# FCC TEST REPORT

Report No.: SEFD1103012

## According to

## 47 CFR, Part 2, Part 15 and CISPR PUB. 22

**Applicant** LG Electronics USA

1000 Sylvan Avenue Englewood Cliffs New Jersey Address

**United States** 

Manufacturer: LG Electronics Nanjing Display Co., Ltd.

No.346, Yaoxin Road Economic & Technical Address

**Development Zone Nanjing China** 

: LCD Monitor Equipment

Model No. : E2411TX

FCC ID BEJE2411TX

Trade Name LG

• The test result refers exclusively to the test presented test model / sample.

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# Document history

Report No.: SEFD1103012

Attachment No.	Date	Description
SEFD1103012	Mar 10, 2011	First edition

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# **FCC TEST REPORT**

## According to

## 47 CFR, Part 2, Part 15 and CISPR PUB. 22

**Applicant** : LG Electronics USA

1000 Sylvan Avenue Englewood Cliffs New Jersey Address

**United States** 

Manufacturer : LG Electronics Nanjing Display Co., Ltd.

No.346, Yaoxin Road Economic & Technical Address

Development Zone Nanjing China

**LCD** Monitor Equipment

Model No. E2411TX

FCC ID BEJE2411TX

Trade Name : LG

## I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4 - 2003 and the energy emitted by this equipment was passed CISPR PUB. 22 and FCC Part 15 in both radiated and conducted emission class B limits. Testing was carried out on Mar 10, 2011 at Cerpass Technology Corp.

Documented By:

Approved By:

Report No.: SEFD1103012

Clinton Kao/ Technical director Sugar Yu/ Administration

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# 1. Summary of Test Procedure and Test Result

Test Item	Normative References	Test Result	
Conducted Emission	ANSI C63.4-2003	PASS	
Conducted Emission	FCC Part 15 Subpart B	PASS	
Radiated Emission	ANSI C63.4-2003	PASS	
Radiated Effission	FCC Part 15 Subpart B	PASS	

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# 2. Test Configuration of Equipment under Test

# 2.1. Feature of Equipment under Test

LCD Monitor	Model No:	E2411TX			
VGA Cable	Shielded, 1.5m, with two ferrite cores bonded				
VGA Cable	Shielded, 1.5m				
DVI Cable	Shielded, 1.5m, with two ferrite cores bonded				
DVI Cable	Shielded, 1.5m				
Power Supply cable	Non-Shielded, 1.5m				
Note: The VGA Cable and DVI Cable are alternative on selling.					

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## 2.2. Test Manner

Test Sof	Test Software							
а	During testing, the interface cables and equipment positions were varied according to ANSI							
	C63.4.							
b	The complete test system included the PC, USB Keyboard, USB Mouse, Printer and EUT							
	for EMI test.							
С	During the test, setup up the EUT and all system, turn on the power of all Equipments, run							
	the EMC test software "H", set the contrast control to maximum, set the brightness control							
	to maximum, use white letters on a black background to represent all colors, make the EUT							
	at the test mode and it is normal operation, and then test.							
The pre-	test modes							
	Test Mode 1: Full system (VGA mode 720*400@70Hz)							
	Test Mode 2: Full system (VGA mode 1024*768@75Hz)							
	Test Mode 3: Full system (VGA mode 1920*1080@60Hz)							
	Test Mode 4: Full system (DVI mode 720*400@70Hz)							
	Test Mode 5: Full system (DVI mode 1024*768@75Hz)							
	Test Mode 6: Full system (DVI mode 1920*1080@60Hz)							
Select th	Select the worst case of the pre-test modes as the final test mode							
	Test Mode 4: Full system (DVI mode 720*400@70Hz)							
Note: TI	Note: These two kinds of DVI and VGA cables have been pre-tested and that the during							
pre-test	only shielded VGA and DVI cable showed the worst case.							

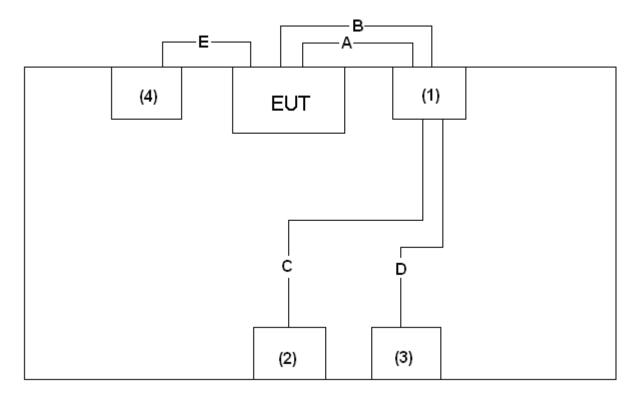
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# 2.3. Description of Test System

No	Device	Manufacturer	Model No.	Description
1	PC	Dell	DCSM	N/A
2	USB Keyboard	DELL	SK-8115	N/A
3	USB Mouse	Logitech	831912-0000	N/A
4	Printer	Epson	EX3	N/A

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# 2.4. Connection Diagram of Test System



No	Cable	Quantity	Description
Α	DVI Cable	1	Shielded, 1.5m
В	VGA Cable	1	Shielded, 1.5m
С	USB Cable	1	Shielded, 2.1m, with one ferrite core bonded
D	USB Cable	1	Shielded, 1.8m
E	Parallel Cable	1	Shielded, 2.0m

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## 2.5. General Information of Test

Test Site:	Cerpass Technology Corp.				
Performand Location :	No.66, Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China				
NVLAP LAB Code :	200814-0				
FCC Registration Number :	916572, 331395				
IC Registration Number :	7290A-1, 7290A-2				
VCCI Registration Number :	T-343 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test below 1GHz G-227 for Radiated emission test above 1GHz				
Frequency Range Investigated :	Conducted Emission Test: from 150kHz to 30 MHz Radiated Emission Test: from 30 MHz to 1,000 MHz Radiated Emission Test: from 1GHz to 18GHz				
Test Distance :	The test distance of radiated emission below 1GHz from antenna to EUT is 3 M.  The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.				

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Laboratory accreditation



## 2.6. Measurement Uncertainty

Conducted Emission					
The measurement uncertainty is evaluated as ± 2.71 dB.					
Radiated Emission					
(30MHz -1000MHz)	Horizontal	The measurement uncertainty is evaluated as ±3.89dB			
(30MHZ - 1000MHZ)	Vertical	The measurement uncertainty is evaluated as ± 3.59 dB.			
(10 100 47)	Horizontal	The measurement uncertainty is evaluated as ± 2.31 dB.			
(1G-18GHz)	Vertical	The measurement uncertainty is evaluated as ± 2.15 dB.			

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## **Test of Conducted Emission**

### 3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

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Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)		
0.15 – 0.5	66-56*	56-46*		
0.5 – 5.0	56	46		
5.0 - 30.0	60	50		

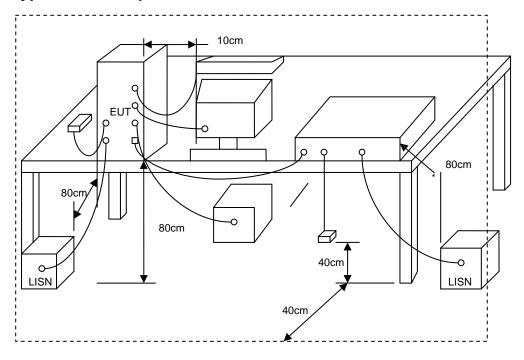
#### 3.2. **Test Procedures**

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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#### 3.3. **Typical test Setup**



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# 3.4. Measurement equipment

Instrument	rument Manufacturer		Serial No.	Calibration Date	
Test Receiver	R&S	ESCI	100565	2011.01.15	
AMN	R&S	ESH2-Z5	100182	2010.06.23	
Two-Line V-Network	R&S	ENV216	100325	2010.04.18	
ISN	FCC	FCC-TLISN-T2-02	20379	2010.06.23	
ISN	FCC	FCC-TLISN-T4-02	20380	2010.06.23	
ISN	FCC	FCC-TLISN-T8-02	20381	2010.06.23	
Current Probe	R&S	EZ-17	100303	2010.06.23	
Attenuator	R&S	ESH3-Z2	100529	2011.01.11	
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2010.08.14	

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### 3.5. Test Result and Data

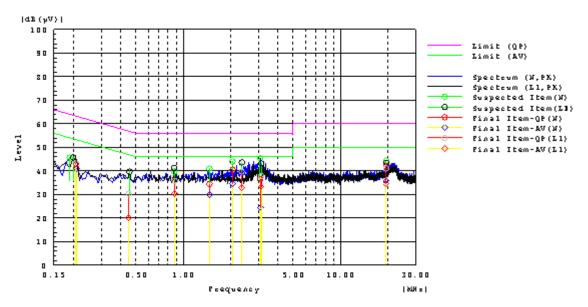
Test Mode: Mode 4: Full system (DVI mode 720\*400@70Hz)

AC Power: AC 120V/60Hz Phase: L&N

EUT: LCD Monitor Model No.: E2411TX

Temperature: 22°C Humidity: 50%

Pressur(mbar): 1002 Date: 2011/03/07



Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.20694	L1	23.2	23.0	19.9	43.1	42.9	63.3	53.3	20.2	10.4	Pass
0.44895	L1	10.5	0.2	19.9	30.4	20.1	56.9	46.9	26.5	26.8	Pass
0.88206	L1	16.0	10.6	19.8	35.8	30.4	56.0	46.0	20.2	15.6	Pass
2.34821	L1	20.1	13.4	19.7	39.8	33.1	56.0	46.0	16.2	12.9	Pass
3.12868	L1	18.1	13.7	19.7	37.8	33.4	56.0	46.0	18.2	12.6	Pass
19.4804	L1	21.5	15.0	19.6	41.1	34.6	60.0	50.0	18.9	15.4	Pass
19.4806	Ν	22.2	15.8	20.0	42.2	35.8	60.0	50.0	17.8	14.2	Pass
3.08415	Ν	16.9	4.9	19.6	36.5	24.5	56.0	46.0	19.5	21.5	Pass
2.05605	Ν	21.0	15.1	19.5	40.5	34.6	56.0	46.0	15.5	11.4	Pass
1.46697	Ν	15.0	10.4	19.5	34.5	29.9	56.0	46.0	21.5	16.1	Pass
0.88119	Ν	16.4	10.8	19.5	35.9	30.3	56.0	46.0	20.1	15.7	Pass
0.20859	N	21.7	21.5	19.5	41.2	41.0	63.3	53.3	22.1	12.3	Pass

Note: Measurement Level = Reading Level + Correct Factor

Test engineer:

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## 4. Test of Radiated Emission

### 4.1. Test Limit

Radiated emissions from 30 MHz to 1,000 MHz were measured with a bandwidth of 120 kHz according to the methods defines in ANSI C63.4-2003. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 3.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

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For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Distance	Level	Level
(MHz)	(m)	(dBuV/m)	(dBuV/m)
30 - 88	3	40(QP)	N/A
88 - 216	3	43(QP)	N/A
216-960	3	46(QP)	N/A
960-1000	3	54(QP)	N/A
1000-18000	3	74(PK)	54(AV)

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

Frequency (MHz)	Distance Meters	Radiated (dB µ V/ M)
30-230	10	30
230-1000	10	37

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### 4.2. Test Procedures

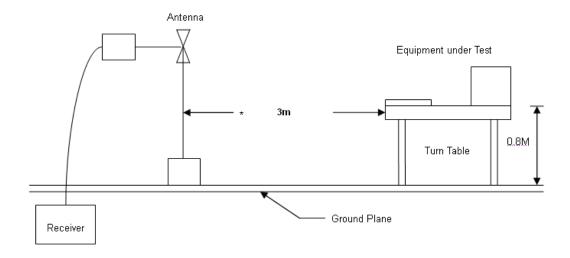
- a. The EUT was placed on a Rota table top 0.8 meter above ground.
- b. The EUT and its simulators are placed on the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

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- c. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
- d. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.
- e. Radiated emissions were invested over the frequency range from 30MHz to1GHz using a receiver bandwidth of 120KHz and the frequency range from 1GHz to 18GHz using a receiver bandwidth of 1MHz.

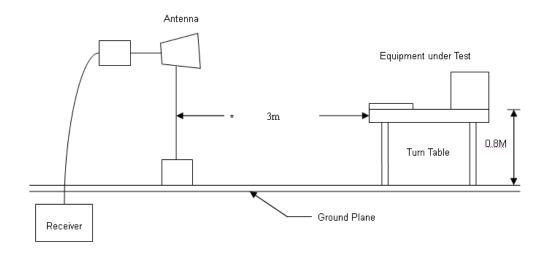
## 4.3. Typical test Setup

Below 1GHz Test Setup



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Above 1GHz Test Setup



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# 4.4. Measurement equipment

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date	
EMI Test Receiver	R&S	ESCI	100563	2010.06.23	
H64 Amplifier	HP	8447F	3113A05582	2010.08.14	
Preamplifier	Agilent	8449B	ED-HE-EMI-077	2011.02.10	
Ultra Broadband Antenna	R&S	HL562	100363	2010.08.14	
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2010.08.14	
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14	
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17	

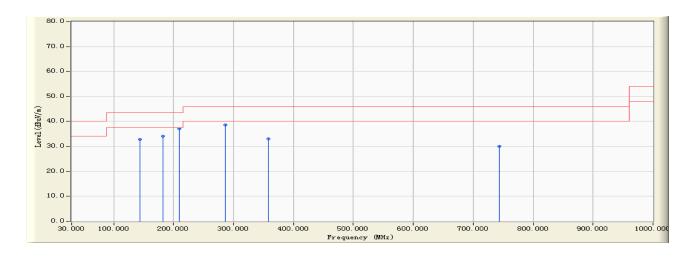
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## 4.5. Test Result and Data

### **Under 1G**

Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/03/07 - 20:26
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : LCD Monitor	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Full system (DVI mode 720*400@70Hz)

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		Frequency	Correct	Reading	Measure	Margin	Limit	Detector Type	Ant Pos	Table Pos
		(MHz)	Factor (dB)	Level	Level	(dB)	(dBuV/m)		(cm)	(deg)
				(dBuV)	(dBuV/m)					
1		143.600	-17.655	50.364	32.709	-10.791	43.500	QUASIPEAK	200.000	153.260
2		181.850	-17.163	51.360	34.197	-9.303	43.500	QUASIPEAK	200.000	36.214
3	*	209.560	-17.061	54.170	37.109	-6.391	43.500	QUASIPEAK	200.000	356.820
4		286.350	-13.614	52.160	38.546	-7.454	46.000	QUASIPEAK	200.000	15.320
5		358.620	-11.463	44.500	33.037	-12.963	46.000	QUASIPEAK	200.000	12.548
6		743.250	-4.325	34.250	29.924	-16.076	46.000	QUASIPEAK	200.000	183.247

## Note:

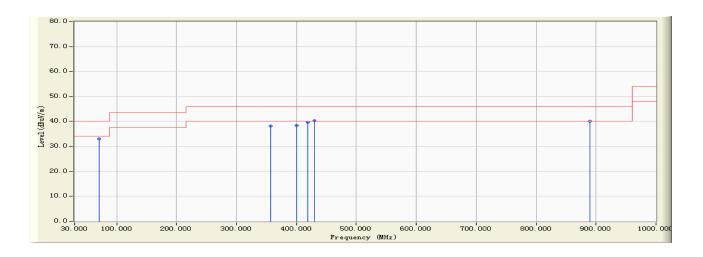
- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

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Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/03/07 - 20:26
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : LCD Monitor	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Full system (DVI mode 720*400@70Hz)



		Frequency	Correct	Reading	Measure	Margin	Limit	Detector Type	Ant Pos	Table
		(MHz)	Factor (dB)	Level	Level	(dB)	(dBuV/m)		(cm)	Pos
				(dBuV)	(dBuV/m)					(deg)
1		71.160	-19.642	52.600	32.958	-7.042	40.000	QUASIPEAK	100.000	153.240
2		356.820	-11.542	49.650	38.109	-7.891	46.000	QUASIPEAK	100.000	93.150
3		400.100	-10.828	49.325	38.497	-7.503	46.000	QUASIPEAK	100.000	13.540
4		418.750	-10.204	49.790	39.587	-6.413	46.000	QUASIPEAK	100.000	89.610
5	*	429.540	-10.175	50.580	40.405	-5.595	46.000	QUASIPEAK	100.000	184.570
6		890.140	-2.303	42.360	40.057	-5.943	46.000	QUASIPEAK	100.000	45.820

## Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

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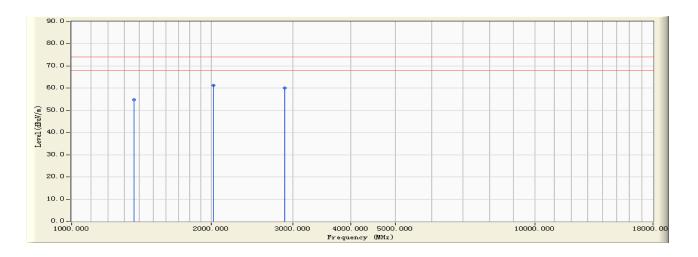


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### **Above 1G**

Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/03/07 - 20:41
Limit : FCC_15_03M_PK	Margin: 6
EUT : LCD Monitor	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Full system (DVI mode 720*400@70Hz)

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		Frequency	Correct	Reading	Measure	Margin	Limit	Detector Type	Ant Pos	Table
		(MHz)	Factor (dB)	Level	Level	(dB)	(dBuV/m)		(cm)	Pos (deg)
				(dBuV)	(dBuV/m)					
1		1365.700	4.456	50.200	54.657	-19.343	74.000	PEAK	200.000	46.700
2	*	2024.100	5.761	55.600	61.360	-12.640	74.000	PEAK	200.000	128.500
3		2884.500	7.841	52.300	60.141	-13.859	74.000	PEAK	200.000	194.300

## Note:

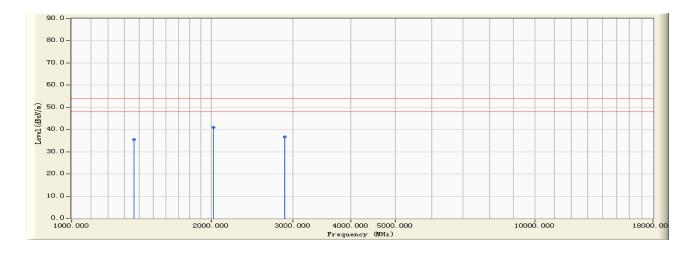
- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

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Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/03/07 - 20:42
Limit : FCC_15_03M_AV	Margin : 6
EUT : LCD Monitor	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Full system (DVI mode 720*400@70Hz)



		Frequency	Correct	Reading	Measure	Margin	Limit	Detector	Ant Pos	Table Pos
		(MHz)	Factor (dB)	Level	Level	(dB)	(dBuV/m)	Туре	(cm)	(deg)
				(dBuV)	(dBuV/m)					
1		1365.700	4.456	30.900	35.357	-18.643	54.000	AVERAGE	200.000	46.700
2	*	2024.100	5.761	35.300	41.060	-12.940	54.000	AVERAGE	200.000	128.500
3		2884.500	7.841	28.800	36.641	-17.359	54.000	AVERAGE	200.000	194.300

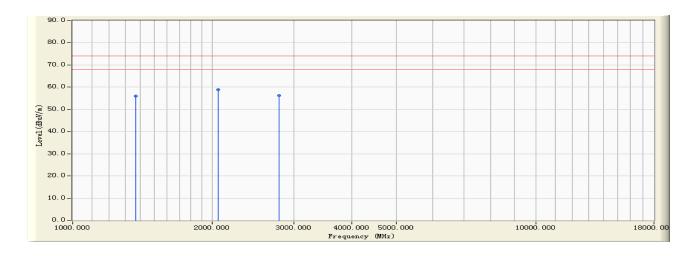
### Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- " \* ", means this data is the worst emission level. 2.
- 3. Measurement Level = Reading Level + Correct Factor

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Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/03/07 - 20:46
Limit : FCC_15_03M_PK	Margin : 6
EUT : LCD Monitor	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Full system (DVI mode 720*400@70Hz)



		Frequency	Correct	Reading	Measure	Margin	Limit	Detector Type	Ant Pos	Table
		(MHz)	Factor (dB)	Level	Level	(dB)	(dBuV/m)		(cm)	Pos (deg)
				(dBuV)	(dBuV/m)					
1		1369.700	4.463	51.600	56.063	-17.937	74.000	PEAK	100.000	225.100
2	*	2064.800	6.283	52.700	58.983	-15.017	74.000	PEAK	100.000	129.500
3		2794.100	7.718	48.600	56.318	-17.682	74.000	PEAK	100.000	52.300

## Note:

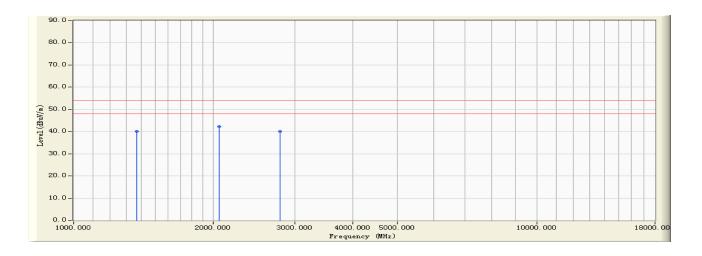
- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

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Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/03/07 - 20:48
Limit : FCC_15_03M_AV	Margin : 6
EUT : LCD Monitor	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Full system (DVI mode 720*400@70Hz)



		Frequency	Correct	Reading	Measure	Margin	Limit	Detector	Ant Pos	Table Pos
		(MHz)	Factor (dB)	Level	Level	(dB)	(dBuV/m)	Туре	(cm)	(deg)
				(dBuV)	(dBuV/m)					
1		1369.700	4.463	35.600	40.063	-13.937	54.000	AVERAGE	100.000	225.100
2	*	2064.800	6.283	35.900	42.183	-11.817	54.000	AVERAGE	100.000	129.500
3		2794.100	7.718	32.400	40.118	-13.882	54.000	AVERAGE	100.000	52.300

## Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

Test engineer:

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