

# Shandong Wowfly Electronic Technology Co.,Ltd

## 3D LCD Display

Model: WFD42C1A

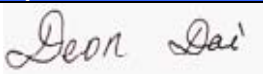

December 16, 2011  
Report No.: 11050123

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

	
Deon Dai Test Engineer	Alex Liu Technical Manager

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Test result presented in this test report is applicable to the representative sample only.

# EMC Test Report

TO:FCC Part 15 Subpart B Class B: Oct. 2011, ANSI C63.4: 2009

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### Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC , RF/Wireless , Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless , Telecom
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless , Telecom
Australia	NATA, NIST	EMC, RF, Telecom , Safety
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Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom , Safety

### Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC , RF , Telecom
Canada	IC FCB , NIST	EMC , RF , Telecom
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Japan	MIC, (RCB 208)	RF , Telecom
HongKong	OFTA (US002)	RF , Telecom

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**CONTENTS**

1 EXECUTIVE SUMMARY & EUT INFORMATION .....5

2 TECHNICAL DETAILS .....6

3 MODIFICATION .....7

4 TEST SUMMARY .....8

5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS .....9

ANNEX A. TEST INSTRUMENTATION & METHOD .....15

ANNEX B. TEST SETUP AND SUPPORTING EQUIPMENT .....20

ANNEX C. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST .....24

ANNEX D. SIEMIC ACCREDITATION CERTIFICATES.....25

# 1 Executive Summary & EUT Information

The purpose of this test program was to demonstrate compliance of the Shandong Wowfly Electronic Technology Co.,Ltd 3D LCD Display , against the current Stipulated Standards. The 3D LCD Display has demonstrated compliance with the FCC Part 15 Subpart B Class B: 2011.

## EUT Information

EUT Description	3D LCD Display
Model No	WFD42C1A
Serial No	N/A
Input Power	110V AC-230V AC;2.0A/1.0A;60Hz /50Hz; 200W
Classification Per Stipulated Test Standard	FCC Part 15 Subpart B Class B: 2011, ANSI C63.4: 2009

## 2 TECHNICAL DETAILS

Purpose	Compliance testing of 3D LCD Display with stipulated standards
Applicant / Client	Shandong Wowfly Electronic Technology Co.,Ltd No.56,Dongliu Road,Dongying Economic Technological Development zone,Shangdong,China
Manufacturer	Shandong Wowfly Electronic Technology Co.,Ltd No.56,Dongliu Road,Dongying Economic Technological Development zone,Shangdong,China
Laboratory performing the tests	SIEMIC Nanjing (China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email:info@siemic.com
Test report reference number	11050123
Date EUT received	December 15,2011
Standard applied	FCC Part 15 Subpart B Class B:2011, ANSI C63.4: 2009
Dates of test (from – to)	December 13,2011
No of Units	#1
Equipment Category	ITE
Trade Name	N/A
Microprocessor (s)	Unidentified
RF Operating Frequency (ies)	N/A
Clock/Oscillator Frequency (ies)	50MHz
Port/Connectors	DVI
FCC ID:	A6VWFD42C1A



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Title: EMC Test Report for 3D LCD Display  
FCC ID: A6VWFD42C1A  
Model: WFD42C1A  
To: FCC Part 15 Subpart B Class B: 2011, ANSI C63.4: 2009

Serial#: 11050123  
Issue Date: December 16, 2011  
Page: 7 of 26  
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### **3 MODIFICATION**

**NONE**

## 4 TEST SUMMARY

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

### **Class B Emission product**

#### **Test Results Summary**

Emissions			
Test Standard	Description	Product Class	Pass / Fail
FCC Part 15 Subpart B Class B: 2011, ANSI C63.4: 2009	AC Line Conducted Emissions	See Above	Pass
FCC Part 15 Subpart B Class B: 2011, ANSI C63.4: 2009	Radiated Spurious Emissions	See Above	Pass

All measurement uncertainty is not taken into consideration for all presented test result.

## 5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

### 5.1 AC Line Conducted Emission Test Result

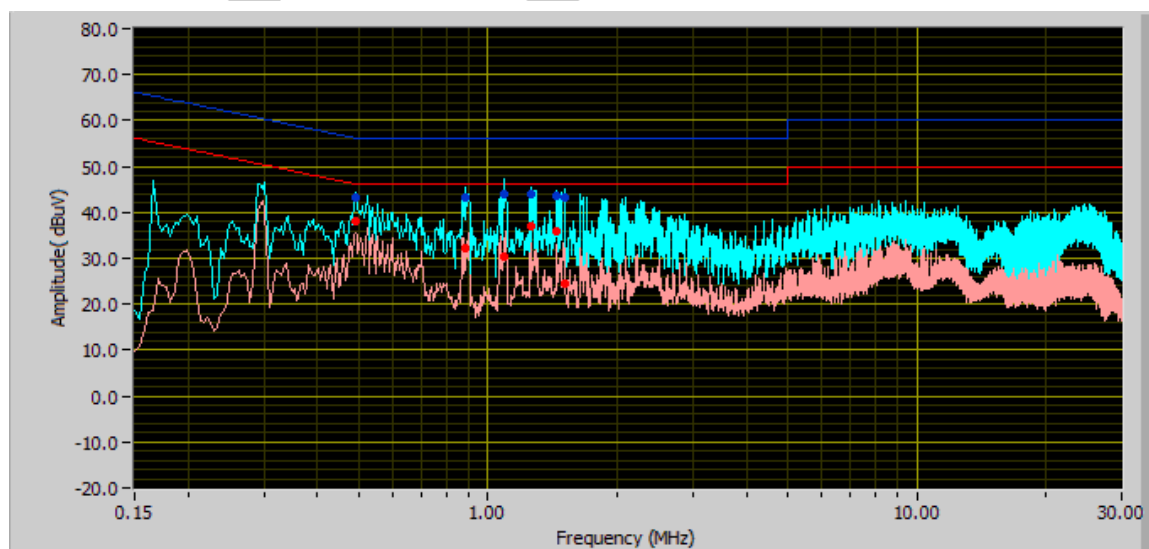
Note:

1. All possible modes of operation were investigated. Only the several worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is  $\pm 3.86\text{dB}$ .
4. Environmental Conditions      Temperature      25°C  
Relative Humidity      50%  
Atmospheric Pressure      1009mbar
5. Test Date : December 15,2011  
Tested By : Deon Dai

Test Result: Pass  
See next page

<b>Test Mode:</b>	<b>Power-- Line</b>
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Peak Detector  Quasi Peak Limit   
 Average Detector  Average Limit 

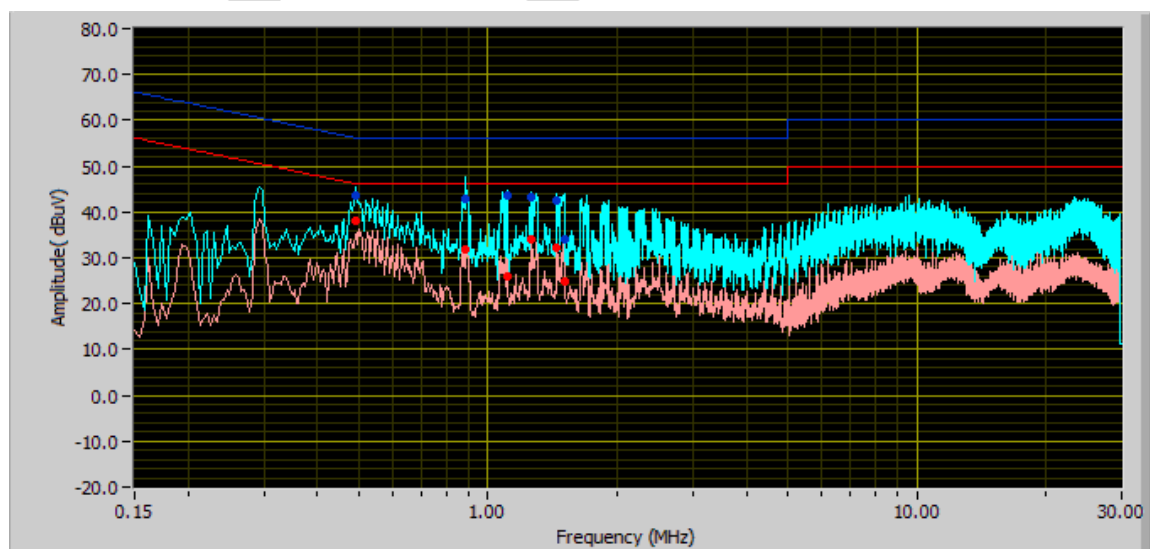


**Phase Line Plot at 120Vac, 60Hz**

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
1.09	43.91	56.00	-12.09	30.33	46.00	-15.67	10.16
1.26	43.85	56.00	-12.15	37.05	46.00	-8.95	10.17
0.88	43.10	56.00	-12.90	32.38	46.00	-13.62	10.17
1.51	43.12	56.00	-12.88	24.47	46.00	-21.53	10.18
1.45	43.70	56.00	-12.30	35.81	46.00	-10.19	10.18
0.49	43.40	56.17	-12.77	37.99	46.17	-8.18	10.17

<b>Test Mode:</b>	<b>Power-- Neutral</b>
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**Peak Detector**  **Quasi Peak Limit**   
**Average Detector**  **Average Limit** 



**Phase Neutral Plot at 120Vac, 60Hz**

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
0.89	42.73	56.00	-13.27	31.88	46.00	-14.12	10.17
0.49	43.59	56.17	-12.58	38.18	46.17	-7.99	10.17
1.11	43.46	56.00	-12.54	25.81	46.00	-20.19	10.16
1.26	43.08	56.00	-12.92	33.87	46.00	-12.13	10.17
1.45	42.34	56.00	-13.66	32.39	46.00	-13.61	10.18
1.51	34.22	56.00	-21.78	24.89	46.00	-21.11	10.18

## 5.2 Radiated Spurious Emission Test Results

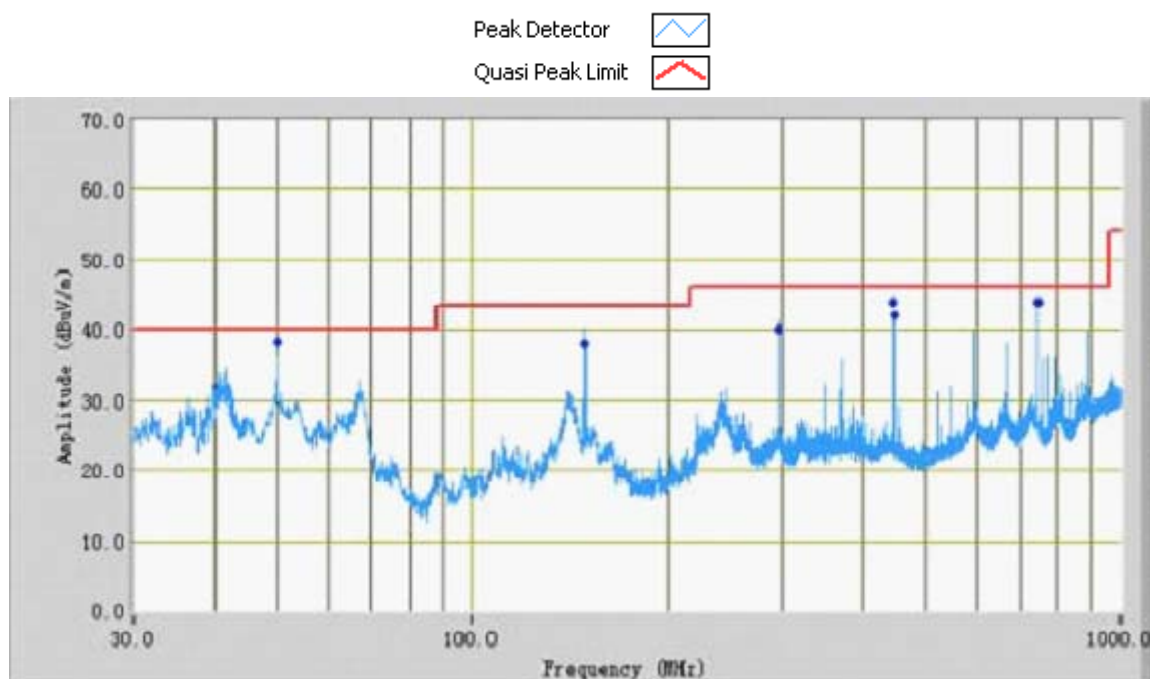
### Note:

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz (QP only @ 3m & 10m) is +6dB/-6dB (for EUTs < 0.5m X 0.5m X 0.5m).
4. Environmental Conditions      Temperature      25°C  
   Relative Humidity      50%  
   Atmospheric Pressure      1011mbar
5. Test Date : December 15,2011  
Tested By : Deon Dai

Test Result: Pass  
See next page

## Radiated Emission Test Result

<b>Test Mode:</b>	<b>Vertical</b>
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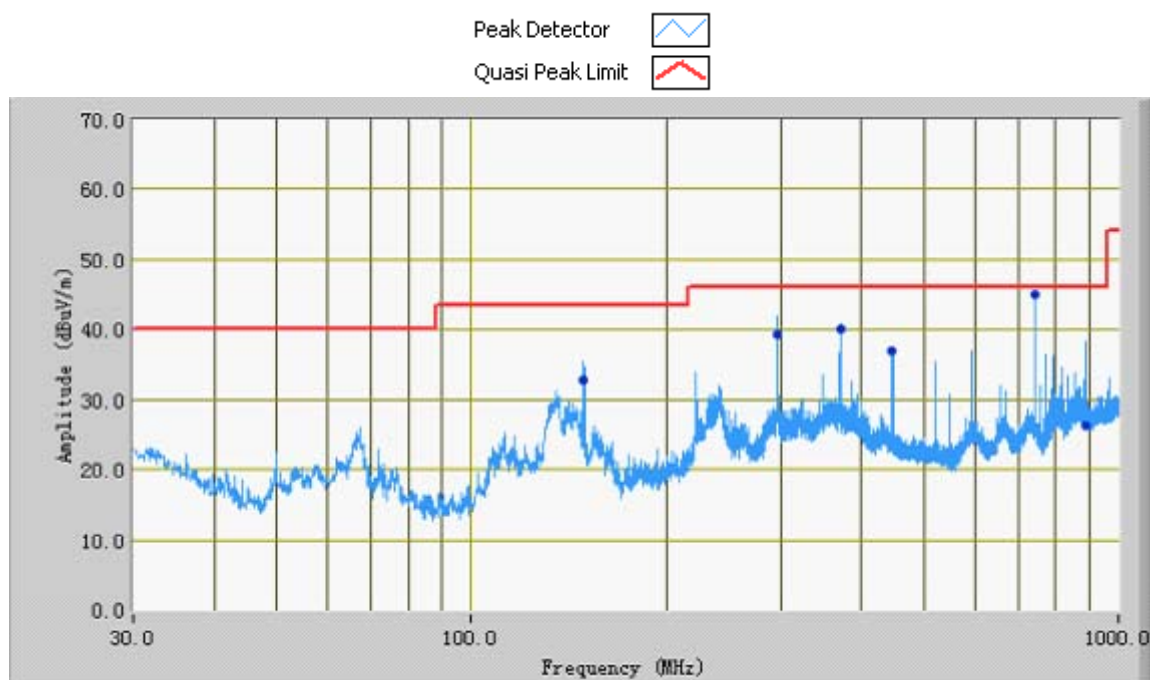
### 30MHz ~1000MHz Result @ 3m

Frequency (MHz)	Quasi Peak (dBuV/m)	Azimuth	Polarity(H/V)	Height (cm)	Factors (dB)	Limit (dBuV/m)	Margin (dB)
742.50	44.33	24.00	V	101.00	-20.64	46.00	-1.67
148.50	38.07	348.00	V	100.00	-31.46	43.50	-5.43
49.99	38.17	166.00	V	123.00	-35.06	40.00	-1.83
296.99	40.19	360.00	V	232.00	-29.86	46.00	-5.81
445.48	44.04	193.00	V	105.00	-27.53	46.00	-1.96
449.98	42.21	193.00	V	100.00	-27.47	46.00	-3.79

### Remark:

Factor (dB) = Antenna factor + Cable loss – Amplifier gain  
 Quasi-Peak Emiss. Level (dBuV/m) = Raw Data (dBuV) + Corr. Factor (dB/m)  
 Limit (dBuV/m) = Limit stated in standard  
 Margin (dB) = Quasi-Peak Emiss. Level (dBuV/m) – Limits (dBuV/m)

<b>Test Mode:</b>	<b>Horizontal</b>
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### 30MHz ~1000MHz Result @ 3m

Frequency (MHz)	Quasi Peak (dBuV/m)	Azimuth	Polarity(H /V)	Height (cm)	Factors (dB)	Limit (dBuV/m)	Margin (dB)
742.48	45.02	153.00	H	110.00	-21.24	46.00	-0.98
297.00	39.23	30.00	H	111.00	-27.39	46.00	-6.77
371.26	40.07	194.00	H	100.00	-27.35	46.00	-5.93
891.07	26.20	139.00	H	99.00	-18.75	46.00	-19.80
148.50	32.89	358.00	H	165.00	-31.85	43.50	-10.61
445.50	37.01	138.00	H	188.00	-27.14	46.00	-8.99

#### **Remark:**

Factor (dB) = Antenna factor + Cable loss – Amplifier gain  
 Quasi-Peak Emiss. Level (dBuV/m) = Raw Data (dBuV) + Corr. Factor (dB/m)  
 Limit (dBuV/m) = Limit stated in standard  
 Margin (dB) = Quasi-Peak Emiss. Level (dBuV/m) – Limits (dBuV/m)

## Annex A. TEST INSTRUMENTATION & METHOD

### Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Due
<b>Conducted Emissions</b>			
R&S Receiver	ESPI 3	101216	05/25/2012
LISN	ESH2-Z5	861741/013	05/25/2012
LISN	LI-115	241090	5/25/2012
<b>Radiated Emissions</b>			
R&S Receiver	ESPI 3	101216	05/25/2012
HP Pre-amplifier (0.1-1300MHz)	8447F	1937A01160	05/25/2012
Sunol Sciences, Inc. Antenna (30MHz~2GHz)	JB1	A112107	10/03/2012

## Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

### Limits Of Conducted Emissions Measurement

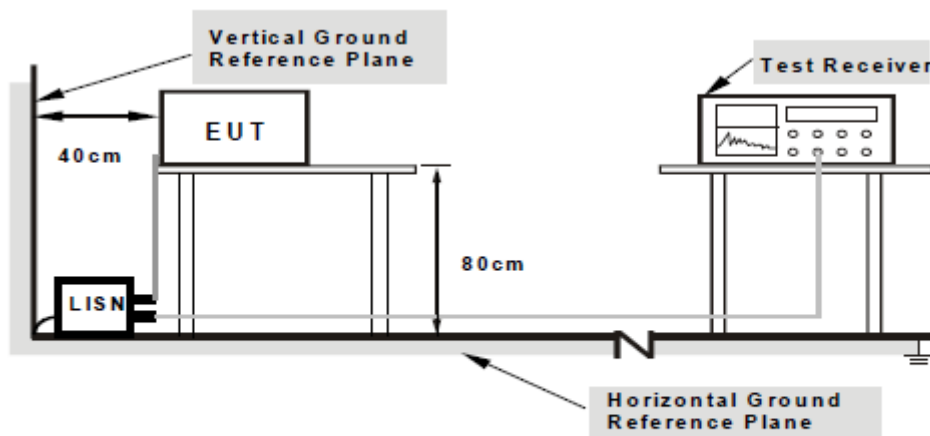
Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

#### **NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Photographs of the Test Configuration1.
2. The power supply for the EUT was fed through a 50Ω/50μH EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.



**Note:** 1.Support units were connected to second LISN.  
 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1.

### Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.

4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

### **Description of Conducted Emission Program**

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the common scan range from 150 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.

### **Sample Calculation Example**

At 20 MHz

limit =  $250 \mu\text{V}$  = 47.96 dB $\mu\text{V}$

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dB $\mu\text{V}$   
(Calibrated for system losses)

Therefore, Q-P margin = 47.96 – 40.00 = 7.96

i.e. **7.96 dB below limit**

## Annex A. iii RADIATED EMISSIONS TEST DESCRIPTION

### Limits Of Radiated Emissions Measurement

Frequency (Hz)	Field Strength ( $\mu\text{V/m}$ at 3-meter)	Field Strength ( $\text{dB}\mu\text{V/m}$ at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

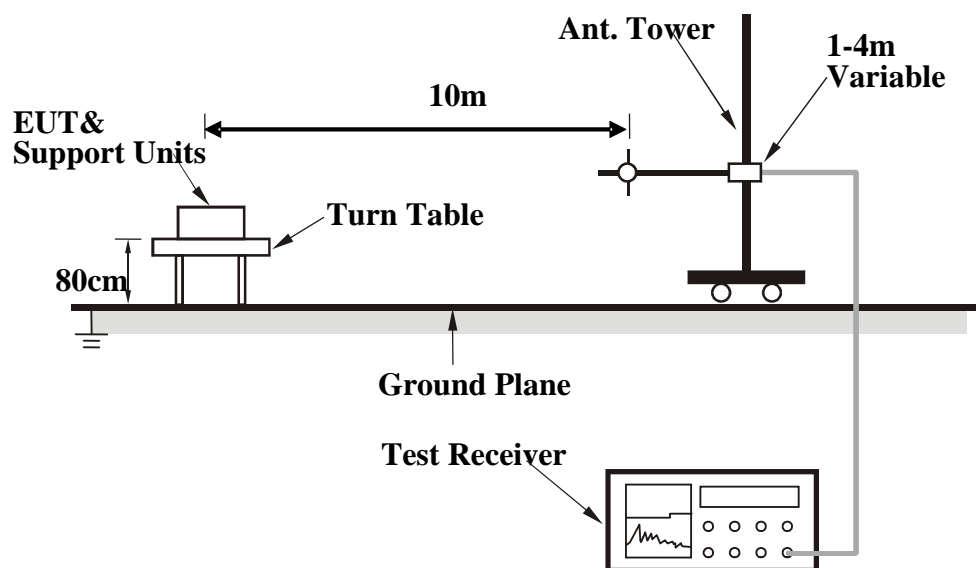
### EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 1GHz (for FCC tests, until the 5<sup>th</sup> harmonic for operating frequencies  $\geq 108\text{MHz}$ ), was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m or 10m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or EMC 10m chamber.

### Test Set-up

- The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
- The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
- The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



## **Test Method**

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

### **Final Radiated Emission Measurement**

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site or EMC 10m chamber. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

## **Description of Radiated Emission Program**

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.

## **Sample Calculation Example**

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)

And the average value is

$$\text{Average} = \text{Peak Value} + \text{Duty Factor or}$$

$$\text{Set RBW} = 1\text{MHz, VBW} = 10\text{Hz.}$$

Note :

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.

## **Annex B. TEST SETUP AND SUPPORTING EQUIPMENT**

### **EUT TEST CONDITIONS**

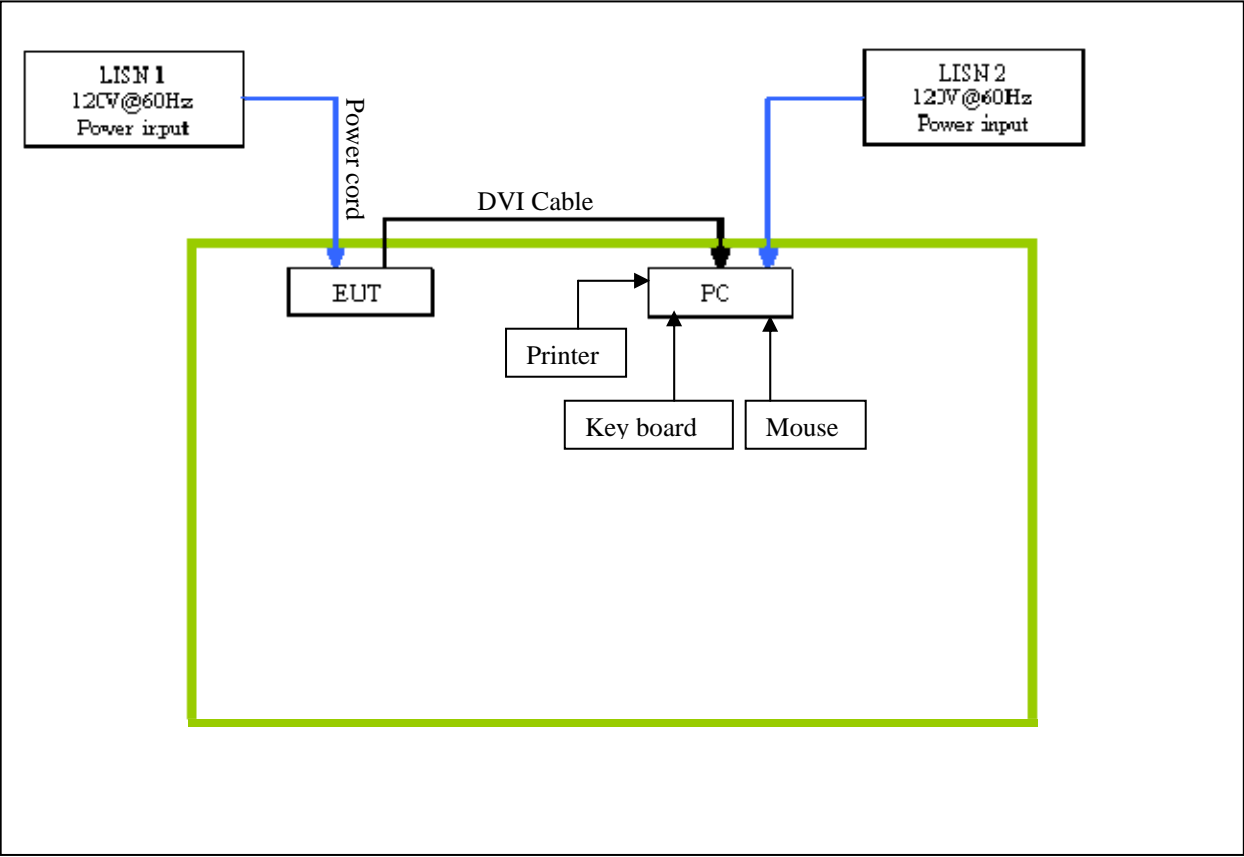
#### **Annex B. i. SUPPORTING EQUIPMENT DESCRIPTION**

The following is a description of supporting equipment and details of cables used with the EUT.

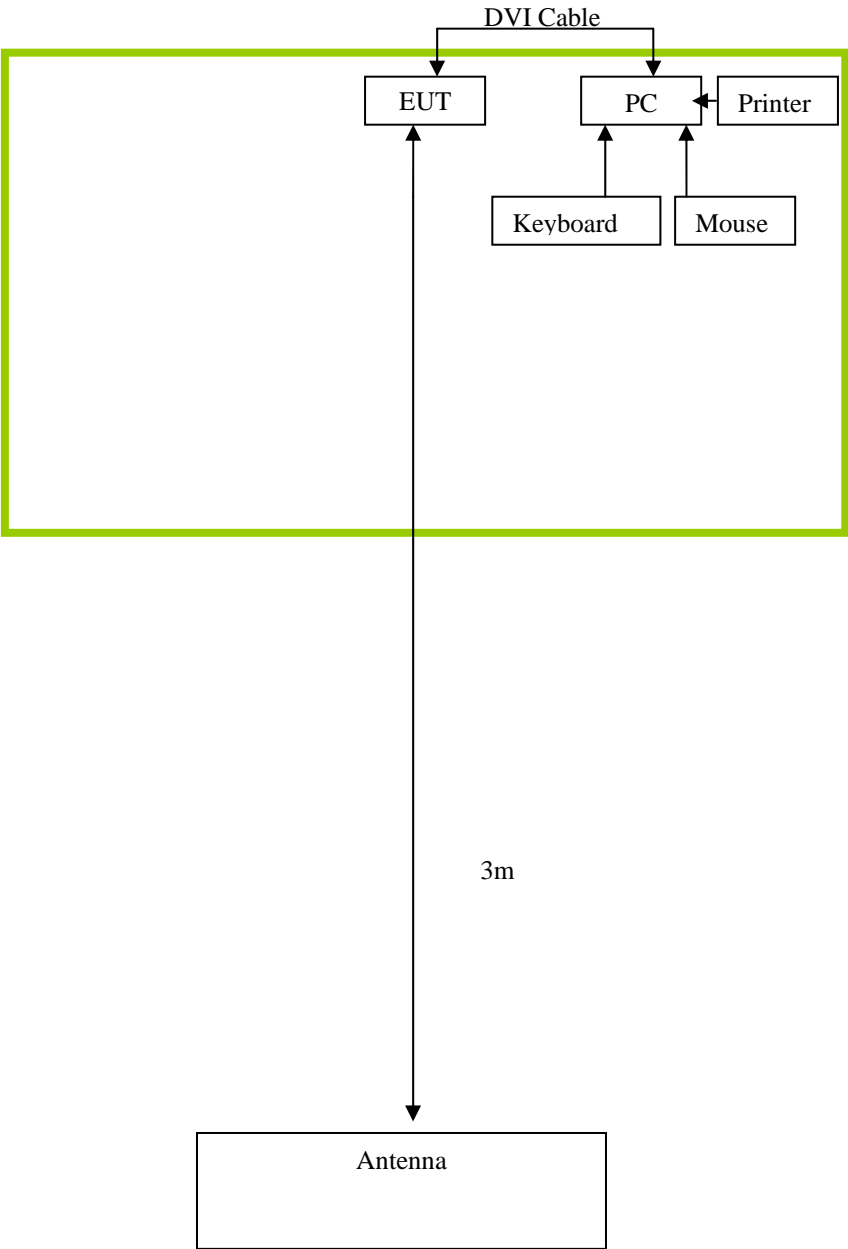
Equipment Description (Including Brand Name)	Model & Serial Number	Cable Description (List Length, Type & Purpose)
DELL PC	VOSTRO 220S	DVI Cable(1.8m with shielding) & Power Cord(1.8m with un-shielding)
Key Board	L100	N/A
Mouse	MIK200	N/A
Printer	HP Deskjet DB68 / CN74R2N400	N/A

**NOTE:** No special supporting equipment used or needed during testing to achieve compliance.

Block Configuration Diagram for Conducted Emission



**Block Configuration Diagram for Radiated Emission**



## **Annex B.ii. EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
<b>Emissions Testing</b>	<ol style="list-style-type: none"><li>1. Setup the EUT according to the standard; connect the EUT with the support units.</li><li>2. At the test table, play the minimum auxiliary.</li><li>3. Run Burnin 5.2 9 “H” pattern test program.</li><li>4. Start testing.</li></ol> <p>Note: Test program is self-repeating throughout the test.</p>

## **Annex C. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST**

**Please see attachment**

## **Annex D. SIEMIC ACCREDITATION CERTIFICATES**

### **SIEMIC ACREDITATION DETAILS: FCC Test Site Registration No. 986914**

#### **FEDERAL COMMUNICATIONS COMMISSION**

Laboratory Division  
7435 Oakland Mills Road  
Columbia, MD 21046

April 19, 2011

Registration Number: 986914

SIEMIC Nanjing (China) Laboratories  
2-1 Longcang Avenue,  
Yuhua Economic and Technology Development Park,  
Nanjing, 210039  
China

Attention: Leslie Bai,

Re: Measurement facility located at 2-1 Longcang Avenue, Nanjing, China  
Anechoic chamber (3 meters) and 3&10 meter OATS  
Date of Renewal: April 19, 2011

Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website [www.fcc.gov](http://www.fcc.gov) under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

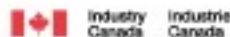
Phyllis Parrish  
Industry Analyst

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Title: EMC Test Report for 3D LCD Display  
FCC ID: A6VWFD42C1A  
Model: WFD42C1A  
To: FCC Part 15 Subpart B Class B: 2011, ANSI C63.4: 2009

Serial#: 11050123  
Issue Date: December 16, 2011  
Page: 26 of 26  
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**SIEMIC ACREDITATION DETAILS: Industry of Canada Test Site Registration No. 4842B**

January 25, 2011

OUR FILE: 46405-4842  
Submission No: 145222

**Siemic Nanjing (China) Laboratories**  
2-1 Longcang Avenue  
Yuhua Economic & Technology Dev. Park, Nanjing  
China

*Attention:* Leslie Bai

Dear Sir/Madame:

The Bureau has received your application for the registration of a 3/10m OATS. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought ( **Site# 4842B-2** ). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please keep for your records the following information:

- The company address code associated to the site(s) located at the above address is: **4842B**

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 or later shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 metre OATS or 3 metre chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed three years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL:  
[http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h\\_tt00052e.html](http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h_tt00052e.html).

If you have any questions, you may contact the Bureau by e-mail at [certification.bureau@ic.gc.ca](mailto:certification.bureau@ic.gc.ca). Please reference our file and submission number above for all correspondence.

Yours sincerely,

Dalwinder Gill  
For: Wireless Laboratory Manager  
Certification and Engineering Bureau  
3701 Carling Ave., Building 94  
P.O. Box 11490, Station "H"  
Ottawa, Ontario K2H 8S2  
Email: [dalwinder.gill@ic.gc.ca](mailto:dalwinder.gill@ic.gc.ca)  
Tel. No. (613) 998-8363  
Fax. No. (613) 998-4752