

# EMI Test Report

On Model Name: TFT-LCD MONITOR

Model Number: 19T33

FCC ID Number: WW319T

Prepared for

Quasimoto Interactive, Inc.

According to FCC Part 15:2007, Class B

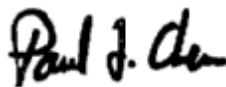
Test Report #: SHE-0811-10103-FCCID

Prepared by: May Wang

Reviewed by: Jawen Yin

QC Manager: Paul Chen

Test Report Released by:



Paul Chen

Nov. 24, 2008

Date

## **Test Location**

*Tests performed at ECMG Worldwide Certification Solution Inc. (China) in a Certified ANSI Semi-Anechoic Chamber and Shielded Room performed testing.*

*Test Site Location: Emitel(Shenzhen) Limited*

*Building2,171Meihua Road,Futian District  
Shenzhen, P.R. China.*

*Tel: 86-755-83182012*

*Fax: 86-755-83123810*

*FCC Registration Number: 746887*

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### **Opinions and Interpretations**

*This test report relates to the abovementioned equipment under test (EUT). Without the permission of ECMG Worldwide Certification Solution Inc. Test Lab this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark on this or similar products. The manufacturer has sole responsibility of continued compliance of the device.*

### **Statement of Measurement Uncertainty**

*The data and results referenced in the document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities that can account for a nominal measurement error. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.*

### **Administrative Data**

*Test Sample* : TFT-LCD MONITOR

*Model Number* : 19T33

*Model Tested* : 19T33

*Date Tested* : November 18, 2008

*Applicant* : Quasimoto Interactive, Inc.  
471 E. Bergey St. Suite 1, Wadsworth, OH 44281

*Telephone* : 330-331-4515 ext. 303

*Fax* : 330-598-1835

*Manufacturer* : SHENZHEN KTC COMPUTER TECHNOLOGY CO.,LTD  
Northern Wuhe Road, Gangtou,Buji,  
Longgang,Shenzhen, China

*Telephone* : 86-755-33615555

*Fax* : 86-755-33615999

### **EUT Description**

*Quasimoto Interactive, Inc. model tested 19T33 (referred to as the EUT in this report) is a TFT-LCD MONITOR.*

### **Technology Specification:**

Monitor type: TFT-LCD MONITOR  
Max. resolution : 1440\*900 60Hz (VGA)  
Power adapter: 100V-240Vac, 60Hz/50Hz  
consumption:  $\leq 45W$

AC adapter information:

Model number: K-1205

Serial number: P573-87P082-00872

Input: 100V-240Vac, 60Hz/50Hz

Output: 12V DC = 4.2A

**Note:** The adapter with 2 ferrite cores.

The EUT is a TFT-LCD MONITOR which input/output ports as follows:

- (1) One VGA Port: Connected with PC (unshided,with 2 ferrite cores)
- (2) One DC In Port: Connected with Power

Note : Other I/O Ports and antenna port are void(Optional ports).

Please refer to user's manual for detail.

### **Operating Mode of EUT**

Let the EUT worked in test mode (Running "H" Pattern 640\*480@60Hz Running "H" Pattern 1024\*768@60Hz Running "H" Pattern 1440\*900@60Hz) and measured it.

The EUT's Max. resolution bandwidth is 1440\*900 60Hz VGA, the highest frequency which the EUT operates is between 108-500MHz, so the Upper frequency of radiated emission measurement range is up to 2GHz, other resolution bandwidth that operates frequency is below 108MHz, so the Upper frequency of radiated emission measurement range is up to 1GHz.

## **Test Summary**

*The Electromagnetic Compatibility requirements on model 19T33 for this test are stated below. All results listed in this report relate exclusively to this above-mentioned model as the Equipment Under Test. This report confers no approval or endorsement upon any other component, host or subsystem used in the test set-up.*

<b>Emission Tests</b>				
<b>Specifications</b>	<b>Description</b>	<b>Test Results</b>	<b>Test Point</b>	<b>Remark</b>
<i>FCC Part 15.107 Class B per ANSI C63.4 2003</i>	<i>Conducted Emission</i>	<i>Passed</i>	<i>AC Input Port</i>	<i>Attachment 1</i>
<i>FCC Part 15.109 Class B per ANSI C63.4 2003</i>	<i>Radiated Emission</i>	<i>Passed</i>	<i>Enclosure</i>	<i>Attachment 2</i>

### ***Test Mode Justification***

*This device complies with Part 15 of the FCC rules. Operations 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.*

### ***Equipment Modification***

*Any modifications installed previous to testing by Quasimoto Interactive, Inc. will be incorporated in each production model sold or leased in United States.*

*There were no modifications installed by ECMG Worldwide Certification Solution Inc. (China) test personnel.*



## ***EUT Sample Photos***



***EUT Front View***



***EUT Rear View***



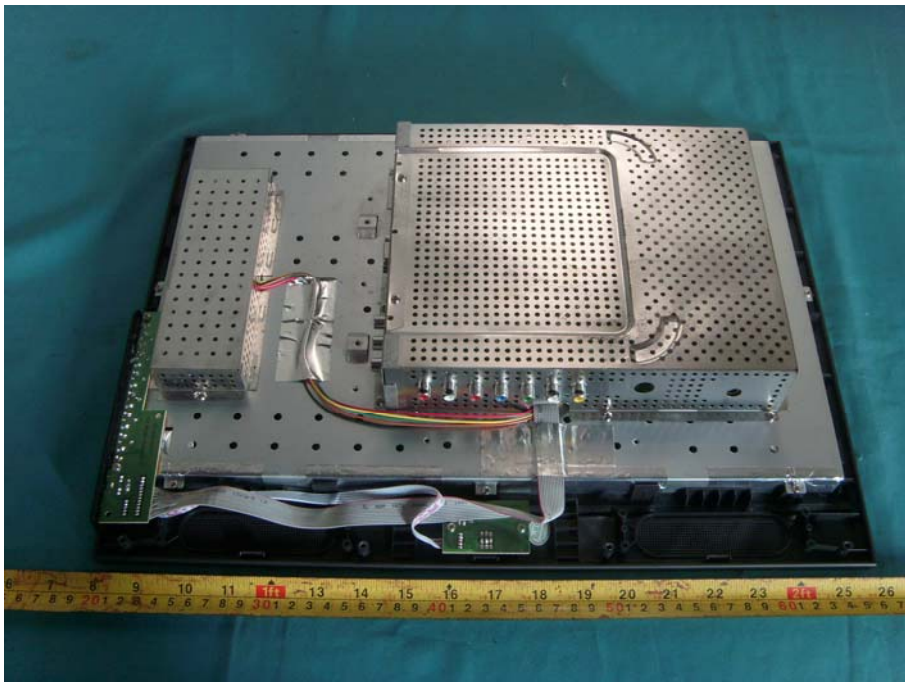
***EUT Side View (1)***



***EUT Side View (2)***



***EUT Key View***



***EUT Uncovered View (1)***



***EUT Uncovered View (2)***

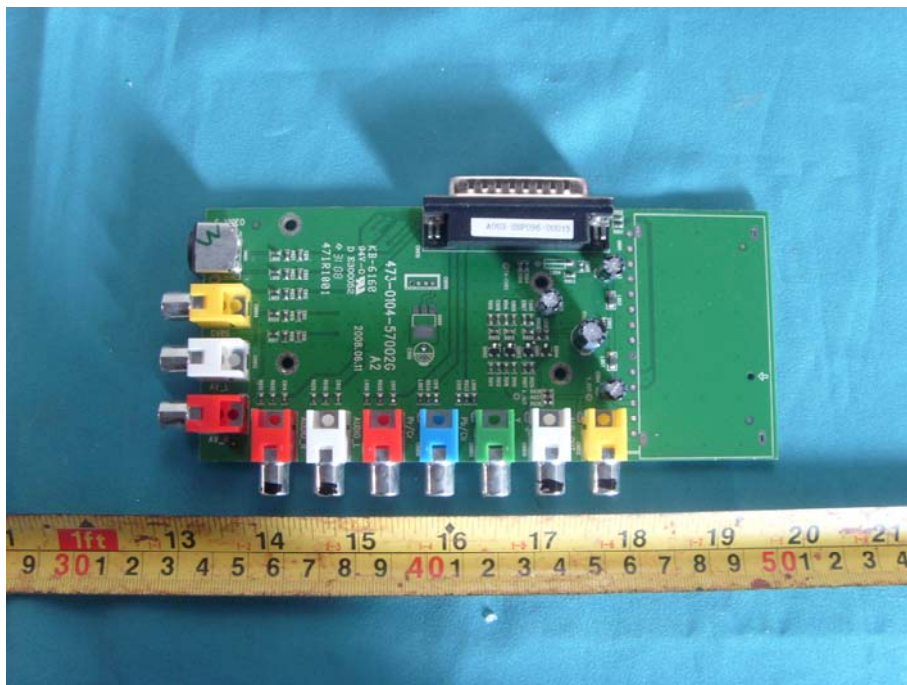


***LCD Front View***

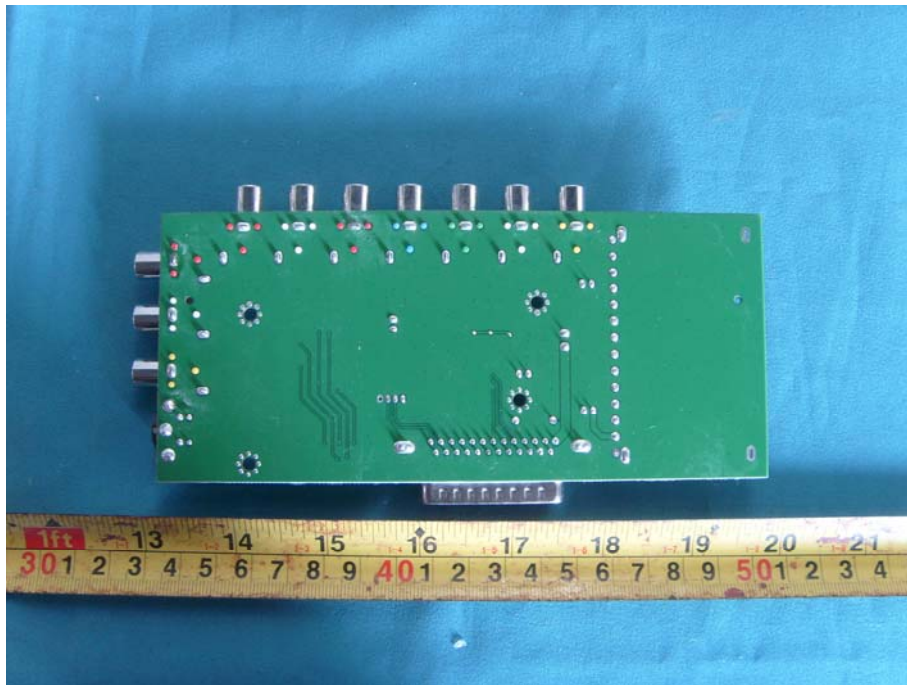




**LCD Rear View**



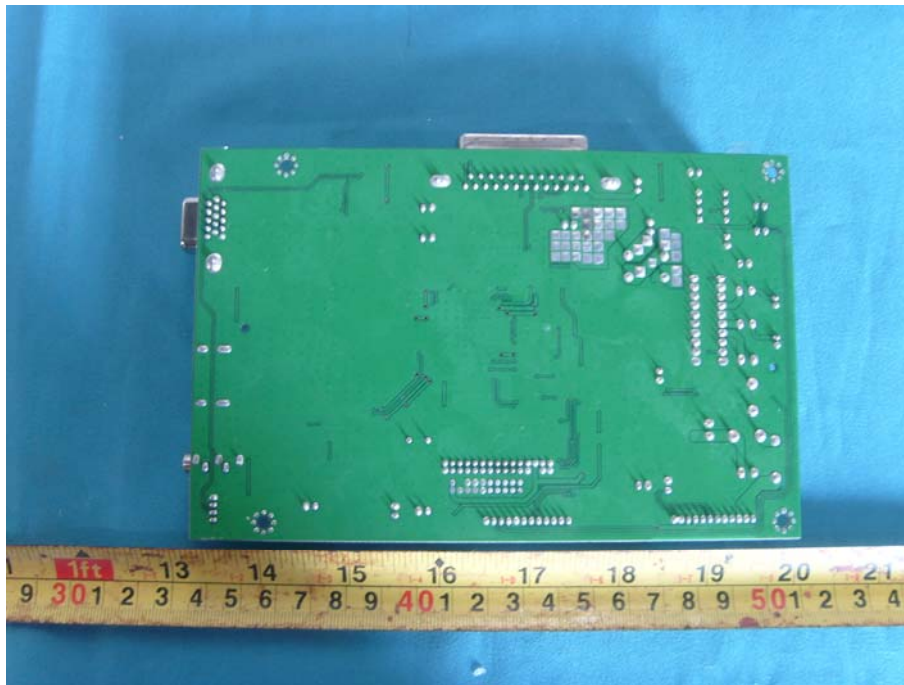
**Main Board #1 Front View**



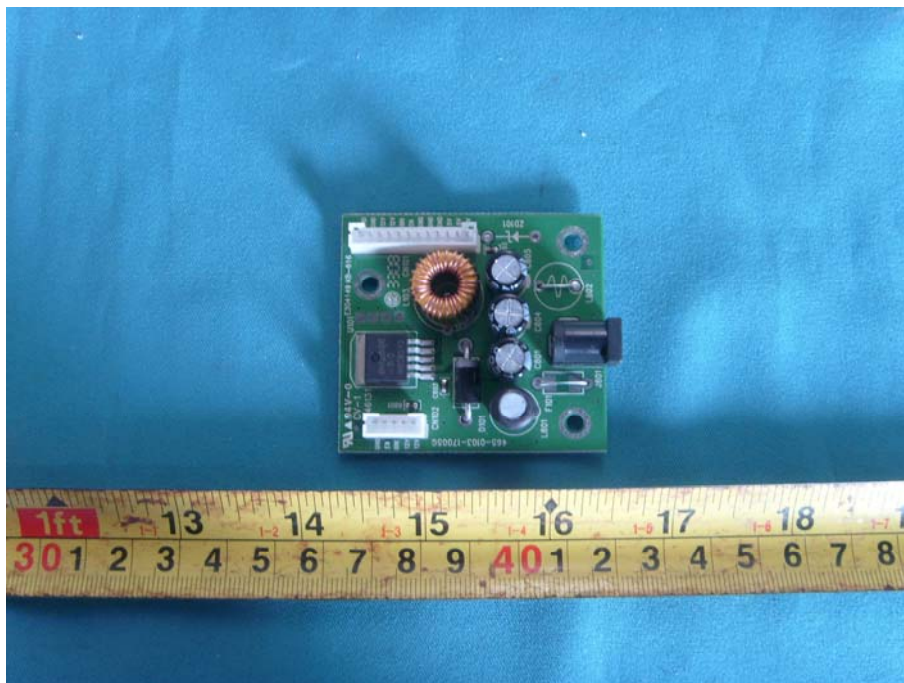
**Main Board #1 Rear View**



**Main Board #2 Front View**

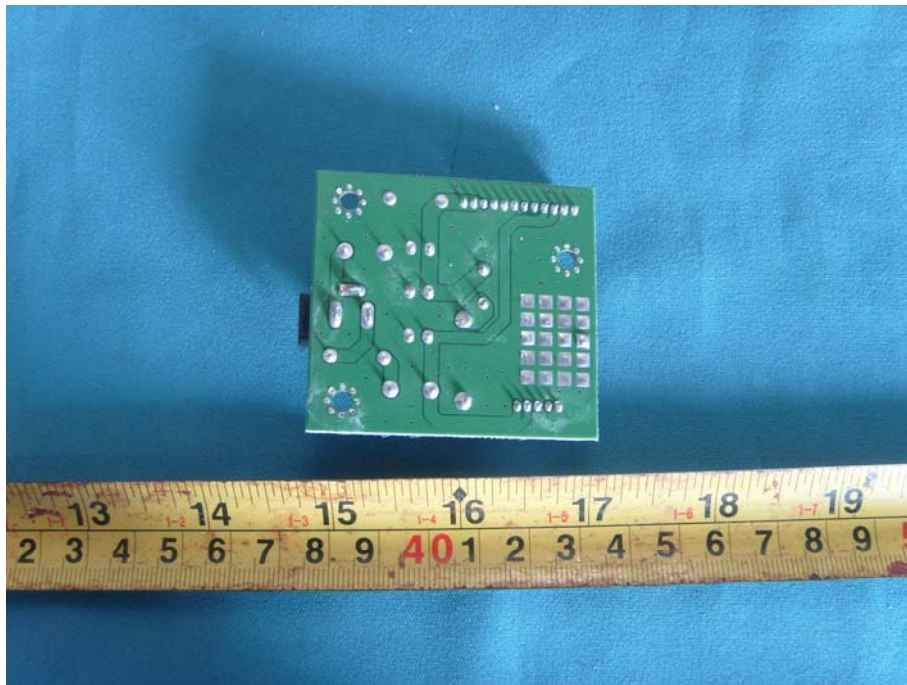


**Main Board #2 Rear View**

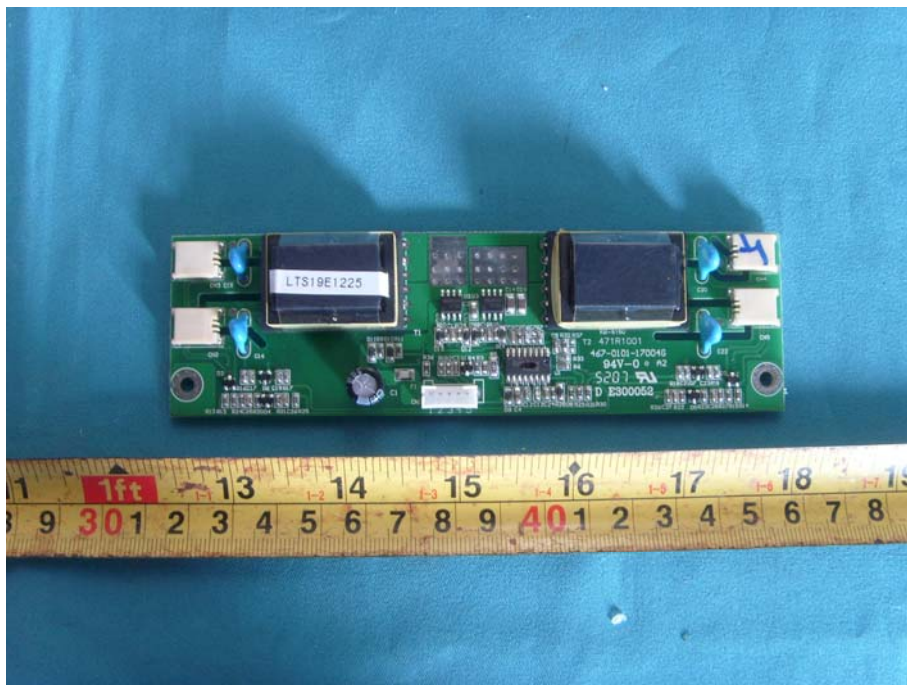


**Power Board Front View**



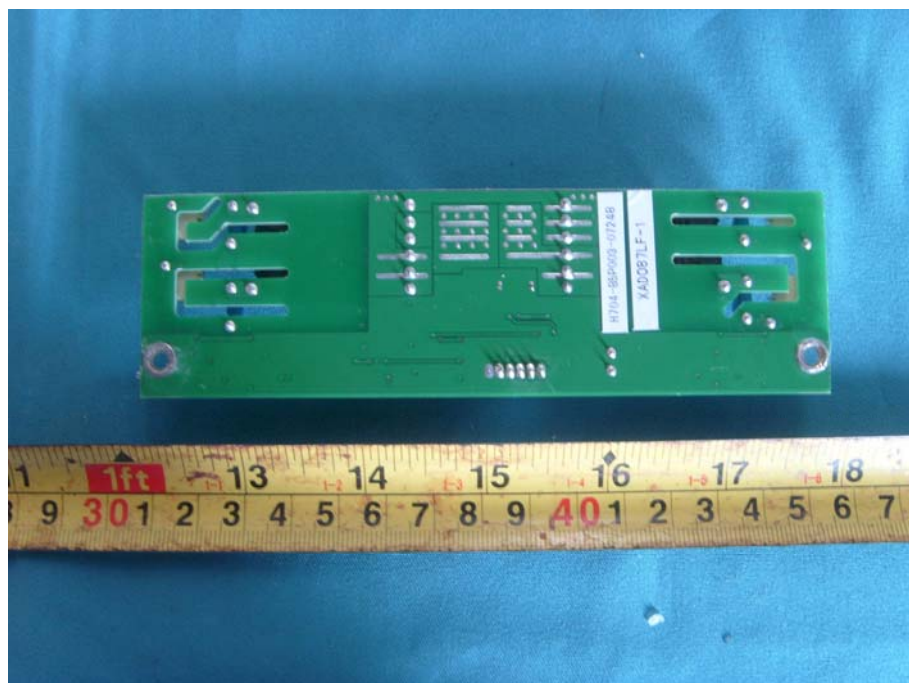


**Power Board Rear View**



**High Voltage Board Top View**

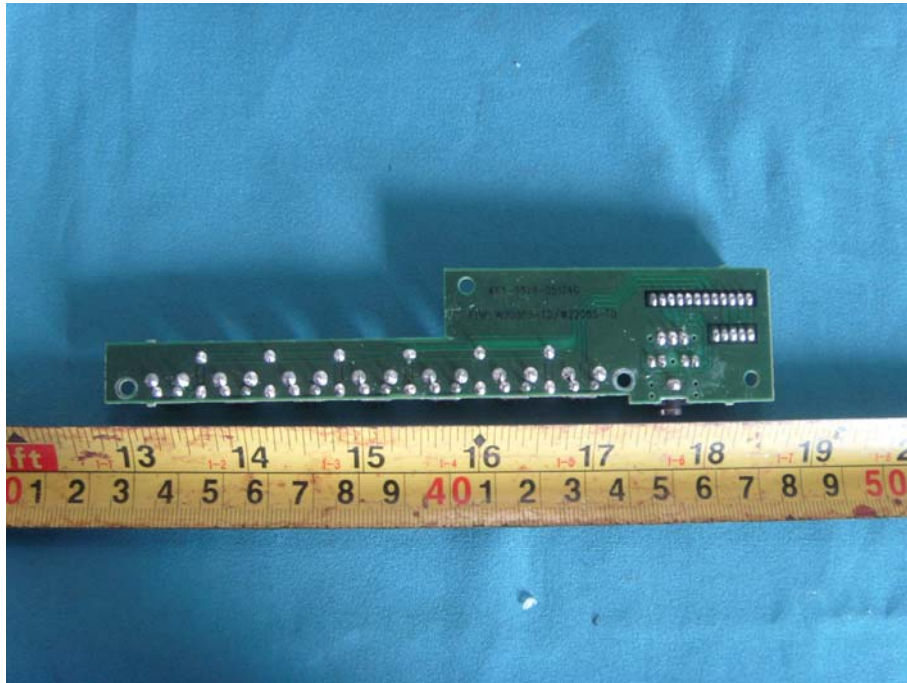




### High Voltage Board Rear View



### Key Board Front View



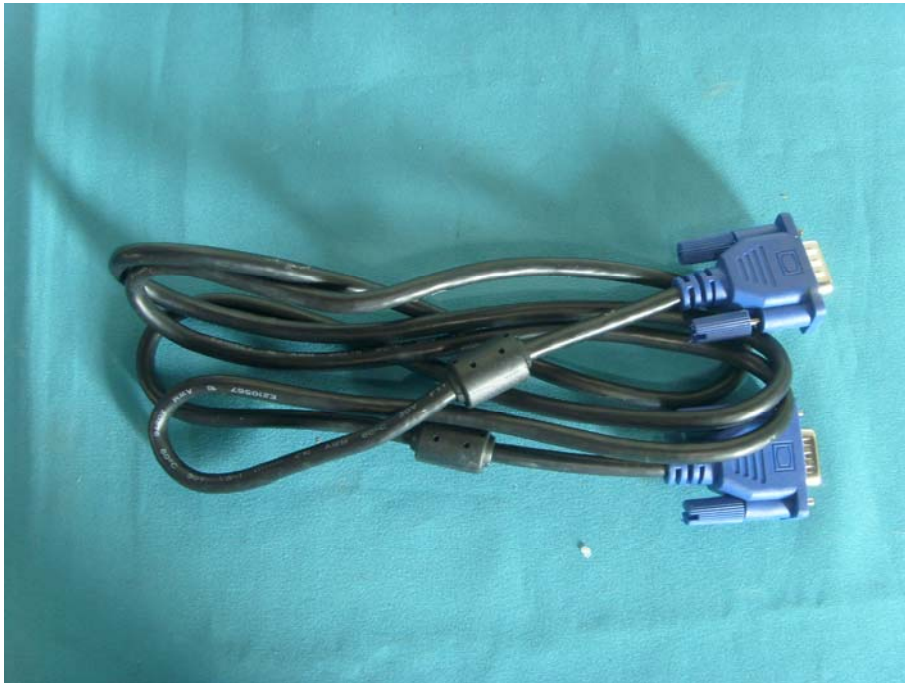
**Key Board Rear View**



**Remote Control View**



***Power Cable View***



***VGA Cable View(With two ferrite cores)***



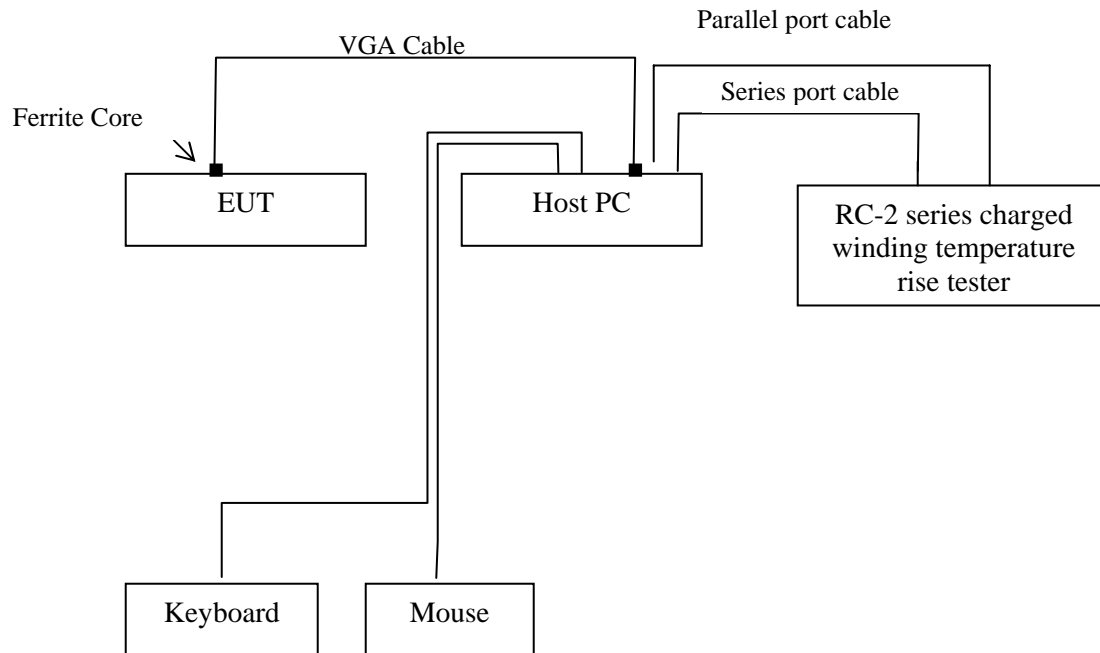


***AC adapter View(With two ferrite cores)***

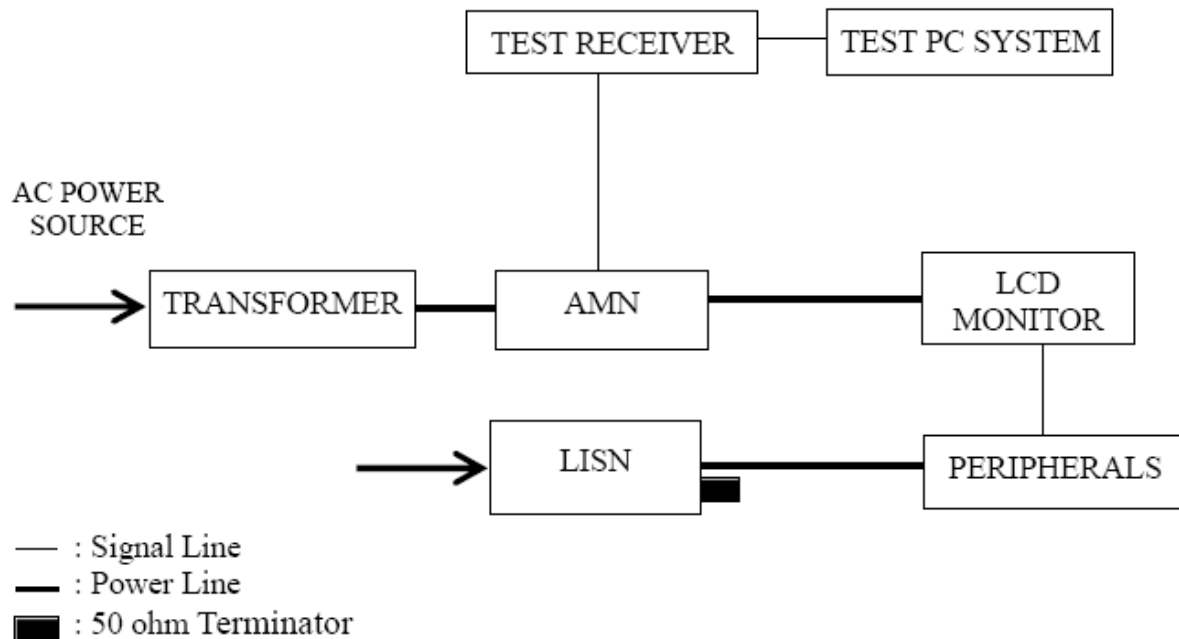
## Test System Details

EUT					
Model Number:	19T33				
Model Tested:	19T33				
Description:	TFT-LCD MONITOR				
Manufacture:	SHENZHEN KTC COMPUTER TECHNOLOGY CO., LTD				
Support Equipment					
Description	Model Number	Serial Number	Manufacturer		
Host PC	N/A	N/A	Dell		
Keyboard	SK-/815	F145614	Dell		
Mouse	N/A	F0800NEN	Dell		
RC-2 series charged winding temperature rise tester	RC-2	04-23/38-05-005	WeiBo		
Cable Description					
Description	From	To	Length (Meters)	Shielded (Y/N)	Ferrite (Y/N)
AC Power Cable	EUT	Plug	1.5	N	N
VGA Cable	EUT	Host PC	1.5	N	Y
PC Power cable	Host PC	Plug	1.8	N	N
Keyboard cable	Keyboard	Host PC	1.8	N	N
Mouse Cable	Mouse	Host PC	1.8	N	N
Series port cable	RC-2	Plug	1.8	N	N
Parallel port cable	RC-2	Plug	1.8	N	N
Note : The “EUT” indicated TFT-LCD Monitor.					

## Configuration of Tested System



## Block Diagram of Conducted Emissions Test



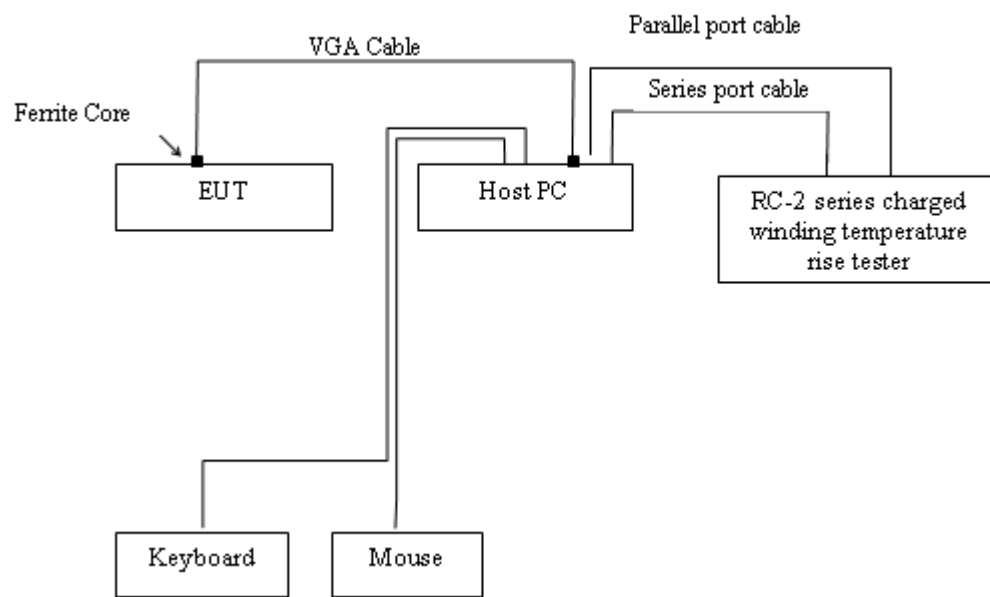
## Conducted Disturbance Test Set-up photograph

FCC Test Report #: SHE-0811-10103-FCCID

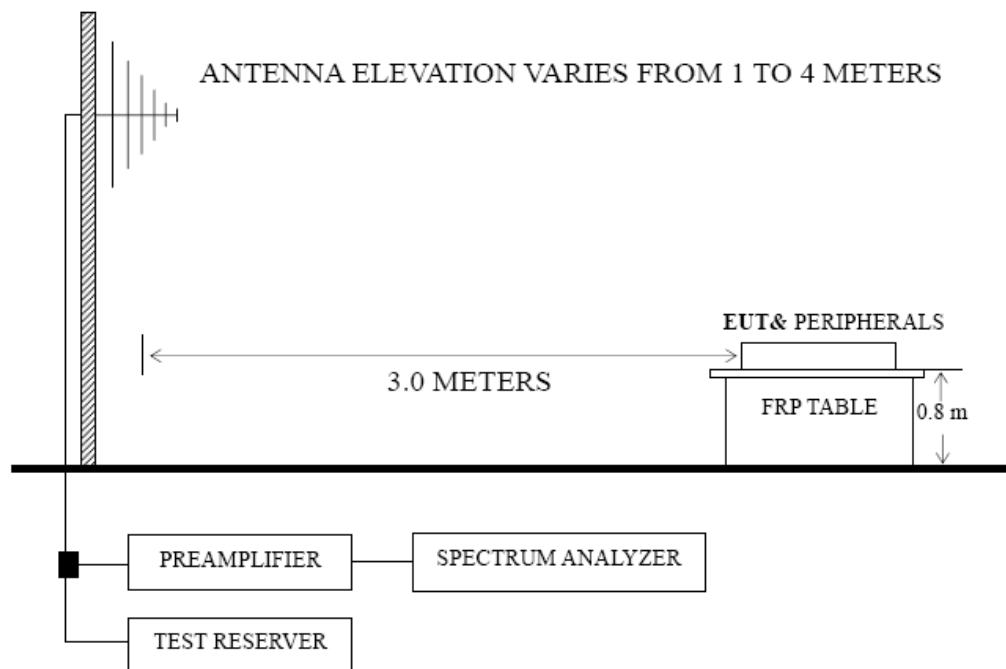
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*Block diagram of Radiated Emissions Test*



■ : 50 ohm Coaxial Switch

### *Radiated Emission Test Set up Photograph*

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**ATTACHMENT 1 - CONDUCTED EMISSION TEST RESULTS**

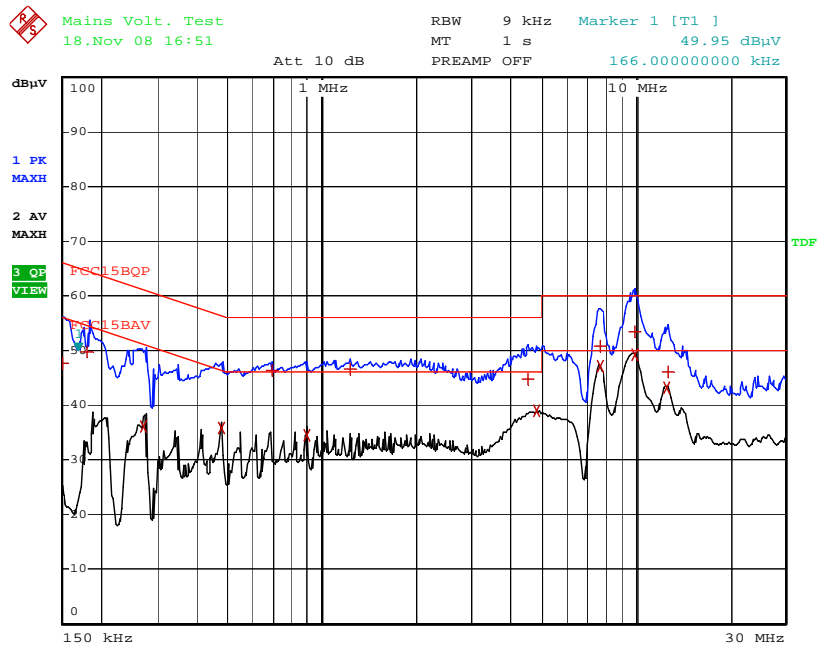
<b>CLIENT:</b>	Quasimoto Interactive, Inc.	<b>TEST STANDERD:</b>	FCC Part 15: 2007, Class B
<b>MODEL NUMBERS:</b>	19T33	<b>PRODUCT:</b>	TFT-LCD Monitor
<b>EUT MODEL:</b>	19T33	<b>EUT DESIGNATION:</b>	Information Technology Equipment
<b>TEMPERATURE:</b>	23°C	<b>HUMIDITY:</b>	47%RH
<b>ATM PRESSURE:</b>	101.0kPa	<b>GROUNDING:</b>	Through AC Power Cord
<b>TESTED BY:</b>	May Wang	<b>DATE OF TEST:</b>	November 18, 2008
<b>TEST REFERENCE:</b>	ANSI C63.4: 2003		
<b>TEST PROCEDURE:</b>	The EUT was set up according to the guideline of ANSI C63.4: 2003 for conducted emissions. The measurement was using a AMN on each line and an EMI receiver peak scan was made at the frequency measurement range. The six highest significant peaks were then marked, and these signals were then quasi-peaked and averaged. The frequency range investigated was from 150KHz to 30MHz.		
<b>TESTED RANGE:</b>	150kHz to 30MHz		
<b>TEST VOLTAGE:</b>	120VAC / 60Hz		
<b>RESULTS:</b>	<p>According to the recorded data in following data table, the EUT complied with the <u>FCC PART 15: 2007 Class B</u>, with the worst margin reading of:</p> <p><i>For VGA Mode 640*480@60Hz:</i> <b>-1.82 dB at 7.626 MHz</b> in the <b>Neutral</b> conductor model</p> <p><i>For VGA Mode 1024*768@60Hz:</i> <b>-1.93 dB at 3.122 MHz</b> in the <b>Line</b> conductor model</p> <p><i>For VGA Mode 1440*900@60Hz:</i> <b>-2.03 dB at 2.246 MHz</b> in the <b>Line</b> conductor model</p> <p>The test results relate only to the equipment under test provided by client.</p>		
<b>CHANGES OR MODIFICATIONS:</b>	There were no modifications installed by ECMG Worldwide Certification Solution Inc. (China) test personnel.		
<b>M. UNCERTAINTY:</b>	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp $\pm 2.6$ dB		



### **15.107 Conducted limit:**

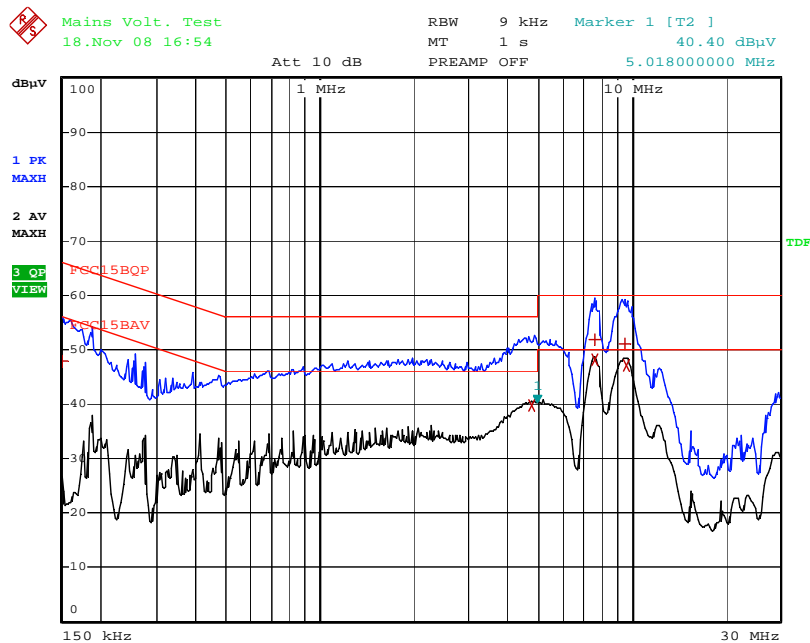
*Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.*

<i>Frequency of Emission (MHz)</i>	<i>Conducted Limit (dB<math>\mu</math>V)</i>	
	<i>Quasi-Peak</i>	<i>Average</i>
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
1) The lower limit shall apply at the transition frequencies.		
2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz		



Date: 18.NOV.2008 16:51:25

### Line L Conducted Emission Graph(VGA Mode 640\*480@60Hz)



Date: 18.NOV.2008 16:54:22

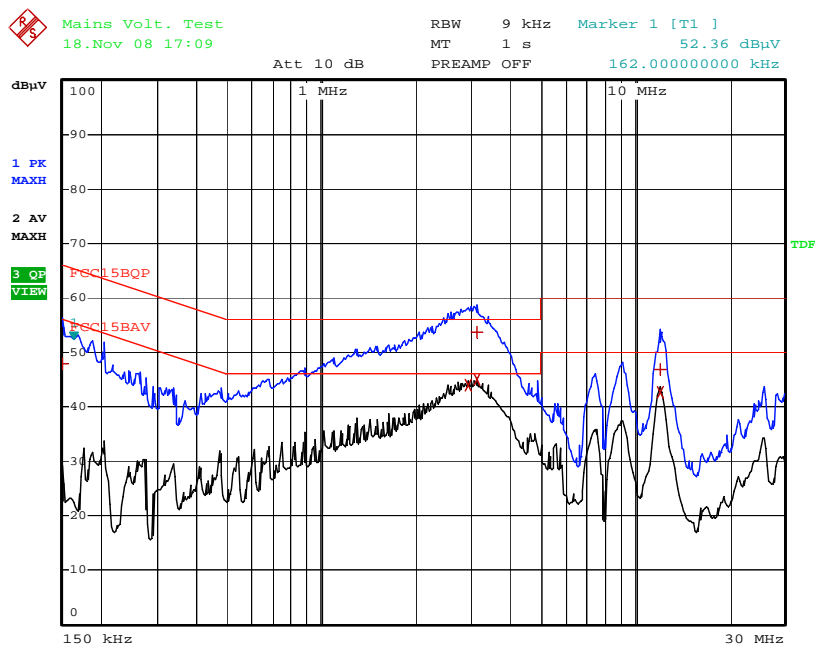
### Line N Conducted Emission Graph(VGA Mode 640\*480@60Hz)

FCC Test Report #: SHE-0811-10103-FCCID

Prepared for Quasimoto Interactive, Inc.

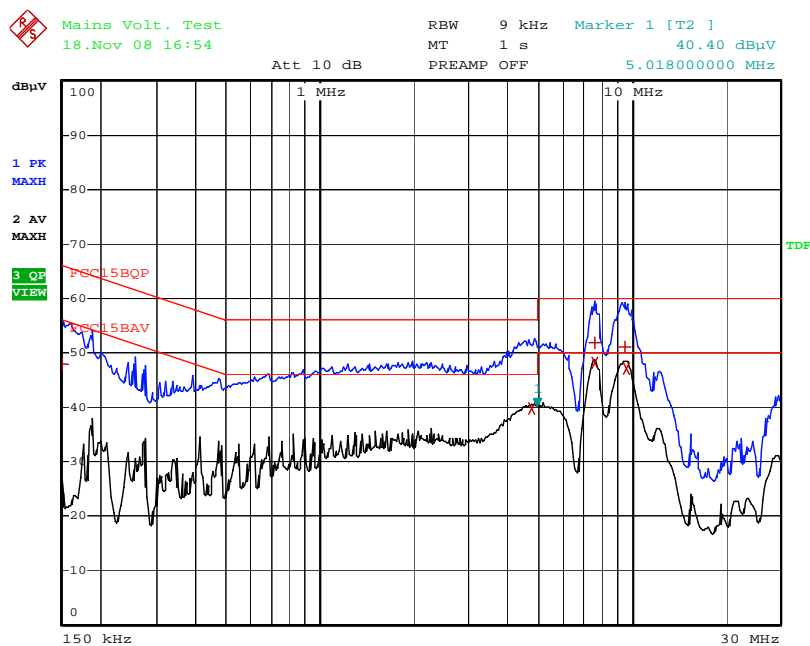
Prepared by ECMG Worldwide Certification Solution Inc.

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Date: 18.NOV.2008 17:09:55

### Line L Conducted Emission Graph(VGA Mode 1024\*768@60Hz)



Date: 18.NOV.2008

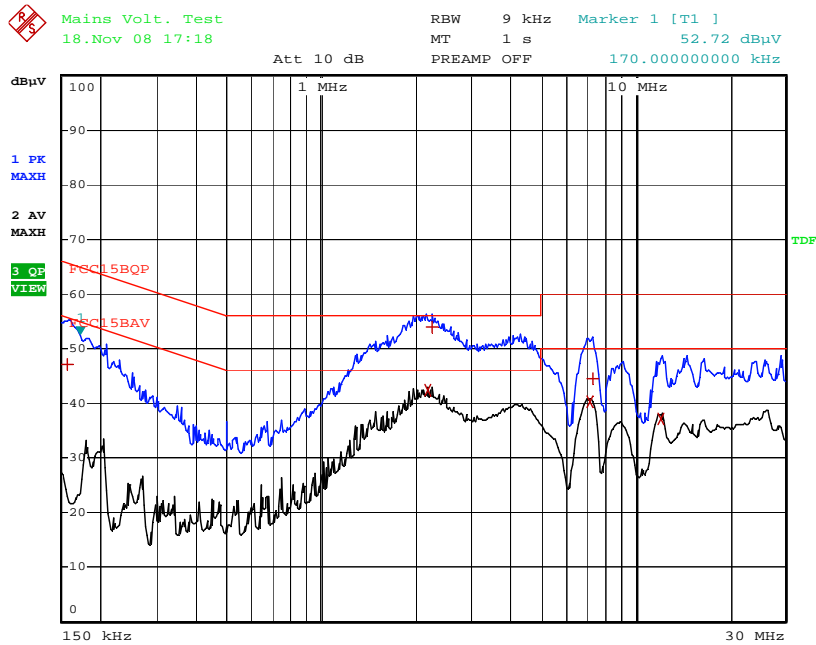
### Line N Conducted Emission Graph(VGA Mode 1024\*768@60Hz)

FCC Test Report #: SHE-0811-10103-FCCID

Prepared for Quasimoto Interactive, Inc.

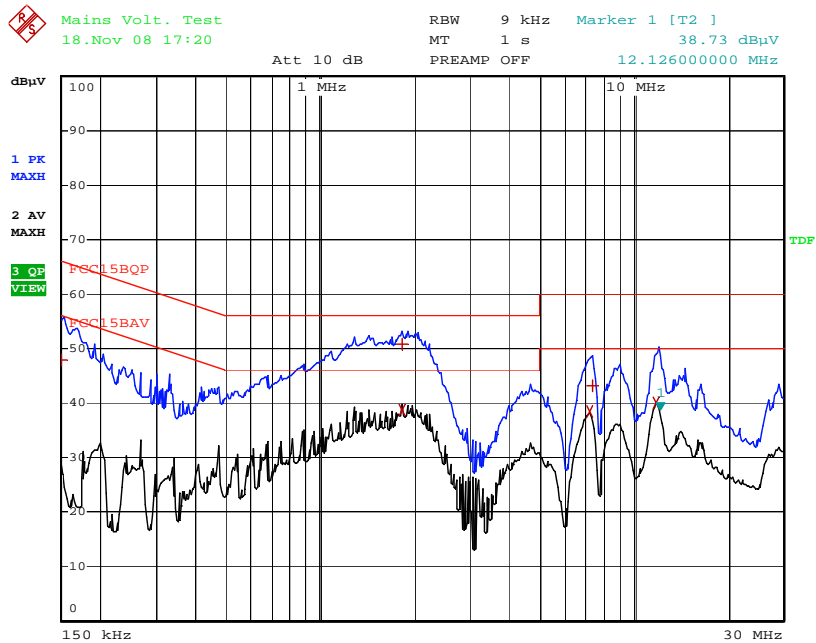
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Date: 18.NOV.2008 17:18:04

### Line L Conducted Emission Graph(VGA Mode 1440\*900@60Hz)



Date: 18.NOV.2008 17:20:39

### Line N Conducted Emission Graph(VGA Mode 1440\*900@60Hz)

FCC Test Report #: SHE-0811-10103-FCCID

Prepared for Quasimoto Interactive, Inc.

Prepared by ECMG Worldwide Certification Solution Inc.

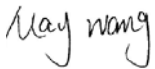
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**Test Data :**

Line	Frequency (MHz)	Corrected QP Level (dBμV)	Limits QP (dBμV)	Margin QP (dB)	Frequency (MHz)	Corrected AV Level (dBμV)	Limits AV (dBμV)	Margin QP (dB)
<b>VGA Mode(640*480 60Hz)</b>								
L	7.838	49.68	60.0	-10.32	7.834	45.36	50.0	-4.64
L	9.71	51.62	60.0	-8.38	9.842	48.07	50.0	-1.93
N	0.150	47.77	60.0	-12.23	4.818	39.63	46.0	-6.37
N	7.646	51.94	60.0	-8.06	7.626	48.18	50.0	-1.82
N	9.566	51.13	60.0	-8.87	9.642	47.17	50.0	-2.83
<b>VGA Mode(1024*768 60Hz)</b>								
L	0.150	47.78	66.0	-18.22	2.934	43.94	46.0	-2.06
L	3.146	53.69	56.0	-2.31	3.122	44.07	46.0	-1.93
L	12.038	46.73	60.0	-13.27	12.038	42.74	50.0	-7.26
N	0.150	40.77	60.0	-19.23	4.818	35.63	46.0	-10.37
N	7.646	53.94	60.0	-6.06	7.626	42.18	50.0	-7.82
N	9.566	55.13	60.0	-4.87	9.642	45.17	50.0	-4.83
<b>VGA Mode(1440*900 60Hz)</b>								
L	0.158	46.42	65.0	-18.58	2.178	42.51	46.0	-3.49
L	2.246	53.93	56.0	-2.06	7.158	40.22	50.0	-9.78
L	7.362	44.44	60.0	-15.56	12.114	37.01	50.0	-12.98
N	0.150	47.97	66.0	-18.03	1.834	38.61	46.0	-7.38
N	1.834	50.84	56.0	-5.16	7.266	38.56	50.0	-11.44
N	7.418	43.06	-60.0	-16.94	11.83	40.06	50.0	-9.94
1) All readings are using a bandwidth of 9 kHz, with a 30 ms sweep time. A video filter was not used. 2) "QP" means "Quasi-Peak" values, "AV" means "Average" values.								

### ***Test Equipment List :***

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Interval
Test Receiver	ESP13	Rohe & Schwarz	04-02/03-06-002	01/22/2008	01/21/2009
LISN	ESH2-Z5	Rohe & Schwarz	04-02/03-06-001	01/22/2008	01/21/2009
Coaxial Calbe	C009	Emitel	N/A	01/22/2008	01/21/2009
Coaxial Calbe	C010	Emitel	N/A	01/22/2008	01/21/2009
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated.					

**SIGNED BY:**   
**ENGINEER**

**REVIEWED BY:**   
**SENIOR ENGINEER**



***Conducted Emission Test Set-up -Front View***



***Conducted Emission Test Set-up -Side View***

**ATTACHMENT 2 - RADIATED EMISSION TEST RESULTS**

<b>CLIENT:</b>	Quasimoto Interactive, Inc.	<b>TEST STANDERD:</b>	FCC Part 15, Class B
<b>MODEL NUMBERS:</b>	19T33	<b>PRODUCT:</b>	TFT-LCD Monitor
<b>EUT MODEL:</b>	19T33	<b>EUT DESIGNATION:</b>	Information Technology Equipment
<b>TEMPERATURE:</b>	23°C	<b>HUMIDITY:</b>	47%RH
<b>ATM PRESSURE:</b>	101.0kPa	<b>GROUNDING:</b>	Through AC Power Cord
<b>TESTED BY:</b>	May Wang	<b>DATE OF TEST:</b>	November 18, 2008
<b>TEST REFERENCE:</b>	ANSI C63.4: 2003		
<b>TEST PROCEDURE:</b>	<p>The EUT was set up according to the guidelines of ANSI C63.4: 2003 for radiated emissions. An EMI receiver peak scan was made at the frequency measurement range (pre-scan) in an Anechoic chamber. Signal discrimination was then performed and the significant peaks marked. These peaks were then quasi-peaked in the frequency range of 30 MHz to 1GHz at an Anechoic chamber. measurement are based on Peak value and Average value detector above 1GHz.,the bandwidth of Test Receiver was set at 1MHz .The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor are given as follows:</p> <p><math>FS = RA + AF + CF - AG</math></p> <p>Where: FS = Field Strength</p> <p>RA = Receiver Amplitude</p> <p>AF = Antenna Factor</p> <p>CF = Cable Attenuation Factor</p> <p>AG = Amplifier Gain</p>		
<b>TESTED RANGE:</b>	30MHz to 2,000MHz		
<b>TEST VOLTAGE:</b>	120VAC / 60Hz		

Continue on to next page...

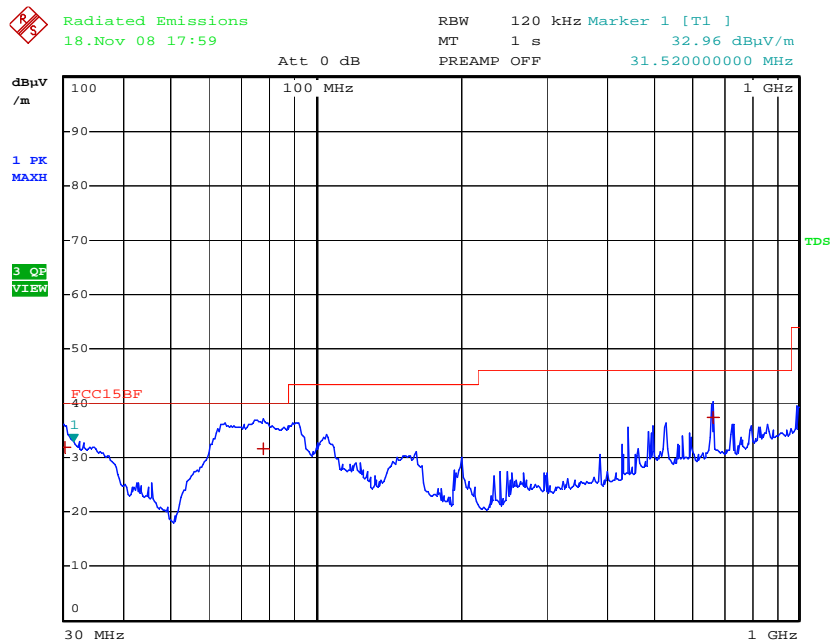


<b>RESULTS:</b>	<p>According to the recorded data in following data table, the EUT complied with the <u>FCC Part 15, Class B</u>, with the worst margin reading of:</p> <p><i>For Below 1 GHz:</i>  <b>-8.19 dB</b> by <b>30.24 MHz</b> in the <b>Vertical</b> Polarization at <b>VGA Mode 640*480 @60Hz.</b>  <b>-5.32 dB</b> by <b>30.20 MHz</b> in the <b>Vertical</b> Polarization at <b>VGA Mode 1024*768@ 60Hz.</b>  <b>-7.33 dB</b> by <b>30.20 MHz</b> in the <b>Vertical</b> Polarization at <b>VGA Mode 1440*900@ 60Hz.</b></p> <p><i>For Above 1 GHz:</i>  <b>-16.80 dB</b> by <b>1621.585 MHz</b> in the <b>Vertical</b> Polarization at <b>VGA Mode 1440*900@60Hz.</b></p> <p>The test results relate only to the equipment under test provided by client.</p>
<b>CHANGES OR MODIFICATIONS:</b>	There were no modifications installed by ECMG Worldwide Certification Solution Inc. (China) test personnel.
<b>M. UNCERTAINTY:</b>	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp $\pm 2.6$ dB

### **15.109 Limits of Radiated Emission :**

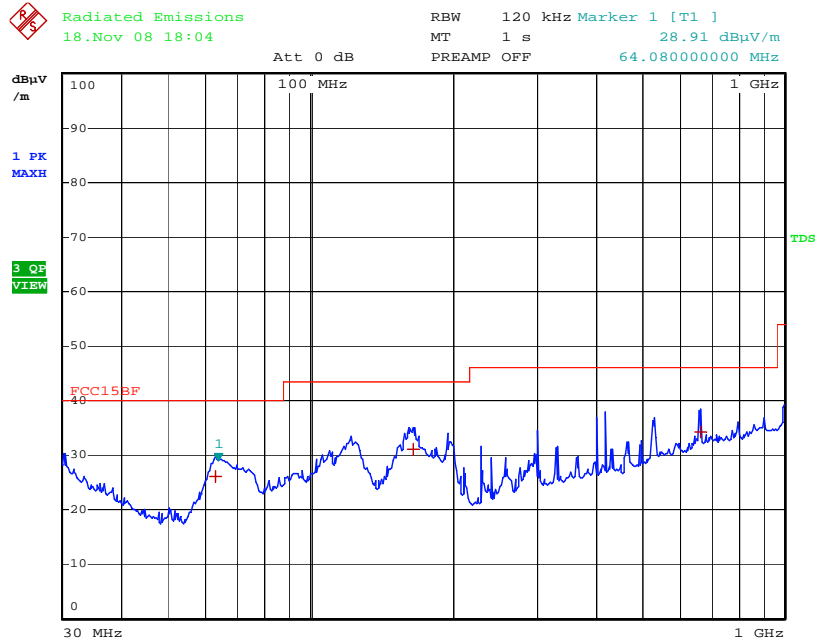
*The field strength of radiated emissions at a distance of 3 meters shall not exceed the following values:*

<i>Frequency of Emission (MHz)</i>	<i>Field Strength (<math>\mu</math>V/m)</i>	<i>Field Strength (dB<math>\mu</math>V/m)</i>
30 - 88	100	40
88 -216	150	43.5
216 - 960	200	46
Above 960	500	54
<i>1) Emission Level dB (<math>\mu</math> V/m) = 20 log Emission Level (<math>\mu</math> V/m) 2) The tighter limit applies at the band edges. 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.</i>		



Date: 18.NOV.2008 17:59:14

### Horizontal Radiated Emissions Graph (VGA Mode 640\*480@60Hz)



Date: 18.NOV.2008 18:04:35

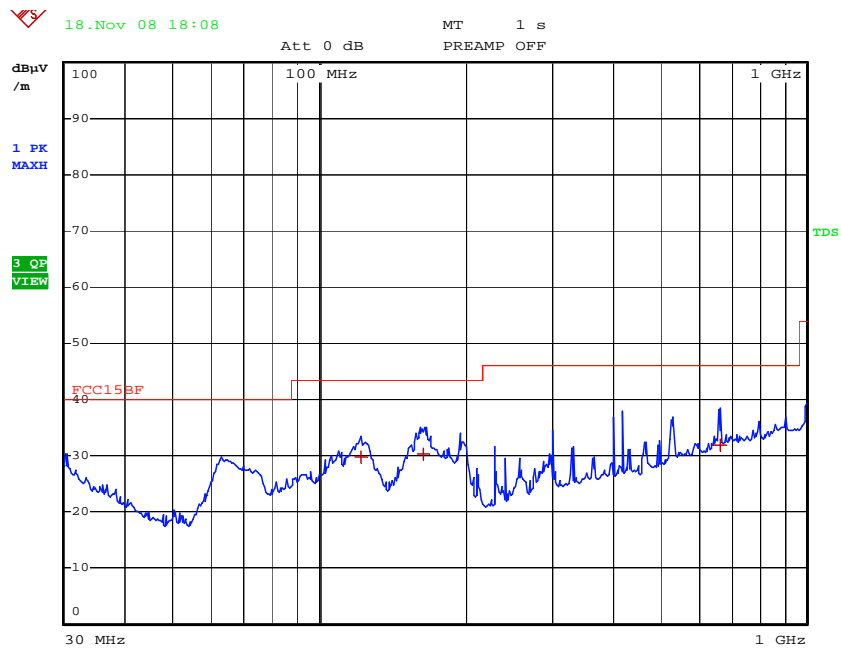
### Vertical Radiated Emissions Graph (VGA Mode 640\*480@60Hz)

FCC Test Report #: SHE-0811-10103-FCCID

Prepared for Quasimoto Interactive, Inc.

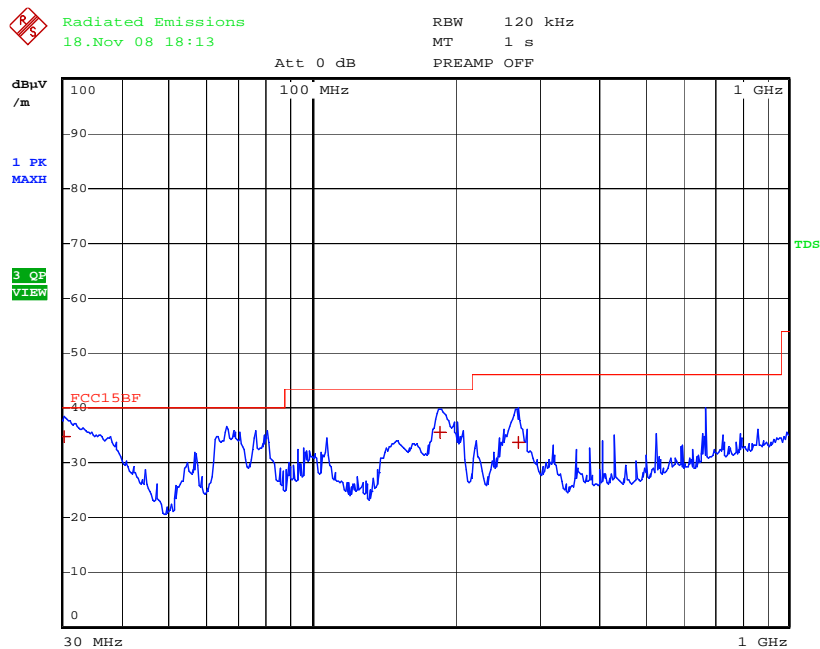
Prepared by ECMG Worldwide Certification Solution Inc.

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Date: 18.NOV.2008 :

### Horizontal Radiated Emissions Graph (VGA Mode 1024\*768@60Hz)



Date: 18.NOV.2008

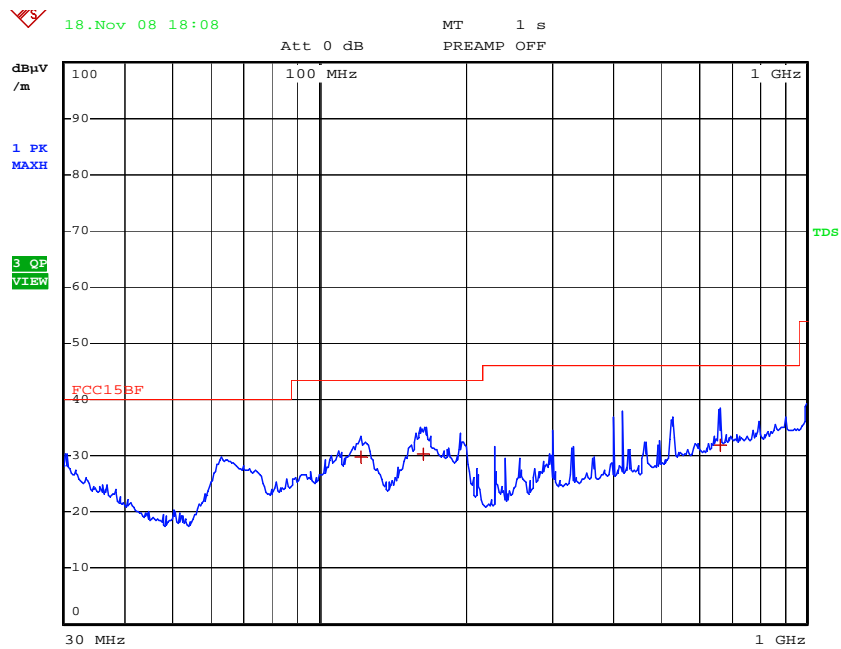
### Vertical Radiated Emissions Graph (VGA Mode 1024\*768@60Hz)

FCC Test Report #: SHE-0811-10103-FCCID

Prepared for Quasimoto Interactive, Inc.

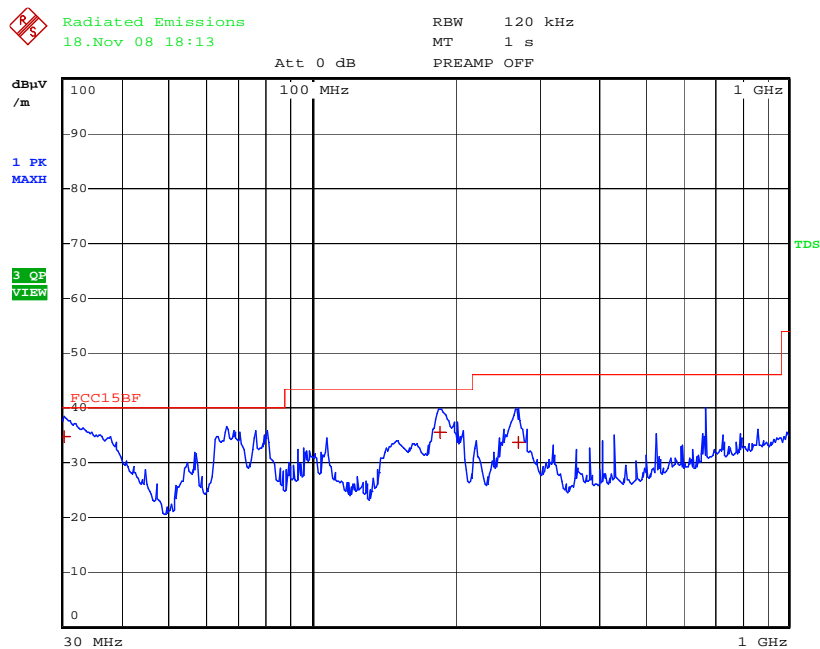
Prepared by ECMG Worldwide Certification Solution Inc.

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Date: 18.NOV.2008 :

### Horizontal Radiated Emissions Graph (VGA Mode 1440\*900@60Hz)



Date: 18.NOV.2008

### Vertical Radiated Emissions Graph (VGA Mode 1440\*900@60Hz)

FCC Test Report #: SHE-0811-10103-FCCID

Prepared for Quasimoto Interactive, Inc.

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## Test Data :

### Below 1GHz:

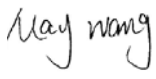
Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dB $\mu$ V/m]	Delta, QP [dB]	3 Meters Limits [dB $\mu$ V/m]
<b>VGA Mode (640*480@60Hz)</b>				
30.24	H	31.81	-8.19	40.0
77.60	H	31.68	-8.32	40.0
6665.52	H	37.33	-8.67	46.0
62.84	V	26.02	-13.98	40.0
165.04	V	31.17	-12.33	43.5
665.24	V	34.27	-11.73	46.0
<b>VGA Mode (1024*768@60Hz)</b>				
122.20	H	29.83	-13.65	43.5
164.20	H	30.18	-13.31	43.5
665.24	H	31.82	-14.17	46.0
30.20	V	34.67	-5.32	40.0
185.64	V	35.48	-8.01	43.5
270.64	V	33.75	-12.24	46.0
<b>VGA Mode (1440*900@60Hz)</b>				
122.20	H	25.83	-17.65	43.5
164.20	H	28.50	-15.0	43.5
665.24	H	30.50	-15.5	46.0
30.20	V	32.67	-7.33	40.0
185.64	V	35.49	-8.01	43.5
270.64	V	30.75	-15.25	46.0
<p>1) The limits shown are based on Quasi-peak value detector below or equal to 1GHz , the bandwidth of Test Receiver was set at 120 kHz below 1GHz.</p> <p>2) The frequency range from 1 GHz to 2 GHz was checked for VGA 1440*900@60Hz modes, 30 MHz to 1000MHz was checked for all test modes.</p> <p>3) The emission levels that are 20dB below the official limit are not reported.</p>				

**Above 1GHz :**

Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dB $\mu$ V/m]	Delta, QP [dB]	3 Meters Limits [dB $\mu$ V/m]	Remark
VGA Mode (1440*900@60Hz)					
1024.400	H	20.94	-32.95	54.0	AV
1220.000	H	21.37	-32.52	54.0	
1362.000	H	22.76	-31.13	54.0	
1548.800	V	23.03	-30.86	54.0	
1701.200	V	22.94	-30.95	54.0	
1992.800	V	24.93	-28.96	54.0	
1102.010	H	45.90	-28.10	74.0	PK
1404.525	H	55.80	-18.20	74.0	
1621.585	H	53.50	-20.50	74.0	
1102.010	V	51.20	-22.80	74.0	
1404.525	V	56.00	-18.00	74.0	
1621.585	V	57.20	-16.80	74.0	
1) The limits shown are based on Peak value and Average value detector above 1GHz.,the bandwidth of Test Receiver was set at 1MHz above 1GHz.					
2) The frequency range from 1 GHz to 2 GHz was checked for VGA 1440*900@60Hz modes, 30 MHz to 1000MHz was checked for all test modes.					
3) The emission levels that are 20dB below the official limit are not reported.					

### ***Test Equipment List :***

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Due
Test Receiver	ESP13	Rohe & Schwarz	04-02/03-06-002	2008/01/25	2009/01/24
BicoNILog Antenna	3142C	EMCO	04-02/24-06-001	2008/01/25	2009/01/24
MiniMast	2175	ETS LINDGREN	04-02/30-06-001	2008/01/25	2009/01/24
Mult-Device Controller	2091	EMCO	04-02/30-06-002	2008/03/21	2009/03/20
Turntable	2087	ETS LINDGREN	04-02/03-06-003	2008/03/21	2009/03/20
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated.					

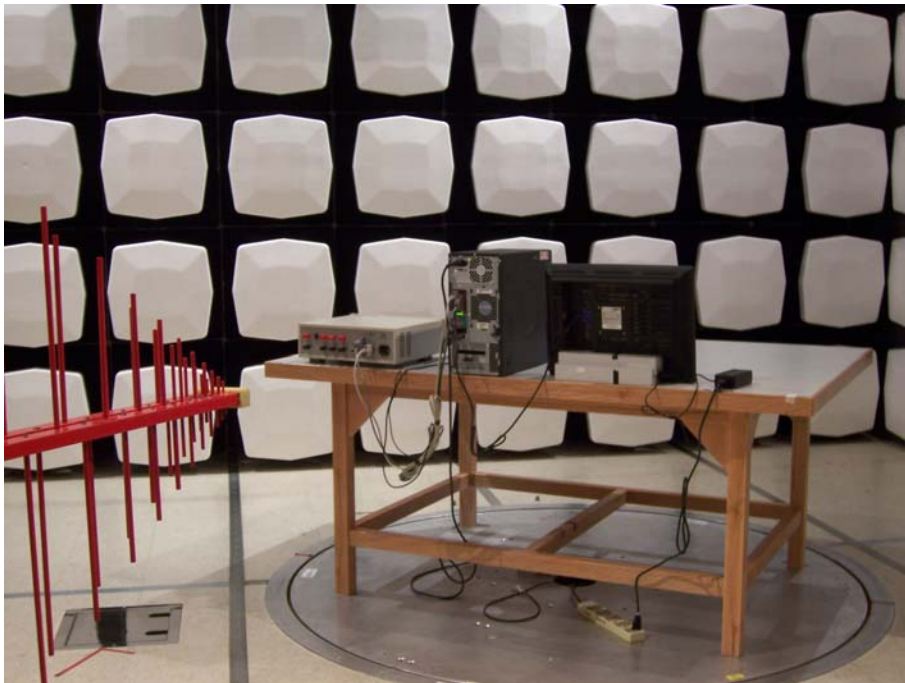
SIGNED BY:   
ENGINEER

REVIEWED BY:   
SENIOR ENGINEER





***Radiated Emission Test Set-up -Front View***



***Radiated Emission Test Set-up - Rear View***