

Nemko Korea Co., Ltd.

300-2, Osan-Ri, Mohyun-Myeon, Cheoin-Gu, Yongin-City, Gyeonggi-Do, KOREA

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FCC EVALUATION REPORT FOR CERTIFICATION**Applicant :**

D&T Inc.

Dates of Issue : July 16, 2008

Daedeok Valley, 59-9, Jang Dong, Yuseong Gu,
Daejeon, 305-343 Korea

Test Report No. : NK08E513

Attn : Mr. W. W. Lee

Test Site : Nemko Korea Co., Ltd.

EMC site, Korea

FCC ID

THCFS-S5201C

Brand Name

TANDBERG

Contact Person

D&T Inc.**Daedeok Valley, 59-9, Jang Dong, Yuseong Gu,
Daejeon, 305-343 Korea****Mr. W. W. Lee****Telephone No. : + 82 42 360 0820**

Applied Standard: Part 15 & 2
Classification : FCC Class B Device
EUT Type: 52" LCD Monitor

The device bearing the brand name and model 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 : J. R. Choi
Engineer



Reviewed By : D.H. Ryu
Manager & Chief Engineer

D&T Inc.**Page 1 of 39****FCC ID : THCFS-S5201C**

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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 :

D&T Inc.

Contact Person :

Mr. W. W. Lee

Tel No.: + 82 42 360 0820

Manufacturer :

D&T Inc.

Daedeok Valley, 59-9, Jang Dong, Yuseong Gu,
Daejeon, 305-343 Korea

Factory :

D&T Inc.

Daedeok Valley, 59-9, Jang Dong, Yuseong Gu,
Daejeon, 305-343 Korea

- FCC ID: THCF-S5201C
- Model: FS-S5201C
- EUT Type: 52" LCD Monitor
- Electric Rating: a.c. 100-240 V, 50-60 Hz, 5 A (MAX)
- Test Voltage: a.c. 120 V, 60 Hz
- Port/Connector: HDMI, Analog
- Classification: FCC Class B
- Applied Standard: FCC Part 15 & Part 2
- Test Procedure(s): ANSI C63.4 (2003)
- Dates of Test: June 16, 2008 to June 20, 2008
- Place of Tests: Nemko Korea Co., Ltd. EMC Site
- Test Report No.: NK08E513

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 **D&T Inc.**

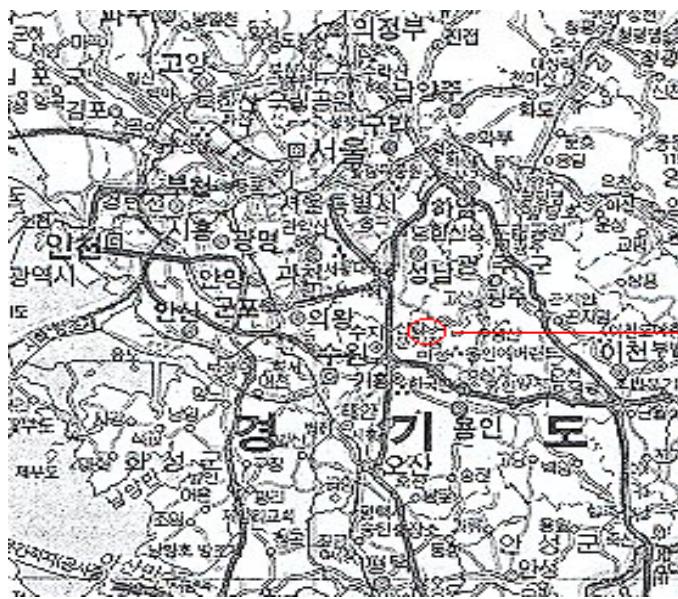
FCC ID : **THCFS-S5201C, 52" LCD Monitor.**

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

The site address is 300-2, Osan-Ri, Mohyun-Myeon, Cheoin-Gu, Yongin-City, Gyeonggi-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 on 2003.



Nemko Korea Co., Ltd.
OPEN AREA TEST SITE
300-2, Osan-Ri, Mohyun-Myeon,
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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 connected to the PC and it displayed continuously an "H" pattern on the screen. The EUT was set to 1920 x 1080 video resolution, with 60 Hz vertical refresh rate.

Support Equipment

52" LCD Monitor (EUT)	D&T Inc. FCC ID : THCF-S5201C 1.8 m shielded HDMI cable 1.5 m shielded D-Sub cable 1.8 m unshielded AC power cable	S/N: N/A
PC	Dell ASIA PACIFIC SDN. FCC DOC (Model) : DMC 1.8 m unshielded AC power cable	S/N: 2D94D1S
Keyboard	Samsung Electro-Mechanics Co., Ltd. FCC DOC (Model) : SEM-DT35US 1.5 m shielded Din cable	S/N: 9181636
PS/2 Mouse	CHIC TECHNOLOGY CORP. FCC DOC (Model) : SMOP5000WX 1.5 m unshielded Din cable	S/N: 3110042811
Serial Mouse	ALL SPIRIT CO., LTD. FCC DOC (Model) : WS-V1-400 1.5 m unshielded D-Sub cable	S/N: B050402
Printer	HP FCC DOC (Model) : C6429A 1.8 m shielded parallel cable 1.8 m unshielded AC power cable	S/N: N/A

EUT Information

Clock	27.000 MHz(Y1), 28.322 MHz(Y2), 192.37 MHz (DDR)
Chipset(s)	CN2(FW20034-24), CN16(SMW200-06P), U4(24LC21A)
LCD Panel Type	A-si TFT Active matrix
Screen size	106.7 cm (Diagonal)
Maximum Resolution	1920 x 1080 @ 60 Hz
Pixel pitch	0.6 (H) mm x 0.6 (V) mm
Display colors	16.7 M (RGB 8-bit data)
Contrast Ratio(Typ.)	1700:1
Viewing Angle(Typ.)	88/88/88/88
Response Time(Typ.)	8 ms
Luminance(Typ.)	600 cd/m2
Synchronization	Horizontal Frequency : 70 kHz
	Vertical Frequency : 85 kHz
Power Consumption	Maximum : 500 W
Port(s)	HDMI, Analog
Size and weight	1206 x 170 x 926.5 / 68 kg

EUT System

Equipment	Model	Manufacturer	Serial Number
LCD Panel	LTI520HB01	Samsung	8H8D04LF0F
AD Board	LB506 Main Board R03	D&T Inc.	N/A
AC Divide Board	AC Divide Board R03A	D&T Inc.	N/A
IO Board	LB506 IO Board R03	D&T Inc.	N/A
SMPS Board (2 EA)	0627D04349	Lishin International Enterprise Corp.	N/A

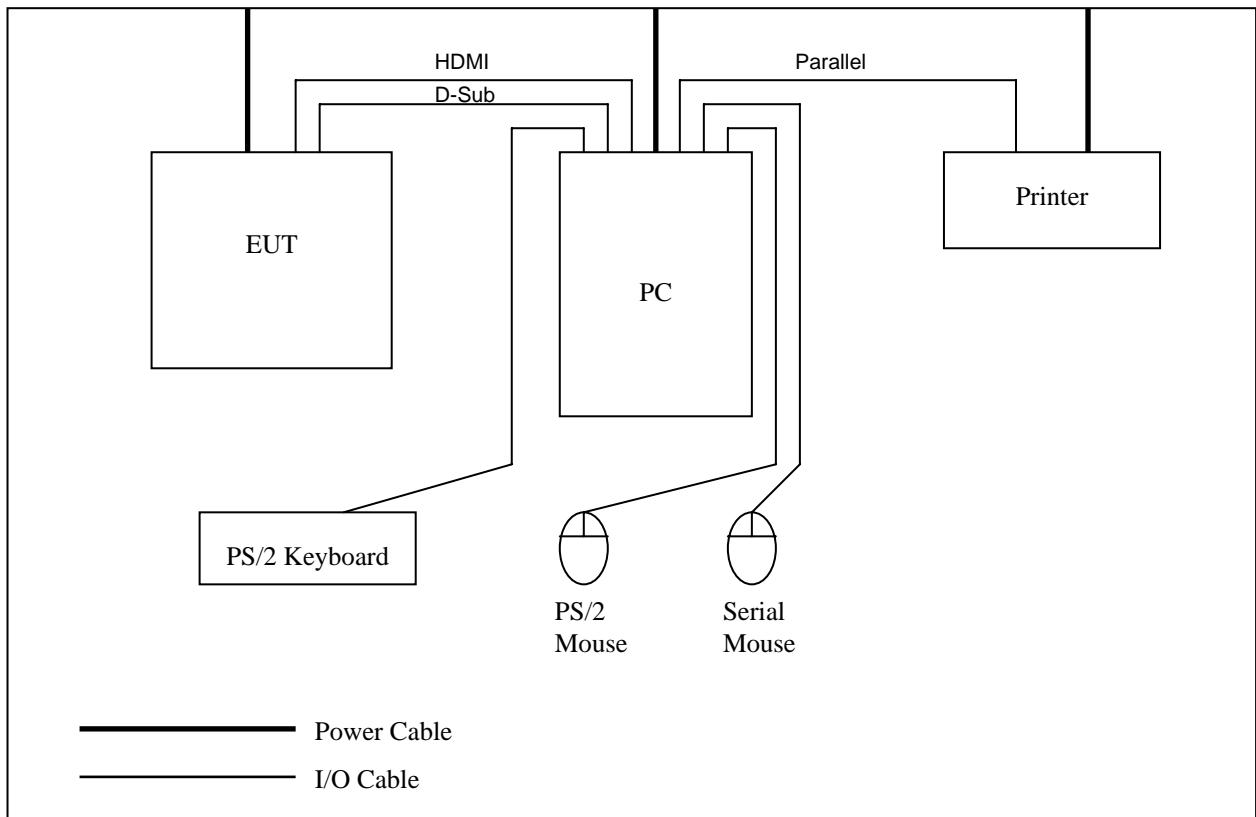
Description of Test Modes

The EUT was pre-tested under the following resolutions mode:

1. 800 X 600 (60 Hz / 37 kHz) : Clock 35.5 MHz
2. 1280 X 720 (60 Hz / 45 kHz) : Clock 74.25 MHz
3. 1366 X 768 (60 Hz / 48.3 kHz) : Clock 87.75 MHz
4. 1680 X 1050 (60 Hz / 64.7 kHz) : Clock 119.125 MHz
5. 1920 X 1080 (60 Hz / 76.5 kHz) : Clock 148.5 MHz

The worst emission level was found when the EUT was tested under 1920 x 1080 resolution, therefore, the test data of this mode was recorded in the report.

Setup Drawing



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 1 GHz
Radiated Emission	15.109(a)	Complies	Above 1 GHz

RECOMMENDATION/CONCLUSION

The data collected shows that the **D&T Inc.**

FCC ID : **THCFS-S5201C, 52" LCD Monitor.**

The highest emission observed was at **0.27 MHz** for conducted emissions with a A.V margin of **6.6 dB**, at **594.00 MHz** for radiated emissions with a margin of **3.9 dB**.

SAMPLE CALCULATION

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

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

EX. 1.

@57.7 MHz

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

Reading = 19.1 dB μV (calibrated level)

Antenna factor + Cable Loss = 10.12 dB

Total = 29.22 dB $\mu\text{V}/\text{m}$

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 m 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 1 m X 1.5 m wooden table 0.8 m height is placed 0.4 m away from the vertical wall and 0.5 m away from the side of wall of the shielded room

Rohde & Schwarz (ESH3-Z5) and Kyoritsu (KNW-407) of the 50 ohm / 50 uH 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 m were shortened by non inductive bundling (serpentine fashion) to a 1 m 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 150 kHz to 30 MHz with 20 ms 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 9 kHz. 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.

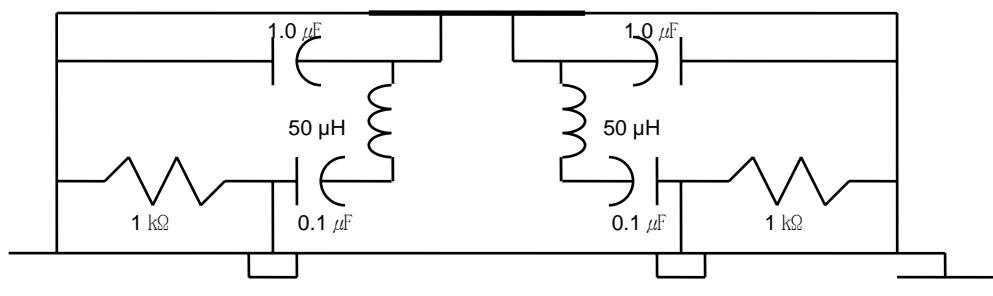


Fig. 2. LISN Schematic Diagram

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 1000 MHz using Biconical log Antenna(ARA, LPB-2520/A). Above 1 GHz, Double Ridged Broadband Horn Antenna (SCHWARTZBECK, BBHA9120D) was used.

Final Measurements were made outdoors at 3 m or 10 m test range using Trilog-Broadband Antenna (Shwarzbeck, VULB9168) or Double Ridged Broadband Horn Antenna (SCHWARTZBECK, BBHA9120D). 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 120 kHz and 1 MHz 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 0.8 m high non- metallic 1.0 X 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 4 meter 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.

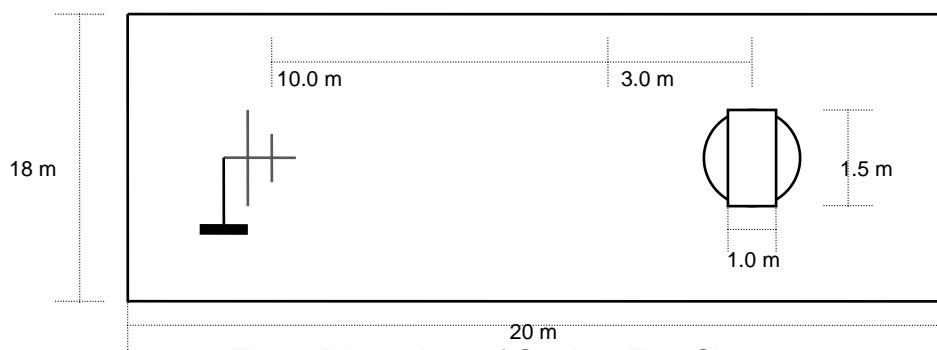


Fig. 3. Dimensions of Outdoor Test Site

TEST DATA

Conducted Emissions

FCC ID : THCFCS-S5201C

► HDMI mode

Frequency (MHz)	Level(dB μ V)		Line	Limit(dB μ V)		Margin(dB)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.27	48.2	44.4	L	61.1	51.1	12.9	6.7
3.76	40.6	35.8	L	56.0	46.0	15.4	10.2
4.49	41.3	37.0	N	56.0	46.0	14.7	9.0
6.13	42.6	37.8	N	60.0	50.0	17.4	12.2
18.31	44.6	34.4	N	60.0	50.0	15.4	15.6
29.99	42.6	31.1	N	60.0	50.0	17.4	18.9

Table 1. Line Conducted Emissions Tabulated Data

► D-Sub mode

Frequency (MHz)	Level(dB μ V)		Line	Limit(dB μ V)		Margin(dB)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.27	48.2	44.5	L	61.1	51.1	12.9	6.6
1.58	38.9	30.6	L	56.0	46.0	17.1	15.4
3.44	39.4	32.9	L	56.0	46.0	16.6	13.1
5.48	42.0	37.6	N	60.0	50.0	18.0	12.4
18.52	44.9	34.8	N	60.0	50.0	15.1	15.2
29.99	42.0	30.5	L	60.0	50.0	18.0	19.5

Table 2. Line Conducted Emissions Tabulated Data

NOTES:

1. Measurements using CISPR quasi-peak mode & average mode.
2. All modes of operation were investigated and the worst -case emission 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).



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D&T Inc.

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TEST DATA

Radiated Emissions

FCC ID : THCF-S5201C

► HDMI mode (30 MHz ~ 1 GHz)

Frequency (MHz)	Reading (dB μ V)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB μ N/m)	Limit (dB μ V/m)	Margin (dB)
63.32	44.4	V	-16.5	27.9	40.0	12.1
76.18	31.2	V	-6.6	24.6	40.0	15.4
147.86	27.4	V	-1.2	26.2	43.5	17.3
594.00	42.5	H	-0.4	42.1	46.0	3.9
661.50	27.1	H	3.8	30.9	46.0	15.1
743.97	30.3	V	3.8	34.1	46.0	11.9

Table 2. Radiated Measurements at 3 meters (1920 x 1080, 60 Hz)

► D-Sub mode (30 MHz ~ 1 GHz)

Frequency (MHz)	Reading (dB μ V)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB μ N/m)	Limit (dB μ V/m)	Margin (dB)
63.32	44.2	V	-16.5	27.7	40.0	12.3
74.50	37.8	V	-6.6	31.2	40.0	8.8
149.18	27.0	V	-1.2	25.8	43.5	17.7
223.02	30.7	V	-0.4	30.3	46.0	15.7
596.53	31.1	V	3.8	34.9	46.0	11.1
739.36	27.3	H	3.8	31.1	46.0	14.9

Table 2. Radiated Measurements at 3 meters (1920 x 1080, 60 Hz)

► HDMI mode (1 GHz ~ 2 GHz)

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
1040.00	61.2	51.2	V	-6.61	74.0	54.0	54.6	44.6
1128.00	56.1	***)	H	-6.44	74.0	54.0	49.7	-
1188.00	60.6	46.9	H	-6.31	74.0	54.0	54.3	40.6
1287.00	55.4	***)	V	-5.93	74.0	54.0	49.5	-
1337.00	59.4	39.8	V	-5.71	74.0	54.0	53.7	34.1
1403.00	54.4	***)	V	-5.41	74.0	54.0	49.0	-

NOTES : Measurements using peak mode & average mode.

Table 2. Radiated Measurements at 3 meters (1920 x 1080, 60 Hz)

► D-Sub mode (1 GHz ~ 2 GHz)

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
1035.00	61.3	35.7	V	-6.64	74.0	54.0	54.7	29.1
1082.00	51.6	***)	V	-6.53	74.0	54.0	45.1	-
1165.00	52.0	***)	V	-6.36	74.0	54.0	45.6	-
1198.00	51.3	***)	V	-6.29	74.0	54.0	45.0	-
1332.00	49.5	***)	V	-5.71	74.0	54.0	43.8	-
1600.00	48.6	***)	H	-5.23	74.0	54.0	43.4	-

NOTES : Measurements using peak mode & average mode.

Table 2. Radiated Measurements at 3 meters (1920 x 1080, 60 Hz)

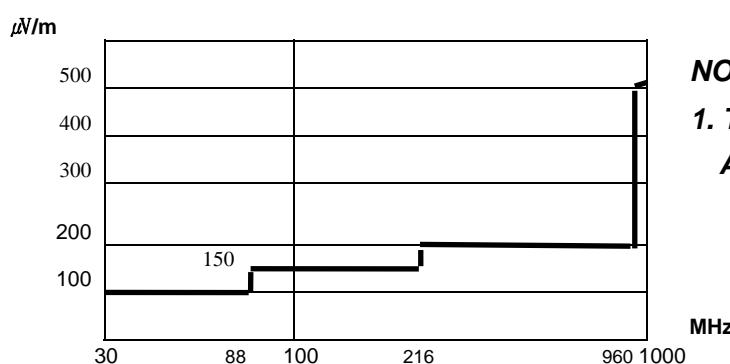


Fig. 5. Limits at 3 meters

NOTES:

1. The radiated limits are shown on Figure 5.
Above 1 GHz the limit is 500 μ V/m.

NOTES:

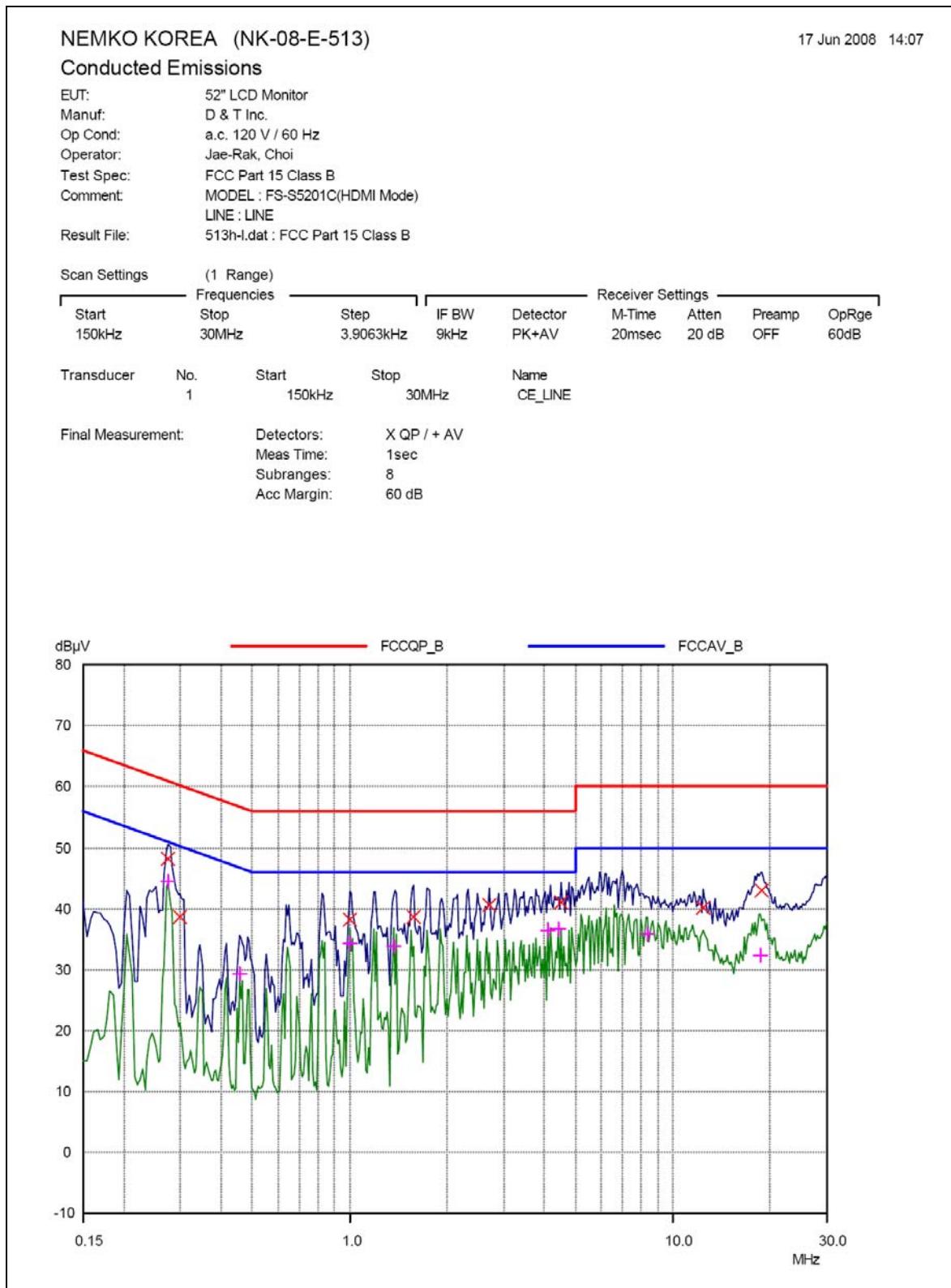
1. *Pol. H=Horizontal V=Vertical
 2. **AF+CL+Amp. = Antenna Factor + Cable Loss + Amplifier.
 3. *** average limit is met when using a peak detector receiver, the EUT was deemed to meet both limits and measurement with the average detector receiver is unnecessary.
 4. The limit for Class B device is on the FCC Part section 15.109(a).
 5. All modes of operations were invested and the worst -case emission was reported.
 6. Above 1 GHz, peak detector function mode is used using a resolution bandwidth of 1 MHz and a video bandwidth of 1 MHz, average detector function mode is used using a resolution bandwidth of 1 MHz and a video bandwidth of 10 Hz.
- Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.**



Tested by : **J. R. Choi****D&T Inc.****FCC ID : THCF-S5201C****Page 14 of 39**

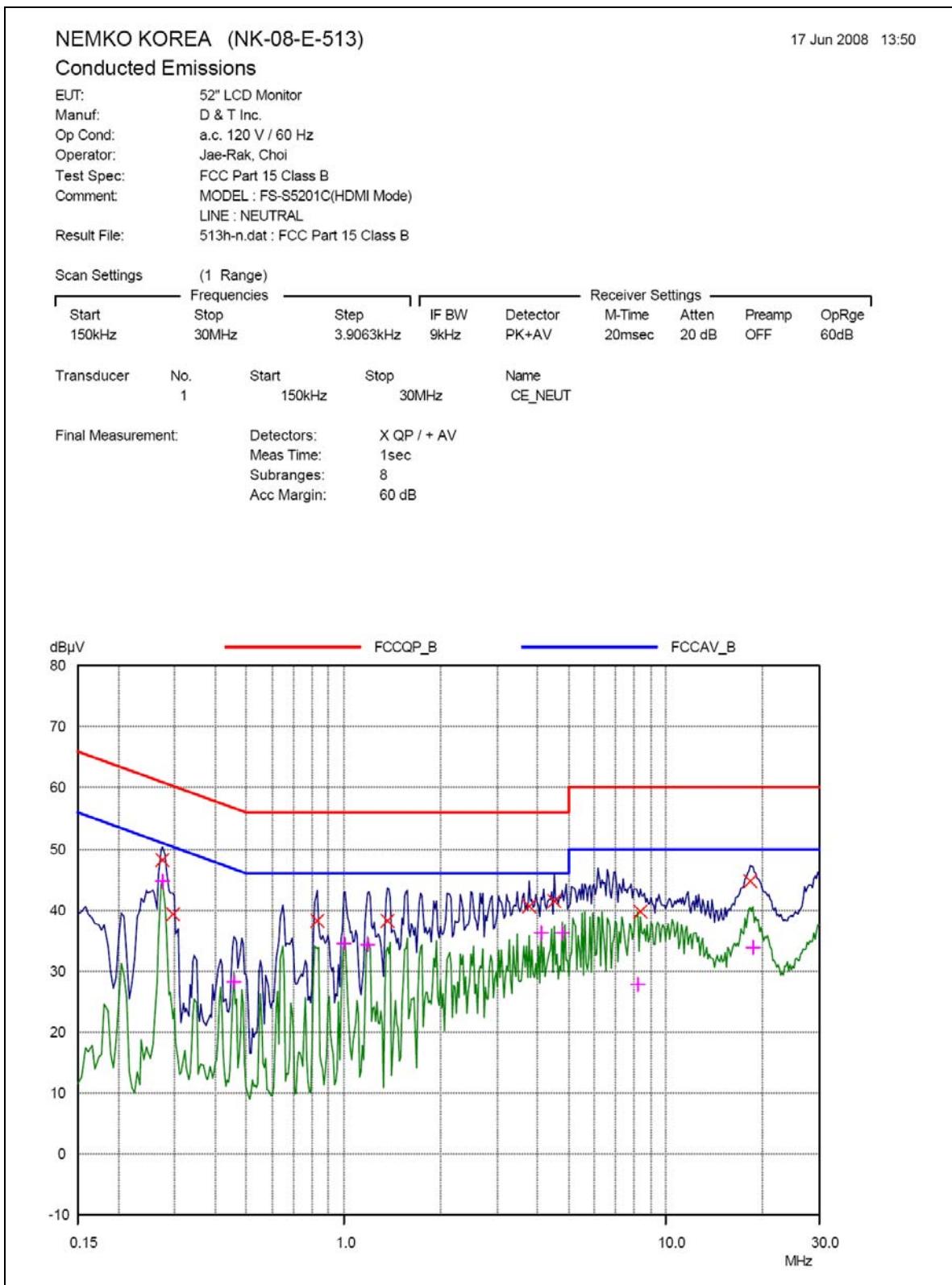
PLOTS OF EMISSIONS

- **Conducted Emission at the Mains port (HDMI mode, Line)**



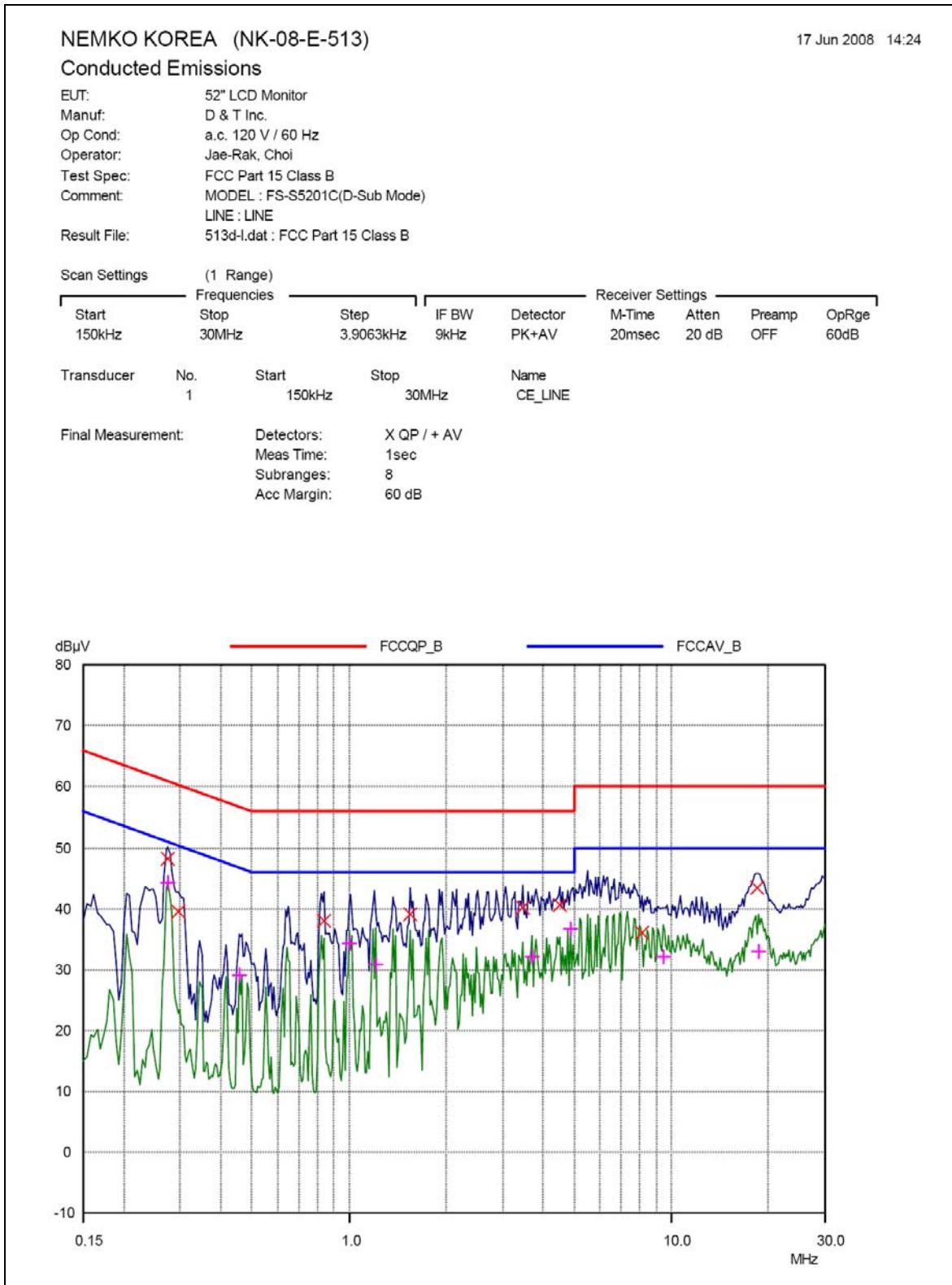
PLOTS OF EMISSIONS

- ***Conducted Emission at the Mains port (HDMI mode, Neutral)***



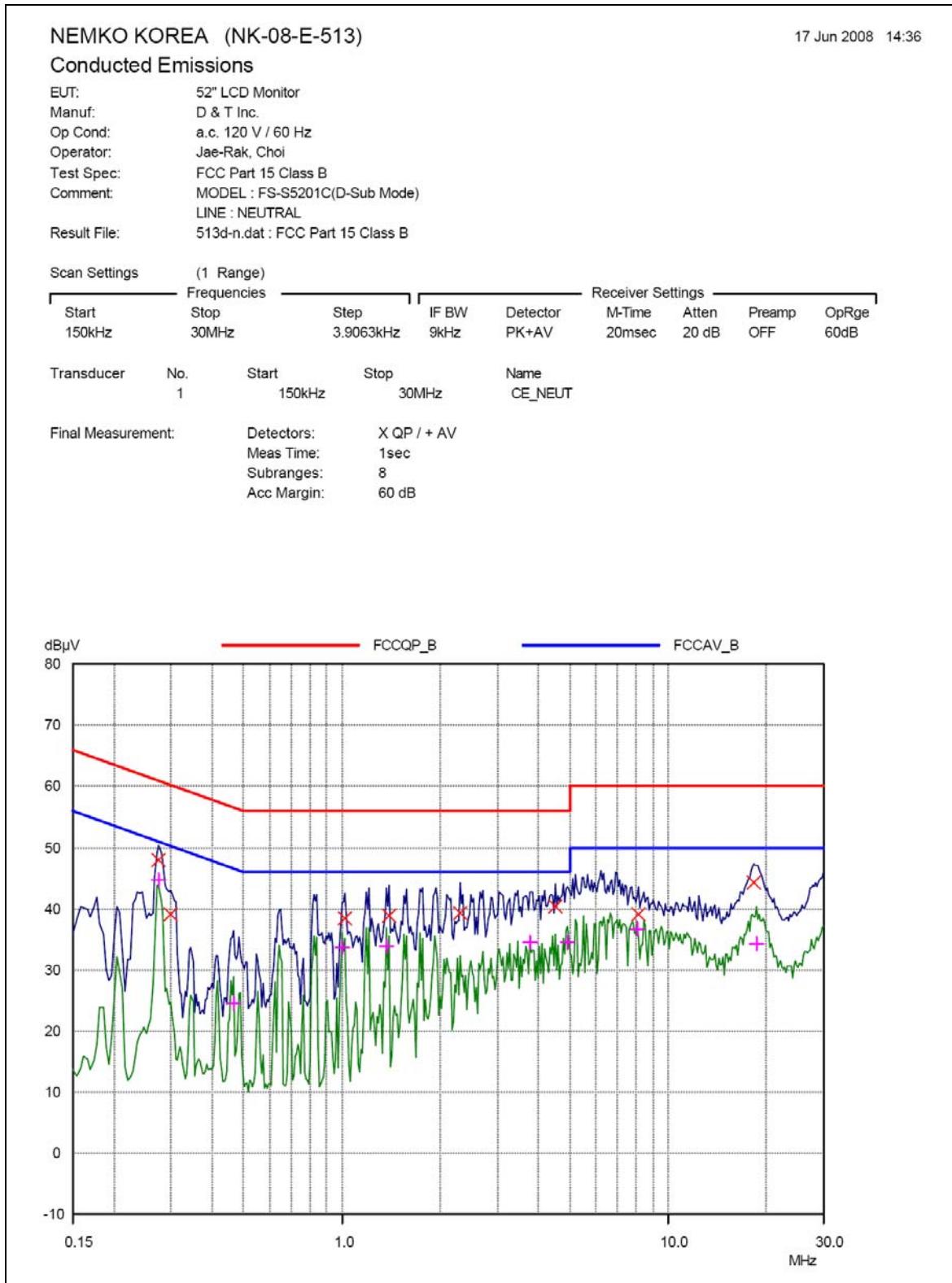
PLOTS OF EMISSIONS

- **Conducted Emission at the Mains port (D-Sub mode, Line)**



PLOTS OF EMISSIONS

- ***Conducted Emission at the Mains port (D-Sub mode, Neutral)***



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		
Antenna Factor variation with Height		
Antenna Phase Center Variation	Rectangular	± 1.0
Antenna Factor Frequency Interpolation		
Measurement Distance Variation		
Site Imperfections	Rectangular	± 2.0
Mismatch: Receiver VRC $r_i=0.3$		
Antenna VRC $r_R=0.1(B_i)0.4(L_p)$	U-Shaped	$+ 0.25 / - 0.26$
Uncertainty Limits $20\log(1+/-r_i r_R)$		
System Repeatability	Std.deviation	± 0.05
Repeatability of EUT	-	-
Combined Standard Uncertainty	Normal	± 1.77
Expendited 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 $r_g=0.1$	U-Shaped	± 0.26
Uncertainty Limits $20\log(1+/-r_i r_R)$		
System Repeatability	Std.deviation	± 0.68
Repeatability of EUT	-	-
Combined Standard Uncertainty	Normal	± 1.18
Expendited 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	Apr. 01 2008	1year
2	*Test Receiver	R & S	ESCS 30	100302	Dec. 03 2007	1year
3	*Amplifier	HP	8447F	2805A03427	Apr. 07 2008	1year
4	Amplifier	HP	8447F	2805A03351	Oct. 23 2007	1year
5	*Amplifier	HP	8447F	2805A03406	Apr. 17 2008	1year
6	*Pre Amplifier	HP	8449B	3008A00107	Feb. 27 2008	1year
7	*Spectrum Analyzer	Advantest	R3265A	45060401	Dec. 04 2007	1year
8	*Spectrum Analyzer	Agilent	E4440A	MY44022567	Dec. 04, 2007	1year
9	Spectrum Analyzer	HP	8566B	2607A03469	Feb. 27 2008	1year
10	Loop Antenna	EMCO	EMCO/6502	8911-2436	Dec. 13 2007	1year
11	Biconical Log Antenna	ARA	LPB-2520/A	1180	Apr. 21 2008	1year
12	*Biconical Log Antenna	ARA	LPB-2520/A	1209	Dec. 31 2007	1year
13	*Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-257	Apr. 21 2008	1year
14	*Double Ridged Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-474	June. 13 2008	1year
15	Signal Generator	R & S	SMP02	833286/003	Aug. 07 2008	1year
16	*LISN	R & S	ESH3-Z5	833874/006	Oct. 23 2007	1year
17	*LISN	Kyoritsu	KNW-407	8-1034-10	Feb. 27 2008	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
