

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 39LN5750-UH
Order No. : DEMC1301-00382
Date of receipt : 2013-01-29
Test duration : 2013-02-05 ~ 2013-02-06
Use of report : FCC CoC Marking
Date of Issue : 2013-02-08

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 ~ 21) °C,
Humidity : (38 ~ 40) % 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.

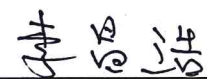
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Tested by:

Reviewed by:



Manager
HyunSuk Ko



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.	39LN5750-UH
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ39LN5750UH
Type of Sample Tested	Pre-Production
High Frequency	Max 800 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.5 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	67.50	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	02-05	21	40
Radiated Disturbance	02-06	20	38

4.3 Test result Summary

(1) Conducted Emission (HDMI MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.15458	N	41.8	Average	55.8	14.0

(2) Radiated Emission (HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
2754.818	H	69.0	Peak	74.0	5.0

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	VOSTRO220	G3RZKBX	DELL INC.	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.8	Not use	Shield		
				PS2	1.8	Not use	Shield		
				PS2	1.8	Not use	Shield		
				USB	1.5	Not use	Shield		
				LAN	1.6	Not use	Non-shield		
				STEREO	1.5	Not use	Non-shield		
KEYBOARD	SKG-210PB	TAKSB2450 3Y	MONITEREY INTERNATIONAL CORP	PS/2	1.8	Not use	Shield	Plastic	DOC
MOUSE	M-SBF96	LZ948B105 W1	LOGITECH INC.	PS/2	1.8	Not use	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	SRP770080 60035	Bixolon	POWER USB	1.5 1.6	Not use Not use	Non-shield Shield	Plastic	DOC
Remote Control	AN-MR400K	N/A	OHSUNG ELECTRONIC	-	-	-	-	-	-
Headset	COV903	N/A	COSY	STEREO	1.5	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

< HDMI MODE >



Results of Conducted Emission

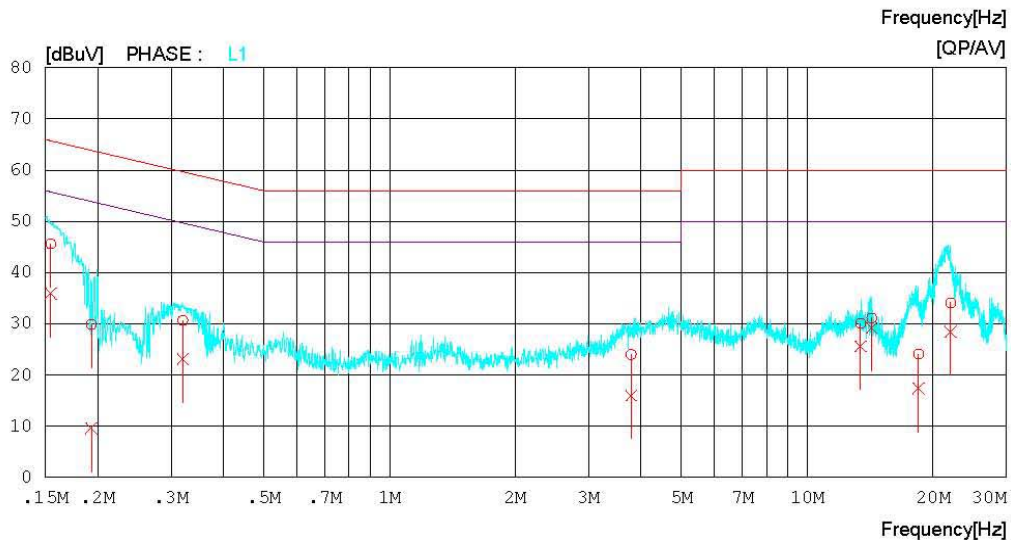
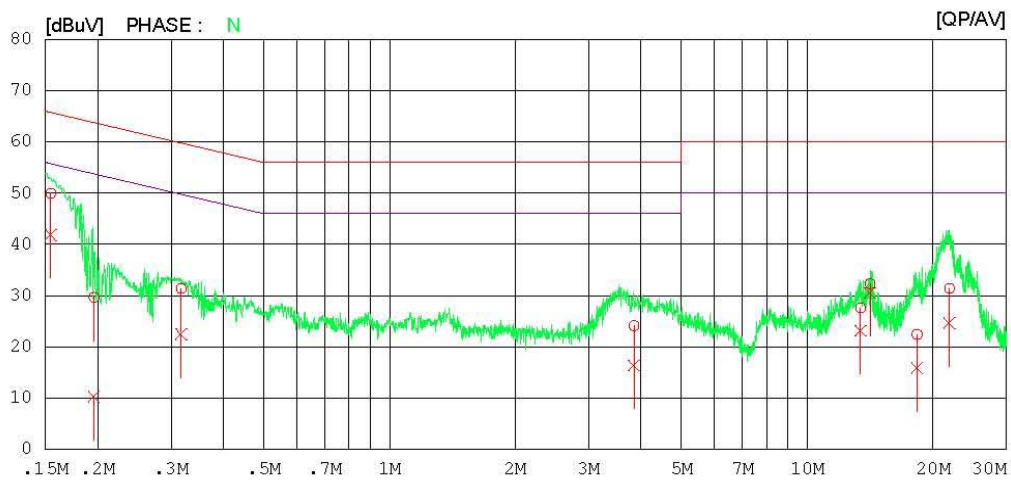
Digital EMC
Date : 2013-02-05

Model No. : 39LN5750-UH
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-05

Model No. : 39LN5750-UH
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % 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	0.15458	49.8	41.6	0.2	50.0	41.8	65.8	55.8	15.8	14.0	N
2	0.19615	29.4	10.0	0.2	29.6	10.2	63.8	53.8	34.2	43.6	N
3	0.31720	31.2	22.2	0.2	31.4	22.4	59.8	49.8	28.4	27.4	N
4	3.85100	23.8	16.1	0.3	24.1	16.4	56.0	46.0	31.9	29.6	N
5	13.42300	26.9	22.4	0.7	27.6	23.1	60.0	50.0	32.4	26.9	N
6	14.15300	31.6	29.8	0.7	32.3	30.5	60.0	50.0	27.7	19.5	N
7	18.32500	21.5	15.0	0.9	22.4	15.9	60.0	50.0	37.6	34.1	N
8	21.90950	30.5	23.8	0.9	31.4	24.7	60.0	50.0	28.6	25.3	N
9	0.15453	45.4	35.7	0.2	45.6	35.9	65.8	55.8	20.2	19.9	L1
10	0.19330	29.7	9.4	0.2	29.9	9.6	63.9	53.9	34.0	44.3	L1
11	0.32023	30.5	22.9	0.2	30.7	23.1	59.7	49.7	29.0	26.6	L1
12	3.79250	23.7	15.7	0.3	24.0	16.0	56.0	46.0	32.0	30.0	L1
13	13.42150	29.4	25.0	0.7	30.1	25.7	60.0	50.0	29.9	24.3	L1
14	14.27400	30.4	28.5	0.7	31.1	29.2	60.0	50.0	28.9	20.8	L1
15	18.47550	23.2	16.5	0.9	24.1	17.4	60.0	50.0	35.9	32.6	L1
16	22.05550	33.2	27.6	0.9	34.1	28.5	60.0	50.0	25.9	21.5	L1

< USB MODE >



Results of Conducted Emission

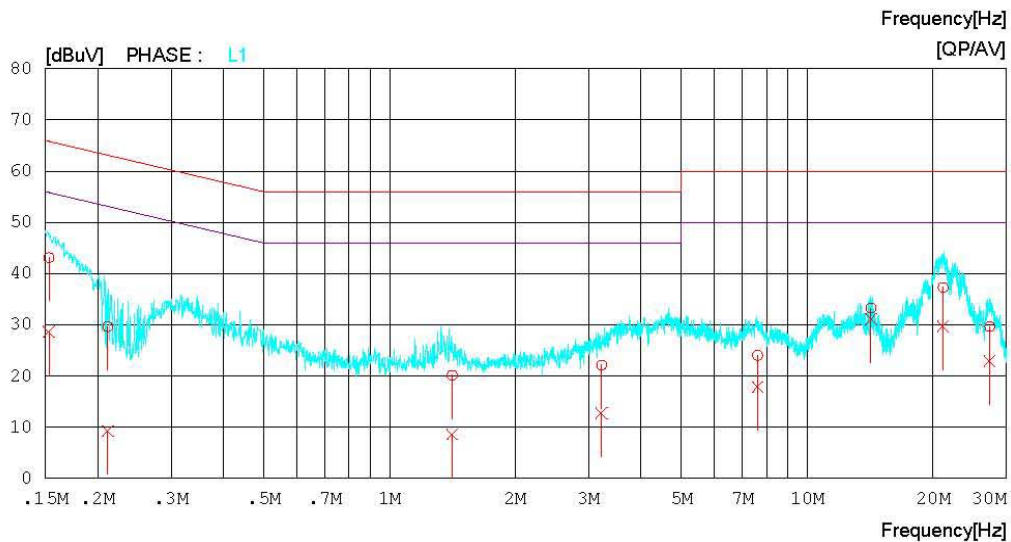
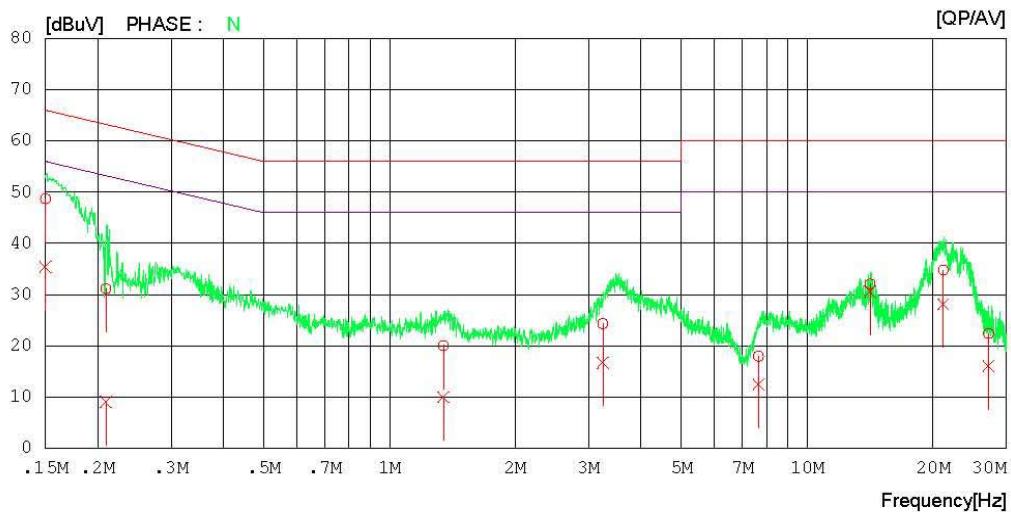
Digital EMC
Date : 2013-02-05

Model No. : 39LN5750-UH
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-05

Model No. : 39LN5750-UH
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % 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	0.15012	48.5	35.1	0.2	48.7	35.3	66.0	56.0	17.3	20.7	N
2	0.20943	30.9	8.8	0.2	31.1	9.0	63.2	53.2	32.1	44.2	N
3	1.34550	19.7	9.7	0.3	20.0	10.0	56.0	46.0	36.0	36.0	N
4	3.24300	24.0	16.4	0.3	24.3	16.7	56.0	46.0	31.7	29.3	N
5	7.64600	17.5	12.0	0.5	18.0	12.5	60.0	50.0	42.0	37.5	N
6	14.15300	31.3	29.9	0.7	32.0	30.6	60.0	50.0	28.0	19.4	N
7	21.16250	33.9	27.2	0.9	34.8	28.1	60.0	50.0	25.2	21.9	N
8	27.17350	21.4	15.1	1.0	22.4	16.1	60.0	50.0	37.6	33.9	N
9	0.15295	42.9	28.5	0.2	43.1	28.7	65.8	55.8	22.7	27.1	L1
10	0.21159	29.5	9.1	0.2	29.7	9.3	63.1	53.1	33.4	43.8	L1
11	1.41300	19.9	8.3	0.3	20.2	8.6	56.0	46.0	35.8	37.4	L1
12	3.22100	21.8	12.5	0.3	22.1	12.8	56.0	46.0	33.9	33.2	L1
13	7.61050	23.5	17.4	0.5	24.0	17.9	60.0	50.0	36.0	32.1	L1
14	14.21550	32.6	30.4	0.7	33.3	31.1	60.0	50.0	26.7	18.9	L1
15	21.15200	36.4	28.9	0.9	37.3	29.8	60.0	50.0	22.7	20.2	L1
16	27.36450	28.7	21.9	1.0	29.7	22.9	60.0	50.0	30.3	27.1	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

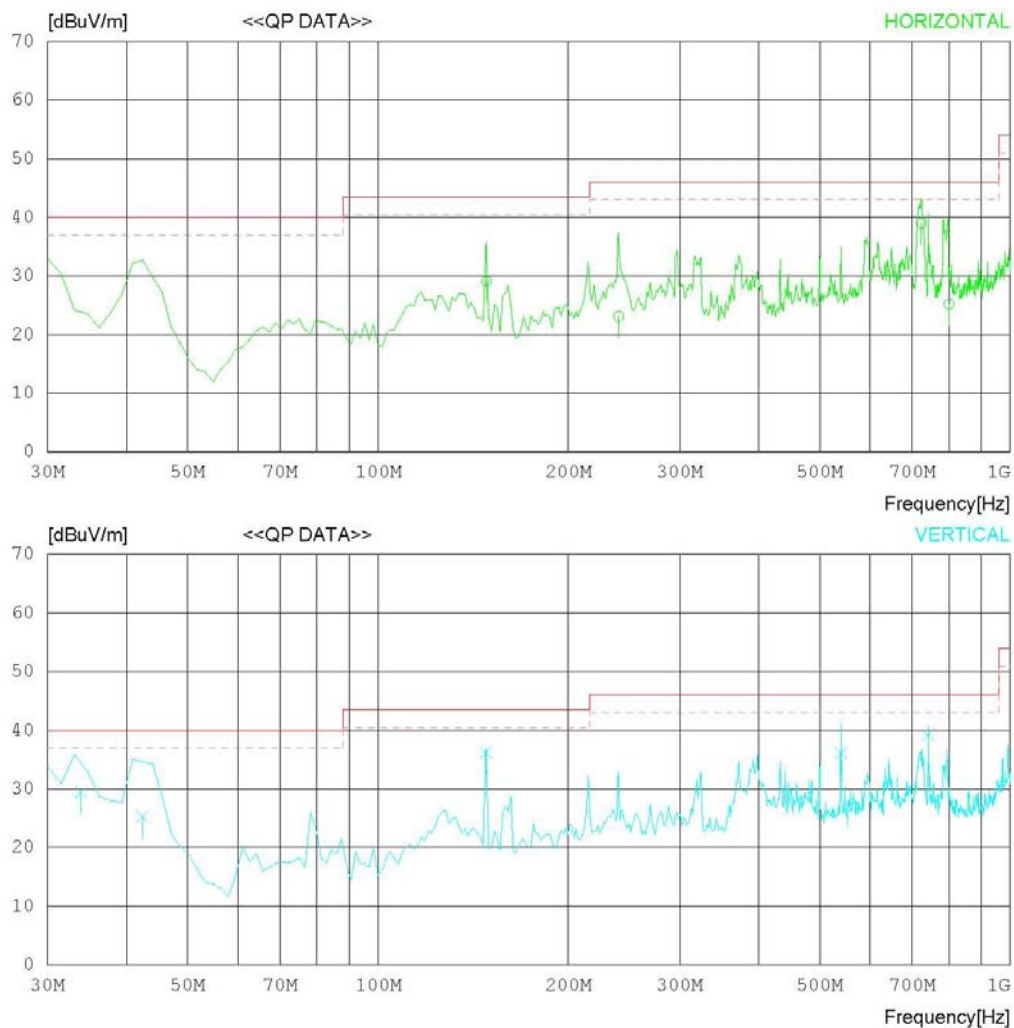
Date : 2013-02-06

Model Name : 39LN5750-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-02-06

Model Name : 39LN5750-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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	148.384	41.1	10.5	1.7	24.2	29.1	43.5	14.4	297	312
2	240.062	32.3	12.1	2.5	23.8	23.1	46.0	22.9	140	89
3	723.490	39.2	18.9	4.6	23.7	39.0	46.0	7.0	307	139
4	800.000	23.8	20.0	4.9	23.5	25.2	46.0	20.8	312	297
----- Vertical -----										
5	33.889	36.6	15.8	1.0	23.9	29.5	40.0	10.5	100	278
6	42.331	35.1	13.3	1.1	24.2	25.3	40.0	14.7	132	21
7	148.360	48.2	10.5	1.7	24.2	36.2	43.5	7.3	114	234
8	540.048	37.6	17.9	3.8	23.2	36.1	46.0	9.9	189	279
9	741.774	39.2	19.1	4.6	23.7	39.2	46.0	6.8	342	129

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

RADIATED EMISSION

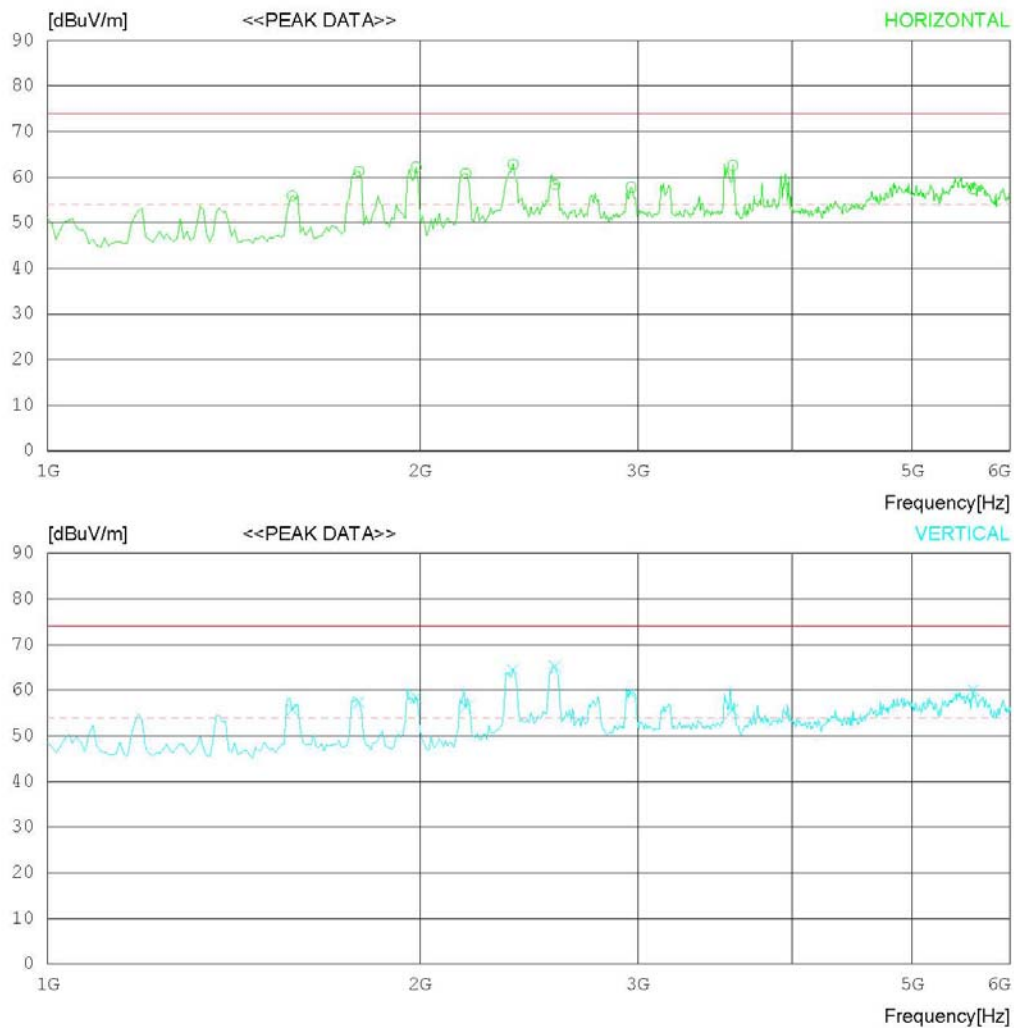
Date : 2013-02-06

Model Name : 39LN5750-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 39LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % 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	1576.923	59.3	24.6	7.6	35.6	55.9	74.0	18.1	100	358
2	1785.256	64.3	24.6	8.0	35.6	61.3	74.0	12.7	100	164
3	1985.577	64.8	24.6	8.4	35.6	62.2	74.0	11.8	100	221
4	2177.886	62.2	25.6	8.8	35.8	60.8	74.0	13.2	100	198
5	2378.210	62.6	26.7	9.3	35.8	62.8	74.0	11.2	100	271
6	2570.520	56.5	27.7	9.7	35.5	58.4	74.0	15.6	100	206
7	2963.154	54.2	28.9	10.4	35.7	57.8	74.0	16.2	100	358
8	3580.151	56.9	29.1	11.9	35.3	62.6	74.0	11.4	100	358
9	5599.366	44.2	34.4	15.0	36.2	57.4	74.0	16.6	100	358
----- Vertical -----										
10	1576.923	59.1	24.6	7.6	35.6	55.7	74.0	18.3	100	1
11	1785.256	60.3	24.6	8.0	35.6	57.3	74.0	16.7	100	205
12	1985.577	61.1	24.6	8.4	35.6	58.5	74.0	15.5	100	1
13	2177.886	57.8	25.6	8.8	35.8	56.4	74.0	17.6	100	196
14	2378.210	64.3	26.7	9.3	35.8	64.5	74.0	9.5	100	1
15	2570.520	63.3	27.7	9.7	35.5	65.2	74.0	8.8	100	1
16	2963.154	55.7	28.9	10.4	35.7	59.3	74.0	14.7	100	194
17	3580.151	49.9	29.1	11.9	35.3	55.6	74.0	18.4	100	224
18	5599.366	46.9	34.4	15.0	36.2	60.1	74.0	13.9	100	1

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

RADIATED EMISSION

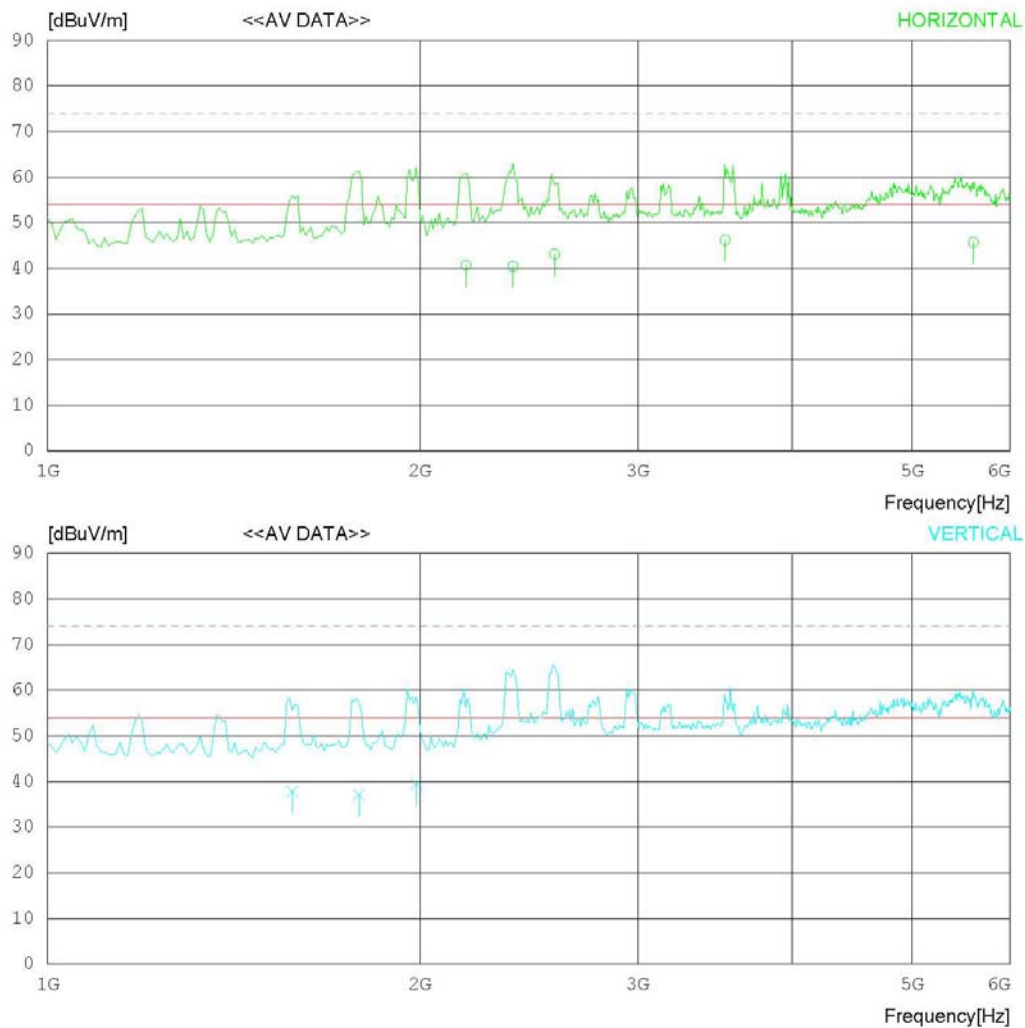
Date : 2013-02-06

Model Name : 39LN5750-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 39LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % 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	2178.987	42.1	25.6	8.8	35.8	40.7	54.0	13.3	100	127
2	2377.642	40.2	26.7	9.3	35.8	40.4	54.0	13.6	100	260
3	2569.798	41.2	27.7	9.7	35.5	43.1	54.0	10.9	100	211
4	3528.664	40.9	29.0	11.8	35.5	46.2	54.0	7.8	100	37
5	5601.270	32.4	34.4	15.1	36.2	45.7	54.0	8.3	100	39
----- Vertical -----										
6	1577.397	41.2	24.6	7.6	35.6	37.8	54.0	16.2	100	134
7	1786.887	40.1	24.6	8.0	35.6	37.1	54.0	16.9	100	127
8	1987.278	42.2	24.6	8.4	35.6	39.6	54.0	14.4	100	139

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

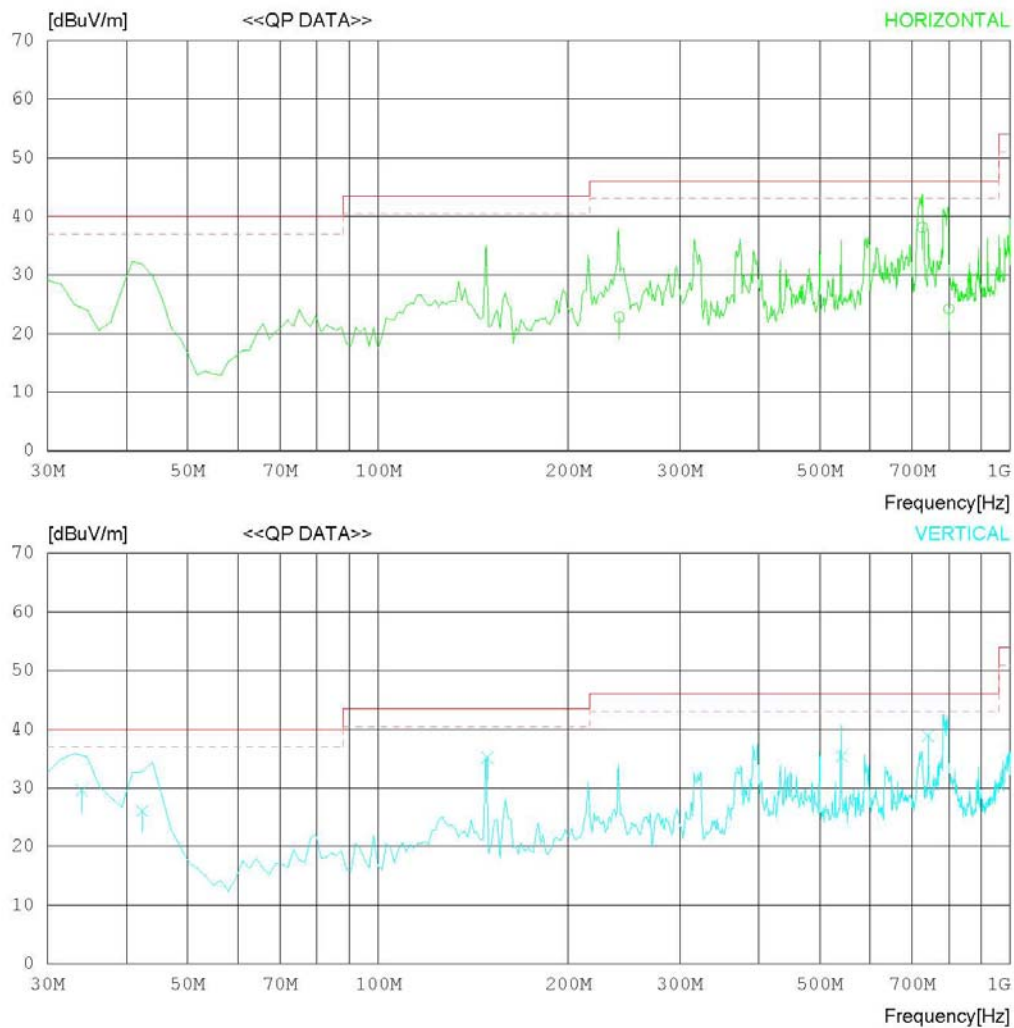
Date : 2013-02-06

Model Name : 39LN5750-UH
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-02-06

Model Name : 39LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °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	240.724	31.9	12.2	2.5	23.8	22.8	46.0	23.2	128	301
2	725.997	38.3	18.9	4.6	23.7	38.1	46.0	7.9	345	132
3	799.554	22.9	20.0	4.8	23.5	24.2	46.0	21.8	354	287
----- Vertical -----										
4	33.978	36.7	15.8	1.0	23.9	29.6	40.0	10.4	109	137
5	42.399	35.8	13.4	1.1	24.2	26.1	40.0	13.9	132	124
6	148.992	47.2	10.5	1.7	24.2	35.2	43.5	8.3	114	248
7	541.589	36.9	17.9	3.8	23.2	35.4	46.0	10.6	140	312
8	741.478	38.9	19.1	4.6	23.7	38.9	46.0	7.1	278	127

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

RADIATED EMISSION

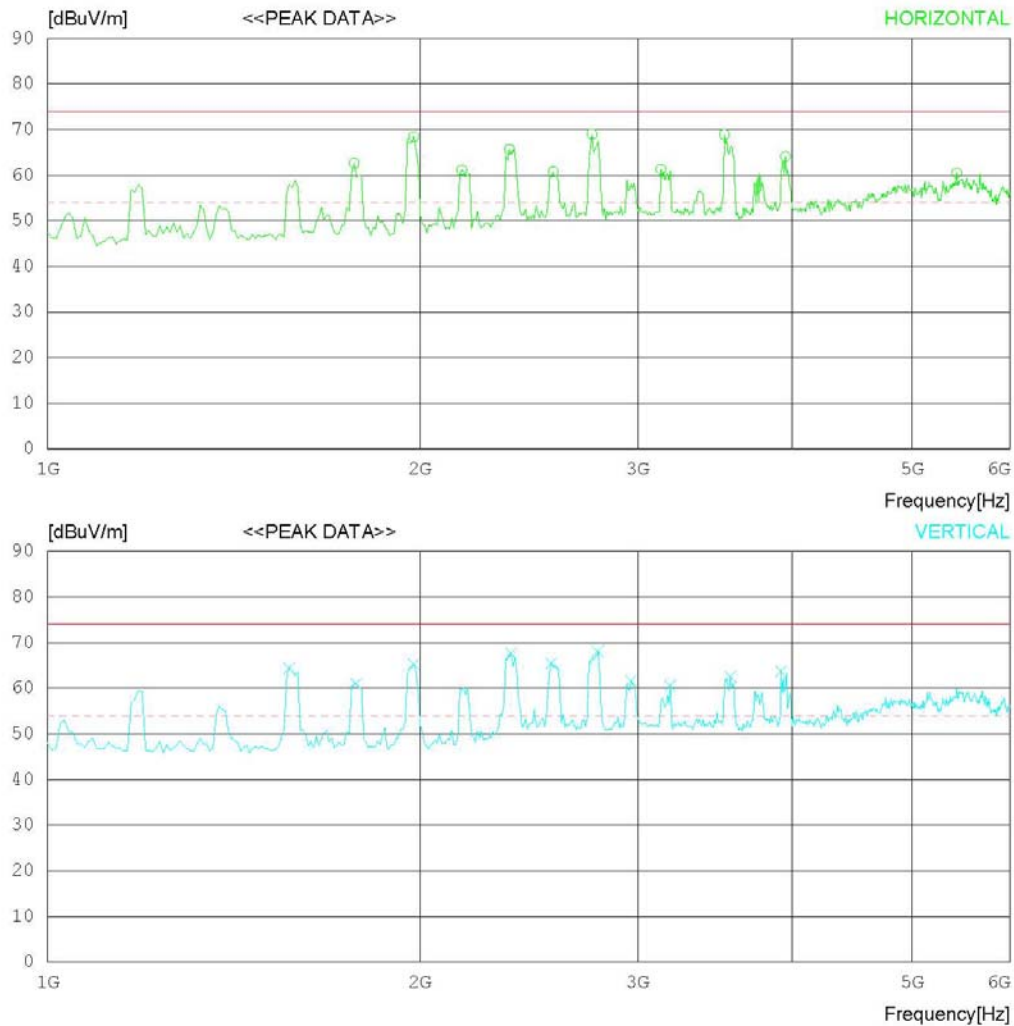
Date : 2013-02-06

Model Name : 39LN5750-UH
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 39LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % 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	1769.230	65.6	24.6	8.0	35.6	62.6	74.0	11.4	100	217
2	1977.564	71.1	24.6	8.4	35.6	68.5	74.0	5.5	100	226
3	2161.860	62.6	25.5	8.8	35.8	61.1	74.0	12.9	100	236
4	2362.184	65.6	26.7	9.2	35.8	65.7	74.0	8.3	100	358
5	2562.507	59.0	27.6	9.7	35.5	60.8	74.0	13.2	100	204
6	2754.818	66.3	28.2	10.0	35.5	69.0	74.0	5	100	358
7	3131.426	57.5	29.0	10.8	36.0	61.3	74.0	12.7	100	358
8	3524.060	63.7	28.9	11.8	35.5	68.9	74.0	5.1	100	230
9	3948.746	57.3	30.0	12.8	36.0	64.1	74.0	9.9	100	174
10	5431.099	47.3	34.7	14.9	36.4	60.5	74.0	13.5	100	358
----- Vertical -----										
11	1568.910	67.8	24.6	7.6	35.6	64.4	74.0	9.6	100	1
12	1777.243	64.0	24.6	8.0	35.6	61.0	74.0	13	100	203
13	1977.564	67.9	24.6	8.4	35.6	65.3	74.0	8.7	100	1
14	2370.197	67.5	26.7	9.3	35.8	67.7	74.0	6.3	100	1
15	2554.494	63.8	27.6	9.6	35.5	65.5	74.0	8.5	100	1
16	2786.870	65.2	28.3	10.1	35.5	68.1	74.0	5.9	100	1
17	2963.154	58.0	28.9	10.4	35.7	61.6	74.0	12.4	100	1
18	3187.517	56.8	28.9	11.0	36.1	60.6	74.0	13.4	100	217
19	3564.125	57.0	29.0	11.9	35.4	62.5	74.0	11.5	100	208
20	3916.694	56.9	29.9	12.7	35.8	63.7	74.0	10.3	100	238

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

RADIATED EMISSION

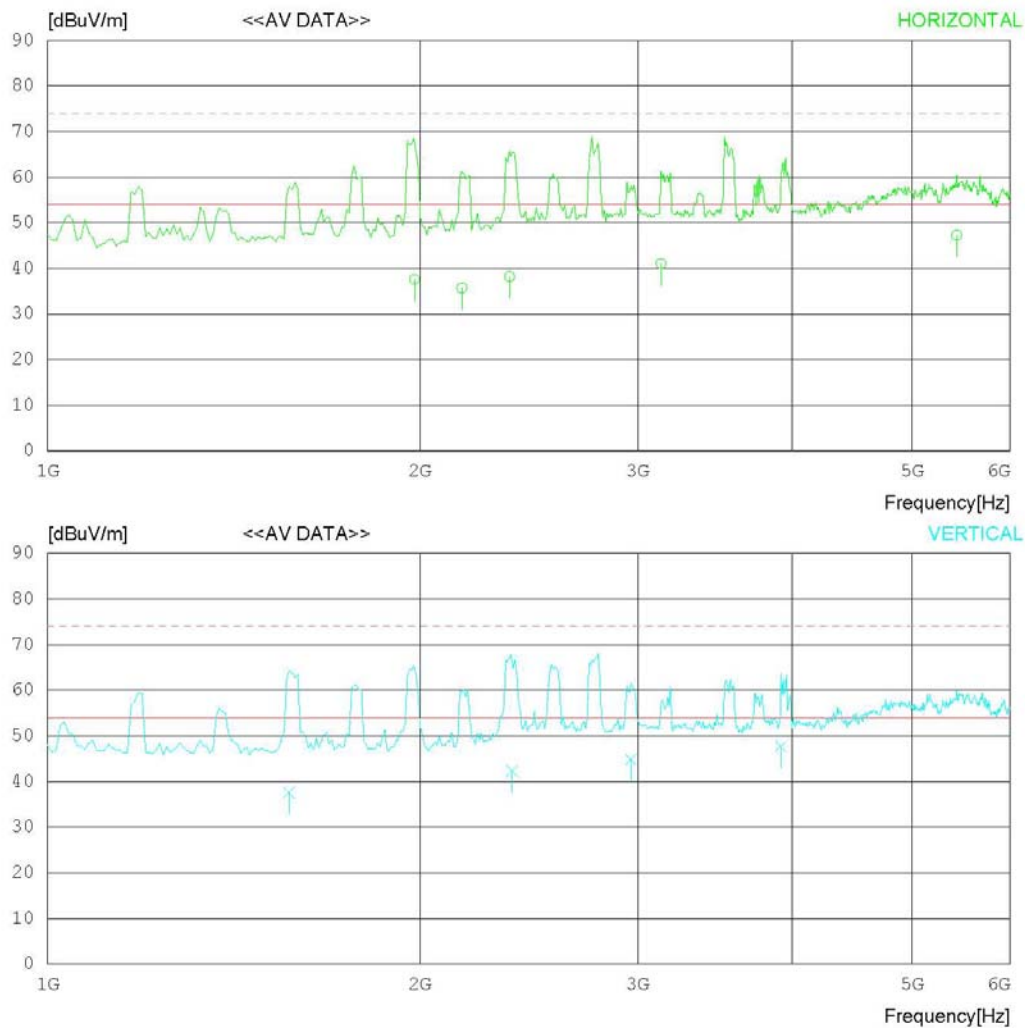
Date : 2013-02-06

Model Name : 39LN5750-UH
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 39LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % 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	1980.248	40.2	24.6	8.4	35.6	37.6	54.0	16.4	100	127
2	2162.795	37.2	25.5	8.8	35.8	35.7	54.0	18.3	100	321
3	2362.997	38.1	26.7	9.2	35.8	38.2	54.0	15.8	100	126
4	3132.793	37.2	29.0	10.8	36.0	41.0	54.0	13.0	100	358
5	5430.276	34.1	34.7	14.9	36.4	47.3	54.0	6.7	100	149
----- Vertical -----										
6	1567.349	41.0	24.6	7.6	35.6	37.6	54.0	16.4	100	1
7	2374.150	42.1	26.7	9.3	35.8	42.3	54.0	11.7	100	197
8	2963.154	41.2	28.9	10.4	35.7	44.8	54.0	9.2	100	1
9	3914.587	40.9	29.9	12.7	35.8	47.7	54.0	6.3	100	127

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