

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 55LN5750-UH
Order No. : DEMC1302-00476
Date of receipt : 2013-02-04
Test duration : 2013-02-14
Use of report : FCC CoC Marking
Date of Issue : 2013-02-19

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 ~ 22) °C,
Humidity : (37 ~ 38) % 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.

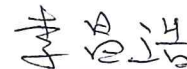
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Tested by:

Reviewed by:



Engineer
HyungJun Kim



General Manager
ChangHo Lee

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	ROK1221C	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.	55LN5750-UH
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ55LN5750UH
Type of Sample Tested	Pre-Production
High Frequency	790 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.1 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
1152 x 864	54.348	60.053
1360 x 768	47.712	60.015
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 (°C)	Humidity (% R.H.)
Conducted Disturbance	02-14	20	37
Radiated Disturbance	02-14	20	37
	02-14	22	38

4.3 Test result Summary

(1) Conducted Emission (USB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.51650	N	34.9	Average	46.0	11.1

(2) Radiated Emission (HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
768.382	V	41.1	Quasi-Peak	46.0	4.9

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 : 1920x1080 Resolution (Worst case)
- USB MODE : USB record file play
- HDMI MODE & USB MODE : “H” characters scroll on the LCD TV screen.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	DCSCMF	G3RZK BX	DELL INC.	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.8	Not use	Shield		
				USB	1.8	Not use	Shield		
				USB	1.8	Not use	Shield		
				USB	1.5	Not use	Shield		
KEYBOARD	KB-065	CN111363232	HP	USB	1.8	Not use	Shield	Plastic	DOC
MOUSE	1094	X817158-002	MICROSOFT CORPORATION	USB	1.6	Not use	Shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS.	POWER Component	1.8 1.6	Not use Not use	Non-shield Non-shield	Plastic	VER
USB MEMORY	CRUZER 4GB	N/A	SANDISK	USB	-	-	-	Plastic	DOC
PRINT	EPSON Aculaser M1200	LWTZ181070	EPSON	POWER	1.8	Not use	Non-shield	Plastic	DOC
				USB	1.8	Not use	Shield		
HEADSET	COV9	N/A	COSY	Headphone	2.5	Not use	Non-shield	Plastic	DOC
REMOTE CONTROL	AN-MR400K	N/A	OHSUNG ELECTRONICS CO., LTD.	-	-	-	-	-	-

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 >

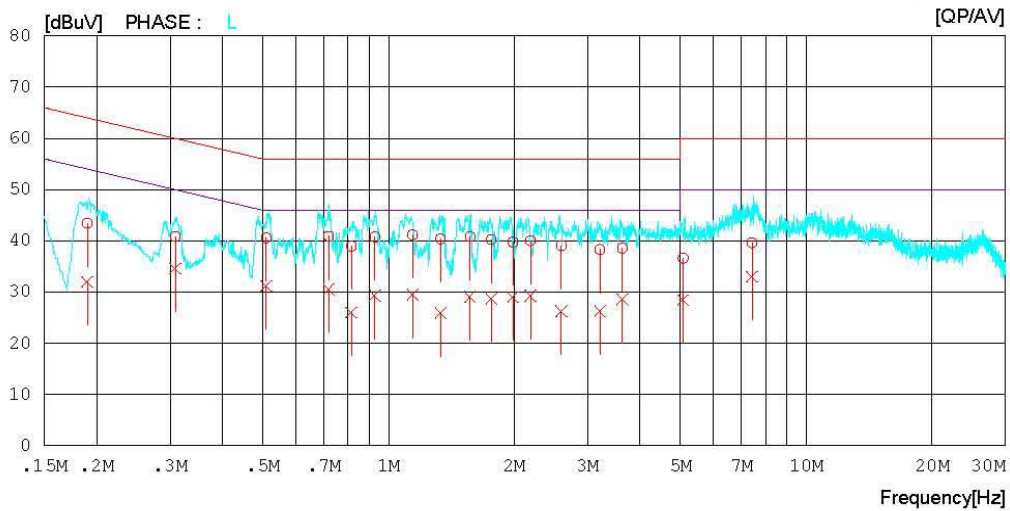
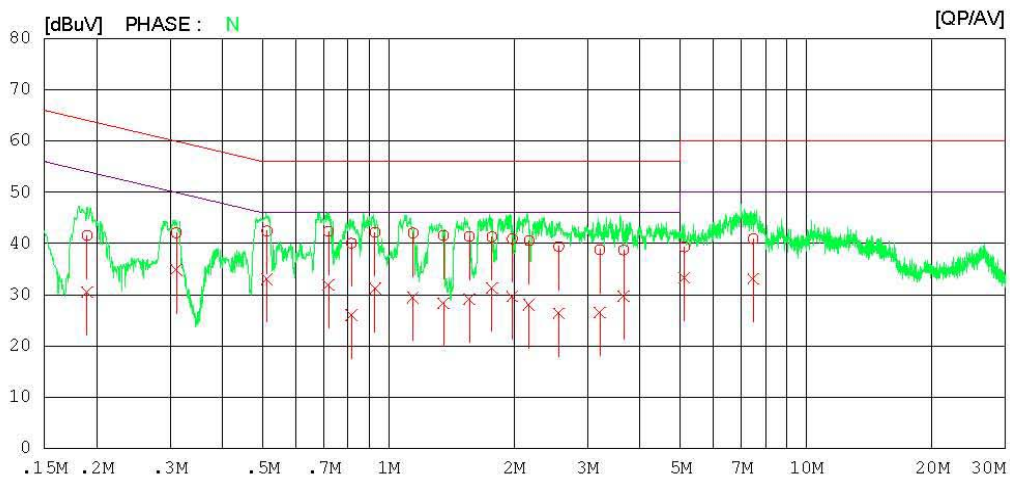


Results of Conducted Emission

Digital EMC
Date : 2013-02-14

Model No.	: 55LN5750-UH	Reference No.	:
Type	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi.	: 20 °C 37 % R.H
Test Condition	: HDMI	Operator	:

Memo :
LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2013-02-14

Model No. :	55LN5750-UH	Reference No. :	
Type :		Power Supply :	120 V 60 Hz
Serial No. :		Temp/Humi. :	20 °C 37 % R.H
Test Condition :	HDMI	Operator :	

Memo :

LIMIT : CISPR22_B QP
 CISPR22_B AV

NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18990	41.4	30.3	0.2	41.6	30.5	64.0	54.0	22.4	23.5	N
2	0.31050	41.9	34.6	0.2	42.1	34.8	60.0	50.0	17.9	15.2	N
3	0.51188	42.2	32.8	0.2	42.4	33.0	56.0	46.0	13.6	13.0	N
4	0.71866	42.1	31.7	0.2	42.3	31.9	56.0	46.0	13.7	14.1	N
5	0.81521	39.8	25.9	0.2	40.0	26.1	56.0	46.0	16.0	19.9	N
6	0.92898	41.9	31.0	0.2	42.1	31.2	56.0	46.0	13.9	14.8	N
7	1.14500	41.7	29.2	0.3	42.0	29.5	56.0	46.0	14.0	16.5	N
8	1.35400	41.2	28.1	0.3	41.5	28.4	56.0	46.0	14.5	17.6	N
9	1.56200	41.1	28.8	0.3	41.4	29.1	56.0	46.0	14.6	16.9	N
10	1.76850	41.0	31.0	0.3	41.3	31.3	56.0	46.0	14.7	14.7	N
11	1.97850	40.6	29.4	0.3	40.9	29.7	56.0	46.0	15.1	16.3	N
12	2.17150	40.2	27.7	0.3	40.5	28.0	56.0	46.0	15.5	18.0	N
13	2.55750	39.1	26.1	0.3	39.4	26.4	56.0	46.0	16.6	19.6	N
14	3.20600	38.5	26.2	0.3	38.8	26.5	56.0	46.0	17.2	19.5	N
15	3.65350	38.4	29.4	0.3	38.7	29.7	56.0	46.0	17.3	16.3	N
16	5.11100	38.9	32.9	0.4	39.3	33.3	60.0	50.0	20.7	16.7	N
17	7.47300	40.4	32.6	0.5	40.9	33.1	60.0	50.0	19.1	16.9	N
18	0.19001	43.2	31.8	0.2	43.4	32.0	64.0	54.0	20.6	22.0	L
19	0.30899	40.7	34.4	0.2	40.9	34.6	60.0	50.0	19.1	15.4	L
20	0.50938	40.4	31.0	0.2	40.6	31.2	56.0	46.0	15.4	14.8	L
21	0.71954	40.7	30.4	0.2	40.9	30.6	56.0	46.0	15.1	15.4	L
22	0.81510	38.7	25.9	0.2	38.9	26.1	56.0	46.0	17.1	19.9	L
23	0.92740	40.6	29.1	0.2	40.8	29.3	56.0	46.0	15.2	16.7	L
24	1.14250	40.9	29.2	0.3	41.2	29.5	56.0	46.0	14.8	16.5	L
25	1.33300	40.1	25.6	0.3	40.4	25.9	56.0	46.0	15.6	20.1	L
26	1.56750	40.5	28.8	0.3	40.8	29.1	56.0	46.0	15.2	16.9	L
27	1.76250	40.0	28.4	0.3	40.3	28.7	56.0	46.0	15.7	17.3	L
28	1.98750	39.5	28.7	0.3	39.8	29.0	56.0	46.0	16.2	17.0	L
29	2.18650	39.7	29.0	0.3	40.0	29.3	56.0	46.0	16.0	16.7	L
30	2.59300	38.7	26.0	0.3	39.0	26.3	56.0	46.0	17.0	19.7	L
31	3.20800	38.0	26.0	0.3	38.3	26.3	56.0	46.0	17.7	19.7	L
32	3.63150	38.3	28.3	0.3	38.6	28.6	56.0	46.0	17.4	17.4	L
33	5.07600	36.2	28.1	0.4	36.6	28.5	60.0	50.0	23.4	21.5	L
34	7.42000	39.1	32.5	0.5	39.6	33.0	60.0	50.0	20.4	17.0	L

< USB MODE >



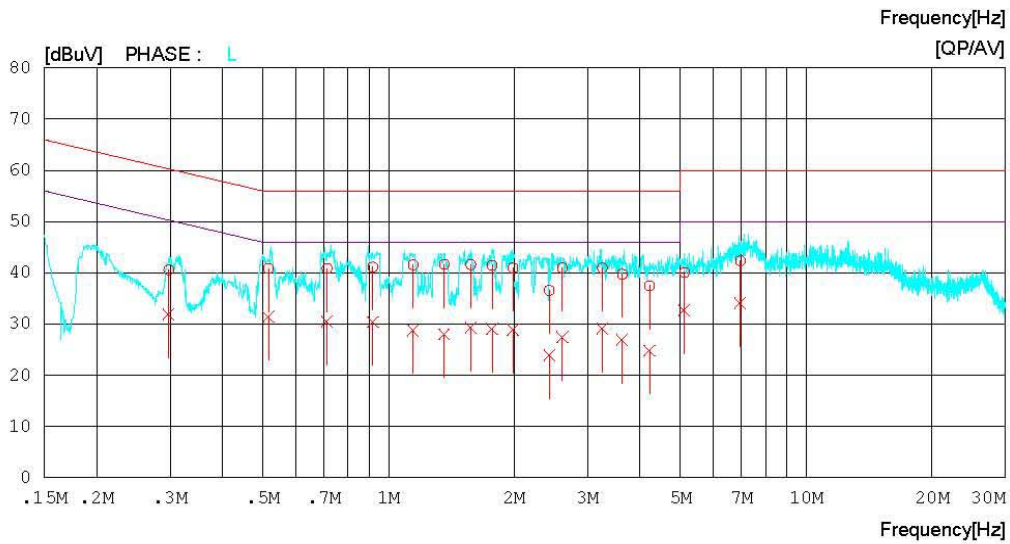
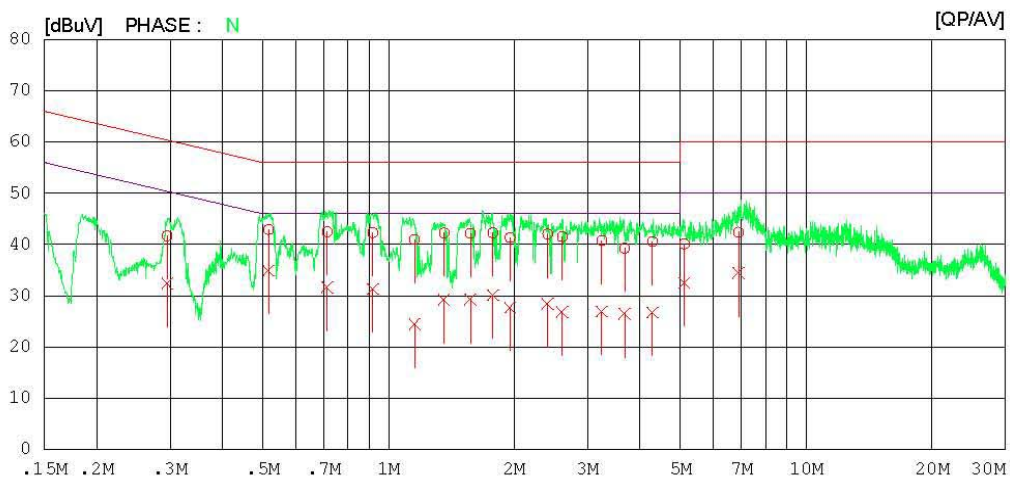
Results of Conducted Emission

Digital EMC
Date : 2013-02-14

Model No.	: 55LN5750-UH	Reference No.	:
Type	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi.	: 20 °C 37 % R.H
Test Condition	: USB	Operator	:

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2013-02-14

Model No. : 55LN5750-UH	Reference No. :
Type :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi. : 20 °C 37 % R.H
Test Condition : USB	Operator :

Memo :

LIMIT : CISPR22_B QP
 CISPR22_B AV

NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.29531	41.5	32.2	0.2	41.7	32.4	60.4	50.4	18.7	18.0	N
2	0.51650	42.7	34.7	0.2	42.9	34.9	56.0	46.0	13.1	11.1	N
3	0.71370	42.3	31.4	0.2	42.5	31.6	56.0	46.0	13.5	14.4	N
4	0.91711	42.1	31.1	0.2	42.3	31.3	56.0	46.0	13.7	14.7	N
5	1.15500	40.6	24.2	0.3	40.9	24.5	56.0	46.0	15.1	21.5	N
6	1.35900	41.9	28.9	0.3	42.2	29.2	56.0	46.0	13.8	16.8	N
7	1.57200	41.8	29.0	0.3	42.1	29.3	56.0	46.0	13.9	16.7	N
8	1.77850	42.0	29.8	0.3	42.3	30.1	56.0	46.0	13.7	15.9	N
9	1.95500	41.0	27.4	0.3	41.3	27.7	56.0	46.0	14.7	18.3	N
10	2.40450	41.7	28.1	0.3	42.0	28.4	56.0	46.0	14.0	17.6	N
11	2.60600	41.2	26.5	0.3	41.5	26.8	56.0	46.0	14.5	19.2	N
12	3.23800	40.5	26.6	0.3	40.8	26.9	56.0	46.0	15.2	19.1	N
13	3.67550	39.0	26.1	0.3	39.3	26.4	56.0	46.0	16.7	19.6	N
14	4.28600	40.2	26.4	0.3	40.5	26.7	56.0	46.0	15.5	19.3	N
15	5.10850	39.7	32.1	0.4	40.1	32.5	60.0	50.0	19.9	17.5	N
16	6.88600	41.9	33.9	0.5	42.4	34.4	60.0	50.0	17.6	15.6	N
17	0.29764	40.4	31.7	0.2	40.6	31.9	60.3	50.3	19.7	18.4	L
18	0.51586	40.6	31.3	0.2	40.8	31.5	56.0	46.0	15.2	14.5	L
19	0.71306	40.7	30.3	0.2	40.9	30.5	56.0	46.0	15.1	15.5	L
20	0.91710	40.9	30.2	0.2	41.1	30.4	56.0	46.0	14.9	15.6	L
21	1.14550	41.3	28.5	0.3	41.6	28.8	56.0	46.0	14.4	17.2	L
22	1.35950	41.3	27.8	0.3	41.6	28.1	56.0	46.0	14.4	17.9	L
23	1.57400	41.3	29.0	0.3	41.6	29.3	56.0	46.0	14.4	16.7	L
24	1.77050	41.2	28.8	0.3	41.5	29.1	56.0	46.0	14.5	16.9	L
25	1.98600	40.7	28.6	0.3	41.0	28.9	56.0	46.0	15.0	17.1	L
26	2.42650	36.3	23.6	0.3	36.6	23.9	56.0	46.0	19.4	22.1	L
27	2.60800	40.7	27.2	0.3	41.0	27.5	56.0	46.0	15.0	18.5	L
28	3.25200	40.6	28.8	0.3	40.9	29.1	56.0	46.0	15.1	16.9	L
29	3.62750	39.4	26.6	0.3	39.7	26.9	56.0	46.0	16.3	19.1	L
30	4.21850	37.2	24.5	0.3	37.5	24.8	56.0	46.0	18.5	21.2	L
31	5.11300	39.7	32.3	0.4	40.1	32.7	60.0	50.0	19.9	17.3	L
32	6.95450	41.9	33.6	0.5	42.4	34.1	60.0	50.0	17.6	15.9	L

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	5 th 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 (dB μ V/m)	Quasi-peak (dB μ V/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 (dB μ V/m)	Quasi-peak (dB μ V/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 (dB μ V/m)	Average (dB μ V/m)	Peak (dB μ V/m)	Average (dB μ V/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 >

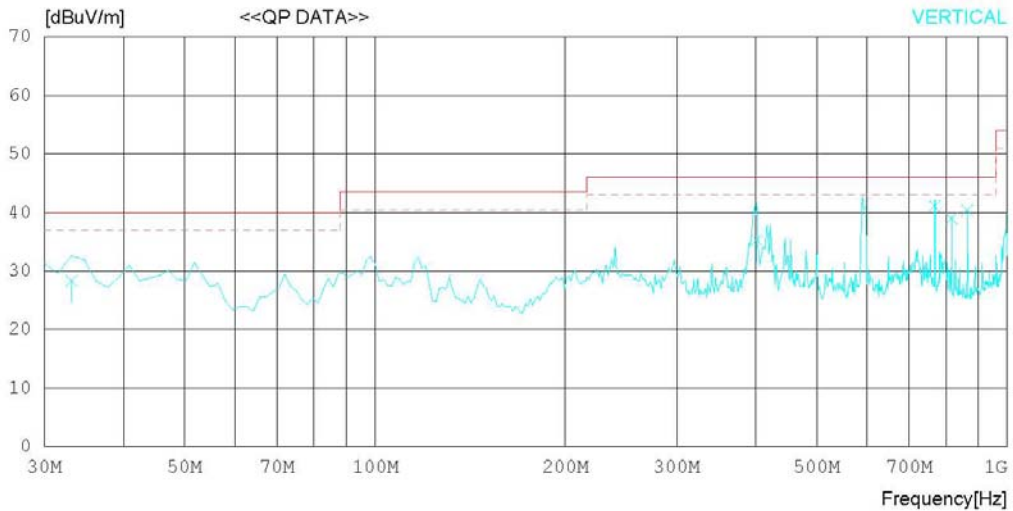
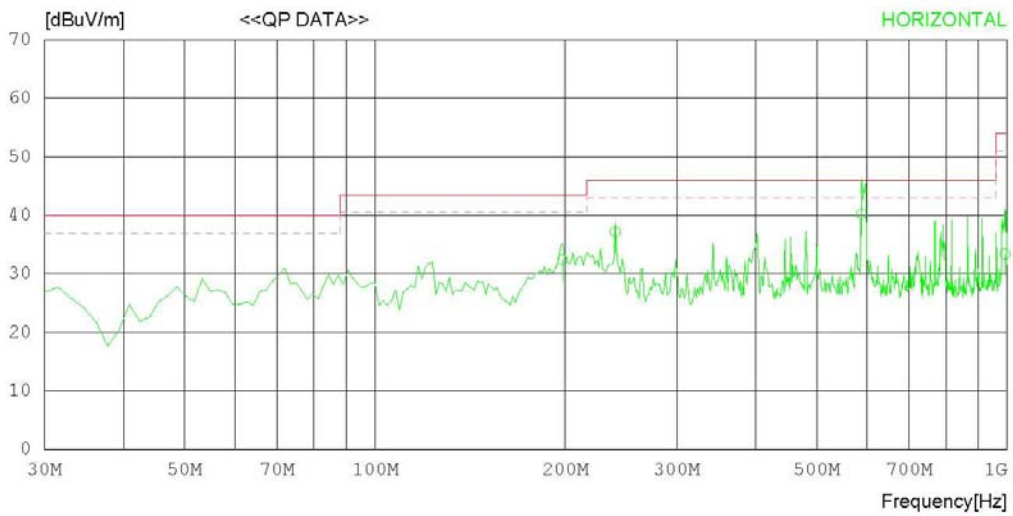
RADIATED EMISSION

Date : 2013-02-14

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 22 °C 38 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2013-02-14

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 22 °C 38 % 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	197.885	44.4	9.7	2.3	24.0	32.4	43.5	11.1	100	240
2	239.856	46.4	12.1	2.5	23.8	37.2	46.0	8.8	100	358
3	588.060	41.0	18.5	4.1	23.4	40.2	46.0	5.8	100	209
4	992.231	28.6	22.1	5.4	22.7	33.4	54.0	20.6	100	358
----- Vertical -----										
5	33.109	34.9	16.3	1.0	23.9	28.3	40.0	11.7	100	1
6	401.522	39.2	16.1	3.5	23.5	35.3	46.0	10.7	100	1
7	768.382	40.5	19.5	4.7	23.6	41.1	46.0	4.9	100	1
8	816.572	37.5	20.1	4.8	23.4	39.0	46.0	7.0	149	358
9	864.762	38.2	20.5	4.9	23.2	40.4	46.0	5.6	100	1

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

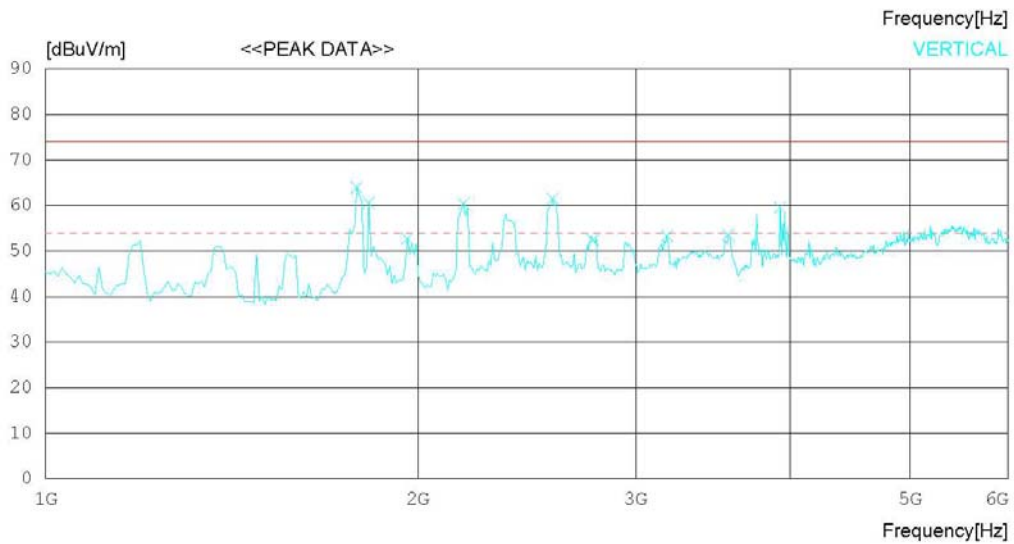
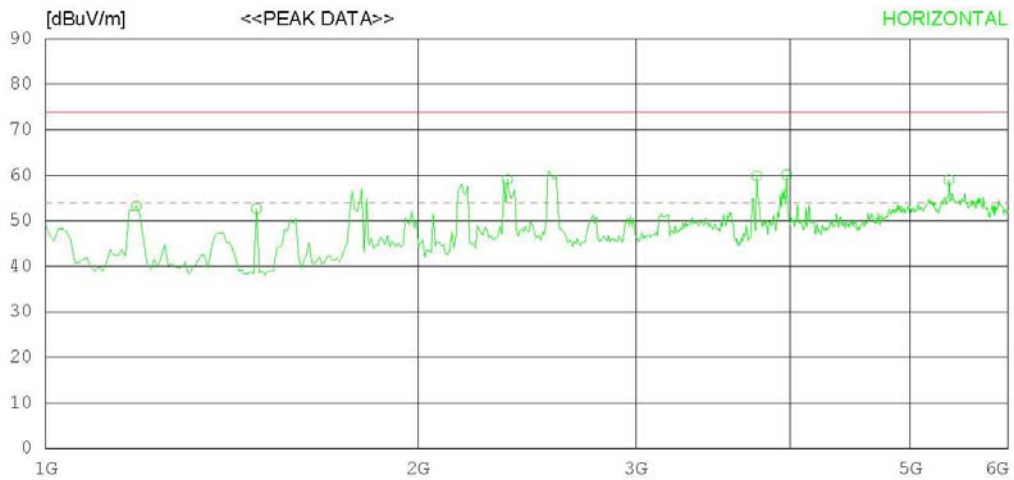
RADIATED EMISSION

Date : 2013-02-14

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % 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 : 2013-02-14

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 37 % 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	1184.295	51.2	24.2	6.4	28.5	53.3	74.0	20.7	100	202
2	1480.769	49.2	24.6	7.4	28.5	52.7	74.0	21.3	100	235
3	2362.184	51.7	26.7	9.2	28.5	59.1	74.0	14.9	100	158
4	3756.435	46.4	29.5	12.3	28.3	59.9	74.0	14.1	100	200
5	3972.785	45.4	30.1	12.9	28.3	60.1	74.0	13.9	100	217
6	5375.010	37.7	34.4	15.0	28.1	59.0	74.0	15	100	152
----- Vertical -----										
7	1785.256	59.9	24.6	8.0	28.5	64.0	74.0	10	100	1
8	1825.320	56.4	24.6	8.1	28.5	60.6	74.0	13.4	100	156
9	1961.538	48.3	24.6	8.4	28.5	52.8	74.0	21.2	100	197
10	2177.886	54.5	25.6	8.8	28.5	60.4	74.0	13.6	100	197
11	2570.520	52.5	27.7	9.7	28.4	61.5	74.0	12.5	100	1
12	2770.844	42.5	28.3	10.1	28.4	52.5	74.0	21.5	100	219
13	3179.504	41.9	28.9	10.9	28.4	53.3	74.0	20.7	100	1
14	3564.125	41.0	29.0	11.9	28.3	53.6	74.0	20.4	100	209
15	3924.707	45.1	30.0	12.8	28.3	59.6	74.0	14.4	100	224

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

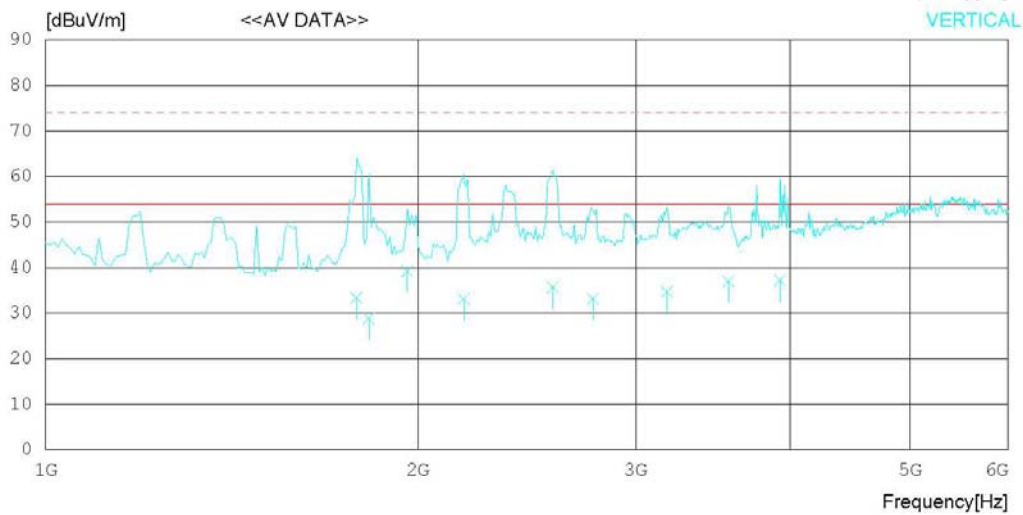
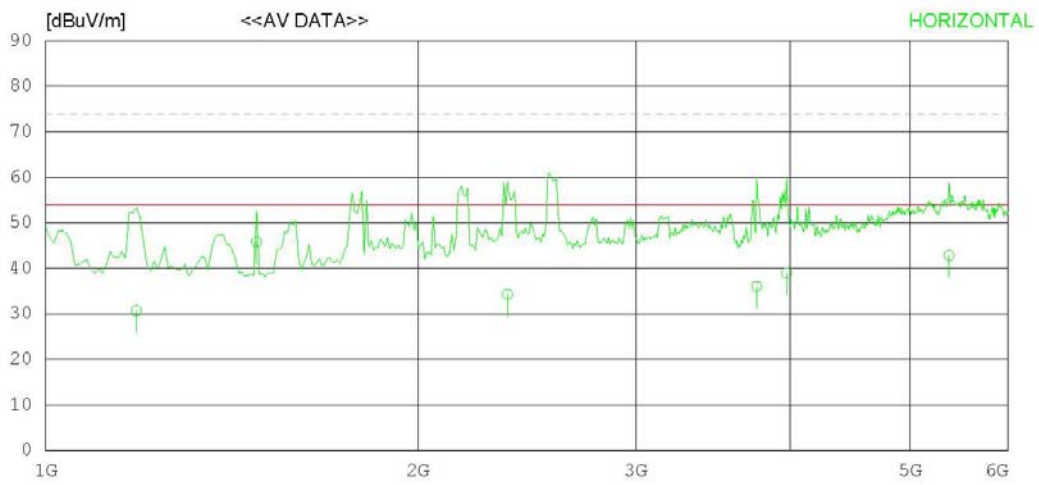
RADIATED EMISSION

Date : 2013-02-14

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % 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 : 2013-02-14

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 37 % 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	1184.295	28.6	24.2	6.4	28.5	30.7	54.0	23.3	100	202
2	1480.769	42.3	24.6	7.4	28.5	45.8	54.0	8.2	100	235
3	2362.184	26.9	26.7	9.2	28.5	34.3	54.0	19.7	100	158
4	3756.435	22.6	29.5	12.3	28.3	36.1	54.0	17.9	100	200
5	3972.785	24.2	30.1	12.9	28.3	38.9	54.0	15.1	100	217
6	5375.010	21.5	34.4	15.0	28.1	42.8	54.0	11.2	100	152
----- Vertical -----										
7	1785.256	29.3	24.6	8.0	28.5	33.4	54.0	20.6	100	1
8	1825.320	24.6	24.6	8.1	28.5	28.8	54.0	25.2	100	156
9	1961.538	34.8	24.6	8.4	28.5	39.3	54.0	14.7	100	197
10	2177.886	27.2	25.6	8.8	28.5	33.1	54.0	20.9	100	197
11	2570.520	26.7	27.7	9.7	28.4	35.7	54.0	18.3	100	1
12	2770.844	23.2	28.3	10.1	28.4	33.2	54.0	20.8	100	219
13	3179.504	23.3	28.9	10.9	28.4	34.7	54.0	19.3	100	1
14	3564.125	24.4	29.0	11.9	28.3	37.0	54.0	17.0	100	209
15	3924.707	22.7	30.0	12.8	28.3	37.2	54.0	16.8	100	224

< USB MODE_30 MHz ~ 1 GHz >

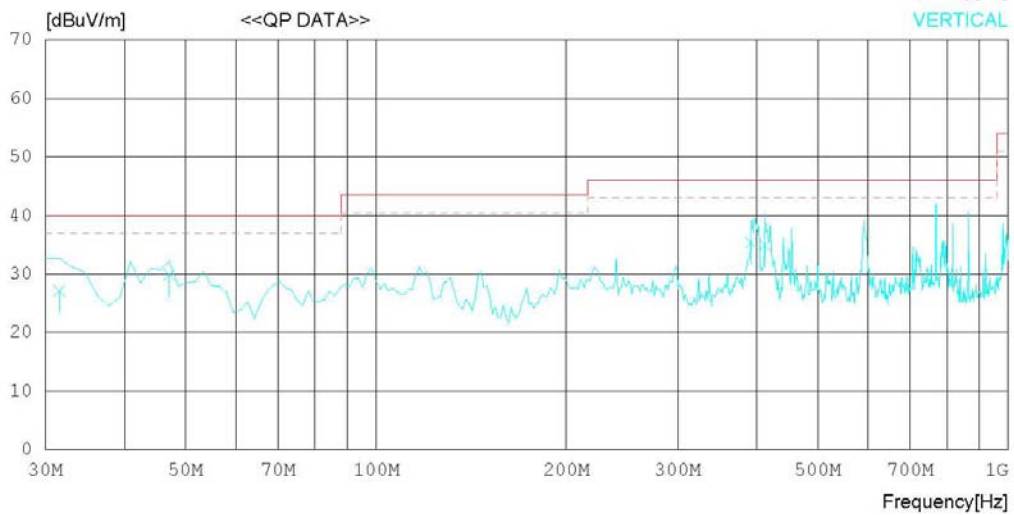
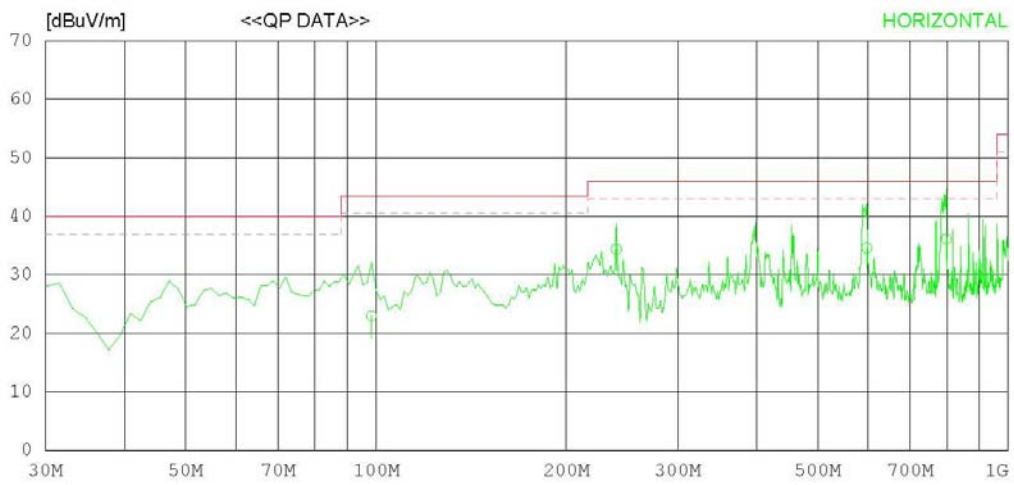
RADIATED EMISSION

Date : 2013-02-14

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 22 °C 38 % R.H.
Test Condition	: USB	Operator	:

Memo :

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



RADIATED EMISSION

Date : 2013-02-14

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 22 °C 38 % 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	98.398	35.3	10.4	1.4	24.1	23.0	43.5	20.5	289	226
2	239.856	43.6	12.1	2.5	23.8	34.4	46.0	11.6	100	1
3	597.387	35.2	18.7	4.1	23.4	34.6	46.0	11.4	211	127
4	797.918	34.8	20.0	4.8	23.5	36.1	46.0	9.9	178	0
----- Vertical -----										
5	31.554	33.0	17.1	0.9	23.8	27.2	40.0	12.8	213	139
6	47.099	41.5	11.5	1.2	24.3	29.9	40.0	10.1	100	358
7	392.195	39.5	15.9	3.5	23.5	35.4	46.0	10.6	100	358
8	412.403	38.8	16.2	3.5	23.5	35.0	46.0	11.0	100	358

RADIATED EMISSION

Date : 2013-02-14

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 37 % 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	1592.948	52.7	24.6	7.7	28.5	56.5	74.0	17.5	100	358
2	1977.564	61.3	24.6	8.4	28.5	65.8	74.0	8.2	100	194
3	2169.873	59.0	25.5	8.8	28.5	64.8	74.0	9.2	100	196
4	3580.151	43.7	29.1	11.9	28.3	56.4	74.0	17.6	100	223
5	3932.720	45.5	30.0	12.8	28.3	60.0	74.0	14	100	358
6	4117.017	39.4	30.3	13.1	28.3	54.5	74.0	19.5	100	358
----- Vertical -----										
7	1184.295	54.6	24.2	6.4	28.5	56.7	74.0	17.3	100	1
8	2370.197	58.1	26.7	9.3	28.5	65.6	74.0	8.4	100	1
9	2442.313	51.4	27.1	9.4	28.5	59.4	74.0	14.6	100	1
10	2570.520	53.9	27.7	9.7	28.4	62.9	74.0	11.1	100	1
11	2634.624	48.6	27.9	9.8	28.4	57.9	74.0	16.1	100	226
12	2746.805	47.2	28.2	10.0	28.4	57.0	74.0	17	100	1
13	3772.461	41.9	29.6	12.4	28.3	55.6	74.0	18.4	100	1

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

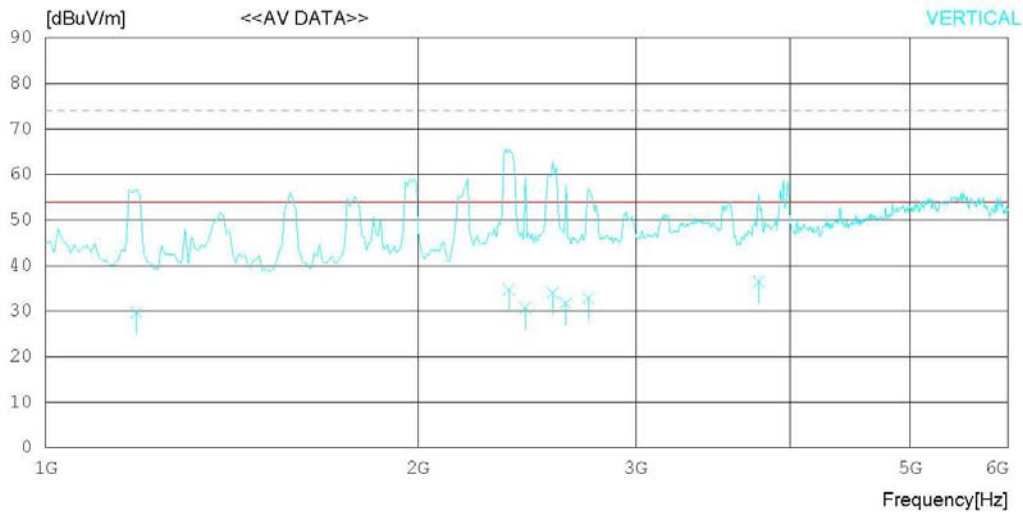
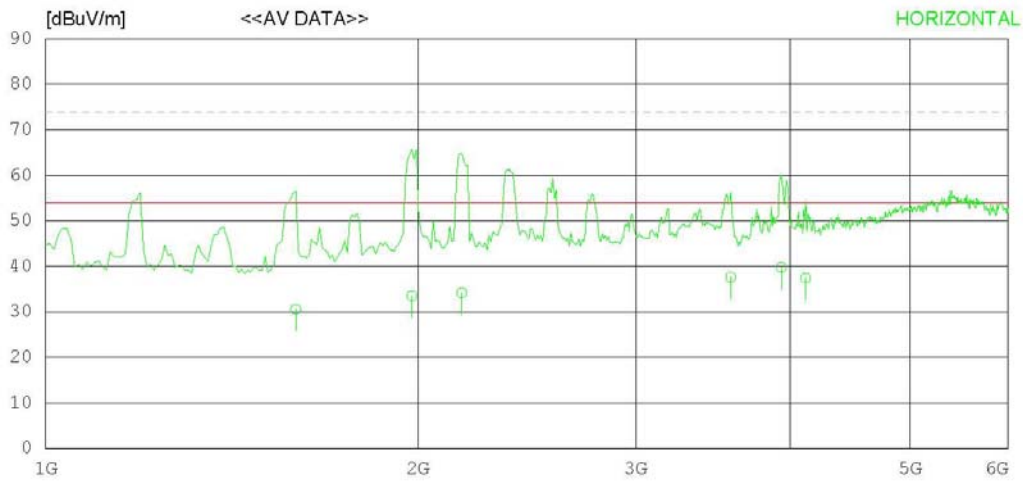
RADIATED EMISSION

Date : 2013-02-14

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 20 °C 37 % 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 : 2013-02-14

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 37 % 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	1592.948	26.8	24.6	7.7	28.5	30.6	54.0	23.4	100	358
2	1977.564	29.0	24.6	8.4	28.5	33.5	54.0	20.5	100	194
3	2169.873	28.4	25.5	8.8	28.5	34.2	54.0	19.8	100	196
4	3580.151	24.9	29.1	11.9	28.3	37.6	54.0	16.4	100	223
5	3932.720	25.3	30.0	12.8	28.3	39.8	54.0	14.2	100	358
6	4117.017	22.3	30.3	13.1	28.3	37.4	54.0	16.6	100	358
----- Vertical -----										
7	1184.295	27.6	24.2	6.4	28.5	29.7	54.0	24.3	100	1
8	2370.197	27.3	26.7	9.3	28.5	34.8	54.0	19.2	100	1
9	2442.313	22.7	27.1	9.4	28.5	30.7	54.0	23.3	100	1
10	2570.520	25.1	27.7	9.7	28.4	34.1	54.0	19.9	100	1
11	2634.624	22.4	27.9	9.8	28.4	31.7	54.0	22.3	100	226
12	2746.805	23.1	28.2	10.0	28.4	32.9	54.0	21.1	100	1
13	3772.461	22.7	29.6	12.4	28.3	36.4	54.0	17.6	100	1

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
<input type="checkbox"/> SPECTRUM ANALYZER	8591E	H/P	3649A05889	2012.03.05	2013.03.05
<input type="checkbox"/> RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2012.07.02	2013.07.02
<input type="checkbox"/> LISN	KNW-407	KYORITSU	8-317-8	2013.01.08	2014.01.08
<input type="checkbox"/> LISN	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2012.07.25	2013.07.25
<input type="checkbox"/> 50 OHM TERMINATOR	CT-01	TME	N/A	2013.01.08	2014.01.08
<input checked="" type="checkbox"/> EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
<input checked="" type="checkbox"/> LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2012.09.18	2013.09.18
<input checked="" type="checkbox"/> LISN	LISN1600	TTI	197204	2012.07.02	2013.07.02
<input checked="" type="checkbox"/> 50 OHM TERMINATOR	CT-01	TME	N/A	2013.01.08	2014.01.08

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
<input checked="" type="checkbox"/> EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2013.01.08	2014.01.08
<input checked="" type="checkbox"/> BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.11.06	2014.11.06
<input checked="" type="checkbox"/> HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2012.05.15	2014.05.15
<input checked="" type="checkbox"/> AMPLIFIER	8447E	H/P	2945A02865	2013.01.08	2014.01.08
<input checked="" type="checkbox"/> AMPLIFIER	MLA-100M18-B01-25	TSJ	1719458	2012.06.04	2013.06.04
<input type="checkbox"/> SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2012.07.11	2013.07.11
<input type="checkbox"/> AMPLIFIER	8447D	AGILENT	2443A03690	2012.07.01	2013.07.01
<input type="checkbox"/> EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
<input type="checkbox"/> BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2012.04.10	2014.04.10
<input type="checkbox"/> LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2012.04.10	2014.04.10
<input type="checkbox"/> BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2012.03.12	2014.03.12
<input type="checkbox"/> LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2012.03.12	2014.03.12
<input type="checkbox"/> AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2012.03.05	2013.03.05

Appendix 2

Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	N/A	N/A