

Certificate of Test

August 2007

WinMate Communications INC.

Product Type : 20.1" LCD Monitor
Model Number : W20Lxxx-xxxx (x=a~z, A~Z, 0~9 or Blank)
Brand Name : WinMate
Test Report Number : 0706074 Rev. 1
Date of Test : July 07, 2007 – July 23, 2007

This Product was tested to the following standards at the laboratory of Global EMC Standard Tech. Corp., and found Compliance.

Standards:

FCC CFR 47, Part 15 Subpart B / CISPR 22 3rd Edition: 1997, Class B
ANSI C63.4: 2003
Canadian ICES-003

<http://www.gestek.com.tw>



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Date: August 08, 2007



NVLAP LAB CODE 200085-0

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)



hereby declares that the product

Product Name: 20.1" LCD Monitor

Model Number: W20Lxxx-xxxx (x=a~z, A~Z, 0~9 or Blank)

Conforms to the following specifications:

CISPR 22, Subpart B, Section 15.109(a), Class B Digital Device

Supplementary Information:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Representative Person's Name : _____

Signature : _____

Date : _____



**Test Report
Application for
Declaration of Conformity
On Behalf Of**

WinMate Communications INC.

EUT: 20.1" LCD Monitor

**Model Number:
W20Lxxx-xxxx (x=a~z, A~Z, 0~9, Blank)**

**Prepared for:
WinMate Communications INC.
9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.**

**Report By : Global EMC Standard Tech. Corp.
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Test results given in this report only relate to the specimen(s) tested, calibrated or measured.
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This report must not be use to claim product endorsement by any agency of the U.S. Government.
All data in this report are traceable to national standard or international standard.

TABLE OF CONTENTS

	DESCRIPTION	PAGE
1.	CERTIFICATION	3
2.	SUMMARY OF TEST RESULTS	4
3.	GENERAL INFORMATION	5
3.1	PRODUCTION DESCRIPTION.....	5
3.2	TEST MODES & EUT COMPONENTS DESCRIPTION	5
3.3	CONFIGURATION OF THE TESTED SYSTEM	6
3.4	BLOCK DIAGRAM OF CONNECTIONS BETWEEN EUT AND SIMULATORS	7
3.5	TEST METHODOLOGY	8
3.6	TEST FACILITY.....	8
4.	CONDUCTED EMISSION MEASUREMENT	9
4.1	TEST EQUIPMENTS.....	9
4.2	BLOCK DIAGRAM OF TEST SETUP	9
4.3	CONDUCTED EMISSION LIMIT	10
4.4	EUT CONFIGURATION ON MEASUREMENT	10
4.5	CONDUCTED EMISSION DATA	10
4.6	OPERATING CONDITIONS OF THE EUT.....	11
4.7	CONDUCTED EMISSION MEASUREMENT RESULTS.....	12
5.	RADIATED EMISSION MEASUREMENT	14
5.1	TEST EQUIPMENT	14
5.2	OPEN TEST SITE SETUP DIAGRAM	14
5.3	RADIATED EMISSION LIMIT.....	15
5.4	EUT CONFIGURATION	15
5.5	OPERATING CONDITION OF EUT	15
5.6	RADIATED EMISSION DATA	15
5.7	RADIATED EMISSIONS MEASUREMENT RESULTS	16
6.	PHOTOGRAPHS FOR TEST	18
6.1	TEST PHOTOGRAPHS FOR CONDUCTION.....	18
6.2	TEST PHOTOGRAPHS FOR RADIATED.....	19
7.	PHOTOGRAPHS FOR PRODUCT	20
8.	EMI/EMS REDUCTION METHOD DURING COMPLIANCE TESTING	22

1. CERTIFICATION

Applicant : **WinMate Communications INC.**
 EUT Description : 20.1" LCD Monitor
 Model Number : W20Lxxx-xxxx (x=a~z, A~Z, 0~9, Blank)
 Brand Name : WinMate
 Serial Number : N/A
 Tested Power Supply : 120Vac/60Hz

MEASUREMENT PROCEDURES USED:

- CFR 47, Part 15** Radio Frequency Device Subpart B Unintentional Radiators Class B
- CISPR 22 3rd Edition:1997** Limits and methods of measurement of radio disturbance Characteristics of information technology equipment: 1997
- ANSI C63.4** Methods of Measurements of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the range of 9kHz To 40GHz:2003
- Canadian ICES-003** Implementation and Interpretation off the Interference-Causing Equipment Standard for Digital Apparatus, ICES-003

THE MEASUREMENT SHOWN IN THE ATTACHMENT WAS MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE MAXIMUM ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE ABOVE LIMITS APPLICABLE.



NVLAP LAB CODE 200085-0

Date of Test: July 07, 2007 – July 23, 2007

In order to ensure the quality and accuracy of this document, the contents have been thoroughly reviewed by the following qualified personnel from GesTek Lab.

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This test data shown below is traceable to National or international standard such as NIST/USA, etc. The laboratory's NVLAP accreditation in no way constitutes or implies product certification, approval, or endorsement by NVLAP or the United States government.

2. SUMMARY OF TEST RESULTS

The Worst Emission data was found as following

STANDARD	TEST ITEM	TEST RESULT	REMARKS
(1)FCC Part 15 (2)CISPR 22 3 rd Edition:1997 (3)Canadian ICES-003. Class B	Conducted emission (Mode 1)	PASS	The worst emission frequency is <u>4.1711</u> MHz And minimum passing margin is <u>-22.90</u> dB The measurement uncertainty is <u>3.6</u> dB.
	Radiated emission (Mode 1)	PASS	The worst emission frequency is <u>645.3700</u> MHz at <u>Vertical</u> . And minimum passing margin is <u>-4.15</u> dB. Height of antenna is <u>1.0</u> M. Angle of turntable is <u>167°</u> . The measurement uncertainty is <u>5.1</u> dB.

3. GENERAL INFORMATION

3.1 PRODUCTION DESCRIPTION

Product Name : 20.1" LCD Monitor
Model Number : W20Lxxx-xxxx (x=a~z, A~Z, 0~9 or Blank)
Brand Name : WinMate
Serial Number : N/A
Applicant : WinMate Communications INC.
Address : 9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.
Manufacturer : WinMate Communications INC.
Address : 9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.
Power Supply : AC Input: 100-240V~, 50-60Hz, 1.5A
 DC Output: 12V, 6.67A
Power Cord : 3Pins, Non-Shielded, 1.8m, Detachable

3.2 TEST MODES & EUT COMPONENTS DESCRIPTION

EUT: 20.1" LCD Monitor, M/N: W20Lxxx-xxxx (x=a~z, A~Z, 0~9 or Blank)			
Test Mode Name	Mode 1 –D-Sub Test Mode	Mode 2 –D-Sub Pre-scan Mode	Mode 3 –D-Sub Pre-scan Mode
Resolution	1360 x 768, V-Sync: 60Hz	1024 x 768, V-Sync: 60Hz	640 x 480, V-Sync: 60Hz

Note:

1. According to pre-scan data, we determine the data (Mode 1) shown in this test report, which reflects the worst-case data for each operation mode.
2. The EUT has a series model numbers for the requirement of marketing.

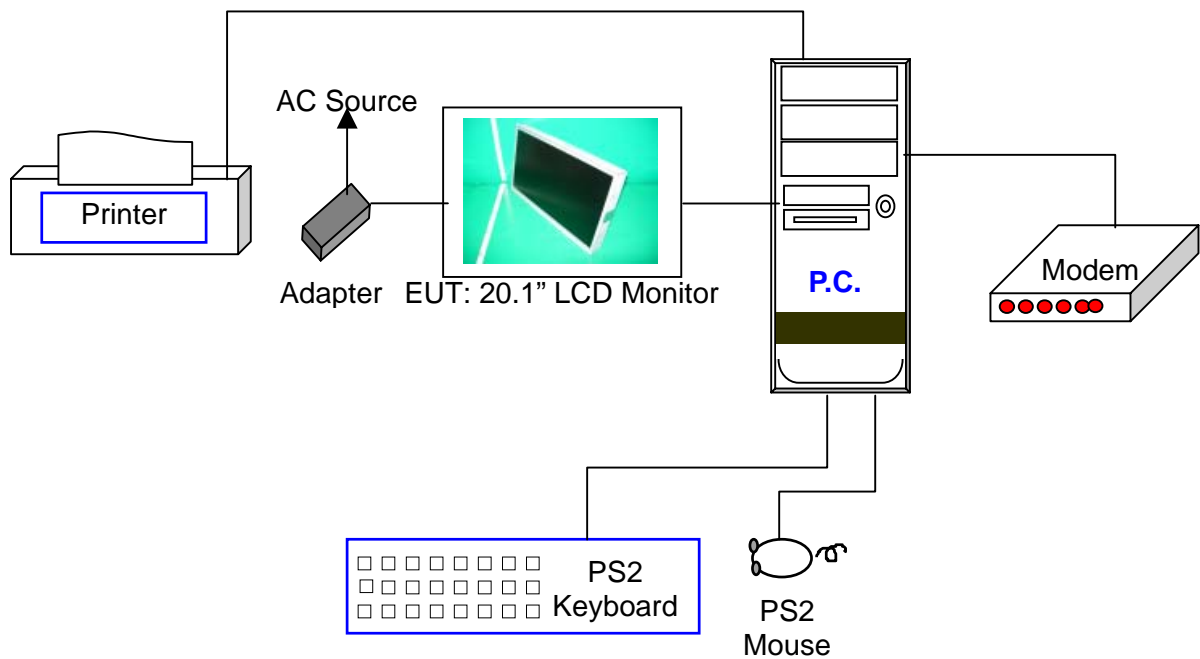
3.3 CONFIGURATION OF THE TESTED SYSTEM

The FCC IDs/Types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

Device	No.	Configuration
Printer	P01-018	Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40842 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable Power Cord : Non-Shielded, Detachable, 1.8m
Modem	M03-018	Manufacturer : ACEEX Model Number : 1414V Serial Number : 0046171 BSMI ID : N/A FCC ID : IFAXDM1414 Data Cable : T Type:RS232, Shielded, Detachable, 1.2m Power Cord : Non-Shielded, Detachable, 1.5m Line : Type:RJ11(4P2C), Detachable, 1.8m Phone : Type:RJ11(4P2C), Detachable, 1.8m
PS2 Keyboard	K01-099	Manufacturer : acer Model Number : T200-P BSMI ID : R41097 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.8 m
PS2 Mouse	M02-301	Manufacturer : IBM Model Number : MU29J Serial Number : 23021308 BSMI ID : 3902A581 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5m

Device	No.	Configuration
PC System	DELL PC 6	Model Number : Dimension 4600 BSMI ID : R33002 Serial Number : HW4NB1S C.P.U : Intel Pentium 4 2.8GHz/533MHz DDR : HYNIX PC2700 128M *2 VGA : Manufacturer :ASUS M/N:A9600SE/TD/128M/A S/N:43CG115386 BSMI ID:D3005 H.D.D. : Manufacturer : WD 40G M/N:WD400BB-75FJA1 BSMI ID:D33015 CD-RW/DVD-ROM : Manufacturer :Toshiba M/N:sw-252 BSMI ID:D33020 Mother Board : DELL M/N:E210882 S.P.S : DELL M/N: NPS-250KB F Input: 100-120V 9A, 200-240V 4.5A 50/60 Hz Output: +5V/22A, -12V/1A, +12V/16A, +3.3V/18A +5VSB/2A BSMI ID: D33002

3.4 BLOCK DIAGRAM OF CONNECTIONS BETWEEN EUT AND SIMULATORS



3.5 TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2003.

Radiated testing was performed at an antenna to EUT distance of 10 meters.

(For frequencies below 1000MHz)

3.6 TEST FACILITY

Ambient conditions in the laboratory:

ITEMS	Requirement
TEMPERATURE (°C)	10-40
HUMIDITY (%RH)	10-90
BAROMETRIC PRESSURE (mbar)	860-1060
FCC SITE DESCRIPTION	Aug. 10, 1995 /Aug. 25, 1998 File on FCC Engineering Laboratory Federal Communication Commission 7435 Oakland Mills Road Columbia, MD 21046 Reference 31040/SIT1300F2
NVLAP LAB. CODE	200085-0 United States Department of commerce National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program Accreditation on NVLAP effective through Sep. 30,2007 For CISPR 22, FCC Method and AS/NZS CISPR 22 Measurement.
Taiwan Accreditation Foundation (TAF)	Recognized by the Council of Taiwan Accreditation Foundation and confirmed to meet the requirements of ISO/IEC 17025. Registration No.: 1082 Registration on TAF effective through Sep. 19,2009

4. CONDUCTED EMISSION MEASUREMENT

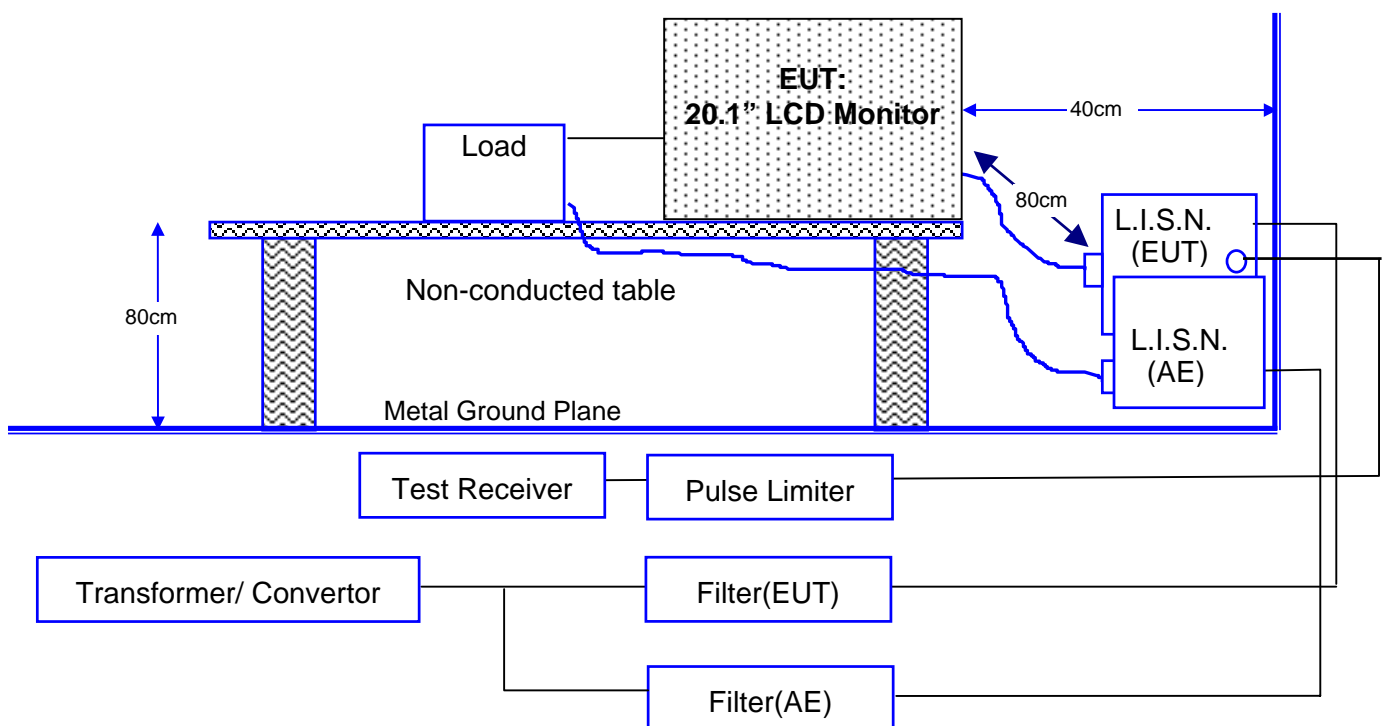
4.1 TEST EQUIPMENTS

The following test equipment are used during the conducted power line tests:

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal. Date
1	Test Receiver	R & S	ESCS30	825022/003	05/26/07
2	LISN.(EUT)	R & S	ESH3-Z5	840567/002	11/08/06
3	L.I.S.N.(AE)	KYORITSU	KNW-407	8-1345-10	10/17/06
4	Pulse Limiter	R & S	ESH3-Z2	357.8810.52	08/03/06
5	RF CABLE	GTK	N/A	GTK-E-A154-01	11/28/06
6	50 Ohm Terminator	GTK	N/A	GTK-E-A130-01	N/A
7	Shielded Room	GTK	N/A	B5	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

4.2 BLOCK DIAGRAM OF TEST SETUP



Note: This is a representative setup diagram for Table-top EUT.

For Floor-standing EUT, the table will be removed with all others setup condition remain the same.

4.3 CONDUCTED EMISSION LIMIT

FCC Limit

Frequency	Maximum RF Line Voltage			
	Class A		Class B	
MHz	μV	$dB\mu V$	μV	$dB\mu V$
0.45 to 1.705	1000	60.0	250	48.0
1.705 to 30	3000	69.5	250	48.0

Remarks : 1. RF Line Voltage ($dB\mu V$) = 20 log RF Line Voltage (μV).
 2. In the Above Table, the tighter limit applies at the band edges.

CISPR Limit

Frequency	Maximum RF Line Voltage $dB(\mu V)$			
	Class A		Class B	
MHz	QUASI-PEAK	AVERAGE	QUASI-PEAK	AVERAGE
0.15 to 0.50	79	66	66 to 56	56 to 46
0.50 to 5.0	73	60	56	46
5.0 to 30	73	60	60	50

Remarks : In the Above Table, the tighter limit applies at the band edges.

4.4 EUT CONFIGURATION ON MEASUREMENT

The equipments that are listed 4.1 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 4.2, was placed on a non-conductive table whose total height equal to 80cm. Powered from one L.I.S.N. which signal output to receiver, and the other peripherals were powered from another L.I.S.N. which signal output was terminated by 50 Ω .

4.5 CONDUCTED EMISSION DATA

The measurement range of conducted emission, which is from **0.15 MHz to 30 MHz**, was investigated. All readings are quasi-peak and average values with a resolution Bandwidth of 9 KHz. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

4.6 OPERATING CONDITIONS OF THE EUT

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

1. Setup the EUT and simulators as shown on 4.2.
2. Turn on the power of all equipments.
3. Boot the P.C. from Hard Disk and setup the video to Windows XP, active all devices.
4. Adjust to appropriate video resolution.
5. Active other internal devices such as network function.
6. Run "EMC TEST" test program under Windows XP.
7. P.C. sent "H" pattern to monitor, make the "H" pattern full in the screen.
8. P.C. sent "H" pattern to parallel and serial port.
9. Repeat above steps.

4.7 CONDUCTED EMISSION MEASUREMENT RESULTS

Date of Test	July 23, 2007	Temperature	24.5
EUT	20.1" LCD Monitor	Humidity	50 %
Test Mode	Mode 1	Display Pattern	H Pattern
Test Power Supply	AC 120Vac/60Hz		

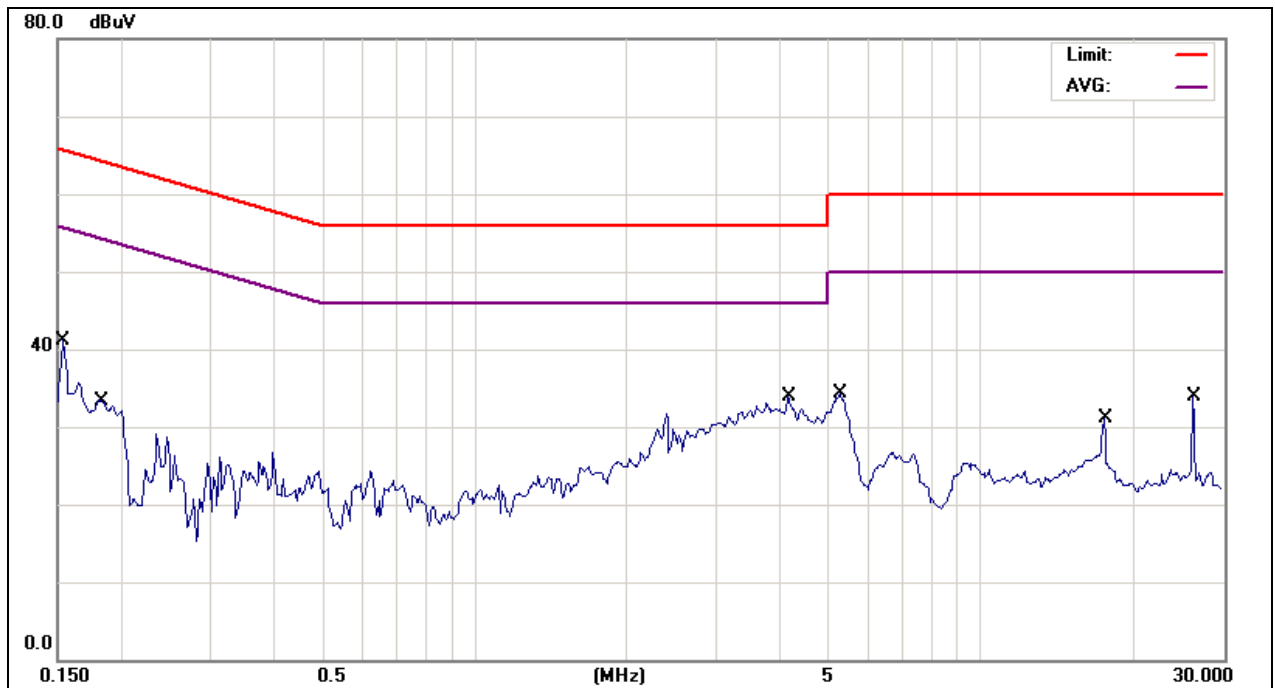
Line

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V	Limit dB μ V	Over Limit dB	Detector
1	0.1540	37.18	0.12	37.30	65.78	-28.48	QP
2	0.1540	17.72	0.12	17.84	55.78	-37.94	AVG
3	0.1847	31.42	0.13	31.55	64.27	-32.72	QP
4	0.1847	24.24	0.13	24.37	54.27	-29.90	AVG
5	4.1711	27.96	0.48	28.44	56.00	-27.56	QP
6	4.1711	22.62	0.48	23.10	46.00	-22.90	AVG
7	5.2786	29.57	0.57	30.14	60.00	-29.86	QP
8	5.2786	24.29	0.57	24.86	50.00	-25.14	AVG
9	17.5681	26.51	1.21	27.72	60.00	-32.28	QP
10	17.5681	20.25	1.21	21.46	50.00	-28.54	AVG
11	26.3089	28.91	1.57	30.48	60.00	-29.52	QP
12	26.3089	22.76	1.57	24.33	50.00	-25.67	AVG

Remarks :

1. All readings are Quasi-peak and Average values.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. Factor = L.I.S.N. insertion loss + cable loss
5. " " means that this data is the worse case measurement level.
6. The measurement uncertainty is 3.6 dB.

Line



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

Date of Test	July 23, 2007	Temperature	24.5
EUT	20.1" LCD Monitor	Humidity	50 %
Test Mode	Mode 1	Display Pattern	H Pattern
Test Power Supply	AC 120Vac/60Hz		

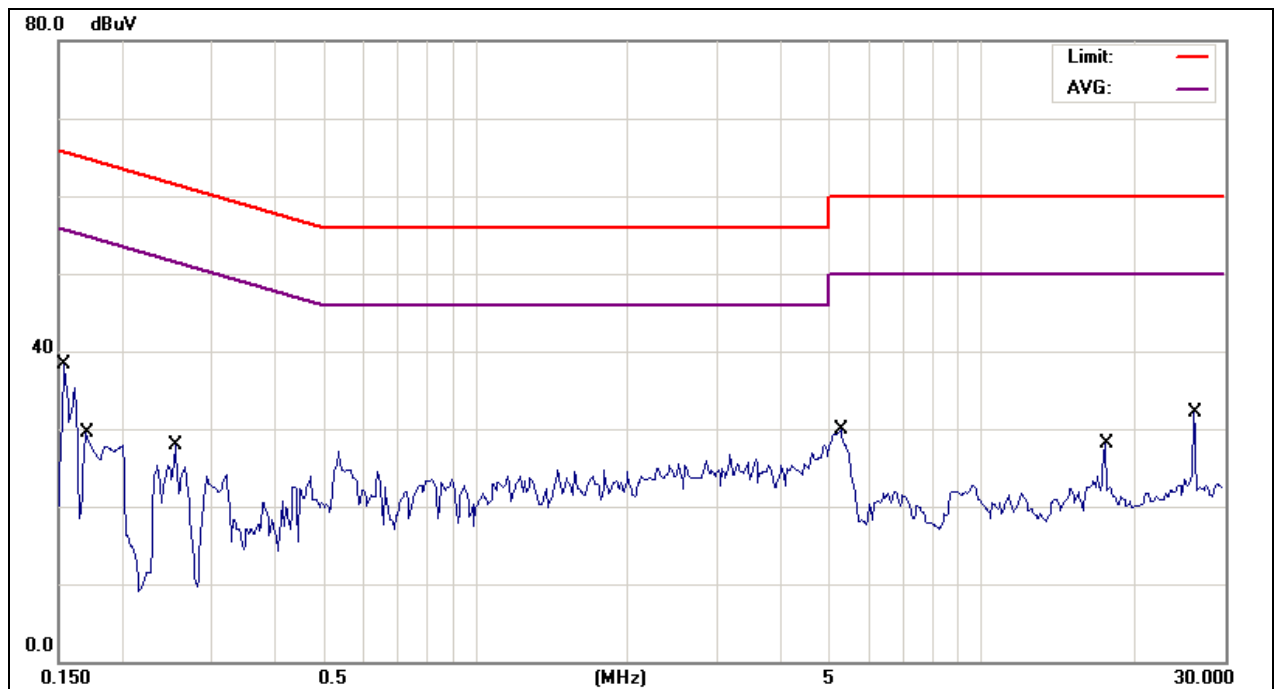
Neutral

No.	Frequency MHz	Reading Level dBμV	Factor dB	Measurement dBμV	Limit dBμV	Over Limit dB	Detector
1	0.1515	36.61	0.12	36.73	65.92	-29.19	QP
2	0.1515	16.54	0.12	16.66	55.92	-39.26	AVG
3	0.1694	28.13	0.12	28.25	64.99	-36.74	QP
4	0.1694	17.38	0.12	17.50	54.99	-37.49	AVG
5	0.2554	24.75	0.14	24.89	61.58	-36.69	QP
6	0.2554	15.37	0.14	15.51	51.58	-36.07	AVG
7	5.2769	25.67	0.55	26.22	60.00	-33.78	QP
8	5.2769	20.39	0.55	20.94	50.00	-29.06	AVG
9	17.5692	27.40	1.06	28.46	60.00	-31.54	QP
10	17.5692	21.51	1.06	22.57	50.00	-27.43	AVG
11	26.3066	30.51	1.35	31.86	60.00	-28.14	QP
12	26.3066	24.22	1.35	25.57	50.00	-24.43	AVG

Remarks :

1. All readings are Quasi-peak and Average values.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. Factor = L.I.S.N. insertion loss + cable loss
5. " " means that this data is the worse case measurement level.
6. The measurement uncertainty is 3.6 dB.

Neutral



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

5. RADIATED EMISSION MEASUREMENT

5.1 TEST EQUIPMENT

The following test equipments are used during the radiated emission tests:

Radiated emission measurement was performed at: Site #1 Site #2 Site #3 Site #4

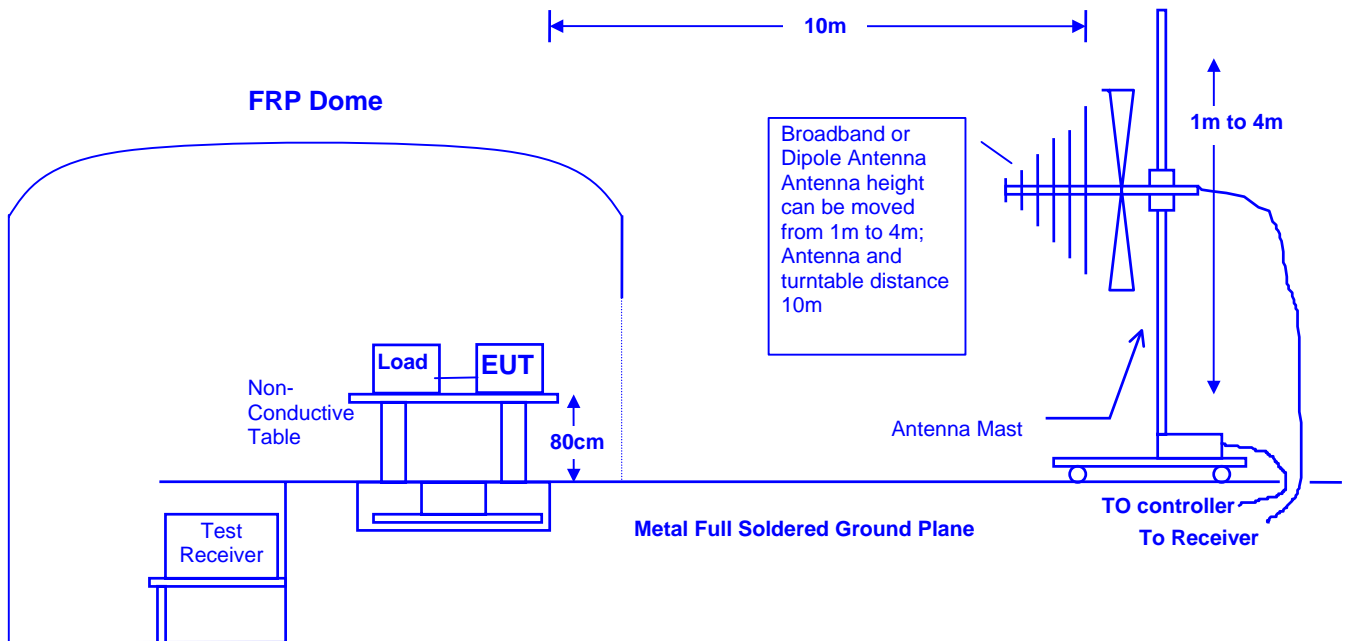
Item	Instrument	Manufacturer	Model	Serial No.	Last Cal. Date
1	TEST RECEIVER	R & S	ESVS10	8421122/001	04/17/07
2	SPECTRUM	ADVANTEST	U3751	161000225	01/02/07
3	PRE-AMPLIFIER	HP	8447D	2944A08610	09/11/06
4	BILOG Antenna	SCHAFFNER	CBL6112B	2833	11/24/06
5	RF Cable	GTK	N/A	GTK-E-A150-01	12/15/06
6	Open Site	GTK	N/A	A2	07/05/07

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

5.2 OPEN TEST SITE SETUP DIAGRAM

Note: This is a reprehensive setup diagram for Table-top EUT.

For Floor-standing EUT, the table will be removed with all others setup condition remain the same.



5.3 RADIATED EMISSION LIMIT

FCC Class A Limit at 10m

Frequency	Distance	Field Strength	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
MHz	Meter		
30 to 88	10	90	39.0
88 to 216	10	150	43.5
216 to 960	10	210	46.4
Above 960	10	300	49.5

- Remark :1. The tighter limit shall apply at the edge between two frequency bands.
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

CISPR Class B Limit at 10m

Frequency	Distance	Field Strength
		$\text{dB}(\mu\text{V/m})$
MHz	Meter	
30 to 230	10	30
230 to 1000	10	37

- Remark :1. The tighter limit shall apply at the edge between two frequency bands.
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

5.4 EUT CONFIGURATION

The equipment which is listed 5.1 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 5.2, was placed on a non-conductive table whose total height equaled 80 cm. This table can be rotated 360 degree. The measurement antenna was mounted to a non-conductive mast capable of moving the antenna vertically. Antenna height was varied from 1 meter to 4 meters and the system under test was rotated from 0 degree through 360 degrees relative to the antenna position and polarization (Horizontal and Vertical). Also the I/O cable position was investigated to find the maximum emission condition.

5.5 OPERATING CONDITION OF EUT

Same as section 4.6.

5.6 RADIATED EMISSION DATA

The measurement range of radiated emission, which is from **30 MHz to 1 GHz**, was investigated. All readings are quasi-peak values with a resolution Bandwidth of 120 KHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scans of the measurement range for all the test modes and then use test receiver for final measurement. Then the worst modes were reported the following data pages.

5.7 RADIATED EMISSIONS MEASUREMENT RESULTS

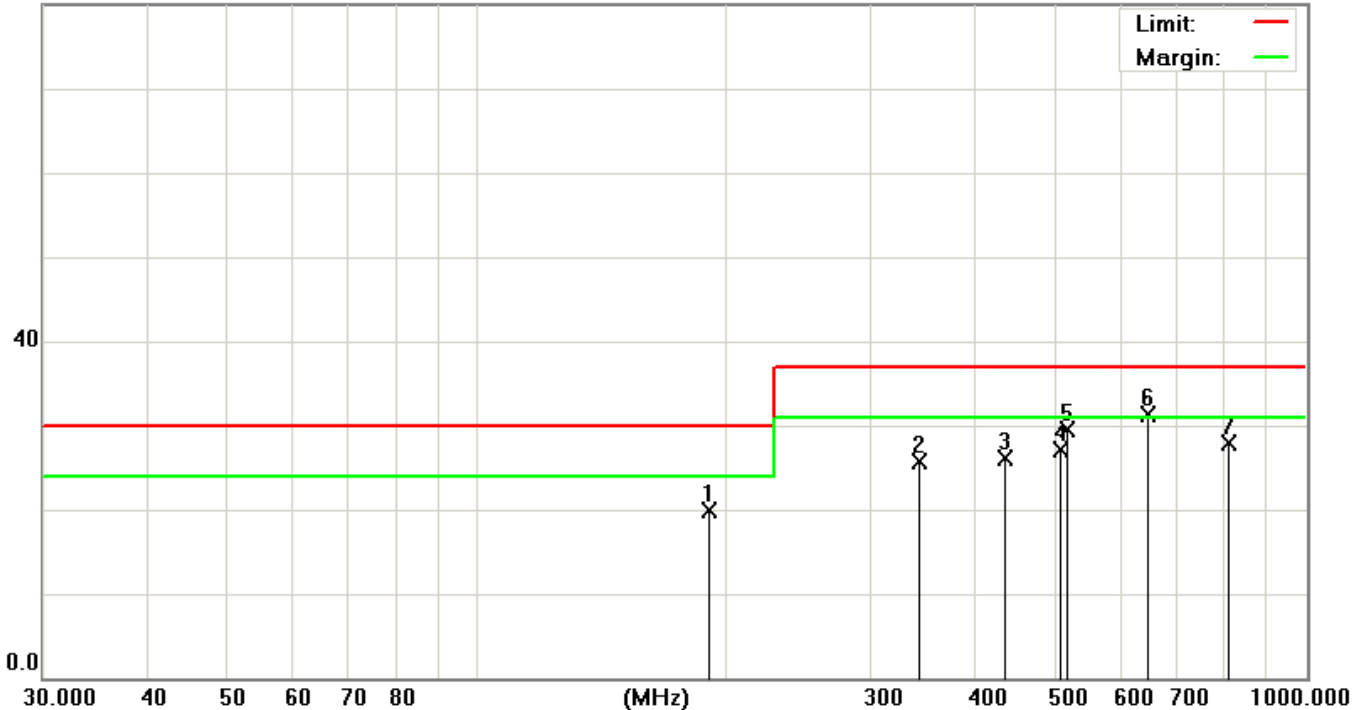
Date of Test	July 07, 2007	Temperature	26.5 deg/C
EUT	20.1" LCD Monitor	Humidity	58 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	10m at Horizontal	Frequency Range	30-1000MHz
Test Power Supply	AC 120Vac/60Hz		

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	191.2999	32.64	-12.80	19.84	30.00	-10.16	QP
2	342.5481	32.25	-6.52	25.73	37.00	-11.27	QP
3	434.6900	30.82	-4.70	26.12	37.00	-10.88	QP
4	508.1690	30.56	-3.46	27.10	37.00	-9.90	QP
5	515.5120	32.86	-3.36	29.50	37.00	-7.50	QP
6	645.5000	32.88	-1.64	31.24	37.00	-5.76	QP
7	809.4260	27.13	0.68	27.81	37.00	-9.19	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. Factor = antenna factor + cable loss – amplifier gain.
5. “ ” means that this data is the worse case measurement level.
6. The measurement uncertainty is 5.1 dB.

80.0 dBuV/m



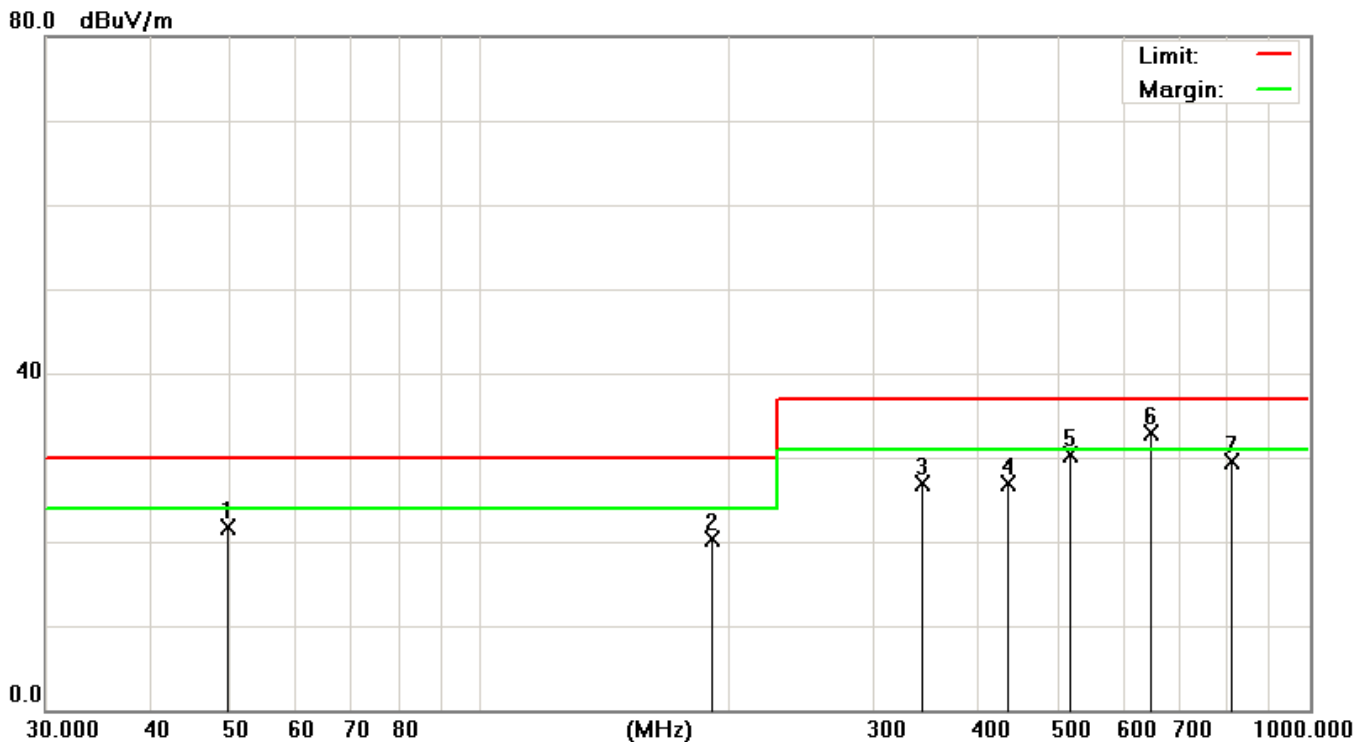
Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

Date of Test	July 07, 2007	Temperature	26.5 deg/C
EUT	20.1" LCD Monitor	Humidity	58 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	10m at Vertical	Frequency Range	30-1000MHz
Test Power Supply	AC 120Vac/60Hz		

No.	Frequency MHz	Reading Level dBμV	Factor dB	Measurement dBμV/m	Limit dBμV/m	Over Limit dB	Detector
1	49.7551	38.60	-16.92	21.68	30.00	-8.32	QP
2	191.3100	33.05	-12.80	20.25	30.00	-9.75	QP
3	342.7400	33.51	-6.51	27.00	37.00	-10.00	QP
4	434.6000	31.60	-4.70	26.90	37.00	-10.10	QP
5	515.4601	33.64	-3.36	30.28	37.00	-6.72	QP
6	645.3700	34.50	-1.65	32.85	37.00	-4.15	QP
7	809.5200	28.90	0.68	29.58	37.00	-7.42	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. Factor = antenna factor + cable loss – amplifier gain.
5. " " means that this data is the worse case measurement level.
6. The measurement uncertainty is 5.1 dB.

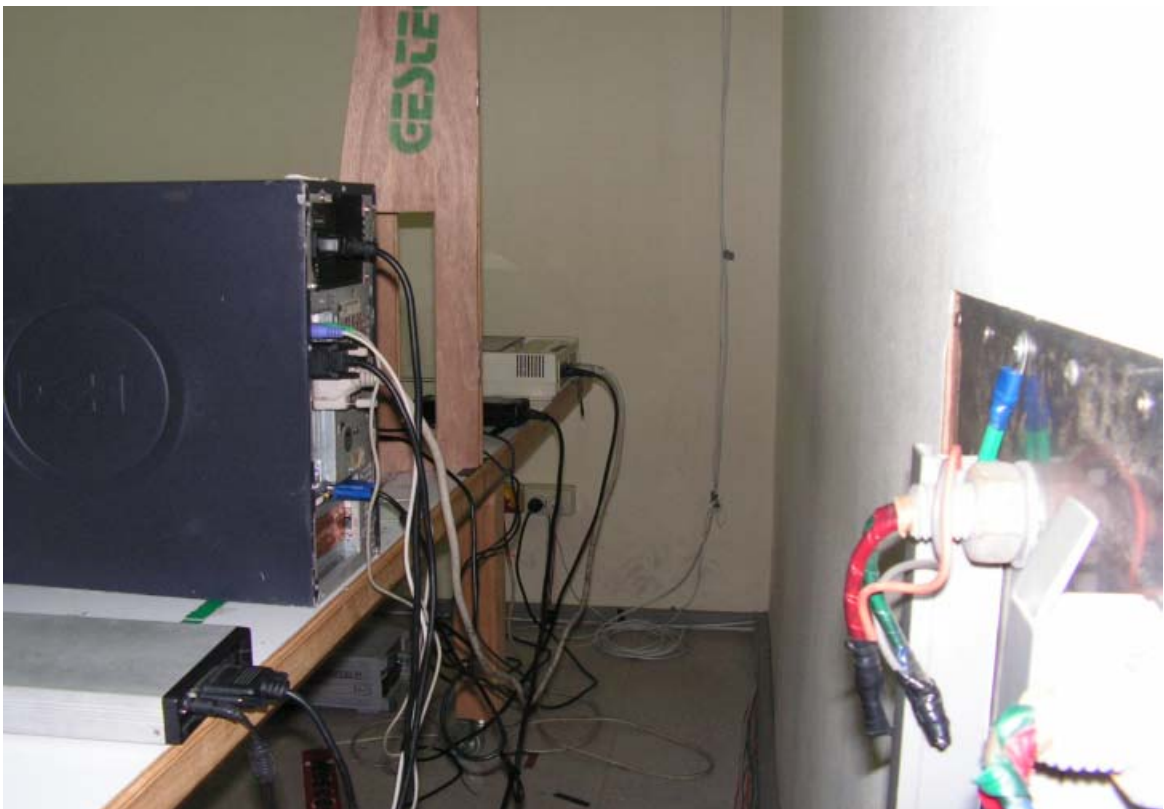


Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

6. PHOTOGRAPHS FOR TEST

6.1 TEST PHOTOGRAPHS FOR CONDUCTION

Mode 1



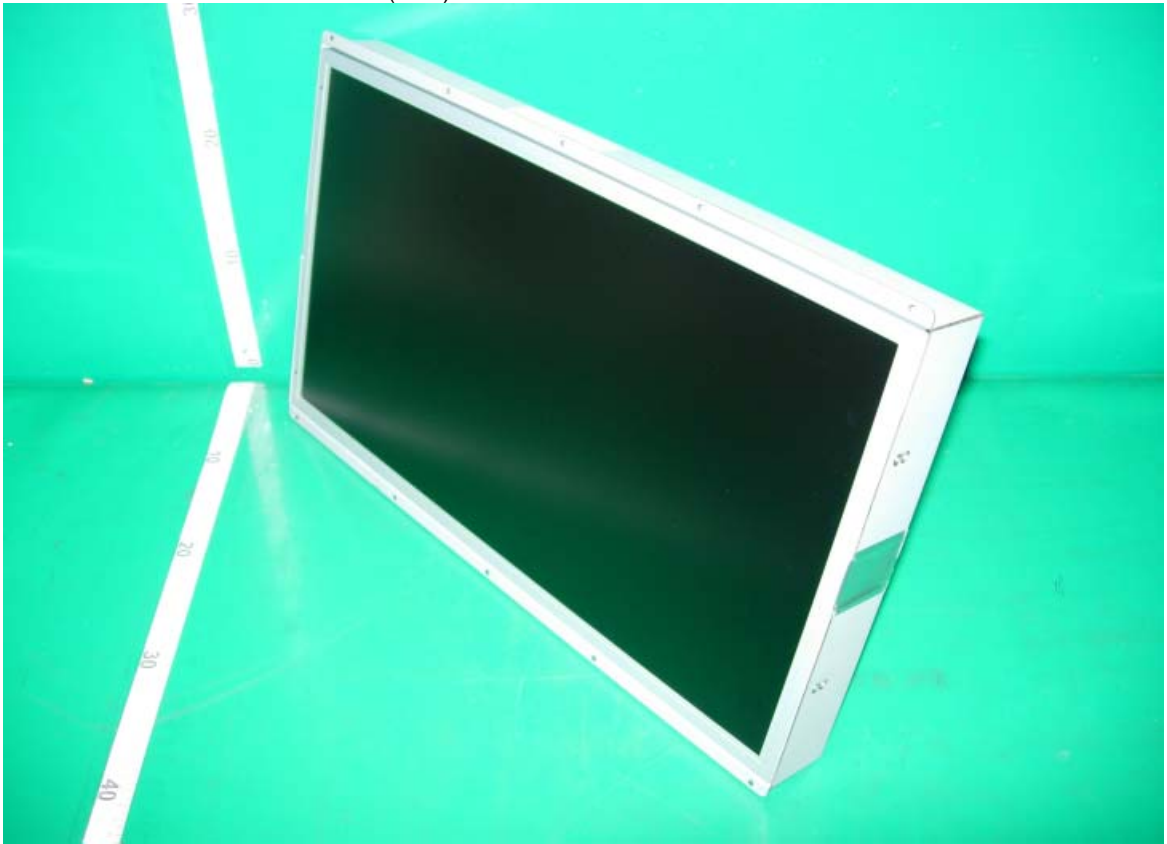
6.2 TEST PHOTOGRAPHS FOR RADIATED

Mode 1



7. PHOTOGRAPHS FOR PRODUCT

1. Front View Of 20.1" LCD Monitor (EUT)
2. Back View Of 20.1" LCD Monitor (EUT)



- 3. Front View Of Adapter
- 4. Back View Of Adapter



8. EMI/EMS REDUCTION METHOD DURING COMPLIANCE TESTING

No modification was made during testing.

Appendix A

Circuit (Block) Diagram

(Shall be added by Applicant)

Appendix B

User Manual

(Shall be added by Applicant)