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<http://www.digitalemcc.com>

FCC Test Report

for

LCD TV Monitor

Applicant : LG Electronics Inc.

Model Number : 37LD320H-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 : August 02 ~ 03, 2010

Date of Issue : August 03, 2010

Tested by : M.J.SONG/Manager

Reviewed by : Y.K.SHIN/Manager

A handwritten signature in black ink, appearing to be 'M.J. Song', written over a horizontal line.

A handwritten signature in black ink, appearing to be 'Y.K. Shin', 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.

CONTENTS

1. General Remarks	3
2. Test Laboratory	3
3. General Information of EUT	4
3.1 Product Information	4
4. Test Summary	5
4.1 Summary of tests	5
5. Test Set-up and operation mode	6
5.1 Principle of Configuration Selection	6
5.2 Test Operation Mode	6
5.3 Support Equipment Used	7
6. Test Results : Emission	8
6.1 Conducted Emission	8
6.2 Radiated Emission	16

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 R-1364, R-3385 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.

Address: 683-3, Yubang-Dong, Yongin-Si, Kyunggi-Do, Korea. 449-080

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3. General Information of EUT

3.1 Product Information

Equipment under Test	LCD TV Monitor
Model No.	37LD320H-UA
Serial No	NONE
Type of Sample Tested	Pre-Production
Rating Power Supply	AC100-240V, 50/60Hz
High Frequency	650MHz,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	2010-07-26

< Product Specifications >

MODEL		32LH240H (32LH240H-UA) 32LH250H (32LH250H-UA/UB) 32LH255H (32LH255H-UA) 32LD320H (32LD320H-UA)	37LH250H (37LH250H-UA) 37LH255H (37LH255H-UA) 37LH260H (37LH260H-UA/UB) 37LH265H (37LH265H-UA/UB) 37LD320H (37LD320H-UA)	42LH250H (42LH250H-UA) 42LH255H (42LH255H-UA) 42LH260H (42LH260H-UA/UB) 42LD320H (42LD320H-UA)
Dimensions (Width x Height x Depth)	With stand	31.6 x 22.9 x 8.8 inches 805.0 x 583.0 x 223.8 mm	36.2 x 25.9 x 11.6 inches 922.0 x 659.0 x 297.0 mm	40.4 x 28.1 x 11.6 inches 1028.0 x 715.4 x 297.0 mm
	Without stand	31.6 x 20.7 x 4.2 inches 805.0 x 528.2 x 108.9 mm	36.2 x 23.4 x 3.4 inches 922.0 x 595.0 x 88.0 mm	40.4 x 25.7 x 3.4 inches 1028.0 x 655.0 x 88.7 mm
Weight	With stand	27.7 pounds / 12.6 kg	33.0 pounds / 15.0 kg	41.0 pounds / 18.6 kg
	Without stand	25.1 pounds / 11.4 kg	29.1 pounds / 13.2 kg	37.0 pounds / 16.8 kg
Power requirement		AC 100-240V ~ 50/60Hz		
Television System		NTSC-M, ATSC, 64 & 256 QAM		
Program Coverage		VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135		
External Antenna Impedance		75 ohm		
Environment condition	Operating Temperature	32 ~ 104°F (0 ~ 40°C)		
	Operating Humidity	Less than 80%		
	Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)		
		Storage Humidity Less than 85%		

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	S30MS	004SHVM019295	LG	Power	1.6	Non-shield	Plastic	DOC
				PS/2	1.6	Non-shield	Plastic	
				PS/2	1.6	Non-shield	Plastic	
				USB	1.2	Shield	Plastic	
				DSUB	1.8	Shield	Plastic	
				DVI	2.0	Shield	Plastic	
				Stereo	1.6	Shield	Plastic	
Printer	SRP-770	N/A	BIXOLON	Power	1.8	Non-shield	Plastic	DOC
				USB	1.2	Shield	Plastic	
Keyboard	SKG-210P	TAKSC12255P	MONTEREY INTERNATIONAL CORP	PS/2	1.6	Non-shield	Plastic	DOC
Mouse	SML-510P	TAKS702011T	MONTEREY INTERNATIONAL CORP	PS/2	1.8	Non-shield	Plastic	DOC
USB Memory Disk(4G)	UM5	N/A	LG	USB HOST	-	-	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
EMI Test Receiver	ESCI	100364	R&S	2010.05.12	2011.05.12
Spectrum Analyzer	8594E	39911A05752	AGILENT	2009.10.06	2010.10.06
LISN	LISN1600	197204	TTI	2010.07.02	2011.07.02
LISN(EUT)	ESH2-Z5	828739/006	R&S	2009.10.01	2010.10.01
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	August 02, 2010
Ambient Temperature	24
Relative Humidity	44 % R.H.

Result : For the measurement data, see next page.

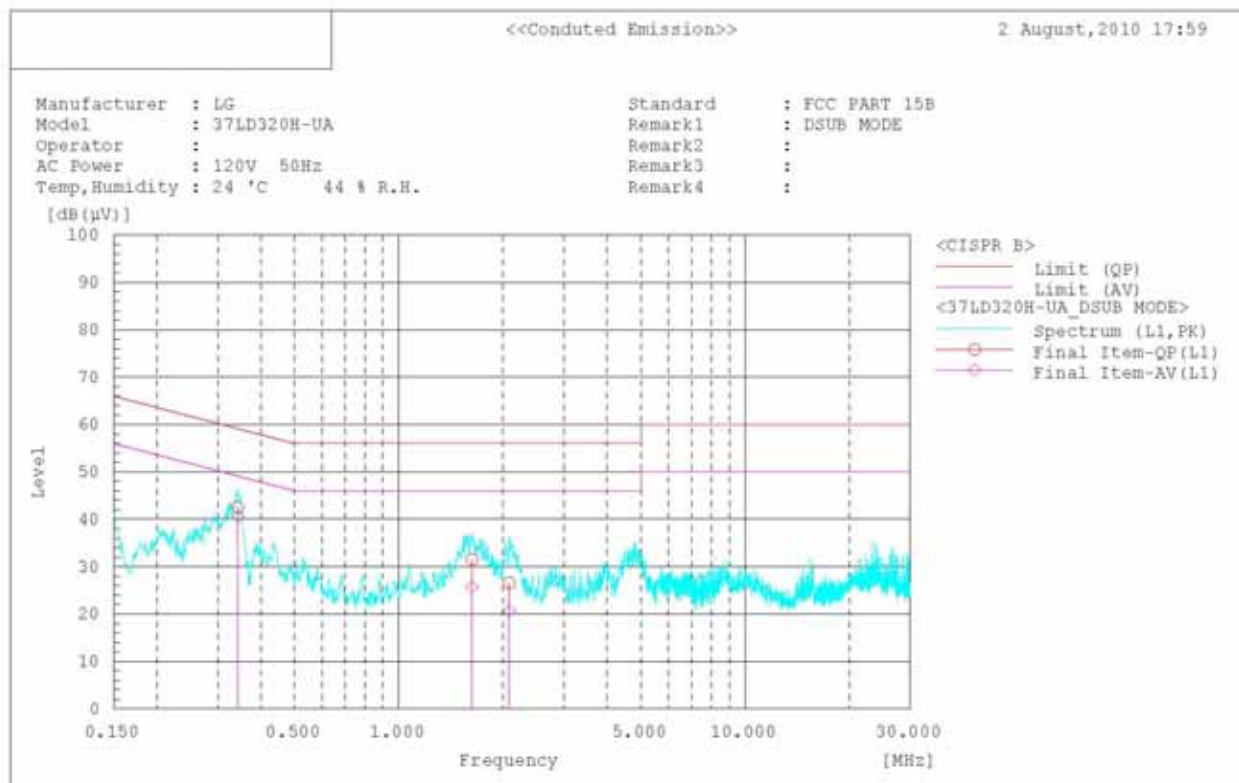
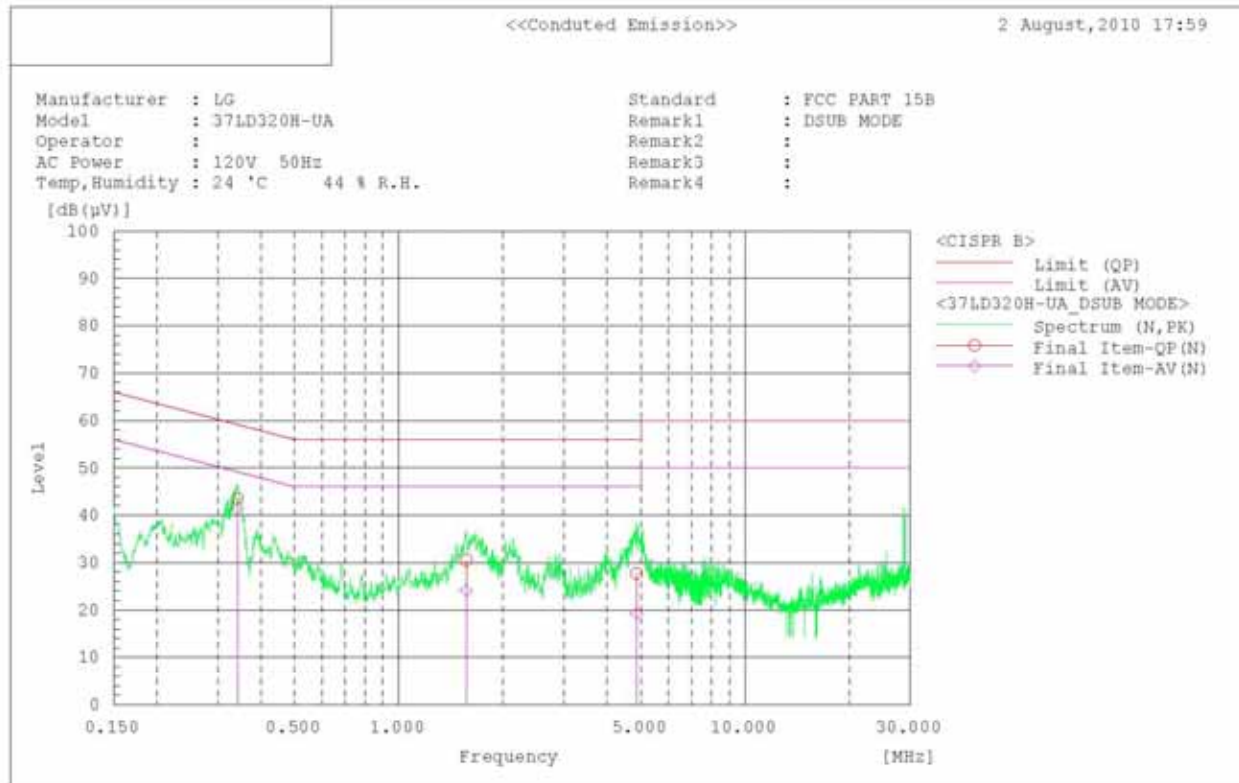
Note) 1. Emission Level = Reading Value + Correction Factor.

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

3. Margin = Limit - Emission level

Test Result

< DSUB MODE >



```

*****
<<Conducted Emission>>
2 August, 2010 17:59

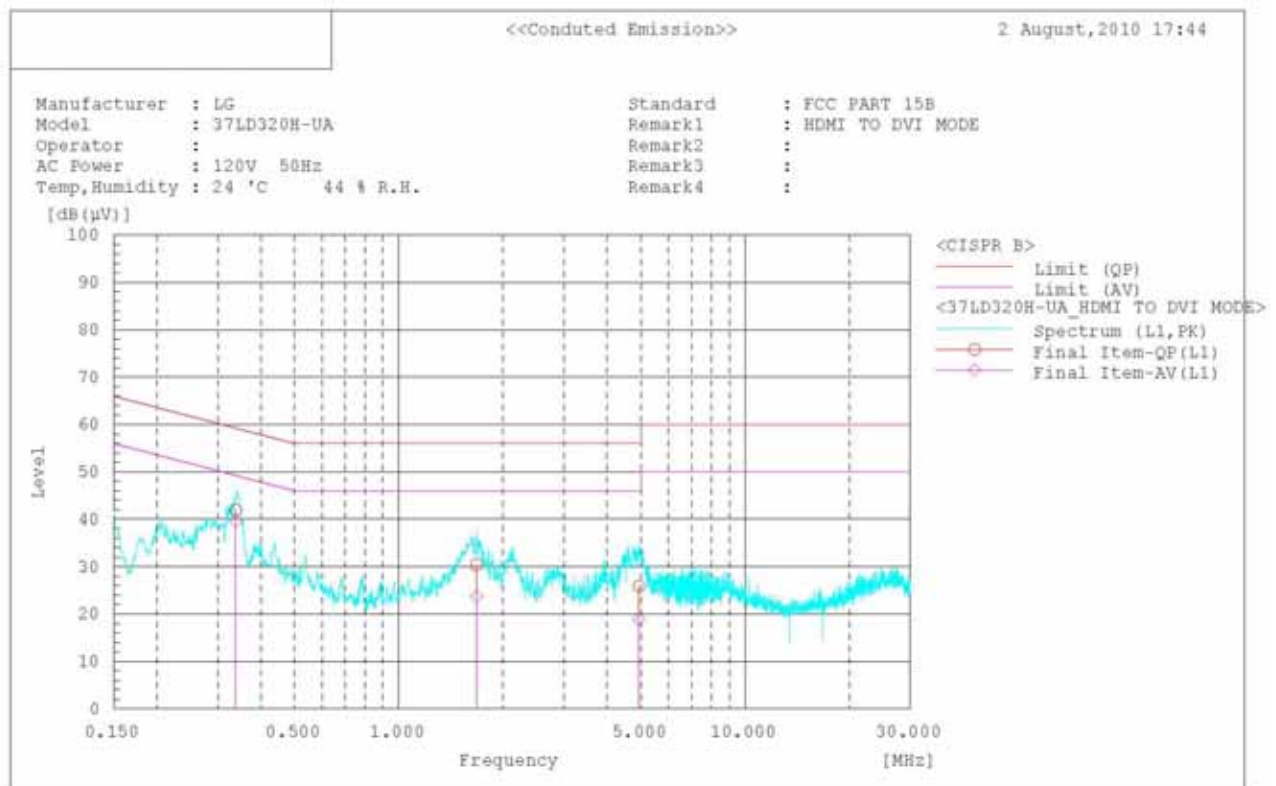
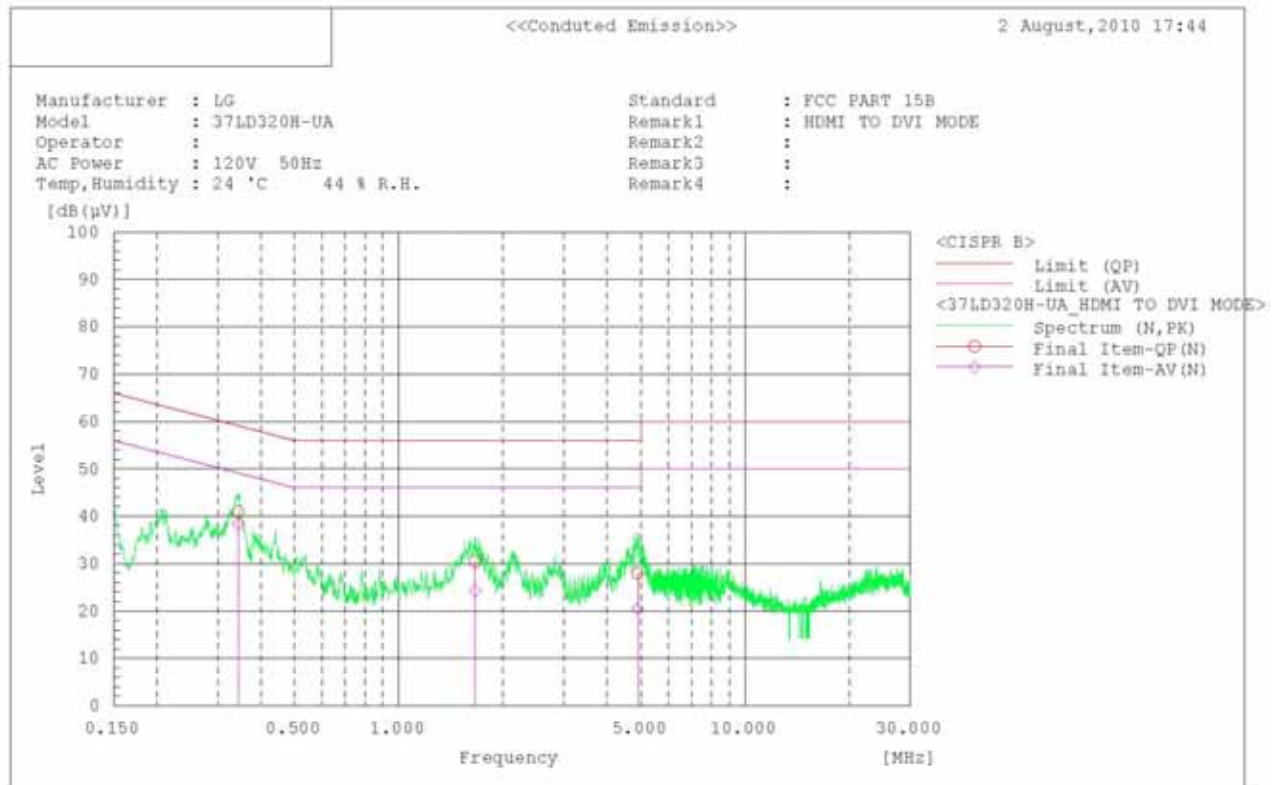
Standard      : FCC PART 15B
Manufacturer  : LG
Model         : 37LD320H-UA
Operator      :
AC Power      : 120V 50Hz
Temp, Humidity : 24 °C 44 % R.H.
Remark1       : DSUB MODE
Remark2       :
Remark3       :
Remark4       :
*****
Final Result

--- N Phase ---
No.  Frequency  Reading  Reading  c.f.  Result  Result  Limit  Limit  Margin  Margin  Remark
      [MHz]    [dB(μV)] [dB(μV)] [dB]   [dB(μV)] [dB(μV)] [dB(μV)] [dB(μV)] [dB]   [dB]
1     0.342     43.4     41.2   0.2    43.6     41.4   59.2   49.2   15.6    7.8
2     1.568     30.3     23.9   0.2    30.5     24.1   56.0   46.0   25.5   21.9
3     4.858     27.3     18.9   0.4    27.7     19.3   56.0   46.0   28.3   26.7

--- L1 Phase ---
No.  Frequency  Reading  Reading  c.f.  Result  Result  Limit  Limit  Margin  Margin  Remark
      [MHz]    [dB(μV)] [dB(μV)] [dB]   [dB(μV)] [dB(μV)] [dB(μV)] [dB(μV)] [dB]   [dB]
1     0.343     42.3     40.4   0.2    42.5     40.6   59.1   49.1   16.6    8.5
2     1.629     31.3     25.5   0.2    31.5     25.7   56.0   46.0   24.5   20.3
3     2.085     26.4     20.5   0.2    26.6     20.7   56.0   46.0   29.4   25.3

```

< DVI TO HDMI MODE >



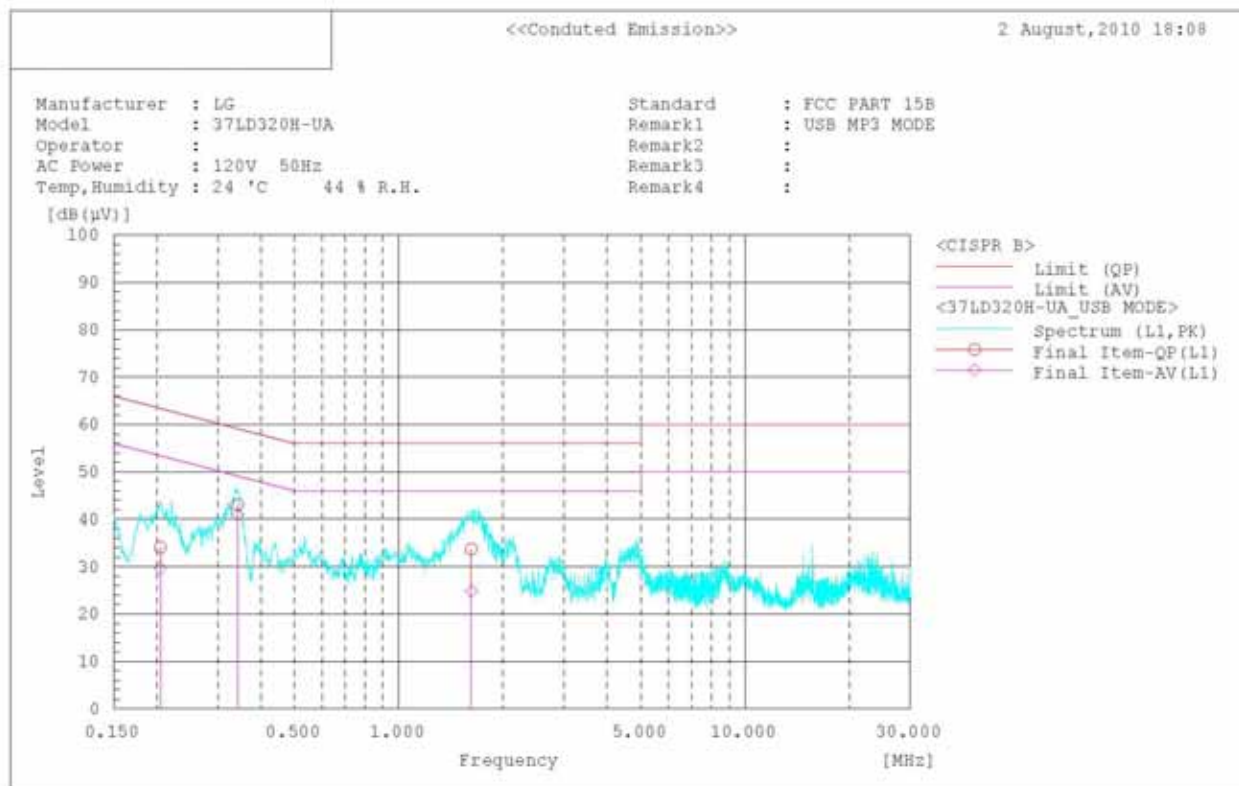
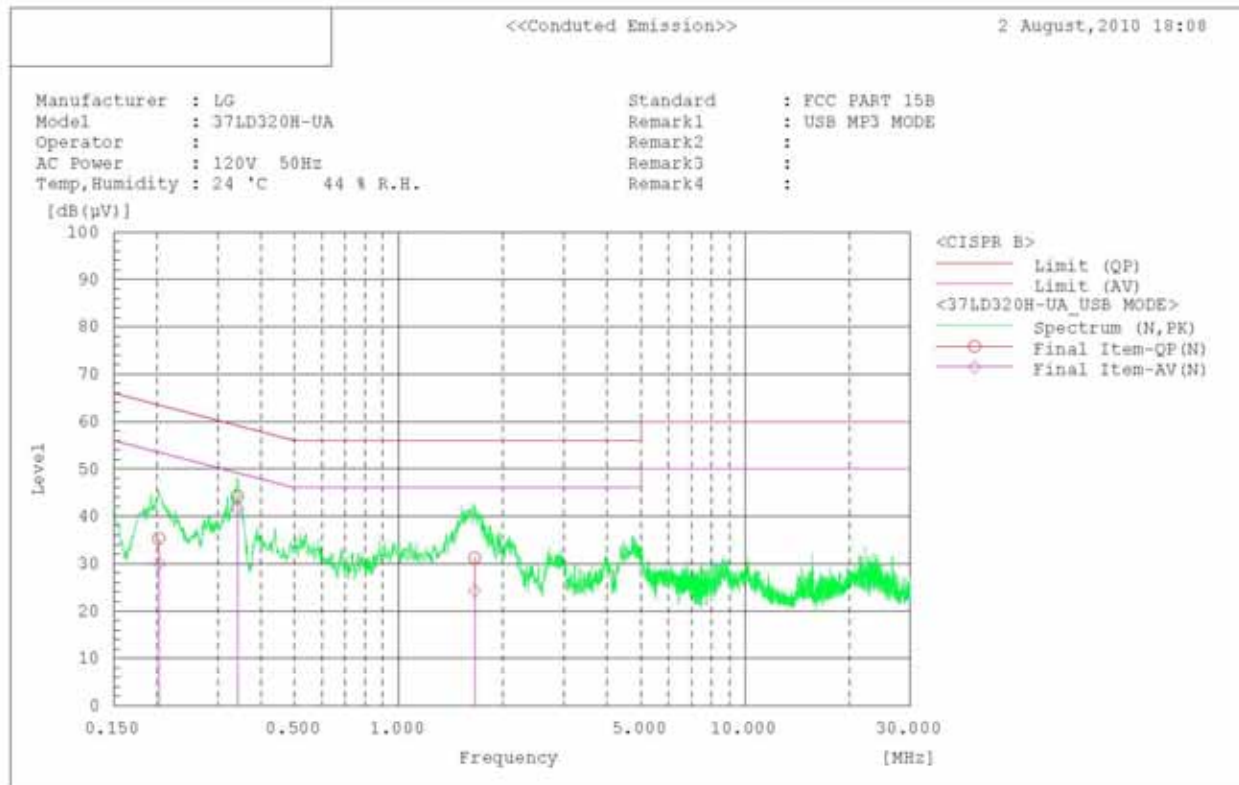
```
*****
<<Conducted Emission>>
2 August, 2010 17:44

Standard      : FCC PART 15B
Manufacturer  : LG
Model         : 37LD320H-UA
Operator      :
AC Power      : 120V 50Hz
Temp, Humidity : 24 °C 44 % R.H.
Remark1       : HDMI TO DVI MODE
Remark2       :
Remark3       :
Remark4       :
*****
Final Result

--- N Phase ---
No.  Frequency  Reading  Reading  c.f.  Result  Result  Limit  Limit  Margin  Margin  Remark
      [MHz]    [dB(µV)] [dB(µV)] [dB]   [dB(µV)] [dB(µV)] [dB(µV)] [dB(µV)] [dB]   [dB]
1     0.344     40.8     38.2     0.2    41.0     38.4    59.1    49.1    18.1    10.7
2     1.662     30.3     24.1     0.2    30.5     24.3    56.0    46.0    25.5    21.7
3     4.901     27.6     20.1     0.4    28.0     20.5    56.0    46.0    28.0    25.5

--- L1 Phase ---
No.  Frequency  Reading  Reading  c.f.  Result  Result  Limit  Limit  Margin  Margin  Remark
      [MHz]    [dB(µV)] [dB(µV)] [dB]   [dB(µV)] [dB(µV)] [dB(µV)] [dB(µV)] [dB]   [dB]
1     0.338     41.8     39.4     0.2    42.0     39.6    59.3    49.3    17.3     9.7
2     1.676     30.2     23.5     0.2    30.4     23.7    56.0    46.0    25.6    22.3
3     4.945     25.5     18.5     0.4    25.9     18.9    56.0    46.0    30.1    27.1
```

< USB MODE >



```

*****
<<Conducted Emission>>
2 August, 2010 18:08

Standard      : FCC PART 15B
Manufacturer  : LG
Model         : 37LD320H-UA
Operator      :
AC Power      : 120V 50Hz
Temp, Humidity : 24 °C 44 % R.H.
Remark1       : USB MP3 MODE
Remark2       :
Remark3       :
Remark4       :
*****
Final Result

--- N Phase ---
No.  Frequency  Reading  Reading  c.f.  Result  Result  Limit  Limit  Margin  Margin  Remark
      [MHz]    [dB(μV)] [dB(μV)] [dB]  [dB(μV)] [dB(μV)] [dB(μV)] [dB(μV)] [dB]  [dB]
1     0.203     35.1     29.8     0.2     35.3     30.0     63.5     53.5     28.2     23.5
2     0.342     44.0     41.5     0.2     44.2     41.7     59.2     49.2     15.0     7.5
3     1.656     31.0     24.1     0.2     31.2     24.3     56.0     46.0     24.8     21.7

--- L1 Phase ---
No.  Frequency  Reading  Reading  c.f.  Result  Result  Limit  Limit  Margin  Margin  Remark
      [MHz]    [dB(μV)] [dB(μV)] [dB]  [dB(μV)] [dB(μV)] [dB(μV)] [dB(μV)] [dB]  [dB]
1     0.205     33.9     29.5     0.2     34.1     29.7     63.4     53.4     29.3     23.7
2     0.343     42.9     40.8     0.2     43.1     41.0     59.1     49.1     16.0     8.1
3     1.620     33.5     24.6     0.2     33.7     24.8     56.0     46.0     22.3     21.2

```

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
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

Test date	August 03, 2010
Ambient Temperature	23
Relative Humidity	46 % 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

Test Result

< DSUB MODE >

- 30MHz-1GHz



RADIATED EMISSION

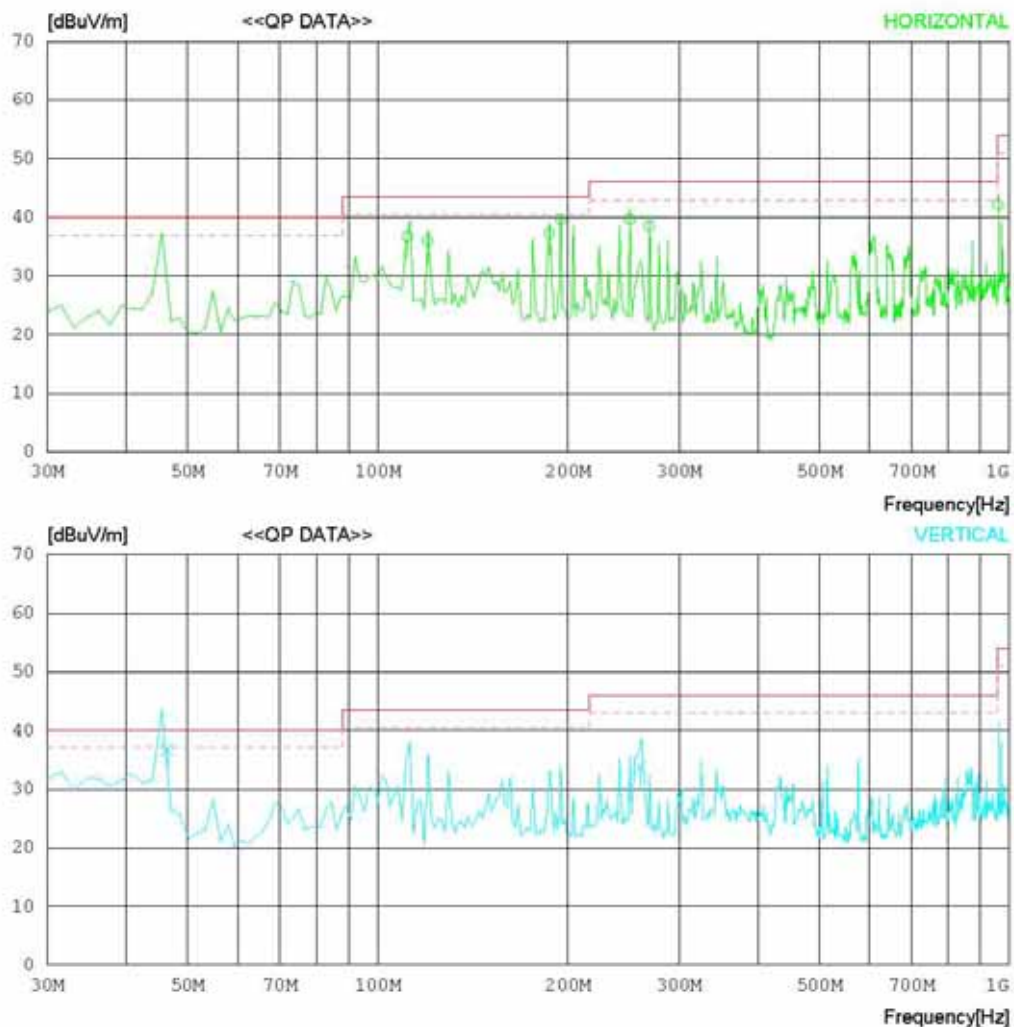
Date : 2010-08-03

Model Name : 37LD320H-UA
Model No. :
Serial No. :
Test Condition : DSUB MODE

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 23°C 46 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2010-08-03

Model Name : 37LD320H-UA
 Model No. :
 Serial No. :
 Test Condition : DSUB MODE

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 23 °C 46 % R.H
 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	111.391	47.4	10.9	1.2	22.8	36.7	43.5	6.8	180	85
2	120.000	46.2	11.3	1.3	22.8	36.0	43.5	7.5	201	332
3	187.000	48.4	10.4	1.6	23.2	37.2	43.5	6.3	201	1
4	194.897	50.7	10.6	1.7	23.3	39.7	43.5	3.8	100	358
5	250.609	48.1	13.3	1.8	23.5	39.7	46.0	6.3	100	358
6	269.160	46.7	13.5	1.9	23.6	38.5	46.0	7.5	100	149
7	960.071	40.2	21.2	3.7	23.0	42.1	54.0	11.9	100	175
----- Vertical -----										
8	46.402	48.7	9.9	0.9	22.7	36.8	40.0	3.2	100	85
9	259.750	42.1	13.4	1.8	23.6	33.7	46.0	12.3	187	240

- 1GHz-3GHz

RADIATED EMISSION

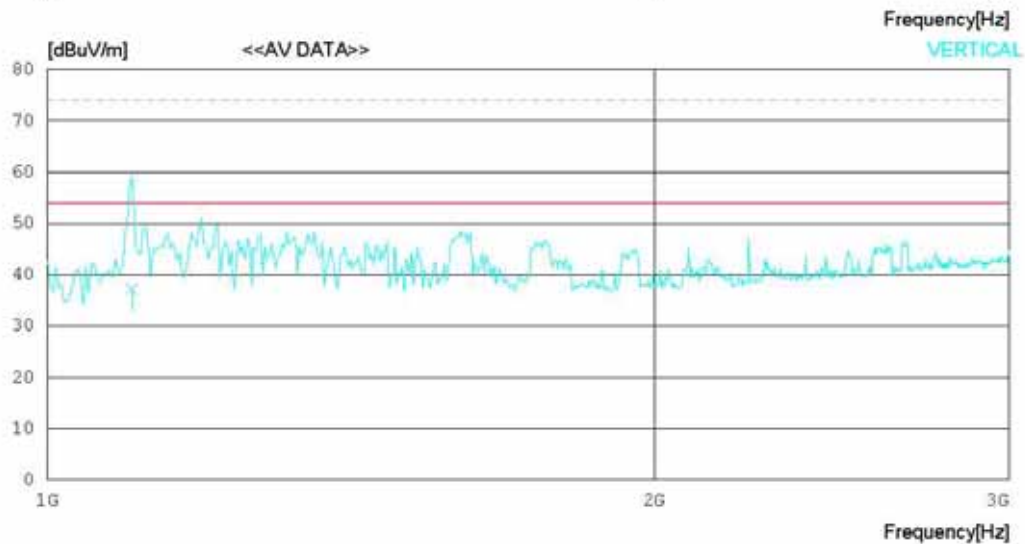
Date : 2010-08-03

Model Name : 37LD320H-UA
Model No. :
Serial No. :
Test Condition : DSUB MODE

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 23 °C 46 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2010-08-03

Model Name	:	37LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	23 °C 46 % 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]	AV	FACTOR							
		[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1124.269	40.7	24.0	5.1	41.9	27.9	54.0	26.1	100	148
2	1197.346	40.6	24.2	5.3	41.9	28.2	54.0	25.8	100	358
3	1209.952	42.1	24.3	5.3	41.9	29.8	54.0	24.2	100	118
4	1301.346	40.5	24.5	5.5	41.9	28.6	54.0	25.4	100	358
5	1930.519	44.4	25.2	6.9	41.9	34.6	54.0	19.4	100	358
----- Vertical -----										
6	1101.391	50.2	23.9	5.0	41.9	37.2	54.0	16.8	100	301



RADIATED EMISSION

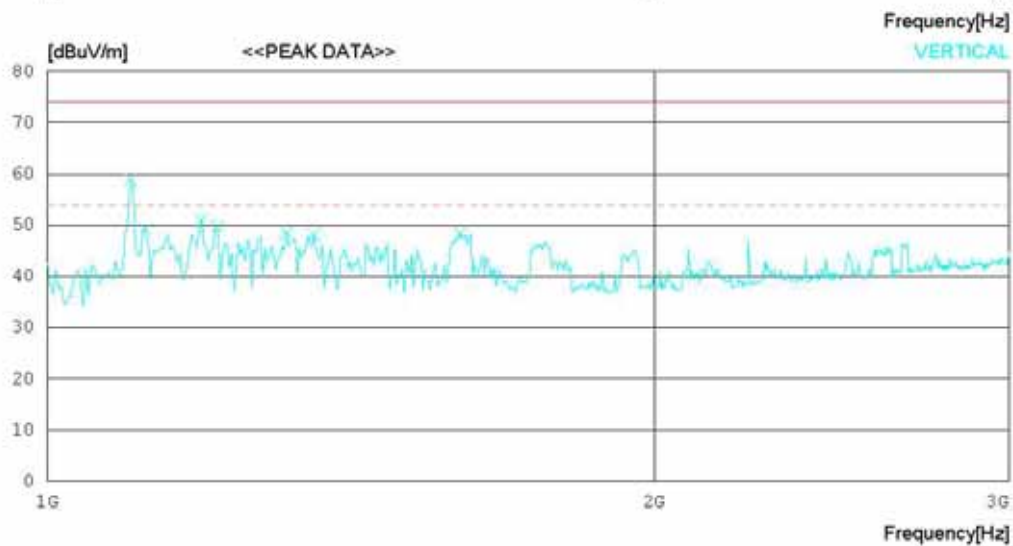
Date : 2010-08-03

Model Name : 37LD320H-UA
Model No. :
Serial No. :
Test Condition : DSUB MODE

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 23 °C 46 % 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 : 2010-08-03

Model Name	:	37LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	23 °C 46 % R.H.
Test Condition	:	DSUB 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	1099.358	69.7	23.9	5.0	41.9	56.7	74.0	17.3	100	358
2	1124.999	66.2	24.0	5.1	41.9	53.4	74.0	20.6	100	148
3	1169.870	60.8	24.1	5.2	41.9	48.2	74.0	25.8	100	358
4	1198.715	64.5	24.2	5.3	41.9	52.1	74.0	21.9	100	358
5	1211.536	66.3	24.3	5.3	41.9	54.0	74.0	20	100	118
6	1233.971	61.5	24.3	5.3	41.9	49.2	74.0	24.8	100	358
7	1282.047	60.7	24.5	5.5	41.9	48.8	74.0	25.2	100	90
8	1304.483	64.3	24.5	5.5	41.9	52.4	74.0	21.6	100	358
9	1314.098	62.3	24.6	5.5	41.9	50.5	74.0	23.5	100	358
10	1320.508	62.1	24.6	5.5	41.9	50.3	74.0	23.7	100	358
11	1865.372	60.1	25.2	6.7	41.9	50.1	74.0	23.9	100	358
12	1926.268	60.3	25.2	6.9	41.9	50.5	74.0	23.5	100	358
13	2067.292	59.4	25.5	7.1	41.9	50.1	74.0	23.9	100	358
----- Vertical -----										
14	1099.358	71.9	23.9	5.0	41.9	58.9	74.0	15.1	100	301
15	1118.588	62.0	24.0	5.1	41.9	49.2	74.0	24.8	100	50
16	1192.305	63.3	24.2	5.3	41.9	50.9	74.0	23.1	100	358
17	1214.741	62.0	24.3	5.3	41.9	49.7	74.0	24.3	100	358
18	1314.098	60.2	24.6	5.5	41.9	48.4	74.0	25.6	100	358
19	1355.764	59.8	24.7	5.6	41.9	48.2	74.0	25.8	100	358
20	1602.555	58.8	25.2	6.2	41.9	48.3	74.0	25.7	100	189

< USB MODE >

- 30MHz-1GHz



RADIATED EMISSION

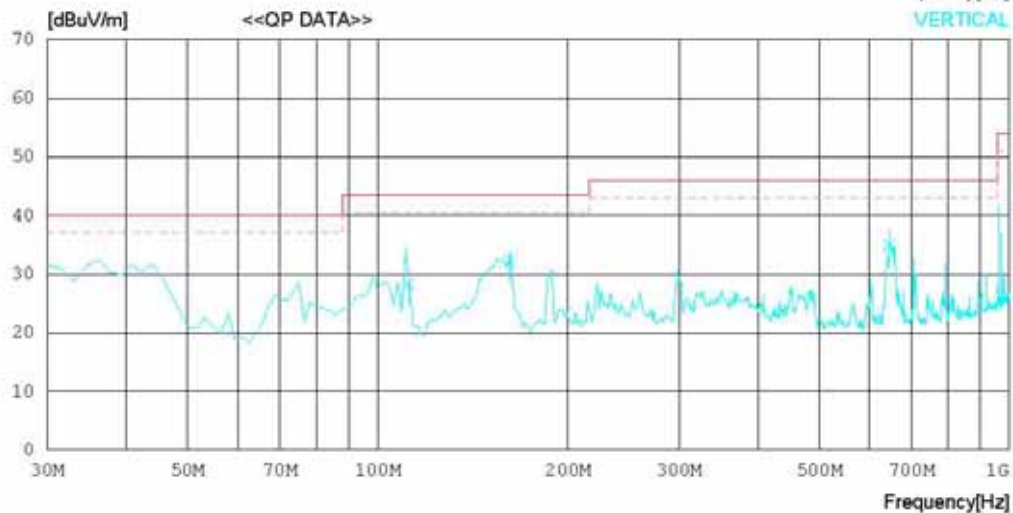
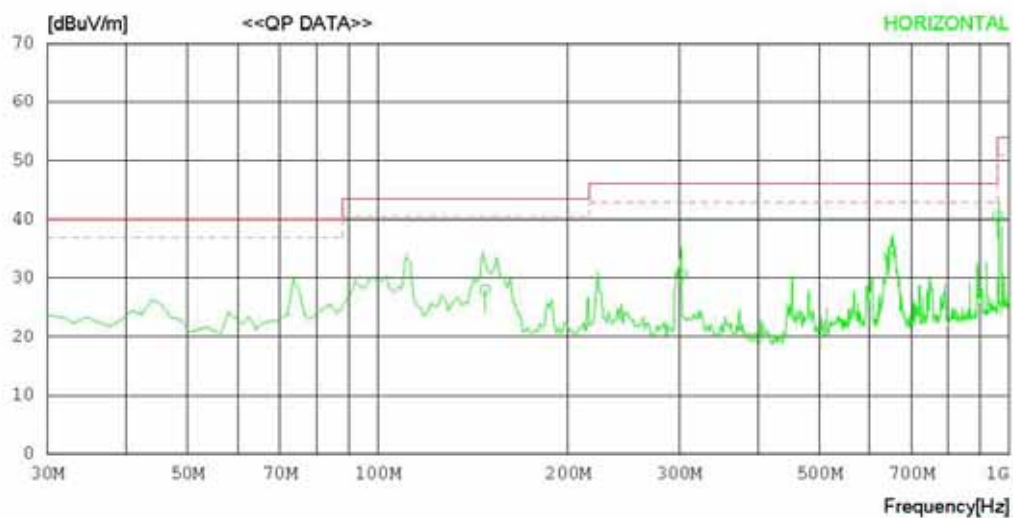
Date : 2010-08-03

Model Name : 37LD320H-UA
Model No. :
Serial No. :
Test Condition : USB MP3 MODE

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 23°C 46 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2010-08-03

Model Name : 37LD320H-UA
 Model No. :
 Serial No. :
 Test Condition : USB MP3 MODE

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 23 °C 46 % 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	147.849	39.2	10.4	1.4	23.0	28.0	43.5	15.5	201	358
2	303.245	38.4	14.0	2.0	23.8	30.6	46.0	15.4	100	1
3	645.240	36.2	18.8	3.0	24.3	33.7	46.0	12.3	201	0
4	960.020	38.6	21.2	3.7	23.0	40.5	54.0	13.5	100	246
----- Vertical -----										
5	111.987	38.8	11.0	1.2	22.8	28.2	43.5	15.3	100	358
6	161.992	43.8	10.2	1.4	23.1	32.3	43.5	11.2	100	302
7	645.272	37.4	18.8	3.0	24.3	34.9	46.0	11.1	100	0

- 1GHz-3GHz



RADIATED EMISSION

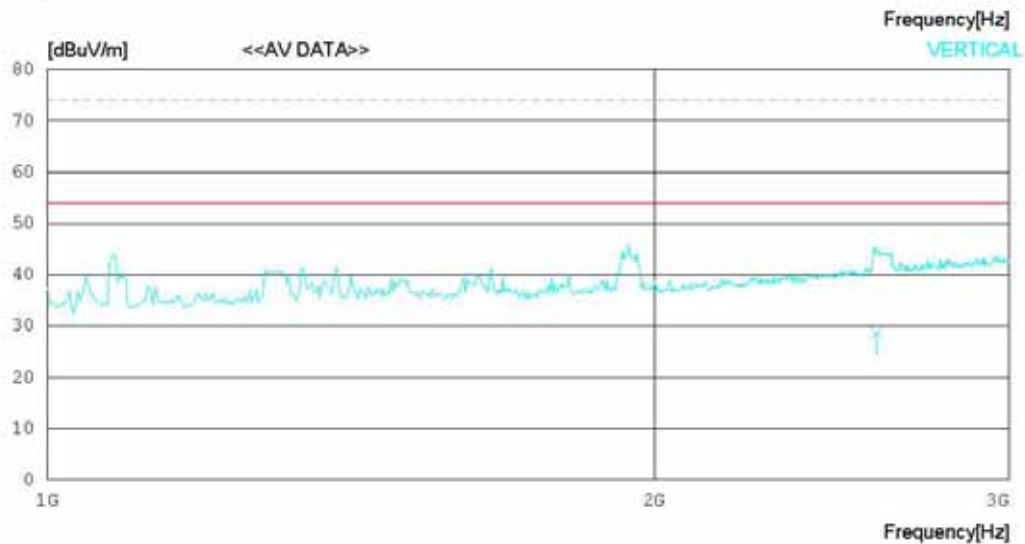
Date : 2010-08-03

Model Name : 37LD320H-UA
Model No. :
Serial No. :
Test Condition : USB MP3 MODE

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 23 °C 46 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2010-08-03

Model Name	:	37LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	23 °C 46 % R.H.
Test Condition	:	USB MP3 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	1080.109	51.5	23.9	5.0	41.9	38.5	54.0	15.5	100	157
2	1929.365	36.4	25.2	6.9	41.9	26.6	54.0	27.4	100	1
----- Vertical -----										
3	2578.653	34.8	27.6	7.9	41.6	28.7	54.0	25.3	100	162



RADIATED EMISSION

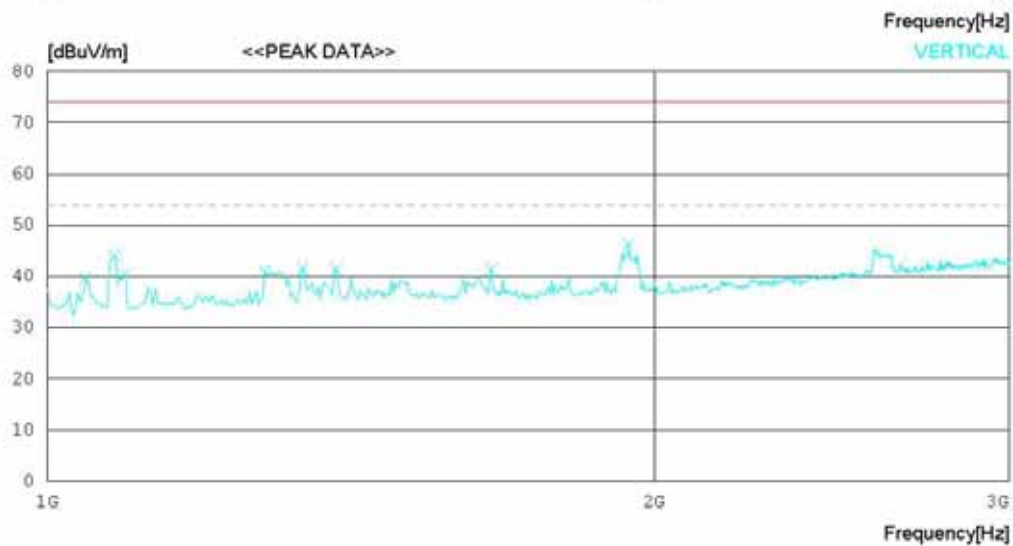
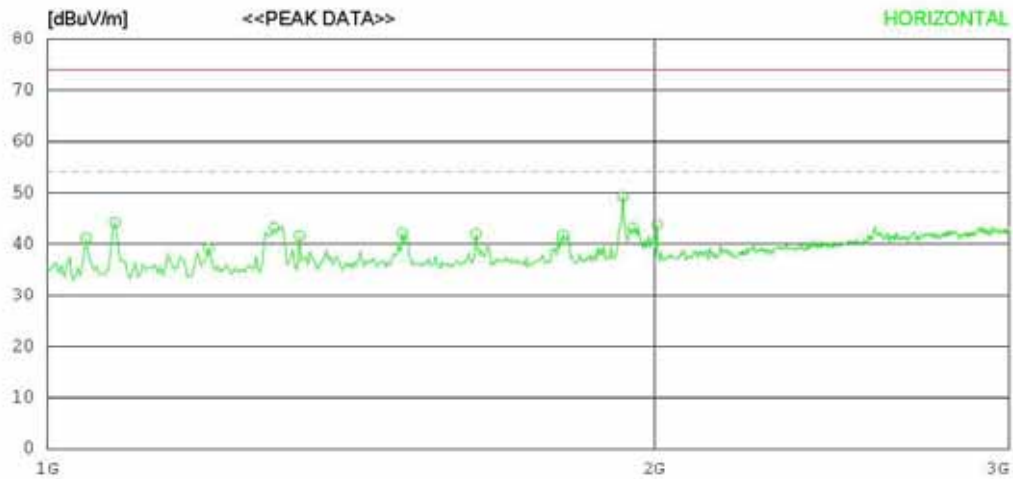
Date : 2010-08-03

Model Name : 37LD320H-UA
Model No. :
Serial No. :
Test Condition : USB MP3 MODE

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 23 °C 46 % 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 : 2010-08-03

Model Name	:	37LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	23 °C 46 % R.H.
Test Condition	:	USB MP3 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	1044.872	54.2	23.8	4.9	41.9	41.0	74.0	33	100	1
2	1080.127	57.2	23.9	5.0	41.9	44.2	74.0	29.8	100	157
3	1201.920	51.5	24.2	5.3	41.9	39.1	74.0	34.9	201	358
4	1294.868	55.1	24.5	5.5	41.9	43.2	74.0	30.8	100	1
5	1333.329	53.3	24.6	5.6	41.9	41.6	74.0	32.4	100	228
6	1499.993	53.0	25.1	5.9	41.9	42.1	74.0	31.9	100	1
7	1631.401	52.4	25.2	6.2	41.9	41.9	74.0	32.1	100	199
8	1801.270	51.8	25.2	6.6	41.9	41.7	74.0	32.3	100	1
9	1929.473	59.0	25.2	6.9	41.9	49.2	74.0	24.8	100	1
10	1951.909	52.9	25.2	6.9	41.9	43.1	74.0	30.9	201	358
11	2006.395	53.4	25.2	7.0	41.9	43.7	74.0	30.3	100	183
----- Vertical -----										
12	1044.872	52.9	23.8	4.9	41.9	39.7	74.0	34.3	201	358
13	1080.127	57.1	23.9	5.0	41.9	44.1	74.0	29.9	201	358
14	1092.948	53.5	23.9	5.0	41.9	40.5	74.0	33.5	100	158
15	1282.047	52.9	24.5	5.5	41.9	41.0	74.0	33	100	172
16	1339.739	53.1	24.7	5.6	41.9	41.5	74.0	32.5	100	1
17	1391.020	52.9	24.8	5.7	41.9	41.5	74.0	32.5	100	168
18	1660.247	51.7	25.2	6.3	41.9	41.3	74.0	32.7	100	190
19	1942.293	56.0	25.2	6.9	41.9	46.2	74.0	27.8	100	162

< DVI TO HDMI MODE >

- 30MHz-1GHz

RADIATED EMISSION

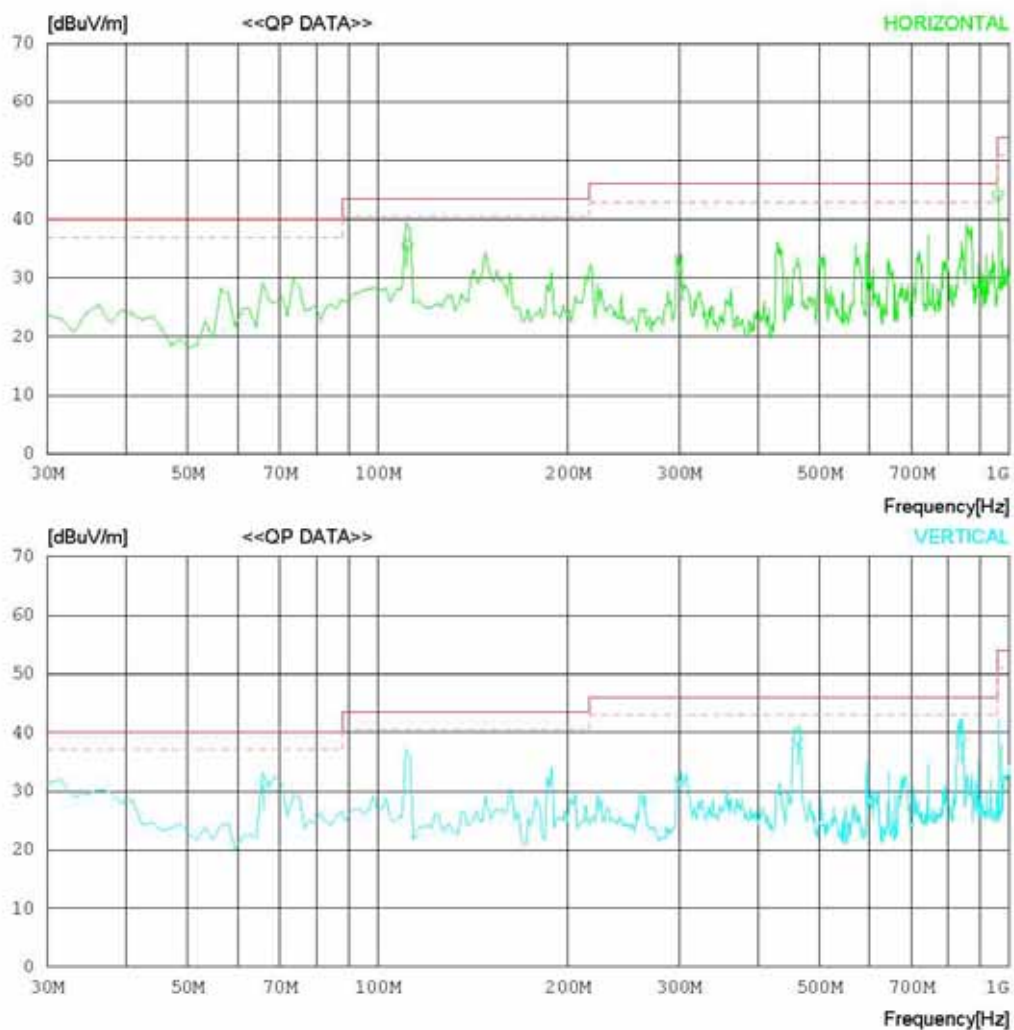
Date : 2010-08-03

Model Name : 37LD320H-UA
 Model No. :
 Serial No. :
 Test Condition : HDMI TO DVI MODE

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 23°C 46 % R.H
 Operator :

Memo :

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



RADIATED EMISSION

Date : 2010-08-03

Model Name	:	37LD320H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	23 °C 46 % R.H
Test Condition	:	HDMI TO DVI MODE	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]	[dBuV]	QF FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	111.385	46.4	10.9	1.2	22.8	35.7	43.5	7.8	220	156
2	960.077	42.3	21.2	3.7	23.0	44.2	54.0	9.8	100	200
----- Vertical -----										
3	66.000	46.1	6.2	1.0	22.7	30.6	40.0	9.4	100	120
4	461.288	43.1	17.0	2.5	24.5	38.1	46.0	7.9	100	120
5	839.163	38.6	19.9	3.4	23.5	38.4	46.0	7.6	100	1

- 1GHz-3GHz



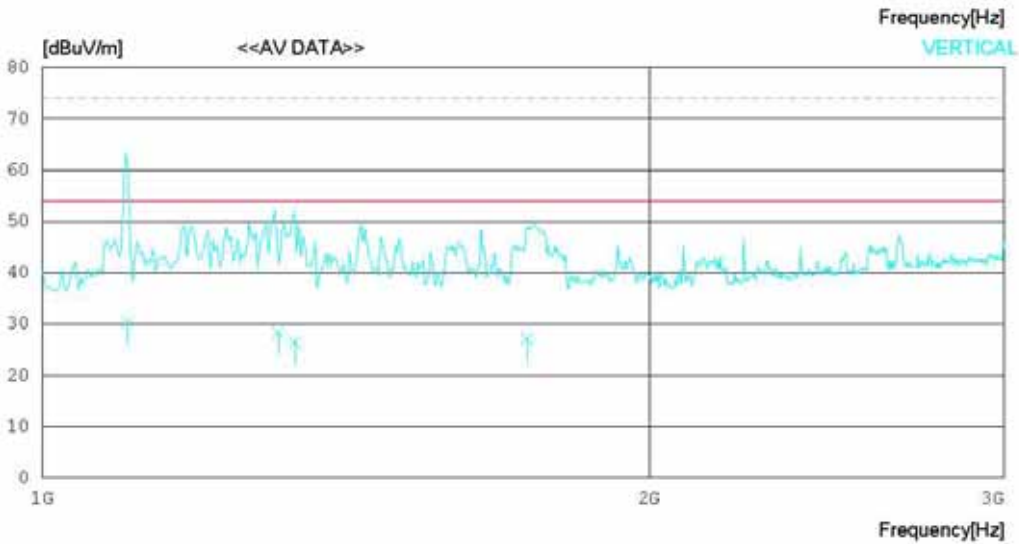
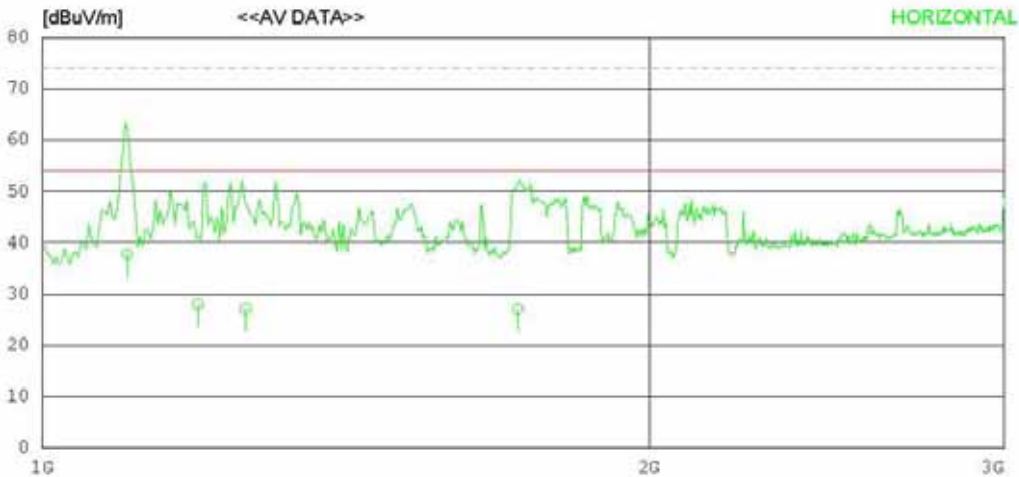
RADIATED EMISSION

Date : 2010-08-03

Model Name	: 37LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 23 °C 46 % R.H.
Test Condition	: HDMI TO DVI 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 : 2010-08-03

Model Name	: 37LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 23 °C 46 % R.H.
Test Condition	: HDMI TO DVI 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	1101.762	50.8	23.9	5.0	41.9	37.8	54.0	16.2	100	358
2	1194.221	40.4	24.2	5.3	41.9	28.0	54.0	26.0	100	139
3	1261.006	39.2	24.4	5.4	41.9	27.1	54.0	26.9	100	358
4	1721.276	37.3	25.2	6.4	41.9	27.0	54.0	27.0	100	189
----- Vertical -----										
5	1101.850	43.3	23.9	5.1	41.9	30.4	54.0	23.6	100	358
6	1309.728	40.1	24.6	5.5	41.9	28.3	54.0	25.7	100	358
7	1334.513	38.2	24.6	5.6	41.9	26.5	54.0	27.5	100	109
8	1740.298	37.3	25.2	6.5	41.9	27.1	54.0	26.9	100	159



RADIATED EMISSION

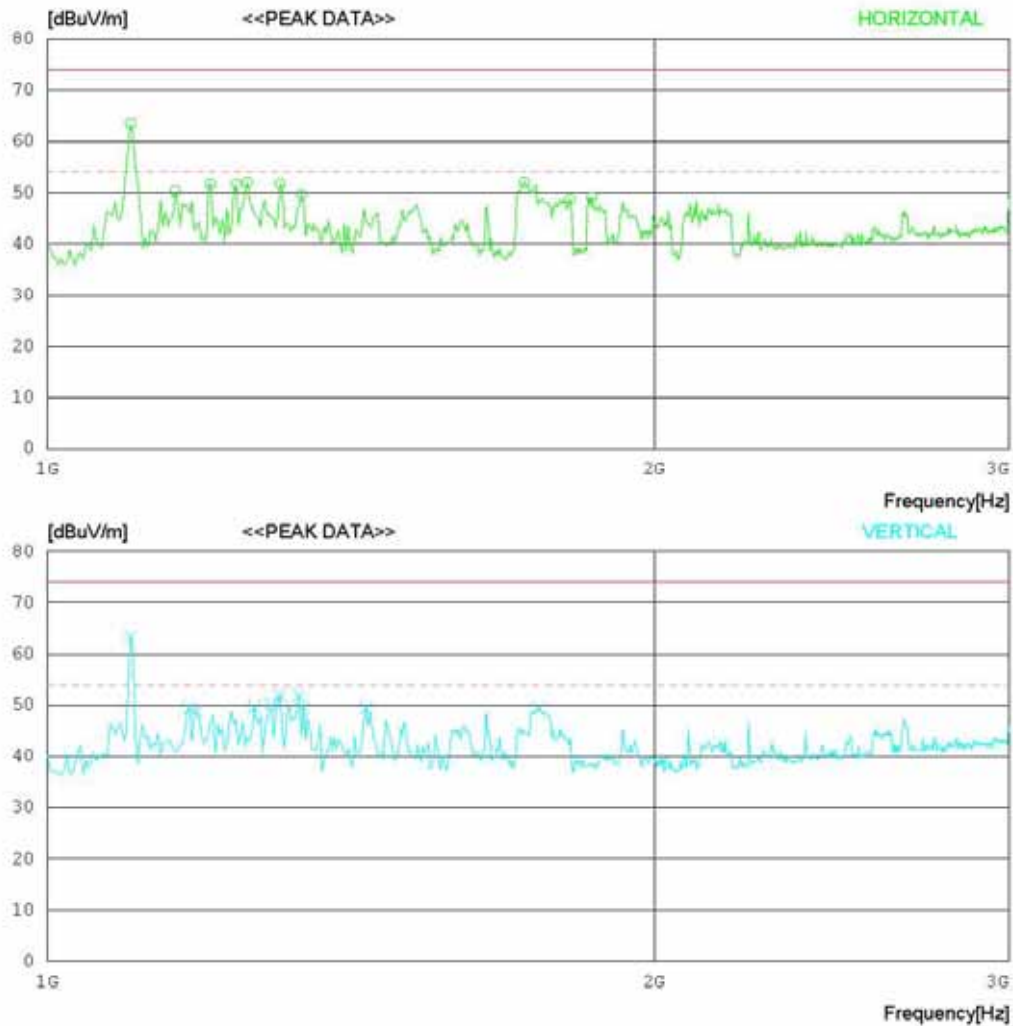
Date : 2010-08-03

Model Name : 37LD320H-UA
 Model No. :
 Serial No. :
 Test Condition : HDMI TO DVI MODE

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 23 °C 46 % 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 : 2010-08-03

Model Name	: 37LD320H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 23 °C 46 % R.H.
Test Condition	: HDMI TO DVI 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	1099.358	76.4	23.9	5.0	41.9	63.4	74.0	10.6	100	358
2	1157.049	62.9	24.1	5.2	41.9	50.3	74.0	23.7	100	96
3	1205.125	64.1	24.2	5.3	41.9	51.7	74.0	22.3	100	139
4	1240.381	63.7	24.4	5.4	41.9	51.6	74.0	22.4	100	358
5	1256.407	64.1	24.4	5.4	41.9	52.0	74.0	22	100	358
6	1304.483	63.7	24.5	5.5	41.9	51.8	74.0	22.2	100	149
7	1336.534	61.3	24.6	5.6	41.9	49.6	74.0	24.4	100	159
8	1724.348	62.3	25.2	6.4	41.9	52.0	74.0	22	100	189
9	1817.295	58.8	25.2	6.6	41.9	48.7	74.0	25.3	100	189
10	1862.167	59.1	25.2	6.7	41.9	49.1	74.0	24.9	100	189
----- Vertical -----										
11	1099.358	76.3	23.9	5.0	41.9	63.3	74.0	10.7	100	358
12	1176.280	61.9	24.2	5.2	41.9	49.4	74.0	24.6	100	42
13	1185.895	61.6	24.2	5.2	41.9	49.1	74.0	24.9	100	358
14	1266.022	61.8	24.4	5.4	41.9	49.7	74.0	24.3	100	358
15	1291.663	62.0	24.5	5.5	41.9	50.1	74.0	23.9	100	358
16	1304.483	63.9	24.5	5.5	41.9	52.0	74.0	22	100	358
17	1333.329	63.6	24.6	5.6	41.9	51.9	74.0	22.1	100	109
18	1339.739	61.2	24.7	5.6	41.9	49.6	74.0	24.4	100	149
19	1439.096	60.5	25.0	5.8	41.9	49.4	74.0	24.6	100	101
20	1753.194	59.6	25.2	6.5	41.9	49.4	74.0	24.6	100	159