

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. W2363VV

FCC ID BEJW2363VV

Trade Name LG

- The test result refers exclusively to the test presented test model / sample.
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- The test report must not be used by the clients to claim product certification approval by **NVLAP** or any agency of the Government.

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Report No.: 0906013-SF-01V02

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Document history

Report No.: 0906013-SF-01V02

Attachment No.	Date	Description
0906013-SF-01V02	Jun 19, 2009	First issue

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John Wang

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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

Equipment LCD Monitor

Model No. W2363VV

BEJW2363VV FCC ID

Trade Name LG

(athy Ohen

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 Jun 05, 2009 at Cerpass Technology Corp.

Approved By: Documented By:

Cathy Chen/ Administration John Wang/ Technical director

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1. Summary of Test Procedure and Test Result

Test Item	Normative References	Test Result
Conducted Emission	ANSI C63.4-2003	Door
Conducted Emission	FCC Part 15 Subpart B	Pass
Dedicted Emission	ANSI C63.4-2003	Deec
Radiated Emission	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:	W2363VV			
	Serial No :	N/A			
VGA Cable	Shielded, 1.8m, with two ferrite cores bonded				
VGA Cable	Shielded, 1.8m				
Power Supply	Power Supply Non-Shielded, 1.8m				
Note: The VGA cable is 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, Printer, USB Keyboard, USB Mouse , DVD,				
	Earphone and EUT for EMI test.				
С	During the test, Setup up the EUT and all system, turn on the power of all Equipment, run the				
	test software "H", 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(1920*1080@60Hz))				
	Test Mode 2: Full system (VGA mode(1024*768@60Hz))				
	Test Mode 3: Full system (VGA mode(640*480@60Hz))				
	Test Mode 4: Full system (DVI mode(1920*1080@60Hz))				
	Test Mode 5: Full system (DVI mode(1024*768@60Hz))				
	Test Mode 6: Full system (DVI mode(640*480@60Hz))				
	Test Mode 7: Full system (Ypbpr)				
	Test Mode 8: Full system (HDMI 11080P@60Hz)				
	Test Mode 9: Full system (HDMI 1 480P@60Hz)				
	Test Mode 10: Full system (HDMI 2 720P@60Hz)				
Select th	Select the worst case of the pre-test modes as the final test mode				
	Test Mode 1: Full system (VGA mode(1920*1080@60Hz))				

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2.3. Description of Test System

No	Device	Manufacturer	Model No.	Description
1	Printer	Epson	C59	N/A
2	PC	Dell	Dimension4700C	N/A
3	DVD Player	PIONEER	DV-600AV-S	N/A
4	Microphone&Earphone	SALAR	N/A	N/A
5	USB Keyboard	DELL	SK-8115	shielding, 1.85m
6	USB Mouse	DELL	G0K02XYK	shielding, 1.85m
7	USB Mouse	DELL	G0K02XZQ	shielding, 1.85m
8	DVD Player	PIONEER	DV-989AV	N/A

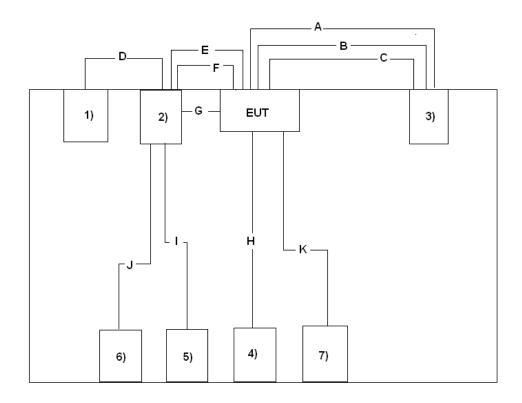
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2.4. Connection Diagram of Test System



No	Cable	Quantity	Description
Α	Audio Cable	1	Shielded, 1.5m
В	Ypbpr Cable	1	Shielded, 1.5m
С	HDMI Cable	1	Shielded, 1.8, with two ferrite core bonded
D	Parallel Cable	1	Shielded, 1.5m
Е	DVI Cable	1	Shielded, 1.5m
F	Audio Cable	1	Non-Shielded, 1.5m
G	VGA Cable	1	Shielded, 1.5m
Н	Audio Cable	1	Non-Shielded, 3m
I	USB Cable	1	Shielded, 1.8m

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2.5. General Information of Test

Test Site :	Cerpass Technology Corp.	chnology Corp.		
Performed Location	No.66, Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China			
NVLAP LAB Code :	200814-0			
FCC Registration Number :	632249 (Taipei)	916572 (SuZhou)		
IC Registration Number :	6597A-1 (Taipei)	7290A-1 (SuZhou)		
VCCI Registration Number :	T-338 for Telecommunication Test (Taipei) C-2188 for Conducted emission test (Taipei) R-1902 for Radiated emission test (Taipei)			
Ç	T-343 for Telecommunication Test (Suzhou) C-2919 for Conducted emission test (Suzhou) R-2670 for Radiated emission test (Suzhou)			
Test Voltage:	AC 120V/ 60Hz			
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart B			
Frequency Range Investigated :	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 1,000 MHz Radiation: from 1GHz to18GHz			
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.			

Laboratory accreditation









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2.6. Measurement Uncertainty

Conducted Emiss	sion				
The measuremen	The measurement uncertainty is evaluated as ± 2.24 dB.				
Radiated Emission	Radiated Emission				
(30MHz -1000MH	(30MHz -1000MHz) The measurement uncertainty is evaluated as ± 2.98 dB.				
(1G-18GHz)	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.

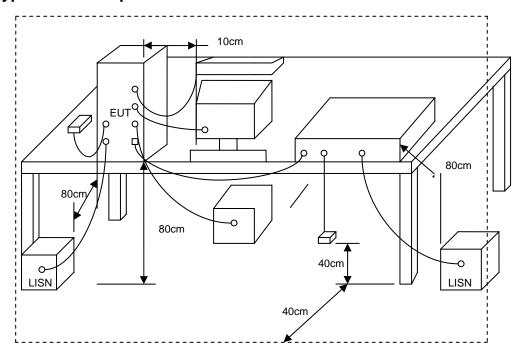
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3.3. Typical test Setup

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3.4. Measurement equipment

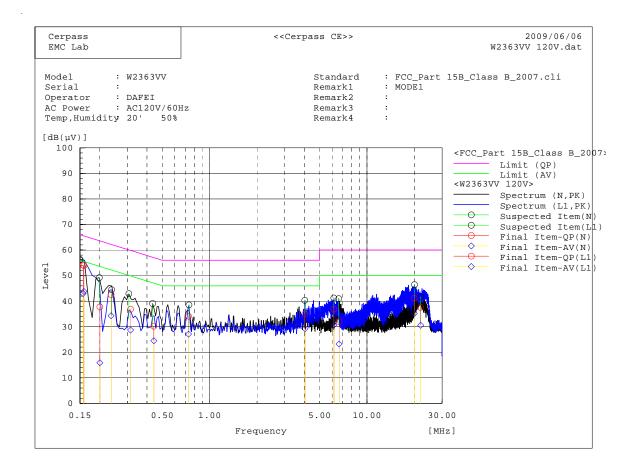
Instrument	Manufacturer	Model No.	Serial No.	Calibration Data
EMC Emission Tester	EMCPARTNER	Harmonics-1000	159	2008.06.30
Test Receiver	R&S	ESCI	100565	2008.06.30
AMN	R&S	ESH2-Z5	100182	2008.06.30
Two-Line V-Network	R&S	ENV216	100325	2008.06.30
ISN	FCC	FCC-TLISN-T2-02	20379	2008.06.30
ISN	FCC	FCC-TLISN-T4-02	20380	2008.06.30
ISN	FCC	FCC-TLISN-T8-02	20381	2008.06.30
Current Probe	R&S	EZ-17	100303	2008.06.30
Passive Voltage Probe	R&S	ESH2-Z3	100026	2008.06.30
Decoupling Clamp	LUTHI	FTC 40 X 15 E	5685	2008.11.01
Absorbing Clamp	Schwarzbeck	MDS21	3753	2008.11.01
Minimum Loss Pad	Agilent	11852B	61650	2008.06.30
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2008.09.24

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3.5. Test Result and Data

Standard	:	FCC_Part 15B_Class B_2007	Date/Time	:	2009.06.06
Model	: W2363VV		Serial	:	N/A
Operator	:	DAFEI	AC Power	:	AC120V/60Hz
Temp	:	20'	Humidity	:	50%
Remark	:	Test Mode 1: Full system (VGA mode(1920*1080@60Hz))			

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Final Data List

Frequenc	Line	Reading	Reading	Factor	Level	Level	Limit	Limit	Margin	Margin	Pass/Fail
у	Phase	dB(uV)	dB(uV)	dB	dB(uV)	dB(uV)	dB(uV)	dB(uV)	dB	dB	
MHz		QP	AV		QP	AV	QP	AV	QP	AV	
0.15698	L1	44.8	33.6	9.4	54.2	43.0	65.6	55.6	11.4	12.6	Pass
0.23623	L1	33.0	24.7	9.6	42.6	34.3	62.2	52.2	19.6	17.9	Pass
0.73413	L1	24.4	17.4	9.7	34.1	27.1	56.0	46.0	21.9	18.9	Pass
6.1588	L1	27.1	20.9	9.8	36.9	30.7	60.0	50.0	23.1	19.3	Pass
19.9848	L1	31.2	25.2	10.0	41.2	35.2	60.0	50.0	18.8	14.8	Pass
4.02893	L1	25.3	19.5	9.7	35.0	29.2	56.0	46.0	21.0	16.8	Pass
0.15883	N	44.6	34.5	9.3	53.9	43.8	65.5	55.5	11.6	11.7	Pass
0.20073	N	27.9	6.0	9.9	37.8	15.9	63.6	53.6	25.8	37.7	Pass
0.31432	N	27.0	18.9	9.8	36.8	28.7	59.9	49.9	23.1	21.2	Pass
0.44187	N	20.5	14.8	9.7	30.2	24.5	57.0	47.0	26.8	22.5	Pass
6.6403	N	22.2	13.4	9.8	32.0	23.2	60.0	50.0	28.0	26.8	Pass
21.9236	N	27.5	20.5	10.1	37.6	30.6	60.0	50.0	22.4	19.4	Pass

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Note: Measurement Level = Reading Level + Correct Factor

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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)	(MHz) (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)
18000-40000 1		84(PK)	64(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 or 1 meter.

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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. Radiated was performed at an antenna to EUT distance of 3 meters.

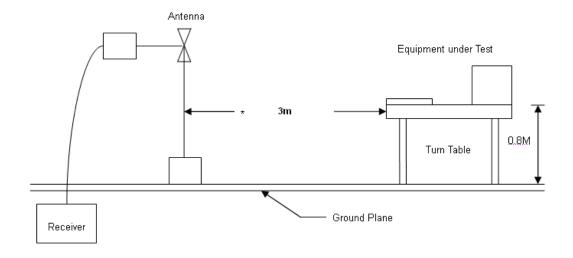
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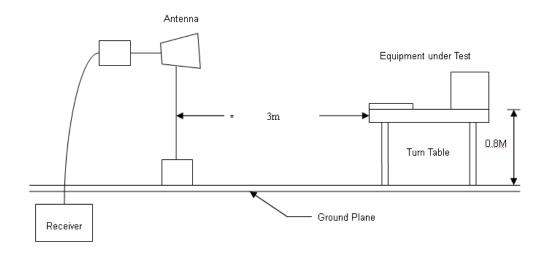


4.3. Typical test Setup

Below 1GHz Test Setup



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	100564	2008.06.30	
Preamplifier	Agilent	87405B	My39500554	2008.11.04	
Preamplifier	R&S	PR-AMP26	1248791	2008.06.30	
Ultra Broadband	D.O.C.	111.500	400202	2000 44 04	
Antenna	R&S	HL562	100362	2008.11.04	
Broad-Band Horn	Schwarzbeck	BBHA9120D	9120D-619	2000 00 20	
Antenna	Schwarzbeck	DDHA9120D	91200-619	2008.09.26	
Spectrum Analyzer	R&S	FSP40	100324	2008.09.28	
Temperature/	7hiahana	704.44	OFD TH 004	2000 00 24	
Humidity Meter	Zhicheng	ZC1-11	CEP-TH-001	2008.09.24	

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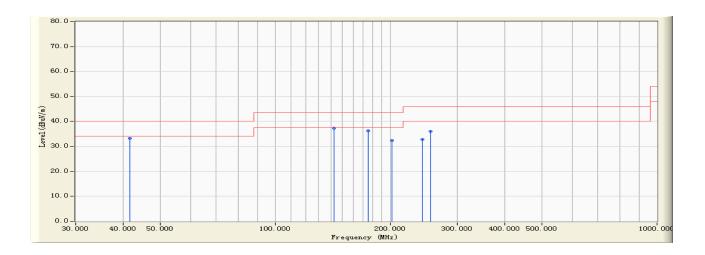
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4.5. Test Result and Data

Engineer : FRED	
Site : EMC Lab AC 102	Time : 2009/06/08- 08:30
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : LCD MONITOR	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC120/60Hz	Test Mode 1: Full system (VGA mode(1920*1080@60Hz))

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		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		41.617	-11.299	44.591	33.291	-6.709	40.000	QUASIPEAK
2	*	142.295	-15.019	52.311	37.292	-6.208	43.500	QUASIPEAK
3		175.210	-14.839	51.038	36.199	-7.301	43.500	QUASIPEAK
4		202.315	-15.335	47.673	32.339	-11.161	43.500	QUASIPEAK
5		242.974	-13.005	45.846	32.840	-13.160	46.000	QUASIPEAK
6		254.591	-12.591	48.682	36.091	-9.909	46.000	QUASIPEAK

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 : FRED

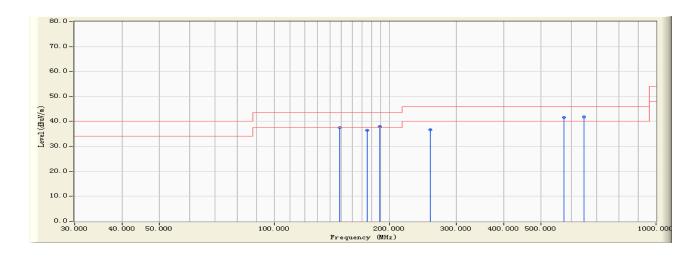
 Site : EMC Lab AC 102
 Time : 2009/06/08- 08:31

 Limit : FCC_CLASS_B_03M_QP
 Margin : 6

 EUT : LCD MONITOR
 Probe : HL562(30-1000MHz) - VERTICAL

 Power : AC120/60Hz
 Test Mode 1: Full system (VGA mode(1920*1080@60Hz))

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		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		148.104	-15.300	52.740	37.440	-6.060	43.500	QUASIPEAK
2		175.210	-14.839	51.270	36.431	-7.069	43.500	QUASIPEAK
3	*	188.762	-15.338	53.355	38.017	-5.483	43.500	QUASIPEAK
4		256.527	-12.527	49.097	36.569	-9.431	46.000	QUASIPEAK
5		574.052	-3.192	44.812	41.621	-4.379	46.000	QUASIPEAK
6	*	647.625	-1.504	43.365	41.861	-4.139	46.000	QUASIPEAK

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.
- Measurement Level = Reading Level + Correct Factor

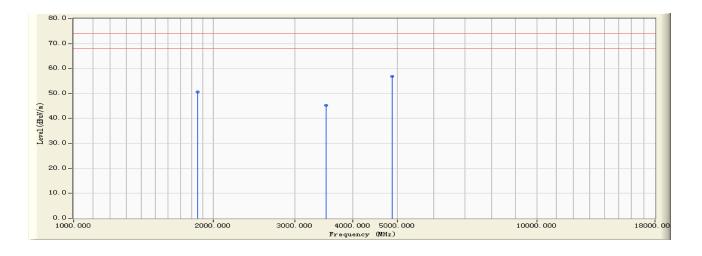
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Engineer : FRED	
Site : EMC Lab AC 102	Time : 2009/06/08- 08:58
Limit : FCC_15_03M_PK	Margin : 6
EUT : LCD MONITOR	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC120/60Hz	Test Mode 1: Full system (VGA mode(1920*1080@60Hz))

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		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		1854.000	-7.522	58.200	50.678	-23.322	74.000	PEAK
2		3514.000	-3.953	49.200	45.247	-28.753	74.000	PEAK
3	*	4874.000	0.778	56.100	56.877	-17.123	74.000	PEAK

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.
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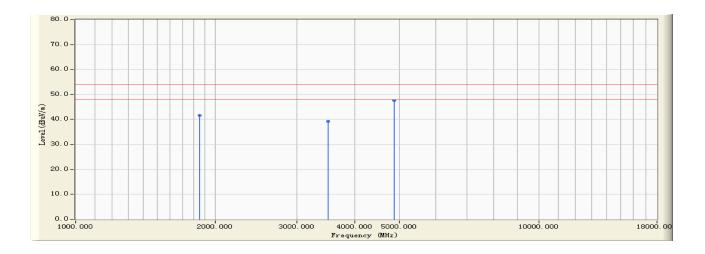
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Engineer : FRED	
Site : EMC Lab AC 102	Time : 2009/06/08- 08:58
Limit : FCC_15_03M_AV	Margin : 6
EUT : LCD MONITOR	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC120/60Hz	Test Mode 1: Full system (VGA mode(1920*1080@60Hz))

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		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		1854.000	-7.522	49.200	41.678	-12.322	54.000	AVERAGE
2		3514.000	-3.953	43.200	39.247	-14.753	54.000	AVERAGE
3	*	4874.000	0.778	46.800	47.577	-6.423	54.000	AVERAGE

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

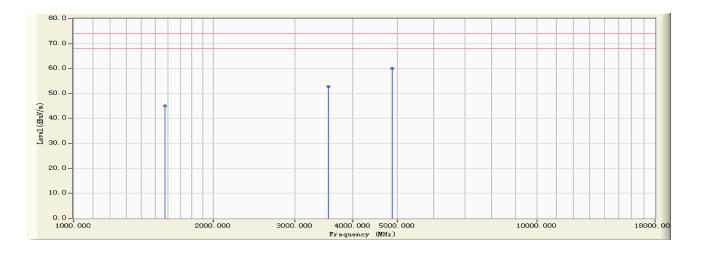
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Engineer : FRED	
Site : EMC Lab AC 102	Time : 2009/06/08- 08:58
Limit : FCC_15_03M_PK	Margin : 6
EUT : LCD MONITOR	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC120/60Hz	Test Mode 1: Full system (VGA mode(1920*1080@60Hz))

Report No.: 0906013-SF-01V02



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		1574.000	-11.291	56.300	45.009	-28.991	74.000	PEAK
2		3547.000	-3.758	56.500	52.742	-21.258	74.000	PEAK
3	*	4874.000	0.778	59.200	59.977	-14.023	74.000	PEAK

Note:

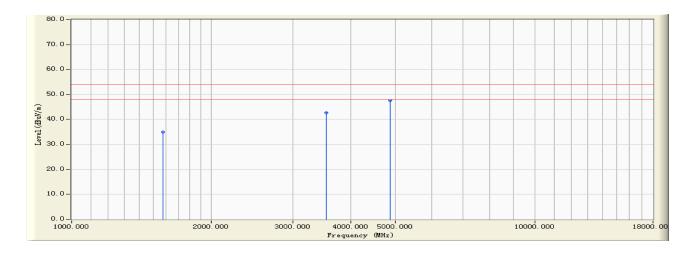
- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

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Engineer : FRED			
Site : EMC Lab AC 102	Time : 2009/06/08- 08:58		
Limit : FCC_15_03M_AV	Margin : 6		
EUT : LCD MONITOR	Probe : BBHA9120D(1-18GHz) - VERTICAL		
Power : AC120/60Hz	Test Mode 1: Full system (VGA mode(1920*1080@60Hz))		

Report No.: 0906013-SF-01V02



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		1574.000	-11.291	46.200	34.909	-19.091	54.000	AVERAGE
2		3547.000	-3.758	46.500	42.742	-11.258	54.000	AVERAGE
3	*	4874.000	0.778	46.800	47.577	-6.423	54.000	AVERAGE

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

Fred Guo
Test engineer: