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<http://www.digitalemcc.com>

FCC Test Report

for

LCD TV Monitor

Applicant : LG Electronics Inc.

Model Number : 37LD650H-UA

Manufacturer : LG Electronics Inc.

ANSI C 63.4:2003

Test Standard : FCC Part 15 Subpart B

(Type of Device : Class B Computing Device Peripheral (JBP))

Date of Tests : May 24 ~ June 25, 2010

Date of Issue : July 05, 2010

Tested by : M.K.KIM/Engineer

Reviewed by : M.J.SONG/Manager

A handwritten signature in black ink, appearing to read "mkleim", written over a horizontal line.

A handwritten signature in black ink, appearing to be a stylized "MJS", written over a horizontal line.

This test result only responds to the tested sample.

It is not allowed to copy this report even partly without the allowance of the test laboratory.

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1. General Remarks

This Report describes the emission characteristics of the tested product.

If the product will be used with additional equipment other than those mentioned in this report or if the tested product will be used against the manufacture's specifications, the compliance with the relevant standards for the system has to be ensured.

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	Test Facility list & NSA Data
	Japan	VCCI	C-1427, C-2807 R-1364, R-2556 T-1442	Test Facility list & NSA Data
Certification	Korea	KCC	KR0034	Test Facility list & NSA Data
	Germany	TUV	ROK0826C	ISO/IEC 17025

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

DIGITAL EMC CO., LTD.

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3. General Information of EUT

3.1 Product Information

Equipment under Test	LCD TV Monitor
Model No.	37LD650H-UA
Add Model No.	37LD655H-UA
Serial No	NONE
Type of Sample Tested	Pre-Production
Rating Power Supply	AC120V, 60Hz
High Frequency	513MHz,1920*1080(HDMI,D sub max resolution)
Supplied Power for Test	AC120V, 60Hz
Applicant	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea
Manufacturer	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea
Factory	LG Electronics Reynosa, Inc. LG Electronics USA, Inc_Reynosa 9801 South Cage Blvd. Suite 3F Pharr, TX. 78577
Date of Receipt of Sample	2010-06-18

< Resolution >

RGB-PC			HDMI-PC		
Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x400	31.469	70.08	720x400	31.469	70.08
640x480	31.469 37.861	59.94 72.80	640x480	31.469	59.94
800x600	37.879 48.077	60.31 72.18	800x600	35.156 37.879	56.25 60.31
1024x768	48.363 56.476	60.00 70.06	1024x768	48.363	60.00
1280x768	47.776 60.289	59.870 74.893	1280x768	47.776	59.87
1360x768	47.712	60.015	1360x768	47.712	60.015
1280x1024	63.981 79.976	60.020 75.025	1280x1024	63.981	60.02
1920x1080	66.587	59.934	1920x1080	67.50	60.00

Depending on models

Depending on models

4. Test Summary

4.1 Summary of tests

The applied standards to evaluate the compliance of requirements is 47CFR Part 15, Subpart B and the measurement procedures specified in ANSI C63.4 are performed.

Test Items	Applied Standards	Status
Emission		
Conducted Emission	FCC Part 15 Subpart B	C
Radiated Emission	FCC Part 15 Subpart B	C
Note 1: C=Conform NC=Not Conform NT=Not Tested NA=Not Applicable		

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 : Resolution 1920*1080 MAX, "H" character scroll
- DVI to HDMI mode : Resolution 1920*1080 MAX, "H" character scroll
- USB MP3 mode : MP3 play

EUT is the following operational conditions apply:

- a) Set the contrast control to maximum.
- b) Set the brightness control to maximum or at raster extinction if raster extinction occurs at less than maximum brightness.
- c) For color monitors, use white letters on a black background to represent all colors.
- d) Select the worse case of positive or negative video if both alternatives are available.
- e) Set character size and number of characters per line so that the typical maximum number of characters per screen is displayed.
- f) For a monitor that has no graphics capabilities, regardless of the video card used, a pattern consisting of random text shall be displayed. For a monitor with graphics capability, even though another videocard may be needed to accomplish a graphic display, a screen pattern consisting of lines of scrolling H's should be displayed. For a monitor that has no text capabilities, use a typical display. That pattern should be used for the remainder of the tests.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE			Backshell	FCC ID
				Connect type	Length (m)	shield		
PC	DM-V60	671K9NCP100324M	SAMSUNG	DSUB	1.6	Shield	Plastic	DOC
				DVI	1.8	Shield	Plastic	
				Stereo	1.6	Non-shield	Plastic	
				LAN	1.5	Non-shield	Plastic	
				USB	-	-	Plastic	
Keyboard	SEM-DT35	3V012781	SAMSUNG	PS/2	1.6	Non-shield	Plastic	DOC
Mouse	SMOP5000WX	5060033739	CHIC TECHNOLOGY CORP	PS/2	1.6	Non-shield	Plastic	DOC
Printer	SRP-770	N/A	BIXOLON	LPT	1.8	Shield	Plastic	DOC

NOTE

- See "APPENDIX 1 Photographs" for actual system test setup

6. Test Results : Emission

6.1 Conducted Emission

RESULT : COMPLY

6.1.1 Measurement Procedure

In the range of 0.15MHz to 30MHz, the conducted emission was measured and set-up was made accordance with **ANSI C63.4:2003**.

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8m above the reference ground plane and 0.4m 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 0.15m 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 TOYO conducted emission test software, the emissions were scanned from 150KHz to 30MHz 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 List of Test and Measurement Instruments

Name of Instrument	Model No.	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
Spectrum Analyzer	8591E	3649A05889	H.P	2010.03.12	2011.03.12
RFI/Field intensity Meter	KNM-2402	4N-170-3	KYORITSU	2010.07.02	2011.07.02
LISN	KNW-407	8-317-8	KYORITSU	2010.01.29	2011.01.29
LISN	KNW-242	8-654-15	KYORITSU	2010.01.29	2011.01.29
50 ohm Terminator	CT-01	N/A	TME	2010.01.12	2011.01.12

6.1.3 Limit for Conducted Emission

(1) Conducted Emission at mains ports of class A

Frequency range (MHz)	Limits dB(μ V)	
	Quasi-peak	Average
0.15 to 0.50	79	66
0.50 to 30	73	60
Note The lower limit shall apply at the transition frequencies.		

(2) Conducted Emission at mains ports of class B

Frequency range (MHz)	Limits dB(μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	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 0.15MHz to 0.5MHz.		

6.1.4 Test Result

Test date	June 25, 2010
Ambient Temperature	20
Relative Humidity	40 % R.H.

Result : For the measurement data, see next page.

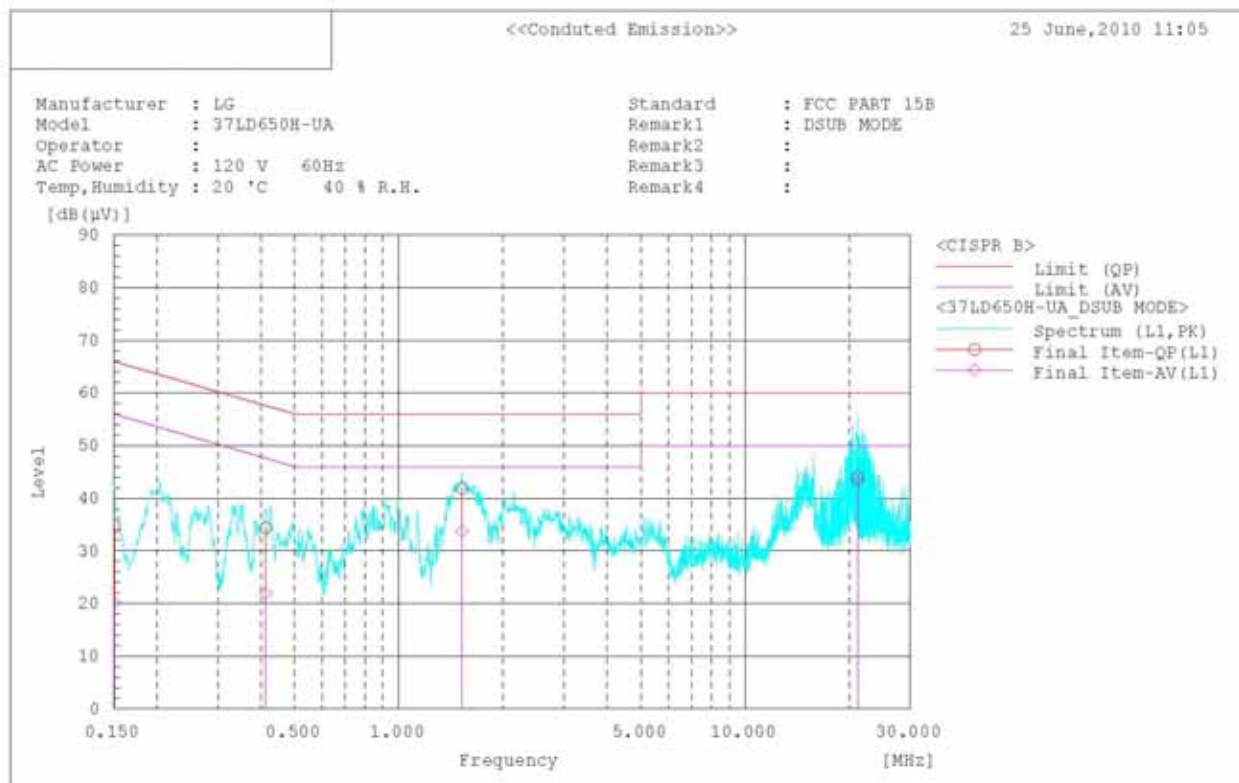
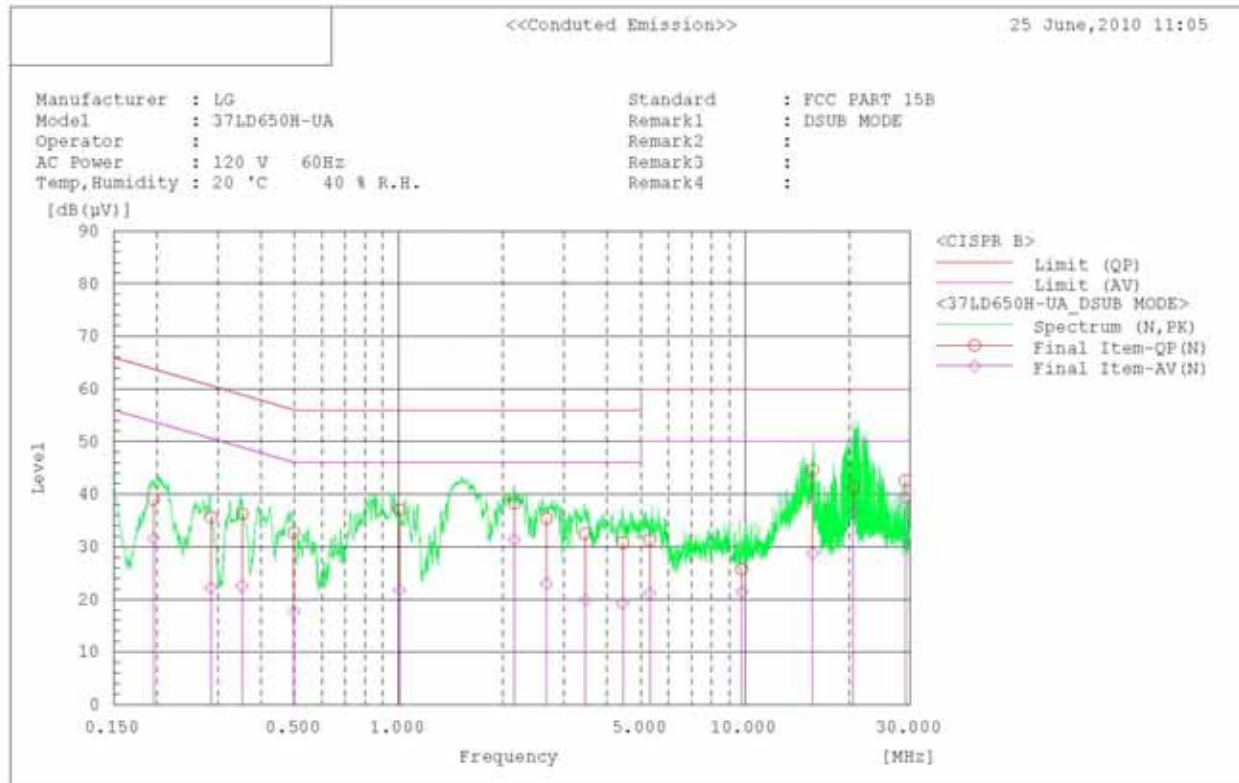
Note) 1. Emission Level = Reading Value + Correction Factor.

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

3. Margin = Limit - Emission level

Test Result

< DSUB MODE >



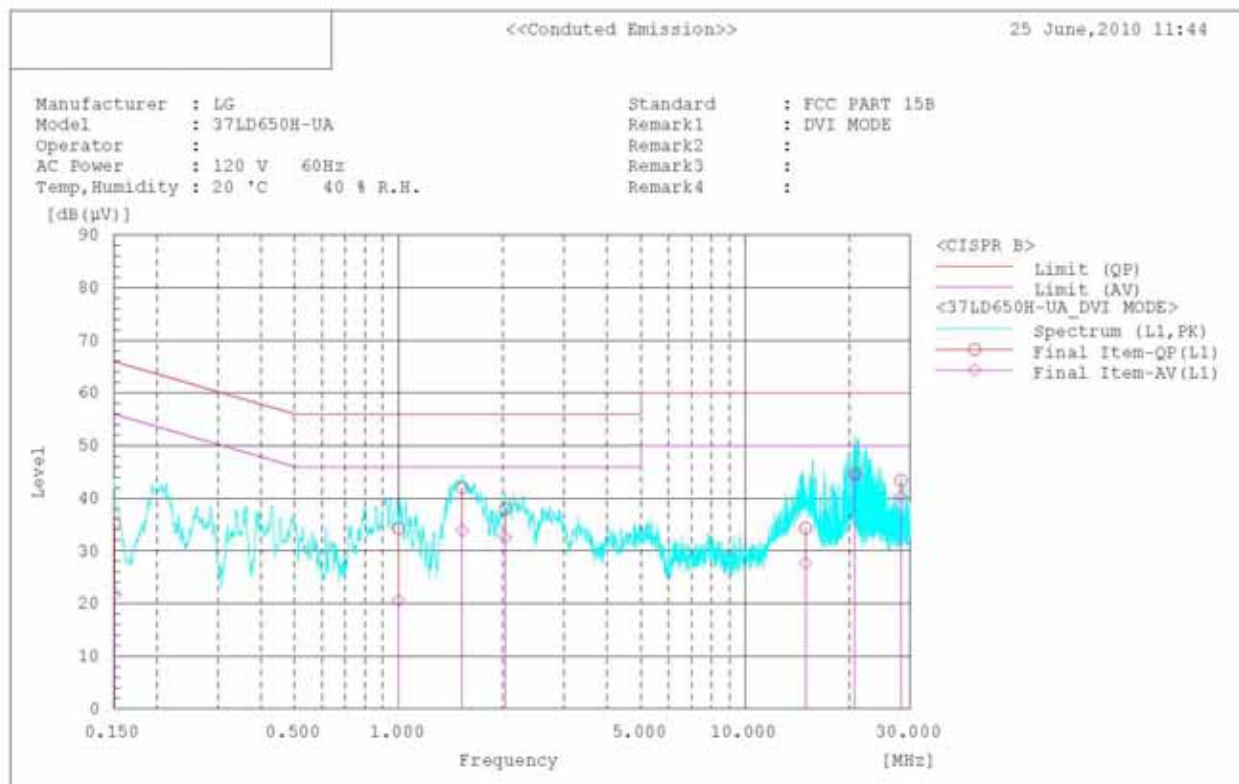
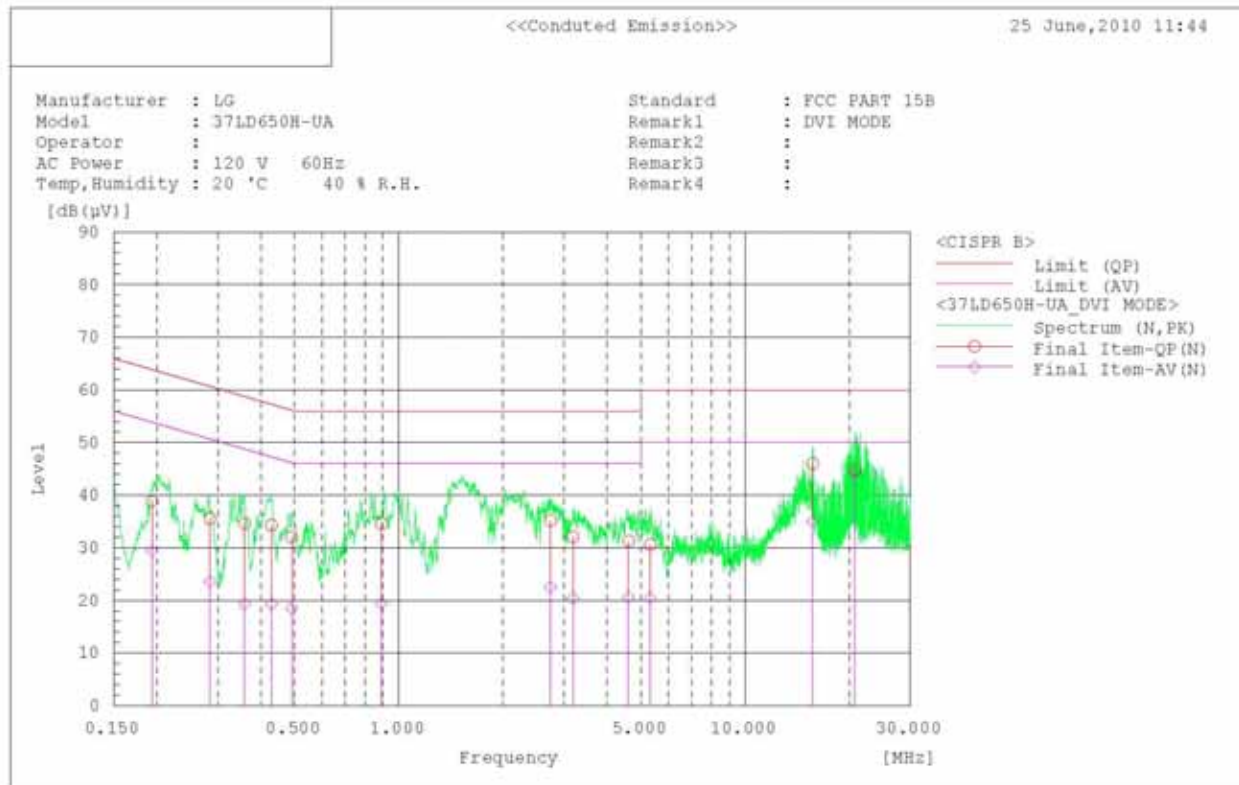
<<Conducted Emission>>

25 June,2010 11:05

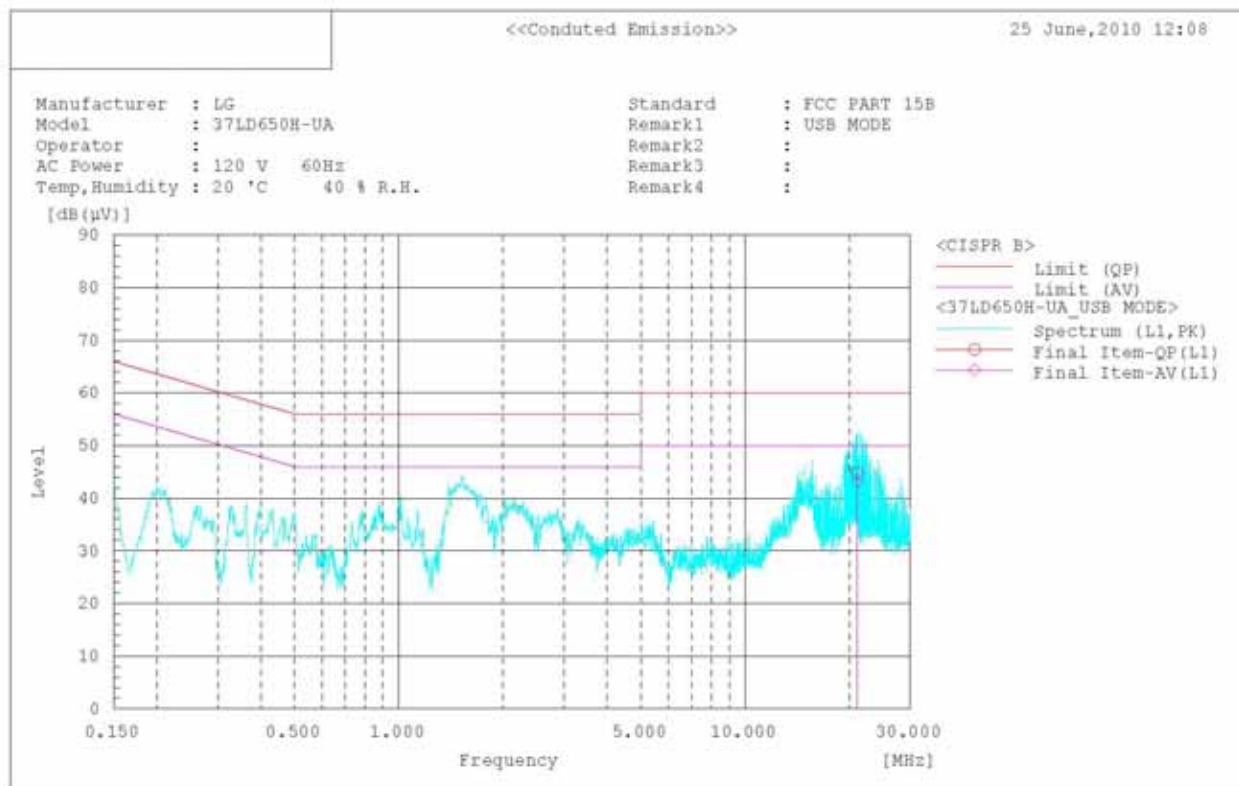
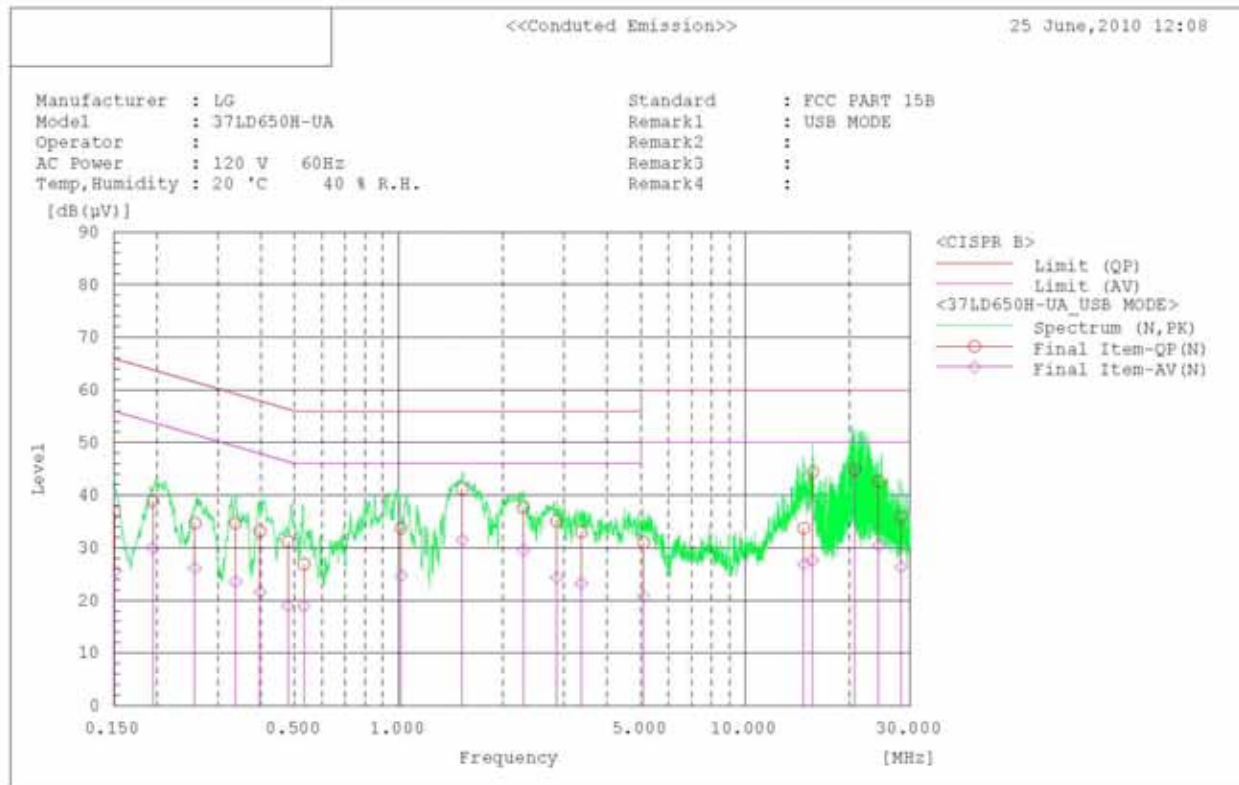
Standard : FCC PART 15B
Manufacturer : LG
Model : 37LD650H-UA
Operator :
AC Power : 120 V 60Hz
Temp, Humidity : 20 °C 40 % R.H.
Remark1 : DSUB MODE
Remark2 :
Remark3 :
Remark4 :

Final Result
--- N Phase ---
No. Frequency Reading QP Reading AV c.f Result QP Result AV Limit QP Limit AV Margin QP Margin AV Remark
[MHz] [dB (μV)] [dB (μV)] [dB] [dB (μV)] [dB (μV)] [dB (μV)] [dB (μV)] [dB] [dB]
1 0.196 38.8 31.4 0.2 39.0 31.6 63.8 53.8 24.8 22.2
2 0.287 35.4 22.0 0.2 35.6 22.2 60.6 50.6 25.0 28.4
3 0.353 36.1 22.4 0.2 36.3 22.6 58.9 48.9 22.6 26.3
4 0.498 32.5 17.5 0.2 32.7 17.7 56.0 46.0 23.3 28.3
5 1.004 36.8 21.6 0.2 37.0 21.8 56.0 46.0 19.0 24.2
6 2.155 38.0 31.1 0.3 38.3 31.4 56.0 46.0 17.7 14.6
7 2.674 35.1 22.7 0.3 35.4 23.0 56.0 46.0 20.6 23.0
8 3.453 32.2 19.6 0.3 32.5 19.9 56.0 46.0 23.5 26.1
9 4.435 30.5 19.0 0.3 30.8 19.3 56.0 46.0 25.2 26.7
10 5.309 30.9 20.8 0.4 31.3 21.2 60.0 50.0 28.7 28.8
11 9.796 25.3 20.9 0.5 25.8 21.4 60.0 50.0 34.2 28.6
12 15.704 43.8 28.0 0.8 44.6 28.8 60.0 50.0 15.4 21.2
13 20.570 40.1 35.6 1.0 41.1 36.6 60.0 50.0 18.9 13.4
14 29.033 41.6 38.4 1.0 42.6 39.4 60.0 50.0 17.4 10.6
--- L1 Phase ---
No. Frequency Reading QP Reading AV c.f Result QP Result AV Limit QP Limit AV Margin QP Margin AV Remark
[MHz] [dB (μV)] [dB (μV)] [dB] [dB (μV)] [dB (μV)] [dB (μV)] [dB (μV)] [dB] [dB]
1 0.151 34.3 20.0 0.2 34.5 20.2 65.9 55.9 31.4 35.7
2 0.413 34.2 21.7 0.2 34.4 21.9 57.6 47.6 23.2 25.7
3 1.524 41.7 33.5 0.2 41.9 33.7 56.0 46.0 14.1 12.3
4 21.161 42.7 42.0 1.3 44.0 43.3 60.0 50.0 16.0 6.7

< DVI TO HDMI MODE >



< USB MODE >



<<Conducted Emission>>

25 June,2010 12:08

Standard : FCC PART 15B
 Manufacturer : LG
 Model : 37LD650H-UA
 Operator :
 AC Power : 120 V 60Hz
 Temp, Humidity : 20 °C 40 % R.H.
 Remark1 : USB MODE
 Remark2 :
 Remark3 :
 Remark4 :

Final Result

--- N Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV	Remark
	[MHz]	[dB(μV)]	[dB(μV)]		[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]	
1	0.151	36.6	25.4	0.2	36.8	25.6	65.9	55.9	29.1	30.3	
2	0.195	38.6	29.8	0.2	38.8	30.0	63.8	53.8	25.0	23.8	
3	0.258	34.5	26.0	0.2	34.7	26.2	61.5	51.5	26.8	25.3	
4	0.338	34.5	23.4	0.2	34.7	23.6	59.3	49.3	24.6	25.7	
5	0.397	33.0	21.4	0.2	33.2	21.6	57.9	47.9	24.7	26.3	
6	0.479	31.0	18.8	0.2	31.2	19.0	56.4	46.4	25.2	27.4	
7	0.532	26.7	18.7	0.2	26.9	18.9	56.0	46.0	29.1	27.1	
8	1.016	33.5	24.5	0.2	33.7	24.7	56.0	46.0	22.3	21.3	
9	1.526	41.0	31.3	0.2	41.2	31.5	56.0	46.0	14.8	14.5	
10	2.289	37.3	29.2	0.3	37.6	29.5	56.0	46.0	18.4	16.5	
11	2.860	34.8	24.0	0.3	35.1	24.3	56.0	46.0	20.9	21.7	
12	3.369	32.7	22.9	0.3	33.0	23.2	56.0	46.0	23.0	22.8	
13	5.094	30.6	20.4	0.4	31.0	20.8	60.0	50.0	29.0	29.2	
14	14.788	33.0	26.2	0.7	33.7	26.9	60.0	50.0	26.3	23.1	
15	15.684	43.6	26.9	0.8	44.4	27.7	60.0	50.0	15.6	22.3	
16	20.765	43.9	43.5	1.0	44.9	44.5	60.0	50.0	15.1	5.5	
17	24.313	41.6	29.4	1.0	42.6	30.4	60.0	50.0	17.4	19.6	
18	28.233	34.8	25.4	1.0	35.8	26.4	60.0	50.0	24.2	23.6	

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c.f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV	Remark
	[MHz]	[dB(μV)]	[dB(μV)]		[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]	
1	21.119	43.5	41.9	1.3	44.8	43.2	60.0	50.0	15.2	6.8	

6.2 Radiated Emission

RESULT : COMPLY

6.2.1 Measurement Procedure

The radiated emission was measured and set-up was made accordance with **ANSI C63.4:2003**.

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8m above the reference ground plane and 3m away from the interference receiving antenna **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 0.15m above the reference ground plane.

Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4m 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 1GHz frequency range, Quasi-Peak detector with 120kHz RBW was used.

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

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

6.2.2 List of Test and Measurement Instruments

Radiated Emission (10m Chamber)					
Name of Instrument	Model No.	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
EMI Test Receiver	ESU	100014	R&S	2010.01.29	2011.01.29
Bilog Antenna	CBL6112D	22609	SCHAFFNER	2010.10.28	2011.10.28
Horn Antenna	3115	21097	ETS	2009.09.23	2010.09.23
Amplifier(22dB)	8447E	2945A02865	H/P	2010.01.29	2011.01.29
Amplifier(30dB)	8449B	3008A01590	Agilent	2009.10.10	2010.10.10
Low Noise Preamplifier	MLA-00108-B02-36	1518831	TSJ	2010.02.08	2011.02.08
Controller	5905A	N/A	TOKIN	-	-
ANT.master	N/A	N/A	TOKIN	-	-

6.2.3 Limit of Radiated Emission

- The test frequency range of Radiated Emission 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	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

(1) Limit for Radiated Emission below 1000MHz

Frequency range (MHz)	Class A Equipment (10m distance)	Class B Equipment (3m distance)
	Quasi-peak limits (dB μ V/m)	Quasi-peak limits (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 1000	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.		
30 to 230	40	30
230 to 1000	47	37

(2) Limits for Radiated Emission in the frequency range 1000 - 2000MHz at a measuring distance of 10m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	peak (dB μ V/m)	peak (dB μ V/m)	peak (dB μ V/m)	Average (dB μ V/m)
1 to 2	69.5	49.5	63.5	43.5

(3) Limits for Radiated Emission above 1000MHz at a measuring distance of 3m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	peak (dB μ V/m)	peak (dB μ V/m)	peak (dB μ V/m)	Average (dB μ V/m)
1 to 40	80	60	74	54

6.2.4 Test Result

	30MHz-1GHz	1GHz-2GHz
Test date	June 25, 2010	June 28, 2010
Ambient Temperature	25	24
Relative Humidity	33 % R.H.	51 % R.H.

Result : For the measurement data, see next page

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

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

3. Margin = Limit - Emission level

* No emission were found greater than 10dB below limit above 2GHz.

Test Result

< DSUB MODE >
- 30MHz-1GHz

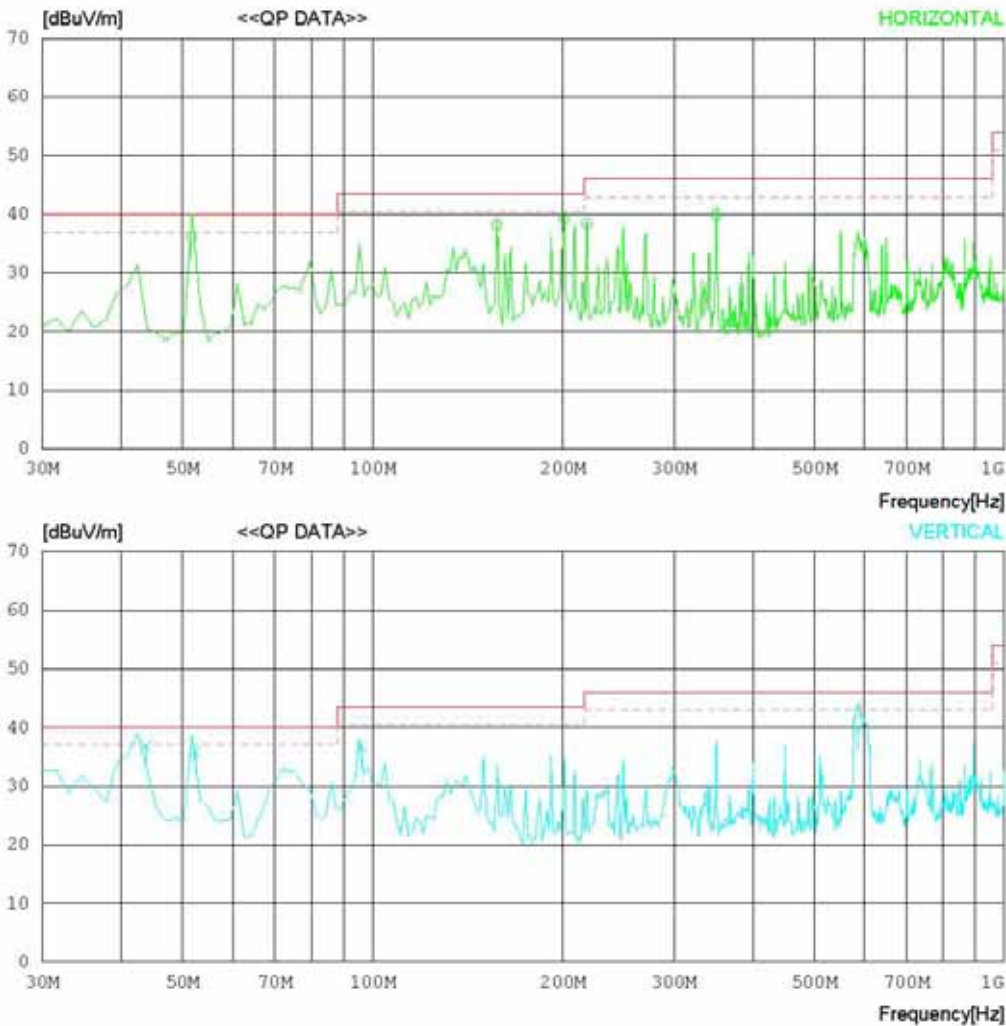


RADIATED EMISSION

Date : 2010-06-25

Model Name	: 37LD650H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 25°C 33% R.H.
Test Condition	: DSUB MODE 1920 X 1080	Operator	:
Memo	:		

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



RADIATED EMISSION

Date : 2010-06-25

Model Name	: 37LD650H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 25°C 33% R.H.
Test Condition	: DSUB MODE 1920 X 1080	Operator	:

Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	51.560	50.2	7.8	0.9	22.7	36.2	40.0	3.8	400	174
2	157.239	49.6	10.2	1.4	23.0	38.2	43.5	5.3	130	358
3	200.918	50.1	10.8	1.7	23.3	39.3	43.5	4.2	100	209
4	218.379	48.5	11.7	1.7	23.4	38.5	46.0	7.5	100	1
5	349.992	46.7	15.0	2.2	24.0	39.9	46.0	6.1	170	358
----- Vertical -----										
6	43.690	47.2	11.4	0.8	22.6	36.8	40.0	3.2	100	255
7	52.410	50.1	7.6	0.9	22.7	35.9	40.0	4.1	100	255
8	96.082	48.4	9.8	1.2	22.7	36.7	43.5	6.8	100	358
9	586.263	42.7	18.6	2.9	24.4	39.8	46.0	6.2	100	171

- 1GHz-2GHz



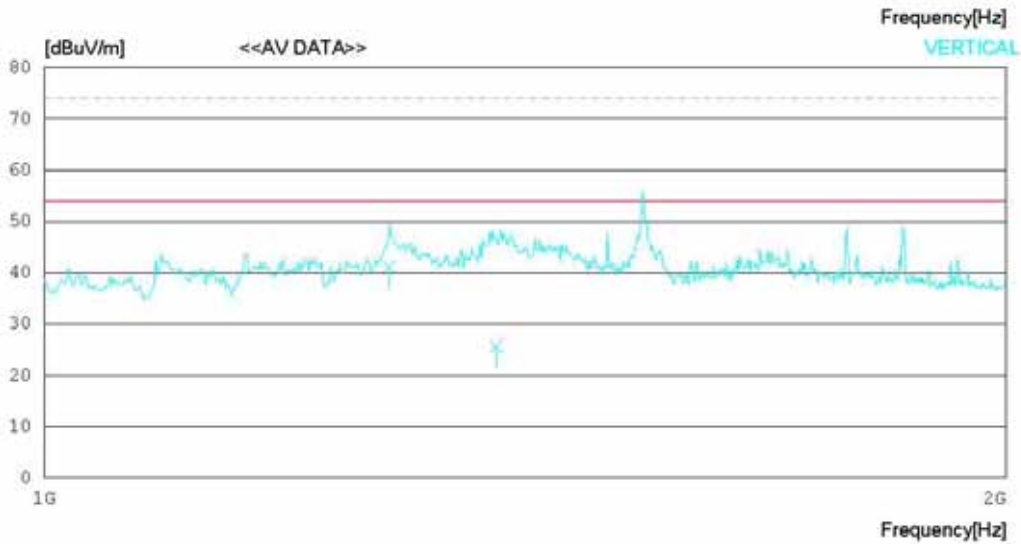
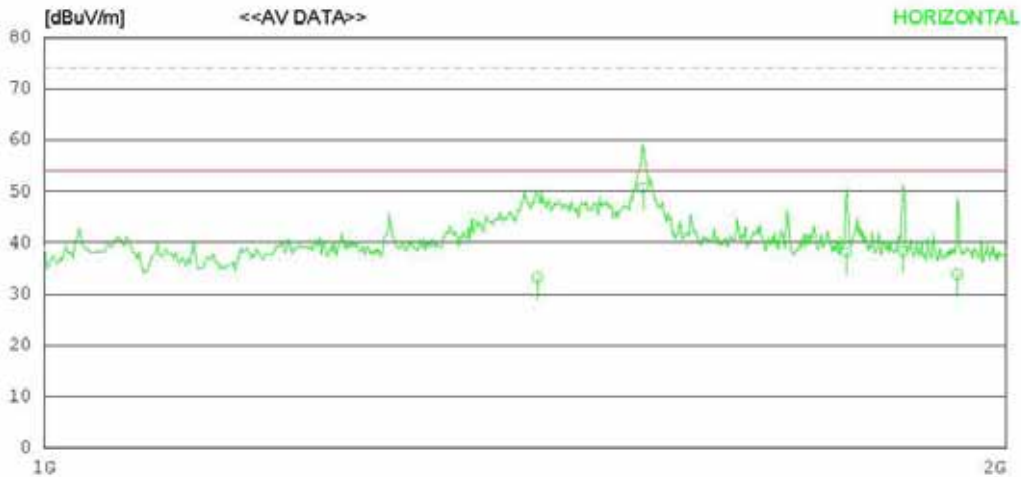
RADIATED EMISSION

Date : 2010-06-28

Model Name	: 37LD650H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 24'C 51%R.H.
Test Condition	: DSUB MODE	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Avg)
FCC Part15 Subpart.B Class B (3m) - 8G(Peak)



RADIATED EMISSION

Date : 2010-06-28

Model Name	:	37LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	24°C 51%R.H.
Test Condition	:	DSUB MODE	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 8G(Avg)
 FCC Part15 Subpart B Class B (3m) - 8G(Peak)

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1426.397	44.4	24.9	5.8	41.9	33.2	54.0	20.8	100	354
2	1539.198	61.5	25.1	6.0	41.9	50.7	54.0	3.3	100	14
3	1781.908	48.4	25.2	6.5	41.9	38.2	54.0	15.8	100	77
4	1856.336	48.4	25.2	6.7	41.9	38.4	54.0	15.6	123	45
5	1930.425	43.7	25.2	6.9	41.9	33.9	54.0	20.1	100	343
----- Vertical -----										
6	1282.047	53.1	24.5	5.5	41.9	41.2	54.0	12.8	100	114
7	1385.154	37.1	24.8	5.7	41.9	25.7	54.0	28.3	175	83



RADIATED EMISSION

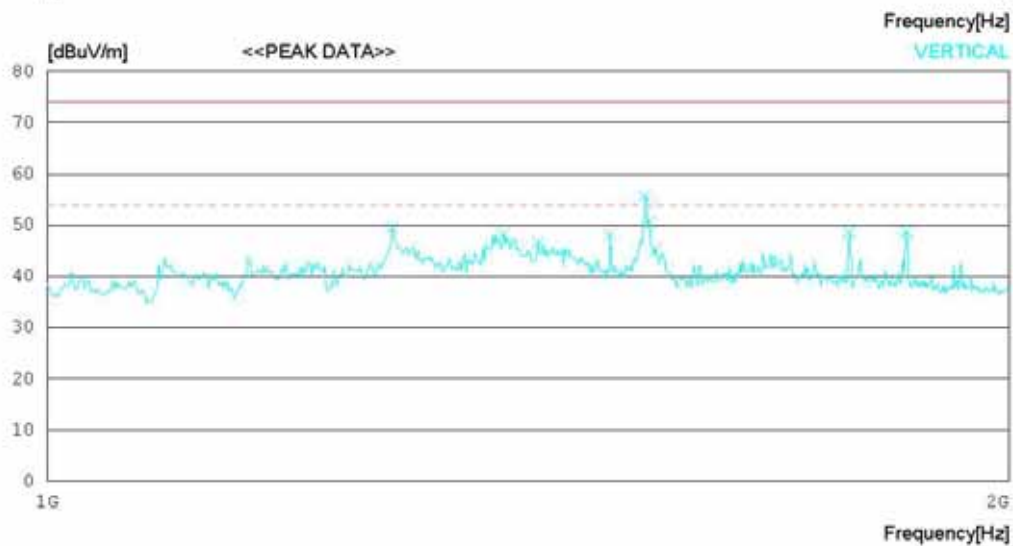
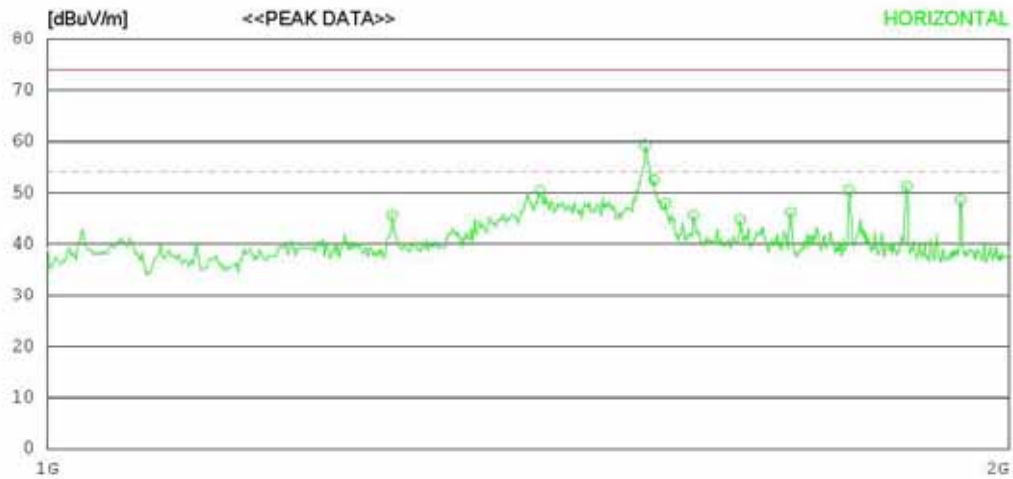
Date : 2010-06-28

Model Name : 37LD650H-UA
Model No. :
Serial No. :
Test Condition : DSUB MODE

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 24'C 51%R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Peak)
FCC Part15 Subpart.B Class B (3m) - 8G(Avg)



RADIATED EMISSION

Date : 2010-06-28

Model Name : 37LD650H-UA
 Model No. :
 Serial No. :
 Test Condition : DSUB MODE

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 24°C 51%R.H.
 Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 8G(Peak)
 FCC Part15 Subpart B Class B (3m) - 8G(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	1282.047	57.5	24.5	5.5	41.9	45.6	74.0	28.4	100	8
2	1426.275	61.5	24.9	5.8	41.9	50.3	74.0	23.7	100	349
3	1538.453	70.0	25.1	6.0	41.9	59.2	74.0	14.8	100	358
4	1548.068	63.2	25.1	6.1	41.9	52.5	74.0	21.5	100	358
5	1560.889	58.6	25.1	6.1	41.9	47.9	74.0	26.1	100	56
6	1592.939	56.1	25.2	6.1	41.9	45.5	74.0	28.5	100	49
7	1647.426	55.1	25.2	6.3	41.9	44.7	74.0	29.3	100	358
8	1708.322	56.5	25.2	6.4	41.9	46.2	74.0	27.8	100	8
9	1782.039	60.7	25.2	6.5	41.9	50.5	74.0	23.5	100	4
10	1857.358	61.2	25.2	6.7	41.9	51.2	74.0	22.8	201	1
11	1931.075	58.4	25.2	6.9	41.9	48.6	74.0	25.4	100	358
----- Vertical -----										
12	1282.047	61.6	24.5	5.5	41.9	49.7	74.0	24.3	100	0
13	1389.417	59.6	24.8	5.7	41.9	48.2	74.0	25.8	201	1
14	1424.673	57.9	24.9	5.8	41.9	46.7	74.0	27.3	100	358
15	1499.992	58.9	25.1	5.9	41.9	48.0	74.0	26	100	105
16	1538.453	66.5	25.1	6.0	41.9	55.7	74.0	18.3	201	21
17	1543.261	61.4	25.1	6.0	41.9	50.6	74.0	23.4	201	1
18	1549.671	55.8	25.1	6.1	41.9	45.1	74.0	28.9	201	21
19	1782.039	58.9	25.2	6.5	41.9	48.7	74.0	25.3	100	12
20	1857.358	58.7	25.2	6.7	41.9	48.7	74.0	25.3	100	351

< USB MODE >

- 30MHz-1GHz



RADIATED EMISSION

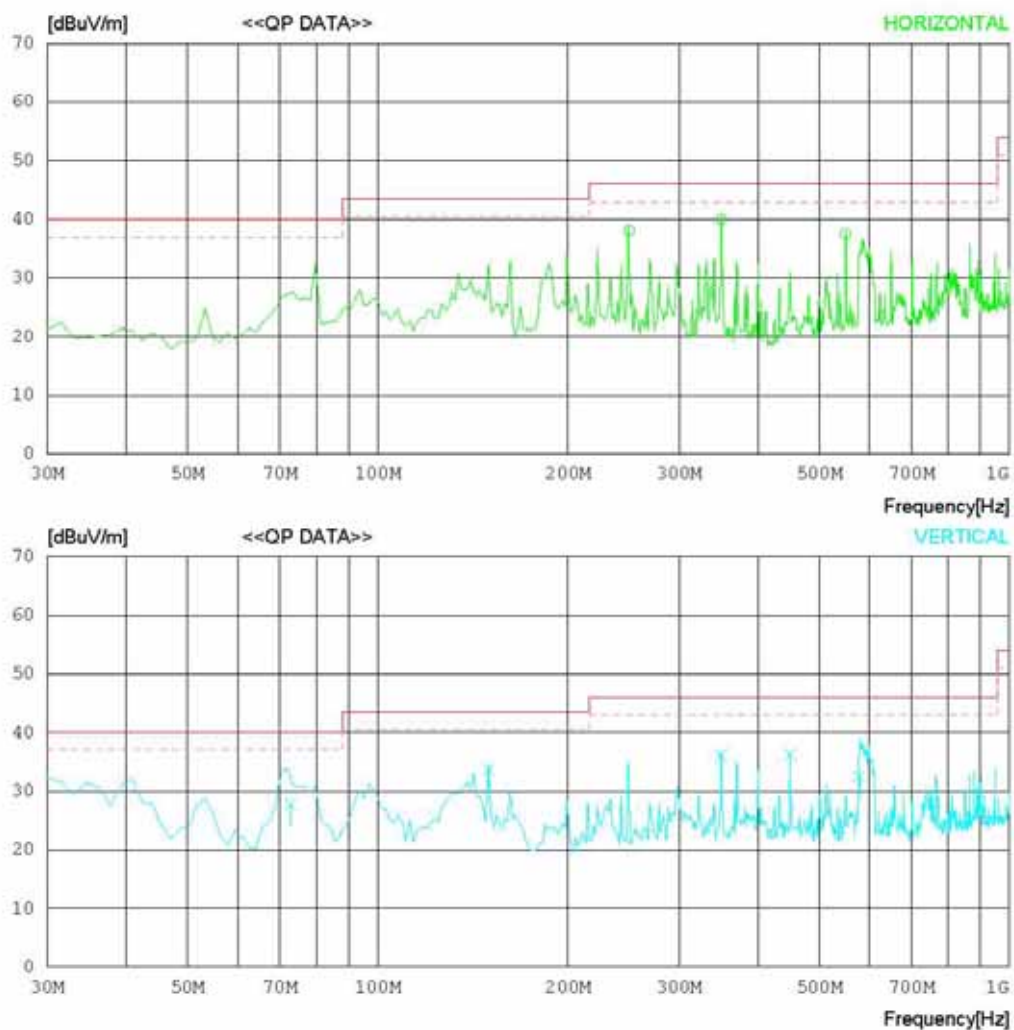
Date : 2010-06-25

Model Name : 37LD650H-UA
Model No. :
Serial No. :
Test Condition : USB MUSIC MODE

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 25°C 33% R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2010-06-25

Model Name : 37LD650H-UA
 Model No. :
 Serial No. :
 Test Condition : USB MUSIC MODE

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 25°C 33% 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	250.000	46.5	13.3	1.8	23.5	38.1	46.0	7.9	100	136
2	350.000	46.8	15.0	2.2	24.0	40.0	46.0	6.0	100	358
3	549.984	41.0	18.2	2.8	24.5	37.5	46.0	8.5	180	198
----- Vertical -----										
4	72.915	42.8	6.6	1.0	22.7	27.7	40.0	12.3	100	1
5	150.016	45.0	10.3	1.4	23.0	33.7	43.5	9.8	100	167
6	349.984	42.9	15.0	2.2	24.0	36.1	46.0	9.9	100	1
7	449.984	41.5	16.8	2.5	24.5	36.3	46.0	9.7	100	165
8	578.590	35.5	18.5	2.9	24.4	32.5	46.0	13.5	100	1

- 1GHz-2GHz



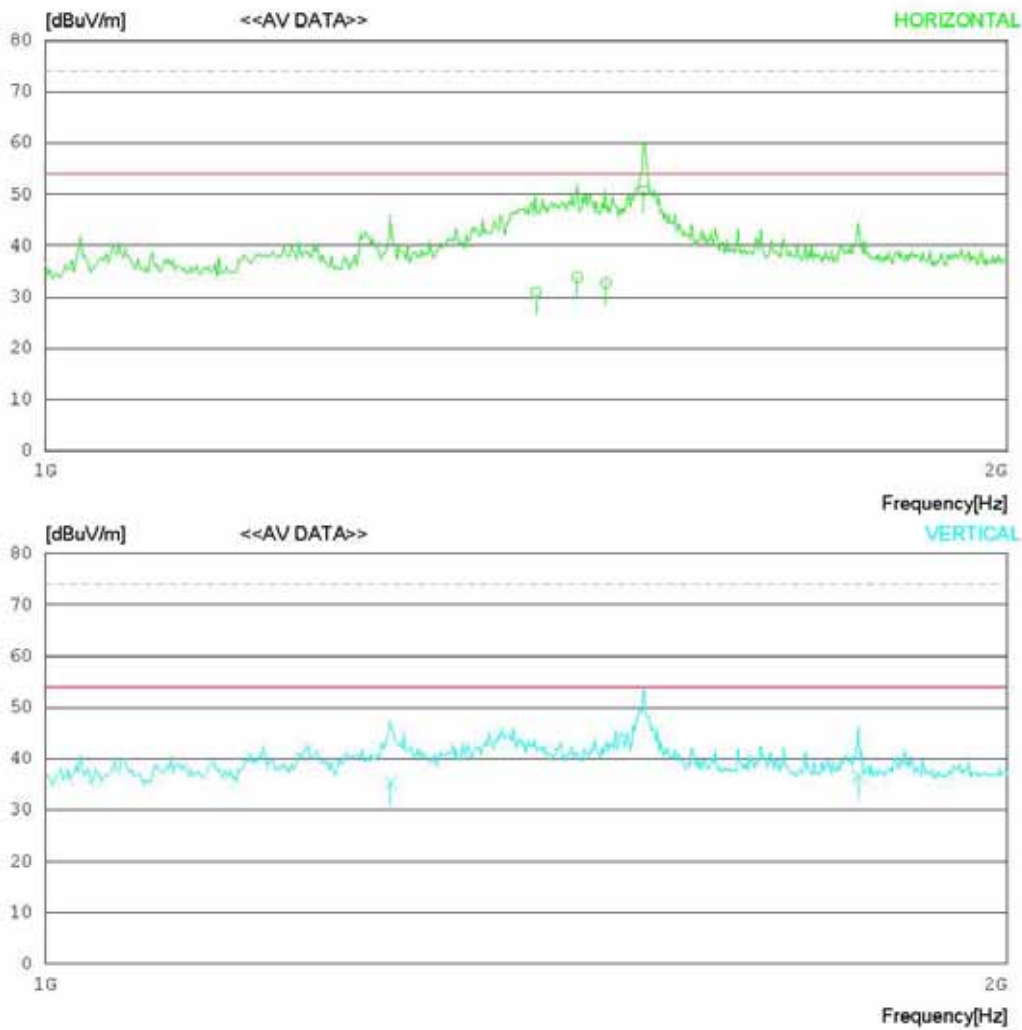
RADIATED EMISSION

Date : 2010-06-28

Model Name	: 37LD650H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 24'C 51%R.H.
Test Condition	: USB MODE	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Avg)
FCC Part15 Subpart.B Class B (3m) - 8G(Peak)



RADIATED EMISSION

Date : 2010-06-28

Model Name	:	37LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	24°C 51%R.H.
Test Condition	:	USB MODE	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 8G(Avg)
 FCC Part15 Subpart B Class B (3m) - 8G(Peak)

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV	FACTOR							
		[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1424.166	42.1	24.9	5.8	41.9	30.9	54.0	23.1	100	313
2	1467.164	44.9	25.0	5.9	41.9	33.9	54.0	20.1	100	357
3	1497.854	43.6	25.1	5.9	41.9	32.7	54.0	21.3	100	244
4	1538.953	61.5	25.1	6.0	41.9	50.7	54.0	3.3	100	41
----- Vertical -----										
5	1282.541	47.2	24.5	5.5	41.9	35.3	54.0	18.7	100	316
6	1796.442	46.8	25.2	6.6	41.9	36.7	54.0	17.3	100	323



RADIATED EMISSION

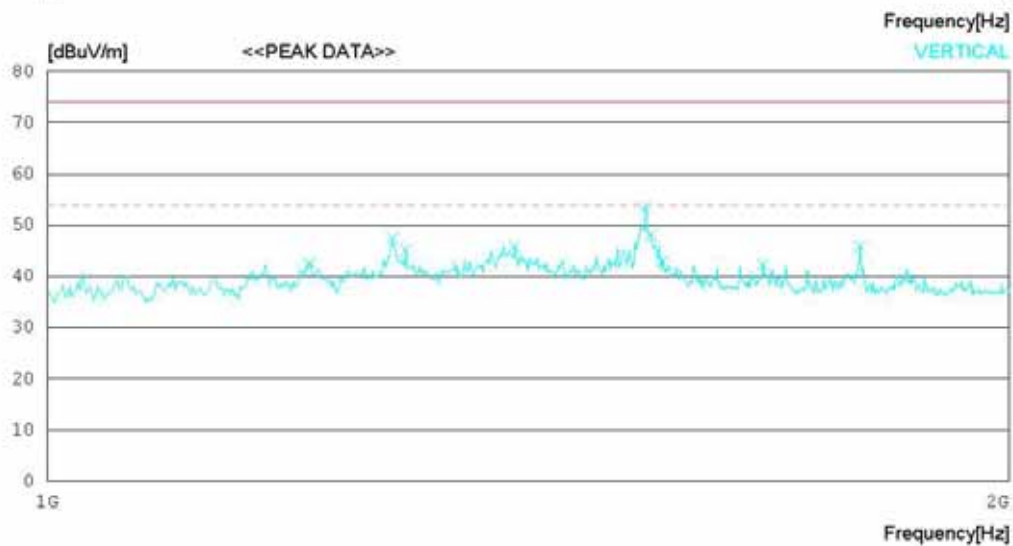
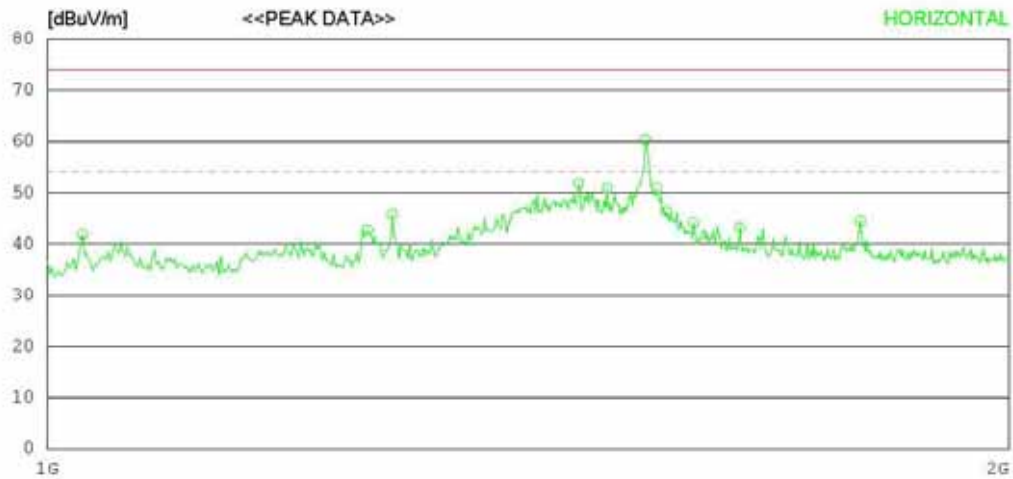
Date : 2010-06-28

Model Name : 37LD650H-UA
Model No. :
Serial No. :
Test Condition : USB MODE

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 24'C 51%R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Peak)
FCC Part15 Subpart.B Class B (3m) - 8G(Avg)



RADIATED EMISSION

Date : 2010-06-28

Model Name	: 37LD650H-UA	Reference No.	:	
Model No.	:	Power Supply	:	120V 60Hz
Serial No.	:	Temp/Humi	:	24°C 51%R.H.
Test Condition	: USB MODE	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 8G(Peak)
FCC Part15 Subpart B Class B (3m) - 8G(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	1025.641	55.2	23.7	4.9	41.9	41.9	74.0	32.1	100	12
2	1259.611	54.9	24.4	5.4	41.9	42.8	74.0	31.2	100	357
3	1282.047	57.7	24.5	5.5	41.9	45.8	74.0	28.2	100	4
4	1466.339	62.8	25.0	5.9	41.9	51.8	74.0	22.2	100	350
5	1496.787	61.8	25.1	5.9	41.9	50.9	74.0	23.1	100	358
6	1538.453	71.2	25.1	6.0	41.9	60.4	74.0	13.6	100	4
7	1551.273	61.6	25.1	6.1	41.9	50.9	74.0	23.1	100	358
8	1562.491	57.0	25.1	6.1	41.9	46.3	74.0	27.7	100	358
9	1592.939	54.7	25.2	6.1	41.9	44.1	74.0	29.9	100	358
10	1647.426	53.6	25.2	6.3	41.9	43.2	74.0	30.8	100	38
11	1796.462	54.5	25.2	6.6	41.9	44.4	74.0	29.6	100	4
----- Vertical -----										
12	1208.330	54.8	24.3	5.3	41.9	42.5	74.0	31.5	100	349
13	1282.047	59.3	24.5	5.5	41.9	47.4	74.0	26.6	100	358
14	1294.867	56.9	24.5	5.5	41.9	45.0	74.0	29	100	351
15	1400.635	57.3	24.8	5.7	41.9	45.9	74.0	28.1	100	348
16	1538.453	64.3	25.1	6.0	41.9	53.5	74.0	20.5	100	358
17	1544.863	58.9	25.1	6.0	41.9	48.1	74.0	25.9	100	18
18	1557.684	53.8	25.1	6.1	41.9	43.1	74.0	30.9	100	358
19	1674.669	52.8	25.2	6.3	41.9	42.4	74.0	31.6	100	358
20	1796.462	56.1	25.2	6.6	41.9	46.0	74.0	28	100	356

< DVI TO HDMI MODE >

- 30MHz-1GHz

RADIATED EMISSION

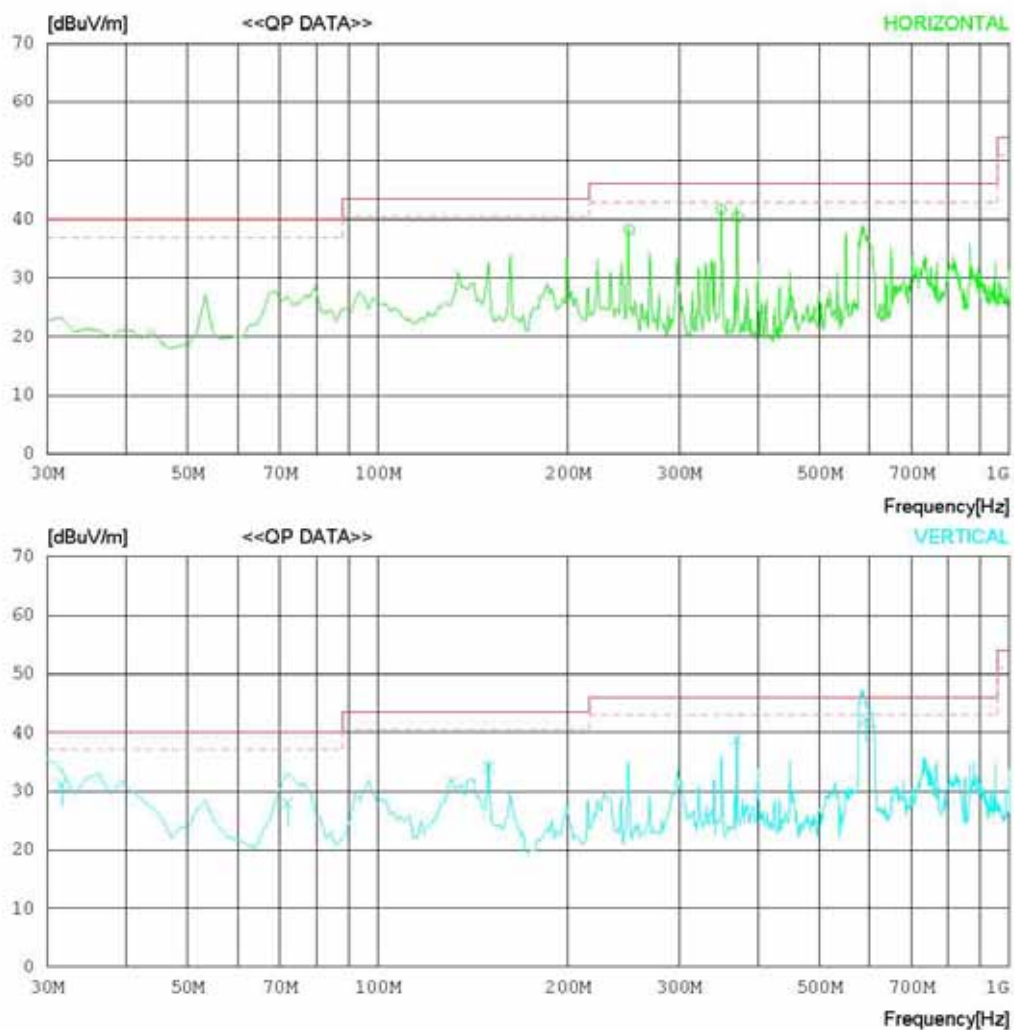
Date : 2010-06-25

Model Name : 37LD650H-UA
Model No. :
Serial No. :
Test Condition : HDMI MODE 1920 X 1080

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 25°C 33% R.H.
Operator :

Memo : DVI TO HDMI

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



RADIATED EMISSION

Date : 2010-06-25

Model Name	: 37LD650H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 25°C 33% R.H.
Test Condition	: HDMI MODE 1920 X 1080	Operator	:

Memo : DVI TO HDMI

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	250.001	46.7	13.3	1.8	23.5	38.3	46.0	7.7	100	1
2	349.994	48.5	15.0	2.2	24.0	41.7	46.0	4.3	180	358
3	371.250	47.0	15.4	2.3	24.2	40.5	46.0	5.5	100	187
----- Vertical -----										
4	31.627	35.4	17.6	0.7	22.6	31.1	40.0	8.9	100	152
5	71.968	43.1	6.5	1.0	22.7	27.9	40.0	12.1	100	1
6	149.984	45.3	10.3	1.4	23.0	34.0	43.5	9.5	100	180
7	371.255	45.4	15.4	2.3	24.2	38.9	46.0	7.1	100	176
8	593.929	45.0	18.7	2.9	24.4	42.2	46.0	3.8	100	358

- 1GHz-2GHz



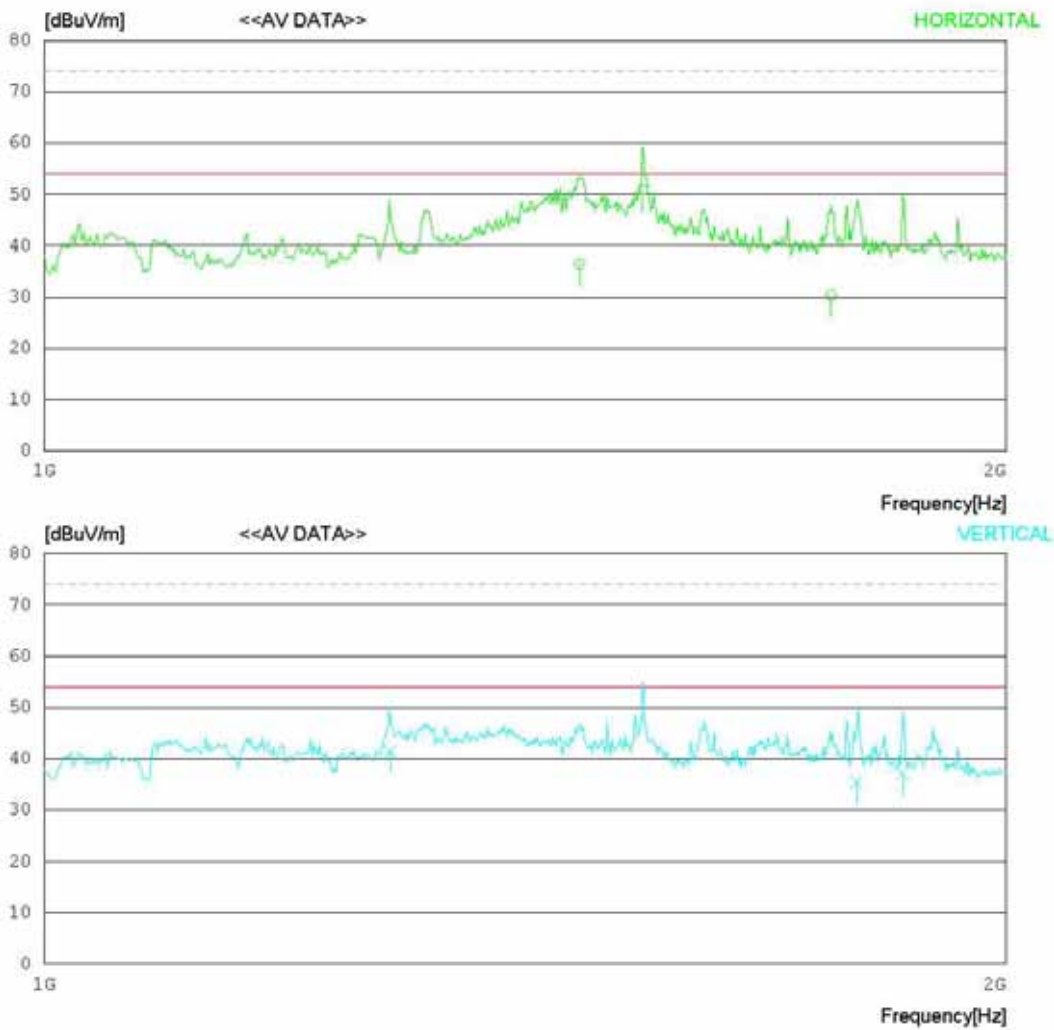
RADIATED EMISSION

Date : 2010-06-28

Model Name	: 37LD650H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 24'C 51%R.H.
Test Condition	: HDMI MODE	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Avg)
FCC Part15 Subpart.B Class B (3m) - 8G(Peak)



RADIATED EMISSION

Date : 2010-06-28

Model Name	:	37LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	24°C 51%R.H.
Test Condition	:	HDMI MODE	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 8G(Avg)
 FCC Part15 Subpart B Class B (3m) - 8G(Peak)

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV	FACTOR							
		[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1470.583	47.3	25.1	5.9	41.9	36.4	54.0	17.6	201	358
2	1538.899	61.7	25.1	6.0	41.9	50.9	54.0	3.1	100	43
3	1763.047	40.5	25.2	6.5	41.9	30.3	54.0	23.7	100	259
----- Vertical -----										
4	1282.784	53.4	24.5	5.5	41.9	41.5	54.0	12.5	100	314
5	1795.467	45.6	25.2	6.6	41.9	35.5	54.0	18.5	100	141
6	1856.253	47.1	25.2	6.7	41.9	37.1	54.0	16.9	100	52

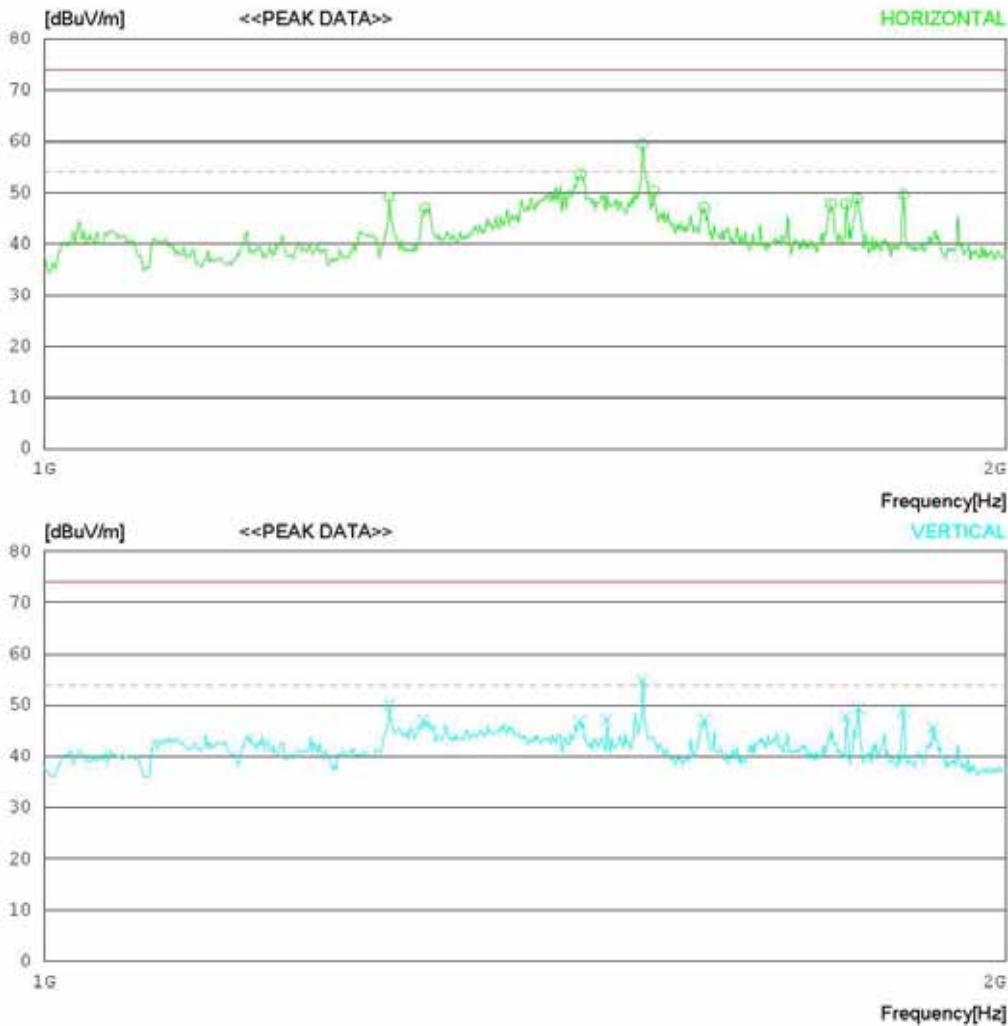


RADIATED EMISSION

Date : 2010-06-28

Model Name	: 37LD650H-UA	Reference No.	:	
Model No.	:	Power Supply	:	120V 60Hz
Serial No.	:	Temp/Humi	:	24'C 51%R.H.
Test Condition	: HDMI MODE	Operator	:	
Memo	:			

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Peak)
FCC Part15 Subpart.B Class B (3m) - 8G(Avg)



RADIATED EMISSION

Date : 2010-06-28

Model Name : 37LD650H-UA
 Model No. :
 Serial No. :
 Test Condition : HDMI MODE

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 24°C 51%R.H.
 Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 8G(Peak)
 FCC Part15 Subpart B Class B (3m) - 8G(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	1282.047	61.0	24.5	5.5	41.9	49.1	74.0	24.9	100	1
2	1315.700	58.7	24.6	5.5	41.9	46.9	74.0	27.1	201	358
3	1471.146	64.4	25.1	5.9	41.9	53.5	74.0	20.5	100	1
4	1538.453	70.2	25.1	6.0	41.9	59.4	74.0	14.6	100	1
5	1551.273	61.0	25.1	6.1	41.9	50.3	74.0	23.7	100	1
6	1608.965	57.6	25.2	6.2	41.9	47.1	74.0	26.9	100	1
7	1762.809	58.0	25.2	6.5	41.9	47.8	74.0	26.2	100	14
8	1782.039	58.0	25.2	6.5	41.9	47.8	74.0	26.2	100	1
9	1796.462	59.0	25.2	6.6	41.9	48.9	74.0	25.1	100	38
10	1857.358	59.6	25.2	6.7	41.9	49.6	74.0	24.4	100	1
----- Vertical -----										
11	1282.047	62.0	24.5	5.5	41.9	50.1	74.0	23.9	100	1
12	1314.098	58.8	24.6	5.5	41.9	47.0	74.0	27	100	2
13	1471.146	57.8	25.1	5.9	41.9	46.9	74.0	27.1	100	1
14	1499.992	58.2	25.1	5.9	41.9	47.3	74.0	26.7	100	1
15	1538.453	65.6	25.1	6.0	41.9	54.8	74.0	19.2	100	349
16	1608.965	57.8	25.2	6.2	41.9	47.3	74.0	26.7	200	358
17	1782.039	57.8	25.2	6.5	41.9	47.6	74.0	26.4	100	15
18	1798.064	59.5	25.2	6.6	41.9	49.4	74.0	24.6	100	325
19	1857.358	59.0	25.2	6.7	41.9	49.0	74.0	25	100	1
20	1897.422	55.6	25.2	6.8	41.9	45.7	74.0	28.3	100	1