



FCC EVALUATION REPORT FOR CERTIFICATION

FCC Class B (Class II Permissive Change)

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 : February 3, 2006

Test Report No. : GETEC-E3-06-006

Test Site : Gumi College EMC Center

FCC ID

BEJL203WTN

APPLICANT

LG Electronics Inc.

Rule Part(s) : FCC Part 15 Subpart B

Equipment Class : Class B computing device peripheral

EUT Type : 20" LCD Monitor

Model No. : L203WTN

Trade name : LG

Class II Change(s) : Remove the D-SUB port and add the AV component & RS232C port

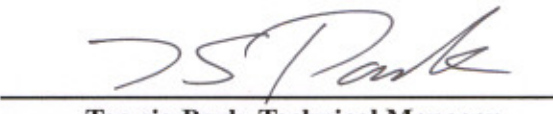
This equipment, with the Class II Permissive Change(s) listed above, has been shown to be capable of continued compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003/ Canadian 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

Product Testing & Compliance Center

Manufacturer: 642, Jinpyoung-dong, Gumi-city, Gyeongsangbuk-do, Korea
Tel No.: +82-54-470-4530

- **FCC ID** BEJL203WTN
- **EUT Type** 20" LCD Monitor
- **Model No.** L203WTN
- **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** February 1, 2006
- **Place of Test** Gumi College EMC Center
- **Test Report No.** GETEC-E3-06-006
- **Class II Change(s)** Remove the D-SUB port and add the AV component & RS232C port

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. 20" LCD Monitor (Model No.: L203WTN)**

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. 20" LCD Monitor (Model No.: L203WTN)**
FCC ID.: BEJL203WTN

Maximum Resolution(s)	1680×1050 Non-interlaced @ 60Hz(Digital)
Frequency Range(s)	H-Sync: 31.5kHz – 60.0kHz V-Sync: 56.0Hz – 75.0Hz
Test pattern	Scrolling Pattern “H” Winamp play
LCD Panel	LM201U04 (LG Philips LCD)
Cable(s)	1.8m Power cable Connected to the EUT 1.8m DVI-D cable Connected to the EUT and PC 3.0m Component cable Connected to the EUT and DVD player 1.8m PC sound input cable Connected to the EUT and PC 2.85m Headset cable Connected to the EUT

3.2 Support Equipment used

PC	COMPAQ PD1075 S/N: 7041JC8F0245 FCC ID: DoC
Video card	SUMA Geforce FX 5200 S/N: 15112363200377 FCC ID: DoC
Printer	H.P Deskjet 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: B13BBOR39I006D FCC ID: AQ6-23K15
Joystick	Microsoft X05-92626 S/N: 9262600296169 FCC ID: DoC
DVD player	PIONEER DV-525 S/N:UEYD012398LL FCC ID:-
Headset	GOWOONSORI GW-500M S/N:- FCC ID:-

See “Appendix E – Test Setup Photographs” for actual system test set-up

4. Description of tests

4.1 Conducted Emission

The Line conducted emission test facility is inside a $4 \times 8 \times 2.5$ 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.

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

And, the worst-case test 3 modes (1680*1050/60Hz, 1024*768/75Hz, 640*480/60Hz) and configuration were noted in the test report and the photographs were attached.

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

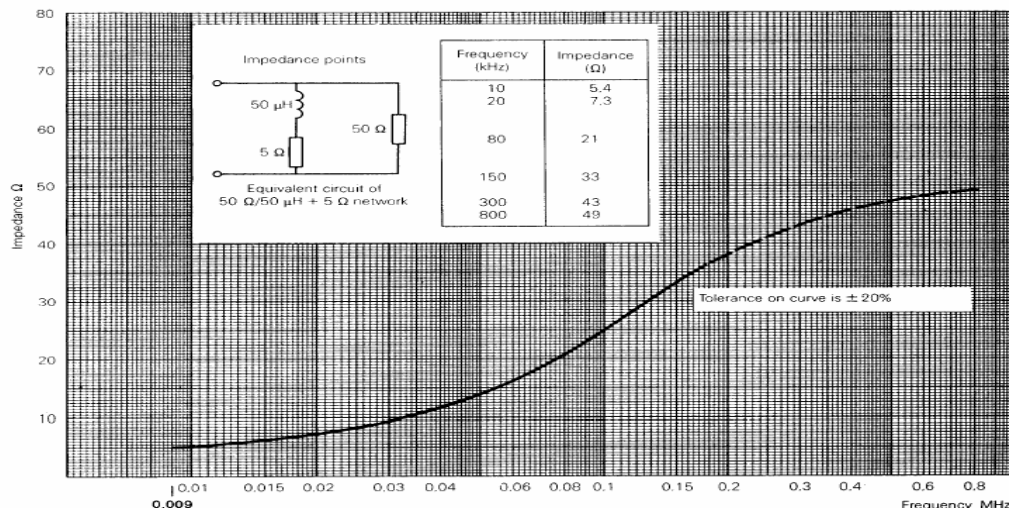


Fig 2. Impedance of LISN

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 10m-test range using bicornical antenna (R&S, HK116), log-periodic antenna (R&S, HL223) and horn antenna (Schwarzbeck, BBHA9120D)

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 mode (1680*1050/60Hz) and configuration were noted in the test report and the photographs were attached.

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

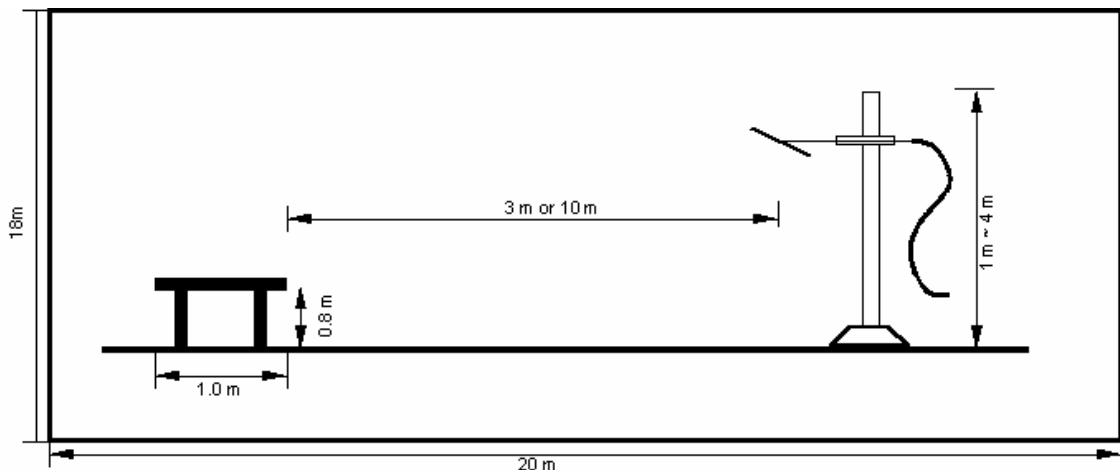


Fig 3. Dimensions of Open Site Test Area

5. Conducted Emission

5.1 Operating environment

Temperature : 23 °C
Relative humidity : 48 %

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	U-shaped		
LISN VRC : $\Gamma_l =$ 0.20		0.05	0.05
ISN VRC : $\Gamma_l =$ 0.20		-0.05	-0.05
ATT VRC(IN) : $\Gamma_g =$ 0.03			
Uncertainty limits $20\log(1 \pm \Gamma_l \Gamma_g)$			
Mismatch	U-shaped		
Receiver VRC : $\Gamma_l =$ 0.09		0.09	0.09
ATT VRC : $\Gamma_g =$ 0.11		-0.09	-0.09
Uncertainty limits $20\log(1 \pm \Gamma_l \Gamma_g)$			
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 : February 1, 2006
- Resolution bandwidth : 9kHz
- Frequency range : 0.15MHz ~ 30MHz

■. Test resolution: 1680*1050/60Hz

Frequency (MHz)	Insertion Loss	Cable Loss	Pol.	Quasi-Peak[dBuV]			Average[dBuV]			Margin[dBuV]	
				Limit	Reading	Result	Limit	Reading	Result	Quasi	Average
0.205	0.11	-0.23	N	63.41	48.8	48.68	53.41	42.2	42.08	14.72	11.32
0.275	0.11	-0.19	N	60.97	42.1	42.02	50.97	35.1	35.02	18.94	15.94
0.380	0.12	-0.13	N	58.28	32.5	32.49	48.28	32.5	32.49	25.79	15.79
0.570	0.12	-0.21	N	56.00	32.7	32.61	46.00	33.7	33.61	23.39	12.39
0.760	0.15	-0.23	H	56.00	36.5	36.42	46.00	36.5	36.42	19.58	9.58
0.855	0.14	-0.23	N	56.00	32.4	32.31	46.00	32.4	32.31	23.69	13.69
1.520	0.16	-0.28	N	56.00	30.3	30.18	46.00	30.3	30.18	25.82	15.82
1.850	0.17	-0.31	N	56.00	34.5	34.37	46.00	31.9	31.77	21.63	14.23
2.335	0.19	-0.26	N	56.00	37.7	37.63	46.00	34.9	34.83	18.37	11.17
2.810	0.21	-0.17	N	56.00	36.4	36.43	46.00	33.8	33.83	19.57	12.17
3.570	0.23	-0.14	N	56.00	39.4	39.49	46.00	36.2	36.29	16.51	9.71
6.380	0.32	-0.15	N	60.00	44.8	44.98	50.00	41.8	41.98	15.02	8.02
6.860	0.34	-0.10	N	60.00	41.9	42.13	50.00	39.1	39.33	17.87	10.67
14.320	0.58	0.10	N	60.00	34.9	35.58	50.00	32.1	32.78	24.42	17.22
17.570	0.65	0.00	N	60.00	39.9	40.55	50.00	38.3	38.95	19.45	11.05
25.820	0.74	0.10	H	60.00	34.4	35.24	50.00	32.4	33.24	24.76	16.76

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

Insertion Loss : Insertion Loss of LISN

Cable Loss : Cable Loss + Pulse Limiter Insertion loss value

◆ Test resolution: 1024*768/75Hz

Frequency (MHz)	Insertion Loss	Cable Loss	Pol.	Quasi-Peak[dBuV]			Average[dBuV]			Margin[dBuV]	
				Limit	Reading	Result	Limit	Reading	Result	Quasi	Average
0.205	0.11	-0.23	N	63.41	40.4	40.28	53.41	35.0	34.88	23.12	18.52
0.280	0.11	-0.19	N	60.82	30.4	30.33	50.82	30.4	30.33	30.49	20.49
0.380	0.12	-0.13	N	58.28	31.5	31.49	48.28	31.5	31.49	26.79	16.79
0.475	0.14	-0.16	H	56.43	35.8	35.78	46.43	34.9	34.88	20.65	11.55
0.570	0.12	-0.21	N	56.00	32.5	32.41	46.00	32.5	32.41	23.59	13.59
1.230	0.15	-0.25	N	56.00	32.1	32.00	46.00	32.5	32.40	24.00	13.60
1.805	0.17	-0.30	N	56.00	31.8	31.67	46.00	30.8	30.67	24.33	15.33
3.270	0.22	-0.14	N	56.00	34.7	34.78	46.00	34.6	34.68	21.22	11.32
4.225	0.25	-0.14	N	56.00	37.9	38.01	46.00	35.6	35.71	17.99	10.29
4.700	0.27	-0.15	N	56.00	37.9	38.02	46.00	35.6	35.72	17.98	10.28
8.115	0.36	0.00	N	60.00	39.1	39.46	50.00	36.1	36.46	20.54	13.54
17.570	0.68	0.00	H	60.00	34.2	34.88	50.00	17.7	18.38	25.12	31.62
24.950	0.71	0.05	H	60.00	33.1	33.86	50.00	31.6	32.36	26.14	17.64

*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

Frequency (MHz)	Insertion Loss	Cable Loss	Pol.	Quasi-Peak[dBuV]			Average[dBuV]			Margin[dBuV]	
				Limit	Reading	Result	Limit	Reading	Result	Quasi	Average
0.205	0.11	-0.23	N	63.41	45.7	45.58	53.41	28.5	28.38	17.82	25.02
0.750	0.13	-0.23	N	56.00	35.7	35.60	46.00	28.5	28.40	20.40	17.60
0.475	0.14	-0.16	H	56.43	33.6	33.58	46.43	33.6	33.58	22.85	12.85
0.570	0.14	-0.21	H	56.00	34.0	33.93	46.00	34.0	33.93	22.07	12.07
0.760	0.15	-0.23	H	56.00	35.4	35.32	46.00	35.4	35.32	20.68	10.68
0.950	0.15	-0.23	H	56.00	30.7	30.62	46.00	30.7	30.62	25.38	15.38
1.330	0.16	-0.26	H	56.00	31.0	30.90	46.00	31.2	31.10	25.10	14.90
2.190	0.20	-0.29	H	56.00	33.8	33.71	46.00	33.1	33.01	22.29	12.99
3.420	0.23	-0.14	H	56.00	35.2	35.29	46.00	32.5	32.59	20.71	13.41
7.450	0.35	-0.05	H	60.00	39.0	39.30	50.00	37.0	37.30	20.70	12.70
10.920	0.43	0.00	H	60.00	37.6	38.03	50.00	36.0	36.43	21.97	13.57
17.560	0.68	0.00	H	60.00	39.6	40.28	50.00	39.6	40.28	19.72	9.72
25.740	0.74	0.10	H	60.00	32.7	33.53	50.00	32.5	33.33	26.47	16.67

*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 : 1 °C
Relative humidity : 46 %

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

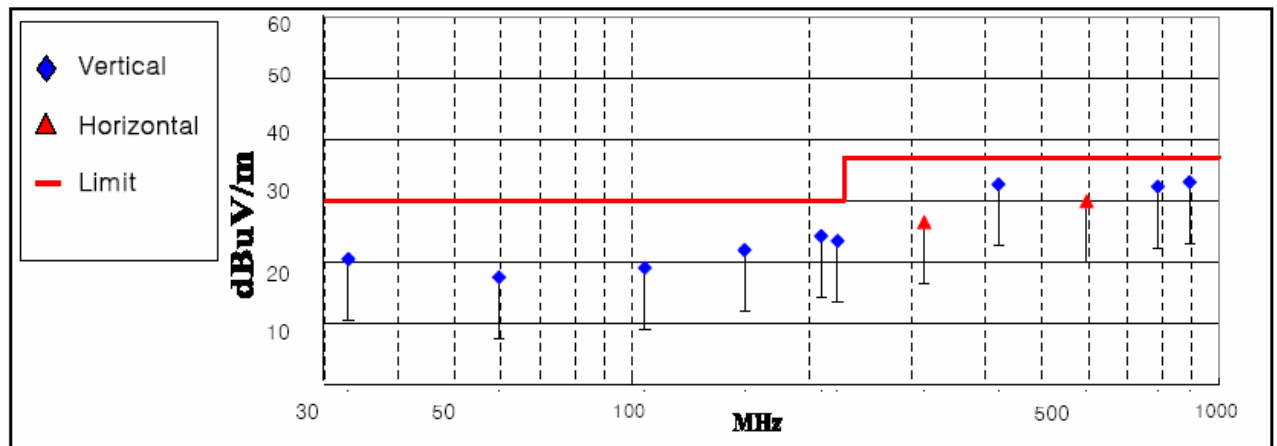
Model Number	Manufacturer	Description	Serial Number	Calibrated Date
■ - ESI	Rohde & Schwarz	EMI test receiver	830482/010	12. 2. 2005
■ - ESCS30	Rohde & Schwarz	EMI test receiver	839809/003	12. 14. 2005
■ - HK116	Rohde & Schwarz	Biconical antenna	826861/018	12. 2. 2005
■ - HL223	Rohde & Schwarz	Log-periodic antenna	829228/011	12. 2. 2005
■ - BBHA9120D	Schwarzbeck	Horn antenna	207	11. 26. 2005
■ - 87405A	Agilent	Preamplifier	MY39500777	NCR
■ - 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 : February 1, 2006
- Resolution bandwidth : 120kHz
- Frequency range : 30MHz ~ 1000MHz
- Detector mode : Quasi-peak detector mode

■. Operating Condition: 1680*1050/60Hz

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)
32.94	5.9	12.82	1.72	20.4	30.0	9.6	V	122	23
59.46	7.3	8.06	2.09	17.5	30.0	12.5	V	150	51
105.32	6.2	10.07	2.75	19.0	30.0	11.0	V	189	120
155.66	6.1	12.39	3.45	21.9	30.0	8.1	V	200	225
210.18	5.9	14.27	4.02	24.2	30.0	5.8	V	185	278
223.99	4.4	14.85	4.19	23.4	30.0	6.6	V	165	154
315.02	8.3	12.93	5.25	26.5	37.0	10.5	H	325	48
420.77	10.3	16.14	6.20	32.6	37.0	4.4	V	154	325
594.96	4.3	18.25	7.36	29.9	37.0	7.1	H	380	252
786.33	2.7	21.15	8.42	32.3	37.0	4.7	V	100	90
891.00	1.7	22.27	9.05	33.0	37.0	4.0	V	158	55



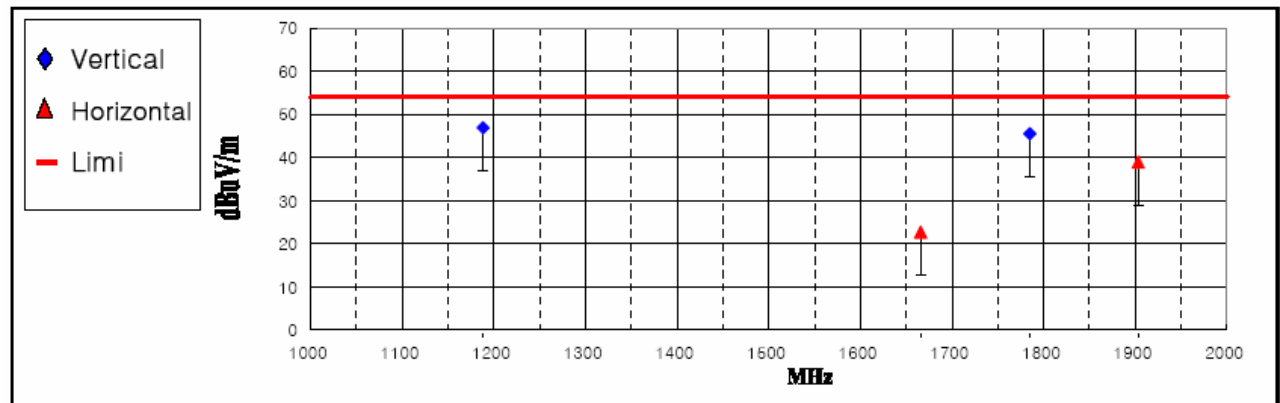
Comment: Pol: H(Horizontal), N(Vertical)

< Fig 4. Radiated emission result (30MHz ~ 1000MHz) >

- Test Date : February 1, 2006
- Resolution bandwidth : 1MHz
- Frequency range : 1000MHz ~ 2000MHz
- Measurement distance : 3m
- Detector mode : Peak detector mode / Average detector mode

■. Operating Condition: 1680*1050/60Hz

Frequency (MHz)	Measurement Level						AV Limit (dBuV/m)	Margin (dBuV/m)	Positioning System		
	Reading Value(dBuV)		AF	AMP / CL	Test Result (dBuV/m)				Pol. (H/V)	Height (cm)	Angle (deg)
	Peak	Average	(dB)	(dB)	Peak	Average					
1188.28	54.8	45.3	23.3	-21.7	56.4	46.9	54.0	7.1	V	189	345
1665.87	41.7	18.6	25.0	-20.9	45.7	22.7	54.0	31.3	H	386	185
1784.68	51.0	40.9	25.4	-20.8	55.6	45.6	54.0	8.5	V	205	120
1903.25	43.0	33.8	25.8	-20.7	48.1	39.0	54.0	15.1	H	370	224



*Comment :AMP/CL : Cable loss + AMP gain

< Fig 5. Radiated Emission (1000MHz ~ 2000MHz) >

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 dB μV
Reading	=	- 67.8 dBm(Calibrated level)		
Convert to dB μV	=	- 67.8 dBm + 107	=	39.2 dB μV
$10^{(39.2\text{dB}\mu\text{V}/20)}$	=	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 dB $\mu\text{V}/\text{m}$
Reading	=	- 76.0 dBm(Calibrated level)		
Convert to dB $\mu\text{V}/\text{m}$	=	- 76.0 dBm + 107	=	31.0 dB $\mu\text{V}/\text{m}$
Antenna Factor + Cable Loss	=	5.8 dB		
Total	=	36.8 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. 20" LCD Monitor (Model No.: L203WTN)** was complies with §15.107 and 15.109 of the FCC Rules.