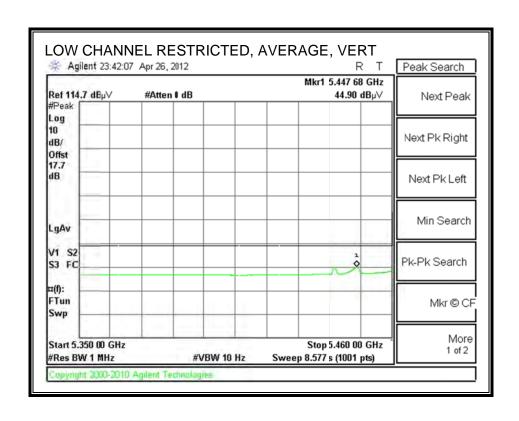
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)





DATE: MAY 8, 2012

VBW 3 MHz



Swp

Start 5.350 0 GHz

opyright 2000-2010 Agilent Technologi

#Res BW 1 MHz

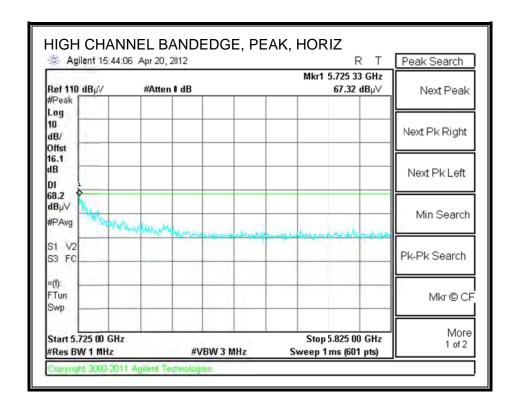
DATE: MAY 8, 2012

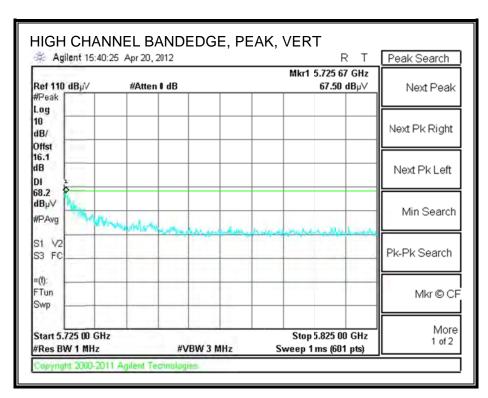
More

1 of 2

Stop 5.470 0 GHz

Sweep 1 ms (1001 pts)





High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang Date: 04/20/12 Project #: 12U14331 Company: LG FCC 15.407

Test Target: Mode Oper: 5.5GHz band, a mode, TX

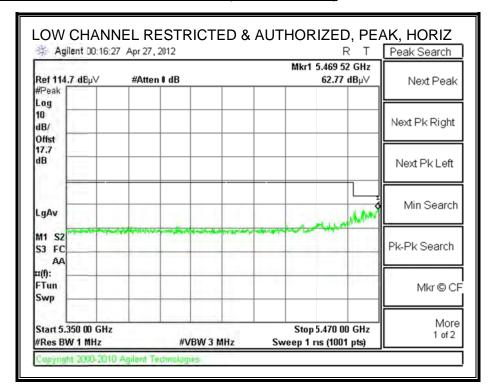
Configuration: EUT(Standard Cover) and AC adadpter

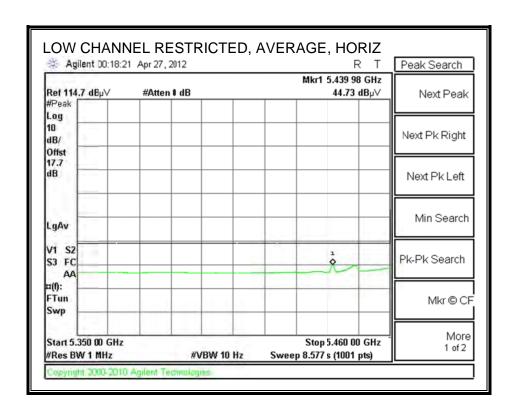
Measurement Frequency Amp Preamp Gain Average Field Strength Limit Dist Distance to Antenna D'Corr Distance Correct to 3 meters Peak Field Strength Limit Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
AF Antenna Factor Peak Calculated Peak Field Strength Margin vs. Peak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

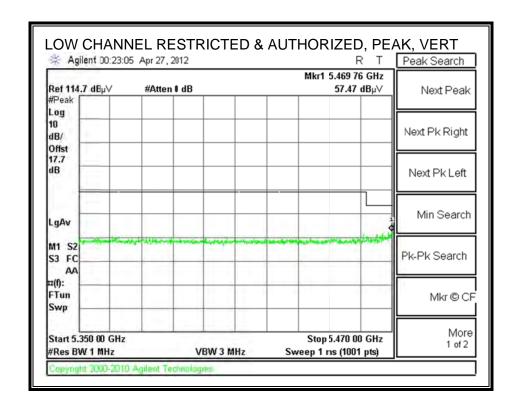
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr	Fltr dB	Corr. dBuV/m		Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
Low Ch,	5500MH	z											
11.000	3.0	38.7	38.4	10.2	-35.6	0.0	0.7	52.4	74.0	-21.6	H	P	
11.000	3.0	32.1	38.4	10.2	-35.6	0.0	0.7	45.7	54.0	-8.3	H	A	
11.000	3.0	35.2	38.4	10.2	-35.6	0.0	0.7	48.8	74.0	-25.2	V	P	
11.000	3.0	26.5	38.4	10.2	-35.6	0.0	0.7	40.1	54.0	-13.9	V	A	
Mid Ch, 5	580MHz												
11.160	3.0	35.9	38.5	10.3	-35.6	0.0	0.7	49.9	74.0	-24.1	H	P	
11.160	3.0	28.0	38.5	10.3	-35.6	0.0	0.7	42.0	54.0	-12.0	H	A	
11.160	3.0	34.9	38.5	10.3	-35.6	0.0	0.7	48.8	74.0	-25.2	V	P	
11.160	3.0	25.9	38.5	10.3	-35.6	0.0	0.7	39.8	54.0	-14.2	V	A	
High Ch,	5700MH	z			***********								
11.400	3.0	35.5	38.7	10.6	-35.6	0.0	0.7	50.0	74.0	-24.0	H	P	
11.400	3.0	26.9	38.7	10.6	-35.6	0.0	0.7	41.4	54.0	-12.6	H	A	
11.400	3.0	35.4	38.7	10.6	-35.6	0.0	0.7	50.0	74.0	-24.0	V	P	
11.400	3.0	25.4	38.7	10.6	-35.6	0.0	0.7	39.9	54.0	-14.1	V	A	

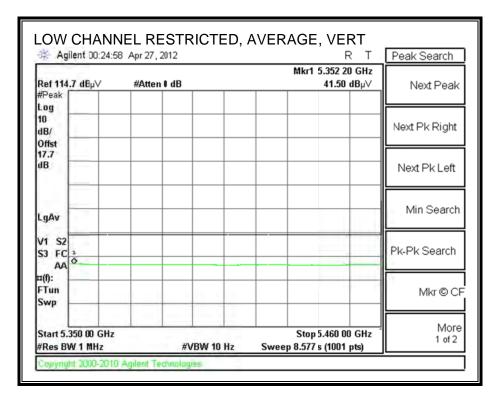
Rev. 4.1.2.7

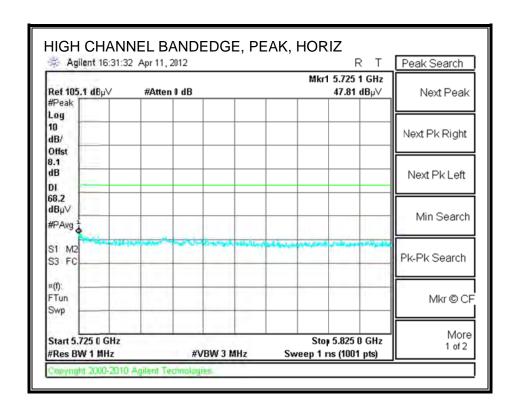
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

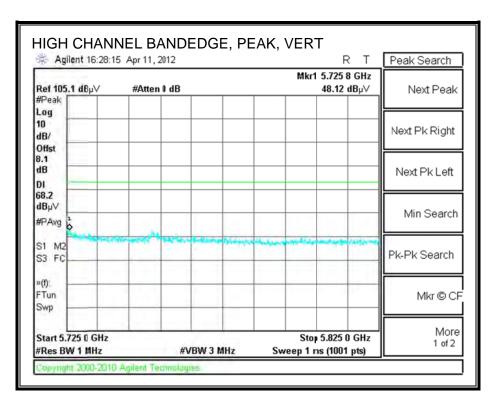












High Frequency Measurement

Compliance Certification Services, Fremont 3m Chamber

Test Engr: Dennis Huang
Date: 04/11/12
Project #: 12U14331
Company: LG
Test Target: FCC 15.205

Mode Oper: 802.11a Tx Mode (Inducting Case with NFC Loop Ant)

 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

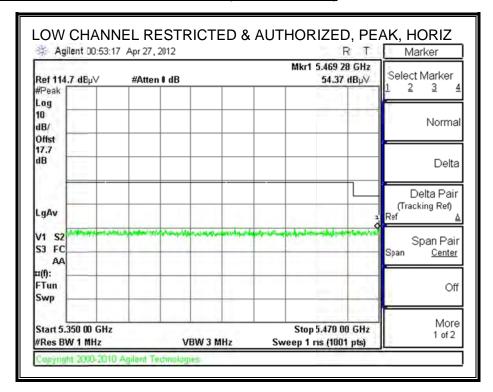
 CL
 Cable Loss
 HPF
 High Pass Filter

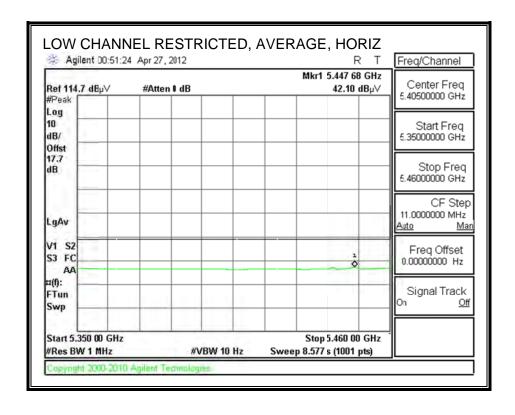
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr	Fltr dB		Limit dBuVm		Ant. Pol. V/H	Det. P/A/QP	Notes
Low Char	nel - 55	00MHz											
11.000	3.0	34.1	38.4	10.5	-33.6	0.0	0.7	50.2	74.0	-23.8	V	P	
11.000	3.0	25.8	38.4	10.5	-33.6	0.0	0.7	41.8	54.0	-12.2	V	A	
11.000	3.0	35.9	38.4	10.5	-33.6	0.0	0.7	51.9	74.0	-22.1	H	P	
11.000	3.0	29.5	38.4	10.5	-33.6	0.0	0.7	45.5	54.0	-8.5	H	A	
Mid Char	nel - 55	80MHz											
11.160	3.0	36.0	38.5	10.7	-33.4	0.0	0.7	52.5	74.0	-21.5	V	P	
11.160	3.0	28.9	38.5	10.7	-33.4	0.0	0.7	45.5	54.0	-8.5	V	A	
11.160	3.0	37.1	38.5	10.7	-33.4	0.0	0.7	53.7	74.0	-20.3	H	P	
11.160	3.0	30.1	38.5	10.7	-33.4	0.0	0.7	46.6	54.0	-7.4	H	A	
High Cha	nnel - 5	700MHz											***************************************
11.400	3.0	35.3	38.8	11.1	-33.2	0.0	0.7	52.7	74.0	-21.3	V	P	
11.400	3.0	27.0	38.8	11.1	-33.2	0.0	0.7	44.4	54.0	-9.6	V	A	
11.400	3.0	38.5	38.8	11.1	-33.2	0.0	0.7	55.9	74.0	-18.1	Н	P	
11.400	3.0	33.3	38.8	11.1	-33.2	0.0	0.7	50.7	54.0	-3.3	Н	A	

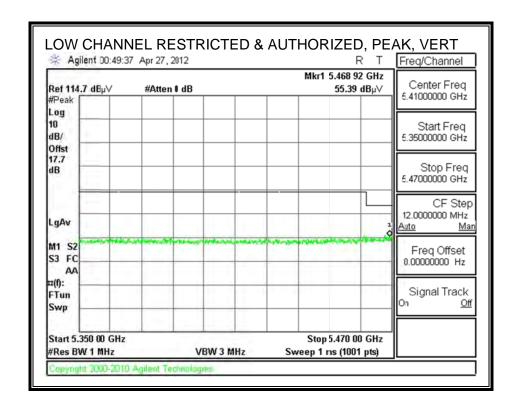
Rev. 4.1.2.7

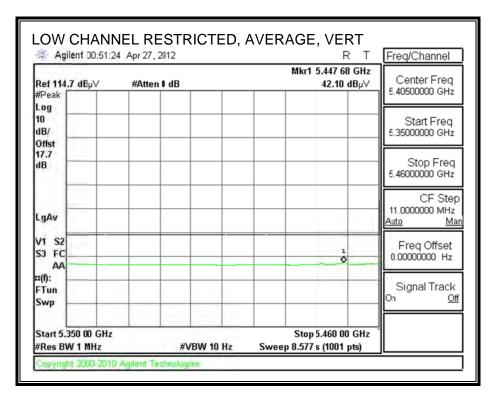
ON INDUCTIVE CHARGER PAD

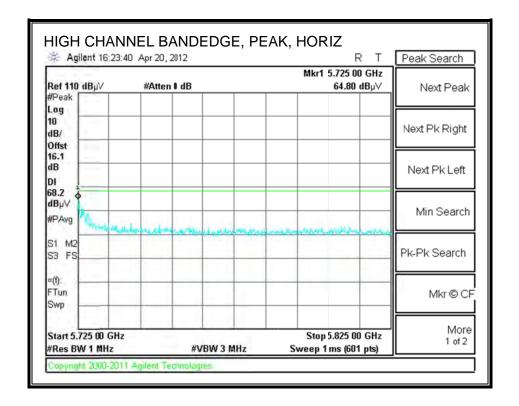
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

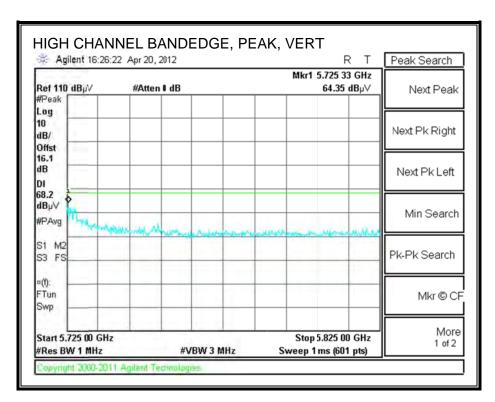












High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang
Date: 04/20/12
Project #: 12U14331
Company: LG
Test Target: FCC 15.407

Configuration: EUT (On Inductive Charging Pad)
Mode Oper: 5.6GHz, a mode, TX (Worst Case)

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

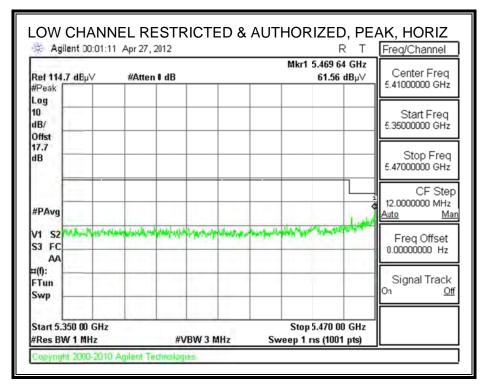
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB		Limit dBuVm		Ant. Pol. V/H	Det. P/A/QP	Notes
Mid Ch, 5	580MH:	z		[[]			130						
11.160	3.0	34.4	38.5	10.3	-35.6	0.0	0.7	48.4	74.0	-25.6	Н	P	
11.160	3.0	24.4	38.5	10.3	-35.6	0.0	0.7	38.3	54.0	-15.7	H	A	
11.160	3.0	34.4	38.5	10.3	-35.6	0.0	0.7	48.4	74.0	-25.6	V	P	
11.160	3.0	25.6	38.5	10.3	-35.6	0.0	0.7	39.6	54.0	-14.4	V	A	

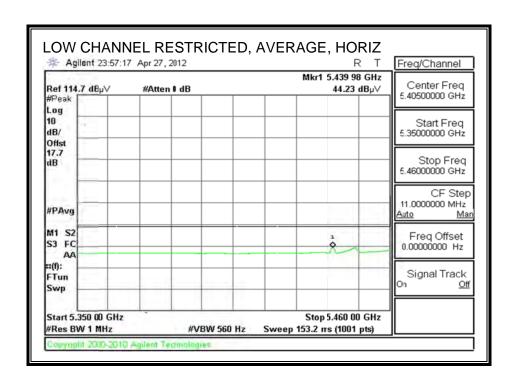
Rev. 4.1.2.7

8.2.6. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND

STANDARD COVER

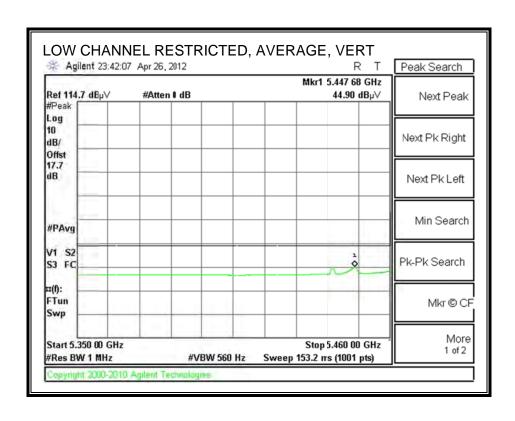
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)





DATE: MAY 8, 2012

VBW 3 MHz



Swp

Start 5.350 0 GHz

opyright 2000-2010 Agilent Technologi

#Res BW 1 MHz

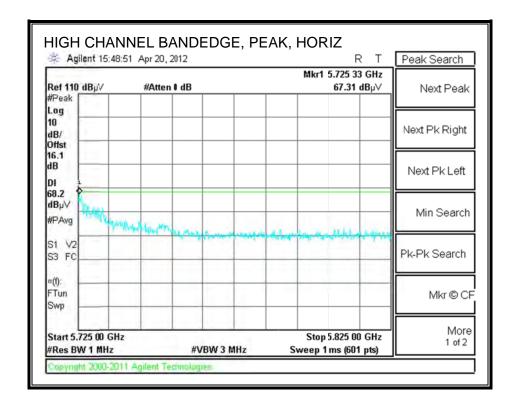
DATE: MAY 8, 2012

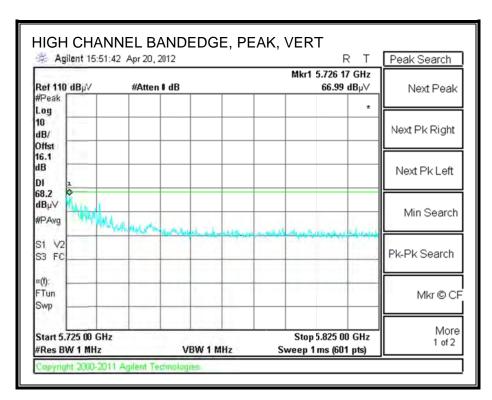
More

1 of 2

Stop 5.470 0 GHz

Sweep 1 ms (1001 pts)





High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

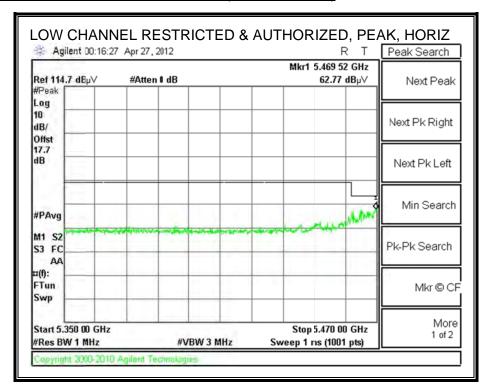
Mode Oper: 5.5GHz band, HT20 mode, TX
Configuration: EUT(Standard Cover) and AC adadpter

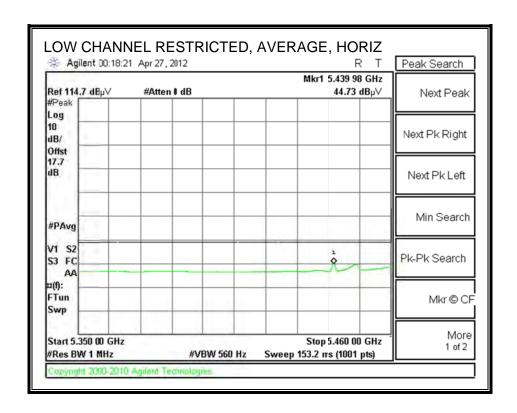
f Measurement Frequency Amp Preamp Gain Average Field Strength Limit
Dist Distance to Antenna D Corr Distance Correct to 3 meters
Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
AF Antenna Factor Peak Calculated Peak Field Strength Margin vs. Peak Limit
CL Cable Loss HPF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

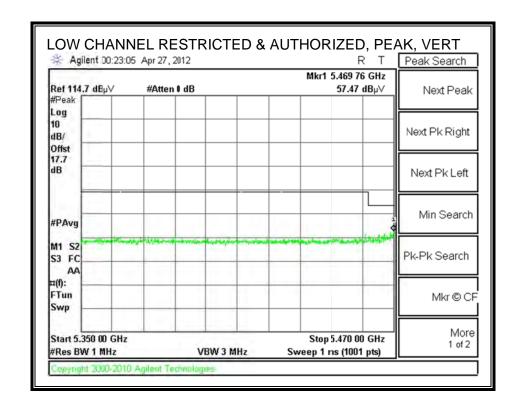
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr			Limit dBuVm	1	Ant. Pol. V/H	Det. P/A/QP	Notes
Low Ch. 5	500MH	z											
11.000	3.0	34.8	38.4	10.2	-35.6	0.0	0.7	48.5	74.0	-25.5	V	P	
11.000	3.0	25.0	38.4	10.2	-35.6	0.0	0.7	38.7	54.0	-15.3	V	A	
11.000	3.0	38.3	38.4	10.2	-35.6	0.0	0.7	51.9	74.0	-22.1	H	P	
11.000	3.0	31.8	38.4	10.2	-35.6	0.0	0.7	45.4	54.0	-8.6	H	A	
Mid Ch, 5	580MH:	Z											
11.160	3.0	34.4	38.5	10.3	-35.6	0.0	0.7	48.4	74.0	-25.6	V	P	
11.160	3.0	23.9	38.5	10.3	-35.6	0.0	0.7	37.8	54.0	-16.2	V	A	
11.160	3.0	36.5	38.5	10.3	-35.6	0.0	0.7	50.4	74.0	-23.6	H	P	
11,160	3.0	29.2	38.5	10.3	-35.6	0.0	0.7	43.1	54.0	-10.9	H	A	
High Ch,	5700MI	Íz				1		1		1			
11.400	3.0	34.9	38.7	10.6	-35.6	0.0	0.7	49.4	74.0	-24.6	v	P	
11.400	3.0	25.5	38.7	10.6	-35.6	0.0	0.7	40.0	54.0	-14.0	V	A	
11.400	3.0	35.7	38.7	10.6	-35.6	0.0	0.7	50.2	74.0	-23.8	H	P	
11.400	3.0	26.2	38.7	10.6	-35.6	0.0	0.7	40.7	54.0	-13.3	H	A	

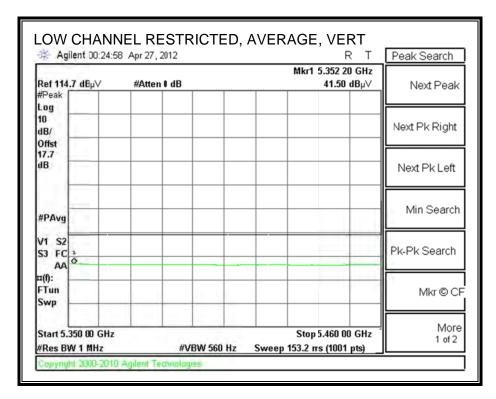
Rev. 4.1.2.7

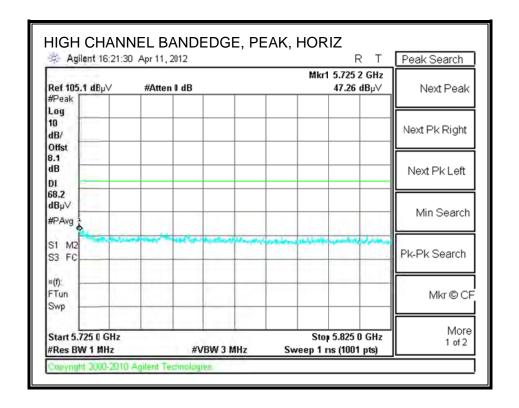
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

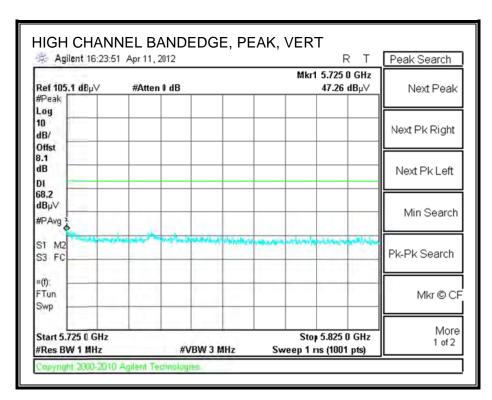












High Frequency Measurement

Compliance Certification Services, Fremont 5m A Chamber

 Test Engr:
 Dennis Huang

 Date:
 04/12/12

 Project #:
 12U14331

 Company:
 LG

 Test Target:
 FCC 15.205

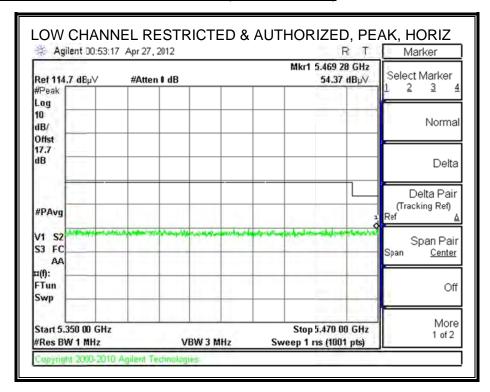
Mode Oper: 802.11n HT20 Tx Mode (Inducting Case with NFC Loop Ant)

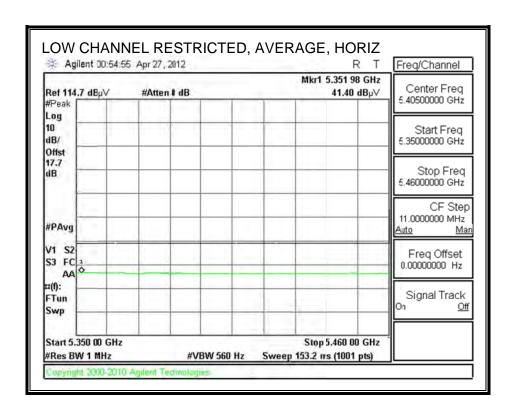
f Measurement Frequency Amp Preamp Gain Average Field Strength Limit
Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit
Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
AF Antenna Factor Peak Calculated Peak Field Strength Margin vs.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

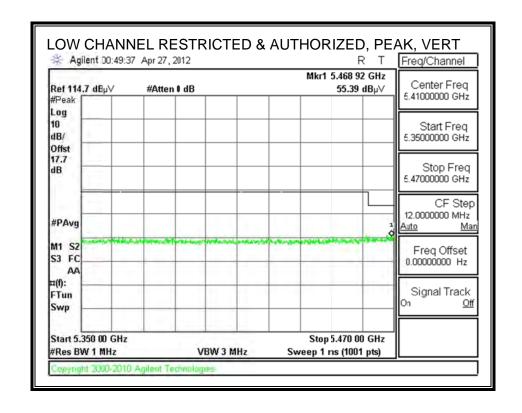
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp	D Corr dB	Fltr dB		Limit dBuVm		Ant. Pol. V/H	Det. P/A/QP	Notes
Low Char	nel - 55	00MHz											
11.000	3.0	38.0	38.4	10.2	-35.6	0.0	0.7	51.7	74.0	-22.3	V	P	
11.000	3.0	30.3	38.4	10.2	-35.6	0.0	0.7	44.0	54.0	-10.0	V	A	
11.000	3.0	39.5	38.4	10.2	-35.6	0.0	0.7	53.1	74.0	-20.9	H	P	
11.000	3.0	33.1	38.4	10.2	-35.6	0.0	0.7	46.7	54.0	-7.3	H	A	
Mid Chan	nel - 55	80MHz						ļ	***************************************				
11.160	3.0	39.2	38.5	10.3	-35.6	0.0	0.7	53.2	74.0	-20.8	V	P	
11.160	3.0	31.4	38.5	10.3	-35.6	0.0	0.7	45.4	54.0	-8.6	V	A	
11.160	3.0	38.4	38.5	10.3	-35.6	0.0	0.7	52.4	74.0	-21.6	H	P	
11.160	3.0	31.4	38.5	10.3	-35.6	0.0	0.7	45.4	54.0	-8.6	H	A	
High Cha	nnel - 5	700MHz											
11.400	3.0	38.8	38.7	10.6	-35.6	0.0	0.7	53.3	74.0	-20.7	V	P	
11.400	3.0	30.9	38.7	10.6	-35.6	0.0	0.7	45.4	54.0	-8.6	V	A	
11.400	3.0	38.1	38.7	10.6	-35.6	0.0	0.7	52.6	74.0	-21.4	H	P	
11.400	3.0	31.9	38.7	10.6	-35.6	0.0	0.7	46.4	54.0	-7.6	H	A	

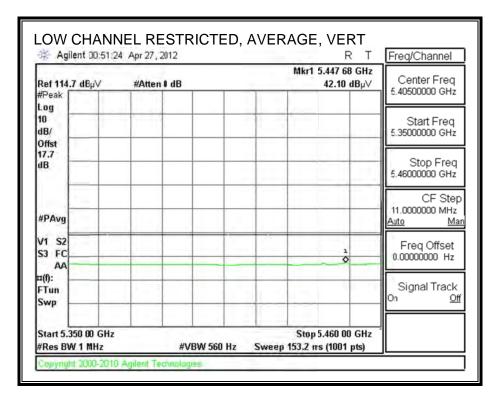
Rev. 4.1.2.7

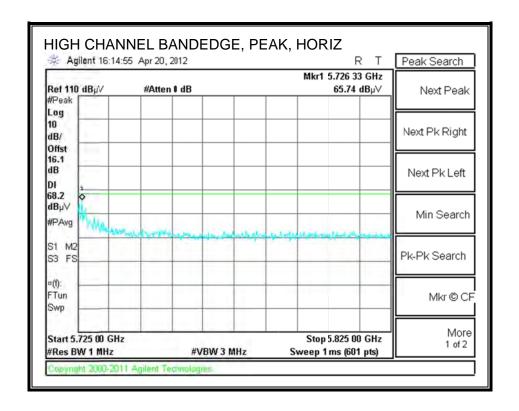
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

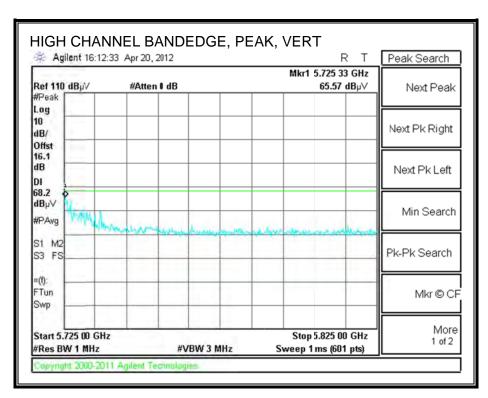












High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang Date: 04/20/12 12U14331 Project #: Company: LG Test Target: FCC 15.407

Configuration: EUT (On Inductive Charging Pad) Mode Oper: 5.6GHz, HT20, TX (Worst Case)

> 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 CHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB		Limit dBuVm	-	Ant. Pol. V/H	Det. P/A/QP	Notes
Mid Ch, 5	580MH:	z											
11.160	3.0	34.0	38.5	10.3	-35.6	0.0	0.7	48.0	74.0	-26.0	V	P	
11.160	3.0	23.2	38.5	10.3	-35.6	0.0	0.7	37.2	54.0	-16.8	V	A	
11.160	3.0	34.7	38.5	10.3	-35.6	0.0	0.7	48.7	74.0	-25.3	Н	P	***************************************
11.160	3.0	23.3	38.5	10.3	-35.6	0.0	0.7	37.2	54.0	-16.8	H	A	
			1										

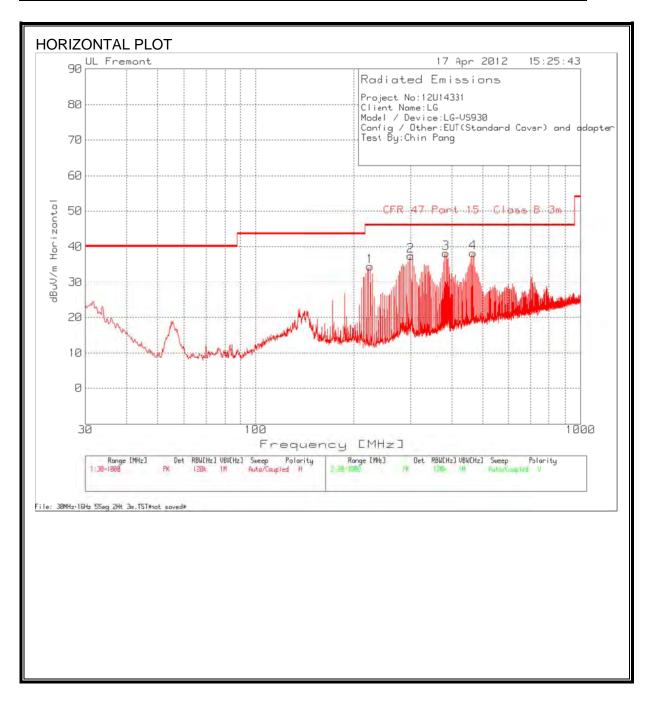
Note: No other emissions were detected above the system noise floor.

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8.3. **WORST-CASE BELOW 1 GHz**

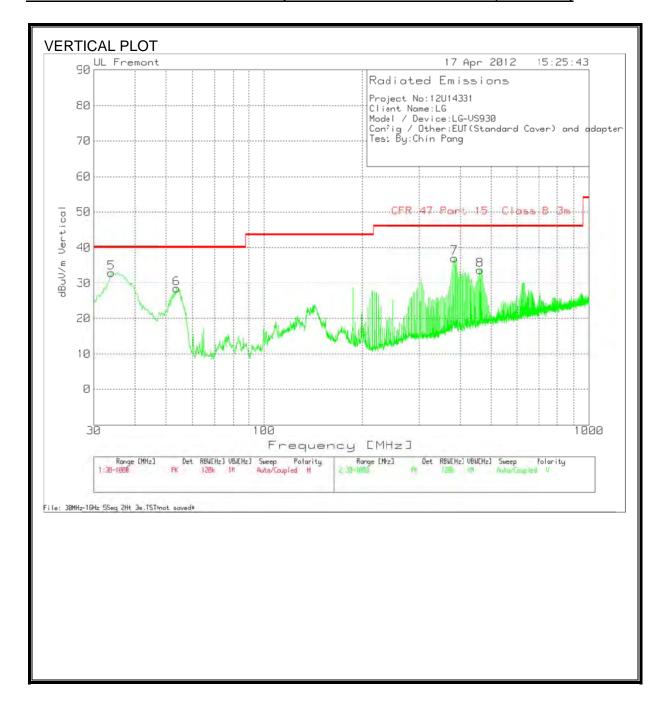
STANDARD COVER

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



DATE: MAY 8, 2012

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



DATE: MAY 8, 2012

FCC: ZNFVS930

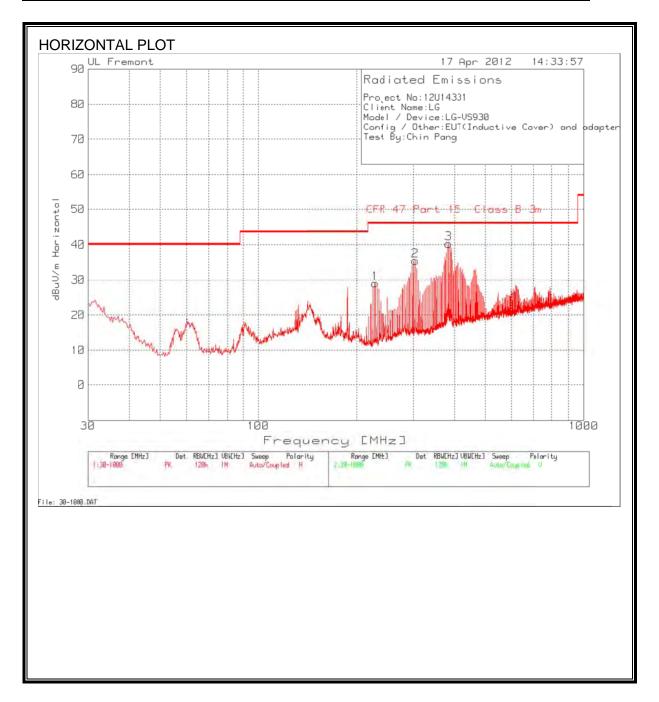
73 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0
This report shall not be reproduced except in full, without the written approval of UL CCS.

Project No:12L Client Name:U									
Model / Device:LG-VS930									
Config / Other		(Count) and a	dantar						
Test By:Chin P		(Cover) and a	uaptei						
rest by control	ang								
Range 1 30 - 10	00MHz								
Test Frequency	Meter Reading	Detector	25MH:-1GHz ChmbrA Amplified.TX [dB]	T243 Sunol Bilog.TXT [dB]	dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
223.8449	49.94	PK	-26	10.6	34.54	46	-11.46	100	Horz
300.8014	50.08	PK	-25.8	13.2	37.4\$	46	-8.52	100	Horz
383.9608	48.56	PK	-25.3	15	38.26	46	-7.74	100	Horz
467.3141	46.31	PK	-25.1	17.1	38.31	46	-7.69	200	Horz
Range 2 30 - 10	00MHz								
Test Frequency	Meter Reading	Detector	25MH:-1GHz ChmbrA Amplified.TX [dB]	T243 Sunol Bilog.TXT [dB]	dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
33.8769	42.17	PK	-27.6	18.4	32.97	40	-7.03	109	Vert
53.8429	48.43	PK	-27.3	7.3	28.43	40	-11.57	109	Vert
383.9608	47.45	PK	-25.3	15	37.15	46	-8.85	109	Vert
464.0188	41.9	PK	-25	16.9	33.8	46	-12.2	109	Vert

DATE: MAY 8, 2012

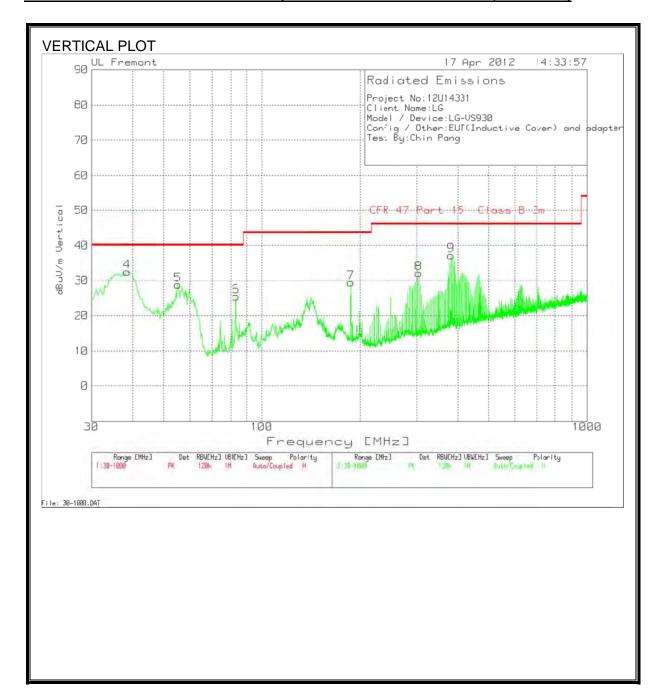
INDUCTIVE COVER

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



DATE: MAY 8, 2012

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

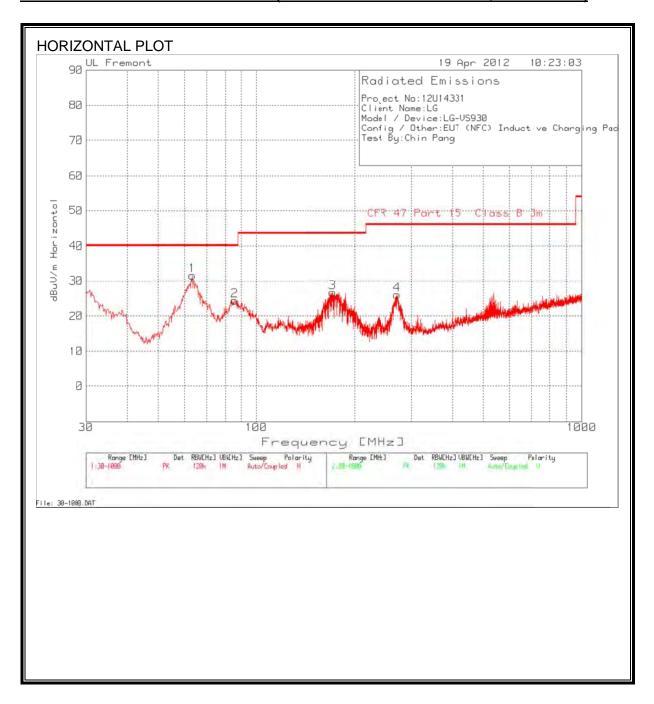


DATE: MAY 8, 2012

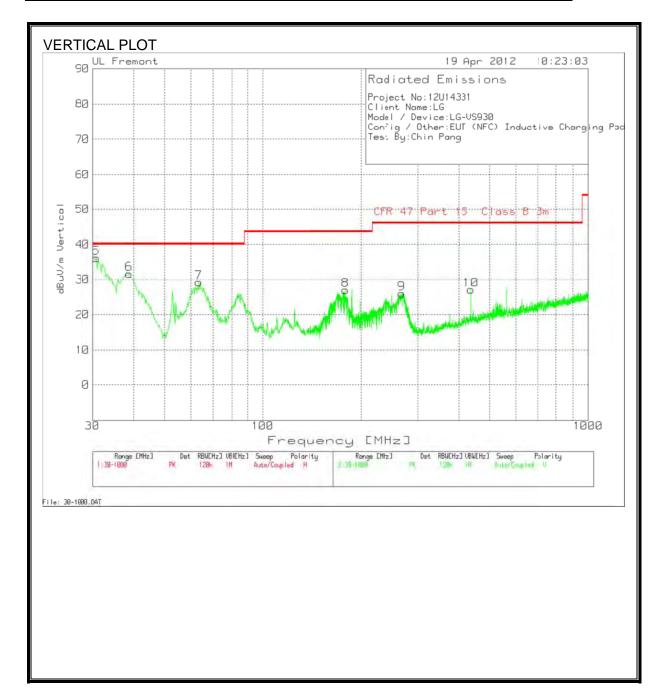
Project No:12L	11.4221								
Client Name:L									
Model / Device									
Config / Other		e Coverl and a	danter						
Test By:Chin P		L covery and a	oupter						
Range 1 30 - 10	000MHz								
Test Frequency	Meter Reading	Detector	25MH:-1GHz ChmbrA Amplified.TX [d8]	T243 Sunol Bilog.TXT [dB]	dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
227.3341	44.48	PK	-26.1	10.7	29.08	46	-16.92	91	Horz
303.9029	48.06	PK	-25.8	13.3	35.56	46	-10.44	91	Horz
383.9608	50.54	PK	-25.3	15	40.24	46	-5.76	91	Horz
Range 2 30 - 10	000MHz								
Test Frequency	Meter Reading	Detector	25MH:-1GHz ChmbrA Amplified.TX [dB]	T243 Sunol Bilog.TXT [dB]	dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
38.5292	44.9	PK	-27.4	15	32.5	40	-7.5	100	Vert
55.1993	49	PK	-27.3	7.1	28.8	40	-11.2	200	Vert
83.5012	45	PK	-27	7.4	25.4	40	-14.6	200	Vert
187.4021	44.43	PK	-26.3	11.3	29.43	43.5	-14.07	200	Vert
303.9029	44.58	PK	-25.8	13.3	32.0	46	-13.92	100	Vert
380.6655	47.37	PK	-25.3	15.1	37.17	46	-8.83	100	Vert

DATE: MAY 8, 2012

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



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



DATE: MAY 8, 2012

HORIZONTAL AND VERTICAL DATA Project No:12U14331 Client Name:LG Model / Device:LG-VS930 Config / Other: EUT (NFC) Inductive Charging Pad Test By:Chin Pang Range 1 30 - 1000MHz 25MH2-1GHz ChmbrA T243 Sunol CFR 47 Part Meter Test Detector dBuV/m Margin Height [cm] Polarity Frequency Reading Amplified.TX [dB] Bilog.TXT [dB] 15 Class B 3m 63.3413 PK 31.63 -8.37 300 51.23 -27.2 7.6 40 Horz 86.0212 44.01 PK -27 7.4 24.41 40 -15.59 200 Horz 171.313 41.58 PK -26.5 11.6 26.68 43.5 -16.82200 Horz 271.7246 38.76 PK -25.8 13.1 26.06 46 -19.94 100 Horz Range 2 30 - 1000MHz 25MH2-1GHz ChmbrA T243 Sunol CFR 47 Part Test Meter Detector dBuV/m Margin Height [cm] Polarity Frequency Reading Amplified.TX [dB] Bilog.TXT [dB] 15 Class B 3m 30.7754 PK -27.5 36.19 -3.81 100 43.09 20.6 40 Vert 30.7754 41.41 QP -27.5 21.1 35.01 40 -4.99 242 Vert 38.723 44.18 PK -27.4 14.9 31.68 40 -8.32 100 Vert 63.3413 48.79 PK -27.2 7.6 29.19 40 -10.81 300 Vert 179.0667 42.13 PK -26.4 11.2 26.93 43.5 -16.57 100 Vert 268.0416 38.8 PK -25.8 12.9 25.9 46 -20.1 100 Vert 437.6559 -25.3 16.7 27.03 -18.97 Vert

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