

Application for FCC Certificate
On Behalf of
LG Electronics U.S.A., Inc.

LCD Monitor

Model No.: IPS234VA

FCC ID : BEJIPS234VA

Prepared For : LG Electronics U.S.A., Inc.
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Date of Test : Apr 01 – 03, 2013
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TEST REPORT FOR FCC CERTIFICATE

Applicant : LG Electronics U.S.A., Inc.
Manufacturer : LG Electronics Nanjing Display Co., Ltd.
EUT Description : LCD Monitor
(A) Model No. : IPS234VA
(B) Serial No. : N/A
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2012
AND ANSI C63.4-2003*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B (Class B) and ICES-003, Issue 4 February 2004 (CISPR 22:2002) limits both radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: IPS234VA) which was tested in 3m anechoic chamber Apr 01 – 03, 2013 is technically compliance with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Apr 01 – 03, 2013 Date of Report : Apr 12, 2012

Producer : Yenny Yu
YENNY YU Assistant

Review : Dio Yang
DIO YANG / Assistant Manager

 For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory : Sammy Chen
Authorized Signature EMC SAMMY CHEN / Deputy Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description of Test Item	Standard	Limits	Results
EMISSION			
Conducted Disturbance at the Mains Terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2012 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2012 AND ANSI C63.4-2003	15.109(a) Class B	Pass

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : LCD Monitor

Model No. : IPS234VA

Note : The different list for all the models are as follows:

Report No.	Model No.	Rev. Summary	Edition No.	Data of Rev.
ACI-F12040	IPS234VA	Original Report	0	Mar 14, 2012
ACI- F12040A1	IPS234VA	To add six adapters.	Rev. A1	Oct 17, 2012
ACI-F12040A2	IPS234VA	To add a new Panel.	Rev. A2	Apr 12, 2013

AC Adapter #1 : Manufacturer : LIEN CHANG
 Model Number : LCAP21A
 Input : 100-240V~, 50-60Hz 1.1A
 Output : 19V $\overline{\text{---}}$ 1.7A
 Output Cable : Unshielded, Undetachable, 1.8m, with one core

AC Adapter #2 : Manufacturer : HONOR
 Model Number : ADS-40SG-19-3 19032G
 Input : 100-240V~, 50-60Hz 1.0A
 Output : 19V $\overline{\text{---}}$ 1.7A
 Output Cable : Unshielded, Undetachable, 1.8m

AC Adapter #3 : Manufacturer : HONOR
 Model Number : ADS-40FSG-19 19032G***-1
 (***) can be PG, PBR, PI, PCU,
 ADS-40FSG-19 19032GPCU-1 was selected
 as the test model.)
 Input : 100-240V~, 50-60Hz 1.0A
 Output : 19V $\overline{\text{---}}$ 1.7A
 Output Cable : Unshielded, Undetachable, 1.8m

AC Adapter #4 : Manufacturer : LIEN CHANG
 Model Number : LCAP26A-*
 (* can be A, E, I, B, LCAP26A-A was selected
 as the test model.)
 Input : 100-240V~, 50-60Hz 1.1A
 Output : 19V $\overline{\text{---}}$ 1.7A
 Output Cable : Unshielded, Undetachable, 1.8m

AC Adapter #5 : Manufacturer : LIEN CHANG
 Model Number : LCAP21
 Input : 100-240V~, 50-60Hz 1.1A
 Output : 19V $\overline{\text{---}}$ 1.3A
 Output Cable : Unshielded, Undetachable, 1.8m, with one core

AC Adapter #6	:	Manufacturer	: HONOR
	:	Model Number	: ADS-40FSG-19 19025G*** (*** can be PG-1, PBR-1, PI-1, PCU-1, PB-2, ADS-40FSG-19 19025GPCU-1 was selected as the test model.)
	:	Input	: 100-240V~, 50-60Hz 1.1A
	:	Output	: 19V $\overline{\text{---}}$ 1.3A
	:	Output Cable	: Unshielded, Undetachable, 1.8m
AC Adapter #7	:	Manufacturer	: LG
	:	Model Number	: PSAB-L202* (* can be A, B, C, D, A, B, C, D stand for different AC plug type. PSAB-L202C was selected as the test model.)
	:	Input	: 100-240V~, 50/60Hz 1.1A
	:	Output	: 19V $\overline{\text{---}}$ 1.3A
	:	Output Cable	: Unshielded, Undetachable, 1.8m, with one core
AC Adapter #8	:	Manufacturer	: LIEN CHANG
	:	Model Number	: LCAP26-* (* can be A, E, I, B, LCAP26-A was selected as the test model.)
	:	Input	: 100-240V~, 50-60Hz 1.1A
	:	Output	: 19V $\overline{\text{---}}$ 1.3A
	:	Output Cable	: Unshielded, Undetachable, 1.8m
AC Adapter #9	:	Manufacturer	: HONOR
	:	Model Number	: ADS-40SG-19-3 19025G
	:	Input	: 100-240V~, 50/60Hz 1.0A
	:	Output	: 19V $\overline{\text{---}}$ 1.3A
	:	Output Cable	: Unshielded, Undetachable, 1.8m
AC Adapter #10	:	Manufacturer	: LG
	:	Model Number	: PSAB-L203A
	:	Input	: 100-240V~, 50-60Hz 1.0A
	:	Output	: 19V $\overline{\text{---}}$ 1.3A
	:	Output Cable	: Unshielded, Undetachable, 1.8m, with one core
Applicant	:	LG Electronics U.S.A., Inc. No.346, YaoXin Road Economic&Technical Development Zone, Nanjing, China	
Manufacturer	:	LG Electronics Nanjing Display Co., Ltd. No.346, YaoXin Road Economic&Technical Development Zone, Nanjing, China	
LCD Panel	:	Manufacturer	: LG Electronics Inc.
	:	M/N	: LGM230BA41

Max Resolution	: 1920*1080@60Hz
D-Sub Cable #1	: Shielded, Detachable, 1.85m, with two cores on cable
D-Sub Cable #2	: Shielded, Detachable, 1.50m, with two cores in connector
DVI Cable #1	: Shielded, Detachable, 1.85m, with two cores on cable
DVI Cable #2	: Shielded, Detachable, 1.50m, with two cores in connector
Power Cord	Unshielded, Detachable, 1.50m
Note	: The D-Sub cable #2 and DVI cable #2 were selected to be used in the test.

Remark:

The EUT is a LCD Monitor which input/output ports as follows:

- | | |
|-----------------------|----------------------------------|
| (1) One D-Sub Port | : Connected with PC |
| (2) One DVI Port | : Connected with PC |
| (3) One HDMI Port | : Connected with DVD PLAYER / PC |
| (4) One Earphone Port | : Connected with Earphone |
| (5) One DC In Port | : Connected with Adapter |

2.2 Peripherals

2.2.1 PC

Manufacturer	: HP
Model Number	: dx7200MT
Serial Number	: CNG622017W
Power Cord	: Unshielded, Detachable, 1.8m
Certificate	: FCC DoC; CE/EMC; VCCI; C-Tick; UL BSMI (R33001) 3C (A000111) MIC (E-A011-04-2659(B))

2.2.2 Graphics Card (Used in PC)

Manufacturer	: Asus
Model Number	: EAH6670
Output port	: DVI, D-Sub, HDMI

2.2.3 Printer #1

Manufacturer	: HP
Model Number	: C3990A
Serial Number	: JPZX020487
Data Cable	: Shielded, Detachable, 1.5m
Certificate	: GS, CE/EMC, C-Tick, FCC DoC

2.2.4 Printer #2

Manufacturer : HP
Model Number : p1007
Serial Number : VNFN713831
Data Cable : Shielded, Detachable, 1.5m
Certificate : GS, CE/EMC, C-Tick, FCC DoC

2.2.5 Keyboard

Manufacturer : Microsoft
Model Number : RT2300
Serial Number : 7668200662248
Data Cable : Shielded, Undetachable, 1.8m
Certificate : CE/EMC, FCC DoC, VCCI, MIC, C-Tick, BSMI

2.2.6 Mouse

Manufacturer : Microsoft
Model Number : RT2300
Serial Number : 6965712071551
Data Cable : Shielded, Undetachable, 1.8m.
Certificate : CE/EMC, FCC DoC, VCCI, MIC, C-Tick, BSMI

2.2.7 Modem

Manufacturer : TP-LINK
Model Number : TM-EC5658V
Serial Number : 07123301053
Data Cable : Shielded, Detachable, 1.8m
Certificate : FCC DoC, CE/EMC, CCC

2.2.8 DVD PLAYER

Manufacturer : PHILIPS
Model Number : DVP3986K/93
Serial Number : KX1A0902120082
Data Cable : Shielded, Detachable, 1.50m
Certificate : FCC DoC, CE/EMC, CCC

2.2.9 Earphone

Manufacturer : SONY
Model Number : MDR-E808

2.3 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on
Mar 16, 2012 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai 200233, China

NVLAP Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 3.42 dB

Radiated Emission Expanded Uncertainty (30-200MHz):
U = 4.14 dB (Horizontal)
U = 4.28 dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):
U = 4.18 dB (Horizontal)
U = 4.26 dB (Vertical)

Radiated Emission Expanded Uncertainty (Above 1GHz):
U= 4.50 dB (Horizontal)
U= 4.16 dB (Vertical)

3 CONDUCTED EMISSION TEST

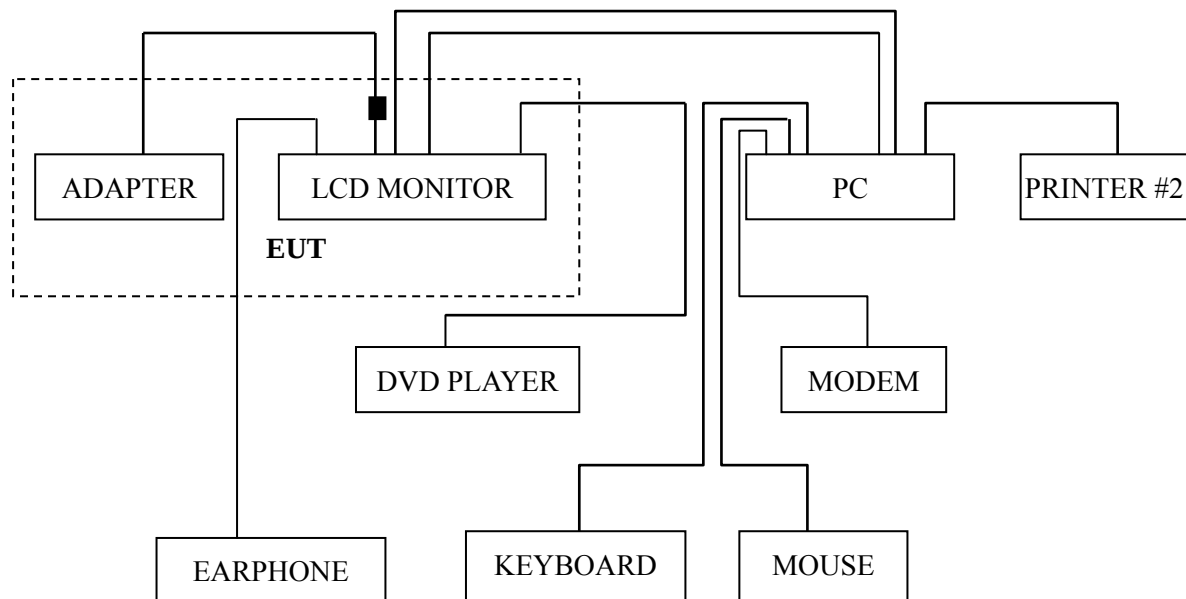
3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	100841	Mar 22, 2013	Mar 22, 2014
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Feb 25, 2013	Feb 25, 2014
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Mar 20, 2013	Mar 20, 2014
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Mar 18, 2013	Sep 18, 2013
5.	50 Ω Terminator	Anritsu	BNC	001	Mar 22, 2013	Mar 22, 2014
6.	Software	Audix	E3	SET00200 9804M592	--	--

3.2 Block Diagram of Test Setup

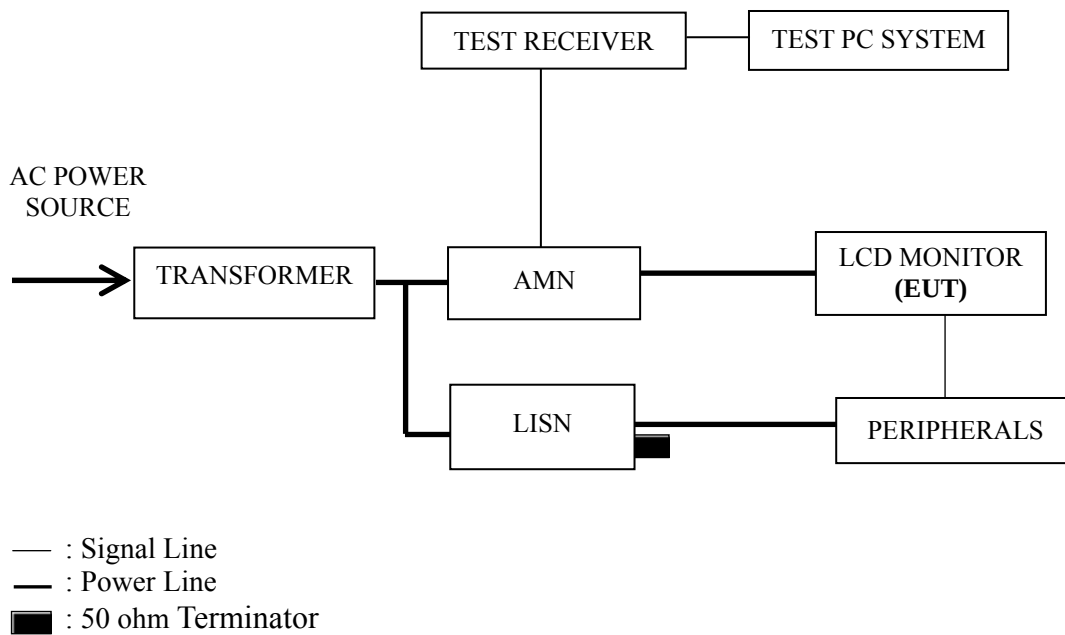
3.2.1 EUT & Peripherals



■ : Ferrite core

Note: Ferrite core only for Adapter #1, #5, #7, #10

3.2.2 Conducted Disturbance Test Setup



3.3 Conducted Emission Limit [FCC Part 15 Subpart B 15.107(a)]

Frequency Range (MHz)	Limits dB (μV)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE 1 – The lower limit shall apply at the transition frequencies.
 NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the peripherals (listed in Sec 2.2) were installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT and peripherals as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipments and the EUT.

3.5.3 Set the contrast & brightness of EUT to maximum.

3.5.4 PC system ran the self-test program "EMC Test" by windows XP and sent "H" characters to EUT through graphic card (we use white letters on a black background to represent all colors), the EUT's screen displayed and filled with "H" pattern by its resolution (Via D-Sub/DVI Input).

3.5.5 In HDMI mode, the EUT connected to PC or DVD PLAYER through HDMI port.

3.5.6 Repeat above procedure from 3.5.3 to 3.5.4 for difference test mode.

3.5.7 The other peripherals devices were driven and operated during the test.

3.5.8 The test modes are as follows:

Adapter	Test Mode
Adapter #1	D-Sub 1920*1080@60Hz
	DVI 1920*1080@60Hz
	HDMI 1920*1080@60Hz
	HDMI 1080P
	DVI 1280*1024@75Hz
	DVI 640*480@60Hz
Adapter #2	DVI 640*480@60Hz
Adapter #3	DVI 640*480@60Hz
Adapter #4	DVI 640*480@60Hz
Adapter #5	DVI 640*480@60Hz
Adapter #6	DVI 640*480@60Hz
Adapter #7	DVI 640*480@60Hz
Adapter #8	DVI 640*480@60Hz
Adapter #9	DVI 640*480@60Hz
Adapter #10	DVI 640*480@60Hz

NOTE: We tested the EUT with adapter #1 and selected the worst test mode to perform test with adapter #2/#3/#4/#5/#6/#7/#8/#9/#10.

3.6 Test Procedures

The EUT and peripherals were connected to the power mains through an Artificial Mains Network (AMN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of R&S Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

3.7 Test Results

< PASS >

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

Adapter	Test Mode	Page
Adapter #1	D-Sub 1920*1080@60Hz	P14
	DVI 1920*1080@60Hz	P15
	HDMI 1920*1080@60Hz	P16
	HDMI 1080P	P17
	DVI 1280*1024@75Hz	P18
	DVI 640*480@60Hz	P19
Adapter #2	DVI 640*480@60Hz	P20
Adapter #3	DVI 640*480@60Hz	P21
Adapter #4	DVI 640*480@60Hz	P22
Adapter #5	DVI 640*480@60Hz	P23
Adapter #6	DVI 640*480@60Hz	P24
Adapter #7	DVI 640*480@60Hz	P25
Adapter #8	DVI 640*480@60Hz	P26
Adapter #9	DVI 640*480@60Hz	P27
Adapter #10	DVI 640*480@60Hz	P28

NOTE 1 – The **bold test mode** listed above means the worst test mode.

NOTE 2 – Factor = Cable Loss + AMN Factor.

NOTE 3 – Emission Level = Meter Reading + Factor.

NOTE 4 – “QP” means “Quasi-Peak” values, “AV” means “Average” values.

NOTE 5 – The worst case is for DVI 640*480@60Hz test mode (Adapter #2).

The worst emission is detected at 0.190 MHz (Quasi-Peak Value) with corrected signal level of 58.64 dB (μV) (limit is 64.02 dB (μV)), when the Line of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : LCAP21A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.186	46.61	0.25	46.86	64.20	17.34	QP
	0.256	37.88	0.25	38.13	61.56	23.43	
	0.320	35.03	0.29	35.32	59.71	24.39	
	0.456	30.02	0.35	30.37	56.76	26.39	
	4.454	39.92	0.50	40.42	56.00	15.58	
	15.226	44.12	0.84	44.96	60.00	15.04	
	0.186	35.85	0.25	36.10	64.20	28.10	AV
	0.256	26.60	0.25	26.85	61.56	34.71	
	0.320	24.48	0.29	24.77	59.71	34.94	
	0.456	20.10	0.35	20.45	56.76	36.31	
	4.454	29.14	0.50	29.64	56.00	26.36	
	15.226	33.90	0.84	34.74	60.00	25.26	
Neutral	0.188	48.07	0.12	48.19	64.11	15.92	QP
	0.253	41.25	0.11	41.36	61.64	20.28	
	0.320	38.38	0.13	38.51	59.71	21.20	
	0.466	34.01	0.17	34.18	56.58	22.40	
	4.315	42.92	0.40	43.32	56.00	12.68	
	16.226	42.98	0.74	43.72	60.00	16.28	
	0.188	37.58	0.12	37.70	64.11	26.41	AV
	0.253	30.96	0.11	31.07	61.64	30.57	
	0.320	27.56	0.13	27.69	59.71	32.02	
	0.466	24.25	0.17	24.42	56.58	32.16	
	4.315	31.49	0.40	31.89	56.00	24.11	
	16.226	31.88	0.74	32.62	60.00	27.38	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 1920*1080@60Hz Adapter #1 : LCAP21A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.186	46.52	0.25	46.77	64.20	17.43	QP
	0.253	38.13	0.25	38.38	61.64	23.26	
	0.317	35.07	0.29	35.36	59.80	24.44	
	0.440	30.49	0.35	30.84	57.07	26.23	
	4.315	42.85	0.49	43.34	56.00	12.66	
	16.226	43.20	0.85	44.05	60.00	15.95	
	0.186	36.25	0.25	36.50	64.20	27.70	AV
	0.253	28.45	0.25	28.70	61.64	32.94	
	0.317	24.64	0.29	24.93	59.80	34.87	
	0.440	19.88	0.35	20.23	57.07	36.84	
	4.315	31.84	0.49	32.33	56.00	23.67	
	16.226	33.55	0.85	34.40	60.00	25.60	
Neutral	0.186	48.19	0.12	48.31	64.20	15.89	QP
	0.252	41.52	0.11	41.63	61.69	20.06	
	0.329	38.71	0.14	38.85	59.49	20.64	
	0.456	34.55	0.17	34.72	56.76	22.04	
	4.315	42.73	0.40	43.13	56.00	12.87	
	15.226	43.37	0.73	44.10	60.00	15.90	
	0.186	37.65	0.12	37.77	64.20	26.43	AV
	0.252	30.43	0.11	30.54	61.69	31.15	
	0.329	27.36	0.14	27.50	59.49	31.99	
	0.456	23.00	0.17	23.17	56.76	33.59	
	4.315	31.66	0.40	32.06	56.00	23.94	
	15.226	32.72	0.73	33.45	60.00	26.55	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : HDMI 1920*1080@60Hz Adapter #1 : LCAP21A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.186	46.66	0.25	46.91	64.20	17.29	QP
	0.244	38.09	0.25	38.34	61.95	23.61	
	0.325	35.04	0.30	35.34	59.57	24.23	
	0.440	30.68	0.35	31.03	57.07	26.04	
	4.315	41.45	0.49	41.94	56.00	14.06	
	16.226	42.68	0.85	43.53	60.00	16.47	
	0.186	37.00	0.25	37.25	64.20	26.95	AV
	0.244	27.92	0.25	28.17	61.95	33.78	
	0.325	24.81	0.30	25.11	59.57	34.46	
	0.440	19.17	0.35	19.52	57.07	37.55	
	4.315	30.25	0.49	30.74	56.00	25.26	
	16.226	31.85	0.85	32.70	60.00	27.30	
Neutral	0.188	47.88	0.12	48.00	64.11	16.11	QP
	0.256	40.78	0.11	40.89	61.56	20.67	
	0.329	38.79	0.14	38.93	59.49	20.56	
	0.476	34.60	0.17	34.77	56.41	21.64	
	4.622	39.61	0.42	40.03	56.00	15.97	
	15.226	45.37	0.73	46.10	60.00	13.90	
	0.188	37.15	0.12	37.27	64.11	26.84	AV
	0.256	30.26	0.11	30.37	61.56	31.19	
	0.329	27.52	0.14	27.66	59.49	31.83	
	0.476	24.23	0.17	24.40	56.41	32.01	
	4.622	28.56	0.42	28.98	56.00	27.02	
	15.226	34.85	0.73	35.58	60.00	24.42	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : HDMI 1080P Adapter #1 : LCAP21A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.162	51.30	0.22	51.52	65.34	13.82	QP
	0.240	43.05	0.23	43.28	62.08	18.80	
	0.516	34.27	0.31	34.58	56.00	21.42	
	1.744	29.37	0.44	29.81	56.00	26.19	
	5.005	32.51	0.55	33.06	60.00	26.94	
	6.488	29.99	0.64	30.63	60.00	29.37	
	0.162	42.57	0.22	42.79	55.34	12.55	AV
	0.240	32.40	0.23	32.63	52.08	19.45	
	0.516	23.31	0.31	23.62	46.00	22.38	
	1.744	18.69	0.44	19.13	46.00	26.87	
	5.005	21.64	0.55	22.19	50.00	27.81	
	6.488	19.39	0.64	20.03	50.00	29.97	
Neutral	0.168	51.46	0.19	51.65	65.08	13.43	QP
	0.240	42.39	0.18	42.57	62.08	19.51	
	0.452	36.36	0.24	36.60	56.85	20.25	
	1.054	32.01	0.44	32.45	56.00	23.55	
	4.315	31.93	0.74	32.67	56.00	23.33	
	6.186	30.44	0.90	31.34	60.00	28.66	
	0.168	42.67	0.19	42.86	55.08	12.22	AV
	0.240	31.56	0.18	31.74	52.08	20.34	
	0.452	26.15	0.24	26.39	46.85	20.46	
	1.054	21.40	0.44	21.84	46.00	24.16	
	4.315	21.41	0.74	22.15	46.00	23.85	
	6.186	20.16	0.90	21.06	50.00	28.94	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #1 : LCAP21A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.186	43.90	0.25	44.15	64.20	20.05	QP
	0.252	36.94	0.25	37.19	61.69	24.50	
	0.325	32.94	0.30	33.24	59.57	26.33	
	0.499	32.75	0.35	33.10	56.01	22.91	
	4.269	42.08	0.49	42.57	56.00	13.43	
	16.486	43.92	0.86	44.78	60.00	15.22	
	0.186	32.67	0.25	32.92	64.20	31.28	AV
	0.252	26.85	0.25	27.10	61.69	34.59	
	0.325	22.41	0.30	22.71	59.57	36.86	
	0.499	22.13	0.35	22.48	56.01	33.53	
	4.269	31.58	0.49	32.07	56.00	23.93	
	16.486	33.48	0.86	34.34	60.00	25.66	
Neutral	0.186	46.01	0.12	46.13	64.20	18.07	QP
	0.252	39.52	0.11	39.63	61.69	22.06	
	0.336	38.67	0.14	38.81	59.31	20.50	
	0.573	34.56	0.18	34.74	56.00	21.26	
	4.158	42.18	0.40	42.58	56.00	13.42	
	16.486	43.77	0.75	44.52	60.00	15.48	
	0.186	36.15	0.12	36.27	64.20	27.93	AV
	0.252	29.41	0.11	29.52	61.69	32.17	
	0.336	29.05	0.14	29.19	59.31	30.12	
	0.573	23.02	0.18	23.20	56.00	32.80	
	4.158	32.05	0.40	32.45	56.00	23.55	
	16.486	34.22	0.75	34.97	60.00	25.03	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 640*480@60Hz Adapter #1 : LCAP21A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.186	46.35	0.25	46.60	64.20	17.60	QP
	0.252	37.77	0.25	38.02	61.69	23.67	
	0.329	34.33	0.30	34.63	59.49	24.86	
	0.447	29.97	0.35	30.32	56.93	26.61	
	4.407	43.31	0.49	43.80	56.00	12.20	
	14.672	43.02	0.84	43.86	60.00	16.14	
	0.186	35.85	0.25	36.10	64.20	28.10	AV
	0.252	27.52	0.25	27.77	61.69	33.92	
	0.329	23.25	0.30	23.55	59.49	35.94	
	0.447	19.24	0.35	19.59	56.93	37.34	
	4.407	32.82	0.49	33.31	56.00	22.69	
	14.672	33.54	0.84	34.38	60.00	25.62	
Neutral	0.190	47.55	0.12	47.67	64.02	16.35	QP
	0.253	41.17	0.11	41.28	61.64	20.36	
	0.325	38.43	0.14	38.57	59.57	21.00	
	0.471	34.34	0.17	34.51	56.49	21.98	
	4.454	40.89	0.41	41.30	56.00	14.70	
	14.986	45.17	0.73	45.90	60.00	14.10	
	0.190	36.90	0.12	37.02	64.02	27.00	AV
	0.253	30.23	0.11	30.34	61.64	31.30	
	0.325	27.45	0.14	27.59	59.57	31.98	
	0.471	24.51	0.17	24.68	56.49	31.81	
	4.454	29.22	0.41	29.63	56.00	26.37	
	14.986	34.68	0.73	35.41	60.00	24.59	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 640*480@60Hz Adapter #2 : ADS-40SG-19-3
19032G

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.190	58.39	0.25	58.64	64.02	5.38	QP
	0.252	48.52	0.25	48.77	61.69	12.92	
	0.322	44.85	0.30	45.15	59.66	14.51	
	0.435	36.36	0.35	36.71	57.15	20.44	
	4.501	41.60	0.50	42.10	56.00	13.90	
	5.993	33.19	0.58	33.77	60.00	26.23	
	0.190	46.00	0.25	46.25	64.02	17.77	AV
	0.252	37.55	0.25	37.80	61.69	23.89	
	0.322	33.26	0.30	33.56	59.66	26.10	
	0.435	25.57	0.35	25.92	57.15	31.23	
	4.501	30.21	0.50	30.71	56.00	25.29	
	5.993	22.25	0.58	22.83	60.00	37.17	
Neutral	0.186	58.13	0.12	58.25	64.20	5.95	QP
	0.253	49.52	0.11	49.63	61.64	12.01	
	0.313	45.16	0.13	45.29	59.88	14.59	
	0.440	37.44	0.17	37.61	57.07	19.46	
	4.114	40.97	0.40	41.37	56.00	14.63	
	6.488	38.06	0.55	38.61	60.00	21.39	
	0.186	38.98	0.12	39.10	64.20	25.10	AV
	0.253	38.51	0.11	38.62	61.64	23.02	
	0.313	34.56	0.13	34.69	59.88	25.19	
	0.440	26.55	0.17	26.72	57.07	30.35	
	4.114	32.25	0.40	32.65	56.00	23.35	
	6.488	28.30	0.55	28.85	60.00	31.15	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 640*480@60Hz Adapter #3 : ADS-40FSG-19
19032GPCU-1

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.178	48.61	0.25	48.86	64.59	15.73	QP
	0.242	39.88	0.25	40.13	62.04	21.91	
	0.320	37.09	0.29	37.38	59.71	22.33	
	0.529	36.98	0.34	37.32	56.00	18.68	
	2.736	34.65	0.40	35.05	56.00	20.95	
	5.112	34.51	0.50	35.01	60.00	24.99	
	0.178	37.55	0.25	37.80	64.59	26.79	AV
	0.242	28.59	0.25	28.84	62.04	33.20	
	0.320	26.59	0.29	26.88	59.71	32.83	
	0.529	26.56	0.34	26.90	56.00	29.10	
	2.736	23.57	0.40	23.97	56.00	32.03	
	5.112	23.85	0.50	24.35	60.00	35.65	
Neutral	0.174	48.56	0.12	48.68	64.77	16.09	QP
	0.242	40.00	0.11	40.11	62.04	21.93	
	0.322	37.28	0.14	37.42	59.66	22.24	
	0.529	37.51	0.17	37.68	56.00	18.32	
	2.554	35.22	0.20	35.42	56.00	20.58	
	5.221	35.50	0.42	35.92	60.00	24.08	
	0.174	37.66	0.12	37.78	64.77	26.99	AV
	0.242	28.56	0.11	28.67	62.04	33.37	
	0.322	26.48	0.14	26.62	59.66	33.04	
	0.529	26.89	0.17	27.06	56.00	28.94	
	2.554	26.41	0.20	26.61	56.00	29.39	
	5.221	24.81	0.42	25.23	60.00	34.77	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 640*480@60Hz Adapter #4 : LCAP26A-A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.188	43.79	0.25	44.04	64.11	20.07	QP
	0.252	36.36	0.25	36.61	61.69	25.08	
	0.322	33.37	0.30	33.67	59.66	25.99	
	0.579	31.27	0.30	31.57	56.00	24.43	
	4.158	42.13	0.49	42.62	56.00	13.38	
	16.486	44.39	0.86	45.25	60.00	14.75	
	0.188	32.58	0.25	32.83	64.11	31.28	AV
	0.252	25.86	0.25	26.11	61.69	35.58	
	0.322	22.58	0.30	22.88	59.66	36.78	
	0.579	21.44	0.30	21.74	56.00	34.26	
	4.158	31.60	0.49	32.09	56.00	23.91	
	16.486	34.90	0.86	35.76	60.00	24.24	
Neutral	0.186	45.45	0.12	45.57	64.20	18.63	QP
	0.256	39.87	0.11	39.98	61.56	21.58	
	0.332	38.14	0.14	38.28	59.40	21.12	
	0.489	35.55	0.17	35.72	56.19	20.47	
	4.158	42.31	0.40	42.71	56.00	13.29	
	16.486	42.96	0.75	43.71	60.00	16.29	
	0.186	34.90	0.12	35.02	64.20	29.18	AV
	0.256	28.46	0.11	28.57	61.56	32.99	
	0.332	27.91	0.14	28.05	59.40	31.35	
	0.489	24.56	0.17	24.73	56.19	31.46	
	4.158	31.45	0.40	31.85	56.00	24.15	
	16.486	31.47	0.75	32.22	60.00	27.78	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 640*480@60Hz Adapter #5 : LCAP21

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.162	54.30	0.22	54.52	65.34	10.82	QP
	0.240	43.05	0.23	43.28	62.08	18.80	
	0.516	34.27	0.31	34.58	56.00	21.42	
	1.744	29.37	0.44	29.81	56.00	26.19	
	5.005	32.51	0.55	33.06	60.00	26.94	
	6.488	29.99	0.64	30.63	60.00	29.37	
	0.162	42.57	0.22	42.79	55.34	12.55	AV
	0.240	32.40	0.23	32.63	52.08	19.45	
	0.516	23.31	0.31	23.62	46.00	22.38	
	1.744	18.69	0.44	19.13	46.00	26.87	
	5.005	21.64	0.55	22.19	50.00	27.81	
	6.488	19.39	0.64	20.03	50.00	29.97	
Neutral	0.168	54.46	0.19	54.65	65.08	10.43	QP
	0.240	42.39	0.18	42.57	62.08	19.51	
	0.452	36.36	0.24	36.60	56.85	20.25	
	1.054	32.01	0.44	32.45	56.00	23.55	
	4.315	31.93	0.74	32.67	56.00	23.33	
	6.186	30.44	0.90	31.34	60.00	28.66	
	0.168	42.67	0.19	42.86	55.08	12.22	AV
	0.240	31.56	0.18	31.74	52.08	20.34	
	0.452	26.15	0.24	26.39	46.85	20.46	
	1.054	21.40	0.44	21.84	46.00	24.16	
	4.315	21.41	0.74	22.15	46.00	23.85	
	6.186	20.16	0.90	21.06	50.00	28.94	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 640*480@60Hz Adapter #6 : ADS-40FSG-19
19025GPCU-1

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.166	49.08	0.22	49.30	65.16	15.86	QP
	0.389	34.55	0.29	34.84	58.08	23.24	
	0.494	33.34	0.31	33.65	56.10	22.45	
	1.602	31.15	0.42	31.57	56.00	24.43	
	3.107	28.22	0.47	28.69	56.00	27.31	
	7.977	27.17	0.69	27.86	60.00	32.14	
	0.166	38.42	0.22	38.64	55.16	16.52	AV
	0.389	23.76	0.29	24.05	48.08	24.03	
	0.494	22.86	0.31	23.17	46.10	22.93	
	1.602	20.72	0.42	21.14	46.00	24.86	
	3.107	17.66	0.47	18.13	46.00	27.87	
	7.977	16.88	0.69	17.57	50.00	32.43	
Neutral	0.162	49.53	0.19	49.72	65.34	15.62	QP
	0.385	35.29	0.23	35.52	58.17	22.65	
	0.510	32.90	0.24	33.14	56.00	22.86	
	1.197	33.50	0.45	33.95	56.00	22.05	
	4.224	30.71	0.74	31.45	56.00	24.55	
	8.062	27.25	1.00	28.25	60.00	31.75	
	0.162	38.76	0.19	38.95	55.34	16.39	AV
	0.385	24.37	0.23	24.60	48.17	23.57	
	0.510	22.41	0.24	22.65	46.00	23.35	
	1.197	22.68	0.45	23.13	46.00	22.87	
	4.224	20.41	0.74	21.15	46.00	24.85	
	8.062	16.56	1.00	17.56	50.00	32.44	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 640*480@60Hz Adapter #7 : PSAB-L202C

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.172	54.44	0.23	54.67	64.86	10.19	QP
	0.406	42.01	0.29	42.30	57.73	15.43	
	0.505	40.97	0.31	41.28	56.00	14.72	
	1.839	40.67	0.44	41.11	56.00	14.89	
	4.874	43.13	0.55	43.68	56.00	12.32	
	19.740	32.54	0.97	33.51	60.00	26.49	
	0.172	42.15	0.23	42.38	54.86	12.48	AV
	0.406	31.30	0.29	31.59	47.73	16.14	
	0.505	30.20	0.31	30.51	46.00	15.49	
	1.839	30.41	0.44	30.85	46.00	15.15	
	4.874	31.28	0.55	31.83	46.00	14.17	
	19.740	22.36	0.97	23.33	50.00	26.67	
Neutral	0.172	54.55	0.19	54.74	64.86	10.12	QP
	0.240	41.51	0.18	41.69	62.08	20.39	
	0.521	41.25	0.24	41.49	56.00	14.51	
	1.662	39.60	0.53	40.13	56.00	15.87	
	4.874	37.87	0.76	38.63	56.00	17.37	
	15.388	34.81	1.16	35.97	60.00	24.03	
	0.172	42.54	0.19	42.73	54.86	12.13	AV
	0.240	30.52	0.18	30.70	52.08	21.38	
	0.521	30.58	0.24	30.82	46.00	15.18	
	1.662	29.10	0.53	29.63	46.00	16.37	
	4.874	27.43	0.76	28.19	46.00	17.81	
	15.388	24.16	1.16	25.32	50.00	24.68	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 640*480@60Hz Adapter #8 : LCAP26-A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.162	53.34	0.22	53.56	65.34	11.78	QP
	0.262	39.77	0.23	40.00	61.38	21.38	
	0.449	33.75	0.31	34.06	56.89	22.83	
	1.991	26.10	0.44	26.54	56.00	29.46	
	4.202	36.54	0.54	37.08	56.00	18.92	
	23.636	31.12	1.17	32.29	60.00	27.71	
	0.162	41.62	0.22	41.84	55.34	13.50	AV
	0.262	28.85	0.23	29.08	51.38	22.30	
	0.449	23.43	0.31	23.74	46.89	23.15	
	1.991	15.46	0.44	15.90	46.00	30.10	
	4.202	26.10	0.54	26.64	46.00	19.36	
	23.636	20.55	1.17	21.72	50.00	28.28	
Neutral	0.162	53.18	0.19	53.37	65.34	11.97	QP
	0.270	40.58	0.19	40.77	61.12	20.35	
	0.449	34.09	0.24	34.33	56.89	22.56	
	1.762	26.62	0.54	27.16	56.00	28.84	
	4.202	38.59	0.74	39.33	56.00	16.67	
	25.321	29.76	1.34	31.10	60.00	28.90	
	0.162	41.54	0.19	41.73	55.34	13.61	AV
	0.270	30.10	0.19	30.29	51.12	20.83	
	0.449	23.16	0.24	23.40	46.89	23.49	
	1.762	16.38	0.54	16.92	46.00	29.08	
	4.202	27.84	0.74	28.58	46.00	17.42	
	25.321	19.14	1.34	20.48	50.00	29.52	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 640*480@60Hz Adapter #9 : ADS-40SG-19-3
19025G

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.180	57.11	0.23	57.34	64.50	7.16	QP
	0.242	46.37	0.23	46.60	62.04	15.44	
	0.352	41.92	0.28	42.20	58.91	16.71	
	0.471	36.69	0.31	37.00	56.49	19.49	
	4.315	35.70	0.54	36.24	56.00	19.76	
	17.755	32.46	0.94	33.40	60.00	26.60	
	0.180	47.00	0.23	47.23	54.50	7.27	AV
	0.242	35.82	0.23	36.05	52.04	15.99	
	0.352	31.08	0.28	31.36	48.91	17.55	
	0.471	26.34	0.31	26.65	46.49	19.84	
	4.315	25.16	0.54	25.70	46.00	20.30	
	17.755	22.17	0.94	23.11	50.00	26.89	
Neutral	0.178	57.03	0.19	57.22	64.59	7.37	QP
	0.237	47.00	0.18	47.18	62.22	15.04	
	0.317	42.64	0.20	42.84	59.80	16.96	
	0.471	36.73	0.24	36.97	56.49	19.52	
	4.202	37.07	0.74	37.81	56.00	18.19	
	17.849	32.61	1.17	33.78	60.00	26.22	
	0.178	45.50	0.19	45.69	54.59	8.90	AV
	0.237	36.21	0.18	36.39	52.22	15.83	
	0.317	32.12	0.20	32.32	49.80	17.48	
	0.471	26.37	0.24	26.61	46.49	19.88	
	4.202	26.34	0.74	27.08	46.00	18.92	
	17.849	22.16	1.17	23.33	50.00	26.67	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 48%RH

Serial No. : N/A Date of Test : Apr 01, 2013

Test Mode : DVI 640*480@60Hz Adapter #10 : PSAB-L203A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.154	53.50	0.22	53.72	65.78	12.06	QP
	0.273	36.12	0.23	36.35	61.03	24.68	
	0.440	32.53	0.31	32.84	57.07	24.23	
	1.021	28.02	0.37	28.39	56.00	27.61	
	2.133	26.46	0.44	26.90	56.00	29.10	
	5.476	28.64	0.57	29.21	60.00	30.79	
	0.154	41.30	0.22	41.52	55.78	14.26	AV
	0.273	25.13	0.23	25.36	51.03	25.67	
	0.440	21.38	0.31	21.69	47.07	25.38	
	1.021	17.53	0.37	17.90	46.00	28.10	
	2.133	16.10	0.44	16.54	46.00	29.46	
	5.476	18.40	0.57	18.97	50.00	31.03	
Neutral	0.154	54.06	0.19	54.25	65.78	11.53	QP
	0.273	35.86	0.19	36.05	61.03	24.98	
	0.440	32.24	0.24	32.48	57.07	24.59	
	1.236	28.32	0.46	28.78	56.00	27.22	
	2.678	25.81	0.58	26.39	56.00	29.61	
	8.501	27.84	1.02	28.86	60.00	31.14	
	0.154	41.82	0.19	42.01	55.78	13.77	AV
	0.273	25.10	0.19	25.29	51.03	25.74	
	0.440	21.54	0.24	21.78	47.07	25.29	
	1.236	17.83	0.46	18.29	46.00	27.71	
	2.678	15.42	0.58	16.00	46.00	30.00	
	8.501	17.40	1.02	18.42	50.00	31.58	

TEST ENGINEER: JOE YE

4 RADIATED EMISSION TEST

4.1 Test Equipment

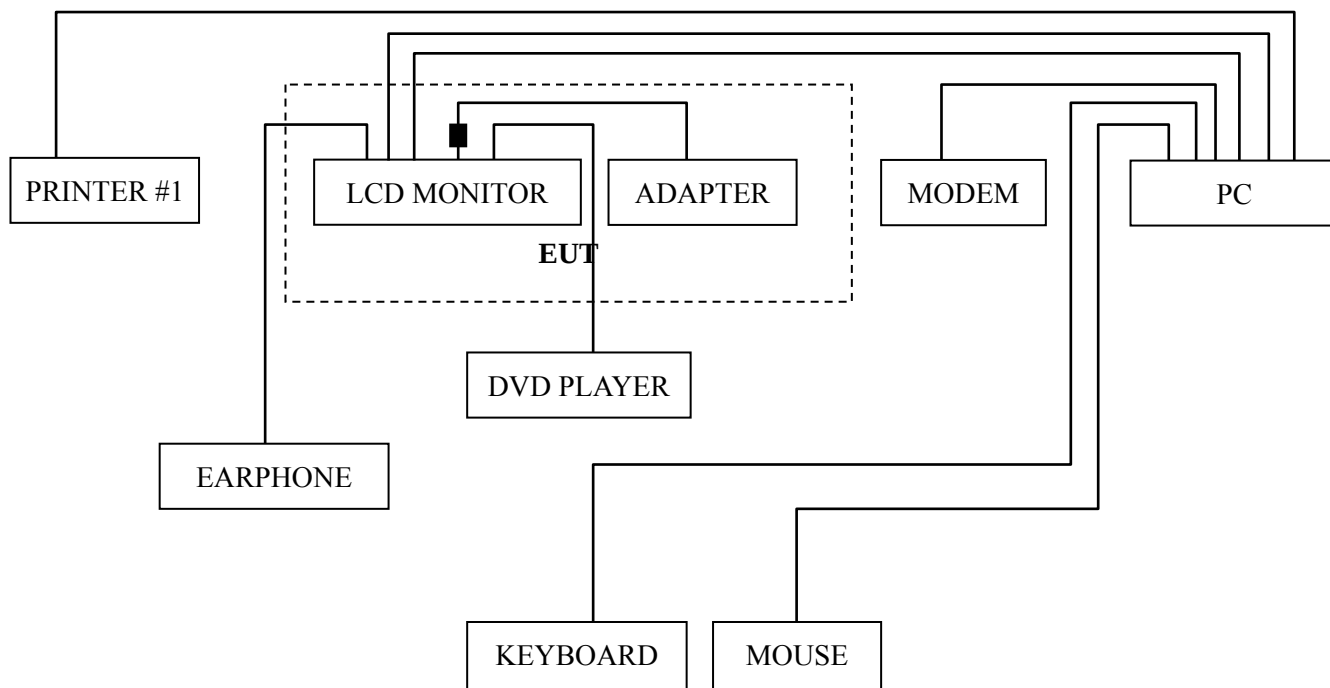
The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101302	Sep 11, 2012	Sep 11, 2013
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 18, 2013	Sep 18, 2013
3.	Preamplifier	HP	8449B	3008A00864	Mar 20, 2013	Mar 20, 2014
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 03, 2012	May 03, 2013
5.	Horn Antenna	EMCO	3115	9607-4878	May 03, 2012	May 03, 2013
6.	Spectrum	Agilent	E7405A	MY45106600	Dec 17, 2013	Dec 17, 2014
7.	50Ω Coaxial Switch	Anritsu	MP59B	6200426390	Mar 18, 2013	Sep 18, 2013
8.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals

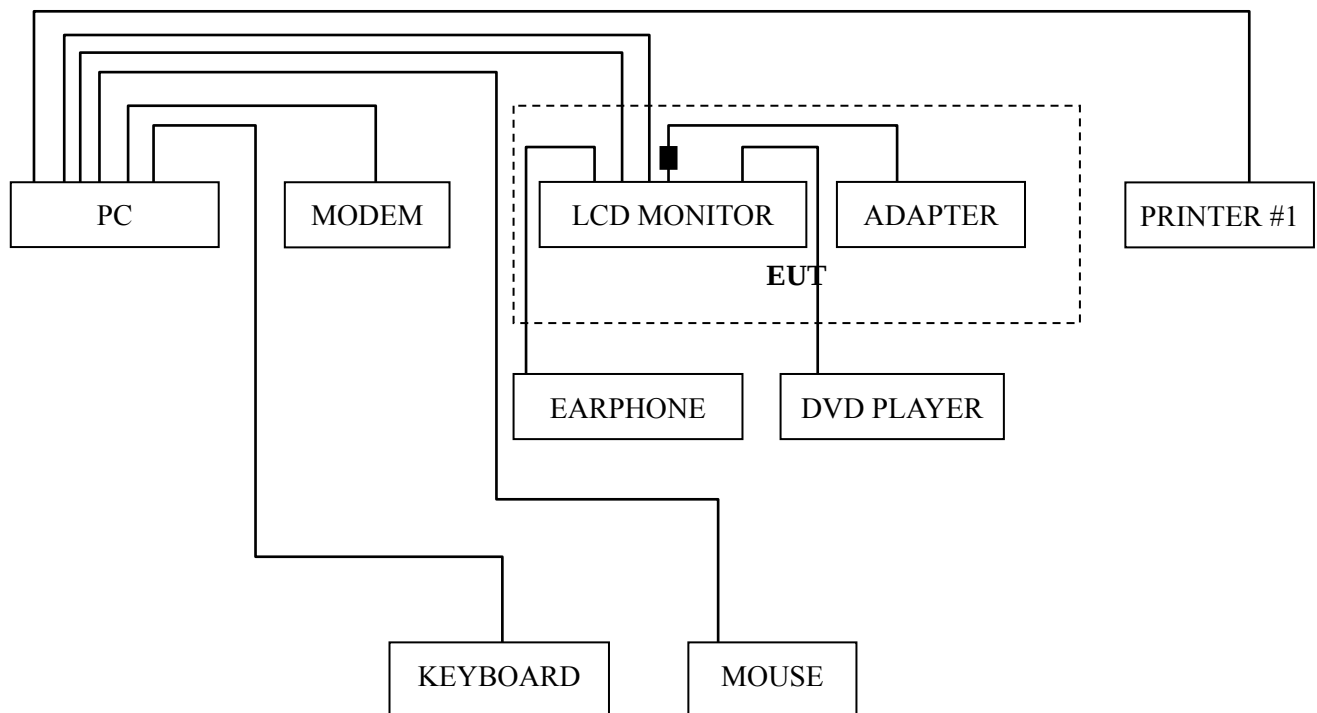
4.2.1.1 Below 1GHz



■ : Ferrite core

Note: Ferrite core only for Adapter #1, #5, #7, #10

4.2.1.2 Above 1GHz

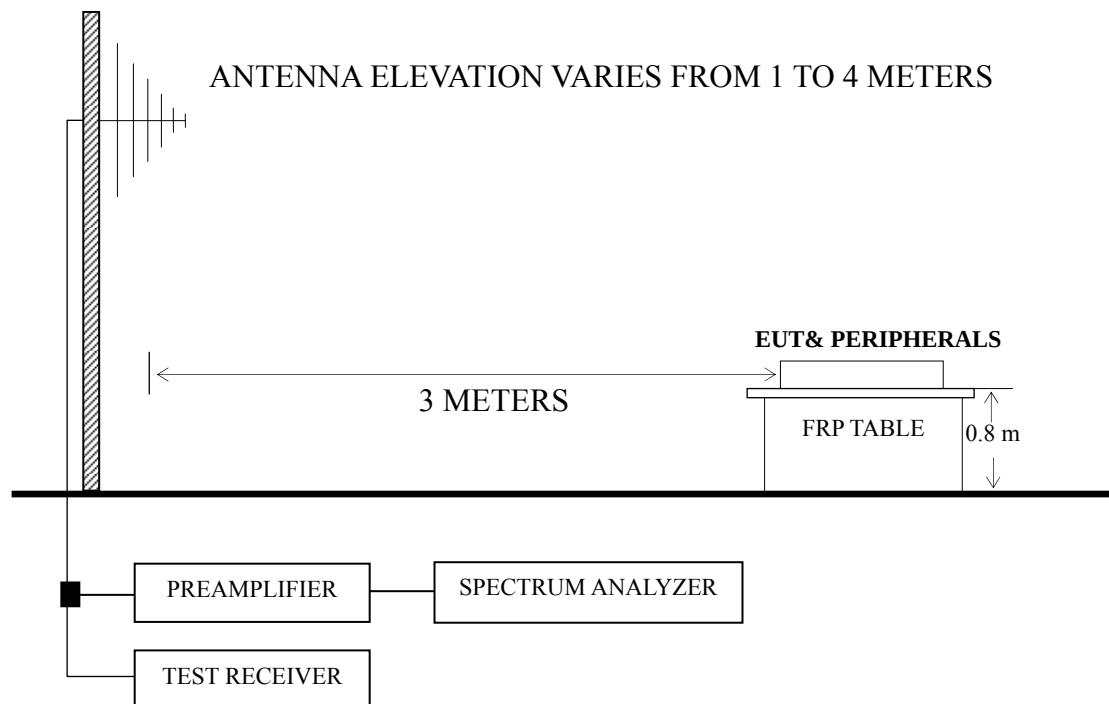


■ : Ferrite core

Note: Ferrite core only for Adapter #1, #5, #7, #10

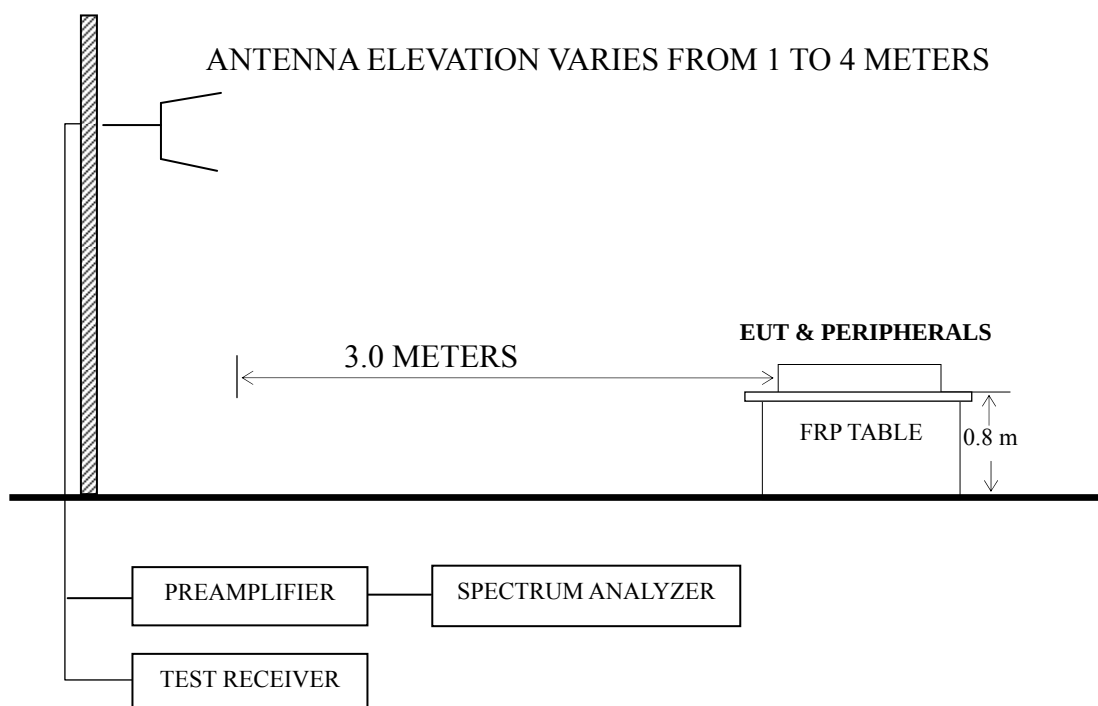
4.2.2 Radiated emission test setup

4.2.2.1 Below 1GHz



■ : 50 ohm Coaxial Switch

4.2.2.2 Above 1GHz



4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)]

Frequency (MHz)	Distance (m)	Field strength limits	
		($\mu\text{V/m}$)	dB ($\mu\text{V/m}$)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

NOTE 1 - Emission Level dB ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$)

NOTE 2 - The tighter limit applies at the band edges.

NOTE 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.

NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.

NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT.

4.4 Test Configuration

The configuration of the EUT and peripherals are same as those used in conducted emission test.

Please refer to Sec.3.4.

4.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.3.5, except for the test setup replaced by Sec.4.2.

4.6 Test Procedures

The EUT and peripherals were placed on a FRP turntable that is 0.8 meter above ground. The FRP turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated Bilog Antenna) or Horn Antenna was used as receiving antenna. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The I.F. bandwidth of Test Receiver R&S ESCI was set at 120 kHz below 1GHz and The Spectrum Agilent E7405A was set at 1MHz above 1GHz.

The frequency range from 30 MHz to 1000MHz was checked for all test modes.

The frequency range from 1 GHz to 2 GHz was checked for worst test mode in 30 - 1000 MHz test.

The test modes were done on radiated disturbance test and all the test results are listed in Sec.4.7.

4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Adapter	Test Mode	Page
Adapter #1	D-Sub 1920*1080@60Hz	P34
	DVI 1920*1080@60Hz	P35
	HDMI 1920*1080@60Hz	P36
	HDMI 1080P	P37
	DVI 1280*1024@75Hz	P38 – P39
	DVI 640*480@60Hz	P40
Adapter #2	DVI 1280*1024@75Hz	P41
Adapter #3	DVI 1280*1024@75Hz	P42
Adapter #4	DVI 1280*1024@75Hz	P43
Adapter #5	DVI 1280*1024@75Hz	P44
Adapter #6	DVI 1280*1024@75Hz	P45
Adapter #7	DVI 1280*1024@75Hz	P46
Adapter #8	DVI 1280*1024@75Hz	P47
Adapter #9	DVI 1280*1024@75Hz	P48
Adapter #10	DVI 1280*1024@75Hz	P49

NOTE 1 – **The bold test mode** listed above means the worst test mode.

NOTE 2 – Emission Level = Antenna Factor + Cable Loss + Meter Reading.($< 1\text{GHz}$)

NOTE 3 – Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading.($> 1\text{GHz}$)

NOTE 4 – All readings are Quasi-Peak values below or equal to 1GHz, Peak and average values above 1GHz

NOTE 5 – The emission levels that are 20dB below the official limit are not reported.

NOTE 6 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 7 – We tested the EUT with adapter #1 and selected the worst test mode to perform test with adapter #2/#3/#4/#5/#6/#7/#8/#9/#10.

NOTE 8 – The worst case is for DVI 1280*1024@75Hz test mode (Adapter #1). The worst emission at horizontal polarization was detected at 742.950 MHz with corrected signal level of 34.48 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was 1.00 m height and the turntable was at 125° . The worst emission at vertical polarization was detected at 38.730 MHz with corrected signal level of 34.92 dB ($\mu\text{V/m}$) (limit is 40.00 dB ($\mu\text{V/m}$)), when the antenna was 1.00 m height and the turntable was at 205° .

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : LCAP21A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	191.020	21.59	7.95	1.91	31.45	43.50	12.05
	281.230	15.45	12.43	2.40	30.28	46.00	15.72
	351.070	15.33	14.83	2.63	32.79	46.00	13.21
	420.910	17.04	17.27	2.74	37.05	46.00	8.95
	498.510	11.30	17.98	2.98	32.26	46.00	13.74
	568.350	9.34	19.30	3.14	31.78	46.00	14.22
Vertical	40.670	20.68	12.15	0.78	33.61	40.00	6.39
	67.830	23.50	5.31	0.91	29.72	40.00	10.28
	139.610	21.10	10.37	1.59	33.06	43.50	10.44
	349.130	18.28	14.80	2.62	35.70	46.00	10.30
	411.210	15.94	16.30	2.73	34.97	46.00	11.03
	478.140	14.20	17.90	2.92	35.02	46.00	10.98

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1920*1080@60Hz Adapter #1 : LCAP21A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	142.520	19.45	10.30	1.60	31.35	43.50	12.15
	174.530	19.68	8.31	1.80	29.79	43.50	13.71
	357.860	15.46	14.95	2.63	33.04	46.00	12.96
	428.670	11.29	17.53	2.76	31.58	46.00	14.42
	498.510	10.04	17.98	2.98	31.00	46.00	15.00
	566.410	10.54	19.30	3.14	32.98	46.00	13.02
Vertical	40.670	20.90	12.15	0.78	33.83	40.00	6.17
	116.330	18.58	11.54	1.46	31.58	43.50	11.92
	147.370	21.67	10.20	1.63	33.50	43.50	10.00
	367.560	16.93	14.83	2.65	34.41	46.00	11.59
	428.670	13.31	17.53	2.76	33.60	46.00	12.40
	501.420	13.80	18.17	2.98	34.95	46.00	11.05

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : HDMI 1920*1080@60Hz Adapter #1 : LCAP21A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	139.610	15.53	10.37	1.59	27.49	43.50	16.01
	190.050	22.93	7.90	1.89	32.72	43.50	10.78
	279.290	14.75	12.52	2.40	29.67	46.00	16.33
	340.400	15.97	14.80	2.61	33.38	46.00	12.62
	418.000	12.06	16.98	2.74	31.78	46.00	14.22
	568.350	10.18	19.30	3.14	32.62	46.00	13.38
Vertical	39.700	21.27	12.54	0.77	34.58	40.00	5.42
	114.390	18.11	11.62	1.43	31.16	43.50	12.34
	173.560	20.03	8.32	1.80	30.15	43.50	13.35
	348.160	15.43	14.80	2.62	32.85	46.00	13.15
	418.000	13.47	16.98	2.74	33.19	46.00	12.81
	476.200	15.05	17.80	2.92	35.77	46.00	10.23

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : HDMI 1080P Adapter #1 : LCAP21A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	136.700	18.92	10.74	1.58	31.24	43.50	12.26
	191.020	22.22	7.95	1.91	32.08	43.50	11.42
	273.470	15.67	12.60	2.35	30.62	46.00	15.38
	341.370	17.99	14.80	2.61	35.40	46.00	10.60
	410.240	15.67	16.30	2.71	34.68	46.00	11.32
	540.220	9.53	19.50	3.06	32.09	46.00	13.91
Vertical	39.700	20.93	12.54	0.77	34.24	40.00	5.76
	115.360	18.64	11.58	1.45	31.67	43.50	11.83
	144.460	20.68	10.30	1.61	32.59	43.50	10.91
	349.130	16.14	14.80	2.62	33.56	46.00	12.44
	418.970	13.95	17.20	2.74	33.89	46.00	12.11
	478.140	13.23	17.90	2.92	34.05	46.00	11.95

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #1 : LCAP21A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	138.640	16.69	10.51	1.59	--	28.79	43.50	14.71	QP
	191.020	21.45	7.95	1.91	--	31.31	43.50	12.19	
	342.340	14.54	14.80	2.61	--	31.95	46.00	14.05	
	446.130	13.47	17.07	2.82	--	33.36	46.00	12.64	
	566.410	8.58	19.30	3.14	--	31.02	46.00	14.98	
	742.950	12.04	18.87	3.57	--	34.48	46.00	11.52	
	1070.000	56.19	21.35	4.96	38.05	44.45	74.00	29.55	PK
	1180.000	50.60	22.60	5.08	37.81	40.47	74.00	33.53	
	1250.000	51.72	23.45	5.25	37.65	42.77	74.00	31.23	
	1365.000	52.98	24.05	5.51	37.33	45.21	74.00	28.79	
	1465.000	50.37	24.97	5.62	37.06	43.90	74.00	30.10	
	1595.000	48.10	25.60	5.66	36.77	42.59	74.00	31.41	
	1070.000	43.88	21.35	4.96	38.05	32.14	54.00	21.86	AV
	1180.000	35.36	22.60	5.08	37.81	25.23	54.00	28.77	
	1250.000	35.45	23.45	5.25	37.65	26.50	54.00	27.50	
	1365.000	37.43	24.05	5.51	37.33	29.66	54.00	24.34	
	1465.000	35.21	24.97	5.62	37.06	28.74	54.00	25.26	
	1595.000	32.72	25.60	5.66	36.77	27.21	54.00	26.79	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #1 : LCAP21A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Vertical	38.730	20.86	13.30	0.76	--	34.92	40.00	5.08	QP
	114.390	19.18	11.62	1.43	--	32.23	43.50	11.27	
	149.310	20.58	10.12	1.64	--	32.34	43.50	11.16	
	341.370	15.90	14.80	2.61	--	33.31	46.00	12.69	
	446.130	16.35	17.07	2.82	--	36.24	46.00	9.76	
	478.140	13.96	17.90	2.92	--	34.78	46.00	11.22	
	1080.000	50.33	21.40	4.98	38.03	38.68	74.00	35.32	PK
	1170.000	51.94	22.75	5.08	37.83	41.94	74.00	32.06	
	1315.000	55.09	23.73	5.43	37.48	46.77	74.00	27.23	
	1465.000	45.94	24.97	5.62	37.06	39.47	74.00	34.53	
	1600.000	47.62	25.90	5.66	36.76	42.42	74.00	31.58	
	1760.000	46.51	26.00	6.11	36.49	42.13	74.00	31.87	
	1080.000	36.01	21.40	4.98	38.03	24.36	54.00	29.64	AV
	1170.000	36.30	22.75	5.08	37.83	26.30	54.00	27.70	
	1315.000	40.84	23.73	5.43	37.48	32.52	54.00	21.48	
	1465.000	29.43	24.97	5.62	37.06	22.96	54.00	31.04	
	1600.000	33.89	25.90	5.66	36.76	28.69	54.00	25.31	
	1760.000	31.67	26.00	6.11	36.49	27.29	54.00	26.71	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 640*480@60Hz Adapter #1 : LCAP21A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	191.020	21.55	7.95	1.91	31.41	43.50	12.09
	277.350	14.03	12.55	2.38	28.96	46.00	17.04
	342.340	16.22	14.80	2.61	33.63	46.00	12.37
	419.940	16.85	17.20	2.74	36.79	46.00	9.21
	501.420	10.09	18.17	2.98	31.24	46.00	14.76
	566.410	10.08	19.30	3.14	32.52	46.00	13.48
Vertical	39.700	20.62	12.54	0.77	33.93	40.00	6.07
	139.610	20.07	10.37	1.59	32.03	43.50	11.47
	342.340	15.63	14.80	2.61	33.04	46.00	12.96
	410.240	14.82	16.30	2.71	33.83	46.00	12.17
	478.140	13.78	17.90	2.92	34.60	46.00	11.40
	540.220	10.33	19.50	3.06	32.89	46.00	13.11

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #2 : ADS-40SG-19-3
19032G

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	144.460	17.99	10.30	1.61	29.90	43.50	13.60
	191.020	23.92	7.95	1.91	33.78	43.50	9.72
	274.440	16.62	12.60	2.38	31.60	46.00	14.40
	341.370	14.49	14.80	2.61	31.90	46.00	14.10
	419.940	9.84	17.20	2.74	29.78	46.00	16.22
	568.350	7.77	19.30	3.14	30.21	46.00	15.79
Vertical	35.820	15.94	15.63	0.73	32.30	40.00	7.70
	49.400	22.83	7.93	0.85	31.61	40.00	8.39
	136.700	19.20	10.74	1.58	31.52	43.50	11.98
	349.130	16.15	14.80	2.62	33.57	46.00	12.43
	409.270	14.63	16.28	2.71	33.62	46.00	12.38
	479.110	13.68	18.00	2.92	34.60	46.00	11.40

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #3 : ADS-40FSG-19
19032GPCU-1

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	144.460	19.69	10.30	1.61	31.60	43.50	11.90
	191.020	19.04	7.95	1.91	28.90	43.50	14.60
	341.370	14.88	14.80	2.61	32.29	46.00	13.71
	419.940	8.90	17.20	2.74	28.84	46.00	17.16
	501.420	8.47	18.17	2.98	29.62	46.00	16.38
	568.350	8.36	19.30	3.14	30.80	46.00	15.20
Vertical	35.820	16.07	15.63	0.73	32.43	40.00	7.57
	49.400	22.74	7.93	0.85	31.52	40.00	8.48
	144.460	23.14	10.30	1.61	35.05	43.50	8.45
	341.370	16.00	14.80	2.61	33.41	46.00	12.59
	411.210	14.90	16.30	2.73	33.93	46.00	12.07
	478.140	15.00	17.90	2.92	35.82	46.00	10.18

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #4 : LCAP26A-A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	144.460	19.15	10.30	1.61	31.06	43.50	12.44
	186.170	21.80	8.17	1.87	31.84	43.50	11.66
	273.470	15.61	12.60	2.35	30.56	46.00	15.44
	342.340	15.11	14.80	2.61	32.52	46.00	13.48
	419.940	11.68	17.20	2.74	31.62	46.00	14.38
	568.350	9.41	19.30	3.14	31.85	46.00	14.15
Vertical	53.280	22.73	6.46	0.86	30.05	40.00	9.95
	144.460	22.50	10.30	1.61	34.41	43.50	9.09
	170.650	21.34	8.38	1.78	31.50	43.50	12.00
	342.340	14.12	14.80	2.61	31.53	46.00	14.47
	410.240	14.99	16.30	2.71	34.00	46.00	12.00
	478.140	14.17	17.90	2.92	34.99	46.00	11.01

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #5 : LCAP21

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	80.440	17.49	10.56	0.78	28.83	40.00	11.17
	94.990	12.79	11.18	0.90	24.87	43.50	18.63
	133.790	19.38	10.74	1.00	31.12	43.50	12.38
	187.140	21.66	9.92	1.09	32.67	43.50	10.83
	318.090	18.51	14.19	1.31	34.01	46.00	11.99
	436.430	15.76	16.79	1.55	34.10	46.00	11.90
Vertical	41.640	17.44	11.78	0.47	29.69	40.00	10.31
	80.440	22.96	10.56	0.78	34.30	40.00	5.70
	94.990	21.11	11.18	0.90	33.19	43.50	10.31
	198.780	23.02	9.81	1.11	33.94	43.50	9.56
	318.090	19.52	14.19	1.31	35.02	46.00	10.98
	352.040	20.10	15.17	1.37	36.64	46.00	9.36

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #6 : ADS-40FSG-19
19025GPCU-1

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	41.640	17.93	11.78	0.47	30.18	40.00	9.82
	53.280	21.28	8.70	0.55	30.53	40.00	9.47
	80.440	23.38	10.56	0.78	34.72	40.00	5.28
	94.990	22.06	11.18	0.90	34.14	43.50	9.36
	198.780	23.09	9.81	1.11	34.01	43.50	9.49
	352.040	20.40	15.17	1.37	36.94	46.00	9.06
Vertical	80.440	17.49	10.56	0.78	28.83	40.00	11.17
	94.990	14.15	11.18	0.90	26.23	43.50	17.27
	133.790	18.97	10.74	1.00	30.71	43.50	12.79
	187.140	21.18	9.92	1.09	32.19	43.50	11.31
	279.290	18.59	13.09	1.23	32.91	46.00	13.09
	318.090	18.37	14.19	1.31	33.87	46.00	12.13

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #7 : PSAB-L202C

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	80.440	18.08	10.56	0.78	29.42	40.00	10.58
	133.790	19.65	10.74	1.00	31.39	43.50	12.11
	198.780	25.43	9.81	1.11	36.35	43.50	7.15
	223.030	16.99	10.76	1.14	28.89	46.00	17.11
	318.090	18.41	14.19	1.31	33.91	46.00	12.09
	436.430	17.85	16.79	1.55	36.19	46.00	9.81
Vertical	41.640	16.39	11.78	0.47	28.64	40.00	11.36
	80.440	22.24	10.56	0.78	33.58	40.00	6.42
	94.990	19.34	11.18	0.90	31.42	43.50	12.08
	140.580	16.26	10.60	1.01	27.87	43.50	15.63
	198.780	19.57	9.81	1.11	30.49	43.50	13.01
	352.040	18.34	15.17	1.37	34.88	46.00	11.12

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #8 : LCAP26-A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	41.640	21.31	11.78	0.47	33.56	40.00	6.44
	53.280	21.36	8.70	0.55	30.61	40.00	9.39
	80.440	23.56	10.56	0.78	34.90	40.00	5.10
	94.990	20.82	11.18	0.90	32.90	43.50	10.60
	140.580	20.95	10.60	1.01	32.56	43.50	10.94
	198.780	23.48	9.81	1.11	34.40	43.50	9.10
Vertical	80.440	19.98	10.56	0.78	31.32	40.00	8.68
	145.430	19.76	10.50	1.02	31.28	43.50	12.22
	198.780	26.43	9.81	1.11	37.35	43.50	6.15
	250.190	21.22	11.99	1.18	34.39	46.00	11.61
	318.090	19.39	14.19	1.31	34.89	46.00	11.11
	516.940	13.74	17.70	1.81	33.25	46.00	12.75

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #9 : ADS-40SG-19-3
19025G

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	80.440	19.52	10.56	0.78	30.86	40.00	9.14
	145.430	20.19	10.50	1.02	31.71	43.50	11.79
	235.640	17.50	11.32	1.16	29.98	46.00	16.02
	318.090	19.03	14.19	1.31	34.53	46.00	11.47
	528.580	6.18	17.77	1.85	25.80	46.00	20.20
	640.130	9.01	18.74	2.24	29.99	46.00	16.01
Vertical	53.280	23.34	8.70	0.55	32.59	40.00	7.41
	67.830	18.10	9.70	0.67	28.47	40.00	11.53
	140.580	21.12	10.60	1.01	32.73	43.50	10.77
	198.780	23.84	9.81	1.11	34.76	43.50	8.74
	252.130	20.17	12.09	1.18	33.44	46.00	12.56
	352.040	21.25	15.17	1.37	37.79	46.00	8.21

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : IPS234VA Humidity : 60%RH

Serial No. : N/A Date of Test : Apr 03, 2013

Test Mode : DVI 1280*1024@75Hz Adapter #10 : PSAB-L203A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	53.280	22.23	8.70	0.55	31.48	40.00	8.52
	67.830	17.94	9.70	0.67	28.31	40.00	11.69
	106.630	14.09	11.24	0.95	26.28	43.50	17.22
	198.780	23.15	9.81	1.11	34.07	43.50	9.43
	256.980	20.65	12.27	1.19	34.11	46.00	11.89
	528.580	11.45	17.77	1.85	31.07	46.00	14.93
Vertical	80.440	19.13	10.56	0.78	30.47	40.00	9.53
	94.990	12.72	11.18	0.90	24.80	43.50	18.70
	145.430	19.10	10.50	1.02	30.62	43.50	12.88
	247.280	17.98	11.85	1.17	31.00	46.00	15.00
	305.480	13.33	13.87	1.29	28.49	46.00	17.51
	516.940	12.24	17.70	1.81	31.75	46.00	14.25

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.