

Application for FCC Certificate
On Behalf of
LG Electronics U.S.A Inc.

LCD Monitor

Model No.: L1954SMS

Serial No.: E07042711

FCC ID : BEJL1954SMS

Prepared For : LG Electronics U.S.A Inc.
2000 Millbrook Dr.Lincolnshire,
IL 60069 United States

Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F07017
Date of Test : Apr 28, 2007
Date of Report : May 10, 2007

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TEST REPORT FOR FCC CERTIFICATE

Applicant : LG Electronics U.S.A Inc.
Manufacturer : LG Electronics Nanjing Display Co., Ltd..
EUT Description : LCD Monitor
(A) Model No. : L1954SMS
(B) Serial No. : E07042711
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B 2006.10
AND ANSI C63.4-2003*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B (Class B) and ICES-003, Issue 4 February 2004 (CISPR 22:2002) limits both radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: L1954SMS; S/N: E07042711) which was tested in 3m anechoic chamber on Apr 28, 2007 is technically compliance with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test :	<u>Apr 28, 2007</u>
Prepared By:	<u>Zeno Gu 07.05.15</u> ZENO GU / Assistant
Reviewer:	<u>Sammy Chen 2007.05.15</u> SAMMY CHEN / Deputy Assistant Manager
 For and on behalf of Audix Technology (Shanghai) Co., Ltd.	
Approved Signatory:	<u>Ian Chien 2007.05.15</u> Authorized Signature EMC IAN CHIEN / Assistant Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Disturbance At main terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B 2006.10 AND ANSI C63.4-2003	Pass	15.107(a) Class B
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B 2006.10 AND ANSI C63.4-2003	Pass	15.109(a) Class B

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description	:	LCD Monitor
Type of EUT	:	☒ Production ☐ Pre-product ☐ Pro-type
Model No.	:	L1954SMS
Serial No.	:	E07042711
Applicant	:	LG Electronics U.S.A Inc. 2000 Millbrook Dr.Lincolnshire, IL 60069 United States
Manufacturer	:	LG Electronics Nanjing Display Co., Ltd. No.346, Yao Xin Road, Economic&Technical Development Zone, Nanjing, China
LCD Panel	:	Manufacturer: LG. Philips LCD M/N : LM190E08(TL)(L1)
D-Sub Cable	:	Shielded, Detachable, 1.9m, with two cores
Audio Cable	:	Unshielded, Detachable, 1.5m with one core
Power Cord	:	Unshielded, Detachable, 1.8m

Remark:

The EUT is a LCD Monitor which input/output ports as follows:

Back View:

- | | |
|--------------------------|-------------------------|
| (1) One D-Sub Input Port | Connected with PC |
| (2) AC In Port | Connected with Power |
| (3) Audio In Port | Connected with PC |
| (4) Earphone Port | Connected with Earphone |

2.2 Supported Simulators

2.2.1 PC

Manufacturer	:	HP
Model Number	:	dx6120MT
Serial Number	:	CNG53004J2
Power Cable	:	Unshielded, Detachable ,1.8m
Certificate	:	FCC DoC; CE/EMC; VCCI; CTICK; UL BSMI (R33001) 3C (A000111) MIC (E-A011-04-2659(B)

2.2.2 Keyboard

Manufacturer : Microsoft
Model Number : RT2300
Serial Number : 7668200662248
Data Cable : Unshielded, Detachable ,1.8m
Certificate : CE/EMC, FCC DoC, VCCI, MIC, C-Tick,
BSMI

2.2.3 Mouse

Manufacturer : Microsoft
Model Number : RT2300
Serial Number : 6965712071551
Data Cable : Unshielded ,Undetachable, 1.85m.
Certificate : FCC DoC, VCCI, CE/EMC, MIC, GS

2.2.4 Printer

Manufacturer : HP
Model Number : C3990A
Serial Number : JPZX020487
Data Cable : Unshielded, Detachable, 1.5m
Certificate : GS, CE/EMC, C-Tick, FCC DoC

2.2.5 Modem

Manufacturer : Aceex
Model Number : 1414
Serial Number : 980034386
Data Cable : Unshielded, Detachable, 1.8m
Certificate : FCC DoC, CE/EMC

2.2.6 Earphone

Manufacturer : Feidie
Model Number : SD-747

2.3 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on
July 26, 2006 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai, China 200233

NVLAP Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 1.84dB
Radiated Emission Expanded Uncertainty : U = 2.96dB

3 CONDUCTED EMISSION TEST

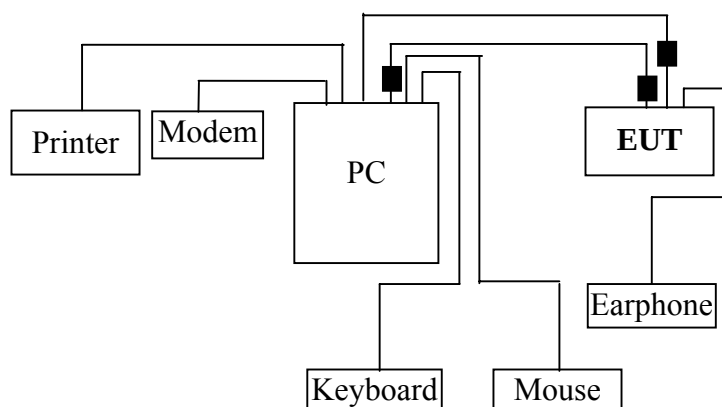
3.1 Test Equipment

The following test equipment are used during the conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESHS10	830223/007	Apr 08, 2007	Apr 08, 2008
2.	Line Impedance Stabilization Network (LISN#1)	Kyoritsu	KNW-407	8-1280-5	Apr 06, 2007	Apr 06, 2008
3.	Line Impedance Stabilization Network (LISN#2)	Kyoritsu	KNW-407	8-1280-4	Apr 06, 2007	Apr 06, 2008
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Mar 18, 2006	Sep 18, 2007
5.	Software	Audix	E3	SET00200 9804M592	--	--

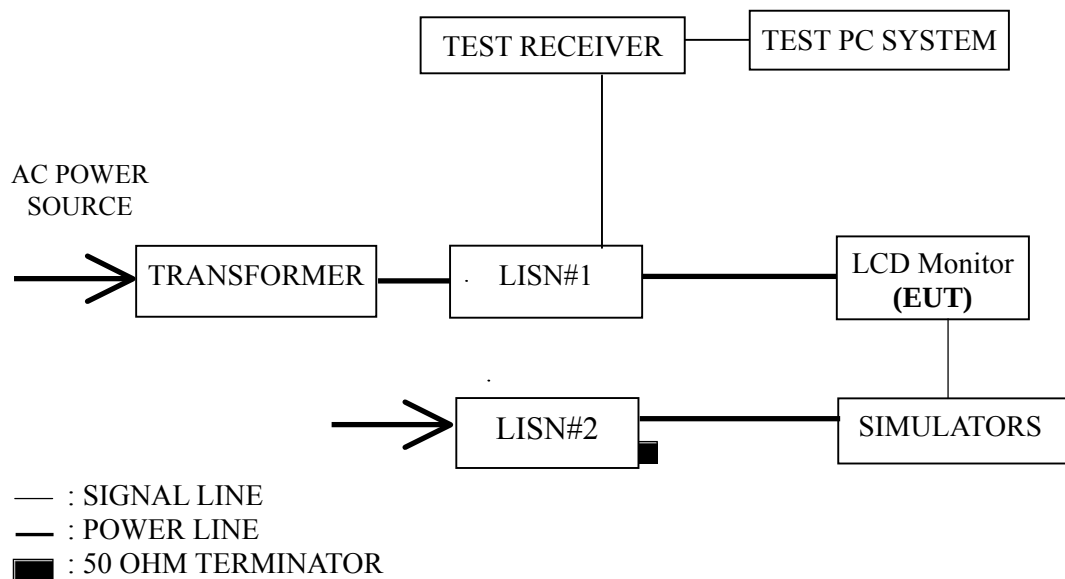
3.2 Block Diagram of Test Setup

3.2.1 EUT & Supported Simulators



■ : Magnetic core

3.2.2 Conducted Disturbance Test Setup



3.3 Conducted Emission Limit [FCC Part 15 Subpart B 15.107(a)]

Frequency Range (MHz)	Limits dB (μV)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 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 0.15 MHz~0.50 MHz
 NOTE 3 – If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec 2.2) were installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

- 3.5.1 Setup the EUT and simulators as shown in Sec. 3.2.
- 3.5.2 Turn on the power of all equipment and the EUT.
- 3.5.3 Set the contrast control to maximum.
- 3.5.4 Set the brightness control to maximum or at raster extinction if raster extinction occurs at less than maximum brightness.
- 3.5.5 For color monitors, use white letters on a black background to represent all color.
- 3.5.6 Select the worse case of positive or negative video if both alternatives are available.
- 3.5.7 Set character size and number of characters per line so that typically the greatest number of characters per screen is displayed.
- 3.5.8 For monitors with graphics capabilities, a pattern consisting of all scrolling Hs should be displayed. For monitors with text only capability, a pattern consisting of random text shall be displayed. If neither of the above is applied, use a typical display.
- 3.5.9 Set the EUT on the test modes in turn, and then test it.
- 3.5.10 The test modes are as follows:

VGA 640*480@60Hz	VGA 1024*768@60Hz	VGA 1280*1024@60Hz
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3.6 Test Procedures

The EUT was connected to the power mains through a Line Impedance Stabilization Network (LISN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (VA & VB) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of R&S Test Receiver ESHS10 was set at 10 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

3.7 Test Results

< PASS >

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

Test Mode	Page
VGA 640*480@60Hz	P12
VGA 1024*768@60Hz	P13
VGA 1280*1024@60Hz	P14

NOTE 1 – Factor = Cable Loss + LISN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – All reading are Quasi-Peak values.

NOTE 4 – The worst case is for VGA 640*480@60Hz mode. The worst emission is detected at 0.20 MHz with corrected signal level of 48.21 (μV) (limit is 63.62 dB (μV)), when the VA line of the EUT is connected to LISN.

EUT : LCD Monitor Temperature : 22°C

Model No. : L1954SMS Humidity : 60%

Serial No. : E07042711 Date of Test : Apr 28, 2007

Test Mode : VGA 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.15	46.89	0.71	47.60	65.87	18.27
	0.20	47.66	0.55	48.21	63.62	15.41
	0.26	44.12	0.48	44.60	61.29	16.69
	0.32	36.08	0.47	36.55	59.71	23.16
	0.53	26.41	0.42	26.83	56.00	29.17
	12.25	37.07	0.40	37.47	60.00	22.53
VB	0.15	46.45	0.68	47.13	65.82	18.69
	0.21	45.48	0.53	46.01	63.36	17.35
	0.24	39.83	0.46	40.29	62.04	21.75
	0.34	38.33	0.35	38.68	59.27	20.59
	0.53	29.96	0.32	30.28	56.00	25.726
	29.22	39.21	0.67	39.88	60.00	20.12

TEST ENGINEER: Ken
(KEN XU)

EUT : LCD Monitor Temperature : 22°C

Model No. : L1954SMS Humidity : 60%

Serial No. : E07042711 Date of Test : Apr 28, 2007

Test Mode : VGA 1024*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.19	47.08	0.57	47.65	63.89	16.24
	0.26	43.58	0.48	44.06	61.38	17.32
	0.33	37.59	0.47	38.06	59.44	21.38
	0.45	31.16	0.44	31.60	56.93	25.33
	0.54	28.40	0.42	28.82	56.00	27.18
	11.81	35.96	0.40	36.35	60.00	23.65
VB	0.15	47.54	0.67	48.21	65.74	17.53
	0.20	47.76	0.56	48.32	63.76	15.44
	0.26	41.15	0.43	41.58	61.42	19.84
	0.34	38.83	0.35	39.18	59.31	20.13
	2.84	29.87	0.30	30.17	56.00	25.83
	29.06	38.88	0.68	39.56	60.00	20.44

TEST ENGINEER: Ken
(KEN XU)

EUT : LCD Monitor Temperature : 22°C

Model No. : L1954SMS Humidity : 60%

Serial No. : E07042711 Date of Test : Apr 28, 2007

Test Mode : VGA 1280*1024@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.19	47.49	0.57	48.06	63.84	15.78
	0.26	41.91	0.49	42.40	61.42	19.02
	0.35	37.56	0.46	38.02	59.05	21.03
	0.41	32.34	0.45	32.79	57.73	24.94
	4.45	27.52	0.34	27.86	56.00	28.14
	29.22	38.33	0.66	38.99	60.00	21.01
VB	0.15	45.37	0.69	46.06	65.96	19.90
	0.19	46.38	0.57	46.95	63.98	17.03
	0.26	40.89	0.43	41.32	61.42	20.10
	0.34	39.38	0.35	39.73	59.31	19.58
	0.53	30.02	0.32	30.34	56.00	25.66
	28.75	37.85	0.67	38.52	60.00	21.48

TEST ENGINEER: Ken
(KEN XU)

4 RADIATED EMISSION TEST

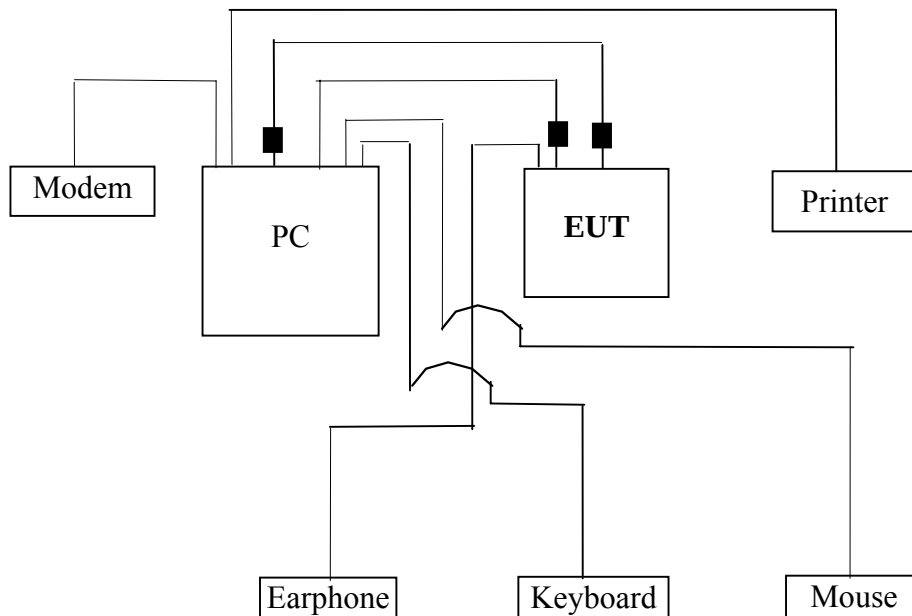
4.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESVS10	844594/001	Apr 06, 2007	Apr 06, 2008
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 19, 2007	Sep 19, 2007
3.	Preamplifier	HP	8449B	3008A00864	Apr 06, 2007	Apr 06, 2008
4.	Bi-log Antenna	Chase	CBL6111	1145	Mar 18, 2007	Sep 18, 2007
5.	Horn Antenna	EMCO	3115	9607-4878	Apr 06, 2007	Apr 06, 2008
6.	Spectrum	Agilent	E7405A	MY45106600	Apr 06, 2007	Apr 06, 2008
7.	Software	Audix	E3	SET00200 9912M295-2	--	--

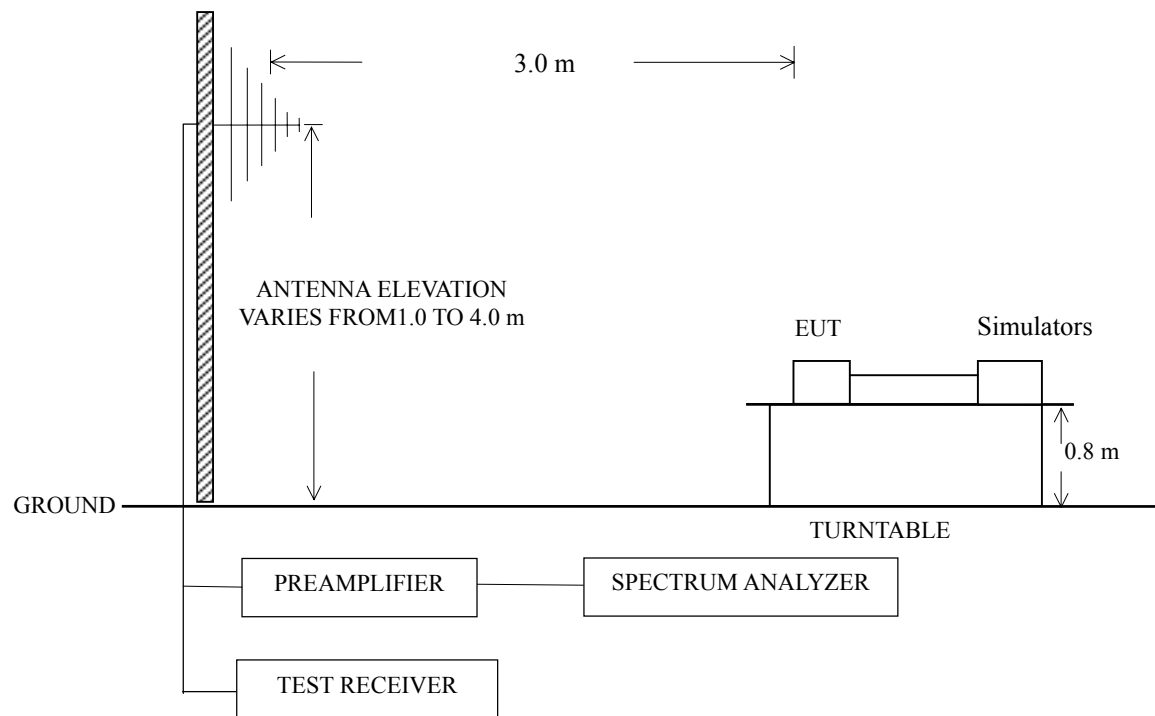
4.2 Block Diagram of Test Setup

4.2.1 EUT and simulators



■ : Magnetic Core

4.2.2 Radiated emission test setup



4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)]

Frequency (MHz)	Distance (m)	Field strength limits	
		($\mu\text{V/m}$)	dB ($\mu\text{V/m}$)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

NOTE 1 - Emission Level dB ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$)
 NOTE 2 - The tighter limit applies at the band edges.
 NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.

4.4 Test Configuration

The configuration of the EUT and simulators are same as those used in conducted emission test.

Please refer to Sec.3.4.

4.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.3.5, except the test setup replaced by Sec.4.2.

4.6 Test Procedures

The EUT and simulators were placed on a turntable that is 0.8 meter above ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The broadband antenna (Calibrated antenna) was used as receiving antenna below 1000MHz. The horn antenna was used as receiving antenna above 1000MHz. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. The broadband antenna (Calibrated Bilog Antenna) or the horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESHS10 was set at 120 kHz below 1GHz and The Spectrum Agilent HP7405EM was set at 1MHz above 1GHz.

The frequency range from 30 MHz to 2000 MHz was checked.

The frequency range from 1 GHz to 2 GHz was checked for VGA 1280*1024@60Hz mode.

The test modes were done on radiated disturbance test and all the test results are listed in Sec.4.7.

The test modes are as follows:

VGA 640*480@60Hz	VGA 1024*768@60Hz	VGA 1280*1024@60Hz
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4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Test Mode	Page
VGA 640*480@60Hz	P19
VGA 1024*768@60Hz	P20
VGA 1280*1024@60Hz	P21-22

NOTE 1 – Emission Level = Antenna Factor + Cable Loss + Meter Reading.($< 1\text{GHz}$)

NOTE 2 – Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading.($> 1\text{GHz}$)

NOTE 2 – The emission levels that are 20dB below the official limit are not reported.

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 5 – All reading are Quasi-Peak values below 1GHz. and Peak values equal or above 1GHz.

NOTE 6 – The worst case is for VGA 640*480@60Hz mode (low frequency). The worst emission at horizontal polarization was detected at 706.09 MHz with corrected signal level of 41.35 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was 1.20 m height and the turntable was at 210° . The worst emission at vertical polarization was detected at 858.38 MHz with corrected signal level of 45.50 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was 1.10 m height and the turntable was at 45° .

EUT : LCD Monitor Temperature : 22°C

Model No. : L1954SMS Humidity : 60%

Serial No. : E07042711 Date of Test : Apr 28, 2007

Test Mode : VGA 640*480@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	172.59	21.31	11.19	2.20	34.70	43.50	8.80
	216.24	22.43	13.35	2.50	38.28	46.00	7.72
	381.14	17.34	17.17	3.52	38.03	46.00	7.97
	589.69	13.04	20.83	4.22	38.09	46.00	7.91
	706.09	15.08	21.41	4.86	41.35	46.00	4.65
	751.68	12.74	22.69	5.11	40.54	46.00	5.46
Vertical	75.59	17.19	12.29	1.47	30.95	40.00	9.05
	125.06	19.87	12.06	1.90	33.83	43.50	9.67
	213.33	20.19	13.30	2.48	35.97	43.50	7.53
	381.14	17.52	17.17	3.52	38.21	46.00	7.79
	644.98	16.98	21.05	4.53	42.56	46.00	3.44
	761.38	16.74	22.90	5.15	44.79	46.00	1.21
	858.38	16.65	23.28	5.57	45.50	46.00	0.50

TEST ENGINEER: Leo Xue
(LEO XUE)

EUT : LCD Monitor Temperature : 22°C

Model No. : L1954SMS Humidity : 60%

Serial No. : E07042711 Date of Test : Apr 28, 2007

Test Mode : VGA 1024*768@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	172.59	22.14	11.19	2.20	35.53	43.50	7.97
	213.33	22.06	13.30	2.48	37.84	43.50	5.66
	269.59	23.17	13.60	2.93	39.70	46.00	6.30
	373.38	17.29	16.82	3.48	37.59	46.00	8.41
	643.04	11.69	21.05	4.49	37.23	46.00	8.77
	759.44	12.68	22.90	5.15	40.73	46.00	5.27
Vertical	126.03	19.86	12.02	1.91	33.79	43.50	9.71
	172.59	22.37	11.19	2.20	35.76	43.50	7.74
	376.29	16.70	16.94	3.50	37.14	46.00	8.86
	429.64	15.67	18.63	3.74	38.04	46.00	7.96
	643.04	16.26	21.05	4.49	41.80	46.00	4.02
	759.44	16.44	22.90	5.15	44.49	46.00	1.51

TEST ENGINEER: Leo Xue
(LEO XUE)

EUT : LCD Monitor Temperature : 22°C

Model No. : L1954SMS Humidity : 60%

Serial No. : E07042711 Date of Test : Apr 28, 2007

Test Mode : VGA 1280*1024@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	172.59	22.87	11.19	2.20	36.26	43.50	7.24
	213.33	20.97	13.30	2.48	36.75	43.50	6.75
	269.59	23.40	13.60	2.93	39.93	46.00	6.07
	373.38	17.20	16.82	3.48	37.50	46.00	8.50
	586.78	14.67	20.82	4.20	39.69	46.00	6.31
	754.59	10.22	22.76	5.15	38.13	46.00	7.87
Vertical	75.59	19.17	12.29	1.47	32.93	40.00	7.07
	216.24	20.35	13.35	2.50	36.20	46.00	9.80
	373.38	18.26	16.82	3.48	38.56	46.00	7.44
	586.78	16.55	20.82	4.20	41.57	46.00	4.43
	751.68	15.77	22.69	5.11	43.57	46.00	2.43
	853.53	15.15	23.31	5.55	44.01	46.00	1.99

TEST ENGINEER: Leo Xue
(LEO XUE)

EUT : LCD Monitor Temperature : 22°C

Model No. : L1954SMS Humidity : 60%

Serial No. : E07072711 Date of Test : Apr 28, 2007

Test Mode : VGA 1280*1024@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	1097.00	51.30	24.57	6.89	37.43	45.33	74.00	28.67
	1209.00	50.80	25.06	7.16	37.15	45.87	74.00	28.13
	1369.00	50.47	25.69	7.84	36.79	47.21	74.00	26.79
	1482.00	51.37	26.08	8.35	36.57	49.23	74.00	24.77
	1589.00	50.53	26.43	8.71	36.36	49.31	74.00	24.69
	1727.00	50.71	26.86	9.07	36.12	50.52	74.00	23.48
Vertical	1152.00	50.91	24.81	7.01	37.29	45.44	74.00	28.56
	1252.00	51.38	25.24	7.33	37.05	46.90	74.00	27.10
	1367.00	50.45	25.68	7.84	36.80	47.17	74.00	26.83
	1507.00	50.43	26.17	8.43	36.51	48.52	74.00	25.48
	1592.00	50.86	26.45	8.71	36.36	49.66	74.00	24.34
	1797.00	50.51	27.06	9.32	36.00	50.89	74.00	23.11

TEST ENGINEER: Leo Xue
(LEO XUE)

5 DEVIATION TO TEST SPECIFICATIONS

None

6 DEBUG DESCRIPTION

Name	M/N:	Specifications (mm)	Manufacturer	Location
Aluminum foil	T-308	40mm*20mm	DAEHUNG SUBSIDIARY MATERIALS	Reference to internal photos Figure 1