

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 32LN541C-UA
Order No. : DEMC1302-00496
Date of receipt : 2013-02-05
Test duration : 2013-02-09 ~ 2013-02-12
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 : (19 ~ 20) °C,
Humidity : (34 ~ 35) % 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.

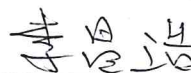
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Tested by:



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	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.	32LN541C-UA
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ32LN541CUA
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

RGB (PC), HDMI (PC) supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720x400	31.46	70.08
640x480	31.46	59.94
800x600	37.87	60.31
1024x768	48.36	60.00
1360x768	47.71	60.01
1280x1024	63.98	60.02
1920x1080	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	02-09	20	35
Radiated Disturbance	02-12	19	34

4.3 Test result Summary

(1) Conducted Emission (DSUB MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.41783	N	40.3	Average	47.5	7.2

(2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
513.000	H	40.0	Quasi-Peak	46.0	6.0

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

- DSUB MODE : 'H' Pattern mode, 1920x1080 Resolution
- HDMI MODE : 'H' Pattern mode, 1920x1080 Resolution
- 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	VOSTRO220	G3RZKBX	DELL INC.	POWER	1.6	Not use	Non-shield	Plastic	DOC
				PS/2	1.8	Not use	Non-shield		
				PS/2	1.6	Not use	Non-shield		
				USB	1.8	Not use	Non-shield		
				HDMI	1.8	Not use	Shield		
				DSUB	1.7	Not use	Shield		
KEYBOARD	SKG-210P	TAKSC12256 D	MONITEREY INTERNATIONAL CORP	PS/2	1.8	Not use	Non-shield	Plastic	DOC
MOUSE	SML-510PB	M5PBTA6S6 03018D	MICROSOFT CORPORATION	PS/2	1.6	Not use	Non-shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2001499	SONY EMCS	POWER AV	1.7 1.8	Not use Not use	Non-shield Non-shield	Plastic	VER
USB MEMORY	SDCZ37-004G	N/A	SANDISK	USB	-	-	-	Plastic	DOC
PRINTER	EPSON AcuLaser	LWTZ181070	EPSON	POWER USB	1.8 2.0	Not use Not use	Non-shield Non-shield	Plastic	DOC
Remote control	AKB73715608	N/A	OHSUNG ELECTRONIC	-	-	-	-	-	-
Headset	COV903	N/A	COSY	STEREO	2.0	Not use	Non-shield	Plastic	DOC

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

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

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

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

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

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

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

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

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

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

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

6.1.2 Limit for Conducted Disturbance

(1) Conducted disturbance at mains ports.

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

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

2. Correction Factor = Cable Loss + Insertion Loss of LISN

3. Margin = Limit - Emission level

Test Result

< DSUB MODE >



Results of Conducted Emission

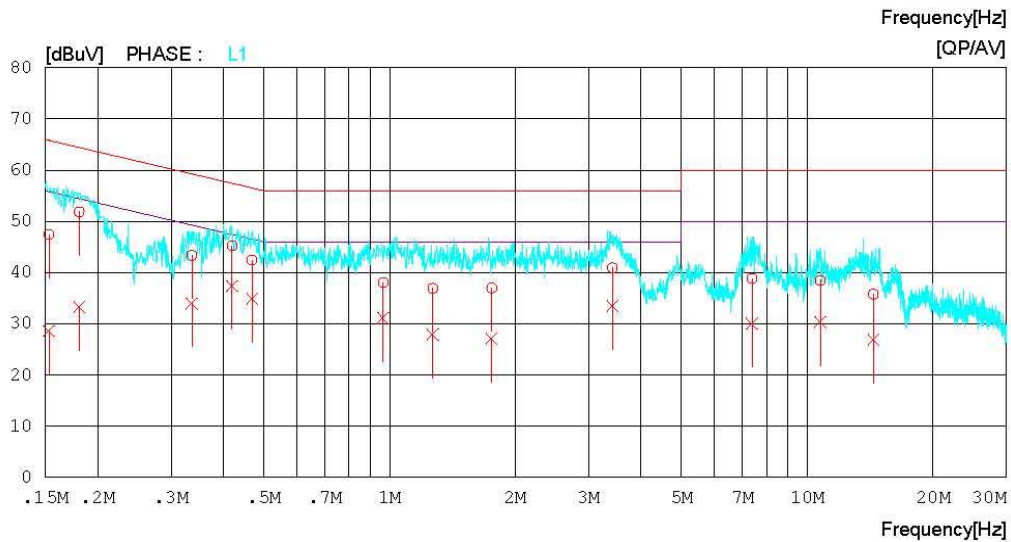
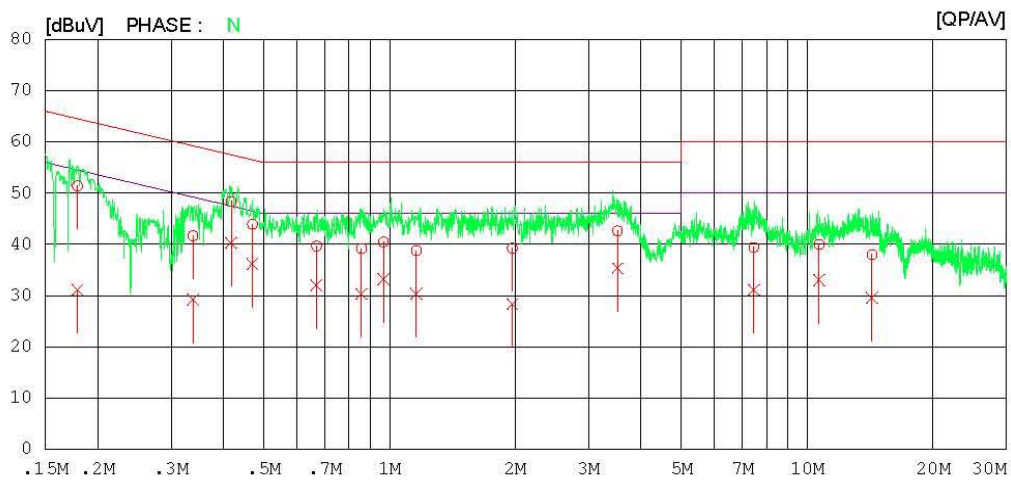
Digital EMC
Date : 2013-02-09

Model No. : 32LN541C-UA
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20°C 35 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-09

Model No. : 32LN541C-UA
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20 °C 35 % 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	0.17906	51.2	30.9	0.2	51.4	31.1	64.5	54.5	13.1	23.4	N
2	0.33850	41.5	29.0	0.2	41.7	29.2	59.2	49.2	17.5	20.0	N
3	0.41783	48.2	40.1	0.2	48.4	40.3	57.5	47.5	9.1	7.2	N
4	0.46989	43.7	35.9	0.2	43.9	36.1	56.5	46.5	12.6	10.4	N
5	0.66931	39.4	31.8	0.2	39.6	32.0	56.0	46.0	16.4	14.0	N
6	0.85731	38.9	30.1	0.2	39.1	30.3	56.0	46.0	16.9	15.7	N
7	0.96750	40.2	33.0	0.2	40.4	33.2	56.0	46.0	15.6	12.8	N
8	1.15950	38.5	30.1	0.3	38.8	30.4	56.0	46.0	17.2	15.6	N
9	1.96800	39.0	28.0	0.3	39.3	28.3	56.0	46.0	16.7	17.7	N
10	3.51850	42.3	35.0	0.3	42.6	35.3	56.0	46.0	13.4	10.7	N
11	7.45150	38.9	30.6	0.5	39.4	31.1	60.0	50.0	20.6	18.9	N
12	10.68500	39.3	32.3	0.7	40.0	33.0	60.0	50.0	20.0	17.0	N
13	14.29600	37.3	28.9	0.7	38.0	29.6	60.0	50.0	22.0	20.4	N
14	0.15300	47.2	28.4	0.2	47.4	28.6	65.8	55.8	18.4	27.2	L1
15	0.18080	51.7	33.1	0.2	51.9	33.3	64.4	54.4	12.5	21.1	L1
16	0.33629	43.2	33.8	0.2	43.4	34.0	59.3	49.3	15.9	15.3	L1
17	0.41974	45.0	37.2	0.2	45.2	37.4	57.5	47.5	12.3	10.1	L1
18	0.46879	42.2	34.7	0.2	42.4	34.9	56.5	46.5	14.1	11.6	L1
19	0.96600	37.9	30.9	0.2	38.1	31.1	56.0	46.0	17.9	14.9	L1
20	1.26950	36.6	27.6	0.3	36.9	27.9	56.0	46.0	19.1	18.1	L1
21	1.75700	36.7	26.8	0.3	37.0	27.1	56.0	46.0	19.0	18.9	L1
22	3.41700	40.6	33.2	0.3	40.9	33.5	56.0	46.0	15.1	12.5	L1
23	7.37300	38.3	29.6	0.5	38.8	30.1	60.0	50.0	21.2	19.9	L1
24	10.74500	37.8	29.7	0.7	38.5	30.4	60.0	50.0	21.5	19.6	L1
25	14.40850	35.1	26.2	0.7	35.8	26.9	60.0	50.0	24.2	23.1	L1

< HDMI MODE >



Results of Conducted Emission

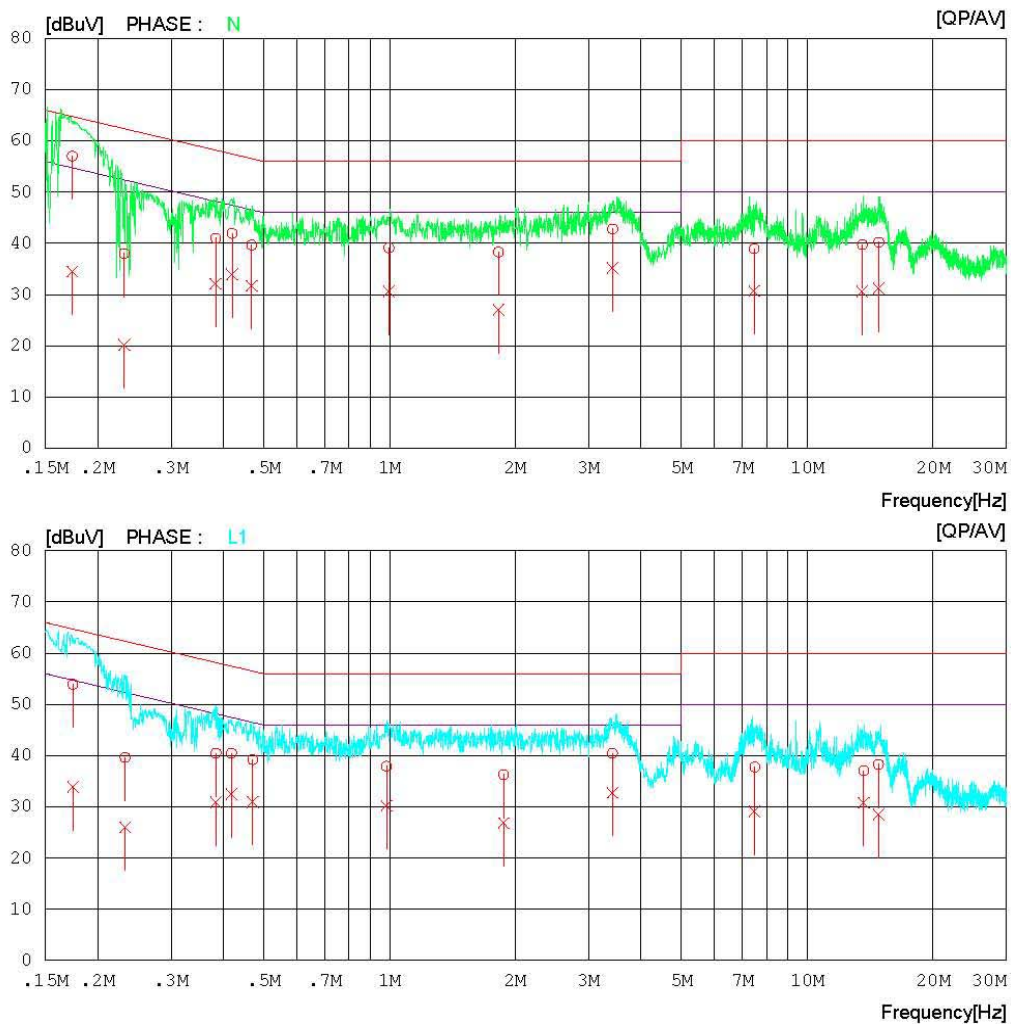
Digital EMC
Date : 2013-02-09

Model No. : 32LN541C-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20°C 35 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-09

Model No. : 32LN541C-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20 °C 35 % 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	0.17404	56.8	34.3	0.2	57.0	34.5	64.8	54.8	7.8	20.3	N
2	0.23190	37.8	20.0	0.2	38.0	20.2	62.4	52.4	24.4	32.2	N
3	0.38389	40.8	31.9	0.2	41.0	32.1	58.2	48.2	17.2	16.1	N
4	0.41988	41.7	33.8	0.2	41.9	34.0	57.5	47.5	15.6	13.5	N
5	0.46784	39.5	31.5	0.2	39.7	31.7	56.6	46.6	16.9	14.9	N
6	0.99700	38.9	30.4	0.2	39.1	30.6	56.0	46.0	16.9	15.4	N
7	1.82400	38.0	26.8	0.3	38.3	27.1	56.0	46.0	17.7	18.9	N
8	3.42250	42.5	34.9	0.3	42.8	35.2	56.0	46.0	13.2	10.8	N
9	7.47300	38.4	30.2	0.5	38.9	30.7	60.0	50.0	21.1	19.3	N
10	13.55650	39.0	30.0	0.7	39.7	30.7	60.0	50.0	20.3	19.3	N
11	14.84400	39.4	30.4	0.8	40.2	31.2	60.0	50.0	19.8	18.8	N
12	0.17469	53.7	33.7	0.2	53.9	33.9	64.7	54.7	10.8	20.8	L1
13	0.23283	39.4	25.8	0.2	39.6	26.0	62.3	52.3	22.7	26.3	L1
14	0.38419	40.3	30.7	0.2	40.5	30.9	58.2	48.2	17.7	17.3	L1
15	0.41878	40.3	32.3	0.2	40.5	32.5	57.5	47.5	17.0	15.0	L1
16	0.47040	39.0	30.8	0.2	39.2	31.0	56.5	46.5	17.3	15.5	L1
17	0.98400	37.7	30.0	0.2	37.9	30.2	56.0	46.0	18.1	15.8	L1
18	1.87800	36.0	26.6	0.3	36.3	26.9	56.0	46.0	19.7	19.1	L1
19	3.42100	40.1	32.5	0.3	40.4	32.8	56.0	46.0	15.6	13.2	L1
20	7.48950	37.3	28.6	0.5	37.8	29.1	60.0	50.0	22.2	20.9	L1
21	13.65000	36.3	30.1	0.7	37.0	30.8	60.0	50.0	23.0	19.2	L1
22	14.82750	37.5	27.8	0.8	38.3	28.6	60.0	50.0	21.7	21.4	L1

< USB MODE >



Results of Conducted Emission

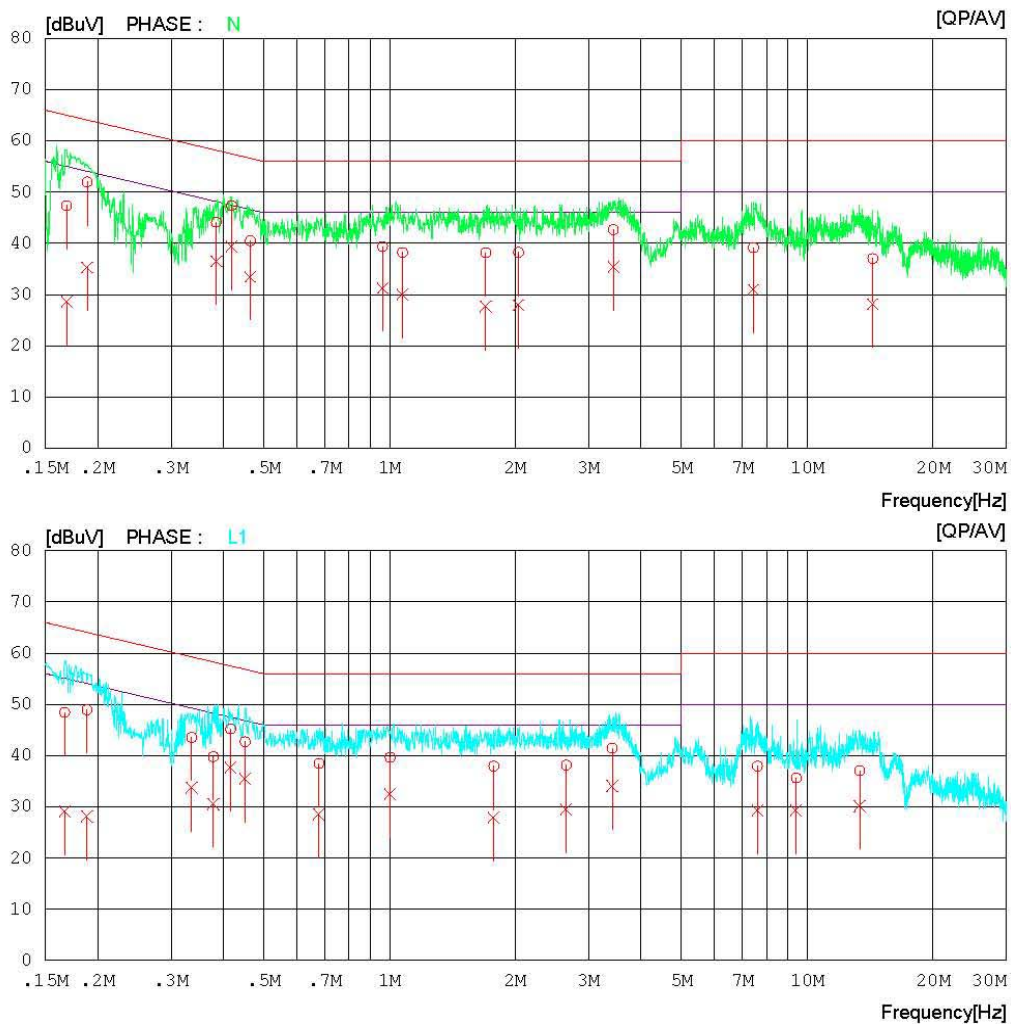
Digital EMC
Date : 2013-02-09

Model No. : 32LN541C-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20°C 35 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-09

Model No. : 32LN541C-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 20 °C 35 % 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	0.16864	47.2	28.4	0.2	47.4	28.6	65.0	55.0	17.6	26.4	N
2	0.18896	51.8	35.1	0.2	52.0	35.3	64.1	54.1	12.1	18.8	N
3	0.38503	43.9	36.3	0.2	44.1	36.5	58.2	48.2	14.1	11.7	N
4	0.41870	47.1	39.1	0.2	47.3	39.3	57.5	47.5	10.2	8.2	N
5	0.46428	40.3	33.3	0.2	40.5	33.5	56.6	46.6	16.1	13.1	N
6	0.96300	39.2	31.1	0.2	39.4	31.3	56.0	46.0	16.6	14.7	N
7	1.07500	37.9	29.7	0.3	38.2	30.0	56.0	46.0	17.8	16.0	N
8	1.70050	37.8	27.3	0.3	38.1	27.6	56.0	46.0	17.9	18.4	N
9	2.03650	37.9	27.6	0.3	38.2	27.9	56.0	46.0	17.8	18.1	N
10	3.43800	42.4	35.1	0.3	42.7	35.4	56.0	46.0	13.3	10.6	N
11	7.43450	38.7	30.4	0.5	39.2	30.9	60.0	50.0	20.8	19.1	N
12	14.35350	36.3	27.5	0.7	37.0	28.2	60.0	50.0	23.0	21.8	N
13	0.16695	48.2	28.9	0.2	48.4	29.1	65.1	55.1	16.7	26.0	L1
14	0.18878	48.8	28.0	0.2	49.0	28.2	64.1	54.1	15.1	25.9	L1
15	0.33614	43.4	33.5	0.2	43.6	33.7	59.3	49.3	15.7	15.6	L1
16	0.37856	39.6	30.4	0.2	39.8	30.6	58.3	48.3	18.5	17.7	L1
17	0.41666	45.0	37.5	0.2	45.2	37.7	57.5	47.5	12.3	9.8	L1
18	0.45155	42.5	35.3	0.2	42.7	35.5	56.8	46.8	14.1	11.3	L1
19	0.67755	38.3	28.4	0.2	38.5	28.6	56.0	46.0	17.5	17.4	L1
20	1.00350	39.4	32.2	0.3	39.7	32.5	56.0	46.0	16.3	13.5	L1
21	1.77700	37.6	27.6	0.3	37.9	27.9	56.0	46.0	18.1	18.1	L1
22	2.65050	37.8	29.2	0.3	38.1	29.5	56.0	46.0	17.9	16.5	L1
23	3.41500	41.1	33.8	0.3	41.4	34.1	56.0	46.0	14.6	11.9	L1
24	7.60550	37.4	28.8	0.5	37.9	29.3	60.0	50.0	22.1	20.7	L1
25	9.41500	34.9	28.6	0.7	35.6	29.3	60.0	50.0	24.4	20.7	L1
26	13.36200	36.3	29.5	0.7	37.0	30.2	60.0	50.0	23.0	19.8	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

< DSUB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

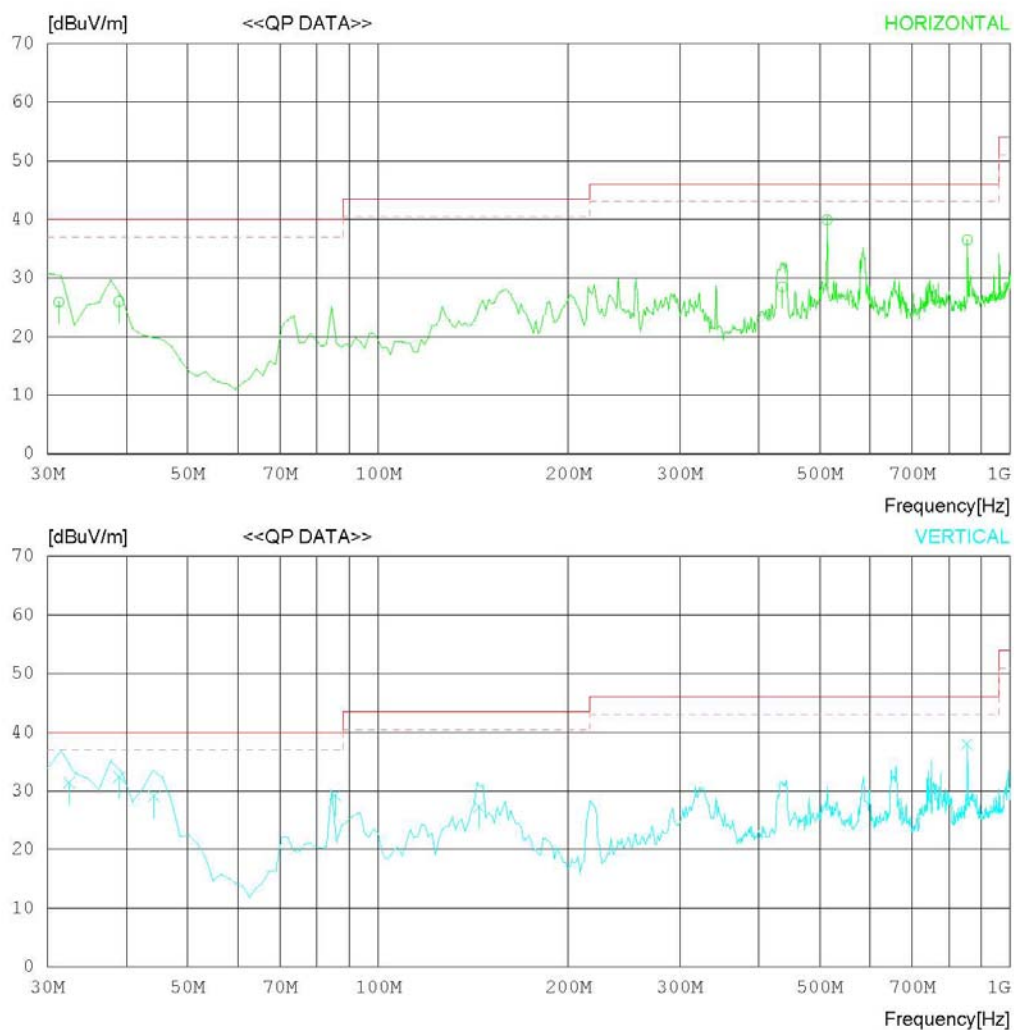
Date : 2013-02-12

Model Name : 32LN541C-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 19 °C 34 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-02-12

Model Name : 32LN541C-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 34 % 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	31.256	31.6	17.2	0.9	23.8	25.9	40.0	14.1	200	1
2	38.907	35.6	13.4	1.1	24.1	26.0	40.0	14.0	200	113
3	435.615	31.8	16.5	3.5	23.3	28.5	46.0	17.5	200	181
4	512.994	41.6	17.5	3.9	23.1	39.9	46.0	6.1	195	220
5	855.006	34.5	20.4	4.9	23.3	36.5	46.0	9.5	100	165
----- Vertical -----										
6	32.442	37.7	16.6	1.0	23.9	31.4	40.0	8.6	100	251
7	38.936	42.0	13.4	1.1	24.1	32.4	40.0	7.6	100	265
8	44.218	38.5	13.7	1.1	24.2	29.1	40.0	10.9	100	225
9	85.490	43.8	8.2	1.5	24.2	29.3	40.0	10.7	100	221
10	144.411	39.1	10.7	1.7	24.2	27.3	43.5	16.2	100	341
11	855.006	36.0	20.4	4.9	23.3	38.0	46.0	8.0	100	157

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

RADIATED EMISSION

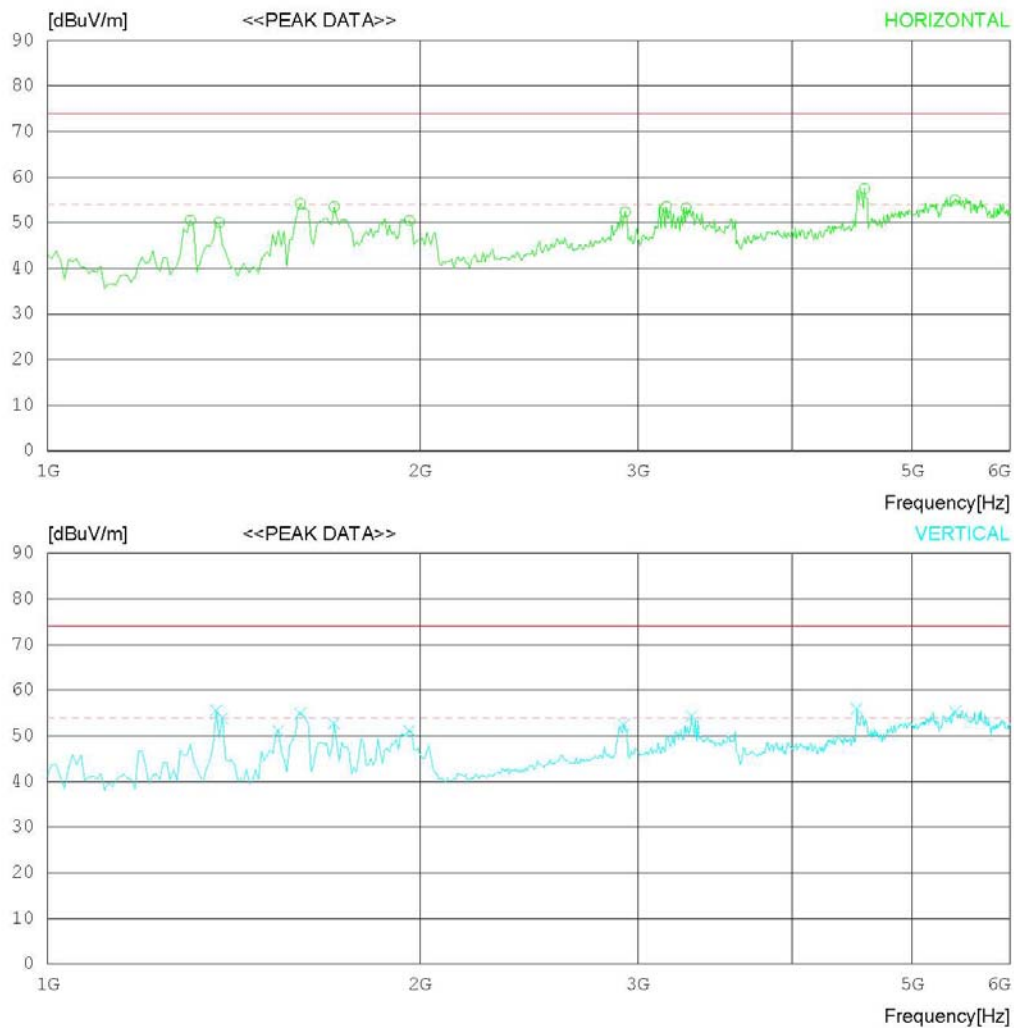
Date : 2013-02-12

Model Name : 32LN541C-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 19 °C 34 % 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 : 2013-02-12

Model Name : 32LN541C-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 34 % 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	1304.487	48.0	24.3	6.8	28.5	50.6	74.0	23.4	100	206
2	1376.602	47.0	24.5	7.1	28.5	50.1	74.0	23.9	100	358
3	1600.961	50.4	24.6	7.7	28.5	54.2	74.0	19.8	100	358
4	1705.128	49.5	24.6	7.9	28.5	53.5	74.0	20.5	100	230
5	1961.538	46.0	24.6	8.4	28.5	50.5	74.0	23.5	100	358
6	2931.103	41.6	28.8	10.4	28.4	52.4	74.0	21.6	100	215
7	3163.478	42.1	28.9	10.9	28.4	53.5	74.0	20.5	100	240
8	3283.672	41.6	28.9	11.2	28.4	53.3	74.0	20.7	100	358
9	4573.741	40.9	31.1	13.7	28.2	57.5	74.0	16.5	100	226
10	5415.074	33.6	34.6	14.9	28.1	55.0	74.0	19	100	358
----- Vertical -----										
11	1368.590	52.6	24.4	7.0	28.5	55.5	74.0	18.5	100	1
12	1384.615	50.7	24.5	7.1	28.5	53.8	74.0	20.2	100	187
13	1536.859	47.4	24.6	7.6	28.5	51.1	74.0	22.9	100	1
14	1600.961	51.1	24.6	7.7	28.5	54.9	74.0	19.1	100	165
15	1705.128	48.7	24.6	7.9	28.5	52.7	74.0	21.3	100	173
16	1961.538	46.6	24.6	8.4	28.5	51.1	74.0	22.9	100	1
17	2923.090	41.8	28.7	10.4	28.4	52.5	74.0	21.5	100	202
18	3315.724	42.6	28.9	11.3	28.4	54.4	74.0	19.6	100	215
19	4509.639	39.8	30.9	13.5	28.2	56.0	74.0	18	100	1
20	5415.074	33.9	34.6	14.9	28.1	55.3	74.0	18.7	100	1

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

RADIATED EMISSION

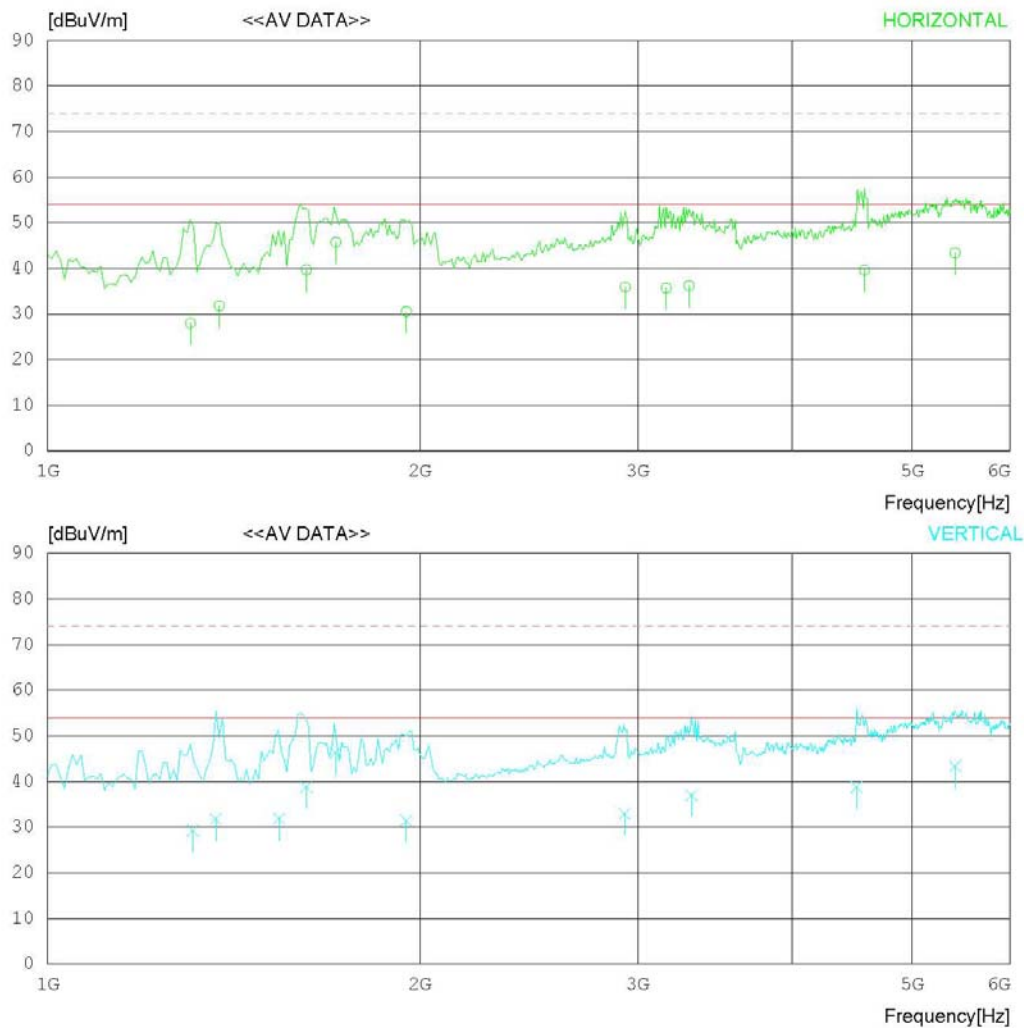
Date : 2013-02-12

Model Name : 32LN541C-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 19 °C 34 % 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 : 2013-02-12

Model Name : 32LN541C-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 34 % 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	1304.487	25.4	24.3	6.8	28.5	28.0	54.0	26.0	100	206
2	1376.602	28.7	24.5	7.1	28.5	31.8	54.0	22.2	100	211
3	1619.256	35.9	24.6	7.7	28.5	39.7	54.0	14.3	100	232
4	1710.000	41.7	24.6	7.9	28.5	45.7	54.0	8.3	100	338
5	1950.057	26.0	24.6	8.4	28.5	30.5	54.0	23.5	100	208
6	2931.103	25.1	28.8	10.4	28.4	35.9	54.0	18.1	100	221
7	3163.478	24.3	28.9	10.9	28.4	35.7	54.0	18.3	100	237
8	3300.500	24.5	28.9	11.2	28.4	36.2	54.0	17.8	100	179
9	4573.741	23.0	31.1	13.7	28.2	39.6	54.0	14.4	100	226
10	5415.074	22.0	34.6	14.9	28.1	43.4	54.0	10.6	100	358
----- Vertical -----										
11	1311.051	26.6	24.4	6.8	28.5	29.3	54.0	24.7	100	252
12	1368.057	28.9	24.4	7.0	28.5	31.8	54.0	22.2	100	187
13	1539.465	28.1	24.6	7.6	28.5	31.8	54.0	22.2	100	179
14	1619.259	35.1	24.6	7.7	28.5	38.9	54.0	15.1	100	165
15	1710.000	42.3	24.6	7.9	28.5	46.3	54.0	7.7	100	179
16	1950.057	26.9	24.6	8.4	28.5	31.4	54.0	22.6	100	179
17	2927.564	22.1	28.8	10.4	28.4	32.9	54.0	21.1	100	203
18	3315.724	25.2	28.9	11.3	28.4	37.0	54.0	17.0	100	199
19	4509.639	22.6	30.9	13.5	28.2	38.8	54.0	15.2	100	46
20	5415.074	22.0	34.6	14.9	28.1	43.4	54.0	10.6	100	4

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

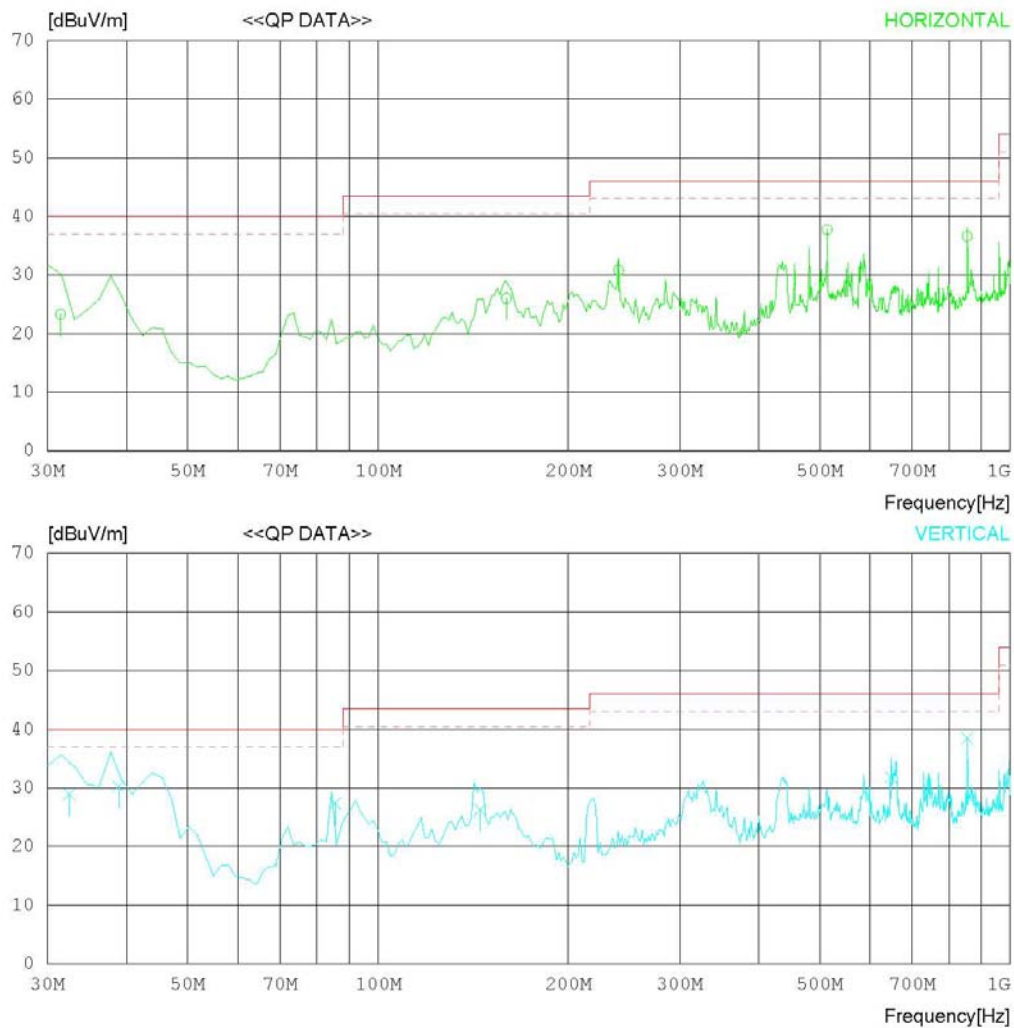
Date : 2013-02-12

Model Name : 32LN541C-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 19 °C 34 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-02-12

Model Name : 32LN541C-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 34 % 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	31.448	29.1	17.1	0.9	23.8	23.3	40.0	16.7	182	157
2	159.545	38.1	10.2	1.9	24.2	26.0	43.5	17.5	100	269
3	240.000	40.0	12.1	2.5	23.8	30.8	46.0	15.2	100	1
4	513.000	39.4	17.5	3.9	23.1	37.7	46.0	8.3	202	358
5	855.018	34.6	20.4	4.9	23.3	36.6	46.0	9.4	100	221
----- Vertical -----										
6	38.864	39.9	13.4	1.1	24.1	30.3	40.0	9.7	100	263
7	32.490	35.2	16.6	1.0	23.9	28.9	40.0	11.1	100	265
8	85.506	41.9	8.2	1.5	24.2	27.4	40.0	12.6	100	264
9	145.131	38.1	10.7	1.7	24.2	26.3	43.5	17.2	100	91
10	646.858	32.6	18.6	4.2	23.6	31.8	46.0	14.2	100	188
11	854.990	36.6	20.4	4.8	23.3	38.5	46.0	7.5	100	188

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

RADIATED EMISSION

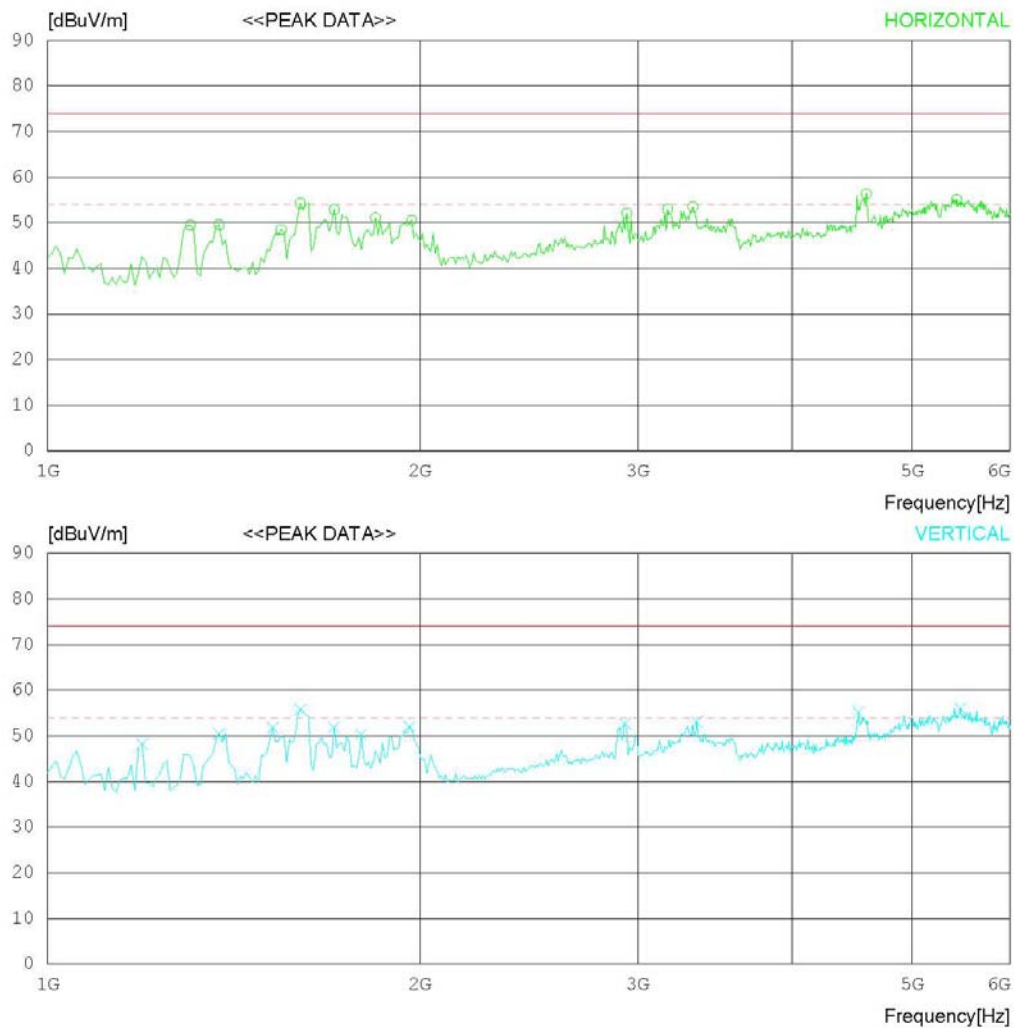
Date : 2013-02-12

Model Name : 32LN541C-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 19 °C 34 % 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 : 2013-02-12

Model Name	: 32LN541C-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 19 °C 34 % 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	1304.487	46.9	24.3	6.8	28.5	49.5	74.0	24.5	100	212
2	1376.602	46.5	24.5	7.1	28.5	49.6	74.0	24.4	100	1
3	1544.872	44.8	24.6	7.6	28.5	48.5	74.0	25.5	100	1
4	1600.961	50.5	24.6	7.7	28.5	54.3	74.0	19.7	100	1
5	1705.128	48.9	24.6	7.9	28.5	52.9	74.0	21.1	100	138
6	1841.346	46.9	24.6	8.1	28.5	51.1	74.0	22.9	100	1
7	1969.551	46.1	24.6	8.4	28.5	50.6	74.0	23.4	100	204
8	2939.115	41.3	28.8	10.4	28.4	52.1	74.0	21.9	100	1
9	3171.491	41.6	28.9	10.9	28.4	53.0	74.0	21	100	1
10	3323.737	41.7	28.9	11.3	28.4	53.5	74.0	20.5	100	1
11	4589.766	39.6	31.2	13.8	28.2	56.4	74.0	17.6	100	1
12	5431.099	33.6	34.7	14.9	28.1	55.1	74.0	18.9	100	254
----- Vertical -----										
13	1192.308	46.1	24.2	6.4	28.5	48.2	74.0	25.8	100	358
14	1376.602	47.4	24.5	7.1	28.5	50.5	74.0	23.5	100	197
15	1520.833	48.2	24.6	7.5	28.5	51.8	74.0	22.2	100	358
16	1600.961	52.0	24.6	7.7	28.5	55.8	74.0	18.2	100	358
17	1705.128	47.9	24.6	7.9	28.5	51.9	74.0	22.1	100	358
18	1793.269	46.1	24.6	8.1	28.5	50.3	74.0	23.7	100	221
19	1961.538	47.5	24.6	8.4	28.5	52.0	74.0	22	100	358
20	2931.103	41.9	28.8	10.4	28.4	52.7	74.0	21.3	100	358
21	3347.775	41.3	28.9	11.3	28.4	53.1	74.0	20.9	100	209
22	4525.665	38.8	31.0	13.5	28.2	55.1	74.0	18.9	100	358
23	5471.163	34.3	34.9	14.9	28.1	56.0	74.0	18	100	285

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

RADIATED EMISSION

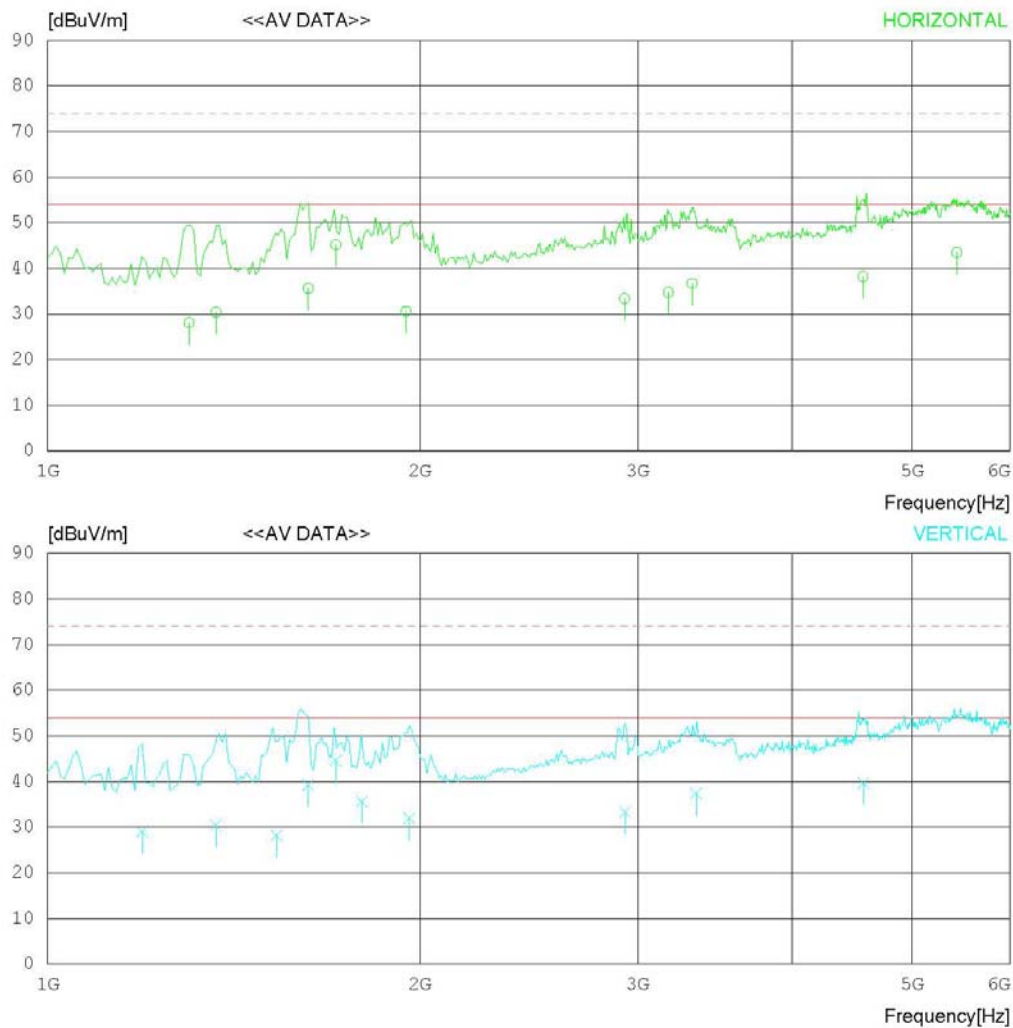
Date : 2013-02-12

Model Name : 32LN541C-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 19 °C 34 % 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 : 2013-02-12

Model Name : 32LN541C-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 34 % 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	1301.121	25.5	24.3	6.8	28.5	28.1	54.0	25.9	100	212
2	1368.301	27.5	24.4	7.0	28.5	30.4	54.0	23.6	100	1
3	1624.634	31.8	24.6	7.7	28.5	35.6	54.0	18.4	100	181
4	1710.000	41.2	24.6	7.9	28.5	45.2	54.0	8.8	100	138
5	1948.420	26.1	24.6	8.4	28.5	30.6	54.0	23.4	100	204
6	2926.503	22.6	28.8	10.4	28.4	33.4	54.0	20.6	100	199
7	3174.868	23.4	28.9	10.9	28.4	34.8	54.0	19.2	100	201
8	3318.278	24.9	28.9	11.3	28.4	36.7	54.0	17.3	100	240
9	4562.718	21.6	31.1	13.7	28.2	38.2	54.0	15.8	100	180
10	5431.099	22.0	34.7	14.9	28.1	43.5	54.0	10.5	100	254
----- Vertical -----										
11	1192.308	26.9	24.2	6.4	28.5	29.0	54.0	25.0	100	331
12	1368.301	27.5	24.4	7.0	28.5	30.4	54.0	23.6	100	197
13	1531.981	24.5	24.6	7.6	28.5	28.2	54.0	25.8	100	358
14	1624.634	35.5	24.6	7.7	28.5	39.3	54.0	14.7	100	179
15	1710.000	40.6	24.6	7.9	28.5	44.6	54.0	9.4	100	180
16	1795.727	31.4	24.6	8.1	28.5	35.6	54.0	18.4	100	169
17	1961.538	27.4	24.6	8.4	28.5	31.9	54.0	22.1	100	200
18	2929.782	22.5	28.8	10.4	28.4	33.3	54.0	20.7	100	176
19	3343.590	25.6	28.9	11.3	28.4	37.4	54.0	16.6	100	209
20	4564.561	23.1	31.1	13.7	28.2	39.7	54.0	14.3	100	200

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

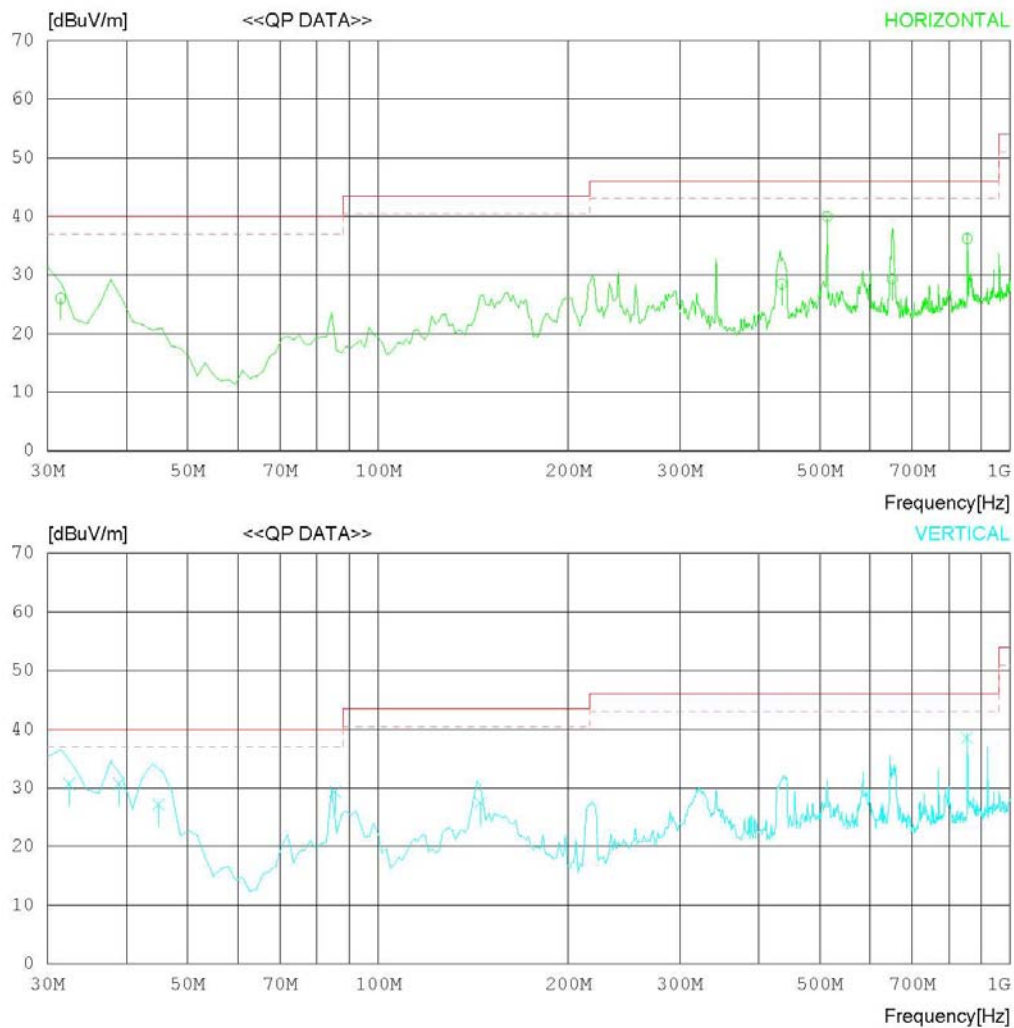
Date : 2013-02-12

Model Name : 32LN541C-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 19 °C 34 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-02-12

Model Name : 32LN541C-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 19 °C 34 % R.H.
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	31.461	31.8	17.1	0.9	23.8	26.0	40.0	14.0	201	168
2	434.782	31.8	16.5	3.5	23.3	28.5	46.0	17.5	201	161
3	513.000	41.7	17.5	3.9	23.1	40.0	46.0	6.0	202	241
4	650.759	30.1	18.6	4.2	23.6	29.3	46.0	16.7	202	359
5	855.000	34.2	20.4	4.9	23.3	36.2	46.0	9.8	100	160
----- Vertical -----										
6	32.433	37.0	16.6	1.0	23.9	30.7	40.0	9.3	100	167
7	38.897	40.3	13.4	1.1	24.1	30.7	40.0	9.3	100	255
8	44.945	36.5	13.9	1.1	24.3	27.2	40.0	12.8	100	172
9	85.498	43.9	8.2	1.5	24.2	29.4	40.0	10.6	100	169
10	145.171	39.3	10.7	1.7	24.2	27.5	43.5	16.0	100	345
11	855.000	36.6	20.4	4.9	23.3	38.6	46.0	7.4	100	190

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

RADIATED EMISSION

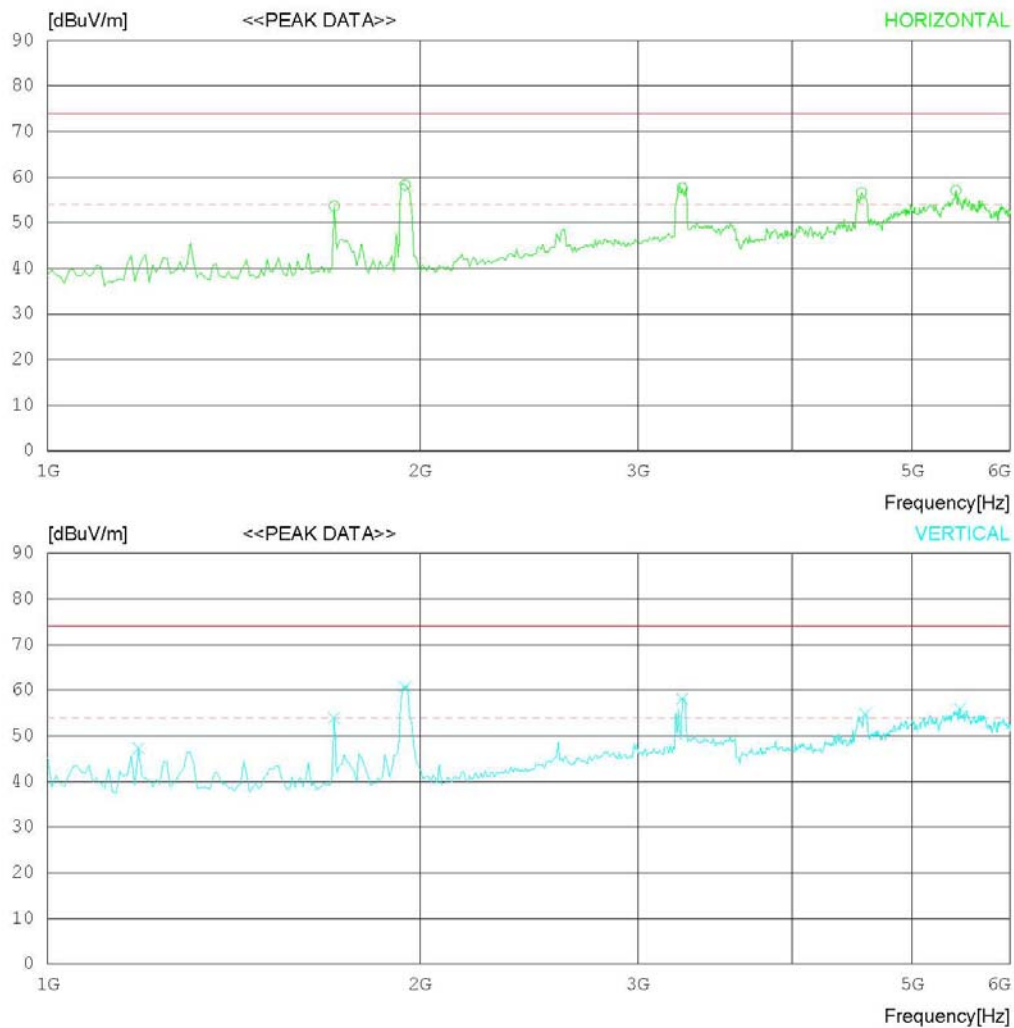
Date : 2013-02-12

Model Name : 32LN541C-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 19 °C 34 % 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 : 2013-02-12

Model Name : 32LN541C-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 34 % 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	1705.128	49.7	24.6	7.9	28.5	53.7	74.0	20.3	100	140
2	1945.512	53.9	24.6	8.3	28.5	58.3	74.0	15.7	100	166
3	3259.633	46.0	28.9	11.1	28.4	57.6	74.0	16.4	100	193
4	4549.703	40.1	31.1	13.6	28.2	56.6	74.0	17.4	100	358
5	5423.086	35.6	34.7	14.9	28.1	57.1	74.0	16.9	100	98
----- Vertical -----										
6	1184.295	45.2	24.2	6.4	28.5	47.3	74.0	26.7	100	180
7	1705.128	49.9	24.6	7.9	28.5	53.9	74.0	20.1	100	171
8	1945.512	56.3	24.6	8.3	28.5	60.7	74.0	13.3	100	1
9	3259.633	46.5	28.9	11.1	28.4	58.1	74.0	15.9	100	175
10	4581.753	38.0	31.2	13.8	28.2	54.8	74.0	19.2	100	1
11	5463.150	34.2	34.9	14.9	28.1	55.9	74.0	18.1	100	254

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

RADIATED EMISSION

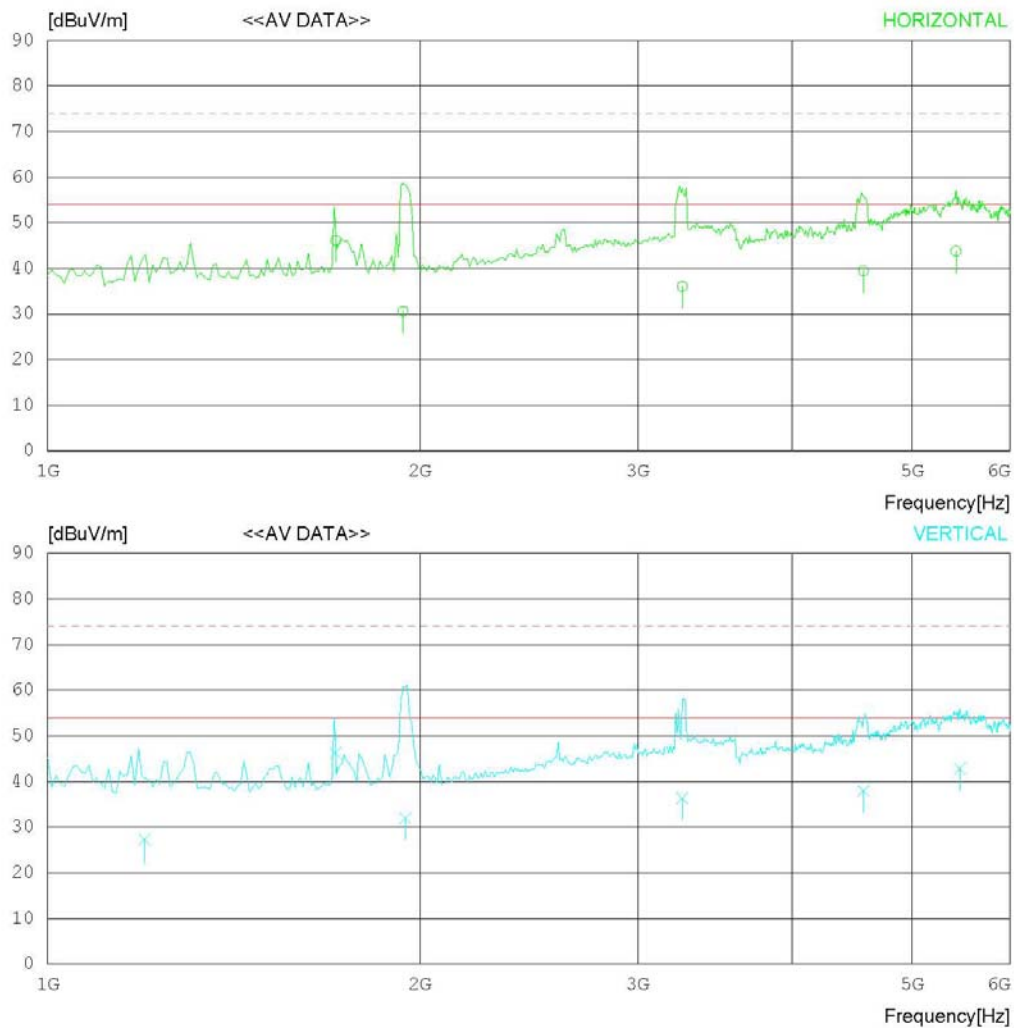
Date : 2013-02-12

Model Name : 32LN541C-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 19 °C 34 % 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 : 2013-02-12

Model Name : 32LN541C-UA	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °C 34 % 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	1710.000	42.1	24.6	7.9	28.5	46.1	54.0	7.9	100	169
2	1938.564	26.2	24.6	8.3	28.5	30.6	54.0	23.4	100	166
3	3259.602	24.5	28.9	11.1	28.4	36.1	54.0	17.9	100	166
4	4567.526	22.9	31.1	13.7	28.2	39.5	54.0	14.5	100	164
5	5423.086	22.3	34.7	14.9	28.1	43.8	54.0	10.2	100	98
----- Vertical -----										
6	1197.782	25.1	24.2	6.4	28.5	27.2	54.0	26.8	100	180
7	1710.000	42.3	24.6	7.9	28.5	46.3	54.0	7.7	100	156
8	1947.458	27.5	24.6	8.4	28.5	32.0	54.0	22.0	100	197
9	3259.603	24.7	28.9	11.1	28.4	36.3	54.0	17.7	100	175
10	4567.526	21.4	31.1	13.7	28.2	38.0	54.0	16.0	100	1
11	5463.150	21.1	34.9	14.9	28.1	42.8	54.0	11.2	100	254

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	2013.01.08	2014.01.08
☐ LISN	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2012.07.25	2013.07.25
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2013.01.08	2014.01.08
☒ 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	2013.01.08	2014.01.08

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2013.01.08	2014.01.08
☒ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.11.06	2014.11.06
☒ HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2012.05.15	2014.05.15
☒ AMPLIFIER	8447E	H/P	2945A02865	2013.01.08	2014.01.08
☒ 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
☐ 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

Appendix 2

Report Revision History

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