EMC TEST REPORT

Test item	: LED TV Monitor
Model No.	: 55LA6200-UA
Order No.	: 1211-02699
Date of receipt	: 2012-11-28
Test duration	: 2012-12-06
Use of report	: FCC CoC Marking
Date of Issue	: 2012-12-10

Applicant : LG Electronics Inc.
19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea

Test laboratory : Digital EMC Co., Ltd.
683-3, Yubang-Dong, Cheoin-Gu, Yongin-Si, Gyeonggi-Do, 449-080, Korea

Test specification : ANSI C 63.4:2003
FCC Part 15 Subpart B
(Type of Device : Class B Personal Computers and Peripherals (JBP))

Test environment : Temperature : (16 ~ 18) °C,
Humidity : (42 ~ 47) % R.H.

Test result : ☒ Comply ☐ Not Comply

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose.
This test report shall not be reproduced except in full, without the written approval of DIGITAL EMC CO., LTD.

Tested by:

Engineer
KyungMin Jeong

Reviewed by:

General Manager
ChangHo Lee

PRESIDENT OF DIGITAL EMC CO., LTD.

CONTENTS

1. General Remarks

This report contains the result of tests performed by:

DIGITAL EMC CO., LTD.

Address : 683-3, Yubang-Dong, Cheoin-Gu, Yongin-Si, Gyeonggi-Do, 449-080, Korea

http://www.digitalemc.com

Tel: +82-31-321-2664 Fax: +82-31-321-1664

2. Test Laboratory

Digital EMC Co., Ltd. has been accredited / filed / authorized by the agencies listed in the following table;

Certificate	Nation	Agency	Code	Mark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
Site Filing	USA	FCC	101842 678747	Test Facility list & NSA Data
	Canada	IC	5740A-1 5740A-2	Test Facility list & NSA Data
	Japan	VCCI	C-1427 R-1364, R-3385 T-1442, G-338	Test Facility list & NSA Data
Certification	Korea	KC	KR0034	Test Facility list & NSA Data
	Germany	TUV	ROK1124C	ISO/IEC 17025

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the “General requirements for the competent of calibration and testing laboratory”.

3. General Information of EUT

Model No.	55LA6200-UA
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ55LA6200UA
Type of Sample Tested	Pre-Production
High Frequency	Max 800 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.6 A
Supplied Power for Test	AC 120 V, 60 Hz
Applicant	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea
Manufacturer	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea

HDMI (PC) supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640 x 350	31.468	70.09
720 x 400	31.469	70.08
640 x 480	31.469	59.94
800 x 600	37.879	60.31
1024 x 768	48.363	60.00
1360 x 768	47.712	60.015
1152 x 864	54.348	60.053
1280 x 1024	63.981	60.02
1920 x 1080	67.50	60.00

4. Test Summary

4.1 Applied standards and test results

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4:2003	**C**
Radiated Disturbance	ANSI C63.4:2003	**C**
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

The data in this test report are traceable to the national or international standards.

4.2 Test environment and conditions

Test Items	Test date (MM-DD)	Temp (℃)	Humidity (% R.H.)
Conducted Disturbance	12-06	16	47
Radiated Disturbance	12-06	18	42

4.3 Test result Summary

(1) Conducted Emission (USB MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.15025	**L1**	**58.9**	Quasi-Peak	**66.0**	**7.1**

(2) Radiated Emission (HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
64.791	**H**	**35.7**	Quasi-Peak	**40.0**	**4.3**

5. Test Set-up and operation mode

5.1 Principle of Configuration Selection

Emission : The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

5.2 Test Operation Mode

- HDMI MODE – Resolution : 1920x1080 Resolution (Worst Case)
- USB MODE

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	VOSTRO220	G3RZKBX	DELL INC	Power HDMI USB USB USB LAN STEREO	1.8 1.8 1.8 1.8 1.5 1.6 1.5	Not use Not use Not use Not use Not use Not use Not use	Non-shield Shield Shield Shield Shield Non-shield Non-shield	Plastic	DOC
KEYBOARD	SKG-3000UB	TAKSB601236L	MONITEREY INTERNATIONAL CORP	USB	1.8	Not use	Shield	Plastic	DOC
MOUSE	1484	352700021373	MICROSOFT CORPORATION	USB	1.8	Not use	Shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2001499	SONY EMCS	POWER COMPONENT	1.8 1.6	Not use Not use	Non-shield Non-shield	Plastic	VER
USB MEMORY	Sandisk Cruzer Z37 4G	N/A	SANDISK	USB	-	-	-	-	DOC
PRINTER	SRP-770	SRP77008060035	BIXOLON	USB Power	1.6 1.5	Not use Not use	Shield Non-shield	Plastic	DOC
HEADSET	COV903	N/A	COSY	STEREO	1.5	Not use	Non-shield	Plastic	DOC

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15 MHz to 30 MHz, the conducted disturbance was measured and set-up was made accordance with **ANSI C63.4.**

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Connect the EUT's power source lines to the appropriate power mains / peripherals through the LISN. All the other peripherals are connected to the 2nd LISN, if any.

Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.

The measuring port of the LISN for EUT was connected to spectrum analyzer.

Using conducted emission test software, the emissions were scanned with peak detector mode.

After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and Average detector.

By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

For further description of the configuration refer to the picture of the test set-up.

6.1.2 Limit for Conducted Disturbance

(1) Conducted disturbance at mains ports.

Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 to 56	66	56 to 46
0.50 to 5	73	56	60	46
5 to 30		60		50
Note 1 The lower limit shall apply at the transition frequencies. Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Note) 1. Emission Level = Reading Value + Correction Factor.
2. Correction Factor = Cable Loss + Insertion Loss of LISN
3. Margin = Limit - Emission level

Test Result

< HDMI MODE >

Digital EMC

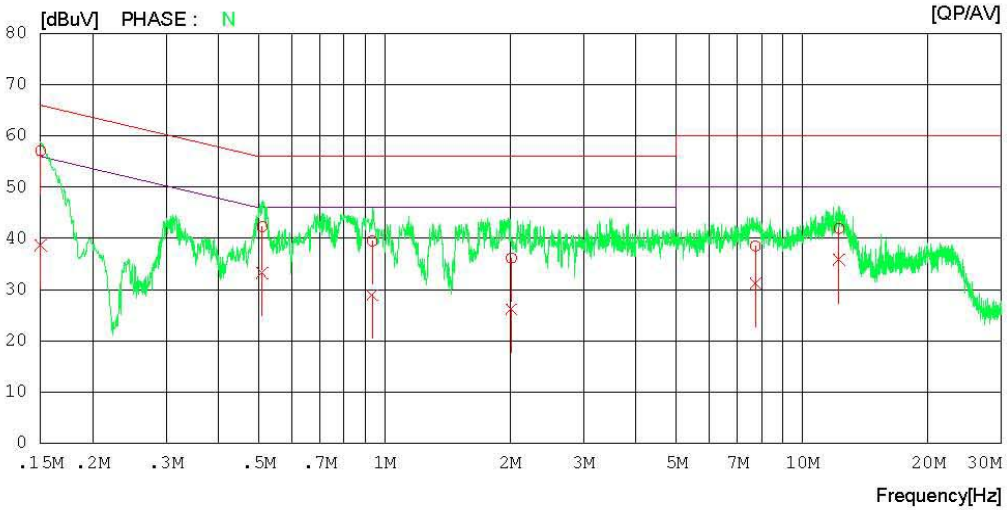
Results of Conducted Emission

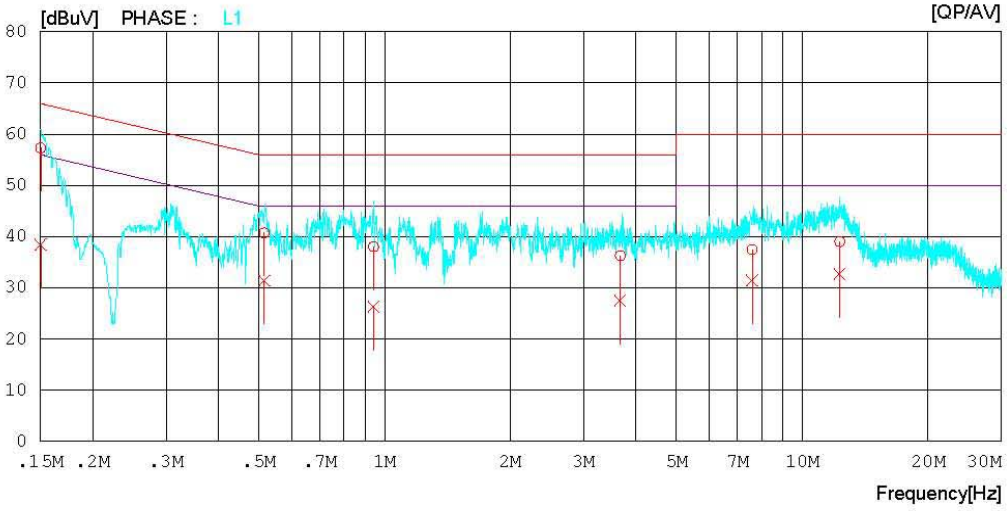
Digital EMC
Date : 2012-12-06

Model No.	:	55LA6200-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	16 'C 47 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





Results of Conducted Emission

Digital EMC
Date : 2012-12-06

Model No.	:	55LA6200-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	16 'C 47 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ	READING QP	READING AV	C.FACTOR	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15018	56.9	38.4	0.2	57.1	38.6	66.0	56.0	8.9	17.4	N
2	0.50954	42.1	33.0	0.2	42.3	33.2	56.0	46.0	13.7	12.8	N
3	0.93550	39.3	28.7	0.2	39.5	28.9	56.0	46.0	16.5	17.1	N
4	2.01350	35.8	25.8	0.3	36.1	26.1	56.0	46.0	19.9	19.9	N
5	7.73050	38.0	30.7	0.5	38.5	31.2	60.0	50.0	21.5	18.8	N
6	12.25000	41.2	35.1	0.7	41.9	35.8	60.0	50.0	18.1	14.2	N
7	0.15025	57.1	38.3	0.2	57.3	38.5	66.0	56.0	8.7	17.5	L1
8	0.51561	40.5	31.2	0.2	40.7	31.4	56.0	46.0	15.3	14.6	L1
9	0.94146	37.8	26.1	0.2	38.0	26.3	56.0	46.0	18.0	19.7	L1
10	3.66800	36.0	27.2	0.3	36.3	27.5	56.0	46.0	19.7	18.5	L1
11	7.59300	37.0	30.9	0.5	37.5	31.4	60.0	50.0	22.5	18.6	L1
12	12.30450	38.3	32.0	0.7	39.0	32.7	60.0	50.0	21.0	17.3	L1

< USB MODE >

Digital EMC

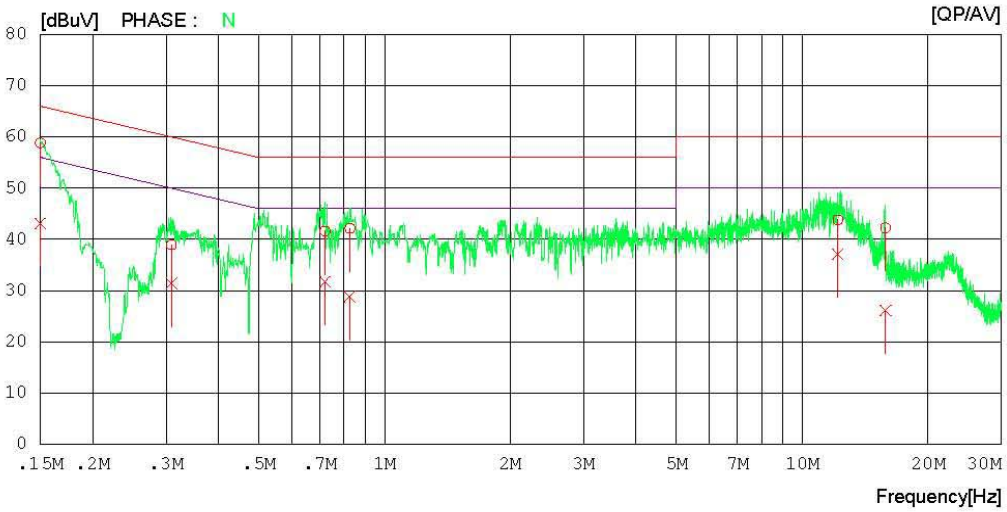
Results of Conducted Emission

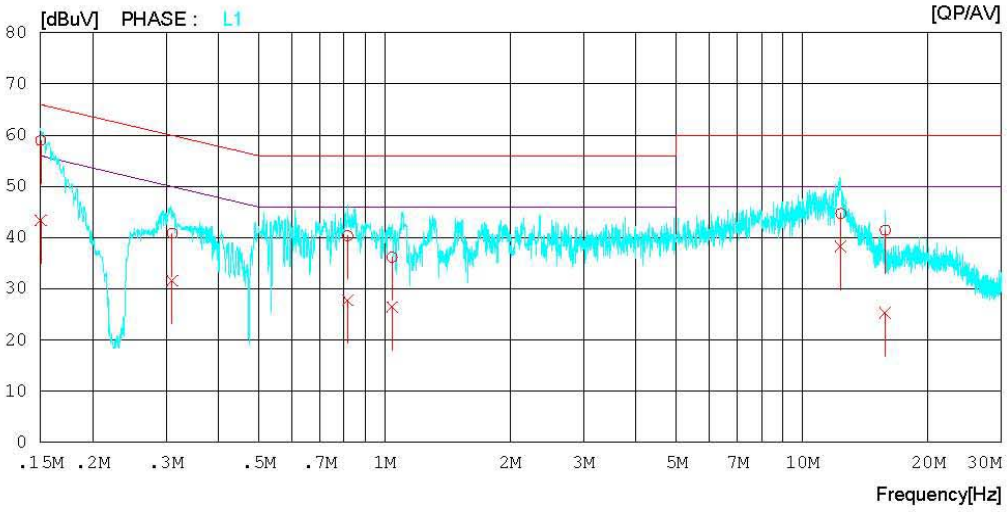
Digital EMC
Date : 2012-12-06

Model No.	:	55LA6200-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	16 'C 47 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





Results of Conducted Emission

Digital EMC
Date : 2012-12-06

Model No.	:	55LA6200-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	16 'C 47 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ	READING QP	READING AV	C.FACTOR	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15000	58.6	42.9	0.2	58.8	43.1	66.0	56.0	7.2	12.9	N
2	0.30910	38.7	31.2	0.2	38.9	31.4	60.0	50.0	21.1	18.6	N
3	0.72089	41.4	31.5	0.2	41.6	31.7	56.0	46.0	14.4	14.3	N
4	0.82703	41.9	28.6	0.2	42.1	28.8	56.0	46.0	13.9	17.2	N
5	12.17000	43.1	36.4	0.7	43.8	37.1	60.0	50.0	16.2	12.9	N
6	15.82100	41.4	25.3	0.8	42.2	26.1	60.0	50.0	17.8	23.9	N
7	0.15025	58.7	43.2	0.2	58.9	43.4	66.0	56.0	7.1	12.6	L1
8	0.31021	40.7	31.5	0.2	40.9	31.7	60.0	50.0	19.1	18.3	L1
9	0.81655	40.2	27.6	0.2	40.4	27.8	56.0	46.0	15.6	18.2	L1
10	1.04300	35.9	26.2	0.3	36.2	26.5	56.0	46.0	19.8	19.5	L1
11	12.37250	44.0	37.5	0.7	44.7	38.2	60.0	50.0	15.3	11.8	L1
12	15.80850	40.6	24.5	0.8	41.4	25.3	60.0	50.0	18.6	24.7	L1

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

The radiated disturbance was measured and set-up was made accordance with **ANSI C63.4.**
If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber.**
Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.
Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.
The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.
For below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.
Also Peak and Average detector with 1 MHz RBW were used for above 1 GHz frequency range.
For further description of the configuration refer to the picture of the test set-up.

6.2.2 Limit for Radiated Disturbance

- The test frequency range of Radiated Disturbance measurements are listed below.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54
Note 1 The lower limit shall apply at the transition frequency. Note 2 Additional provisions may be required for cases where interference occurs. Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.		
Frequency range (MHz)	**Class A Equipment (10 m distance)**	**Class B Equipment (10 m distance)**
	Quasi-peak (dBμV/m)	**Quasi-peak (dBμV/m)**
30 to 230	40	30
230 to 1 000	47	37

(2) Limits for Radiated Emission above 1 000MHz at a measuring distance of 3 m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54

Note) 1. Emission Level = Reading Value + Correction Factor.
2. Correction Factor = Cable loss - Amp gain + Antenna Factor
3. Margin = Limit - Emission level

Test Result

< HDMI MODE_30 MHz ~ 1 GHz >

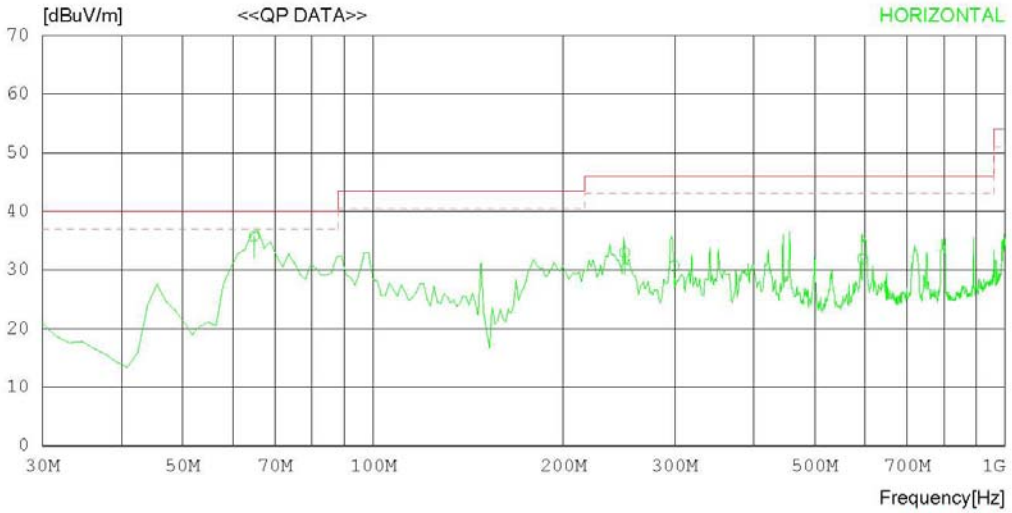
RADIATED EMISSION

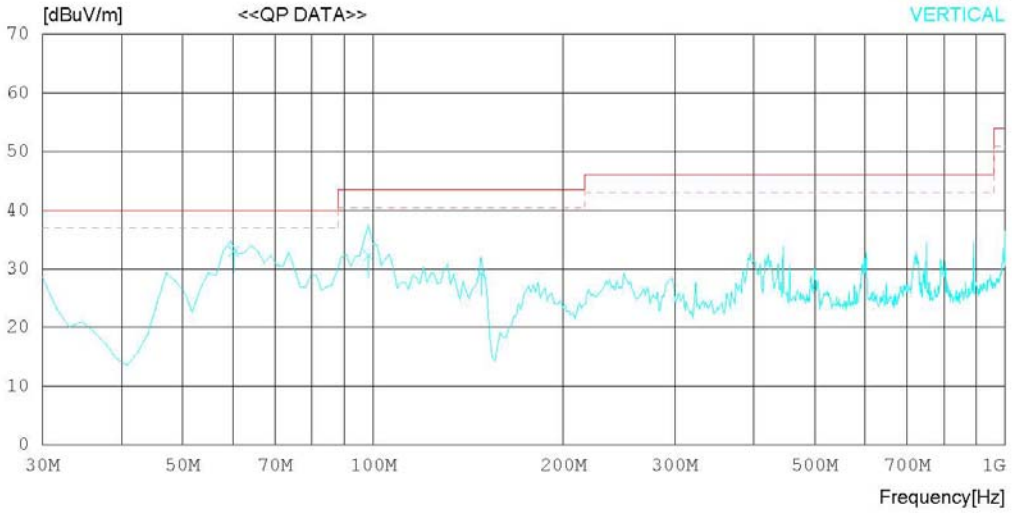
Date : 2012-12-06

Model Name	:	55LA6200-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	18 'C 42 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB





RADIATED EMISSION

Date : 2012-12-06

Model Name	:	55LA6200-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	18 'C 42 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	64.791	50.3	6.5	1.6	22.7	35.7	40.0	4.3	301	158
2	250.011	41.7	12.3	2.6	23.6	33.0	46.0	13.0	100	208
3	299.433	38.7	13.1	2.8	23.9	30.7	46.0	15.3	100	336
4	594.915	33.9	18.6	4.1	24.7	31.9	46.0	14.1	100	197
----- Vertical ------										
5	60.227	47.9	6.4	1.4	22.7	33.0	40.0	7.0	100	333
6	98.432	43.1	10.6	1.4	22.8	32.3	43.5	11.2	100	260
7	148.352	39.9	10.7	1.7	23.1	29.2	43.5	14.3	100	29

< HDMI MODE _ (1 ~ 6) GHz _ Peak >

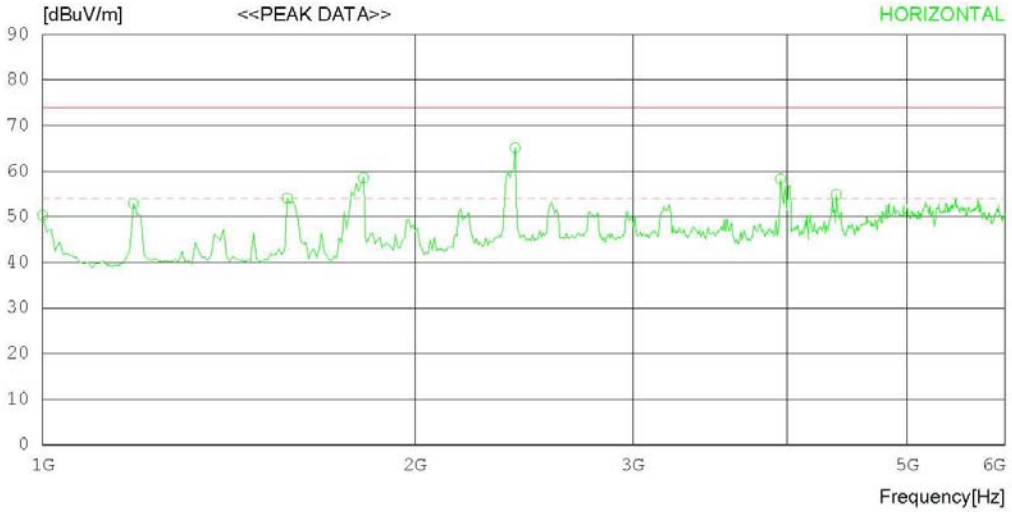
RADIATED EMISSION

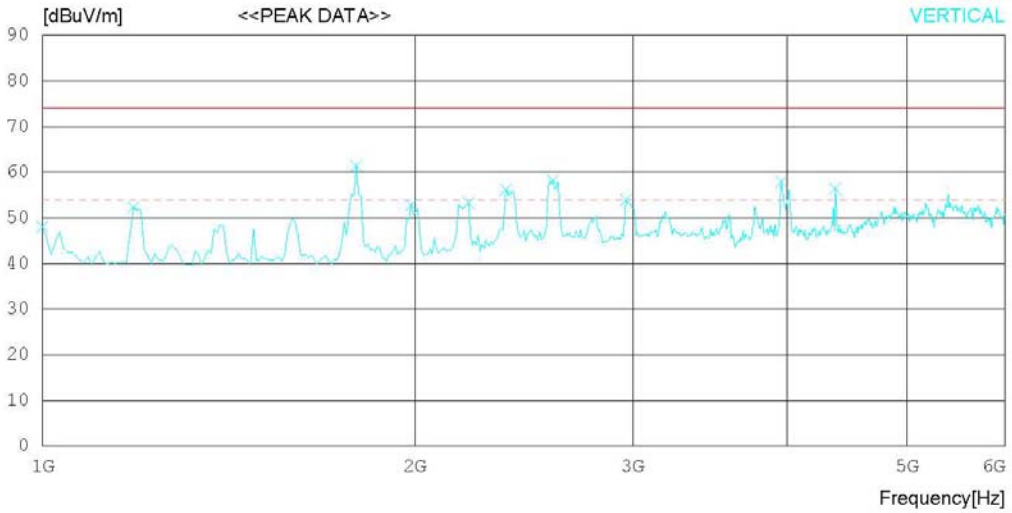
Date : 2012-12-06

Model Name	: 55LA6200-UA		Reference No.	:	
Model No.	:		Power Supply	: 120 V	60 Hz
Serial No.	:		Temp/Humi	: 18 'C	42 % R.H.
Test Condition	: HDMI		Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)





RADIATED EMISSION

Date : 2012-12-06

Model Name	:	55LA6200-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	18 'C 42 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	1000.000	62.5	23.9	5.7	41.8	50.3	74.0	23.7	100	170
2	1184.295	64.2	24.2	6.4	41.9	52.9	74.0	21.1	100	235
3	1576.923	63.5	24.6	7.6	41.6	54.1	74.0	19.9	100	244
4	1817.307	67.6	24.6	8.1	41.8	58.5	74.0	15.5	100	35
5	2410.261	70.8	26.9	9.3	41.9	65.1	74.0	8.9	100	358
6	3948.746	57.5	30.0	12.8	42.0	58.3	74.0	15.7	100	202
7	4381.436	53.0	30.7	13.3	42.1	54.9	74.0	19.1	100	169
----- Vertical ------										
8	1000.000	60.3	23.9	5.7	41.8	48.1	74.0	25.9	100	182
9	1184.295	63.6	24.2	6.4	41.9	52.3	74.0	21.7	100	1
10	1793.269	70.5	24.6	8.1	41.8	61.4	74.0	12.6	100	8
11	1985.577	61.5	24.6	8.4	41.7	52.8	74.0	21.2	100	1
12	2209.938	60.3	25.8	8.9	41.7	53.3	74.0	20.7	100	1
13	2370.197	62.1	26.7	9.3	41.9	56.2	74.0	17.8	100	1
14	2586.546	62.7	27.7	9.7	41.9	58.2	74.0	15.8	100	1
15	2963.154	56.4	28.9	10.4	41.8	53.9	74.0	20.1	100	194
16	3956.759	57.1	30.0	12.8	42.0	57.9	74.0	16.1	100	176
17	4373.423	54.5	30.7	13.3	42.1	56.4	74.0	17.6	100	1

< HDMI MODE _ (1 ~ 6) GHz _ Average >

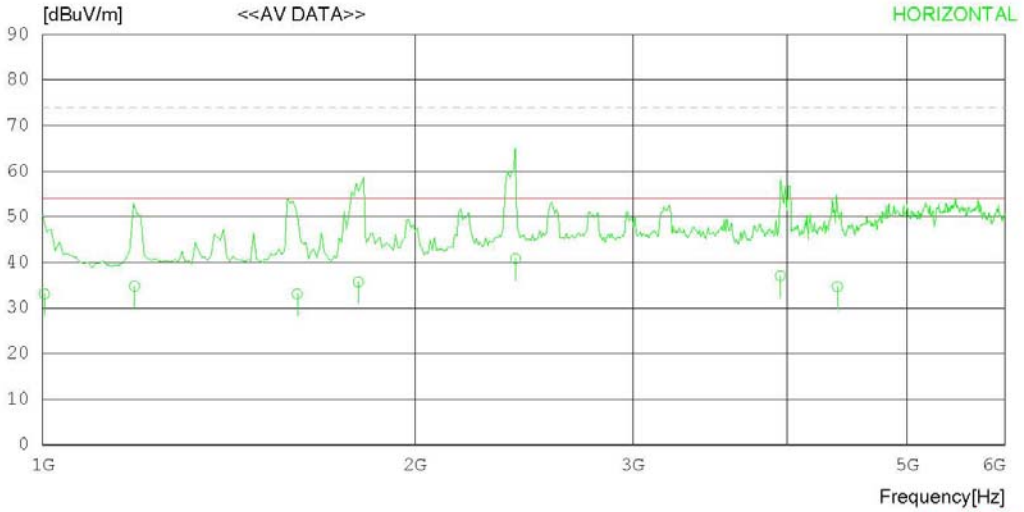
RADIATED EMISSION

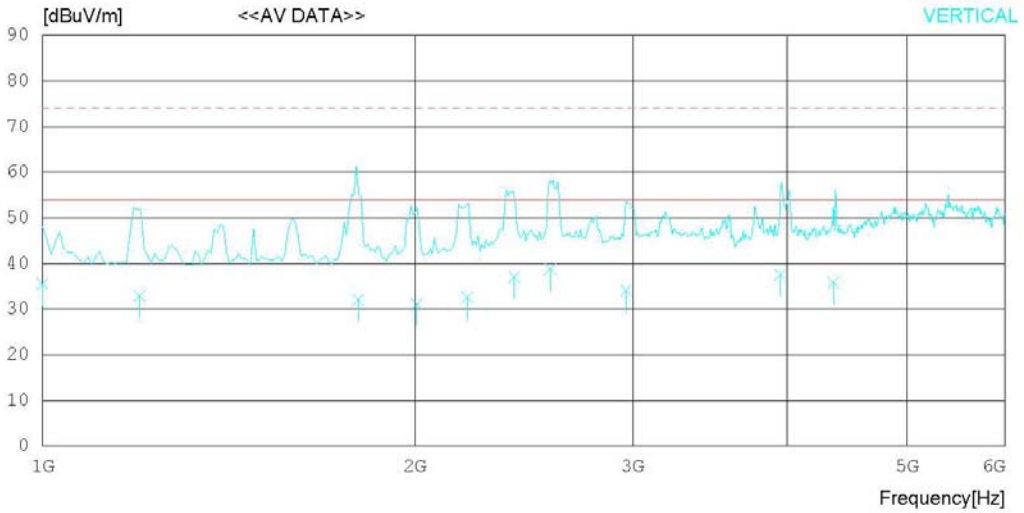
Date : 2012-12-06

Model Name	: 55LA6200-UA		Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	18 'C 42 % R.H.
Test Condition	: HDMI		Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)





RADIATED EMISSION

Date : 2012-12-06

Model Name	:	55LA6200-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	18 'C 42 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	1003.365	45.2	23.9	5.8	41.8	33.1	54.0	20.9	100	170
2	1186.804	46.1	24.2	6.4	41.9	34.8	54.0	19.2	100	235
3	1606.679	42.4	24.6	7.7	41.6	33.1	54.0	20.9	100	244
4	1799.160	44.8	24.6	8.1	41.8	35.7	54.0	18.3	100	35
5	2411.320	46.5	26.9	9.3	41.9	40.8	54.0	13.2	100	338
6	3948.160	36.3	30.0	12.8	42.0	37.1	54.0	16.9	100	202
7	4389.522	32.8	30.7	13.3	42.1	34.7	54.0	19.3	100	169
----- Vertical ------										
8	1000.240	47.7	23.9	5.7	41.8	35.5	54.0	18.5	100	182
9	1197.660	44.2	24.2	6.4	41.9	32.9	54.0	21.1	100	251
10	1799.371	41.1	24.6	8.1	41.8	32.0	54.0	22.0	100	8
11	2007.557	39.7	24.6	8.5	41.7	31.1	54.0	22.9	100	195
12	2205.891	39.7	25.7	8.9	41.7	32.6	54.0	21.4	100	172
13	2405.887	42.8	26.9	9.3	41.9	37.1	54.0	16.9	100	116
14	2574.439	43.3	27.7	9.7	41.9	38.8	54.0	15.2	100	150
15	2963.852	36.6	28.9	10.4	41.8	34.1	54.0	19.9	100	194
16	3948.102	36.8	30.0	12.8	42.0	37.6	54.0	16.4	100	176
17	4358.775	33.9	30.7	13.3	42.1	35.8	54.0	18.2	100	229

< USB MODE_30 MHz ~ 1 GHz >

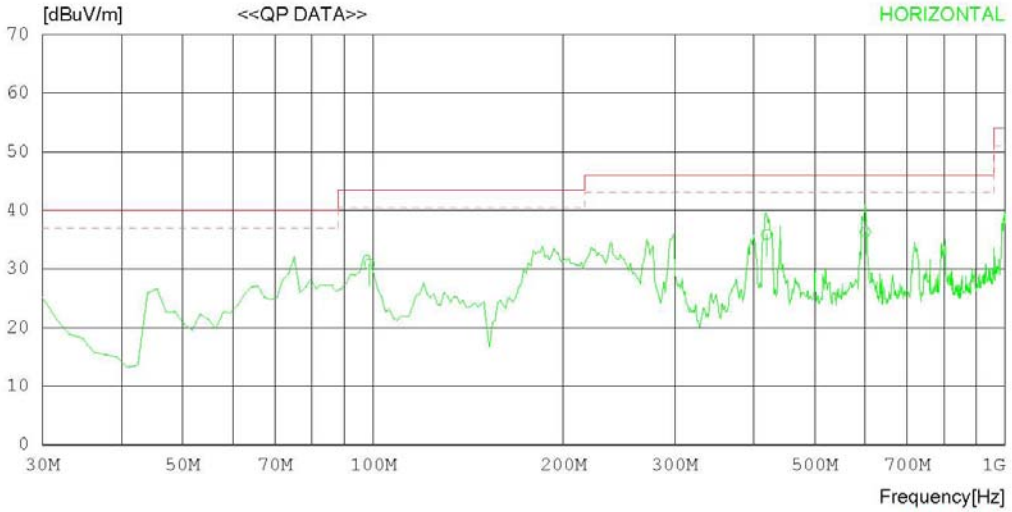
RADIATED EMISSION

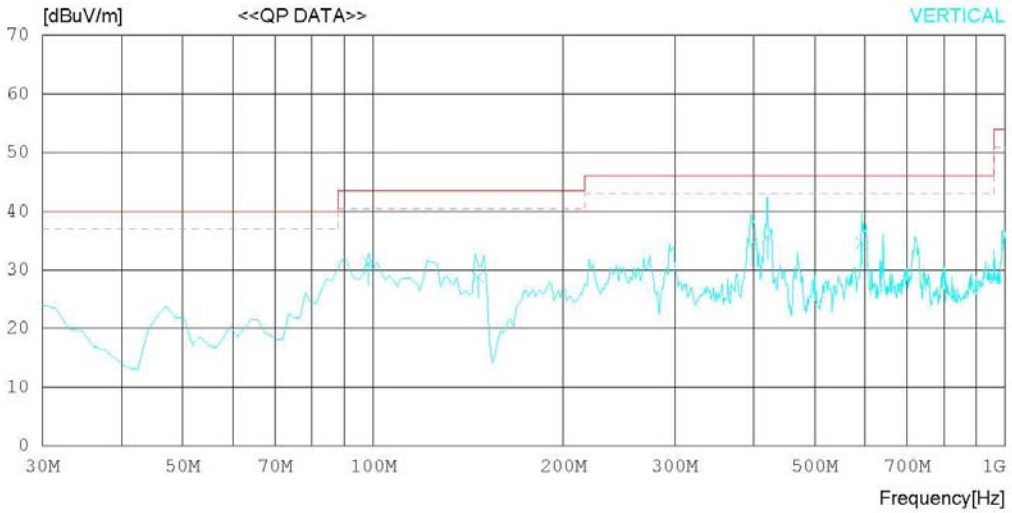
Date : 2012-12-06

Model Name	:	55LA6200-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	18 'C 42 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB





RADIATED EMISSION

Date : 2012-12-06

Model Name	:	55LA6200-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	18 'C 42 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	98.617	41.6	10.6	1.4	22.8	30.8	43.5	12.7	301	224
2	419.326	41.0	16.0	3.5	24.6	35.9	46.0	10.1	100	339
3	600.791	38.2	18.6	4.2	24.7	36.3	46.0	9.7	201	87
----- Vertical ------										
4	98.326	41.9	10.6	1.4	22.8	31.1	43.5	12.4	100	174
5	146.514	39.5	10.8	1.7	23.1	28.9	43.5	14.6	100	335
6	397.147	39.8	15.6	3.5	24.5	34.4	46.0	11.6	100	193
7	420.865	40.6	16.1	3.5	24.6	35.6	46.0	10.4	100	199
8	592.191	36.7	18.5	4.1	24.7	34.6	46.0	11.4	100	203

< USB MODE _ (1 ~ 6) GHz _ Peak >

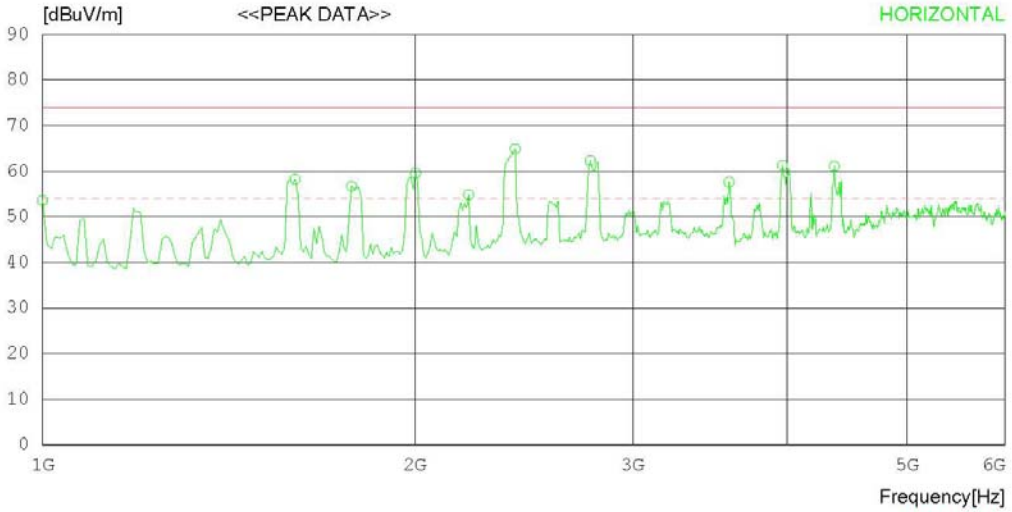
RADIATED EMISSION

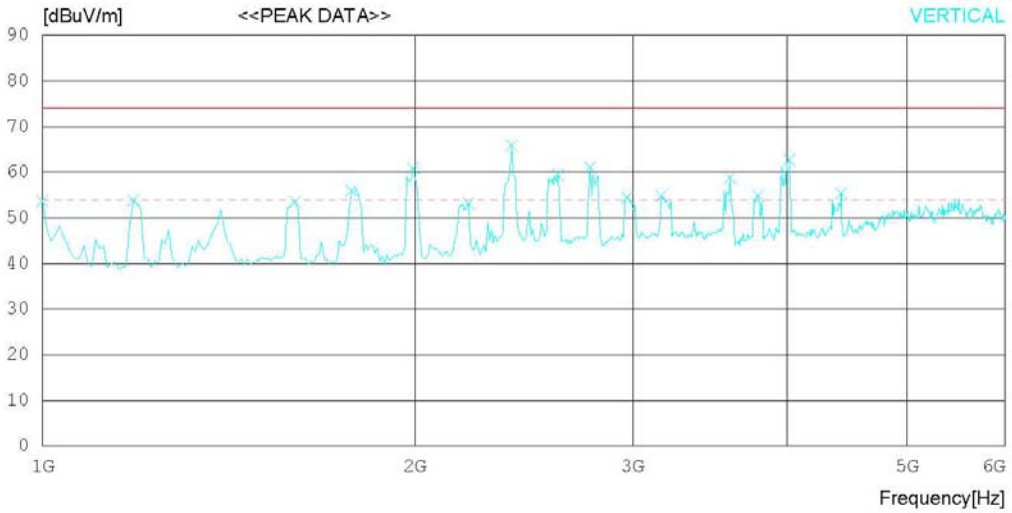
Date : 2012-12-06

Model Name	: 55LA6200-UA	Reference No.	:		
Model No.	:	Power Supply	:	120 V	60 Hz
Serial No.	:	Temp/Humi	:	18 'C	42 % R.H.
Test Condition	: USB	Operator	:		

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)





RADIATED EMISSION

Date : 2012-12-06

Model Name	:	55LA6200-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	18 'C 42 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	1000.000	65.8	23.9	5.7	41.8	53.6	74.0	20.4	100	183
2	1600.961	67.5	24.6	7.7	41.6	58.2	74.0	15.8	100	1
3	1777.243	65.9	24.6	8.0	41.8	56.7	74.0	17.3	100	253
4	2001.602	68.2	24.6	8.5	41.7	59.6	74.0	14.4	100	1
5	2209.938	61.8	25.8	8.9	41.7	54.8	74.0	19.2	100	220
6	2410.261	70.6	26.9	9.3	41.9	64.9	74.0	9.1	100	1
7	2770.844	65.6	28.3	10.1	41.7	62.3	74.0	11.7	100	203
8	3588.164	58.6	29.1	11.9	42.0	57.6	74.0	16.4	100	233
9	3964.772	60.3	30.1	12.9	42.0	61.3	74.0	12.7	100	1
10	4365.411	59.2	30.7	13.3	42.1	61.1	74.0	12.9	100	199
----- Vertical ------										
11	1000.000	65.9	23.9	5.7	41.8	53.7	74.0	20.3	100	358
12	1184.295	65.2	24.2	6.4	41.9	53.9	74.0	20.1	100	196
13	1600.961	62.8	24.6	7.7	41.6	53.5	74.0	20.5	100	358
14	1777.243	65.2	24.6	8.0	41.8	56.0	74.0	18	100	229
15	1993.589	69.6	24.6	8.4	41.7	60.9	74.0	13.1	100	358
16	2209.938	60.2	25.8	8.9	41.7	53.2	74.0	20.8	100	188
17	2394.236	71.7	26.8	9.3	41.9	65.9	74.0	8.1	100	214
18	2610.585	63.6	27.8	9.8	41.8	59.4	74.0	14.6	100	358
19	2770.844	64.4	28.3	10.1	41.7	61.1	74.0	12.9	100	358
20	2971.167	57.0	28.9	10.5	41.9	54.5	74.0	19.5	100	358
21	3163.478	56.7	28.9	10.9	41.8	54.7	74.0	19.3	100	358
22	3596.177	59.8	29.1	11.9	42.0	58.8	74.0	15.2	100	358
23	3788.487	54.7	29.6	12.4	41.8	54.9	74.0	19.1	100	358
24	4012.849	61.6	30.2	13.0	42.1	62.7	74.0	11.3	100	358
25	4421.500	53.3	30.8	13.4	42.1	55.4	74.0	18.6	100	194

< USB MODE _ (1 ~ 6) GHz _ Average >

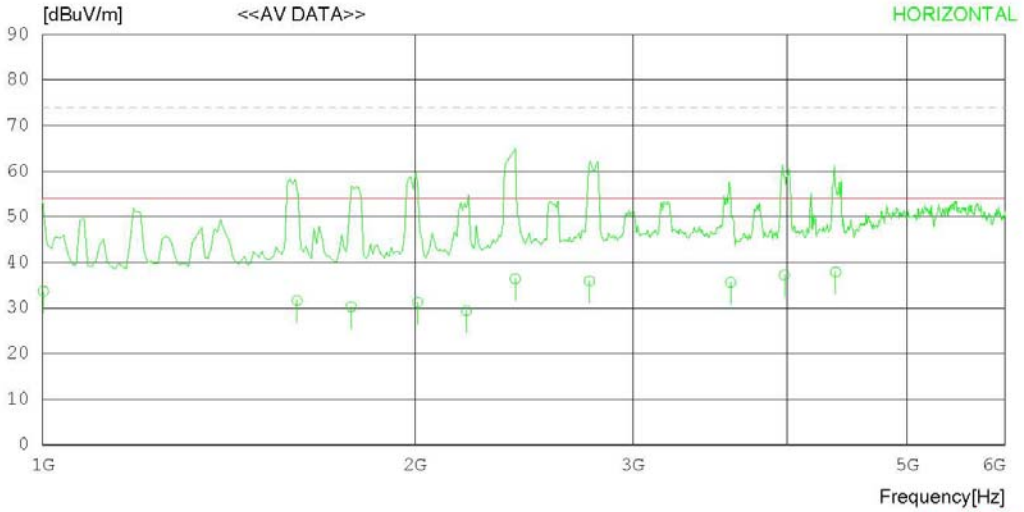
RADIATED EMISSION

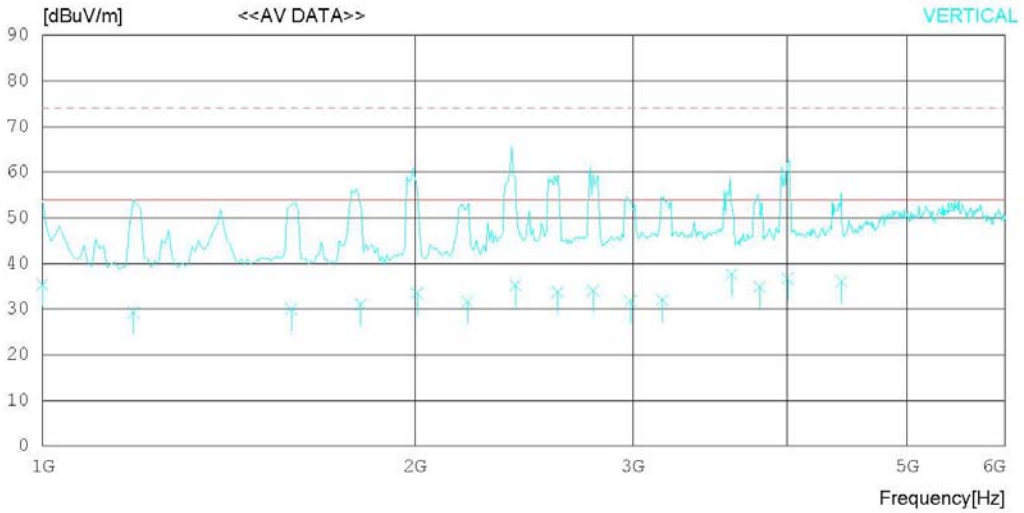
Date : 2012-12-06

Model Name	: 55LA6200-UA	Reference No.	:		
Model No.	:	Power Supply	:	120 V	60 Hz
Serial No.	:	Temp/Humi	:	18 'C	42 % R.H.
Test Condition	: USB	Operator	:		

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)





RADIATED EMISSION

Date : 2012-12-06

Model Name	:	55LA6200-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	18 'C 42 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	1001.514	45.9	23.9	5.7	41.8	33.7	54.0	20.3	100	183
2	1605.769	40.9	24.6	7.7	41.6	31.6	54.0	22.4	100	251
3	1776.256	39.5	24.6	8.0	41.8	30.3	54.0	23.7	100	253
4	2009.974	39.9	24.6	8.5	41.7	31.3	54.0	22.7	100	116
5	2201.588	36.5	25.7	8.9	41.7	29.4	54.0	24.6	100	220
6	2409.775	42.1	26.9	9.3	41.9	36.4	54.0	17.6	100	78
7	2767.621	39.2	28.3	10.1	41.7	35.9	54.0	18.1	100	203
8	3599.378	36.6	29.1	11.9	42.0	35.6	54.0	18.4	100	233
9	3978.612	36.2	30.1	12.9	42.0	37.2	54.0	16.8	100	332
10	4376.118	36.0	30.7	13.3	42.1	37.9	54.0	16.1	100	199
----- Vertical ------										
11	1000.160	47.6	23.9	5.7	41.8	35.4	54.0	18.6	100	195
12	1184.415	40.6	24.2	6.4	41.9	29.3	54.0	24.7	100	196
13	1588.381	39.3	24.6	7.7	41.6	30.0	54.0	24.0	100	264
14	1808.201	40.2	24.6	8.1	41.8	31.1	54.0	22.9	100	229
15	2008.089	42.1	24.6	8.5	41.7	33.5	54.0	20.5	100	74
16	2206.076	38.7	25.7	8.9	41.7	31.6	54.0	22.4	100	188
17	2411.002	41.0	26.9	9.3	41.9	35.3	54.0	18.7	100	214
18	2609.158	38.0	27.8	9.8	41.8	33.8	54.0	20.2	100	116
19	2786.916	37.4	28.3	10.1	41.7	34.1	54.0	19.9	100	268
20	2985.611	34.2	28.9	10.5	41.9	31.7	54.0	22.3	100	95
21	3169.847	34.0	28.9	10.9	41.8	32.0	54.0	22.0	100	116
22	3608.521	38.4	29.2	12.0	42.0	37.6	54.0	16.4	100	226
23	3799.514	34.7	29.6	12.4	41.8	34.9	54.0	19.1	100	309
24	4001.737	35.7	30.2	12.9	42.1	36.7	54.0	17.3	100	339
25	4426.562	33.8	30.8	13.4	42.0	36.0	54.0	18.0	100	194

Appendix 1

List of Test and Measurement Instruments

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment is identified by the Test Laboratory.

1. Conducted Disturbance

Name of Instrument		Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☐	SPECTRUM ANALYZER	8591E	H/P	3649A05889	2012.03.05	2013.03.05
☐	RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2012.07.02	2013.07.02
☐	LISN	KNW-407	KYORITSU	8-317-8	2012.01.09	2013.01.09
☐	LISN	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2012.07.25	2013.07.25
☐	50 OHM TERMINATOR	CT-01	TME	N/A	2012.01.09	2013.01.09
☒	EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
☒	LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2012.09.18	2013.09.18
☒	LISN	LISN1600	TTI	197204	2012.07.02	2013.07.02
☒	50 OHM TERMINATOR	CT-01	TME	N/A	2012.01.09	2013.01.09

2. Radiated Disturbance

Name of Instrument		Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒	EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2012.01.09	2013.01.09
☒	BILOG ANTENNA	CBL6112D	SCHAFFNER	22609	2011.12.21	2012.12.21
☒	HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2012.05.15	2014.05.15
☒	AMPLIFIER	8447E	H/P	2945A02865	2012.01.09	2013.01.09
☒	AMPLIFIER	MLA-100M18-B01-25	TSJ	1719458	2012.06.04	2013.06.04
☐	SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2012.07.11	2013.07.11
☐	AMPLIFIER	8447D	AGILENT	2443A03690	2012.07.01	2013.07.01
☐	BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.03.22	2014.03.22
☐	EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
☐	BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2012.04.10	2014.04.10
☐	LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2012.04.10	2014.04.10
☐	BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2012.03.12	2014.03.12
☐	LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2012.03.12	2014.03.12
☐	AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2012.03.05	2013.03.05