

Nemko Korea Co., Ltd.

300-2, Osan-Ri, Mohyun-Myun, Yongin-City, Kyungki-Do, KOREA

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FCC EVALUATION REPORT FOR CERTIFICATION

Applicant :

LG Electronics Inc.

19-1, Cheongho-Ri, Jinwuy-Myun,

Pyungtaek-Shi, Kyunggi-Do, 451-713, Korea

Attn : Mr. Y. G. Yoon

Dates of Issue : December 20, 2005

Test Report No. : NK2FE819

Test Site : Nemko Korea Co., Ltd.

EMC site, Korea

FCC ID

Brand Name

Contact Person

BEJDT-NK**LG****LG Electronics Inc.****19-1, Cheongho-Ri, Jinwuy-Myun, Pyungtaek-Shi,****Kyunggi-Do, 451-713, Korea****Mr. Y. G. Yoon****Telephone No. : +82 31 610 5338**

Applied Standard:

Part 15 & 2

Classification :

FCC Class B Device

EUT Type:

Personal Computer

The device bearing the brand name and FCC ID specified above has been shown to comply 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.

I attest to the accuracy of data and 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 : S. H. Baek
Engineer



Reviewed By : H.H. Kim
Manager & Chief Engineer

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SCOPE

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under FCC part 15.

Responsible Party :	LG Electronics Inc.
Contact Person :	Mr. Y. G. Yoon Tel No.: +82 31 610 5338
Manufacturer :	LG Electronics Inc. 19-1, Cheongho-Ri, Jinwuy-Myun, Pyungtaek-Shi, Kyunggi-Do, 451-713, Korea
Factory :	LG Electronics Inc. 19-1, Cheongho-Ri, Jinwuy-Myun, Pyungtaek-Shi, Kyunggi-Do, 451-713, Korea

- FCC ID: BEJDT-NK
- Model: NK
- Brand Name: LG
- EUT Type: Personal Computer
- Electric Rating: 100-127Vac, 5.0A, 200-240Vac, 4.0A, 50/60Hz
- Port/Connector: Sound connector (Earphone, Microphone x 2EA, Line-in, Speaker),
USB x 6EA, PS/2 x 2EA (Keyboard, Mouse), Parallel, Serial,
Video, LAN, S/PDIF, IEEE 1394
- Classification: FCC Class B
- Applied Standard: FCC Part 15 & Part 2
- Test Procedure(s): ANSI C63.4 (2003)
- Dates of Test: December 15, 2005 to December 17, 2005
- Place of Tests: Nemko Korea Co., Ltd. EMC Site
- Test Report No.: NK2FE819

INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2003) was used in determining radiated and conducted emissions emanating from **LG Electronics Inc.**

FCC ID : **BEJDT-NK, Personal Computer.**

These measurement tests were conducted at **Nemko Korea Co., Ltd. EMC Laboratory**.

The site address is 300-2, Osan-Ri, Mohyun-Myun, Yongin-City, Kyungki-Do, KOREA

The area of Nemko Korea Corporation Ltd. EMC Test Site is located in a mountain area at 80 kilometers (48 miles) southeast and Incheon International Airport (Incheon Airport), 30 kilometers (18miles) south-southeast from central Seoul.

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 C63.4-2003.



Nemko Korea Co., Ltd.
OPEN AREA TEST SITE
300-2, Osan-Ri, Mohyun-Myun, Yongin-
City Kyungki-Do, KOREA 449-852
Tel) +82-31-322-2333
Fax) +82-31-322-2332

Fig. 1. The map above shows the Seoul in Korea vicinity area.
The map also shows Nemko Korea Corporation Ltd. EMC Lab and Incheon Airport.

TEST CONDITIONS & EUT INFORMATION

Operating During Test

The EUT was operated by the software. The EUT sent "H" pattern to monitor and the monitor displayed "H" pattern on screen. It also sent "H" pattern to printer, then the printer printed it out. It also sent and received to hard disk. The LAN were operated at download mode during internet connection.

And the DVD-ROM was operated at playback mode. This software had above all functions conduct in order.

Support Equipment

PC (EUT)	LG Electronics Inc., FCC ID: BEJDT-NK 1.5m unshielded AC power cable	S/N : DMST-051213-YYG01
Monitor	Dell Computer Corporation., Model : P1130 1.2m shielded D-sub cable 1.5m unshielded AC power cable	S/N : 5403497
PS/2 Keyboard	Samsung Electro-Mechanics Co., Ltd., Model : SEM-CI9V2 1.58 unshielded Din cable	S/N : KB008594
USB Keyboard	Silitek Yet Foundate, Model : SK-8125 1.8m shielded USB cable	S/N : SO209000145
PS/2 Mouse	HP, Model : M-S34 1.5m unshielded Din cable	S/N : N/A
Serial Mouse	ALLSPIRIT, Model : WS-V1-400 1.8m shielded D-Sub cable	S/N : B050402
USB Mouse	Logitech, Model : M-UVDEL1 1.8m shielded USB cable	S/N : LNA4003753
USB Mouse	N/A, Model : Memorex 1.5m shielded USB cable	S/N : 78-100-467
Speaker	Sound King Corp., Model : MS-691 1.2m unshielded stereo jack cable	S/N : N/A
Headset	N/A, Model : actto 1.8m unshielded stereo jack cable	S/N : N/A

Printer	HP, Model: C6429A 1.8m unshielded AC power cable	S/N : MY9BQ1805B
External HDD	VST TECHNOLOGIES, INC. Model : FW1280 1.8m shielded IEEE 1394 cable Adaptor : Alto Electronics, Model : SDP-AA18ID 1.8m unshielded DC power cable	S/N : 90943222583 S/N : N/A
Hub	3Com, Model : Dual Speed Switch 16 3.0m unshielded modular jack cable Adaptor : Ault Inc. Model : 7900-000-046-1.00 1.8m unshielded DC power cable	S/N : N/A S/N : N/A
Microphone Cable	1.2m unshielded stereo jack cable	S/N : N/A
Line Out Cable	1.2m unshielded stereo jack cable	S/N : N/A
USB Cable	1.5m shielded USB cable	S/N : N/A

EUT Information

Clock	200MHz, 133MHz, 66MHz 14MHz
Chipset(s)	CPU1 (SOCK775), U24 (ICSCA431376)
Port(s)	Sound connector (Earphone, Microphone x 2EA, Line-in, Speaker), USB x 6EA, PS/2 x 2EA (Keyboard, Mouse), Parallel, Serial, Video, LAN, S/PDIF, IEEE 1394
CPU	Intel Pentium IV, 3.6GHz
System memory	1GB (up to 4GB)
Hard disk drive	160GB (SATA Type)
Video	Sigmacom Geforce6600 LP
Slot	PCI x 3EA, PCI-E x 2EA
Product size	136(W) x 354(H) x 378(D) : mm

EUT System

Equipment	Model	Manufacturer	Serial Number
Main board	GA-8I915G-LGE	GIGABYTE	N/A
CPU	Intel Pentium IV	Intel	N/A
HDD	ST3120023AS	Seagate	4MT1C7CD
DVD-ROM	GCC-4522B	HLDS	508HJFJ374611
FDD	SFD-321B	Samsung	N/A
Video	Geforce6600LP	Sigmacom	N/A
Memory	PC2-4200U-444-12	Hynix	N/A
SMPS	SH270X1	Sungho	N/A

SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specification:

Name of Test	Paragraph No.	Result	Remark
Conducted Emission	15.107(a)	Complies	
Radiated Emission	15.109(a)	Complies	Below 1GHz
Radiated Emission	15.109(a)	Complies	Above 1GHz

RECOMMENDATION/CONCLUSION

The data collected shows that the **LG Electronics Inc.**

FCC ID : **BEJDT-NK, Personal Computer.**

The highest emission observed was at **0.53 MHz** for conducted emissions with a A.V margin of **8.1 dB**, at **166.27 MHz** for radiated emissions with a margin of **9.7 dB**.

SAMPLE CALCULATION

$$\text{dB } \mu V = 20 \log_{10} (\mu V/m)$$

$$\mu V = 10^{(\text{dB } \mu V/20)}$$

EX. 1.

@57.7 MHz

Class B limit = 100 $\mu V/m$ = 40.0 dB $\mu V/m$

Reading = 19.1 dB μV (calibrated level)

Antenna factor + Cable Loss = 10.12 dB

Total = 29.22 dB $\mu V/m$

Margin = 40.0 - 29.22 = 10.78

10.78 dB below the limit

DESCRIPTION OF TESTS

Conducted Emissions

The Line conducted emission test facility is located inside a 4 X 7 X 2.5 meter shielded enclosure.

It is manufactured by EM engineering. The shielding effectiveness of the shielded room is in accordance with MIL-STD-285 or NSA 65-6.

A 1m X 1.5m wooden table 0.8m height is placed 0.4m away from the vertical wall and 1.5m away from the side of wall of the shielded room

Rohde & Schwarz (ESH3-Z5) and Kyoritsu (KNW-407) of the 50ohm/50uH Line Impedance Stabilization Network(LISN) are bonded to the shielded room.

The EUT is powered from the Rohde & Schwarz LISN and the support equipment is powered from the Kyoritsu LISN. Power to the LISN s are filtered by high-current high insertion loss Power line filters. The purpose of filter is to attenuate ambient signal interference and this filter is also bonded to shielded enclosure. All electrical cables are shielded by tinned copper zipper tubing with inner diameter of 1/2".

If DC power device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the LISNs,

All interconnecting cables more than 1 meter were shortened by non inductive bundling (serpentine fashion) to a 1 meter length.

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 spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 150kHz to 30MHz with 20msec sweep time.

The frequency producing the maximum level was re-examined using the EMI test receiver. (Rohde & Schwarz ESCS30).

The detector function were set to CISPR quasi-peak mode & average mode.

The bandwidth of receiver was set to 9KHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission.

Each emission was maximized by; switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and of support equipment, and powering the monitor from the floor mounted outlet box and computer aux AC outlet, if applicable; which ever determined the worst case emission.

Each EME reported was calibrated using the R&S signal generator.

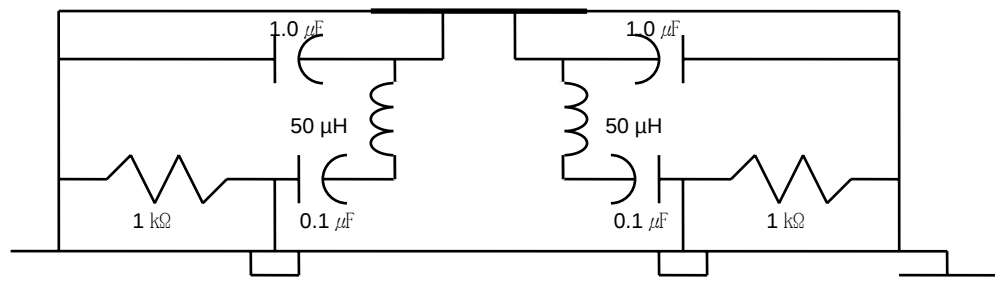


Fig. 2. LISN Schematic Diagram

DESCRIPTION OF TESTS

Radiated Emissions

Preliminary measurement were made indoors at 3 meter using broad band antennas, broadband amplifier, and spectrum analyzer 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, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna was note for each frequency found. The spectrum was scanned from 30 to 1000MHz using Biconical log Antenna(ARA, LPB-2520/A). Above 1GHz, Double Ridged Broadband Horn Antenna (Schwarzbeck, BBHA 9120 D) was used.

Final Measurements were made outdoors at 3 or 10m test range using Logbicon Super Antenna(ARA, LPB-2520/A) or Double Ridged Broadband Horn Antenna (Schwarzbeck, BBHA 9120 D). The test equipment was placed on a wooden table.

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 reexamined and investigated using EMI test receiver.(ESCS30)

The detector function were set to CISPR quasi-peak and peak mode and the bandwidth of the receiver were set to 120KHz and 1MHz depending on the frequency or type of signal. The half wave dipole antenna was tuned to the frequency found during preliminary radiated measurements.

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

The EUT, support equipment and interconnecting cables were re-arranged and manipulated to maximize each EME emission.

The turn table containing the Technology was rotated; the antenna height was varied 1 to 4meter and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by : switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and of support equipment, and powering the monitor from the floor mounted outlet box and computer aux AC outlet, if applicable; which ever determined the worst case emission.

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

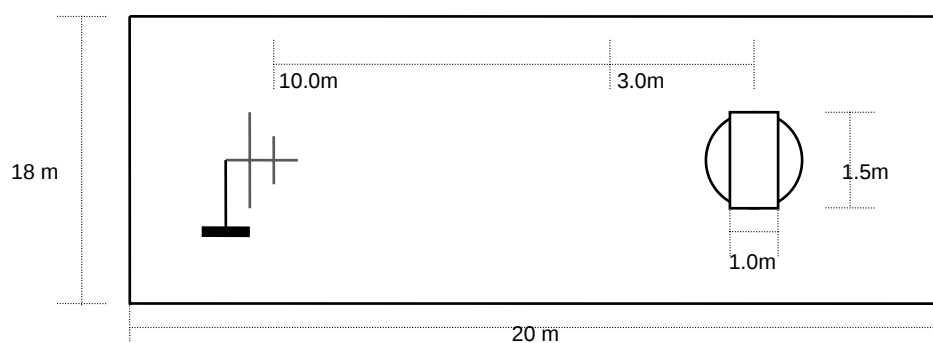


Fig. 3. Dimensions of Outdoor Test Site

TEST DATA

Conducted Emissions

FCC ID : BEJDT-NK

Frequency (MHz)	Level(dB μ V)		Line	Limit(dB μ V)		Margin(dB)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.26	44.8	39.4	N	61.4	51.4	16.6	12.0
0.33	42.4	37.1	N	59.5	49.5	17.1	12.4
0.53	40.2	37.9	L	56.0	46.0	15.8	8.1
0.73	40.0	37.6	L	56.0	46.0	16.0	8.4
5.99	40.0	38.7	L	60.0	50.0	20.0	11.3
7.75	46.2	40.5	L	60.0	50.0	13.8	9.5

*) Correction factor was included to Test Level (dB μ V)

Table 1. Line Conducted Emissions Tabulated Data

NOTES:

1. Measurements using CISPR quasi-peak mode & average mode.
2. All modes were measured and the worst -case emission (1800 x 1440, 75Hz) are reported. See attached Plots.
3. LINE : L =Line , N = Neutral
4. The limit for Class B device is on the FCC Part section 15.107(a).



Tested by : S. H. Baek

TEST DATA

Radiated Emissions

FCC ID : BEJDT-NK

● 30MHz ~ 1GHz

Frequency (MHz)	Reading (dB μ N/m)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
166.27	46.8	H	-13.0	33.8	43.5	9.7
172.02	40.3	H	-13.1	27.2	43.5	16.3
232.81	44.1	H	-12.9	31.2	46.0	14.8
250.37	42.5	H	-12.5	30.0	46.0	16.0
299.17	44.6	H	-11.3	33.3	46.0	12.7
698.50	32.1	H	-0.9	31.2	46.0	14.8

NOTES: Measurements using CISPR quasi-peak mode.

Table 2. Radiated Measurements at 3meters

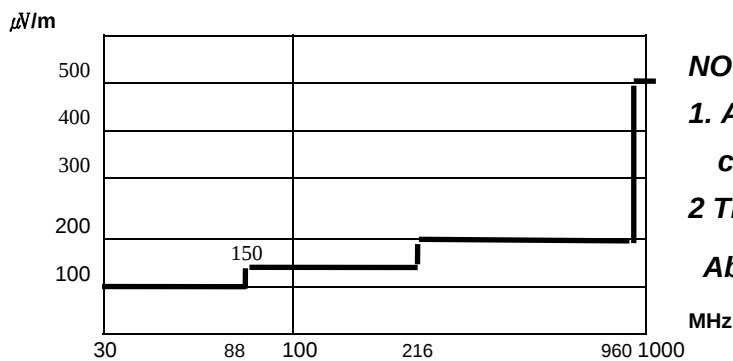


Fig. 4. Limits at 3 meters

NOTES:

1. All modes were measured and the worst-case emission (1800 x 1440, 75Hz) was reported.

2 The radiated limits are shown on Figure 4.

Above 1GHz the limit is 500 μ N/m.

NOTES:

1. *Pol. H =Horizontal V=Vertical

2. **AF+CL+Amp. = Antenna Factor + Cable Loss + Amplifier.

3. The limit for Class B device is on the FCC Part section 15.109(a).

Baek Sung-hyun

Tested by : S. H. Baek

TEST DATA

Radiated Emissions

FCC ID : BEJDT-NK

● 1GHz ~ 40GHz

Frequency (MHz)	Reading (dB μ V)		Pol* (H/V)	AF+CL+Amp (dB)**	Limit (dB μ V/m)		Final Result(dB μ V/m)	
	Peak	Average			Peak	Average	Peak	Average
1064.00	56.2	36.9	V	-6.40	74.0	54.0	49.8	30.5
1125.00	48.1	44.2	H	-5.85	74.0	54.0	42.2	38.3
1500.00	48.3	44.1	H	-4.45	74.0	54.0	43.8	39.6
1593.00	49.7	32.6	V	-4.45	74.0	54.0	45.2	28.1
2489.00	48.5	27.6	V	-0.85	74.0	54.0	47.6	26.7
2493.00	48.5	27.3	H	-0.85	74.0	54.0	47.6	26.4

NOTES : Measurements using peak mode & average mode.

Table 3. Radiated Measurements at 3meters

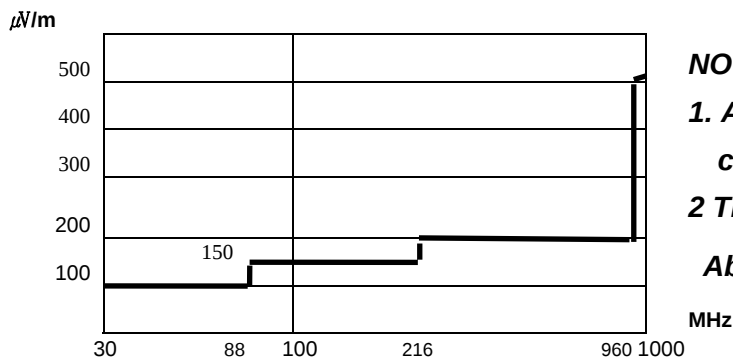


Fig. 5. Limits at 3 meters

NOTES:

1. All modes were measured and the worst-case emission (1800 x 1440, 75Hz) was reported.
- 2 The radiated limits are shown on Figure 5.

Above 1GHz the limit is 500 μ V/m.

NOTES:

1. *Pol. H =Horizontal V=Vertical
2. **AF+CL+Amp. = Antenna Factor + Cable Loss + Amplifier.
3. The limit for Class B device is on the FCC Part section 15.109(a).
4. Above 1GHz, peak detector function mode is used using a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.

Baek Sung-hun

Tested by : S. H. Baek

PLOTS OF EMISSIONS

Conducted Emission at the Mains port (Line)

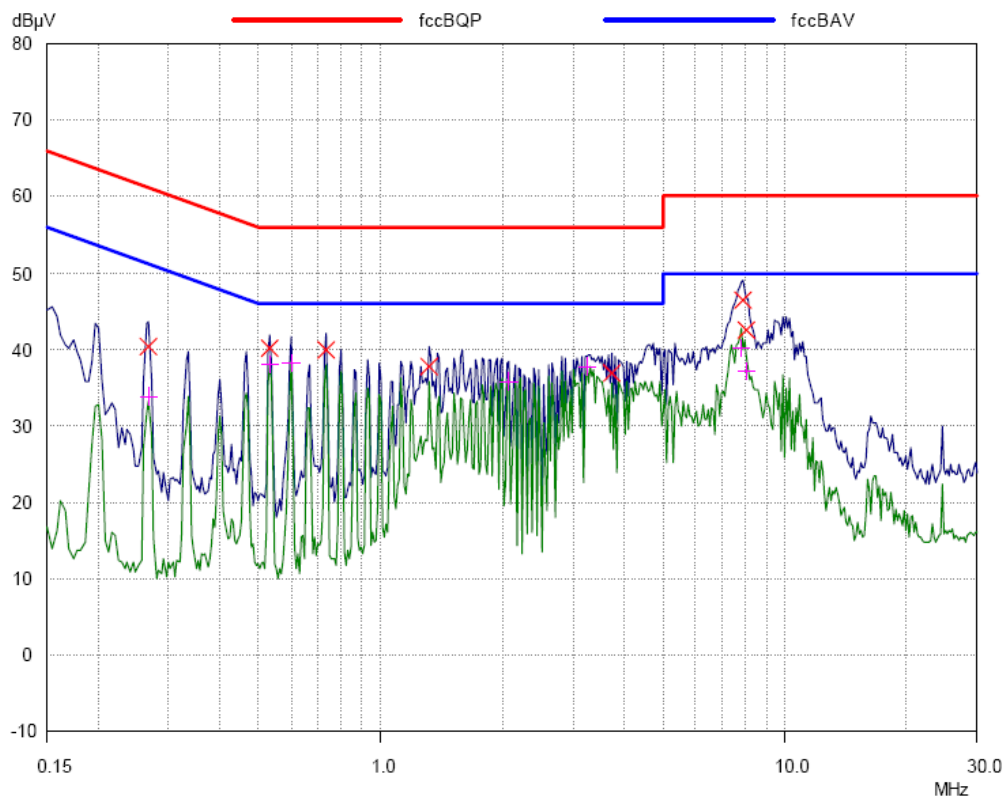
NEMKO KOREA

15 Dec 2005 15:30

Conducted Emissions

EUT: Personal Computer
 Manuf: LGElectronics Inc.
 Op Cond: AC 120V / 50Hz
 Operator: Baek
 Test Spec: Fcc Class B
 Comment: LINE: Line

Scan Settings		(1 Range)			Receiver Settings			
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	3.9063kHz	9kHz	PK+AV	20msec	20 dB	OFF	60dB
Transducer	No.	Start	Stop	Name				
	1	150kHz	30MHz	CE_LINE				
Final Measurement:		Detectors:	X QP / + AV					
		Meas Time:	1sec					
		Subranges:	8					
		Acc Margin:	25 dB					



PLOTS OF EMISSIONS

● Conducted Emission at the Mains port (Neutral)

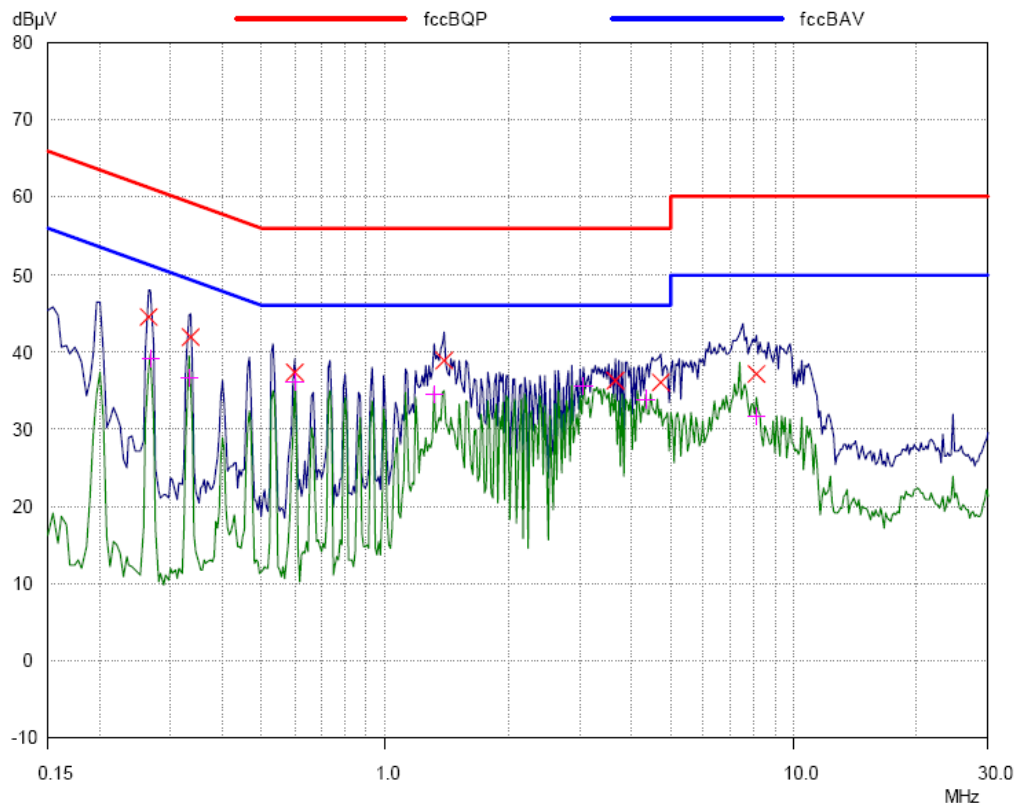
NEMKO KOREA

15 Dec 2005 15:10

Conducted Emissions

EUT: Personal Computer
 Manuf: LGElectronics Inc.
 Op Cond: AC 120V / 50Hz
 Operator: Baek
 Test Spec: Fcc Class B
 Comment: LINE: Neutral

Scan Settings		(1 Range)			Receiver Settings				
Frequencies									
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
150kHz	30MHz	3.9063kHz	9kHz	PK+AV	20msec	20 dB	OFF	60dB	
Transducer	No.	Start	Stop	Name					
	1	150kHz	30MHz	CE_LINE					
Final Measurement:		Detectors:	X QP / + AV						
		Meas Time:	1sec						
		Subranges:	8						
		Acc Margin:	25 dB						



ACCURACY OF MEASUREMENT

The Measurement Uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 with the confidence level of 95%

1. Radiation Uncertainty Calculation

Contribution	Probability Distribution	Uncertainty(+/-dB)
Antenna Factor	Normal (k=2)	± 0.5
Cable Loss	Normal (k=2)	± 0.04
Receiver Specification	Rectangular	± 2.0
Antenna directivity	Rectangular	± 1.0
Antenna Factor variation with Height		
Antenna Phase Center Variation		
Antenna Factor Frequency Interpolation		
Measurement Distance Variation		
Site Imperfections	Rectangular	± 2.0
Mismatch:Receiver VRC $r_i=0.3$ Antenna VRC $r_R=0.1(B_i)0.4(L_p)$ Uncertainty Limits $20\text{Log}(1+/-r_i r_R)$	U-Shaped	$+ 0.25 / - 0.26$
System Repeatibility	Std.deviation	± 0.05
Repeatability of EUT	-	-
Combined Standard Uncertainty	Normal	± 1.77
Expended Uncertainty U	Normal (k=2)	± 3.5

2. Conducted Uncertainty Calculation

Contribution	Probability Distribution	Uncertainty(+/-dB)
Receiver Specification	Normal (k=2)	± 2.0
LISN coupling spec.	Normal (k=2)	± 0.4
Cable and input attenuator cal.	Rectangular	± 0.4
Mismatch:Receiver VRC $r_i=0.3$ LISN vrc $r_g=0.1$ Uncertainty Limits $20\text{Log}(1+/-r_i r_R)$	U-Shaped	± 0.26
System Repeatibility	Std.deviation	± 0.68
Repeatability of EUT	-	-
Combined Standard Uncertainty	Normal	± 1.18
Expended Uncertainty U	Normal (k=2)	± 2.4

LIST OF TEST EQUIPMENT

No.	Instrument	Manufacturer	Model	Serial No.	Calibration Date	Calibration Interval
1	*Test Receiver	R & S	ESCS 30	833364/020	Aug. 17 2005	1year
2	*Test Receiver	R & S	ESCS 30	100302	Dec. 7 2005	1year
3	Amplifier	Agilent	8447F	3113A04549	Aug. 17 2005	1year
4	*Amplifier	HP	8447F	2944A03956	Aug. 17 2005	1year
5	*Amplifier	HP	8447F	2805A03351	Oct. 26 2005	1year
6	*Amplifier	HP	8449B	3008A00107	Mar. 06 2005	1year
7	*Spectrum Analyzer	HP	8566B	267A03469	Mar.16 2005	1year
8	Spectrum Analyzer	Advantest	R3265A	45060401	Dec.8 2004	1year
9	*Spectrum Analyzer	HP	8568B	1912A00573	Oct.25 2005	1year
10	*Logbicon Super Antenna	Schwarzbeck	VULB9166	1067	May. 16 2005	1year
11	*Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-474	Apr. 05 2005	1year
12	*Biconical Log Antenna	ARA	LPB-2520/A	1180	Dec. 07 2005	1year
13	Signal Generater	R & S	SMP02	833286/003	Aug. 17 2005	1year
14	*LISN	R & S	ESH3-Z5	833874/006	Oct. 25 2005	1year
15	*LISN	Kyoritsu	KNW-407	8-1034-10	Mar. 22 2005	1year
16	LISN	Kyoritsu	KNW-408	8-1058-2	Dec. 09 2004	1year
17	*Injection Probe	FCC	NEM-32	411	Apr. 28 2005	1year
18	*Position Controller	DAEIL EMC	N/A	N/A	N/A	N/A
19	*Turn Table	DAEIL EMC	N/A	N/A	N/A	N/A
20	*Antenna Mast	DAEIL EMC	N/A	N/A	N/A	N/A
21	*Anechoic Chamber	EM Eng.	N/A	N/A	N/A	N/A
22	*Shielded Room	EM Eng.	N/A	N/A	N/A	N/A
23	*Position Controller	Seo-Young EMC	N/A	N/A	N/A	N/A
24	*Turn Table	Seo-Young EMC	N/A	N/A	N/A	N/A
25	*Antenna Mast	Seo-Young EMC	N/A	N/A	N/A	N/A
26	*Anechoic Chamber	Seo-Young EMC	N/A	N/A	N/A	N/A
27	*Shielded Room	Seo-Young EMC	N/A	N/A	N/A	N/A

*) Test equipment used during the test

APPENDIX D – BLOCK DIAGRAM

APPENDIX E – USER’S MANUAL

APPENDIX F – SCHEMATIC DIAGRAM
