

Certificate of Test

August 2007

WinMate Communications INC.

Product Type : 24" CHASSIS LCD
Model Number : W24Lxxxx-xxxx (x=0~9, a~z, A~Z or Blank)
Brand Name : WinMate
Test Report Number : 0707073 Rev. 1
Date of Test : July 24, 2007 – July 25, 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 13, 2007



NVLAP LAB CODE 200085-0



DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)



hereby declares that the product

Product Name: 24" CHASSIS LCD

Model Number: W24Lxxxx-xxxx (x=0~9, a~z, A~Z or Blank)

Conforms to the following specifications:

FCC CFR 47, Part 15 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 : _____

Address: _____

Telephone number: _____

Signature : _____



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

WinMate Communications INC.

EUT: 24" CHASSIS LCD

Model Number:

W24Lxxxx-xxxx (x=0~9, a~z, A~Z or 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.

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1. CERTIFICATION

Applicant : **WinMate Communications INC.**
 EUT Description : 24" CHASSIS LCD
 Model Number : W24Lxxxx-xxxx (x=0~9, a~z, A~Z or 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 24, 2007 – July 25, 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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Approved By :

Tonny Lin

Tonny Lin / General Manager

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>2.4728</u> MHz And minimum passing margin is <u>-11.46</u> dB The measurement uncertainty is <u>3.6</u> dB.
	Radiated emission (Mode 1)	PASS	The worst emission frequency is <u>165.4055</u> MHz at <u>Vertical</u> . And minimum passing margin is <u>-3.90</u> dB. Height of antenna is <u>1.5</u> M. Angle of turntable is <u>75°</u> . The measurement uncertainty is <u>5.1</u> dB.

3. GENERAL INFORMATION

3.1 PRODUCTION DESCRIPTION

Product Name : 24" CHASSIS LCD
Model Number : W24Lxxxx-xxxx (x=0~9, a~z, A~Z 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, 3A
 DC Output: 24V, 9A
Power Cord : 3Pins, Non-Shielded, 1.8m, Detachable

3.2 TEST MODES & EUT COMPONENTS DESCRIPTION

EUT: 24" CHASSIS LCD, M/N: W24Lxxxx-xxxx (x=0~9, a~z, A~Z 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	1920 x 1200, V-Sync: 60Hz	1280 x 1024, V-Sync: 60Hz	800 x 600, 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.

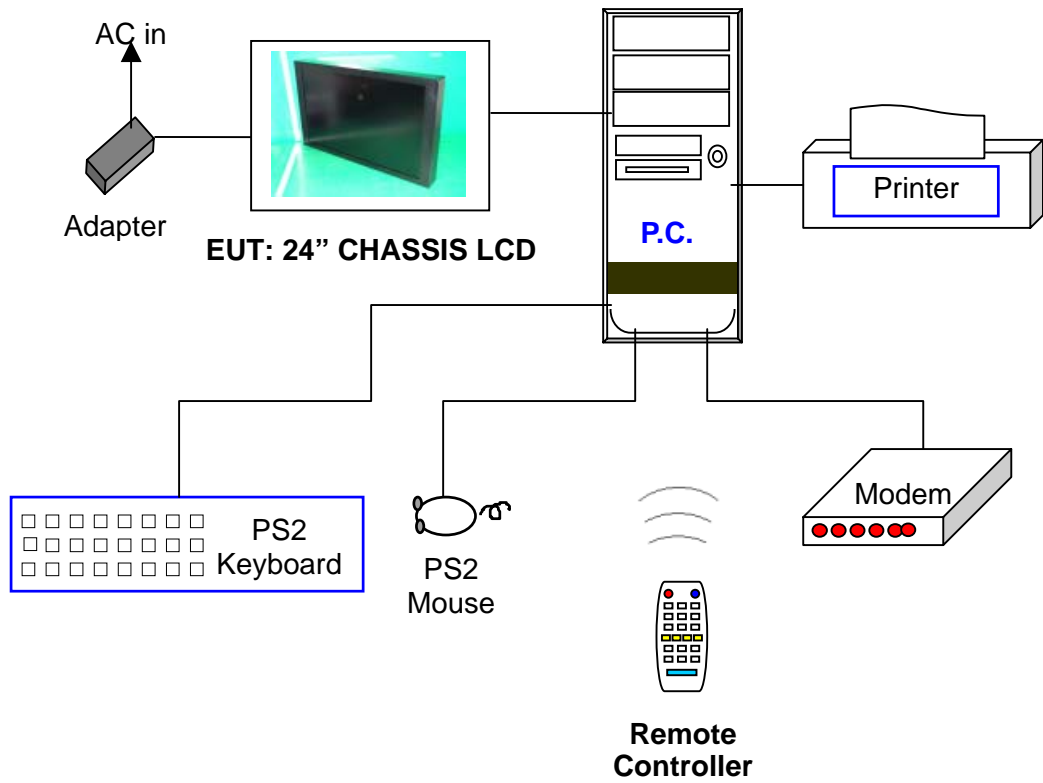
3.3 CONFIGURATION OF THE TESTED SYSTEM

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
PS2 Mouse	M02-300	Manufacturer : IBM Model Number : MU29J Serial Number : 23021308 BSMI ID : 3902A581 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5m
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
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

Device	No.	Configuration
<p align="center">PC System</p>	<p align="center">HP PC06</p>	<p>Model Number : Pavilion a000 BSMI ID : R33001 Serial Number : TWL410000F C.P.U : AMD Athlon XP 2400+ DDR : infineon PC2700 256M *2 DDR333 FDD : MITSUMI M/N:D353M3D BSMI ID:D63119 H.D.D. : Manufacturer :SAMSUNG M/N:SV041IN 40G BSMI ID:D33475 DVD-ROM : Manufacturer :PHILIPS M/N:DR0M6016/4A BSMI ID:D43002 Mother Board : ASUS M/N:A7V8X-LA BSMI ID:D33005 S.P.S : HIPRO M/N:HP-D2537F3H Input: 100-127V /6 A , 200-240V/ 4A 47~63 Hz Output: +5V/22A,-12V/0.8A,+12V/14A,+3.3V/18A +5VSB/2A BSMI ID:D33036</p>

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

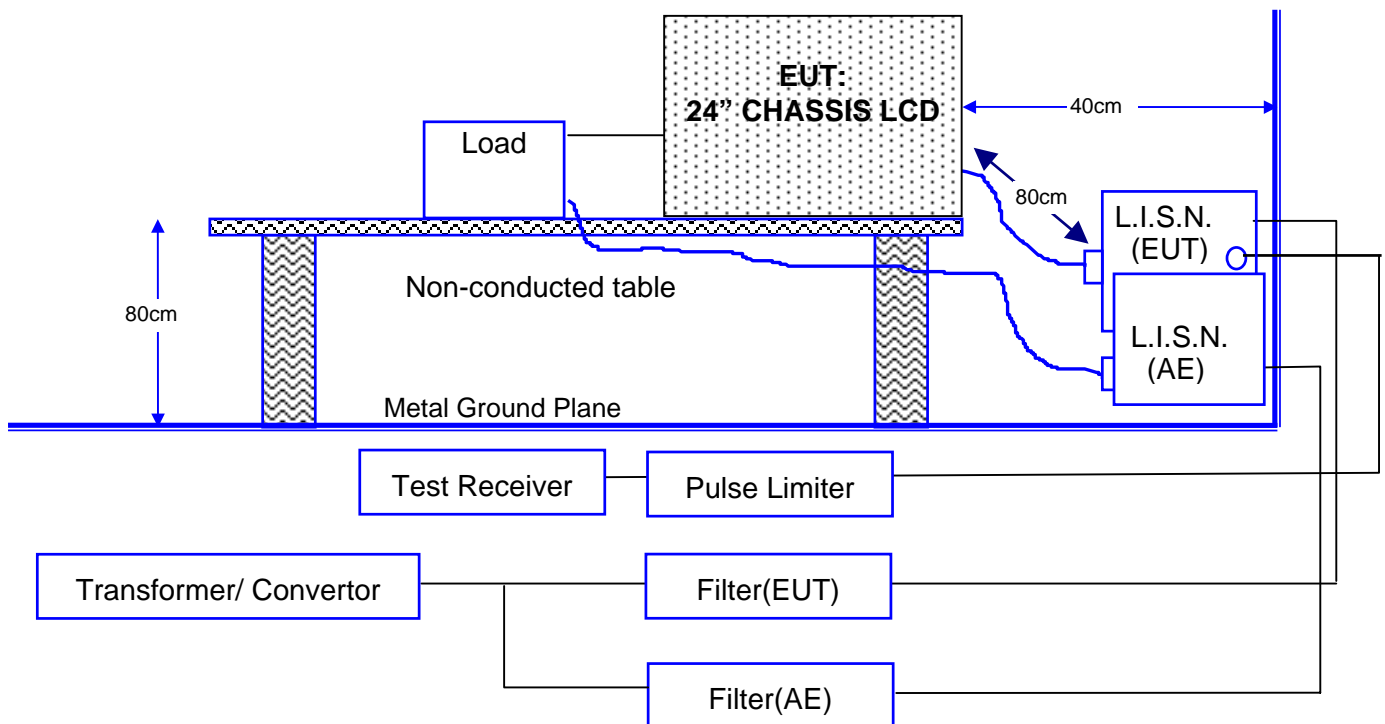
4.1 TEST EQUIPMENTS

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)	ROLF HEINE	NNB-2/16Z	99042	12/22/06
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	$\text{dB}\mu\text{V}$	μV	$\text{dB}\mu\text{V}$
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 ($\text{dB}\mu\text{V}$) = $20 \log$ RF Line Voltage (μV).
2. In the Above Table, the tighter limit applies at the band edges.

CISPR Limit

Frequency	Maximum RF Line Voltage $\text{dB}(\mu\text{V})$			
	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 50Ω .

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 "Win RFI" 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 24, 2007	Temperature	26
EUT	24" CHASSIS LCD	Humidity	60 %
Test Mode	Mode 1	Display Pattern	H Pattern
Test Power Supply	AC 120V/60Hz		

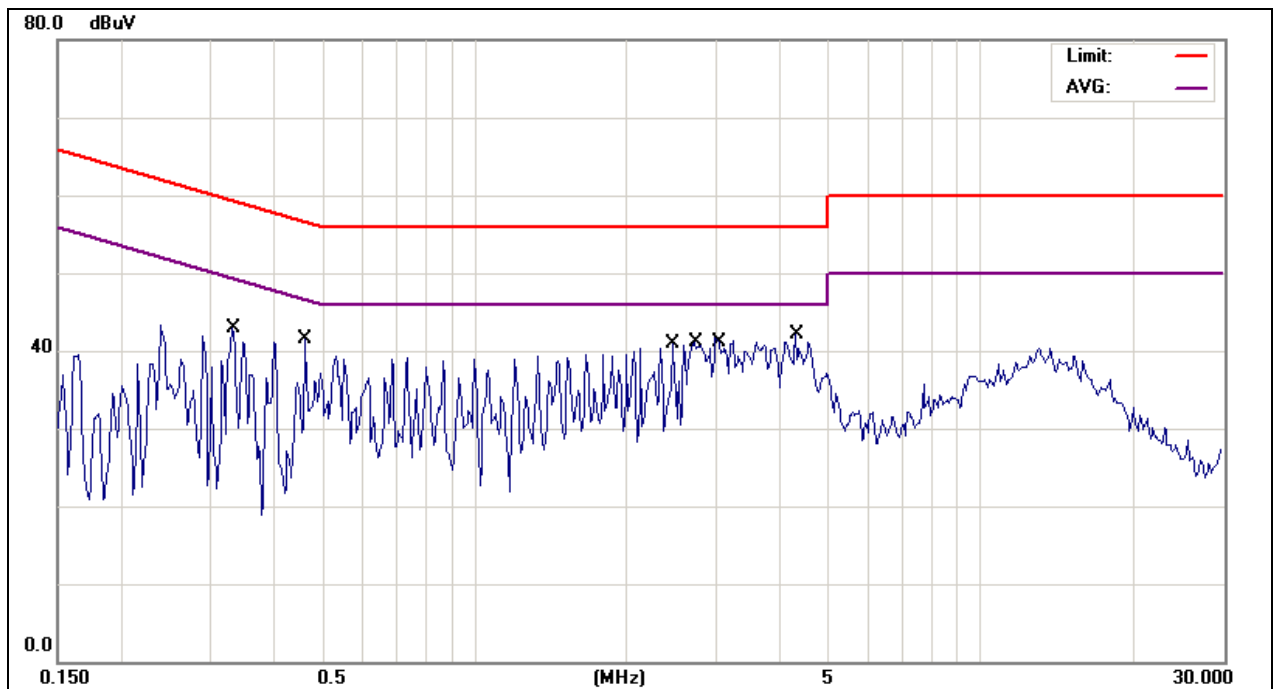
Line

No.	Frequency MHz	Reading Level dBμV	Factor dB	Measurement dBμV	Limit dBμV	Over Limit dB	Detector
1	0.3326	29.23	10.21	39.44	59.39	-19.95	QP
2	0.3326	18.76	10.21	28.97	49.39	-20.42	AVG
3	0.4611	25.66	10.24	35.90	56.67	-20.77	QP
4	0.4611	12.68	10.24	22.92	46.67	-23.75	AVG
5	2.4728	29.07	10.17	39.24	56.00	-16.76	QP
6	2.4728	24.37	10.17	34.54	46.00	-11.46	AVG
7	2.7380	29.62	10.19	39.81	56.00	-16.19	QP
8	2.7380	22.34	10.19	32.53	46.00	-13.47	AVG
9	3.0701	29.35	10.21	39.56	56.00	-16.44	QP
10	3.0701	23.18	10.21	33.39	46.00	-12.61	AVG
11	4.3451	26.85	10.22	37.07	56.00	-18.93	QP
12	4.3451	19.50	10.22	29.72	46.00	-16.28	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 24, 2007	Temperature	26
EUT	24" CHASSIS LCD	Humidity	60 %
Test Mode	Mode 1	Display Pattern	H Pattern
Test Power Supply	AC 120V/60Hz		

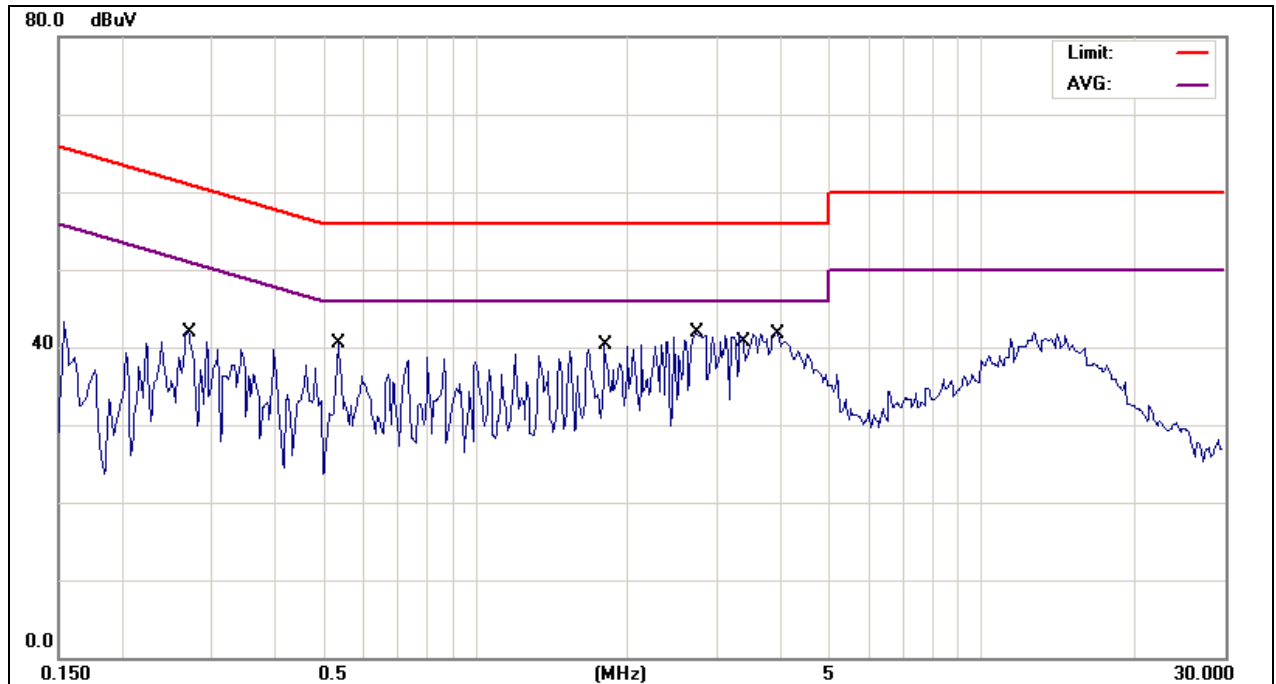
Neutral

No.	Frequency MHz	Reading Level dBμV	Factor dB	Measurement dBμV	Limit dBμV	Over Limit dB	Detector
1	0.2696	28.55	10.19	38.74	61.13	-22.39	QP
2	0.2696	22.26	10.19	32.45	51.13	-18.68	AVG
3	0.5353	26.96	10.24	37.20	56.00	-18.80	QP
4	0.5353	24.12	10.24	34.36	46.00	-11.64	AVG
5	1.7998	27.76	10.22	37.98	56.00	-18.02	QP
6	1.7998	23.61	10.22	33.83	46.00	-12.17	AVG
7	2.7374	29.84	10.25	40.09	56.00	-15.91	QP
8	2.7374	22.45	10.25	32.70	46.00	-13.30	AVG
9	3.4053	30.11	10.23	40.34	56.00	-15.66	QP
10	3.4053	24.11	10.23	34.34	46.00	-11.66	AVG
11	4.0004	27.00	10.18	37.18	56.00	-18.82	QP
12	4.0004	19.39	10.18	29.57	46.00	-16.43	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

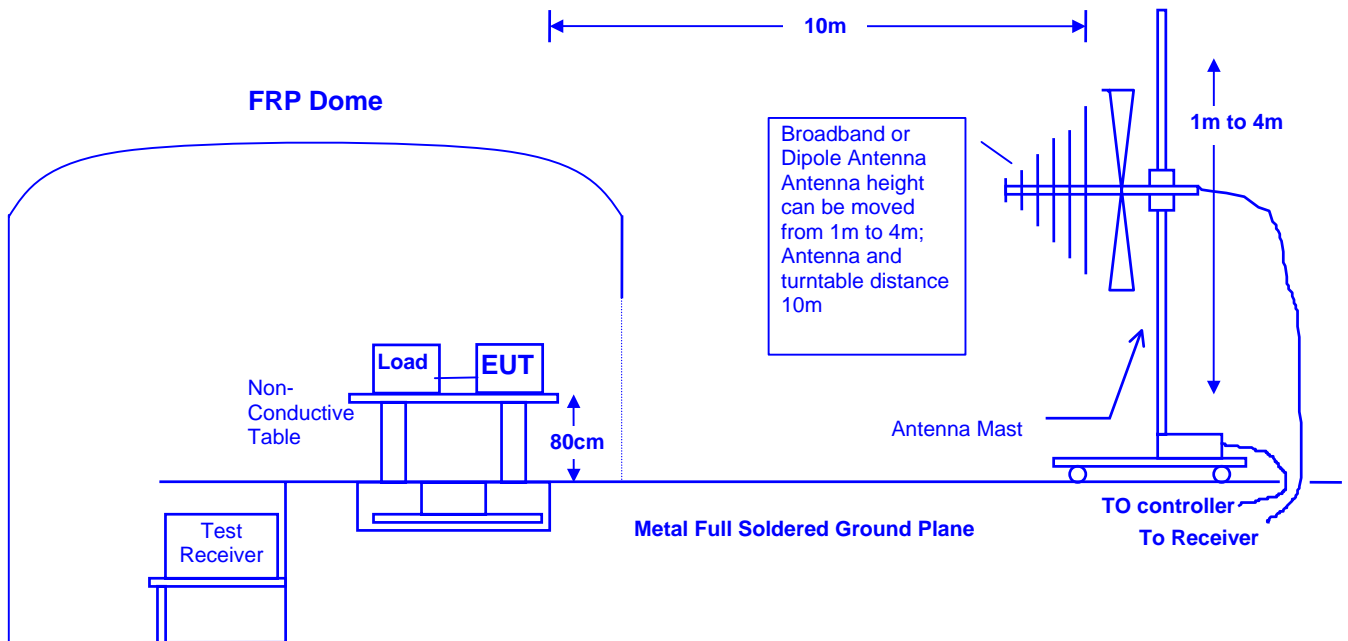
Item	Instrument	Manufacturer	Model	Serial No.	Last Cal. Date
1	TEST RECEIVER	R & S	ESVS10	8421122/001	04/17/07
2	SPECTRUM	ADVANTEST	U3751	161000225	01/02/07
3	PRE-AMPLIFIER	HP	8447D	2944A08610	09/11/06
4	BILOG Antenna	SCHAFFNER	CBL6112B	2833	11/24/06
5	RF Cable	GTK	N/A	GTK-E-A150-01	12/15/06
6	Open Site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

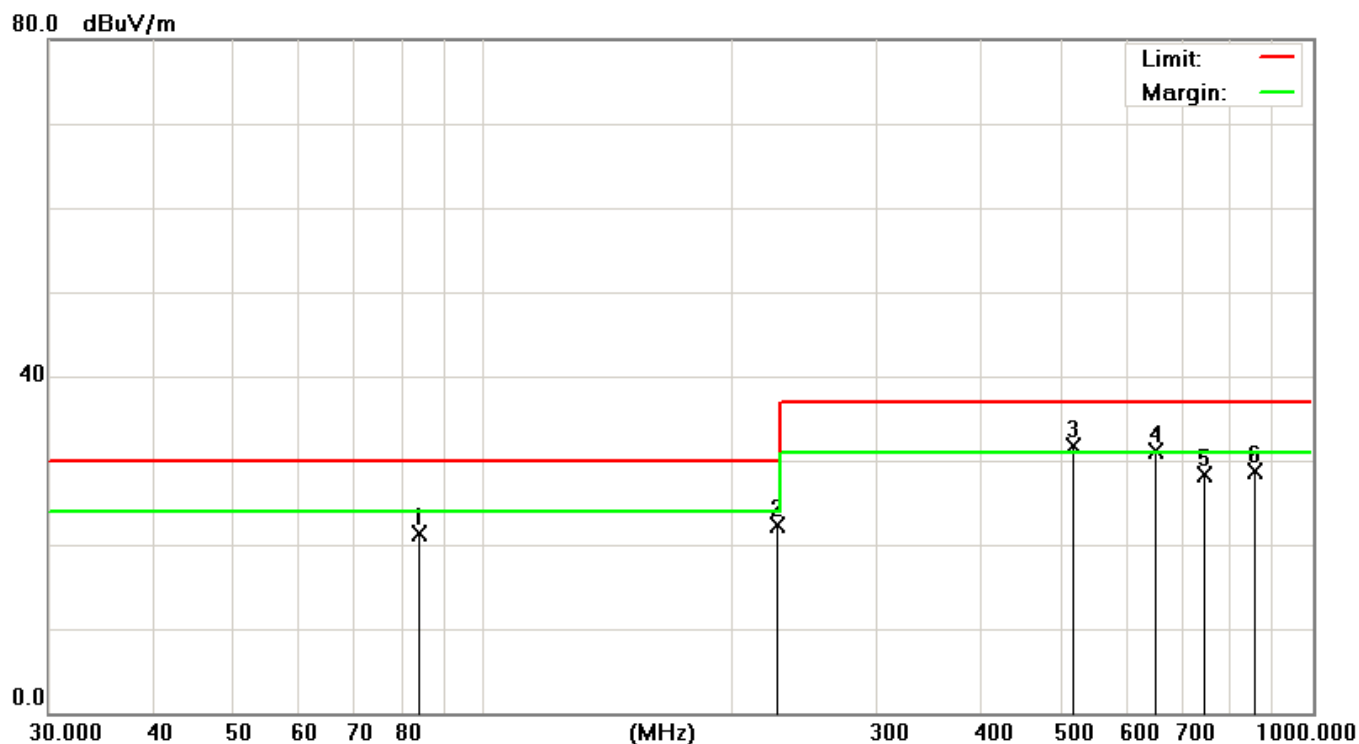
5.7 RADIATED EMISSIONS MEASUREMENT RESULTS

Date of Test	July 25, 2007	Temperature	26.5 deg/C
EUT	24" CHASSIS LCD	Humidity	58 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	10m at Horizontal	Frequency Range	30-1000MHz
Test Power Supply	AC 120V/60Hz		

No.	Frequency MHz	Reading Level dBμV	Factor dB	Measurement dBμV/m	Limit dBμV/m	Over Limit dB	Detector
1	83.9550	38.40	-17.16	21.24	30.00	-8.76	QP
2	227.5600	33.15	-10.87	22.28	30.00	-7.72	QP
3	517.2670	35.10	-3.33	31.77	37.00	-5.23	QP
4	650.6420	32.68	-1.59	31.09	37.00	-5.91	QP
5	746.3250	28.50	-0.27	28.23	37.00	-8.77	QP
6	859.1050	27.66	1.00	28.66	37.00	-8.34	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.

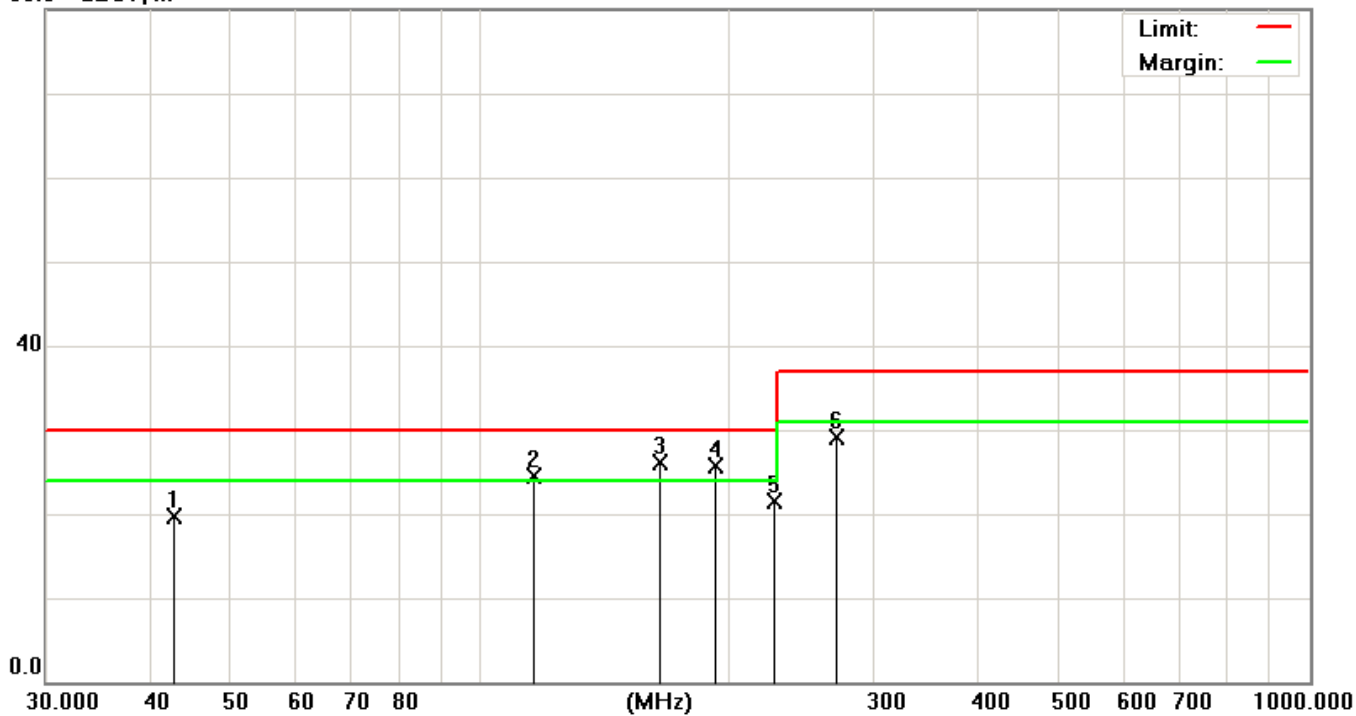
Date of Test	July 25, 2007	Temperature	26.5 deg/C
EUT	24" CHASSIS LCD	Humidity	58 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	10m at Vertical	Frequency Range	30-1000MHz
Test Power Supply	AC 120V/60Hz		

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	42.8875	34.45	-14.65	19.80	30.00	-10.20	QP
2	116.3955	36.40	-11.93	24.47	30.00	-5.53	QP
3	165.4055	38.54	-12.44	26.10	30.00	-3.90	QP
4	192.8450	38.51	-12.79	25.72	30.00	-4.28	QP
5	227.0100	32.48	-10.90	21.58	30.00	-8.42	QP
6	269.5885	37.58	-8.57	29.01	37.00	-7.99	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 dB μ V/m



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

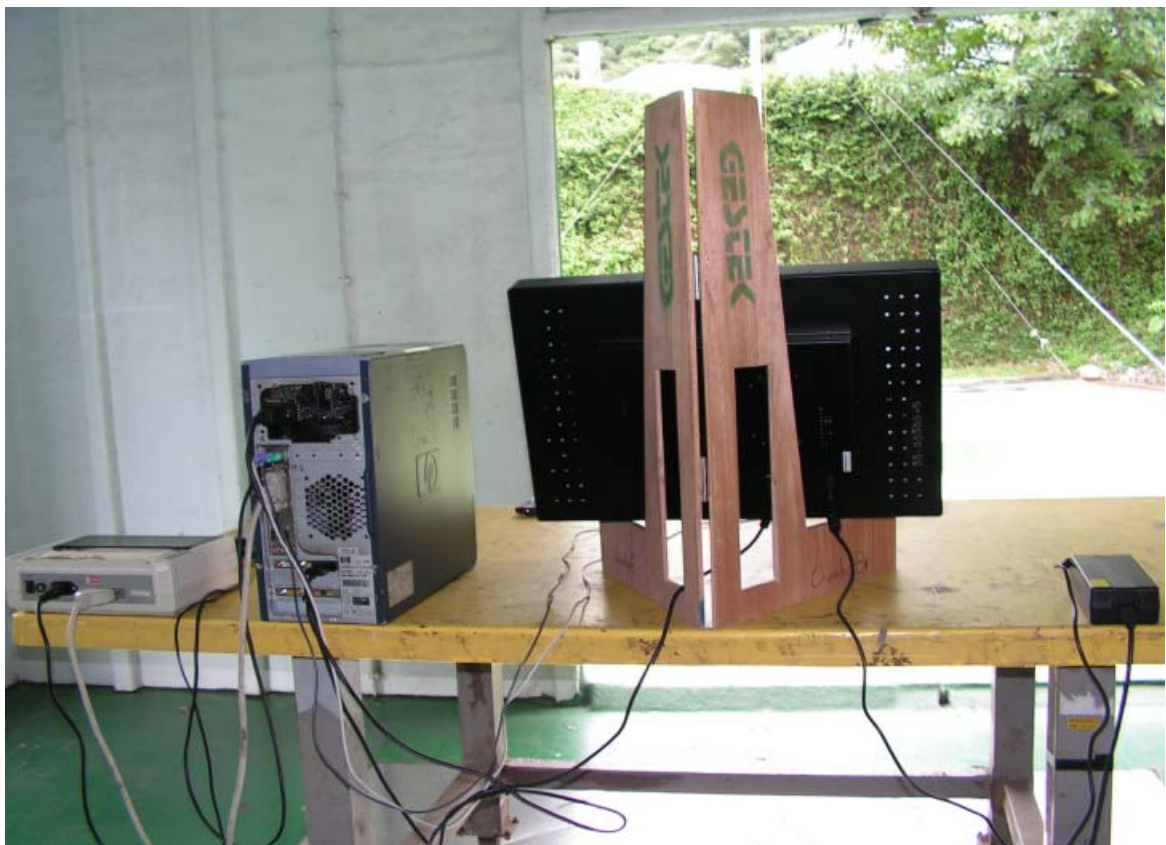
6.1 TEST PHOTOGRAPHS FOR CONDUCTION

Mode 1



6.2 TEST PHOTOGRAPHS FOR RADIATED

Mode 1



7. PHOTOGRAPHS FOR PRODUCT

1. Front View Of 24" CHASSIS LCD (EUT)



- 4. Front View Of Adapter + D-Sub cable
- 5. Back View Of Adapter + D-Sub cable



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)