

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 32LN5750-UH
Order No. : DEMC1302-00472
Date of receipt : 2013-02-04
Test duration : 2013-02-14
Use of report : FCC CoC Marking
Date of Issue : 2013-02-18

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 ~ 39) % 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.

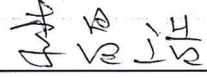
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Tested by:

Reviewed by:



Engineer
SeHyun 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.	32LN5750-UH
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ32LN5750UH
Type of Sample Tested	Pre-Production
High Frequency	790 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.3 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	60.020
1920 x 1080	67.5	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	22	39

4.3 Test result Summary

(1) Conducted Emission (HDMI MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.15615	L1	57.4	Quasi-Peak	65.7	8.3

(2) Radiated Emission (HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
597.653	H	42.0	Quasi-Peak	46.0	4.0

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

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	VOSTRO430	9K77SBX	DELL	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	1.8	Not use	Shield		
KEYBOARD	SKG-3000UB	TAKB60123 5V	MONITREY INTERNATIONAL CORP	USB	1.8	Not use	Shield	Plastic	DOC
MOUSE	1484	3527000213 72	MICROSOFT CORPORATION	USB	1.8	Not use	Shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS	POWER AV	1.8 1.6	Not use Not use	Non-shield Non-shield	Plastic	VER
USB MEMORY	Cruzer Z37	N/A	Sandisk	USB	-	-	-	-	DOC
PRINTER	SRP-770	SRP770080 60035	BICSOLON	POWER USB	1.8 1.8	Not use Not use	Non-shield	Plastic	DOC
Headset	COV903	N/A	COSY	STEREO	1.5	Not use	Non-shield	Plastic	DOC
Remote Control	AN-MR400K	N/A	OHSUNG ELECTRONIC	-	-	-	-	-	-

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 >



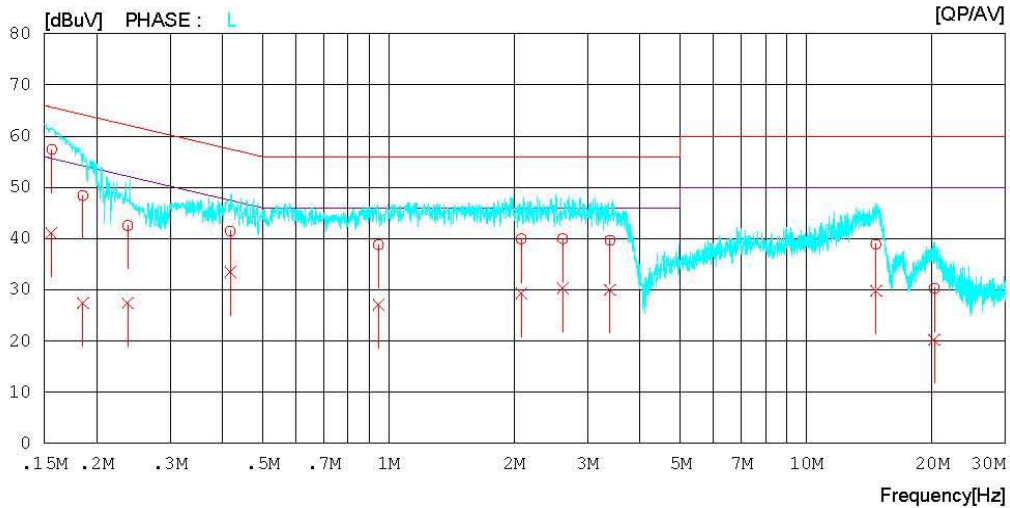
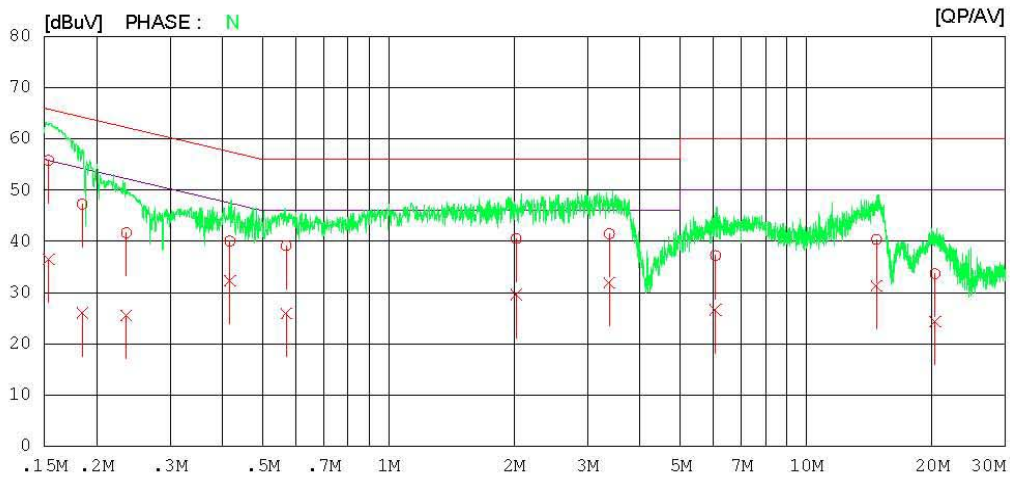
Results of Conducted Emission

Digital EMC
Date : 2013-02-14

Model No. : 32LN5750-UH
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20°C 37 % R.H
Operator :

Memo :
LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2013-02-14

Model No. : 32LN5750-UH
 Type :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120 V 60 Hz
 Temp/Humi. : 20 °C 37 % R.H
 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	0.15360	55.6	36.3	0.2	55.8	36.5	65.8	55.8	10.0	19.3	N
2	0.18495	47.1	25.8	0.2	47.3	26.0	64.3	54.3	17.0	28.3	N
3	0.23570	41.4	25.3	0.2	41.6	25.5	62.2	52.2	20.6	26.7	N
4	0.41750	39.8	32.1	0.2	40.0	32.3	57.5	47.5	17.5	15.2	N
5	0.56934	39.0	25.7	0.2	39.2	25.9	56.0	46.0	16.8	20.1	N
6	2.02200	40.2	29.3	0.3	40.5	29.6	56.0	46.0	15.5	16.4	N
7	3.38000	41.2	31.6	0.3	41.5	31.9	56.0	46.0	14.5	14.1	N
8	6.06250	36.7	26.2	0.5	37.2	26.7	60.0	50.0	22.8	23.3	N
9	14.74150	39.6	30.5	0.8	40.4	31.3	60.0	50.0	19.6	18.7	N
10	20.34000	32.8	23.4	0.9	33.7	24.3	60.0	50.0	26.3	25.7	N
11	0.15615	57.2	40.9	0.2	57.4	41.1	65.7	55.7	8.3	14.6	L
12	0.18554	48.2	27.2	0.2	48.4	27.4	64.2	54.2	15.8	26.8	L
13	0.23769	42.4	27.2	0.2	42.6	27.4	62.2	52.2	19.6	24.8	L
14	0.41806	41.3	33.3	0.2	41.5	33.5	57.5	47.5	16.0	14.0	L
15	0.94650	38.6	26.9	0.2	38.8	27.1	56.0	46.0	17.2	18.9	L
16	2.08100	39.6	29.0	0.3	39.9	29.3	56.0	46.0	16.1	16.7	L
17	2.61200	39.7	30.0	0.3	40.0	30.3	56.0	46.0	16.0	15.7	L
18	3.38900	39.4	29.7	0.3	39.7	30.0	56.0	46.0	16.3	16.0	L
19	14.69100	38.1	29.0	0.8	38.9	29.8	60.0	50.0	21.1	20.2	L
20	20.26000	29.4	19.4	0.9	30.3	20.3	60.0	50.0	29.7	29.7	L

< USB MODE >



Results of Conducted Emission

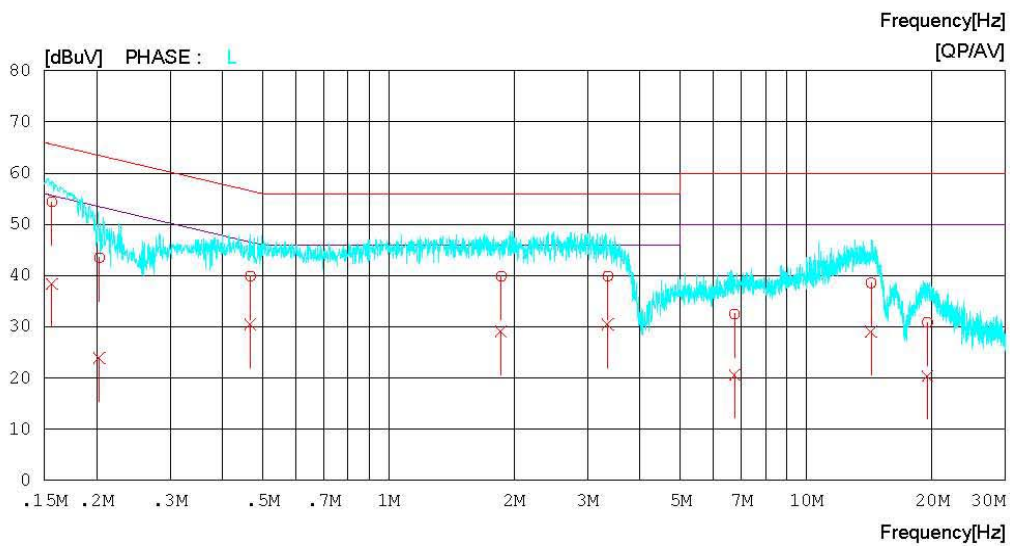
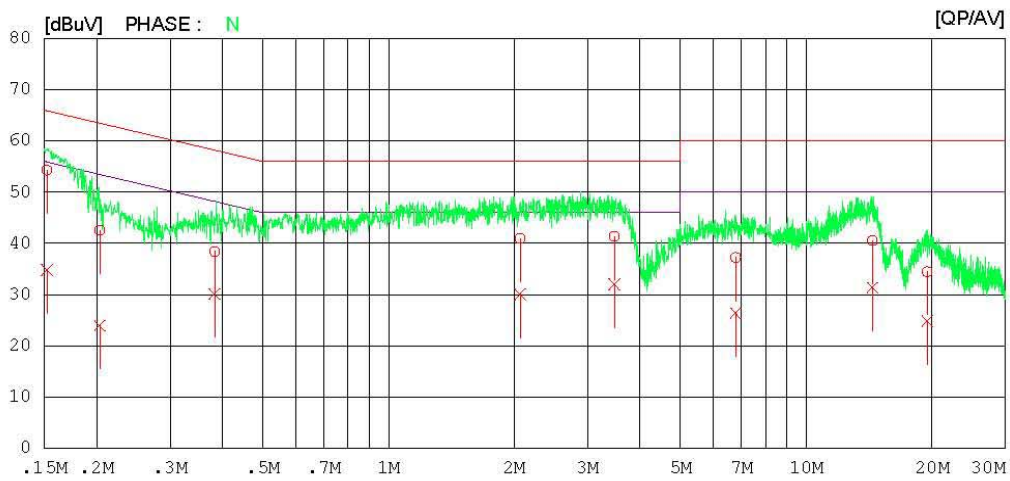
Digital EMC
Date : 2013-02-14

Model No. : 32LN5750-UH
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20°C 37 % R.H
Operator :

Memo :

LIMIT : CISPR22_B_QP
CISPR22_B_AV



Results of Conducted Emission

Digital EMC
 Date : 2013-02-14

Model No. : 32LN5750-UH
 Type :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120 V 60 Hz
 Temp/Humi. : 20 °C 37 % R.H
 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	0.15220	54.0	34.6	0.2	54.2	34.8	65.9	55.9	11.7	21.1	N
2	0.20364	42.4	23.8	0.2	42.6	24.0	63.5	53.5	20.9	29.5	N
3	0.38374	38.2	29.9	0.2	38.4	30.1	58.2	48.2	19.8	18.1	N
4	2.06500	40.6	29.7	0.3	40.9	30.0	56.0	46.0	15.1	16.0	N
5	3.47450	41.0	31.7	0.3	41.3	32.0	56.0	46.0	14.7	14.0	N
6	6.78450	36.7	25.8	0.5	37.2	26.3	60.0	50.0	22.8	23.7	N
7	14.41600	39.8	30.6	0.7	40.5	31.3	60.0	50.0	19.5	18.7	N
8	19.49350	33.6	23.9	0.9	34.5	24.8	60.0	50.0	25.5	25.2	N
9	0.15633	54.2	38.1	0.2	54.4	38.3	65.7	55.7	11.3	17.4	L
10	0.20328	43.3	23.7	0.2	43.5	23.9	63.5	53.5	20.0	29.6	L
11	0.46700	39.7	30.3	0.2	39.9	30.5	56.6	46.6	16.7	16.1	L
12	1.86150	39.6	28.8	0.3	39.9	29.1	56.0	46.0	16.1	16.9	L
13	3.35200	39.6	30.2	0.3	39.9	30.5	56.0	46.0	16.1	15.5	L
14	6.74250	32.0	20.1	0.5	32.5	20.6	60.0	50.0	27.5	29.4	L
15	14.30500	37.9	28.4	0.7	38.6	29.1	60.0	50.0	21.4	20.9	L
16	19.51350	30.0	19.5	0.9	30.9	20.4	60.0	50.0	29.1	29.6	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

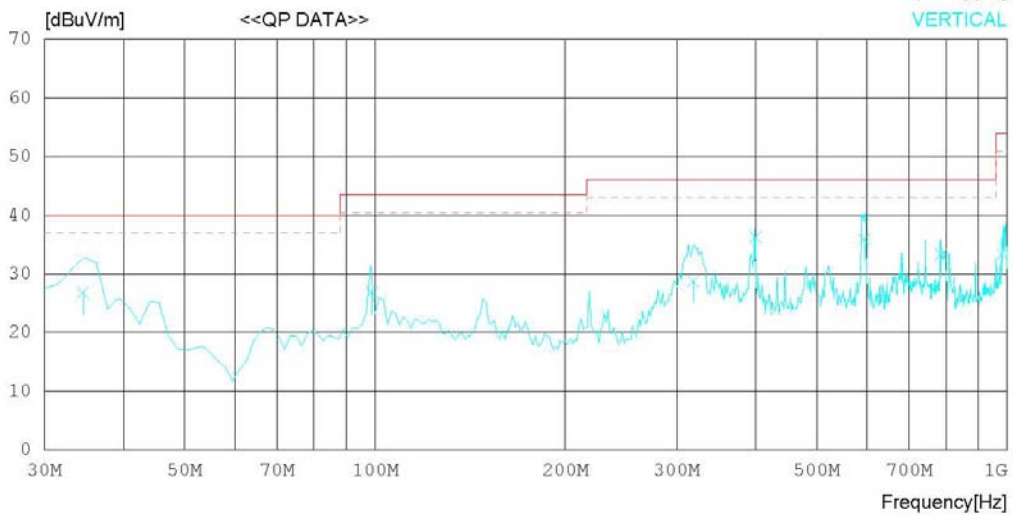
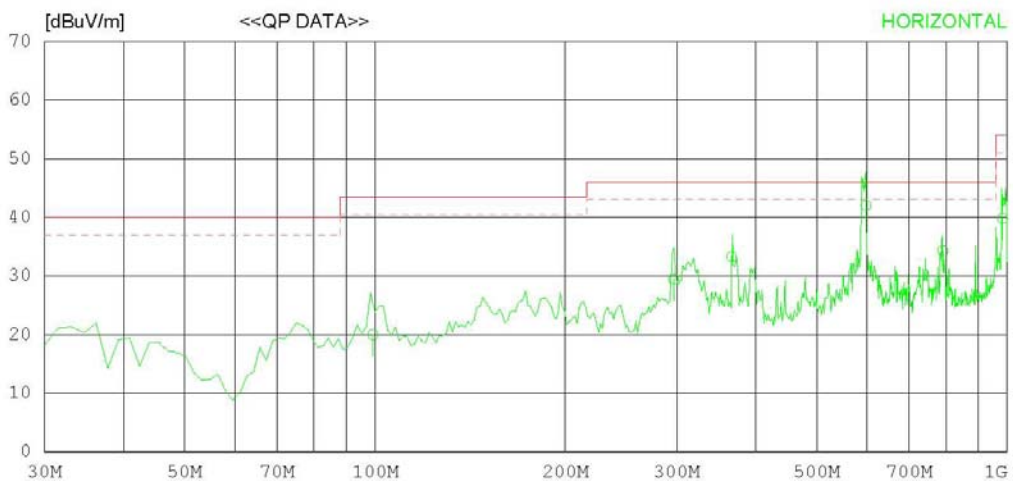
Date : 2013-02-14

Model Name : 32LN5750-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 22 °C 39 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-02-14

Model Name : 32LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 22 °C 39 % 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	99.189	32.2	10.5	1.4	24.1	20.0	43.5	23.5	400	159
2	296.758	36.6	13.7	2.8	23.6	29.5	46.0	16.5	100	148
3	366.518	38.2	15.3	3.4	23.6	33.3	46.0	12.7	100	154
4	597.653	42.6	18.7	4.1	23.4	42.0	46.0	4.0	199	136
5	791.065	33.1	19.9	4.8	23.5	34.3	46.0	11.7	400	132
6	983.231	35.2	22.0	5.4	22.8	39.8	54.0	14.2	400	151
----- Vertical -----										
7	34.519	34.2	15.5	1.0	23.9	26.8	40.0	13.2	100	142
8	98.814	39.1	10.5	1.4	24.1	26.9	43.5	16.6	400	138
9	318.916	35.2	14.2	3.0	23.6	28.8	46.0	17.2	301	155
10	400.039	40.3	16.0	3.5	23.5	36.3	46.0	9.7	400	149
11	594.159	36.6	18.6	4.1	23.4	35.9	46.0	10.1	100	133
12	785.511	32.2	19.8	4.8	23.5	33.3	46.0	12.7	199	147
13	983.369	28.8	22.0	5.4	22.8	33.4	54.0	20.6	100	142

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

RADIATED EMISSION

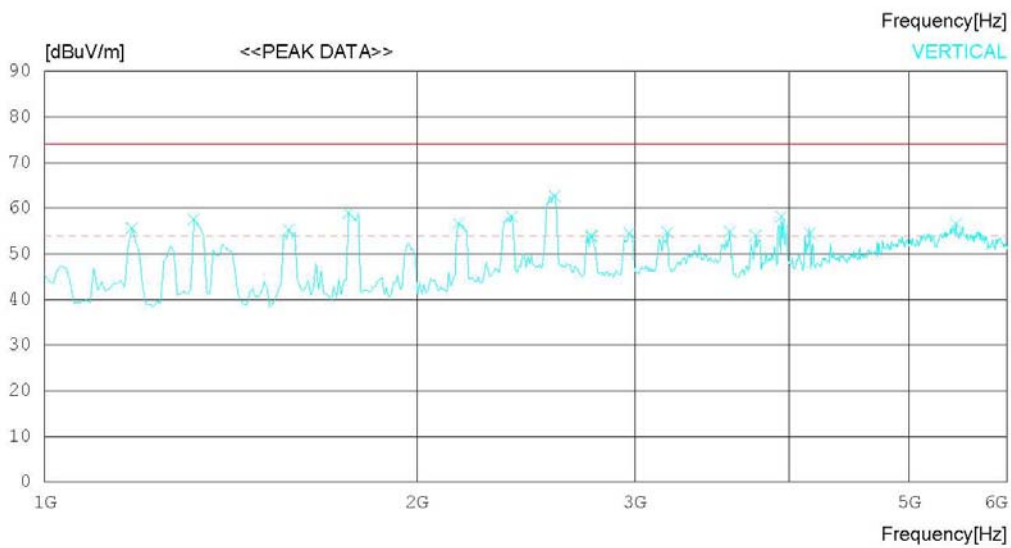
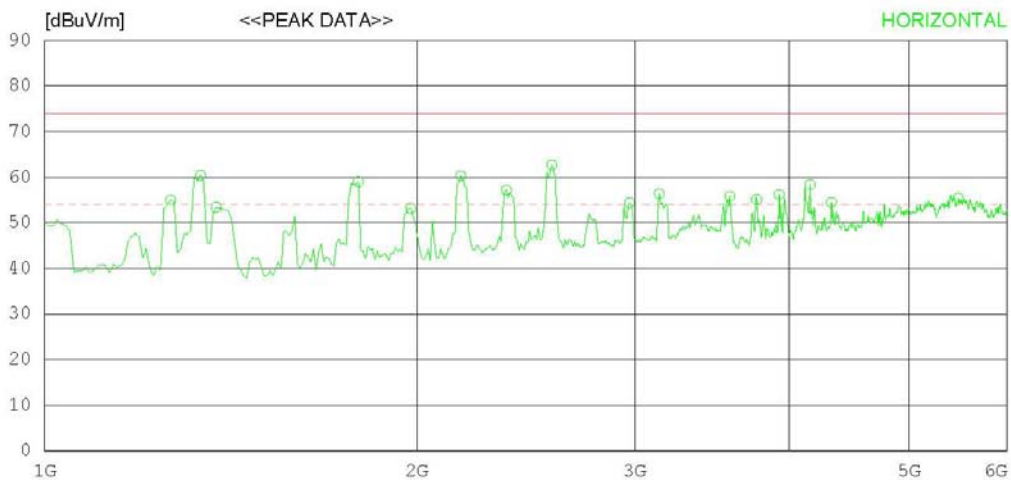
Date : 2013-02-14

Model Name : 32LN5750-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 22 °C 39 % R.H.
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 : 32LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 22 °C 39 % 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	1264.423	52.5	24.3	6.7	28.5	55.0	74.0	19	100	358
2	1336.538	57.6	24.4	6.9	28.5	60.4	74.0	13.6	100	234
3	1376.602	50.3	24.5	7.1	28.5	53.4	74.0	20.6	100	358
4	1793.269	54.8	24.6	8.1	28.5	59.0	74.0	15	100	358
5	1977.564	48.7	24.6	8.4	28.5	53.2	74.0	20.8	100	358
6	2169.873	54.5	25.5	8.8	28.5	60.3	74.0	13.7	100	358
7	2362.184	49.8	26.7	9.2	28.5	57.2	74.0	16.8	100	197
8	2570.520	53.7	27.7	9.7	28.4	62.7	74.0	11.3	100	358
9	2971.167	43.4	28.9	10.5	28.4	54.4	74.0	19.6	100	358
10	3139.439	45.0	29.0	10.8	28.4	56.4	74.0	17.6	100	358
11	3580.151	43.1	29.1	11.9	28.3	55.8	74.0	18.2	100	240
12	3764.448	41.4	29.6	12.4	28.3	55.1	74.0	18.9	100	358
13	3924.707	41.7	30.0	12.8	28.3	56.2	74.0	17.8	100	358
14	4157.081	43.2	30.4	13.1	28.3	58.4	74.0	15.6	100	201
15	4325.347	38.8	30.6	13.3	28.2	54.5	74.0	19.5	100	358
16	5479.175	33.6	35.0	14.9	28.1	55.4	74.0	18.6	100	201
----- Vertical -----										
17	1176.282	53.6	24.1	6.4	28.5	55.6	74.0	18.4	100	189
18	1320.513	54.8	24.4	6.9	28.5	57.6	74.0	16.4	100	206
19	1576.923	51.6	24.6	7.6	28.5	55.3	74.0	18.7	100	180
20	1761.218	54.9	24.6	8.0	28.5	59.0	74.0	15	100	1
21	2161.860	50.8	25.5	8.8	28.5	56.6	74.0	17.4	100	1
22	2386.223	50.6	26.8	9.3	28.5	58.2	74.0	15.8	100	1
23	2586.546	53.7	27.7	9.7	28.4	62.7	74.0	11.3	100	186
24	2762.831	43.9	28.3	10.0	28.4	53.8	74.0	20.2	100	1
25	2770.844	43.8	28.3	10.1	28.4	53.8	74.0	20.2	100	211
26	2971.167	43.5	28.9	10.5	28.4	54.5	74.0	19.5	100	1
27	3187.517	43.2	28.9	11.0	28.4	54.7	74.0	19.3	100	226
28	3580.151	42.1	29.1	11.9	28.3	54.8	74.0	19.2	100	217
29	3756.435	40.5	29.5	12.3	28.3	54.0	74.0	20	100	217
30	3940.733	43.7	30.0	12.8	28.3	58.2	74.0	15.8	100	217
31	4157.081	39.4	30.4	13.1	28.3	54.6	74.0	19.4	100	1
32	5455.137	35.0	34.8	14.9	28.1	56.6	74.0	17.4	100	1

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

RADIATED EMISSION

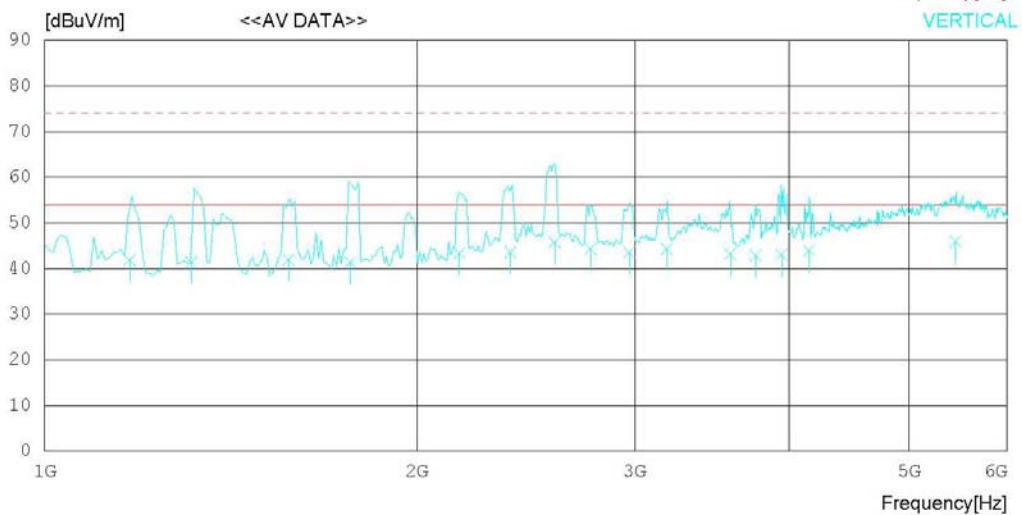
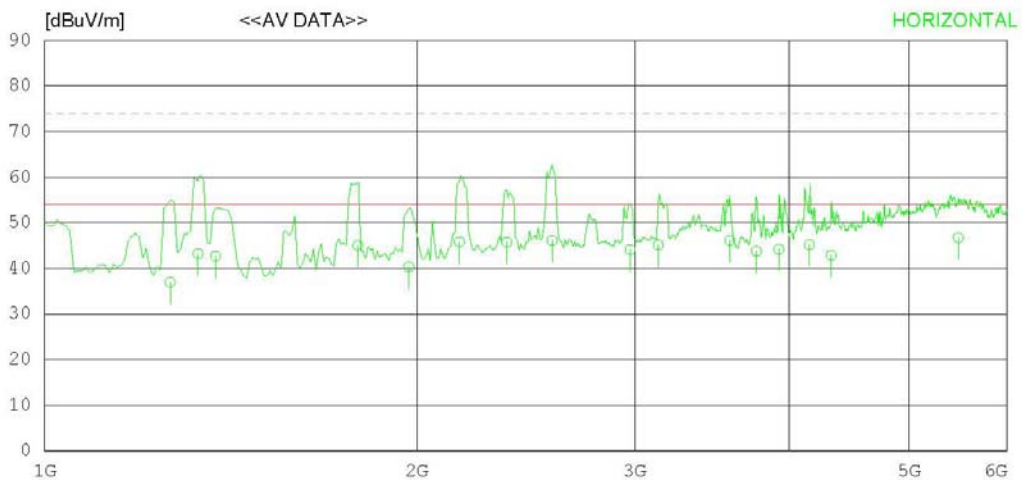
Date : 2013-02-14

Model Name : 32LN5750-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 22 °C 39 % R.H.
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 : 32LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 22 °C 39 % 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	1263.215	38.8	24.3	2.4	28.5	37.0	54.0	17.0	100	154
2	1330.620	41.3	24.4	6.0	28.5	43.2	54.0	10.8	100	144
3	1374.857	40.6	24.5	6.1	28.5	42.7	54.0	11.3	100	136
4	1791.169	41.8	24.6	7.1	28.5	45.0	54.0	9.0	100	149
5	1969.936	36.6	24.6	7.6	28.5	40.3	54.0	13.7	100	138
6	2164.528	40.9	25.5	7.9	28.5	45.8	54.0	8.2	100	146
7	2364.195	39.4	26.7	8.1	28.5	45.7	54.0	8.3	100	151
8	2572.309	38.4	27.7	8.4	28.4	46.1	54.0	7.9	100	152
9	2974.771	34.4	28.9	9.2	28.4	44.1	54.0	9.9	100	160
10	3135.074	35.0	29.0	9.5	28.4	45.1	54.0	8.9	100	146
11	3582.231	35.1	29.1	10.2	28.3	46.1	54.0	7.9	100	137
12	3761.409	32.2	29.5	10.4	28.3	43.8	54.0	10.2	100	132
13	3921.995	31.9	30.0	10.6	28.3	44.2	54.0	9.8	100	152
14	4151.302	32.0	30.4	11.1	28.3	45.2	54.0	8.8	100	159
15	4321.749	29.0	30.6	11.5	28.2	42.9	54.0	11.1	100	140
16	5478.175	26.3	35.0	13.5	28.1	46.7	54.0	7.3	100	134
----- Vertical -----										
17	1171.528	40.6	24.1	5.6	28.5	41.8	54.0	12.2	100	144
18	1314.518	39.6	24.4	5.9	28.5	41.4	54.0	12.6	100	136
19	1574.992	39.3	24.6	6.5	28.5	41.9	54.0	12.1	100	141
20	1766.239	38.2	24.6	7.0	28.5	41.3	54.0	12.7	100	152
21	2164.958	38.4	25.5	7.9	28.5	43.3	54.0	10.7	100	138
22	2381.680	37.2	26.8	8.1	28.5	43.6	54.0	10.4	100	139
23	2584.158	38.0	27.7	8.4	28.4	45.7	54.0	8.3	100	150
24	2764.218	35.6	28.3	8.8	28.4	44.3	54.0	9.7	100	147
25	2968.202	34.0	28.9	9.1	28.4	43.6	54.0	10.4	100	133
26	3184.158	34.2	28.9	9.6	28.4	44.3	54.0	9.7	100	154
27	3584.251	32.2	29.1	10.2	28.3	43.2	54.0	10.8	100	138
28	3757.695	31.2	29.5	10.4	28.3	42.8	54.0	11.2	100	145
29	3944.771	30.6	30.0	10.7	28.3	43.0	54.0	11.0	100	138
30	4151.693	30.8	30.4	11.1	28.3	44.0	54.0	10.0	100	142
31	5451.471	25.8	34.8	13.4	28.1	45.9	54.0	8.1	100	158

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

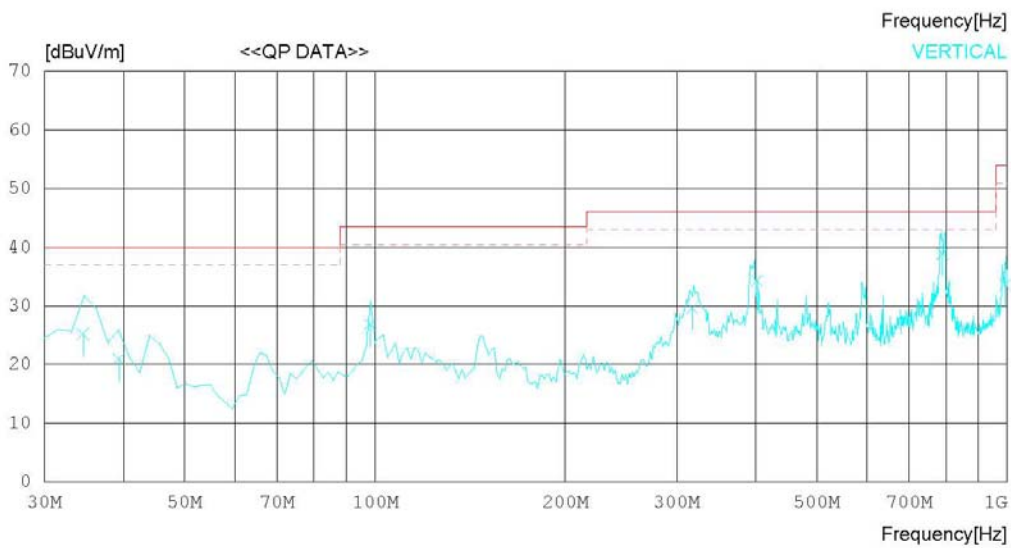
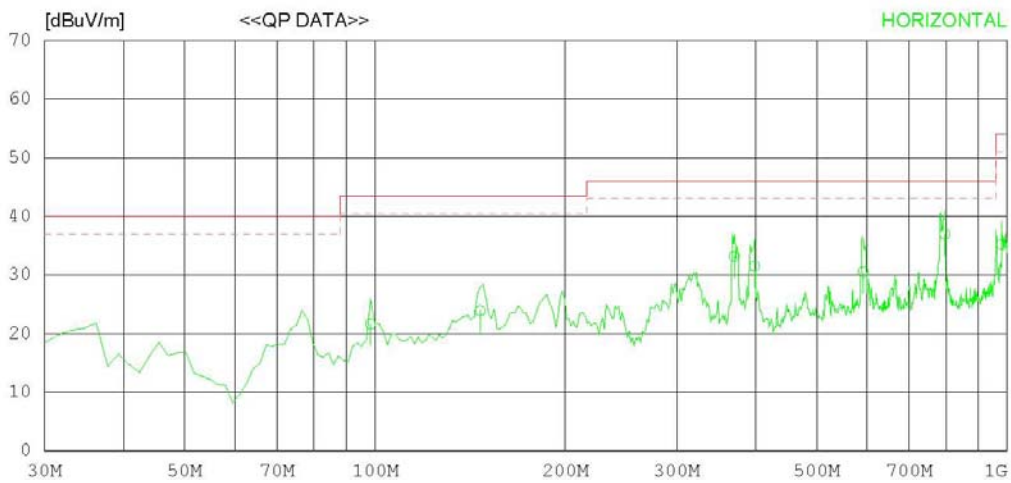
Date : 2013-02-14

Model Name : 32LN5750-UH
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 22 °C 39 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-02-14

Model Name : 32LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 22 °C 39 % 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	98.330	33.9	10.4	1.4	24.1	21.6	43.5	21.9	100	144
2	146.700	35.8	10.6	1.7	24.2	23.9	43.5	19.6	301	157
3	370.147	38.0	15.4	3.4	23.6	33.2	46.0	12.8	100	144
4	398.544	35.5	16.0	3.5	23.5	31.5	46.0	14.5	400	147
5	592.085	31.2	18.6	4.1	23.4	30.5	46.0	15.5	100	151
6	796.847	35.8	19.9	4.8	23.5	37.0	46.0	9.0	150	160
7	979.577	30.6	22.0	5.4	22.8	35.2	54.0	18.8	100	148
----- Vertical -----										
8	34.519	32.6	15.5	1.0	23.9	25.2	40.0	14.8	100	221
9	39.315	30.8	13.2	1.1	24.1	21.0	40.0	19.0	400	151
10	98.384	39.2	10.4	1.4	24.1	26.9	43.5	16.6	100	139
11	318.134	36.1	14.2	3.0	23.6	29.7	46.0	16.3	199	144
12	402.069	38.2	16.1	3.5	23.5	34.3	46.0	11.7	400	152
13	790.085	37.8	19.8	4.8	23.5	38.9	46.0	7.1	100	139
14	993.290	28.7	22.2	5.4	22.7	33.6	54.0	20.4	100	142

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

RADIATED EMISSION

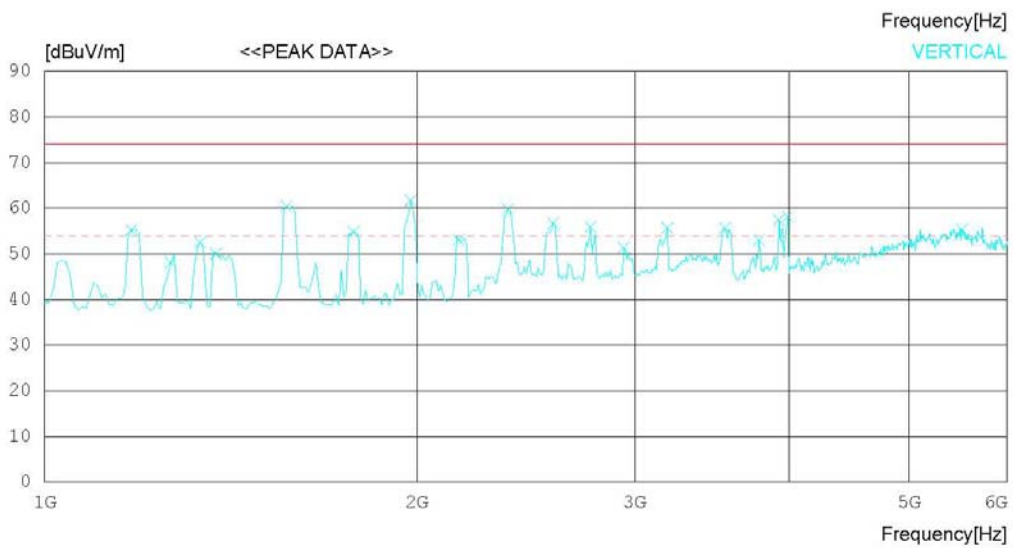
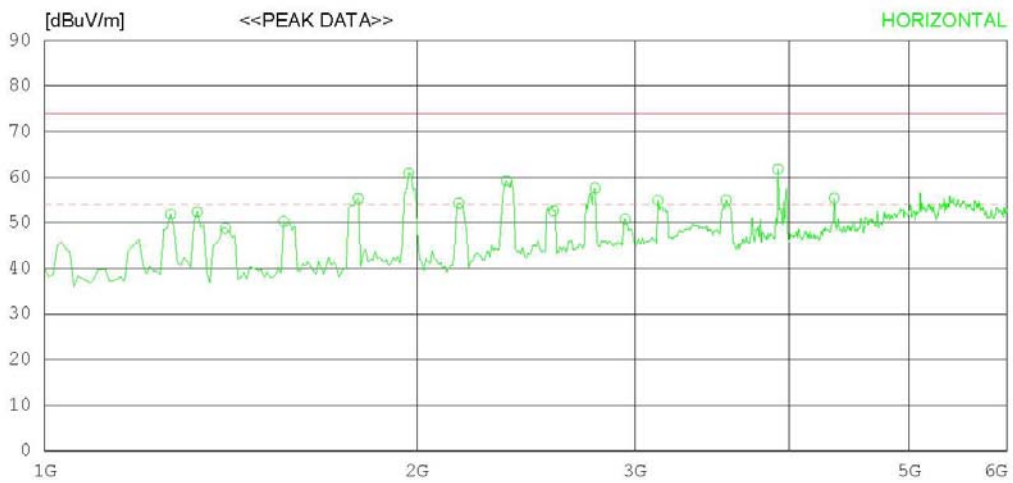
Date : 2013-02-14

Model Name : 32LN5750-UH
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 22 °C 39 % R.H.
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 : 32LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 22 °C 39 % 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	1264.423	49.4	24.3	6.7	28.5	51.9	74.0	22.1	100	181
2	1328.526	49.6	24.4	6.9	28.5	52.4	74.0	21.6	100	181
3	1400.641	45.6	24.5	7.2	28.5	48.8	74.0	25.2	100	181
4	1560.897	46.6	24.6	7.6	28.5	50.3	74.0	23.7	100	171
5	1793.269	51.1	24.6	8.1	28.5	55.3	74.0	18.7	100	164
6	1969.551	56.4	24.6	8.4	28.5	60.9	74.0	13.1	100	173
7	2161.860	48.5	25.5	8.8	28.5	54.3	74.0	19.7	100	149
8	2362.184	51.8	26.7	9.2	28.5	59.2	74.0	14.8	100	125
9	2578.533	43.6	27.7	9.7	28.4	52.6	74.0	21.4	100	141
10	2786.870	47.6	28.3	10.1	28.4	57.6	74.0	16.4	100	175
11	2947.128	40.0	28.8	10.4	28.4	50.8	74.0	23.2	100	141
12	3131.426	43.5	29.0	10.8	28.4	54.9	74.0	19.1	100	181
13	3556.112	42.5	29.0	11.8	28.3	55.0	74.0	19	100	181
14	3916.694	47.5	29.9	12.7	28.3	61.8	74.0	12.2	100	121
15	4349.385	39.6	30.7	13.3	28.2	55.4	74.0	18.6	100	181
----- Vertical -----										
16	1176.282	53.2	24.1	6.4	28.5	55.2	74.0	18.8	100	189
17	1264.423	45.6	24.3	6.7	28.5	48.1	74.0	25.9	100	35
18	1336.538	49.8	24.4	6.9	28.5	52.6	74.0	21.4	100	189
19	1376.602	46.9	24.5	7.1	28.5	50.0	74.0	24	100	147
20	1568.910	56.7	24.6	7.6	28.5	60.4	74.0	13.6	100	180
21	1777.243	50.8	24.6	8.0	28.5	54.9	74.0	19.1	100	140
22	1977.564	57.2	24.6	8.4	28.5	61.7	74.0	12.3	100	189
23	2161.860	47.3	25.5	8.8	28.5	53.1	74.0	20.9	100	149
24	2370.197	52.3	26.7	9.3	28.5	59.8	74.0	14.2	100	189
25	2578.533	47.7	27.7	9.7	28.4	56.7	74.0	17.3	100	189
26	2762.831	46.0	28.3	10.0	28.4	55.9	74.0	18.1	100	189
27	2939.115	40.6	28.8	10.4	28.4	51.4	74.0	22.6	100	175
28	3187.517	44.2	28.9	11.0	28.4	55.7	74.0	18.3	100	189
29	3548.099	43.1	29.0	11.8	28.3	55.6	74.0	18.4	100	169
30	3780.474	39.3	29.6	12.4	28.3	53.0	74.0	21	100	189
31	3924.707	42.9	30.0	12.8	28.3	57.4	74.0	16.6	100	189
32	3988.811	43.5	30.1	12.9	28.3	58.2	74.0	15.8	100	178
33	5519.239	33.6	35.0	14.9	28.2	55.3	74.0	18.7	100	97

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

RADIATED EMISSION

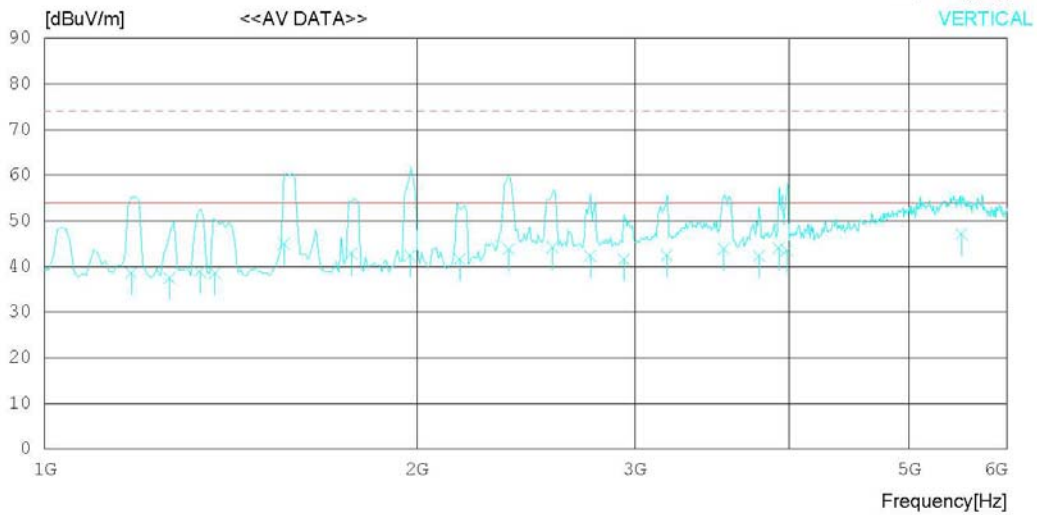
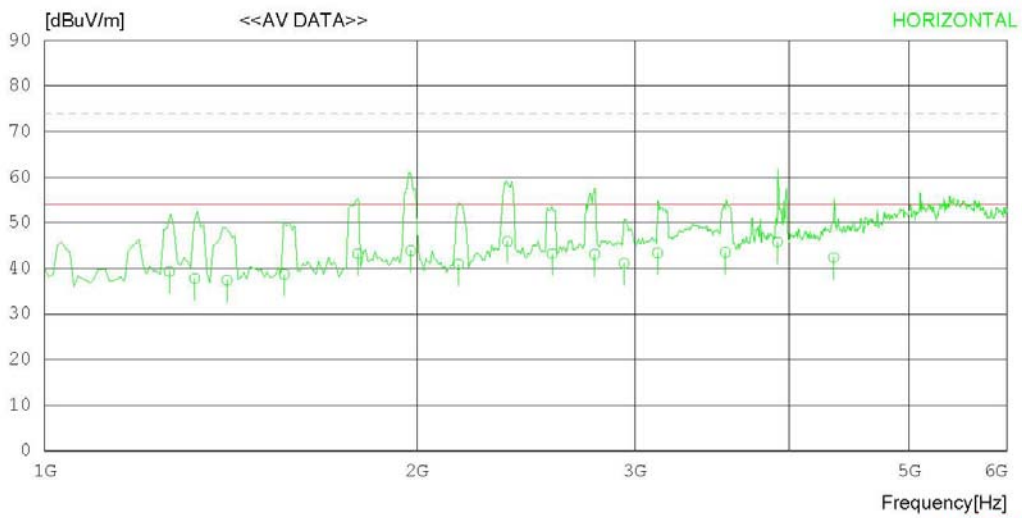
Date : 2013-02-14

Model Name : 32LN5750-UH
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 22 °C 39 % R.H.
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 : 32LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 22 °C 39 % 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	1261.484	36.8	24.3	6.7	28.5	39.3	54.0	14.7	100	152
2	1322.518	35.0	24.4	6.9	28.5	37.8	54.0	16.2	100	149
3	1404.174	34.2	24.5	7.2	28.5	37.4	54.0	16.6	100	135
4	1562.693	35.0	24.6	7.6	28.5	38.7	54.0	15.3	100	144
5	1791.851	39.0	24.6	8.1	28.5	43.2	54.0	10.8	100	138
6	1977.518	39.4	24.6	8.4	28.5	43.9	54.0	10.1	100	148
7	2160.693	35.1	25.5	8.8	28.5	40.9	54.0	13.1	100	151
8	2367.516	38.4	26.7	9.3	28.5	45.9	54.0	8.1	100	147
9	2572.510	34.2	27.7	9.7	28.4	43.2	54.0	10.8	100	133
10	2784.747	33.1	28.3	10.1	28.4	43.1	54.0	10.9	100	149
11	2941.960	30.3	28.8	10.4	28.4	41.1	54.0	12.9	100	152
12	3130.036	32.0	29.0	10.8	28.4	43.4	54.0	10.6	100	157
13	3551.399	31.0	29.0	11.8	28.3	43.5	54.0	10.5	100	143
14	3911.258	31.5	29.9	12.7	28.3	45.8	54.0	8.2	100	150
15	4344.850	26.6	30.7	13.3	28.2	42.4	54.0	11.6	100	155
----- Vertical -----										
16	1174.825	36.6	24.1	6.4	28.5	38.6	54.0	15.4	100	142
17	1261.694	35.0	24.3	6.7	28.5	37.5	54.0	16.5	100	135
18	1334.718	36.1	24.4	6.9	28.5	38.9	54.0	15.1	100	144
19	1373.654	35.4	24.5	7.1	28.5	38.5	54.0	15.5	100	140
20	1561.685	41.2	24.6	7.6	28.5	44.9	54.0	9.1	100	151
21	1770.174	38.8	24.6	8.0	28.5	42.9	54.0	11.1	100	135
22	1974.753	37.9	24.6	8.4	28.5	42.4	54.0	11.6	100	149
23	2166.447	35.8	25.5	8.8	28.5	41.6	54.0	12.4	100	154
24	2372.176	36.3	26.7	9.3	28.5	43.8	54.0	10.2	100	132
25	2574.992	35.2	27.7	9.7	28.4	44.2	54.0	9.8	100	144
26	2761.285	32.5	28.2	10.0	28.4	42.3	54.0	11.7	100	139
27	2941.825	30.8	28.8	10.4	28.4	41.6	54.0	12.4	100	141
28	3184.718	31.1	28.9	10.9	28.4	42.5	54.0	11.5	100	158
29	3541.609	31.4	29.0	11.8	28.3	43.9	54.0	10.1	100	155
30	3782.074	28.6	29.6	12.4	28.3	42.3	54.0	11.7	100	143
31	3921.357	29.6	30.0	12.7	28.3	44.0	54.0	10.0	100	144
32	5512.654	25.4	35.0	14.9	28.2	47.1	54.0	6.9	100	152
33	3981.474	28.8	30.1	12.9	28.3	43.5	54.0	10.5	100	139

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