

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 32LN530B-UA
Order No. : 1212-02953
Date of receipt : 2012-12-17
Test duration : 2012-12-19 ~ 2012-12-20
Use of report : FCC CoC Marking
Date of Issue : 2012-12-27

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 : (17 ~ 22) °C,
Humidity : (23 ~ 37) % R.H.

Test result : ☒ Comply ☐ Not Comply

The test results presented in this test report are limited only to the sample supplied by applicant and
the use of this test report is inhibited other than its purpose.

This test report shall not be reproduced except in full, without the written approval of DIGITAL EMC CO., LTD.

Tested by:



Assistant Manager
DaeHwa Eun

Reviewed by:



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.digitalemcc.com>

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

2. Test Laboratory

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

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

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

3. General Information of EUT

Model No.	32LN530B-UA
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ32LN530BUA
Type of Sample Tested	Pre-Production
High Frequency	Max 800 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

Component supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720 x 480i	15.73	59.94
	15.73	60.00
720 x 480p	31.47	59.94
	31.50	60.00
1280 x 720p	44.96	59.94
	45.00	60.00
1920 x 1080i	33.72	59.94
	33.75	60.00
1920 x 1080p	26.97	23.976
	27.00	24.00
	33.71	29.97
	33.75	30.00
	67.432	59.94
	67.500	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	12-19	22	23
Radiated Disturbance	12-20	17	37

4.3 Test result Summary

(1) Conducted Emission (HDMI MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.18163	L1	56.9	Quasi-Peak	64.4	7.5

(2) Radiated Emission (HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
2079.096	H	50.0	Average	54.0	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
- USB MODE

5.3 Support Equipment Used

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

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

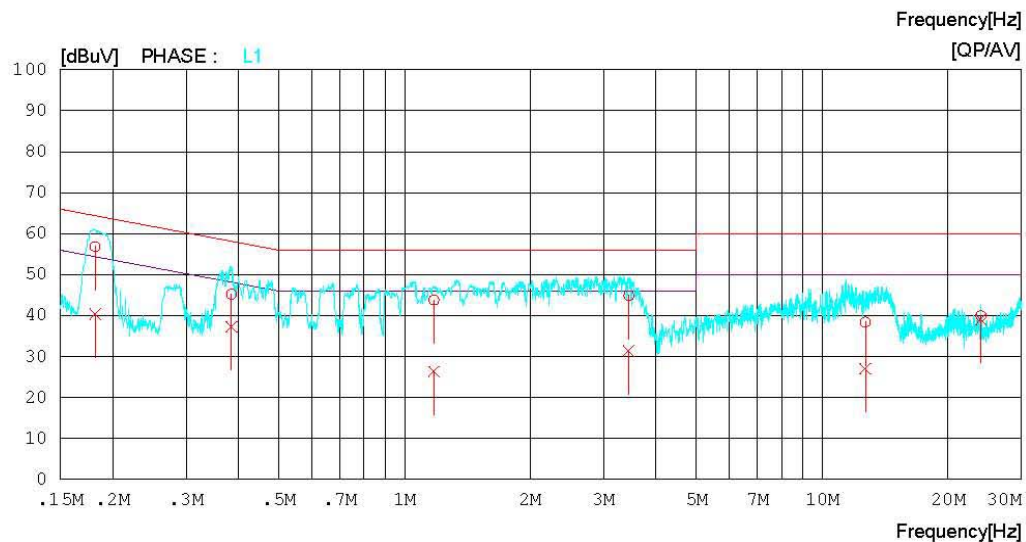
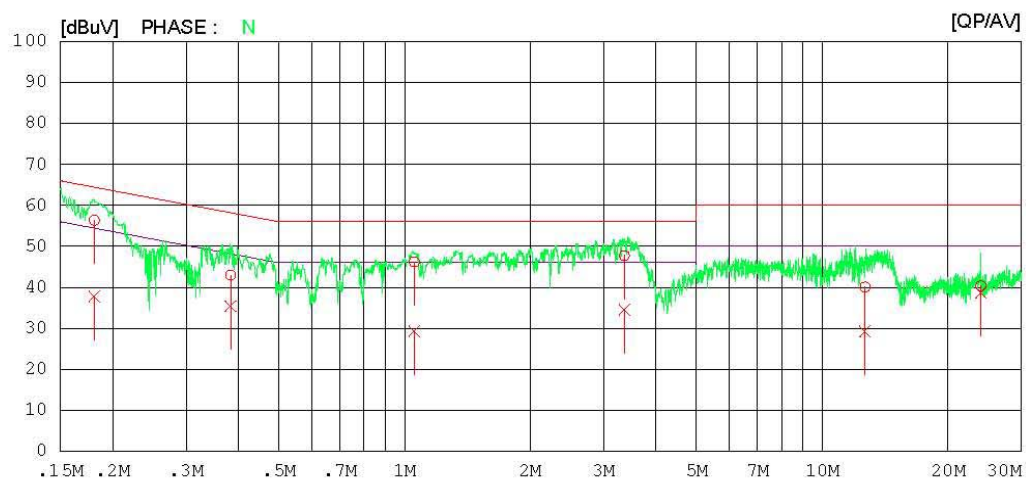
Digital EMC
Date : 2012-12-19

Model No. : 32LN530B-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 22°C 23 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2012-12-19

Model No. : 32LN530B-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 22 °C 23 % 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	0.18093	56.1	37.5	0.2	56.3	37.7	64.4	54.4	8.1	16.7	N
2	0.38393	42.7	35.2	0.2	42.9	35.4	58.2	48.2	15.3	12.8	N
3	1.05600	45.9	29.0	0.3	46.2	29.3	56.0	46.0	9.8	16.7	N
4	3.36150	47.4	34.2	0.3	47.7	34.5	56.0	46.0	8.3	11.5	N
5	12.66300	39.4	28.5	0.7	40.1	29.2	60.0	50.0	19.9	20.8	N
6	23.99000	39.3	37.6	1.0	40.3	38.6	60.0	50.0	19.7	11.4	N
7	0.18163	56.7	40.2	0.2	56.9	40.4	64.4	54.4	7.5	14.0	L1
8	0.38515	45.0	37.1	0.2	45.2	37.3	58.2	48.2	13.0	10.9	L1
9	1.17600	43.5	26.0	0.3	43.8	26.3	56.0	46.0	12.2	19.7	L1
10	3.44600	44.6	31.1	0.3	44.9	31.4	56.0	46.0	11.1	14.6	L1
11	12.68550	37.7	26.3	0.7	38.4	27.0	60.0	50.0	21.6	23.0	L1
12	23.98500	39.0	38.1	1.0	40.0	39.1	60.0	50.0	20.0	10.9	L1

< USB MODE >



Results of Conducted Emission

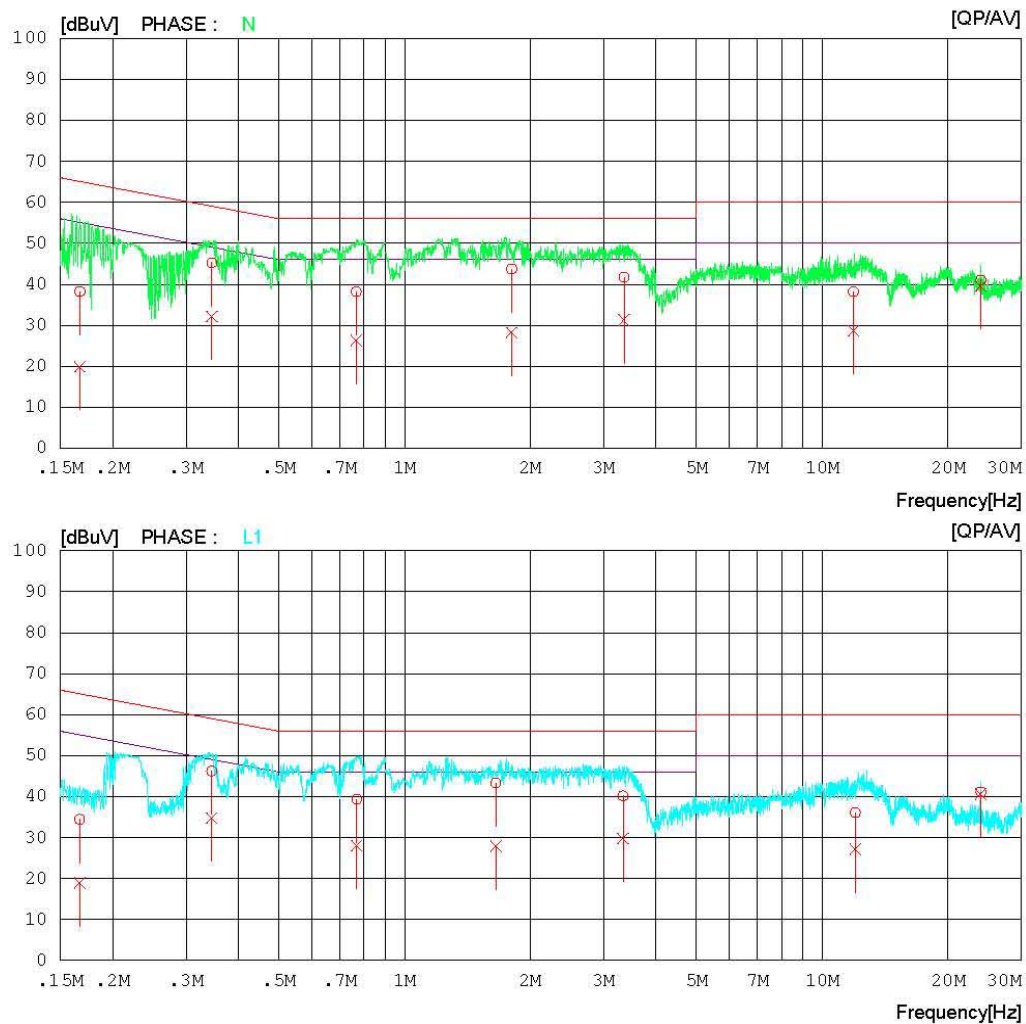
Digital EMC
Date : 2012-12-19

Model No. : 32LN530B-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 22°C 23 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2012-12-19

Model No. : 32LN530B-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 22 °C 23 % 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	0.16706	38.0	19.7	0.2	38.2	19.9	65.1	55.1	26.9	35.2	N
2	0.34584	45.1	31.9	0.2	45.3	32.1	59.1	49.1	13.8	17.0	N
3	0.76685	38.0	26.1	0.2	38.2	26.3	56.0	46.0	17.8	19.7	N
4	1.80600	43.4	27.9	0.3	43.7	28.2	56.0	46.0	12.3	17.8	N
5	3.35500	41.4	31.0	0.3	41.7	31.3	56.0	46.0	14.3	14.7	N
6	11.88450	37.4	28.0	0.7	38.1	28.7	60.0	50.0	21.9	21.3	N
7	23.99000	40.0	38.6	1.0	41.0	39.6	60.0	50.0	19.0	10.4	N
8	0.16684	34.3	18.7	0.2	34.5	18.9	65.1	55.1	30.6	36.2	L1
9	0.34520	46.0	34.6	0.2	46.2	34.8	59.1	49.1	12.9	14.3	L1
10	0.76808	39.2	27.9	0.2	39.4	28.1	56.0	46.0	16.6	17.9	L1
11	1.65500	43.0	27.6	0.3	43.3	27.9	56.0	46.0	12.7	18.1	L1
12	3.33550	39.9	29.5	0.3	40.2	29.8	56.0	46.0	15.8	16.2	L1
13	12.01250	35.4	26.5	0.7	36.1	27.2	60.0	50.0	23.9	22.8	L1
14	23.98750	40.1	39.6	1.0	41.1	40.6	60.0	50.0	18.9	9.4	L1

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

The radiated disturbance was measured and set-up was made accordance with **ANSI C63.4**.

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber**.

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

Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

For below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.

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

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

6.2.2 Limit for Radiated Disturbance

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

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	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 (dBμV/m)	Quasi-peak (dBμV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54

Note 1 The lower limit shall apply at the transition frequency.

Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (10 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 230	40	30
230 to 1 000	47	37

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

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

Note) 1. Emission Level = Reading Value + Correction Factor.

2. Correction Factor = Cable loss - Amp gain + Antenna Factor

3. Margin = Limit - Emission level

Test Result

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

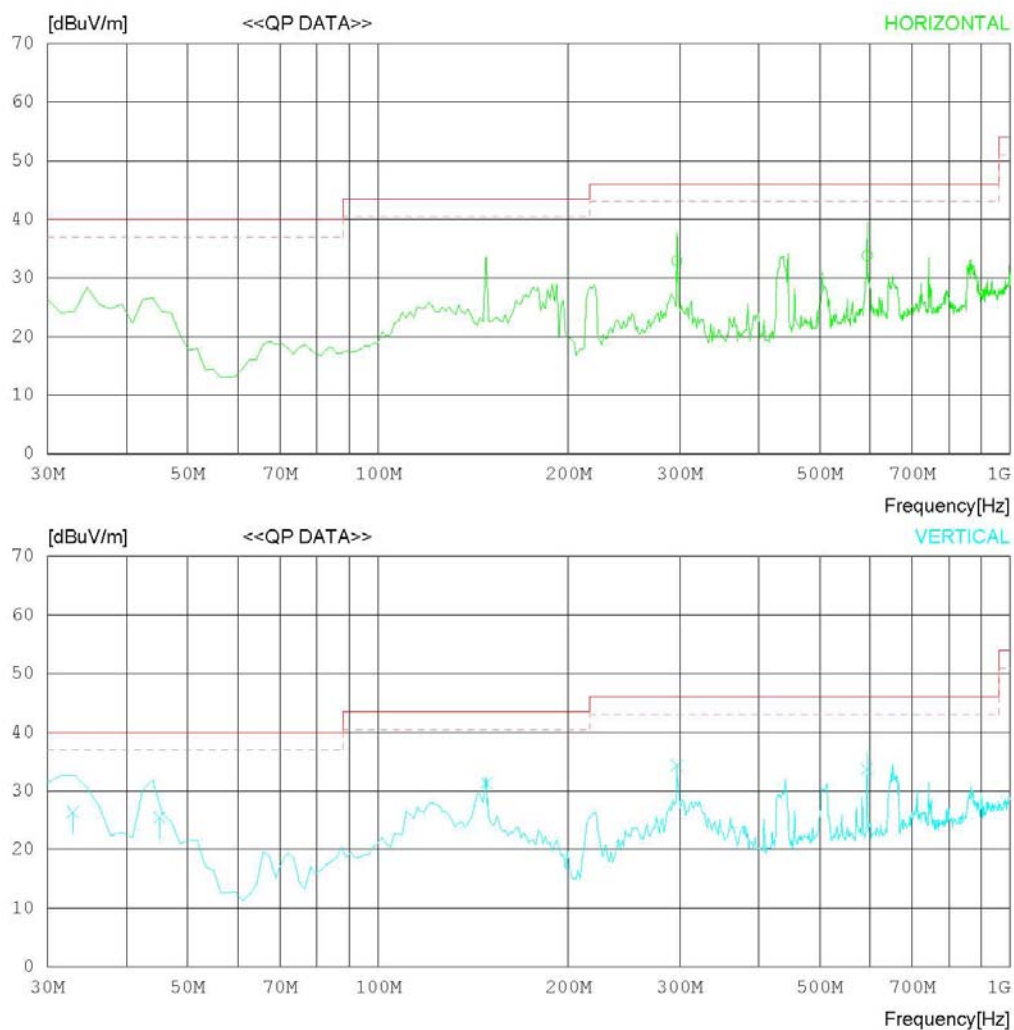
Date : 2012-12-20

Model Name : 32LN530B-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 37 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2012-12-20

Model Name : 32LN530B-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °C 37 % 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	297.011	40.9	13.1	2.8	23.9	32.9	46.0	13.1	378	211
2	594.016	35.9	18.5	4.1	24.7	33.8	46.0	12.2	171	14
----- Vertical -----										
3	32.935	31.5	17.0	1.0	23.1	26.4	40.0	13.6	114	124
4	45.121	37.0	10.3	1.1	22.9	25.5	40.0	14.5	274	192
5	148.544	42.0	10.7	1.7	23.1	31.3	43.5	12.2	117	360
6	297.011	42.4	13.1	2.8	23.9	34.4	46.0	11.6	100	192
7	594.012	35.8	18.5	4.1	24.7	33.7	46.0	12.3	213	147

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

RADIATED EMISSION

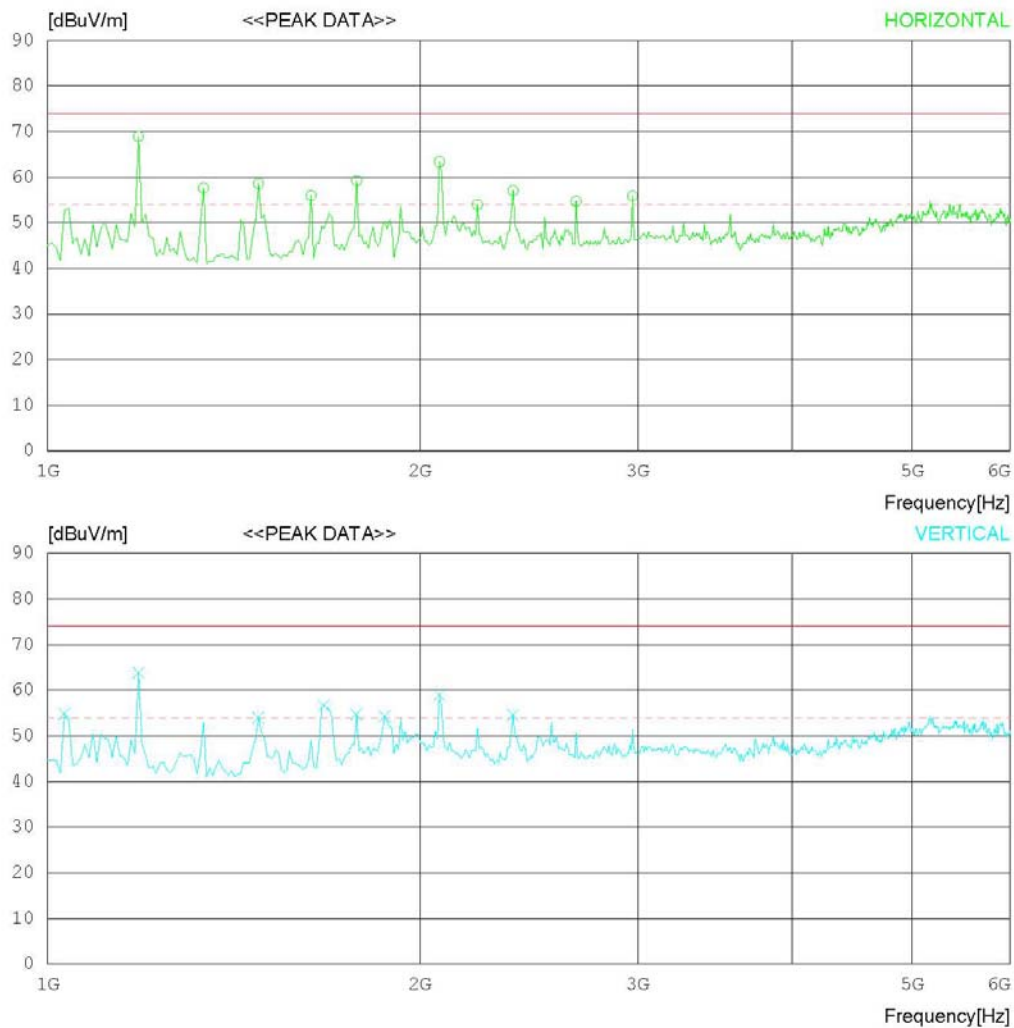
Date : 2012-12-20

Model Name : 32LN530B-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 37 % 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 : 2012-12-20

Model Name : 32LN530B-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °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	80.2	24.2	6.4	41.9	68.9	74.0	5.1	100	150
2	1336.538	68.0	24.4	6.9	41.7	57.6	74.0	16.4	100	1
3	1480.769	68.2	24.6	7.4	41.6	58.6	74.0	15.4	100	1
4	1633.013	65.3	24.6	7.8	41.7	56.0	74.0	18	100	165
5	1777.243	68.4	24.6	8.0	41.8	59.2	74.0	14.8	100	212
6	2073.718	71.5	25.0	8.6	41.7	63.4	74.0	10.6	100	1
7	2225.964	60.9	25.9	8.9	41.7	54.0	74.0	20	100	1
8	2378.210	63.0	26.7	9.3	41.9	57.1	74.0	16.9	100	139
9	2674.688	58.5	28.0	9.9	41.7	54.7	74.0	19.3	100	154
10	2971.167	58.4	28.9	10.5	41.9	55.9	74.0	18.1	100	161
----- Vertical -----										
11	1032.051	66.8	23.9	5.9	41.8	54.8	74.0	19.2	100	358
12	1184.295	75.1	24.2	6.4	41.9	63.8	74.0	10.2	100	358
13	1480.769	63.6	24.6	7.4	41.6	54.0	74.0	20	100	358
14	1673.077	66.0	24.6	7.8	41.7	56.7	74.0	17.3	100	358
15	1777.243	63.9	24.6	8.0	41.8	54.7	74.0	19.3	100	358
16	1873.397	63.2	24.6	8.2	41.7	54.3	74.0	19.7	100	358
17	2073.718	67.1	25.0	8.6	41.7	59.0	74.0	15	100	195
18	2378.210	60.5	26.7	9.3	41.9	54.6	74.0	19.4	100	358

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

RADIATED EMISSION

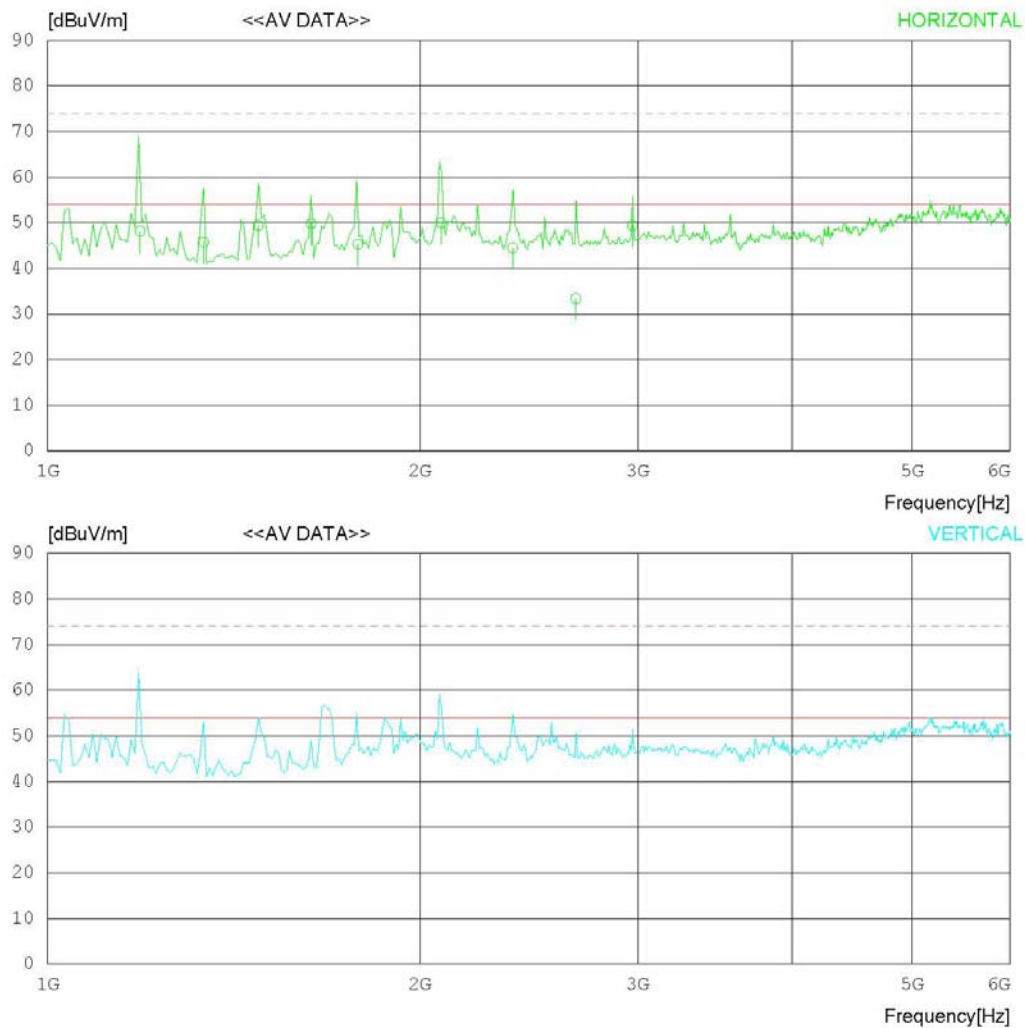
Date : 2012-12-20

Model Name : 32LN530B-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 37 % 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 : 2012-12-20

Model Name : 32LN530B-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °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	1188.003	59.5	24.2	6.4	41.9	48.2	54.0	5.8	100	170
2	1336.552	56.1	24.4	6.9	41.7	45.7	54.0	8.3	100	27
3	1480.480	59.0	24.6	7.4	41.6	49.4	54.0	4.6	100	89
4	1633.552	59.1	24.6	7.8	41.7	49.8	54.0	4.2	100	142
5	1782.072	54.5	24.6	8.0	41.8	45.3	54.0	8.7	100	210
6	2079.096	58.1	25.0	8.6	41.7	50.0	54.0	4.0	100	1
7	2376.076	50.4	26.7	9.3	41.9	44.5	54.0	9.5	100	331
8	2674.288	37.2	28.0	9.9	41.7	33.4	54.0	20.6	100	154
9	2970.110	51.9	28.9	10.5	41.9	49.4	54.0	4.6	100	161

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

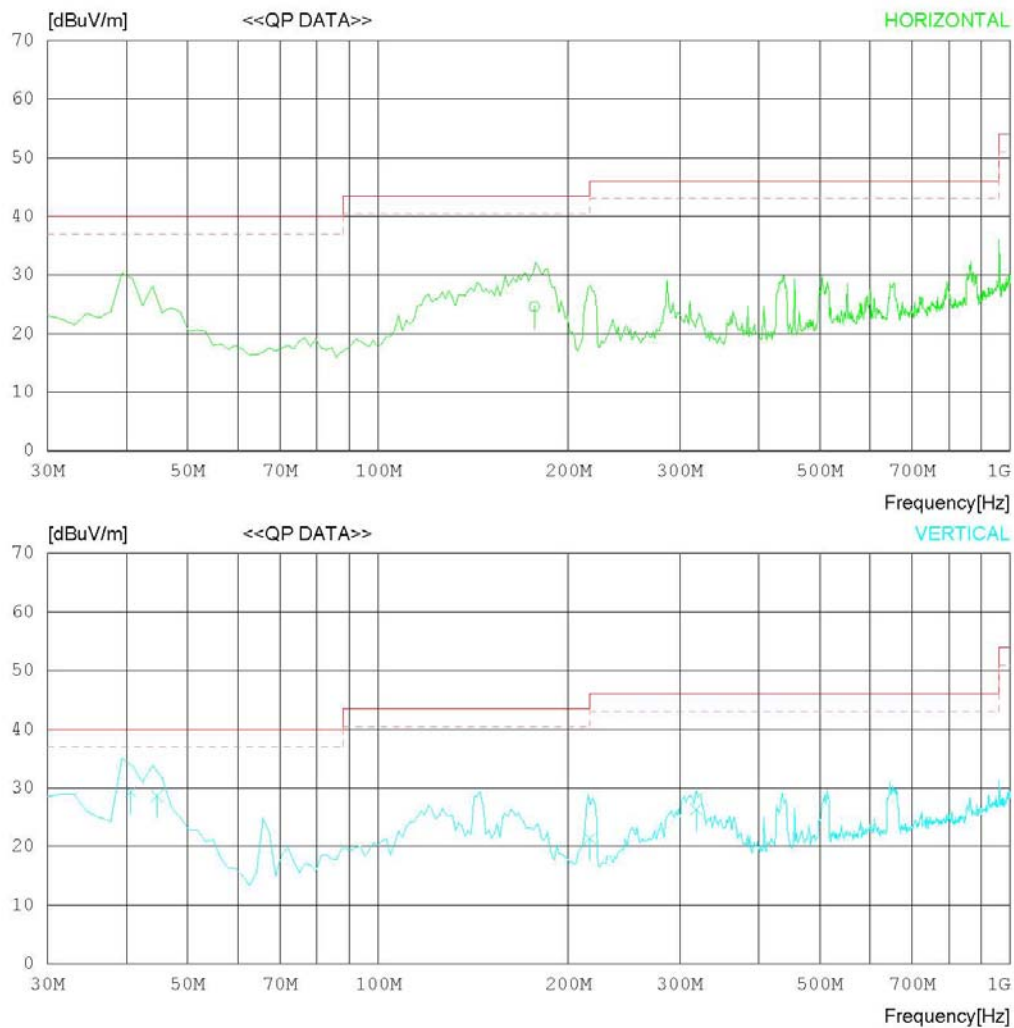
Date : 2012-12-20

Model Name : 32LN530B-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 37 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2012-12-20

Model Name : 32LN530B-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °C 37 % 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	176.631	36.3	9.4	2.1	23.2	24.6	43.5	18.9	167	10
----- Vertical -----										
2	40.658	38.2	13.0	1.1	23.0	29.3	40.0	10.7	117	251
3	44.706	39.8	10.6	1.1	22.9	28.6	40.0	11.4	152	142
4	216.355	32.2	10.2	2.4	23.4	21.4	46.0	24.6	193	172
5	318.883	33.8	13.6	3.0	24.0	26.4	46.0	19.6	167	205

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

RADIATED EMISSION

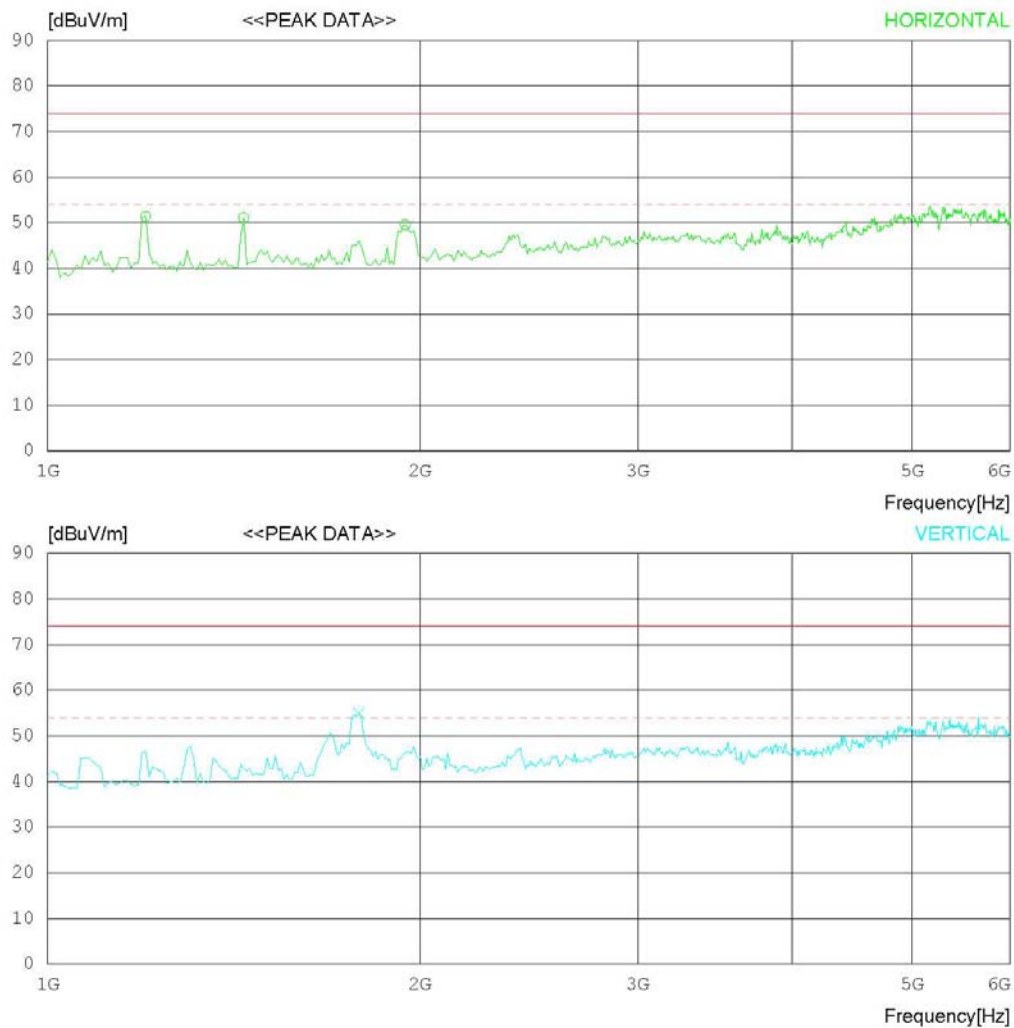
Date : 2012-12-20

Model Name : 32LN530B-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 37 % 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 : 2012-12-20

Model Name : 32LN530B-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °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	1200.320	62.7	24.2	6.4	41.9	51.4	74.0	22.6	100	358
2	1440.705	60.8	24.6	7.3	41.6	51.1	74.0	22.9	100	358
3	1945.512	58.4	24.6	8.3	41.7	49.6	74.0	24.4	100	358
----- Vertical -----										
4	1785.256	64.1	24.6	8.0	41.8	54.9	74.0	19.1	100	1

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

RADIATED EMISSION

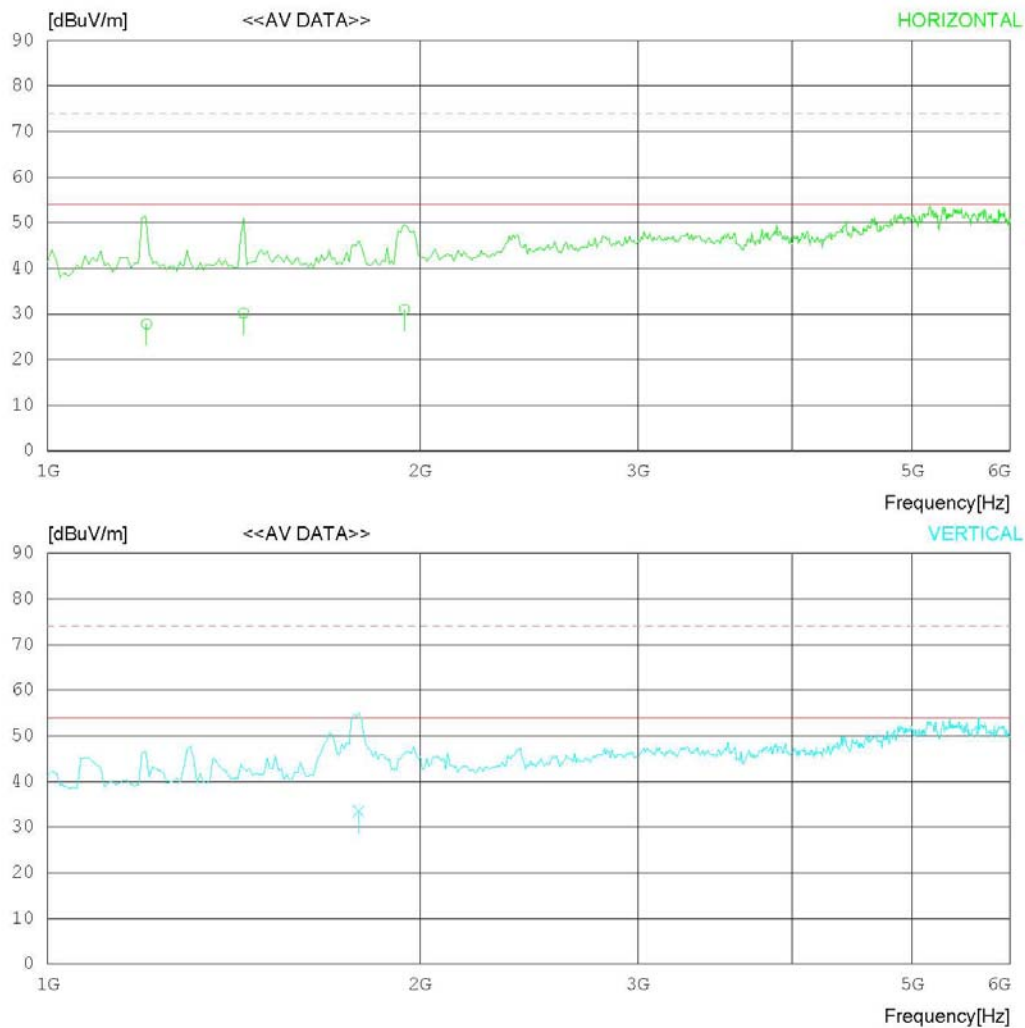
Date : 2012-12-20

Model Name : 32LN530B-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 17 °C 37 % 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 : 2012-12-20

Model Name : 32LN530B-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 17 °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	1202.229	39.0	24.2	6.5	41.9	27.8	54.0	26.2	100	124
2	1440.064	39.9	24.6	7.3	41.6	30.2	54.0	23.8	100	247
3	1943.197	39.8	24.6	8.3	41.7	31.0	54.0	23.0	100	321
----- Vertical -----										
4	1784.991	42.7	24.6	8.0	41.8	33.5	54.0	20.5	100	141

Appendix 1

List of Test and Measurement Instruments

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

1. Conducted Disturbance

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

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2012.01.09	2013.01.09
☒ BILOG ANTENNA	CBL6112D	SCHAFFNER	22609	2011.12.21	2012.12.21
☒ HORN ANTENNA	BBHA9120D	SCHWARZBECK	9120D-1014	2012.07.20	2013.07.20
☒ AMPLIFIER	8447E	H/P	2945A02865	2012.01.09	2013.01.09
☒ AMPLIFIER	MLA-100M18-B01-25	TSJ	1719458	2012.06.04	2013.06.04
☐ SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2012.07.11	2013.07.11
☐ AMPLIFIER	8447D	AGILENT	2443A03690	2012.07.01	2013.07.01
☐ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.03.22	2014.03.22
☐ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2012.04.10	2014.04.10
☐ LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2012.04.10	2014.04.10
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2012.03.12	2014.03.12
☐ LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2012.03.12	2014.03.12
☐ AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2012.03.05	2013.03.05