



FCC EVALUATION REPORT FOR CERTIFICATION

Manufacturer : LG Electronics Inc.

642, Jinpyung-Dong, Gumi-Si,

Gyeongsangbuk-Do, 730-360, Korea

Attn : Mr. Woo-Hyun Oh, Chief research engineer

Date of Issue : January 24, 2006

Test Report No. : GETEC-E3-06-004

Test Site : Gumi College EMC Center

FCC ID

BEJ37LDB

APPLICANT

LG Electronics Inc.

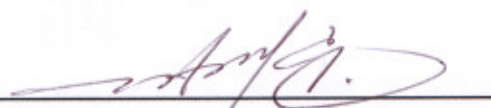
Rule Part(s) : FCC Part 15 Subpart B
Equipment Class : Class B computing device peripheral
EUT Type : 37" LCD TV/Monitor
Model No. : 37LB1DA-UB
Trade name : LG

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003 / Canadian standard ICES-003

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested by,

Reviewed by,


Jae-Hoon Jeong, Associate Engineer
GUMI College EMC center


Tae-Sig Park, Technical Manager
GUMI College EMC center

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1. Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and / or unintentional radiators for compliance with technical rules and regulations of the Federal Communications Commission.

Responsible Party: LG Electronics Inc.

Contact Person: Mr. Woo-Hyun Oh, Chief research engineer

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- **FCC ID** BEJ37LDB
- **EUT Type** 37" LCD TV/Monitor
- **Model No.** 37LB1DA-UB
- **Trade Name** LG
- **Rule Part(s)** FCC Part 15 Subpart B
- **Test Procedure(s)** ANSI C63.4 (2003) / Canadian standard ICES-003
- **Dates of Test** January 17~18, 2006
- **Place of Test** Gumi College EMC Center
- **Test Report No.** GETEC-E3-06-004

2. Introduction

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Nose Emissions From Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ASNI C63.4-2003) was used in determining radiated and conducted emissions emanating from **LG Electronics Inc. 37" LCD TV/Monitor(Model No.: 37LB1DA-UB)**

These measurement tests were conducted at **Gumi College EMC Center**.

The site address is 407, Bugok-Dong, Gumi-City, Gyeongsangbuk-Do, Korea

This test site is one of the highest point of Gumi 1 college at about 200 kilometers away from Seoul city and 40 kilometers away from Daegu city. It is located in the valley surrounded by mountains in all directions where ambient radio signal conditions are quiet and a favorable area to measure the radio frequency interference on open field test site for the computing and ISM devices manufactures. The detailed description of the measurement facility was found to be in compliance with the requirements of §2.948 according to ANSI C63.4 on October 19, 1992



Fig 1. The map above shows the Gumi College in vicinity area.

3. Test Conditions & EUT Information

3.1 Description of EUT

The Equipment Under Test (EUT) is the **LG Electronics Inc. 37" LCD TV/Monitor (Model No.: 37LB1DA-UB)**
FCC ID.: BEJ37LDB

Maximum Resolution(s)	1360× 768 Non-interlaced @ 75Hz(Analog, Digital)
Frequency Range(s)	H-Sync: 31.468 kHz – 60.023kHz V-Sync: 56.25Hz – 75.02Hz
Test pattern	Scrolling Pattern “H”
LCD Panel	LC370WX1 (LG Philips LCD)
Cable(s)	1.8m Power cable Connected to the EUT 1.8m D-sub cable Connected to the EUT and PC 1.8m HDMI cable Connected to the EUT and PC 1.8m S-VHS cable Connected to the EUT and DVD player 3.0m Component cable Connected to the EUT and DVD player 3.0m Component sound cable Connected to the EUT and DVD player 1.8m PC sound input cable Connected to the EUT and PC 1.8m AV input cable Open 1.8m AV output cable Connected to the EUT and Monitor 10m Ant cable Connected to the EUT and TV signal generator

3.2 Support Equipment used

PC	Hewlett Packard D530 S/N: CNG34800PY FCC ID: -
Video card	ATI ATI RV360(9600) S/N: SN0402017176 FCC ID: DoC
Printer	Hewlett Packard 970CXI S/N: MY9B01F1FG FCC ID: DoC
Serial Mouse	LOGITECH M-S69 S/N: 334684-108 FCC ID: JNZ211443
Key-board	COMPAQ 166516-AD6 S/N: B13BBOR391006D FCC ID: AQ6-23K15
Joystick	Microsoft X05-92626 S/N: 9262600296169 FCC ID: DoC
DVD player	PIONEER DV-525 S/N: UEYD012398LL FCC ID: DoC
Monitor	LG Electronics RZ-13LA60 S/N:- FCC ID: DoC
TV signal generator	FLUKE 54200 S/N: 831011 FCC ID: DoC

See “Appendix E – Test Setup Photographs” for actual system test set-up
The verification report for TV mode would be issued by LG Electronics Inc.

4. Description of tests

4.1 Conducted Emission

The Line conducted emission test facility is inside a 4×8×2.5 meter shielded enclosure.

The EUT was placed on a non-conducting 1.0 by 1.5 meter table, which is 0.8 meters in height and 0.4 meters away from the vertical wall of the shielded enclosure.

The EUT is powered from the Rohde & Schwarz LISN (ESH2-Z5) and the support equipment is powered from the Rohde & Schwarz LISN (ESH3-Z5). Powers to the LISN are filtered by high-current high insertion loss power line filter.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

The RF output of the LISN was connected to the EMI test receiver (Rohde & Schwarz, ESCS30).

The EMI test receiver was scanned from 150kHz to 30MHz with 20msec sweep time to determine the frequency producing the maximum EME from the EUT. The frequency producing the maximum level was re-examined using Quasi-Peak mode of the EMI test receiver.

The bandwidth of Quasi-peak mode was set to 9KHz. Each emission was maximized consistent with typical applications by varying the configuration of the test sample. Interface cables were connected to the available interface ports of the test unit. The effect of varying the position of cables was investigated to find the configuration that produces maximum diagram emission. Excess cable lengths were bundled at center with 30 – 40 centi-meters.

The worst operating condition of the test sample was found out by varying operating mode.

And, the worst-case test 4 modes (1360*768/75Hz(Analog), 1360*768/75Hz(Digital), 800*600/75Hz(Analog), 640*480/60Hz(Analog)) and configuration were noted in the test report and the photographs were attached.

Each EME reported was calibrated using the R/S signal generator

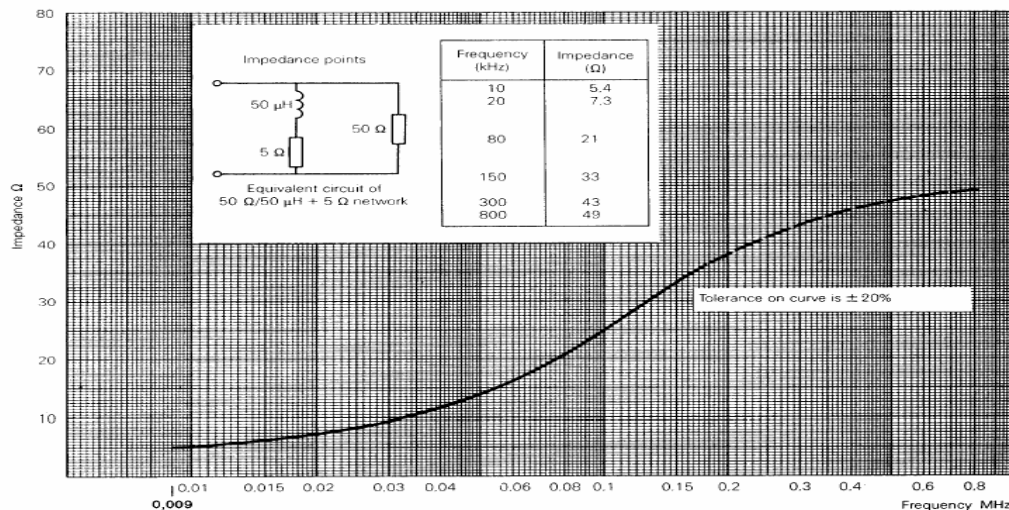


Fig 2. Impedance of LISN

4.2 Radiated Emission

Preliminary measurements were conducted 3m semi anechoic chamber using broadband antennas to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The technology configuration, mode of operation and turntable azimuth with respect to antenna was note for each frequency found.

The spectrum was scanned from 30 to 1000MHz using bicornical log antenna (Schwarzbeck, VULB9160). Above 1GHz, horn antenna (Schwarzbeck, BBHA9120D) was used.

Final measurements were made outdoors at 3m/10m-test range.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

Each frequency found during pre-scan measurements was re-examined and investigated using EMI test receiver. The detector function was set to CISPR quasi-peak mode average mode and the bandwidth of the receiver was set to 120KHz or 1MHz depending on the frequency or type of signal.

The EUT, support equipment and interconnecting cables were reconfigured to the setup producing the maximum emission for the frequency and were placed on top of a 0.8m high non-metallic 1.0×1.5 meter table.

The turntable containing the test sample was rotated; the antenna height was varied 1 to 4 meter and stopped at the azimuth or height producing the maximum emission.

Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling "H" pattern to the EUT and / or support equipment and powering the monitor from mounted outlet box, if applicable; and changing the polarity of the antenna whichever determined the worst case emission.

The worst-case test 2 modes (1360*768/75Hz(Analog), 1360*768/75Hz(Digital)) and configuration were noted in the test report and the photographs were attached.

Each EME reported was calibrated using the R/S signal generator

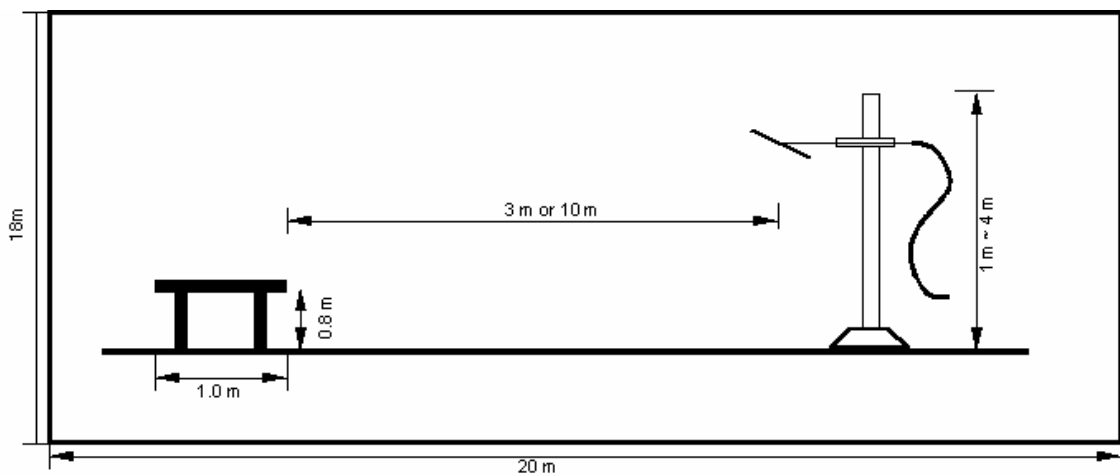


Fig 3. Dimensions of Open Site Test Area

5. Conducted Emission

5.1 Operating environment

Temperature : 23 °C
Relative humidity : 40 %

5.2 Test set-up

The conducted emission measurements were performed in the shielded room.

The EUT was placed on wooden table, 0.8m heights above the floor, 0.4m from the reference ground plane (GRP) wall and 0.8m from AMN.

AMN is bonded on horizontal reference ground plane.

The ground plane, which was electrically bonded to the shield room, ground system and all power lines entering the shield room, were filtered.

5.3 Measurement uncertainty

The measurement uncertainty was calculated in accordance with ISO "Guide to the expression of uncertainty in measurement".

The measurement uncertainty was given with a confidence of 95%.

Contribution	Probability Distribution	Uncertainty (±dB)	
		Power Port	Communication port
Receiver specification	Rectangular	0.50	0.50
LISN coupling specification	Rectangular	1.50	
ISN coupling specification	Rectangular		1.50
Mismatch LISN VRC : $\Gamma_l =$ 0.20 ISN VRC : $\Gamma_l =$ 0.20 ATT VRC(IN) : $\Gamma_g =$ 0.03 Uncertainty limits $20\log(1 \pm \Gamma_l \Gamma_g)$	U-shaped	0.05 -0.05	0.05 -0.05
Mismatch Receiver VRC : $\Gamma_l =$ 0.09 ATT VRC : $\Gamma_g =$ 0.11 Uncertainty limits $20\log(1 \pm \Gamma_l \Gamma_g)$	U-shaped	0.09 -0.09	0.09 -0.09
System repeatability	Std Deviation	0.11	0.11
Cable and input attenuator calibration	Normal (k=2)	0.04	0.04
Repeatability of EUT			
Combined standard uncertainty $U_c(y)$	Normal	0.92 -0.92	0.92 -0.92
Extended uncertainty U	Normal (k=2)	1.85 -1.85	1.85 -1.85

5.4 Limit

RFI Conducted	FCC Limit(dB) Class B	
Freq. Range	Quasi-Peak	Average
150kHz – 0.5MHz	66 – 56*	56 – 46*
0.5MHz – 5MHz	56	46
5MHz – 30MHz	60	50
*Limits decreases linearly with the logarithm of frequency.		

5.5 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Calibrated Date
■ - ESCS30	Rohde & Schwarz	EMI test receiver	839809/003	12. 14. 2005
■ - ESH3-Z5	Rohde & Schwarz	Artificial mains network	838979/020	12. 16. 2005
■ - ESH2-Z5	Rohde & Schwarz	Artificial mains network	829991/009	12. 16. 2005

5.6 Test data for power line conducted emission

- Test Date : January 18, 2006
 - Resolution bandwidth : 9kHz
 - Frequency range : 0.15MHz ~ 30MHz

◆ Test resolution: 1360*768/75Hz(Analog)

Frequency (MHz)	Insertion Loss	Cable Loss	Pol.	Quasi-Peak[dBuV]			Average[dBuV]			Margin[dBuV]	
				Limit	Reading	Result	Limit	Reading	Result	Quasi	Average
0.180	0.10	-0.19	H	64.49	45.8	45.71	54.49	32.9	32.81	18.78	21.68
0.195	0.11	-0.22	N	63.82	45.3	45.19	53.82	39.1	38.99	18.64	14.84
0.275	0.11	-0.19	N	60.97	36.8	36.72	50.97	31.6	31.52	24.24	19.44
0.350	0.13	-0.15	H	58.96	47.6	47.58	48.96	36.7	36.68	11.38	12.28
0.435	0.14	-0.14	H	57.16	36.5	36.50	47.16	25.8	25.80	20.66	21.36
0.660	0.15	-0.23	H	56.00	29.7	29.62	46.00	22.5	22.42	26.38	23.58
0.820	0.13	-0.23	N	56.00	26.1	26.00	46.00	17.2	17.10	30.00	28.90
21.850	0.65	0.12	N	60.00	29.0	29.77	50.00	26.0	26.77	30.23	23.23
26.270	0.75	0.11	H	60.00	19.5	20.36	50.00	14.9	15.76	39.64	34.24

*Comment : Pol : H (Live), N(Neut)

Insertion Loss : Insertion Loss of LISN

Cable Loss : Cable Loss + Pulse Limiter Insertion loss value

◆ Test resolution: 1360*768/75Hz(Digital)

Frequency (MHz)	Insertion Loss	Cable Loss	Pol.	Quasi-Peak[dBuV]			Average[dBuV]			Margin[dBuV]	
				Limit	Reading	Result	Limit	Reading	Result	Quasi	Average
0.175	0.09	-0.19	N	64.72	46.2	46.11	54.72	34.1	34.01	18.61	20.71
0.195	0.12	-0.22	H	63.82	44.0	43.89	53.82	38.0	37.89	19.93	15.93
0.255	0.12	-0.20	H	61.59	37.8	37.72	51.59	32.4	32.32	23.87	19.27
0.345	0.13	-0.15	H	59.08	47.8	47.78	49.08	36.3	36.28	11.30	12.80
0.440	0.14	-0.14	H	57.06	34.7	34.69	47.06	25.0	24.99	22.37	22.07
0.630	0.15	-0.23	H	56.00	33.8	33.72	46.00	22.5	22.42	22.28	23.58
0.700	0.13	-0.23	N	56.00	34.1	34.00	46.00	22.8	22.70	22.00	23.30
21.850	0.65	0.12	N	60.00	29.4	30.17	50.00	27.6	28.37	29.83	21.63
26.770	0.77	0.11	H	60.00	18.5	19.38	50.00	13.7	14.58	40.62	35.42

*Comment : Pol : H (Live), N(Neut)

Insertion Loss : Insertion Loss of LISN

Cable Loss : Cable Loss + Pulse Limiter Insertion loss value

◆ Test resolution: 800*600/75Hz(Analog)

Frequency (MHz)	Insertion Loss	Cable Loss	Pol.	Quasi-Peak[dBuV]			Average[dBuV]			Margin[dBuV]	
				Limit	Reading	Result	Limit	Reading	Result	Quasi	Average
0.185	0.11	-0.20	H	64.26	45.2	45.10	54.26	32.9	32.80	19.16	21.46
0.195	0.12	-0.22	H	63.82	45.3	45.19	53.82	38.4	38.29	18.63	15.53
0.265	0.11	-0.19	N	61.27	37.4	37.32	51.27	31.7	31.62	23.96	19.66
0.345	0.13	-0.15	H	59.08	48.1	48.08	49.08	35.9	35.88	11.00	13.20
0.435	0.14	-0.14	H	57.16	36.6	36.60	47.16	27.5	27.50	20.56	19.66
0.695	0.13	-0.23	N	56.00	36.8	36.70	46.00	25.2	25.10	19.30	20.90
0.820	0.13	-0.23	N	56.00	26.6	26.50	46.00	17.0	16.90	29.50	29.10
21.855	0.65	0.12	N	60.00	28.5	29.27	50.00	25.4	26.17	30.73	23.83
22.040	0.73	0.13	H	60.00	25.1	25.96	50.00	21.0	21.86	34.04	28.14

*Comment : Pol : H (Live), N(Neut)

Insertion Loss : Insertion Loss of LISN

Cable Loss : Cable Loss + Pulse Limiter Insertion loss value

◆ Test resolution: 640*480/60Hz(Analog)

Frequency (MHz)	Insertion Loss	Cable Loss	Pol.	Quasi-Peak[dBuV]			Average[dBuV]			Margin[dBuV]	
				Limit	Reading	Result	Limit	Reading	Result	Quasi	Average
0.185	0.11	-0.20	H	64.26	45.0	44.90	54.26	32.9	32.80	19.36	21.46
0.195	0.11	-0.22	N	63.82	45.6	45.49	53.82	39.2	39.09	18.34	14.74
0.280	0.11	-0.19	N	60.82	36.4	36.33	50.82	31.6	31.53	24.49	19.29
0.350	0.12	-0.15	N	58.96	47.8	47.77	48.96	35.8	35.77	11.19	13.19
0.440	0.14	-0.14	H	57.06	36.0	35.99	47.06	28.0	27.99	21.07	19.07
0.695	0.13	-0.23	N	56.00	36.3	36.20	46.00	24.8	24.70	19.80	21.30
0.820	0.13	-0.23	N	56.00	26.6	26.50	46.00	17.2	17.10	29.50	28.90
21.865	0.65	0.12	N	60.00	27.2	27.97	50.00	25.1	25.87	32.03	24.13
24.615	0.60	0.03	N	60.00	28.1	28.73	50.00	20.5	21.13	31.27	28.87

*Comment : Pol : H (Live), N(Neut)

Insertion Loss : Insertion Loss of LISN

Cable Loss : Cable Loss + Pulse Limiter Insertion loss value

6. Radiated Emission

6.1 Operating environment

Temperature : -4℃
Relative humidity : 58 %

6.2 Test set-up

A preliminary scan with peak mode was performed in the semi anechoic chamber and found frequency for open area test site.

The formal radiated emission was measured at 3m/10m-distance open area test site.

The EUT was placed on a non-conductive turntable approximately 0.8 meters above the ground plane.

The turntable with EUT was rotated 360°, and the antenna was varied in height between 1.0 and 4.0 meters in order to determine the maximum emission levels.

This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

6.3 Measurement uncertainty

The measurement uncertainty was calculated in accordance with ISO “Guide to the expression of uncertainty in measurement”.

The measurement uncertainty was given with a confidence of 95%.

Contribution	Probability Distribution	Uncertainty (dB)			
		Biconical Ant.		Log-periodic Ant.	
		3m	10m	3m	10m
Ambient signal					
Antenna factor calibration	Normal (k=2)	0.50	0.50	0.50	0.50
Receiver specification	Rectangular	0.50	0.50	0.50	0.50
Antenna directivity	Rectangular	0.25	0.00	1.50	0.25
Antenna phase center variation	Rectangular	0.00	0.00	1.00	0.20
Antenna factor frequency interpolation	Rectangular	0.25	0.25	0.25	0.25
Measure distance variation	Rectangular	0.60	0.40	0.60	0.40
Site imperfections	Rectangular	1.46	-2.32	2.26	2.94
Mismatch Receiver VRC : $\Gamma_l = 0.09$ Antenna VRC : $\Gamma_g = 0.43$ (Bi) 0.23 (Lp) Uncertainty limits $20\log(1 \pm \Gamma_l \Gamma_g)$	U-shaped	0.33 -0.35	0.33 -0.35	0.33 -0.18	0.33 -0.18
System repeatability	Std Deviation	0.18	0.18	0.17	0.17
Cable loss calibration	Normal (k=2)	0.05	0.05	0.05	0.05
Combined standard uncertainty $U_c(y)$	Normal	1.05 -1.05	1.45 -1.45	1.78 -1.77	1.80 -1.78
Extended uncertainty U	Normal (k=2)	2.11 -2.11	2.90 -2.90	3.55 -3.53	3.59 -3.57

6.4 Limit

Frequency (MHz)	FCC Limit @ 3m. dB μ V/m	CISPR Limit @ 10m. dB μ V/m
30 – 88	40.0	30.0
88 – 216	43.5	30.0
216 – 230	46.0	30.0
230 – 960	46.0	37.0
960 – 1000	54.0	37.0
> 1000	54.0	No Specified limit

6.5 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Calibrated Date
■ - ESI	Rohde & Schwarz	EMI test receiver	830482/010	12. 2. 2005
■ - ESCS30	Rohde & Schwarz	EMI test receiver	839809/003	12. 14. 2005
■ - HK116	Rohde & Schwarz	Biconical ANT	826861/018	12. 2. 2005
■ - HL223	Rohde & Schwarz	Log-periodic antenna	829228/011	12. 2. 2005
■ - HD100	HD GmbH	Position Controller	100/692/01	NCR
■ - DS415S	HD GmbH	Turntable	415/657/01	NCR
■ - MA240	HD GmbH	Antenna Mast	240/565/01	NCR

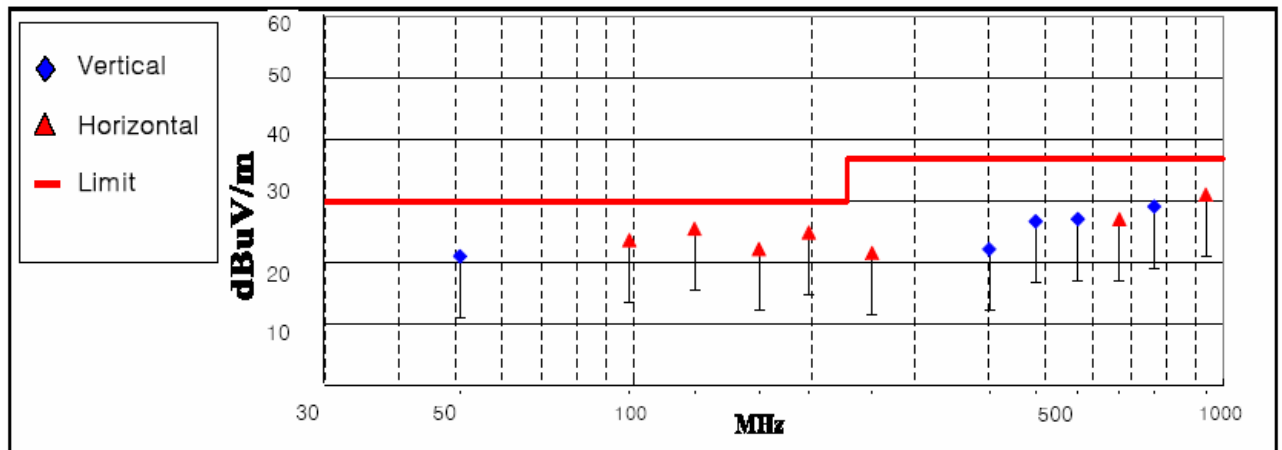
6.6 Test data for radiated emission

- Test Date : January 17, 2006
- Resolution bandwidth : 120kHz
- Frequency range : 30MHz ~ 1000MHz

◆ Operating Condition: 1360*768/75Hz(Analog)

Detector mode: Quasi- peak detector mode

Frequency (MHz)	Measurement Level				Limit (dBuV/m)	Margin (dBuV/m)	Positioning System		
	Reading Value(dBuV)	Antenna Factor(dB)	Cable Loss(dB)	Test Result (dBuV/m)			Pol. (H/V)	Height (cm)	Angle (deg)
50.84	9.9	9.23	2.01	21.1	30.0	8.9	V	102	354
98.40	11.4	9.62	2.68	23.7	30.0	6.3	H	387	9
126.94	11.4	11.17	3.02	25.6	30.0	4.4	H	400	355
163.20	6.1	12.64	3.52	22.3	30.0	7.7	H	392	82
198.22	7.3	13.78	3.87	25.0	30.0	5.0	H	106	200
253.77	1.2	15.89	4.55	21.6	37.0	15.4	H	100	270
400.65	0.4	15.73	6.10	22.2	37.0	14.8	V	103	354
480.45	3.2	17.05	6.50	26.8	37.0	10.2	V	105	30
566.61	1.7	18.33	7.13	27.2	37.0	9.8	V	120	355
666.62	-0.4	19.92	7.65	27.2	37.0	9.8	H	104	200
763.08	-0.2	21.11	8.28	29.2	37.0	7.8	V	397	10
933.26	-0.5	22.32	9.33	31.2	37.0	5.8	H	400	187

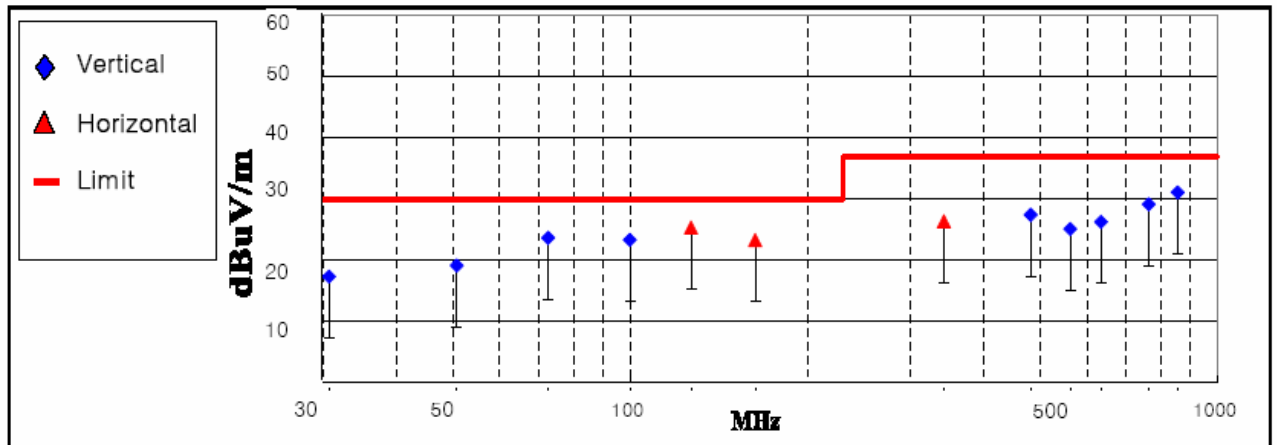


< Fig 4. Radiated emission result _ Analog >

◆ Operating Condition: 1360*768/75Hz(Digital)

Detector mode: Quasi- peak detector mode

Frequency (MHz)	Measurement Level				Limit (dBuV/m)	Margin (dBuV/m)	Positioning System		
	Reading Value(dBuV)	Antenna Factor(dB)	Cable Loss(dB)	Test Result (dBuV/m)			Pol. (H/V)	Height (cm)	Angle (deg)
30.70	2.2	13.52	1.63	17.3	30.0	12.7	V	399	227
50.68	7.9	9.25	2.01	19.2	30.0	10.8	V	103	3
72.50	13.6	7.86	2.25	23.7	30.0	6.3	V	101	350
99.80	10.9	9.78	2.70	23.4	30.0	6.6	V	104	357
126.94	11.2	11.17	3.02	25.4	30.0	4.6	H	400	200
163.20	7.2	12.64	3.52	23.4	30.0	6.6	H	394	83
342.03	6.9	13.98	5.52	26.4	37.0	10.6	H	105	74
480.62	3.9	17.06	6.50	27.5	37.0	9.5	V	102	30
560.84	-0.3	18.35	7.09	25.1	37.0	11.9	V	400	187
633.20	-0.3	19.15	7.48	26.3	37.0	10.7	V	103	10
763.04	-0.2	21.11	8.28	29.2	37.0	7.8	V	394	350
855.06	-0.1	22.41	8.83	31.1	37.0	5.9	V	120	185



< Fig 5. Radiated emission result _ Digital >

7. Sample Calculations

$$\begin{aligned} \text{dB}\mu\text{V} &= 20 \text{ Log}_{10}(\mu\text{V}/\text{m}) \\ \text{dB}\mu\text{V} &= \text{dBm} + 107 \\ \mu\text{V} &= 10^{(\text{dB}\mu\text{V}/20)} \end{aligned}$$

7.1 Example 1 :

■ 20.3 MHz

Class B Limit	=	250 μV	=	48 $\text{dB}\mu\text{V}$
Reading	=	- 67.8 dBm (Calibrated level)		
Convert to $\text{dB}\mu\text{V}$	=	- 67.8 $\text{dBm} + 107$	=	39.2 $\text{dB}\mu\text{V}$
$10^{(39.2\text{dB}\mu\text{V}/20)}$	=	91.2 μV		
Margin	=	39.2 – 48	=	-8.8
	=	8.8 dB below Limit		

7.2 Example 2 :

■ 66.7 MHz

Class B Limit	=	100 $\mu\text{V}/\text{m}$	=	40.0 $\text{dB}\mu\text{V}/\text{m}$
Reading	=	- 76.0 dBm (Calibrated level)		
Convert to $\text{dB}\mu\text{V}/\text{m}$	=	- 76.0 $\text{dBm} + 107$	=	31.0 $\text{dB}\mu\text{V}/\text{m}$
Antenna Factor + Cable Loss	=	5.8 dB		
Total	=	36.8 $\text{dB}\mu\text{V}/\text{m}$		
Margin	=	36.8 – 40.0	=	-3.2
	=	3.2 dB below Limit		

8. Recommendation & conclusion

The data collected shows that the **LG Electronics Inc. 37" LCD TV/Monitor (Model No.:37LB1DA-UB)** was complies with §15.107 and 15.109 of the FCC Rules.