EMC TEST REPORT

Test item	: LED LCD TV monitor
Model No.	: 22LT560C-UA
Order No.	: 1203-00051
Date of receipt	: 2012-03-14
Test duration	: 2012-03-21 ~ 2012-03-22
Use of report	: FCC CoC Marking
Date of Issue	: 2012-03-26

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 : (20 ~ 24) °C,
Humidity : (35 ~ 41) % 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.
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Tested by:

Engineer
H.J.KIM

Reviewed by:

Manager
M.J.SONG

The above test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

PRESIDENT OF DIGITAL EMC CO., LTD.

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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”.

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3. General Information of EUT

Model No.	22LT560C-UA
EUT Type	LED LCD TV monitor
Serial No	NONE
FCC ID	BEJ22LT560CUA
Type of Sample Tested	Pre-Production
High Frequency	667 MHz
Rating	DC 24 V, 1.4A
Supplied Power for Test	AC120 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

Related Submittal(s) / Grant(s)

Original submittal only.

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1360x768	47.712	60.015

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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.)	Pressure (hPa)
Conducted Disturbance	03-21 03-21	24 20	37 41	-
Radiated Disturbance	03-22 03-22 03-22	22 21 20	37 35 36	

4.3 Test result Summary

(1) Conducted Emission(HDMI MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.17170	**N**	**44.9**	Quasi-Peak	**64.9**	**20.0**

(2) Radiated Emission(DSUB MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
39.134	**V**	**34.8**	Quasi-Peak	**40.0**	**5.2**

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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

- DSUB MODE– Resolution : 1360 x 768 Resolution (Worst Case)
- HDMI MODE – Resolution : 1360 x 768 Resolution (Worst Case)
- USB MODE

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE			Backshell	FCC ID
				Connect type	Length (m)	shield		
PC	DCSCMF	G3RZKBX	DELL	POWER HDMI DSUB STEREO USB PS/2	1.8 1.8 1.8 1.5 1.8 1.8	Non-shield Shield Shield Non-shield Shield Shield	Plastic	DOC
KEYBOARD	SKG-3000UB	TAKSB24503Y	MONITEREY INTERNATIONAL CORP	USB	1.8	Shield	Plastic	DOC
MOUSE	SML-510PB	TAKS903519Z	MONITEREY INTERNATIONAL CORP	PS/2	1.8	Shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS	POWER AV	1.8 1.6	Non-shield Non-shield	Plastic	VER
USB MEMORY	JEWERLY	N/A	AXXEN	USB	-	-	-	DOC
PRINTER	SPR-770	N/A	N/A	POWER USB	1.8 1.6	Non-shield Shield	Plastic	DOC

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6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15MHz to 30MHz, 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 0.8m above the reference ground plane and 0.4m 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 0.15m 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 0.15MHz to 0.5MHz.

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Test Result

< DSUB MODE >

Digital EMC

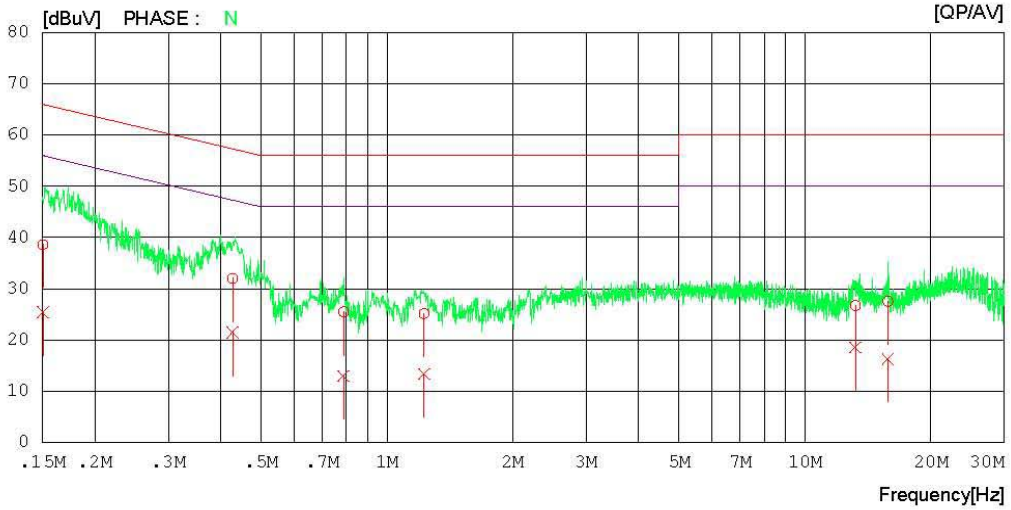
Results of Conducted Emission

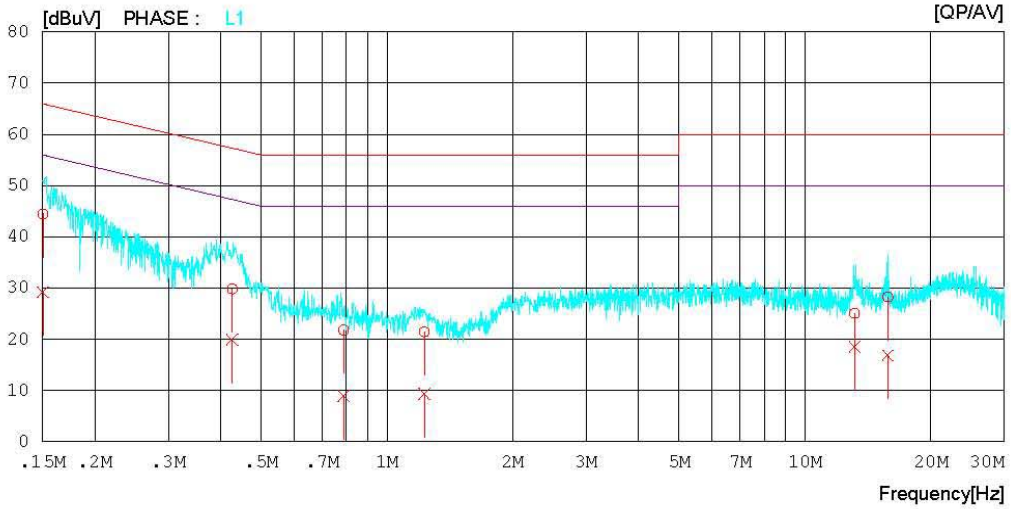
Digital EMC
Date : 2012-03-21

Model No.	:	22LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	20'C 41% R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Results of Conducted Emission

Digital EMC
Date : 2012-03-21

Model No.	:	22LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	20'C 41% R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.15039	38.3	25.1	0.3	38.6	25.4	66.0	56.0	27.4	30.6	N
2	0.42740	31.7	21.1	0.3	32.0	21.4	57.3	47.3	25.3	25.9	N
3	0.78760	25.3	12.8	0.2	25.5	13.0	56.0	46.0	30.5	33.0	N
4	1.22800	24.8	13.0	0.3	25.1	13.3	56.0	46.0	30.9	32.7	N
5	13.21550	25.8	17.6	0.9	26.7	18.5	60.0	50.0	33.3	31.5	N
6	15.80000	26.5	15.3	1.0	27.5	16.3	60.0	50.0	32.5	33.7	N
7	0.15047	44.2	29.0	0.3	44.5	29.3	66.0	56.0	21.5	26.7	L1
8	0.42699	29.5	19.6	0.3	29.8	19.9	57.3	47.3	27.5	27.4	L1
9	0.78783	21.6	8.8	0.2	21.8	9.0	56.0	46.0	34.2	37.0	L1
10	1.22950	21.1	9.0	0.3	21.4	9.3	56.0	46.0	34.6	36.7	L1
11	13.14900	24.2	17.6	0.9	25.1	18.5	60.0	50.0	34.9	31.5	L1
12	15.79550	27.2	15.9	1.0	28.2	16.9	60.0	50.0	31.8	33.1	L1

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< HDMI MODE >

Digital EMC

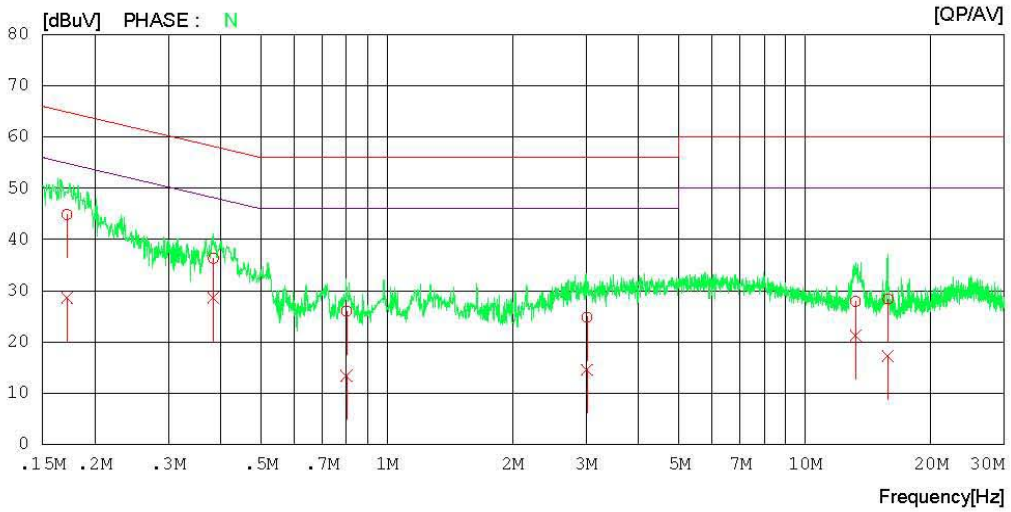
Results of Conducted Emission

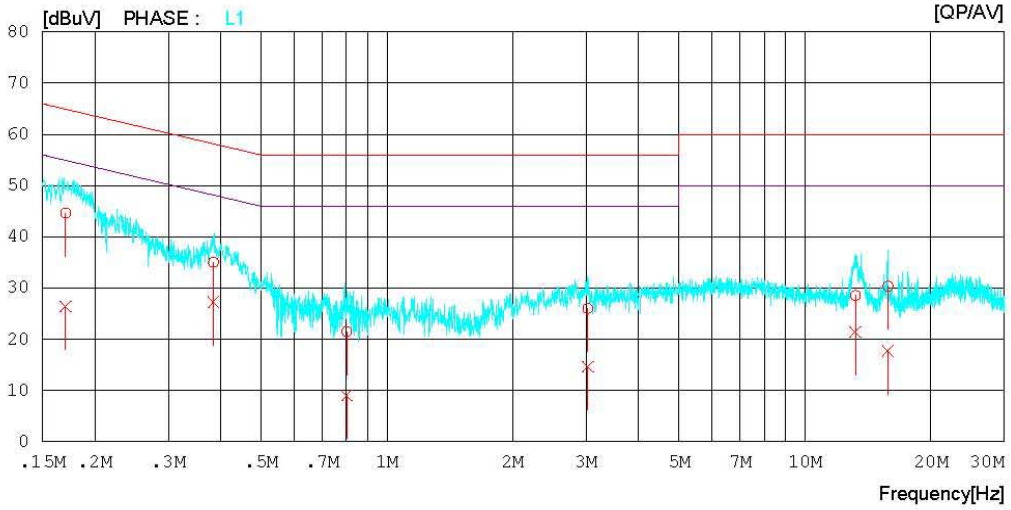
Digital EMC
Date : 2012-03-21

Model No.	:	22LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	24 'C 37 % R.H
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Results of Conducted Emission

Digital EMC
Date : 2012-03-21

Model No.	: 22LT560C-UA	Referrence No.	:
Type	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi.	: 24 'C 37 % R.H
Test Condition	: HDMI	Operator	:

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.17170	44.7	28.4	0.2	44.9	28.6	64.9	54.9	20.0	26.3	N
2	0.38479	36.0	28.3	0.3	36.3	28.6	58.2	48.2	21.9	19.6	N
3	0.80099	25.7	13.1	0.3	26.0	13.4	56.0	46.0	30.0	32.6	N
4	3.01200	24.5	14.2	0.4	24.9	14.6	56.0	46.0	31.1	31.4	N
5	13.22150	27.0	20.3	0.9	27.9	21.2	60.0	50.0	32.1	28.8	N
6	15.80300	27.4	16.2	1.0	28.4	17.2	60.0	50.0	31.6	32.8	N
7	0.17030	44.5	26.2	0.2	44.7	26.4	64.9	54.9	20.2	28.5	L1
8	0.38479	34.8	27.0	0.3	35.1	27.3	58.2	48.2	23.1	20.9	L1
9	0.80191	21.2	8.7	0.3	21.5	9.0	56.0	46.0	34.5	37.0	L1
10	3.02300	25.6	14.3	0.4	26.0	14.7	56.0	46.0	30.0	31.3	L1
11	13.21350	27.7	20.5	0.9	28.6	21.4	60.0	50.0	31.4	28.6	L1
12	15.80800	29.4	16.7	1.0	30.4	17.7	60.0	50.0	29.6	32.3	L1

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< USB MODE >

Digital EMC

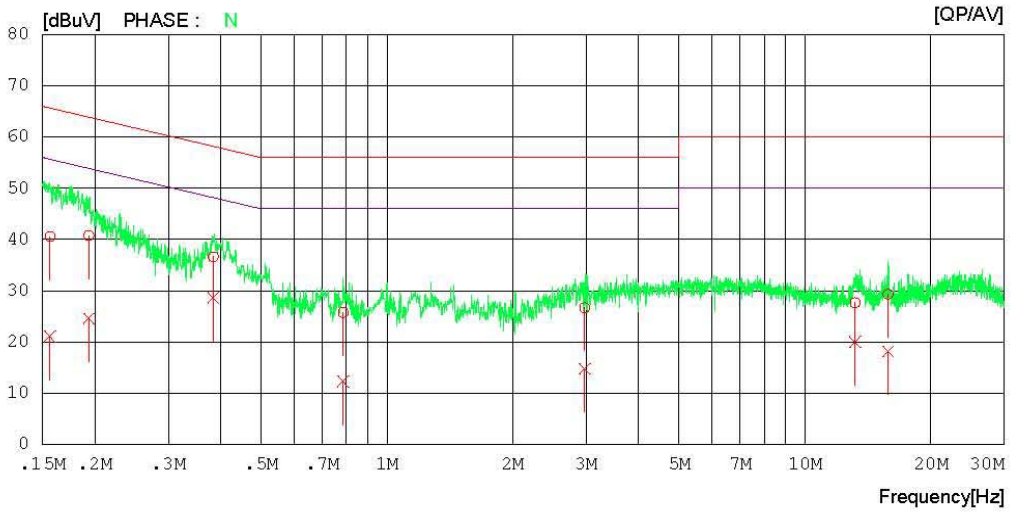
Results of Conducted Emission

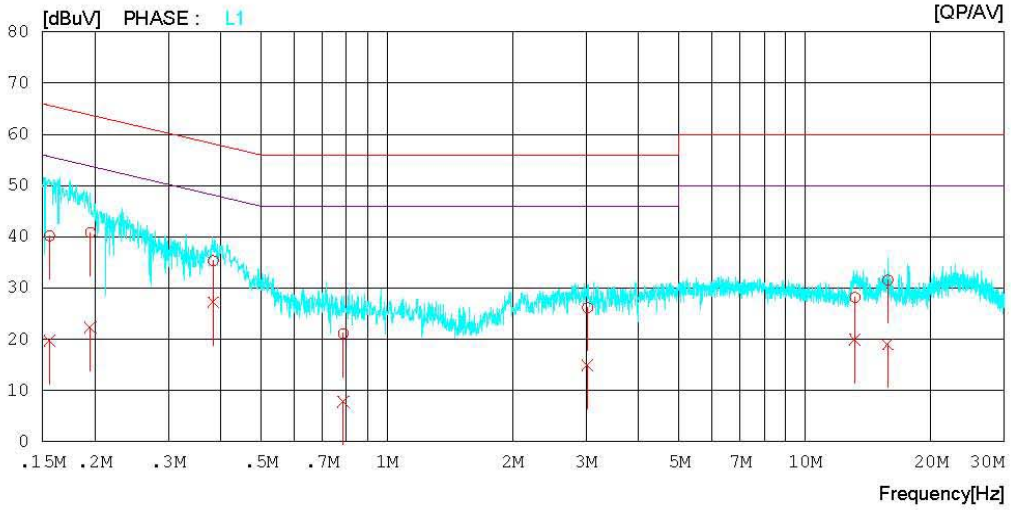
Digital EMC
Date : 2012-03-21

Model No.	:	22LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	20'C 41% R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Results of Conducted Emission

Digital EMC
Date : 2012-03-21

Model No.	:	22LT560C-UA	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	20'C 41% R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.15633	40.2	20.8	0.3	40.5	21.1	65.7	55.7	25.2	34.6	N
2	0.19374	40.6	24.4	0.2	40.8	24.6	63.9	53.9	23.1	29.3	N
3	0.38461	36.3	28.3	0.3	36.6	28.6	58.2	48.2	21.6	19.6	N
4	0.78623	25.5	12.1	0.2	25.7	12.3	56.0	46.0	30.3	33.7	N
5	2.97300	26.4	14.4	0.3	26.7	14.7	56.0	46.0	29.3	31.3	N
6	13.18700	26.8	19.1	0.9	27.7	20.0	60.0	50.0	32.3	30.0	N
7	15.80100	28.3	17.2	1.0	29.3	18.2	60.0	50.0	30.7	31.8	N
8	0.15598	39.9	19.4	0.3	40.2	19.7	65.7	55.7	25.5	36.0	L1
9	0.19519	40.7	22.1	0.2	40.9	22.3	63.8	53.8	22.9	31.5	L1
10	0.38420	35.1	26.9	0.3	35.4	27.2	58.2	48.2	22.8	21.0	L1
11	0.78640	21.0	7.6	0.2	21.2	7.8	56.0	46.0	34.8	38.2	L1
12	3.02150	25.8	14.5	0.4	26.2	14.9	56.0	46.0	29.8	31.1	L1
13	13.18450	27.3	19.1	0.9	28.2	20.0	60.0	50.0	31.8	30.0	L1
14	15.79950	30.6	18.0	1.0	31.6	19.0	60.0	50.0	28.4	31.0	L1

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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 0.8m above the reference ground plane and 3m 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 0.15m above the reference ground plane.

Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4m 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 1GHz frequency range, Quasi-Peak detector with 120kHz RBW was used.

Also Peak and Average detector with 1MHz RBW were used for above 1GHz frequency range.

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

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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	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower

(1) Limit for Radiated Emission below 1000MHz

Frequency range (MHz)	Class A Equipment (10m distance)	Class B Equipment (3m 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 1000	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 (10m distance)	Class B Equipment (10m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 230	40	30
230 to 1000	47	37

(2) Limits for Radiated Emission above 1000MHz at a measuring distance of 3m

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

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Test Result

< DSUB MODE_30 MHz ~ 1 GHz >

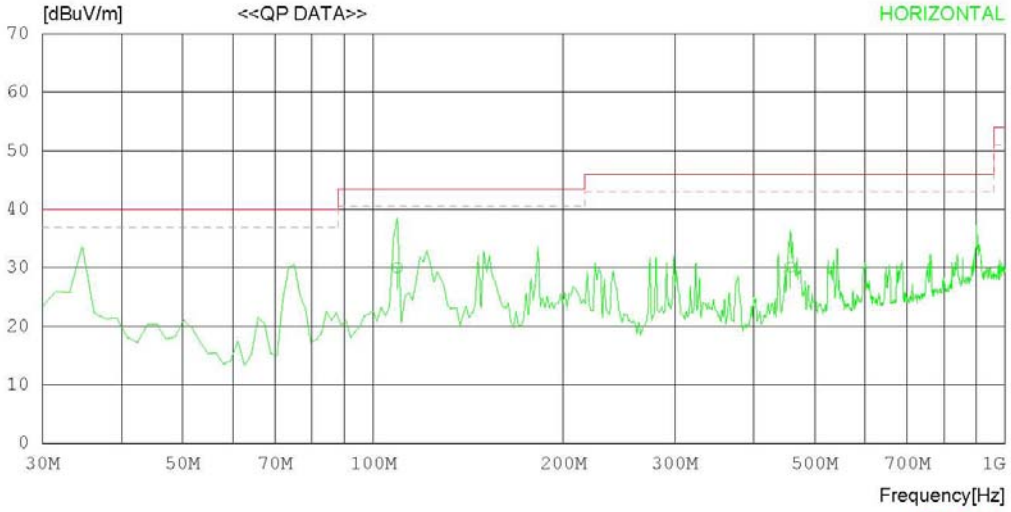
RADIATED EMISSION

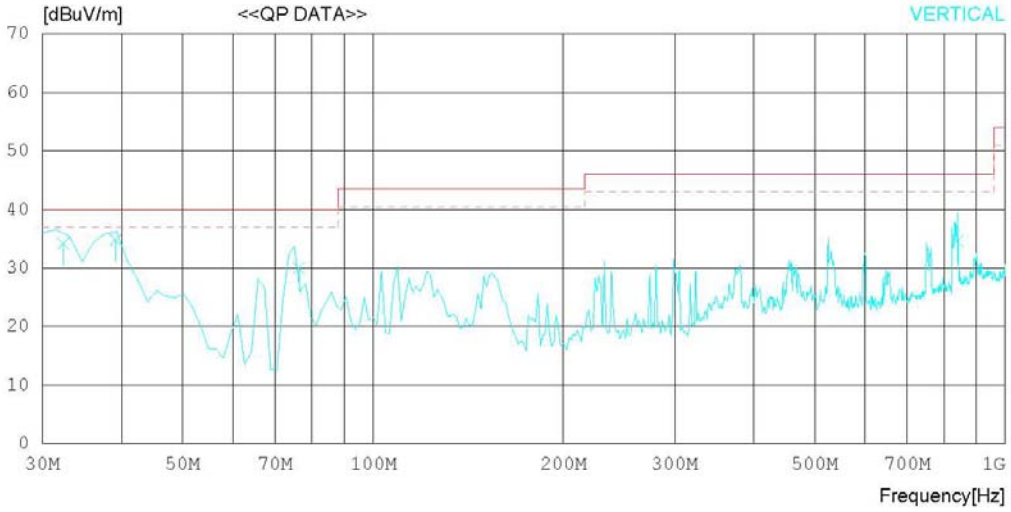
Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 35 % R.H
Test Condition	:	DSUB	Operator	:	

Memo :

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





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RADIATED EMISSION

Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 35 % R.H
Test Condition	:	DSUB	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	109.274	40.6	10.7	1.5	22.8	30.0	43.5	13.5	400	243
2	456.951	34.5	17.1	3.2	24.7	30.1	46.0	15.9	200	255
----- Vertical ------										
3	32.341	38.9	17.6	0.9	23.2	34.2	40.0	5.8	100	1
4	39.134	42.5	14.4	0.9	23.0	34.8	40.0	5.2	100	358
5	76.283	44.3	7.2	1.3	22.8	30.0	40.0	10.0	100	358
6	840.067	31.2	22.5	4.4	23.5	34.6	46.0	11.4	100	358

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< DSUB MODE_1 GHz ~ 6 GHz_Peak >

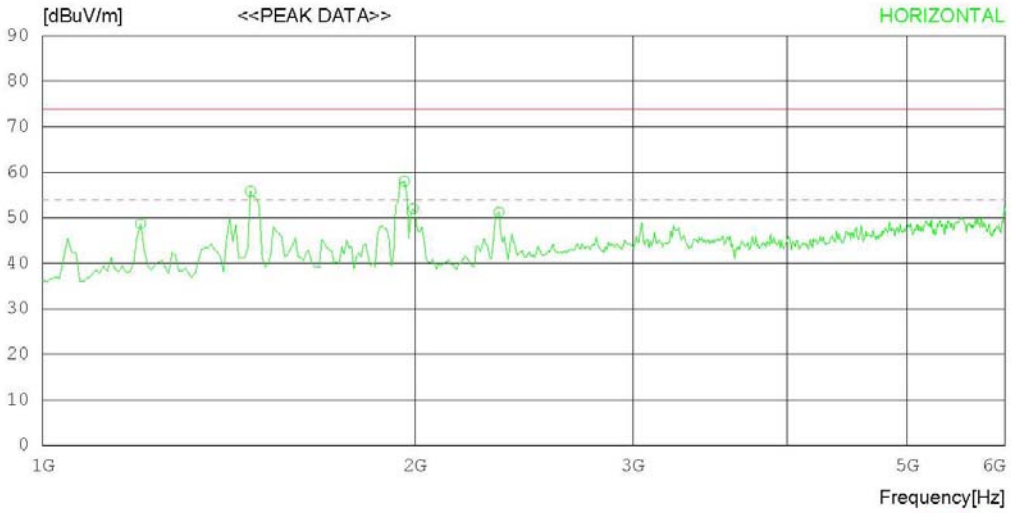
RADIATED EMISSION

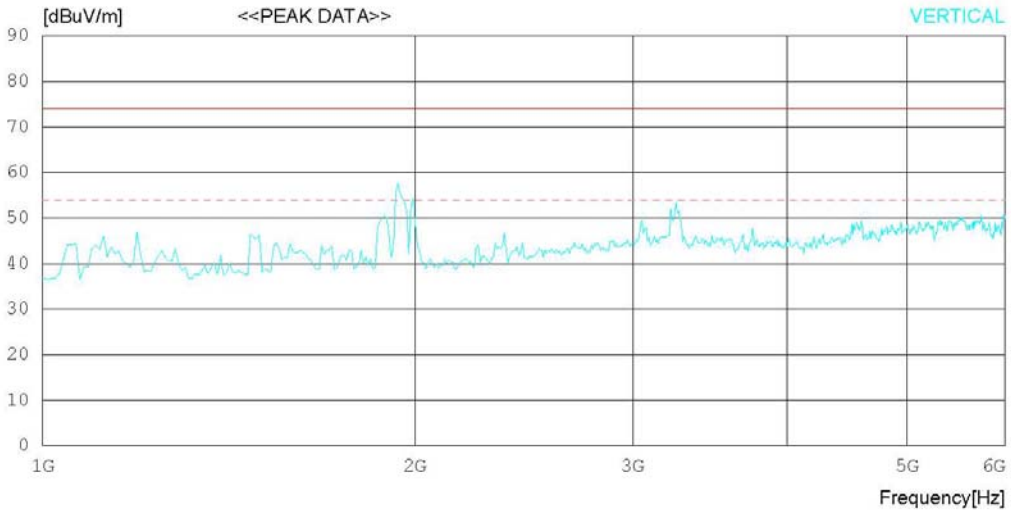
Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % R.H
Test Condition	:	DSUB	Operator	:	

Memo :

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





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RADIATED EMISSION

Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % R.H
Test Condition	:	DSUB	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	1200.320	61.1	24.2	5.3	41.9	48.7	74.0	25.3	100	197
2	1472.756	66.4	25.1	5.9	41.6	55.8	74.0	18.2	100	1
3	1961.538	67.6	25.2	6.9	41.7	58.0	74.0	16	100	195
4	1993.589	61.5	25.2	7.0	41.7	52.0	74.0	22	100	203
5	2338.145	58.9	26.6	7.5	41.8	51.2	74.0	22.8	100	1

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< DSUB MODE_1 GHz ~ 6 GHz_Average >

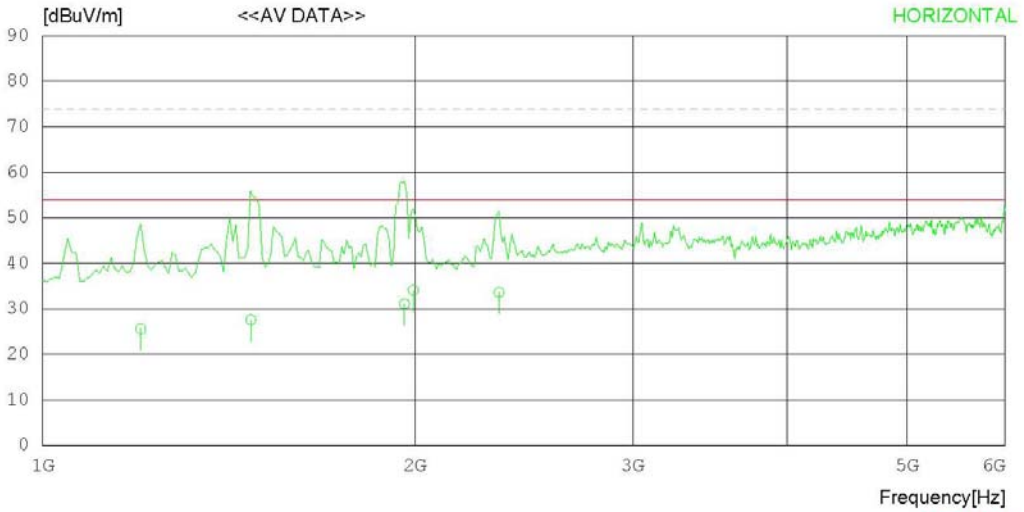
RADIATED EMISSION

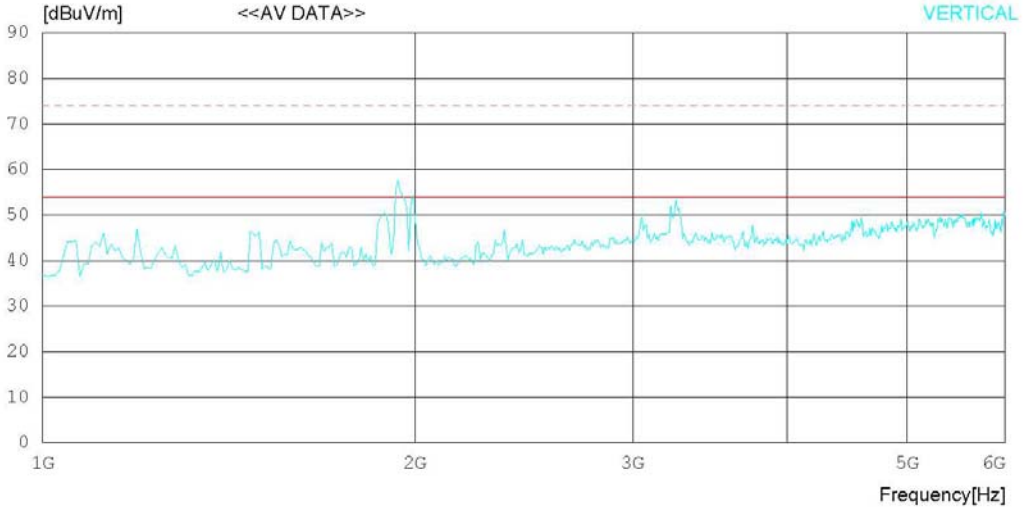
Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % R.H
Test Condition	:	DSUB	Operator	:	

Memo :

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





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RADIATED EMISSION

Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % R.H
Test Condition	:	DSUB	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	1200.149	38.0	24.2	5.3	41.9	25.6	54.0	28.4	100	197
2	1473.692	38.2	25.1	5.9	41.6	27.6	54.0	26.4	100	1
3	1961.538	40.7	25.2	6.9	41.7	31.1	54.0	22.9	100	195
4	1993.589	43.6	25.2	7.0	41.7	34.1	54.0	19.9	100	203
5	2338.145	41.3	26.6	7.5	41.8	33.6	54.0	20.4	100	1

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< HDMI MODE_30 MHz ~ 1 GHz >

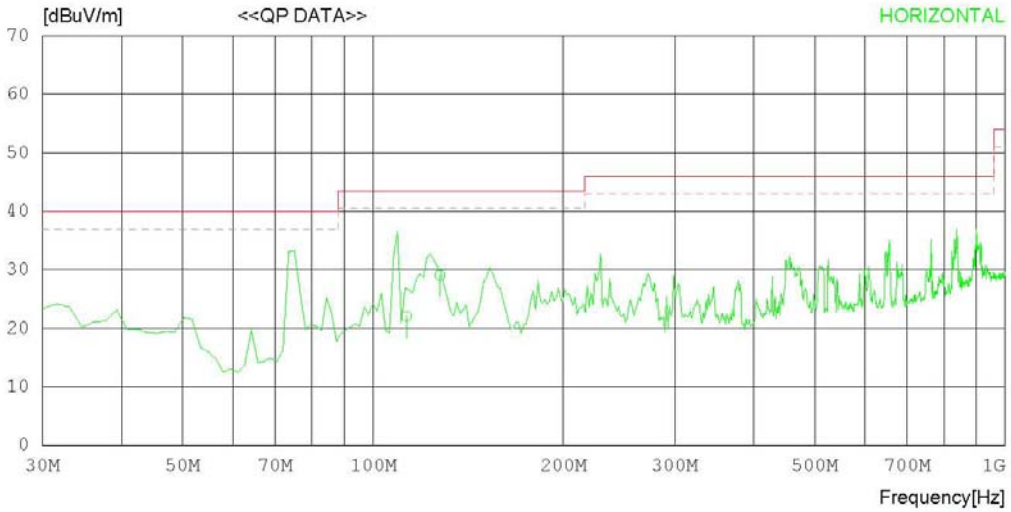
RADIATED EMISSION

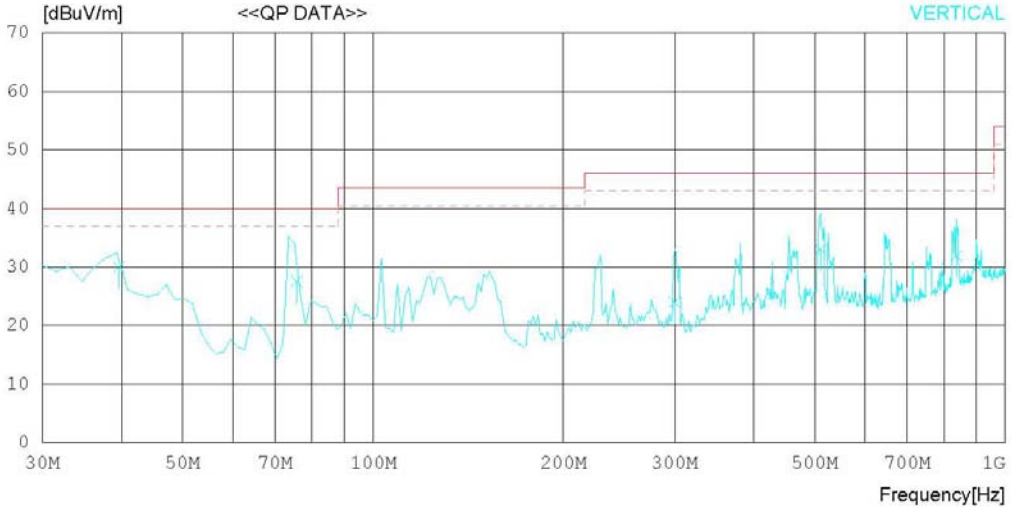
Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 35 % R.H
Test Condition	:	HDMI	Operator	:	

Memo :

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





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RADIATED EMISSION

Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 35 % 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	112.899	32.3	11.1	1.5	22.8	22.1	43.5	21.4	300	204
2	127.548	38.8	11.6	1.6	22.9	29.1	43.5	14.4	300	358
----- Vertical ------										
3	39.634	38.0	14.1	0.9	23.0	30.0	40.0	10.0	100	251
4	75.716	41.8	7.2	1.3	22.8	27.5	40.0	12.5	100	297
5	300.346	31.9	13.4	2.6	23.9	24.0	46.0	22.0	100	1
6	510.000	36.2	18.1	3.4	24.7	33.0	46.0	13.0	100	225
7	838.000	28.5	22.4	4.5	23.5	31.9	46.0	14.1	100	168

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< HDMI MODE_1 GHz ~ 6 GHz_Peak >

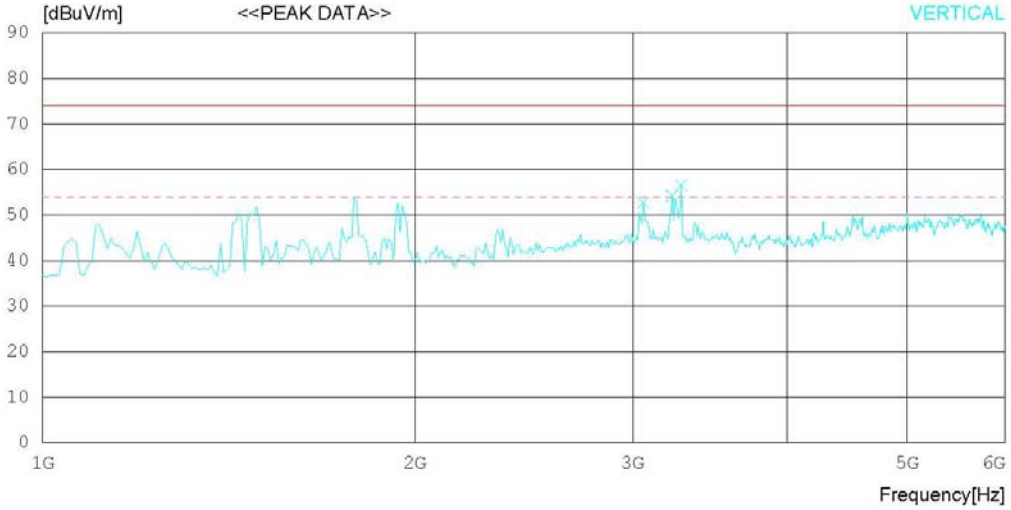
RADIATED EMISSION

Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % 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)



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RADIATED EMISSION

Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % 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	1448.718	66.4	25.0	5.8	41.6	55.6	74.0	18.4	100	358
2	1480.769	66.4	25.1	5.9	41.6	55.8	74.0	18.2	100	358
3	1793.269	62.7	25.2	6.6	41.8	52.7	74.0	21.3	100	358
4	1937.500	69.5	25.2	6.9	41.7	59.9	74.0	14.1	100	189
----- Vertical ------										
5	3059.310	56.8	28.9	8.8	41.8	52.7	74.0	21.3	100	168
6	3227.581	58.0	29.0	9.1	41.8	54.3	74.0	19.7	100	1
7	3283.672	60.3	29.0	9.1	41.9	56.5	74.0	17.5	100	208

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< HDMI MODE_1 GHz ~ 6 GHz_Average >

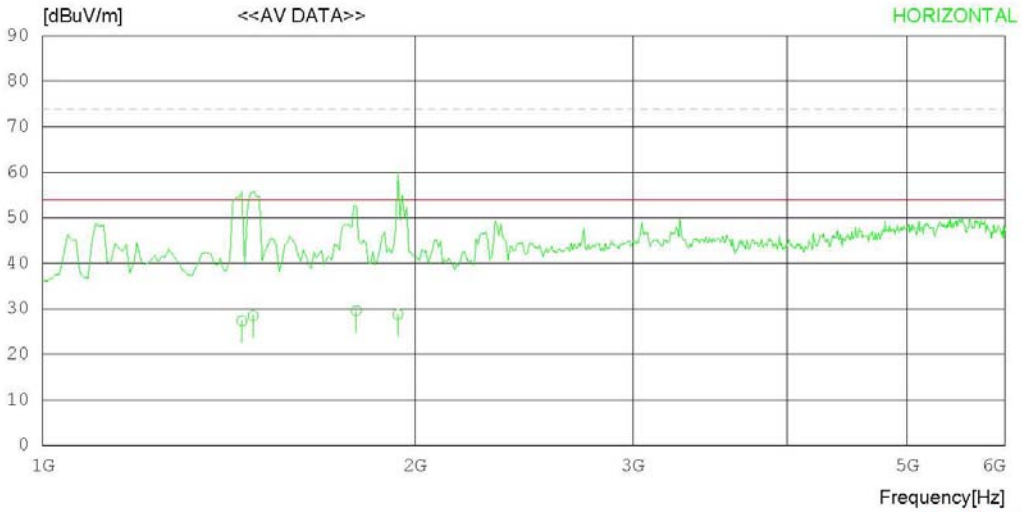
RADIATED EMISSION

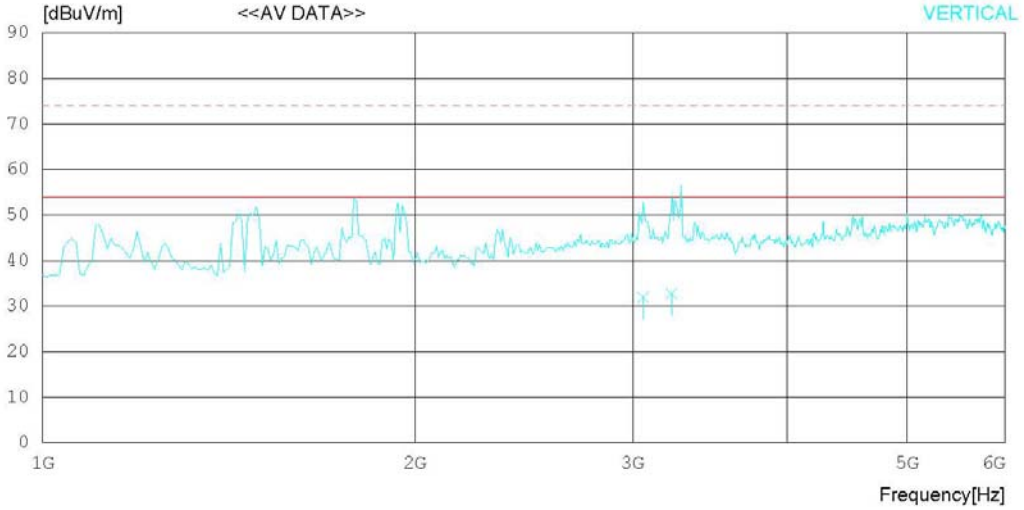
Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % 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)





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RADIATED EMISSION

Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % 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	1448.903	38.1	25.0	5.8	41.6	27.3	54.0	26.7	100	358
2	1479.865	39.1	25.1	5.9	41.6	28.5	54.0	25.5	100	358
3	1793.269	39.6	25.2	6.6	41.8	29.6	54.0	24.4	100	358
4	1937.432	38.4	25.2	6.9	41.7	28.8	54.0	25.2	100	189
----- Vertical ------										
5	3058.996	36.0	28.9	8.8	41.8	31.9	54.0	22.1	100	168
6	3225.423	36.5	29.0	9.1	41.8	32.8	54.0	21.2	100	1

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< USB MODE_30 MHz ~ 1 GHz >

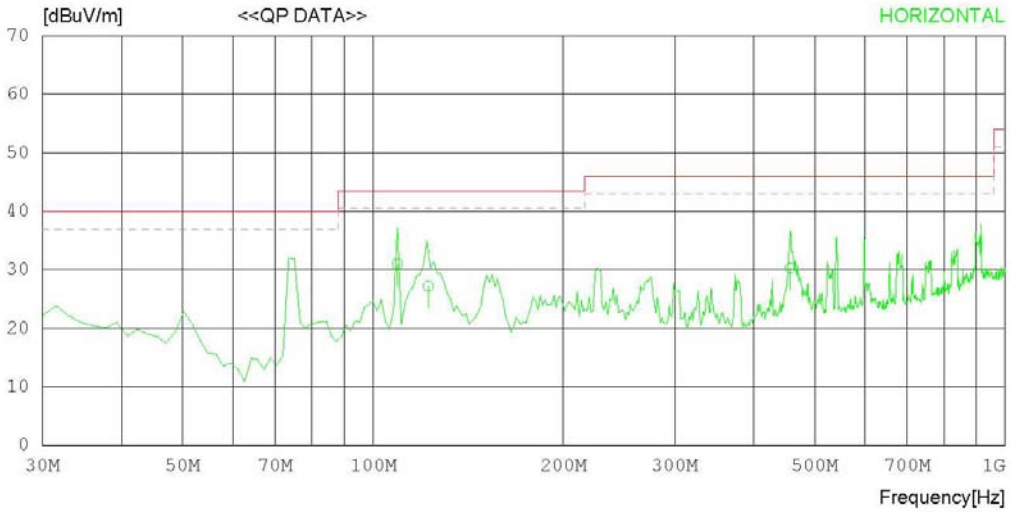
RADIATED EMISSION

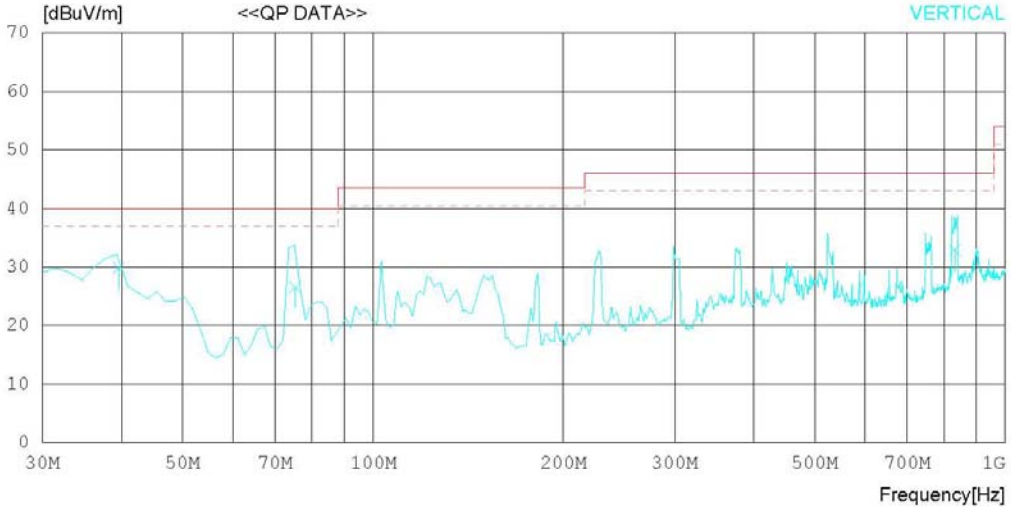
Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 35 % R.H
Test Condition	:	USB	Operator	:	

Memo :

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





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RADIATED EMISSION

Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 35 % 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	109.240	41.6	10.7	1.5	22.8	31.0	43.5	12.5	400	261
2	122.190	36.8	11.7	1.6	22.9	27.2	43.5	16.3	200	77
3	456.951	34.7	17.1	3.2	24.7	30.3	46.0	15.7	200	1
----- Vertical ------										
4	39.608	37.9	14.1	0.9	23.0	29.9	40.0	10.1	100	1
5	75.384	41.0	7.1	1.3	22.8	26.6	40.0	13.4	100	1
6	832.000	29.6	22.3	4.5	23.5	32.9	46.0	13.1	100	203

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< USB MODE_1 GHz ~ 6 GHz_Peak >

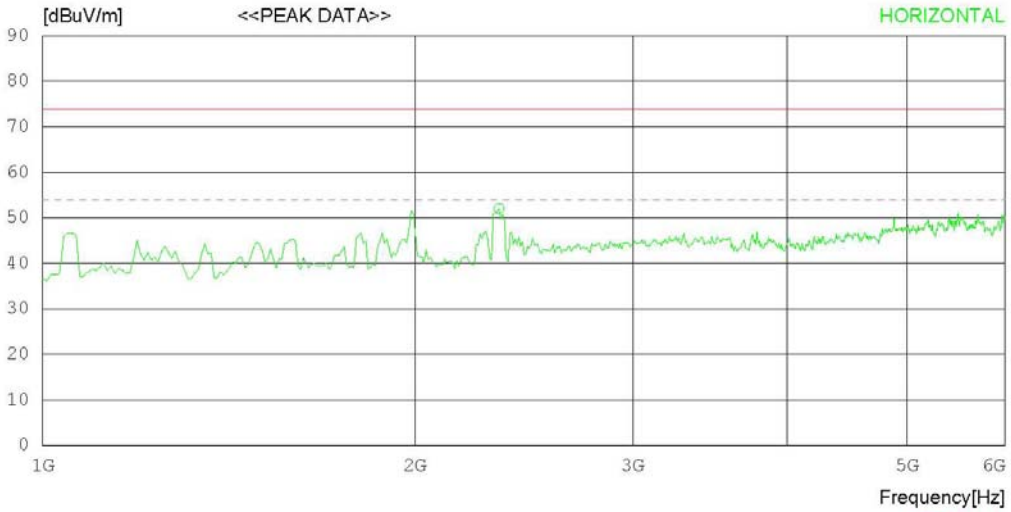
RADIATED EMISSION

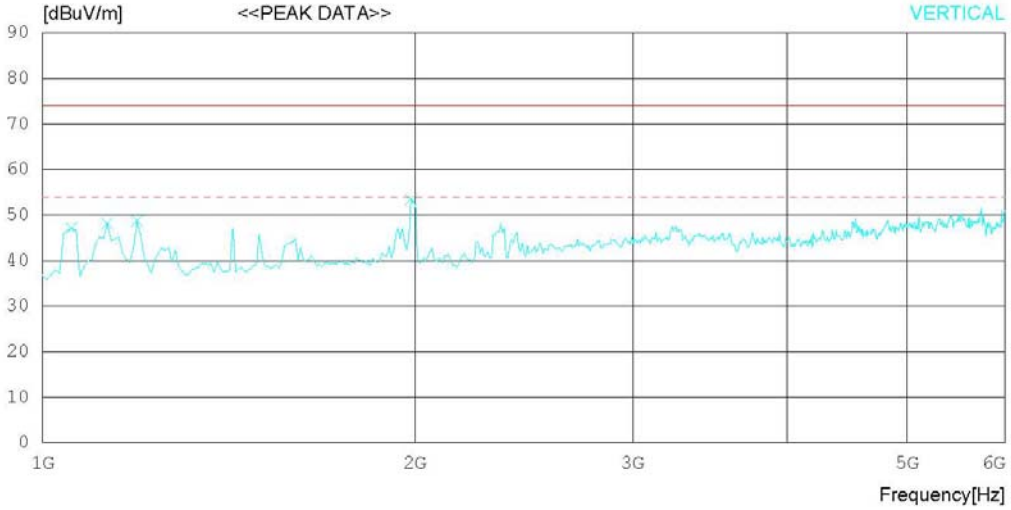
Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % 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)





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RADIATED EMISSION

Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % 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	2338.145	59.7	26.6	7.5	41.8	52.0	74.0	22	100	120
----- Vertical ------										
2	1056.090	60.2	23.8	4.9	41.8	47.1	74.0	26.9	100	194
3	1128.205	60.8	24.0	5.1	41.8	48.1	74.0	25.9	100	40
4	1192.308	61.1	24.2	5.3	41.9	48.7	74.0	25.3	100	170
5	1985.577	62.9	25.2	7.0	41.7	53.4	74.0	20.6	100	59

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< USB MODE_1 GHz ~ 6 GHz_Average >

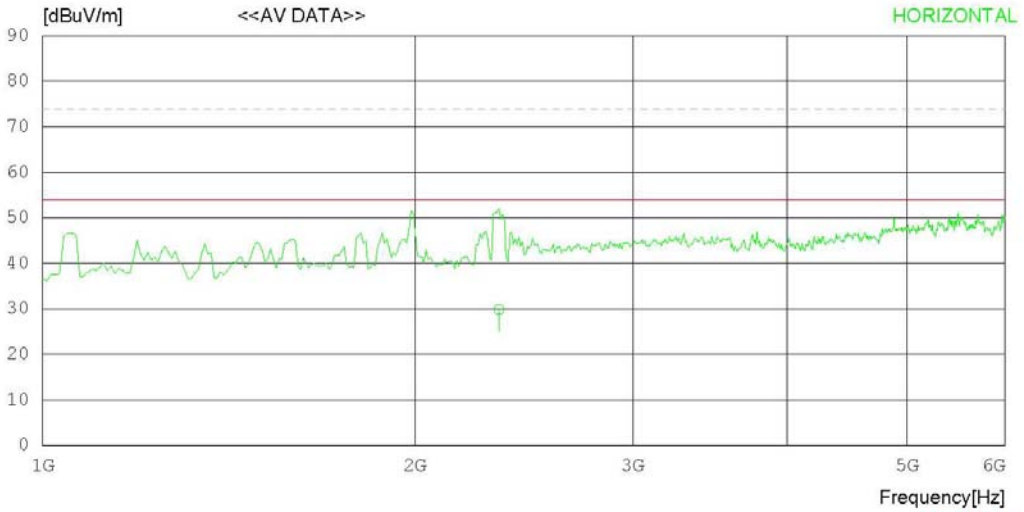
RADIATED EMISSION

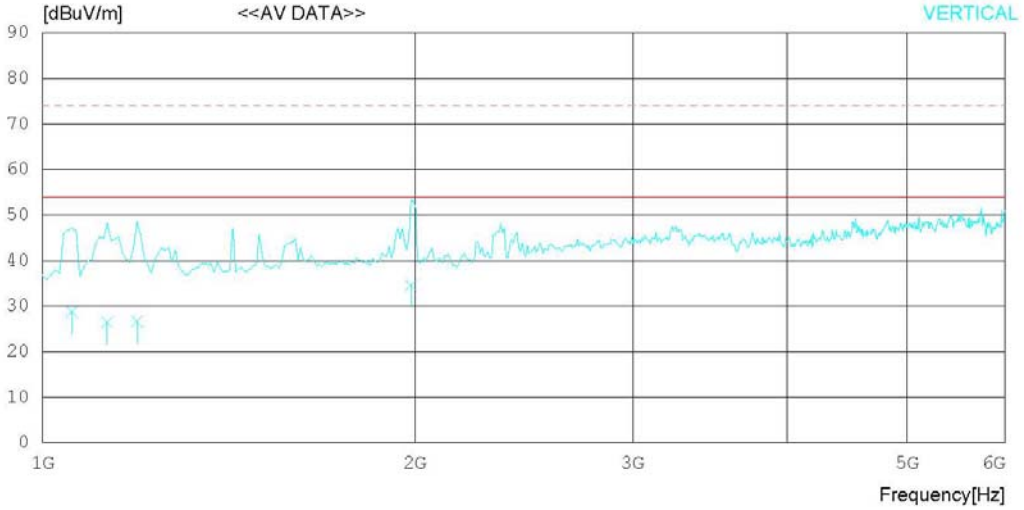
Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % 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)





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RADIATED EMISSION

Date : 2012-03-22

Model Name	:	22LT560C-UA	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 36 % 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	2338.145	37.6	26.6	7.5	41.8	29.9	54.0	24.1	100	120
----- Vertical ------										
2	1056.090	41.8	23.8	4.9	41.8	28.7	54.0	25.3	100	194
3	1128.205	39.2	24.0	5.1	41.8	26.5	54.0	27.5	100	40
4	1192.308	39.1	24.2	5.3	41.9	26.7	54.0	27.3	100	170
5	1985.577	44.0	25.2	7.0	41.7	34.5	54.0	19.5	100	59

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Appendix 1

List of Test and Measurement Instruments

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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	2011.07.02	2012.07.02
☐	LISN	KNW-407	KYORITSU	8-317-8	2012.01.09	2013.01.09
☐	LISN	KNW-242	KYORITSU	8-654-15	2011.09.19	2012.09.19
☐	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	2011.09.30	2012.09.30
☒	LISN	LISN1600	TTI	197204	2011.07.02	2012.07.02
☒	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	VULB9160	SCHAFFNER	3151	2010.08.25	2012.08.25
☒	HORN ANTENNA	3115	ETS	6419	2012.02.20	2013.02.20
☒	AMPLIFIER	8447E	H/P	2945A02865	2012.01.09	2013.01.09
☒	AMPLIFIER	MLA-00108-B02-36	TSJ	1518831	2012.01.09	2013.01.09
☐	SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2011.07.11	2012.07.11
☐	AMPLIFIER	8447D	AGILENT	2443A03690	2011.07.01	2012.07.01
☐	BILOG ANTENNA	VULB9160	SCHAFFNER	3151	2010.08.25	2012.08.25
☐	EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
☐	BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2010.11.29	2012.11.29
☐	LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2010.07.07	2012.07.07
☐	BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2010.12.21	2012.12.21
☐	LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2010.11.29	2012.11.29
☐	AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2012.03.05	2013.03.05

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