

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

LCD Monitor

Model No.: E2242TA

Serial No.: E1204493-01/01

FCC ID : BEJE2242TA

Prepared For : LG Electronics U.S.A., Inc.
1000 Sylvan Avenue, Englewood Cliffs,
NJ 07632, United States

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Report No. : ACI-F12002A3
Date of Test : May 03, 2012
Date of Report : May 07, 2012

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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. : E2242TA
(B) Serial No. : E1204493-01/01
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2011
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: E2242TA; S/N: E1204493-01/01) which was tested in 3m anechoic chamber May 03, 2012 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 : May 03, 2012 Date of Report : May 07, 2012

Producer : Yenny Yu.
YENNY YU / Assistant

Review : Dio Yang
DIO YANG / Assistant Manager

AUDIX[®] 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 2011 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2011 AND ANSI C63.4-2003	15.109(a) Class B	Pass

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : LCD Monitor

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Model No. : E2242TA

Serial No. : E1204493-01/01

Real Power : 22.20W (Adapter #1)
23.40W (Adapter #2)
22.30W (Adapter #3)
23.40W (Adapter #4)

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

Report No.	Model No.	Rev. Summary	Edition No.	Data of Rev.
ACI-F12002	E2242TA	Original Report	0	Jan 06, 2012
ACI-F12002A1	E2242TA	1.To add two new panels 2.To add a new appearance	Rev. A1	Mar 10, 2012
ACI- F12002A2	E2242TA	To add two new panels	Rev. A2	Mar 26, 2012
ACI- F12002A3	E2242TA	To add a new panel	Rev. A3	May 07, 2012

AC Adapter #1 : 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 #2 : 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 #3 : 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 #4	: Manufacturer	: HONOR
	Model Number	: ADS-40FSG-19 19025G***-1 (*** can be PG, PBR, PI, PCU, ADS-40FSG-19 19025GPCU-1 was selected as the test model.)
	Input	: 100-240V~, 50-60Hz 1.0A
	Output	: 19V  1.3A
	Output Cable	: Unshielded, Undetachable, 1.8m

Applicant : LG Electronics U.S.A., Inc.
1000 Sylvan Avenue, Englewood Cliffs,
NJ 07632, United States

Manufacturer : LG Electronics Nanjing Display Co., Ltd.
No.346, Yao Xin Road, Economic & Technical
Development Zone, Nanjing, China

LCD Panel :

	Original Panel	New Panel
1.	Manufacturer : LG Display; M/N : LM215WF4	Manufacturer : LG Electronics Inc. M/N : LGM215AP11
2.	Manufacturer : LG Electronics Inc. M/N : LGM215AB01	--
3.	Manufacturer : LG Electronics Inc. M/N : LGM215AC01	--
4.	Manufacturer : AU Optronics M/N : M215HW03	--
5.	Manufacturer : CHIMEI INNOLUX M/N : M215HGE	--

Max Resolution : 1920*1080@60Hz

D-Sub Cable #1 : Shielded, Detachable, 1.85m

D-Sub Cable #2 : Shielded, Detachable, 1.50m

DVI Cable #1 : Shielded, Detachable, 2.00m

DVI Cable #2 : Shielded, Detachable, 1.50m

Power Cord : Unshielded, Detachable, 1.80m

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 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

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 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

2.2.5 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

2.2.6 Modem

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

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on
(Semi-Anechoic Chamber) Apr 29, 2009 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 = 3.43 dB

Radiated Emission Expanded Uncertainty (30-200MHz):
U = 4.67 dB (Horizontal)
U = 4.72 dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):
U = 4.81 dB (Horizontal)
U = 4.69 dB (Vertical)

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

3 CONDUCTED EMISSION TEST

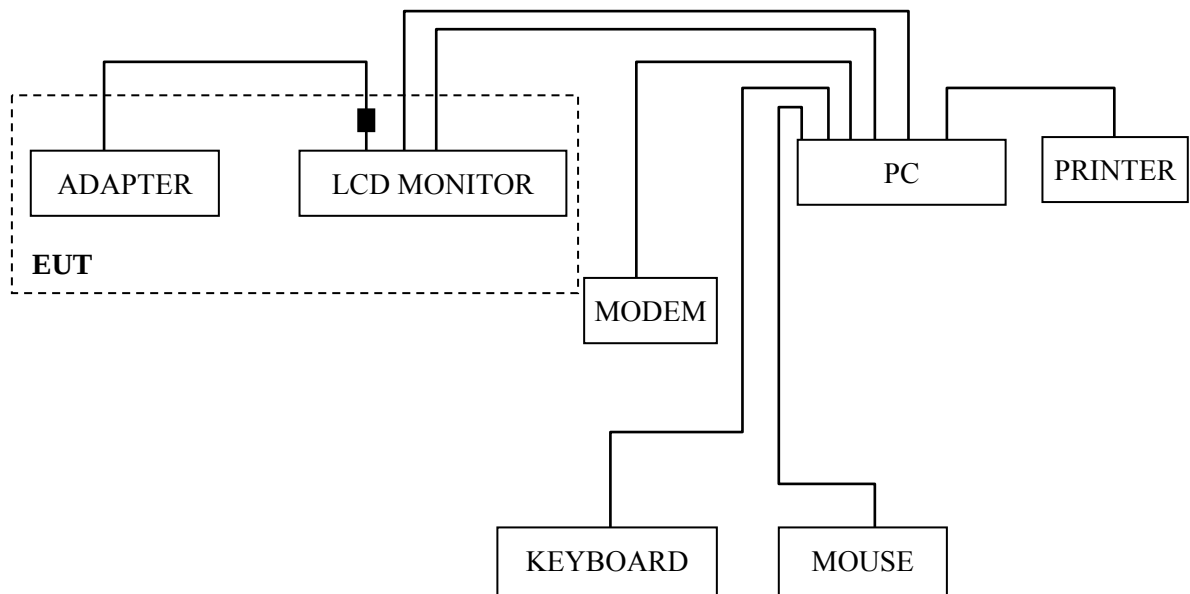
3.1 Test Equipment

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, 2012	Mar 22, 2013
2.	Artificial Mains Network (AMN #1)	R&S	ESH2-Z5	843890/011	Feb 13, 2012	Feb 13, 2013
3.	Artificial Mains Network (AMN #2)	R&S	ENV4200	100125	Mar 22, 2012	Mar 22, 2013
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Mar 18, 2012	Sep 18, 2012
5.	50 Ω Terminator	Anritsu	BNC	001	Mar 22, 2012	Mar 22, 2013
6.	Software	Audix	E3	SET00200 9804M592	--	--

3.2 Block Diagram of Test Setup

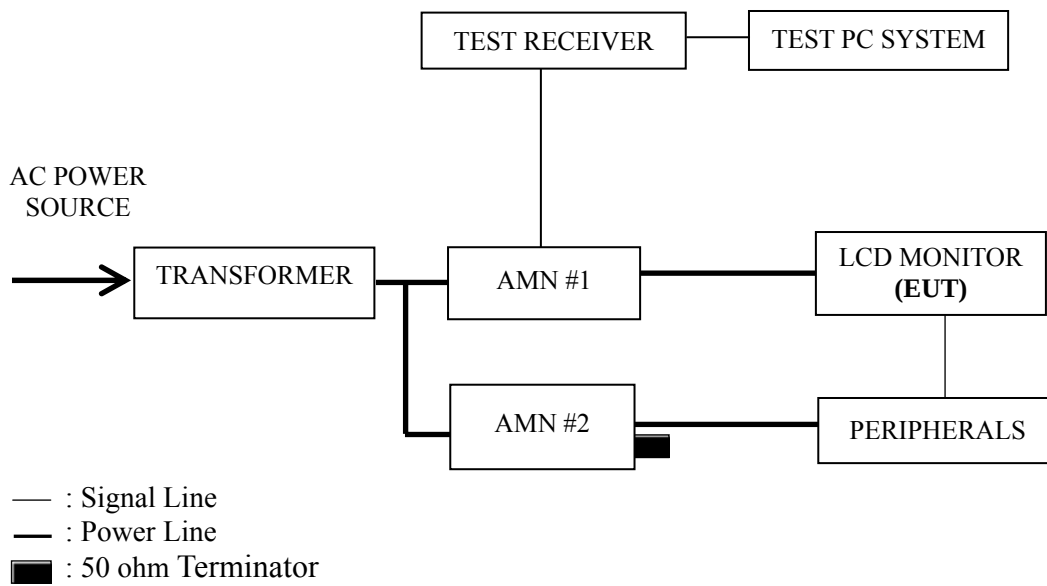
3.2.1 EUT & Peripherals



■ : Ferrite core

Note: Ferrite core only for Adapter #1

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 (μ V)	
	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 Repeat above procedure from 3.5.3 to 3.5.4 for difference test mode.

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

3.5.7 The test modes are as follows:

Adapter	Test Mode
Adapter #1	D-Sub 1920*1080@60Hz
	DVI 1920*1080@60Hz
	D-Sub 1680*1050@60Hz
	D-Sub 1280*1024@75Hz
	D-Sub 640*480@60Hz
Adapter #2	D-Sub 1920*1080@60Hz
Adapter #3	D-Sub 1920*1080@60Hz
Adapter #4	D-Sub 1920*1080@60Hz

NOTE: We tested the EUT with adapter #1, then selected the worst test mode to perform test with other adapters.

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.

Adaptor	Test Mode	Page
Adapter #1	D-Sub 1920*1080@60Hz	P13
	DVI 1920*1080@60Hz	P14
	D-Sub 1680*1050@60Hz	P15
	D-Sub 1280*1024@75Hz	P16
	D-Sub 640*480@60Hz	P17
Adapter #2	D-Sub 1920*1080@60Hz	P18
Adapter #3	D-Sub 1920*1080@60Hz	P19
Adapter #4	D-Sub 1920*1080@60Hz	P20

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 D-Sub 1920*1080@60Hz test mode (Adapter #1). The worst emission is detected at 0.172 MHz (Quasi-Peak Value) with corrected signal level of 62.43 dB (μV) (limit is 64.86 dB (μV)), when the Neutral of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : LCAP21

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.172	61.50	0.24	61.74	64.86	3.12	QP
	0.244	50.92	0.25	51.17	61.95	10.78	
	0.471	38.44	0.35	38.79	56.49	17.70	
	2.088	24.78	0.39	25.17	56.00	30.83	
	4.501	39.30	0.50	39.80	56.00	16.20	
	15.552	36.25	0.84	37.09	60.00	22.91	
	0.172	50.24	0.24	50.48	54.86	4.38	AV
	0.244	39.62	0.25	39.87	51.95	12.08	
	0.471	27.60	0.35	27.95	46.49	18.54	
	2.088	13.68	0.39	14.07	46.00	31.93	
	4.501	28.67	0.50	29.17	46.00	16.83	
	15.552	25.29	0.84	26.13	50.00	23.87	
Neutral	0.172	62.31	0.12	62.43	64.86	2.43	QP
	0.239	50.65	0.11	50.76	62.13	11.37	
	0.452	39.19	0.17	39.36	56.85	17.49	
	2.088	25.68	0.17	25.85	56.00	30.15	
	4.501	39.52	0.41	39.93	56.00	16.07	
	15.226	34.52	0.73	35.25	60.00	24.75	
	0.172	50.82	0.12	50.94	54.86	3.92	AV
	0.239	39.60	0.11	39.71	52.13	12.42	
	0.452	28.61	0.17	28.78	46.85	18.07	
	2.088	14.82	0.17	14.99	46.00	31.01	
	4.501	28.67	0.41	29.08	46.00	16.92	
	15.226	23.85	0.73	24.58	50.00	25.42	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #1 : LCAP21

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.170	60.96	0.24	61.20	64.94	3.74	QP
	0.223	50.25	0.24	50.49	62.70	12.21	
	0.461	37.13	0.35	37.48	56.67	19.19	
	2.155	23.74	0.39	24.13	56.00	31.87	
	4.672	38.60	0.50	39.10	56.00	16.90	
	15.226	33.86	0.84	34.70	60.00	25.30	
	0.170	49.27	0.24	49.51	54.94	5.43	AV
	0.223	39.28	0.24	39.52	52.70	13.18	
	0.461	26.41	0.35	26.76	46.67	19.91	
	2.155	13.52	0.39	13.91	46.00	32.09	
	4.672	27.69	0.50	28.19	46.00	17.81	
	15.226	23.52	0.84	24.36	50.00	25.64	
Neutral	0.172	61.94	0.12	62.06	64.86	2.80	QP
	0.228	50.81	0.11	50.92	62.52	11.60	
	0.466	38.95	0.17	39.12	56.58	17.46	
	1.928	24.39	0.17	24.56	56.00	31.44	
	4.672	39.90	0.42	40.32	56.00	15.68	
	15.388	35.16	0.73	35.89	60.00	24.11	
	0.172	49.68	0.12	49.80	54.86	5.06	AV
	0.228	39.62	0.11	39.73	52.52	12.79	
	0.466	27.68	0.17	27.85	46.58	18.73	
	1.928	14.26	0.17	14.43	46.00	31.57	
	4.672	28.71	0.42	29.13	46.00	16.87	
	15.388	24.19	0.73	24.92	50.00	25.08	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : D-Sub 1680*1050@60Hz Adapter #1 : LCAP21

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.174	58.26	0.24	58.50	64.77	6.27	QP
	0.228	47.58	0.24	47.82	62.52	14.70	
	0.461	36.33	0.35	36.68	56.67	19.99	
	1.535	19.17	0.37	19.54	56.00	36.46	
	4.672	36.48	0.50	36.98	56.00	19.02	
	16.486	33.69	0.86	34.55	60.00	25.45	
	0.174	47.69	0.24	47.93	54.77	6.84	AV
	0.228	36.72	0.24	36.96	52.52	15.56	
	0.461	25.84	0.35	26.19	46.67	20.48	
	1.535	10.50	0.37	10.87	46.00	35.13	
	4.672	25.84	0.50	26.34	46.00	19.66	
	16.486	23.10	0.86	23.96	50.00	26.04	
Neutral	0.172	58.56	0.12	58.68	64.86	6.18	QP
	0.230	47.46	0.11	47.57	62.44	14.87	
	0.461	37.80	0.17	37.97	56.67	18.70	
	1.352	21.26	0.21	21.47	56.00	34.53	
	4.202	37.98	0.40	38.38	56.00	17.62	
	14.672	33.96	0.73	34.69	60.00	25.31	
	0.172	47.69	0.12	47.81	54.86	7.05	AV
	0.230	36.82	0.11	36.93	52.44	15.51	
	0.461	26.94	0.17	27.11	46.67	19.56	
	1.352	12.20	0.21	12.41	46.00	33.59	
	4.202	27.40	0.40	27.80	46.00	18.20	
	14.672	23.70	0.73	24.43	50.00	25.57	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : D-Sub 1280*1024@75Hz Adapter #1 : LCAP21

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.172	58.35	0.24	58.59	64.86	6.27	QP
	0.228	46.92	0.24	47.16	62.52	15.36	
	0.461	36.68	0.35	37.03	56.67	19.64	
	1.324	19.41	0.34	19.75	56.00	36.25	
	4.622	37.66	0.50	38.16	56.00	17.84	
	14.364	33.95	0.84	34.79	60.00	25.21	
	0.172	47.35	0.24	47.59	54.86	7.27	AV
	0.228	35.81	0.24	36.05	52.52	16.47	
	0.461	25.86	0.35	26.21	46.67	20.46	
	1.324	10.27	0.34	10.61	46.00	35.39	
	4.622	26.82	0.50	27.32	46.00	18.68	
	14.364	23.46	0.84	24.30	50.00	25.70	
Neutral	0.174	58.30	0.12	58.42	64.77	6.35	QP
	0.226	47.26	0.11	47.37	62.61	15.24	
	0.461	38.26	0.17	38.43	56.67	18.24	
	1.338	21.93	0.21	22.14	56.00	33.86	
	4.672	37.10	0.42	37.52	56.00	18.48	
	14.213	34.02	0.72	34.74	60.00	25.26	
	0.174	47.66	0.12	47.78	54.77	6.99	AV
	0.226	36.82	0.11	36.93	52.61	15.68	
	0.461	27.72	0.17	27.89	46.67	18.78	
	1.338	12.52	0.21	12.73	46.00	33.27	
	4.672	25.91	0.42	26.33	46.00	19.67	
	14.213	23.52	0.72	24.24	50.00	25.76	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : D-Sub 640*480@60Hz Adapter #1 : LCAP21

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.161	59.36	0.24	59.60	65.43	5.83	QP
	0.233	47.21	0.25	47.46	62.35	14.89	
	0.456	36.63	0.35	36.98	56.76	19.78	
	2.088	20.18	0.39	20.57	56.00	35.43	
	4.672	36.66	0.50	37.16	56.00	18.84	
	16.486	33.34	0.86	34.20	60.00	25.80	
	0.161	47.20	0.24	47.44	55.43	7.99	AV
	0.233	36.52	0.25	36.77	52.35	15.58	
	0.456	25.80	0.35	26.15	46.76	20.61	
	2.088	11.52	0.39	11.91	46.00	34.09	
	4.672	25.80	0.50	26.30	46.00	19.70	
	16.486	23.50	0.86	24.36	50.00	25.64	
Neutral	0.174	58.85	0.12	58.97	64.77	5.80	QP
	0.242	48.11	0.11	48.22	62.04	13.82	
	0.461	37.99	0.17	38.16	56.67	18.51	
	2.155	22.66	0.17	22.83	56.00	33.17	
	4.454	39.29	0.41	39.70	56.00	16.30	
	15.226	34.34	0.73	35.07	60.00	24.93	
	0.174	47.29	0.12	47.41	54.77	7.36	AV
	0.242	37.50	0.11	37.61	52.04	14.43	
	0.461	27.10	0.17	27.27	46.67	19.40	
	2.155	12.87	0.17	13.04	46.00	32.96	
	4.454	28.68	0.41	29.09	46.00	16.91	
	15.226	24.62	0.73	25.35	50.00	24.65	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : D-Sub 1920*1080@60Hz Adapter #2 : LCAP26-A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.176	61.87	0.24	62.11	64.68	2.57	QP
	0.239	52.32	0.25	52.57	62.13	9.56	
	0.476	37.10	0.35	37.45	56.41	18.96	
	1.991	27.77	0.39	28.16	56.00	27.84	
	4.721	37.84	0.50	38.34	56.00	17.66	
	17.568	32.26	0.89	33.15	60.00	26.85	
	0.176	50.17	0.24	50.41	54.68	4.27	AV
	0.239	41.38	0.25	41.63	52.13	10.50	
	0.476	26.13	0.35	26.48	46.41	19.93	
	1.991	16.34	0.39	16.73	46.00	29.27	
	4.721	26.37	0.50	26.87	46.00	19.13	
	17.568	21.85	0.89	22.74	50.00	27.26	
Neutral	0.174	61.94	0.12	62.06	64.77	2.71	QP
	0.239	51.11	0.11	51.22	62.13	10.91	
	0.476	36.04	0.17	36.21	56.41	20.20	
	2.012	28.42	0.17	28.59	56.00	27.41	
	4.874	37.58	0.42	38.00	56.00	18.00	
	20.594	32.64	0.84	33.48	60.00	26.52	
	0.174	50.41	0.12	50.53	54.77	4.24	AV
	0.239	40.16	0.11	40.27	52.13	11.86	
	0.476	25.30	0.17	25.47	46.41	20.94	
	2.012	18.40	0.17	18.57	46.00	27.43	
	4.874	26.37	0.42	26.79	46.00	19.21	
	20.594	21.63	0.84	22.47	50.00	27.53	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : D-Sub 1920*1080@60Hz Adapter #3 : 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	0.162	50.64	0.24	50.88	65.34	14.46	QP
	0.220	39.32	0.24	39.56	62.83	23.27	
	0.535	39.56	0.33	39.89	56.00	16.11	
	1.352	35.40	0.34	35.74	56.00	20.26	
	5.362	37.03	0.52	37.55	60.00	22.45	
	14.517	36.97	0.84	37.81	60.00	22.19	
	0.162	39.28	0.24	39.52	55.34	15.82	AV
	0.220	28.72	0.24	28.96	52.83	23.87	
	0.535	28.64	0.33	28.97	46.00	17.03	
	1.352	24.37	0.34	24.71	46.00	21.29	
	5.362	26.28	0.52	26.80	50.00	23.20	
	14.517	25.78	0.84	26.62	50.00	23.38	
Neutral	0.164	51.08	0.13	51.21	65.25	14.04	QP
	0.220	39.73	0.11	39.84	62.83	22.99	
	0.524	39.78	0.17	39.95	56.00	16.05	
	1.734	35.64	0.18	35.82	56.00	20.18	
	5.476	37.22	0.44	37.66	60.00	22.34	
	14.213	36.66	0.72	37.38	60.00	22.62	
	0.164	40.10	0.13	40.23	55.25	15.02	AV
	0.220	28.40	0.11	28.51	52.83	24.32	
	0.524	28.64	0.17	28.81	46.00	17.19	
	1.734	24.14	0.18	24.32	46.00	21.68	
	5.476	26.88	0.44	27.32	50.00	22.68	
	14.213	25.64	0.72	26.36	50.00	23.64	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : D-Sub 1920*1080@60Hz Adapter #4 : 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	0.164	52.51	0.24	52.75	65.25	12.50	QP
	0.223	40.84	0.24	41.08	62.70	21.62	
	0.529	34.03	0.34	34.37	56.00	21.63	
	1.535	29.84	0.37	30.21	56.00	25.79	
	5.476	31.37	0.52	31.89	60.00	28.11	
	14.517	26.39	0.84	27.23	60.00	32.77	
	0.164	41.26	0.24	41.50	55.25	13.75	AV
	0.223	29.37	0.24	29.61	52.70	23.09	
	0.529	23.62	0.34	23.96	46.00	22.04	
	1.535	18.67	0.37	19.04	46.00	26.96	
	5.476	20.65	0.52	21.17	50.00	28.83	
	14.517	15.83	0.84	16.67	50.00	33.33	
Neutral	0.164	52.09	0.13	52.22	65.25	13.03	QP
	0.223	40.13	0.11	40.24	62.70	22.46	
	0.541	32.22	0.17	32.39	56.00	23.61	
	1.367	27.15	0.21	27.36	56.00	28.64	
	5.419	28.35	0.44	28.79	60.00	31.21	
	24.142	27.02	1.04	28.06	60.00	31.94	
	0.164	41.26	0.13	41.39	55.25	13.86	AV
	0.223	29.37	0.11	29.48	52.70	23.22	
	0.541	21.58	0.17	21.75	46.00	24.25	
	1.367	16.52	0.21	16.73	46.00	29.27	
	5.419	17.63	0.44	18.07	50.00	31.93	
	24.142	16.52	1.04	17.56	50.00	32.44	

TEST ENGINEER: WENCY YANG

4 RADIATED EMISSION TEST

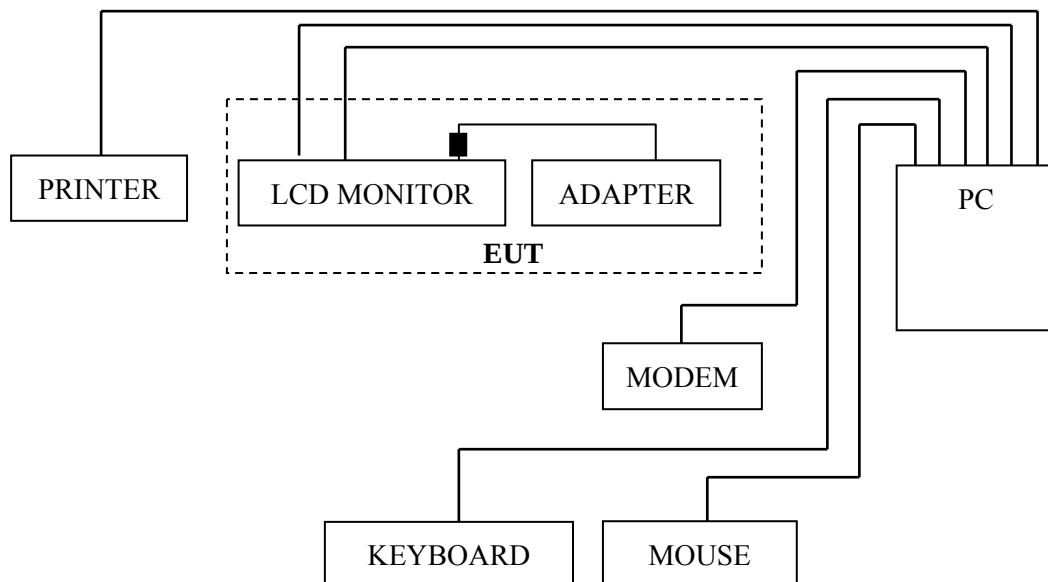
4.1 Test Equipment

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	ESVS10	844594/001	Mar 22, 2012	Mar 22, 2013
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 18, 2012	Sep 18, 2012
3.	Preamplifier	HP	8449B	3008A00864	Mar 22, 2012	Mar 22, 2013
4.	Bi-log Antenna	TESEQ	CBL6112D	23192	Dec 01, 2011	Dec 01, 2012
5.	Horn Antenna	EMCO	3115	9607-4878	May 06, 2011	May 06, 2012
6.	Spectrum	Agilent	E7405A	MY45106600	Mar 22, 2012	Mar 22, 2013
7.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426390	Mar 18, 2012	Sep 18, 2012
8.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals

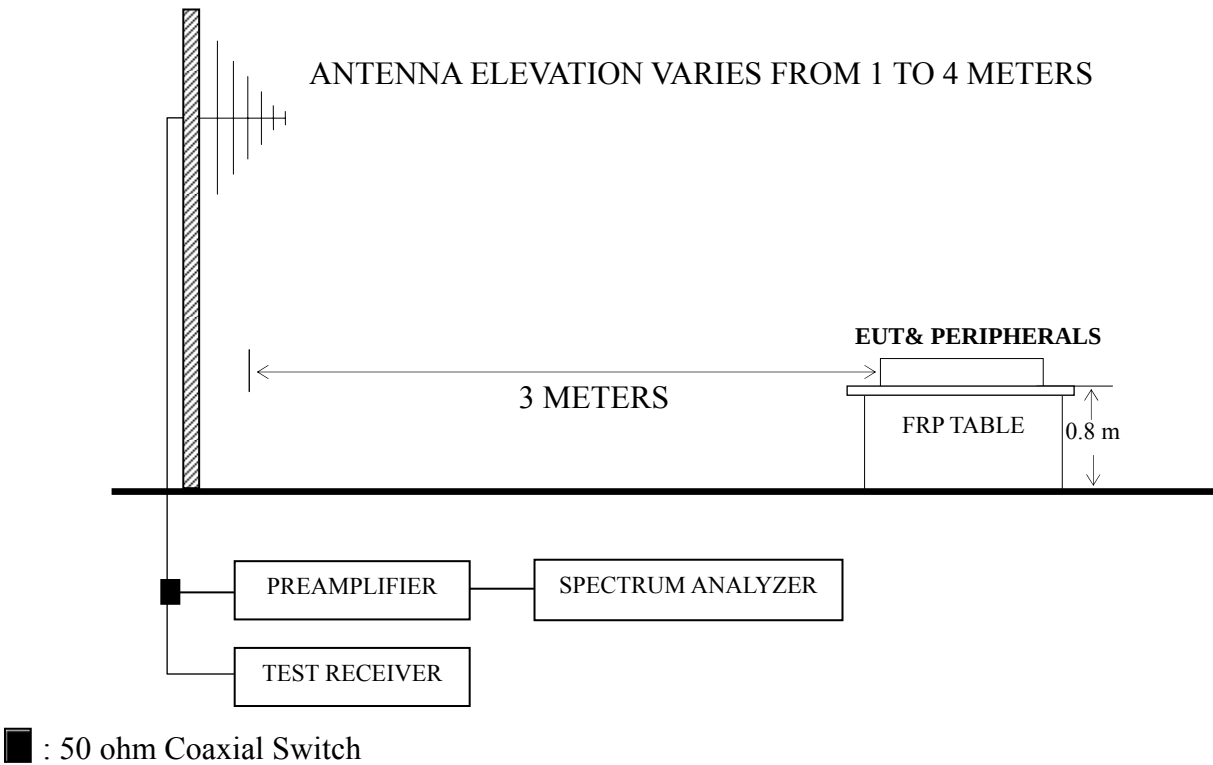


■ : Ferrite core

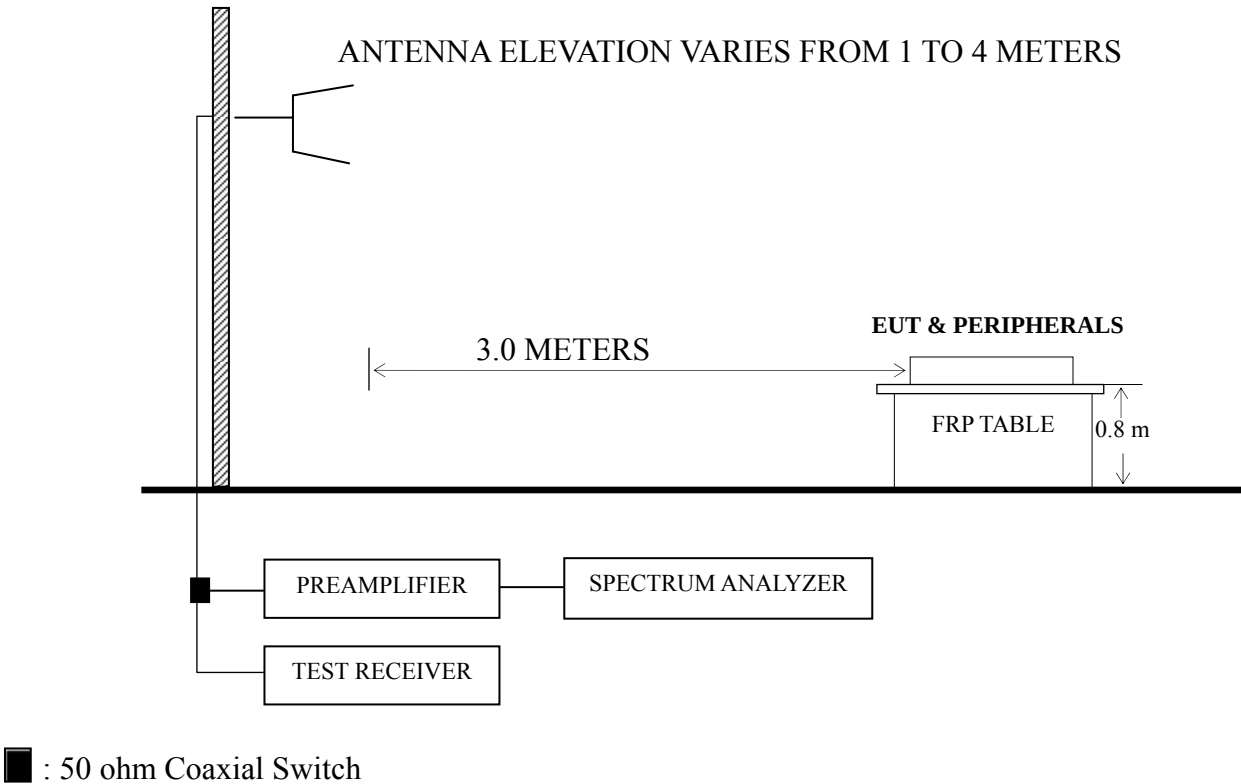
Note: Ferrite core only for Adapter #1

4.2.2 Radiated emission test setup

4.2.2.1 Below 1GHz



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 ESVS10 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	Data Page
Adapter #1	D-Sub 1920*1080@60Hz	P26
	DVI 1920*1080@60Hz	P27
	DVI 1680*1050@60Hz	P28
	DVI 1280*1024@75Hz	P29 – P30
	DVI 640*480@60Hz	P31
Adapter #2	DVI 1280*1024@75Hz	P32
Adapter #3	DVI 1280*1024@75Hz	P33
Adapter #4	DVI 1280*1024@75Hz	P34

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

NOTE 2 – Emission Level = Antenna Factor + Cable Loss + Meter Reading. (< 1GHz)

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

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 LCD panel #1 and adapter #1, then selected the worst test mode to perform test with other adapters and LCD panel.

NOTE 8 – The worst case is for DVI 1280*1024@75Hz test mode (Adapter #1). The worst emission at horizontal polarization was detected at 378.230 MHz with corrected signal level of 41.87 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 0°. The worst emission at vertical polarization was detected at 209.450 MHz with corrected signal level of 38.77 dB (μV/m) (limit is 43.50 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 150°.

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : 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	65.890	15.39	9.55	1.32	26.26	40.00	13.74
	143.490	21.13	10.54	2.19	33.86	43.50	9.64
	197.810	25.20	9.82	2.42	37.44	43.50	6.06
	347.190	16.90	15.04	2.88	34.82	46.00	11.18
	396.660	17.35	16.24	2.98	36.57	46.00	9.43
	872.930	15.42	20.37	4.60	40.39	46.00	5.61
Vertical	143.490	14.74	10.54	2.19	27.47	43.50	16.03
	197.810	18.86	9.82	2.42	31.10	43.50	12.40
	247.280	19.94	11.85	2.60	34.39	46.00	11.61
	347.190	22.25	15.04	2.88	40.17	46.00	5.83
	396.660	20.29	16.24	2.98	39.51	46.00	6.49
	495.600	9.01	17.56	3.25	29.82	46.00	16.18

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #1 : 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	143.490	14.40	10.54	2.19	27.13	43.50	16.37
	210.420	21.38	10.22	2.46	34.06	43.50	9.44
	247.280	19.25	11.85	2.60	33.70	46.00	12.30
	347.190	23.00	15.04	2.88	40.92	46.00	5.08
	396.660	22.25	16.24	2.98	41.47	46.00	4.53
	741.980	14.86	19.98	3.78	38.62	46.00	7.38
Vertical	49.400	18.23	8.69	0.91	27.83	40.00	12.17
	65.890	18.18	9.55	1.32	29.05	40.00	10.95
	143.490	21.81	10.54	2.19	34.54	43.50	8.96
	197.810	26.13	9.82	2.42	38.37	43.50	5.13
	380.170	16.42	15.90	2.95	35.27	46.00	10.73
	446.130	16.37	16.92	3.11	36.40	46.00	9.60

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : DVI 1680*1050@60Hz Adapter #1 : 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	45.520	18.14	10.09	0.89	29.12	40.00	10.88
	60.070	18.16	9.14	1.19	28.49	40.00	11.51
	87.230	19.06	10.88	1.70	31.64	40.00	8.36
	143.490	19.17	10.54	2.19	31.90	43.50	11.60
	207.510	26.78	10.11	2.45	39.34	43.50	4.16
	360.770	18.94	15.41	2.91	37.26	46.00	8.74
Vertical	90.140	9.96	11.00	1.73	22.69	43.50	20.81
	143.490	13.24	10.54	2.19	25.97	43.50	17.53
	180.350	17.58	9.99	2.36	29.93	43.50	13.57
	211.390	19.44	10.26	2.47	32.17	43.50	11.33
	268.620	21.53	12.74	2.66	36.93	46.00	9.07
	360.770	18.99	15.41	2.91	37.31	46.00	8.69

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : DVI 1280*1024@75Hz Adapter #1 : LCAP21

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	71.710	7.78	9.99	1.45	--	19.22	40.00	20.78	QP
	143.490	17.12	10.54	2.19	--	29.85	43.50	13.65	
	210.420	22.43	10.22	2.46	--	35.11	43.50	8.39	
	378.230	23.09	15.83	2.95	--	41.87	46.00	4.13	
	396.660	18.46	16.24	2.98	--	37.68	46.00	8.32	
	540.220	12.74	17.84	3.34	--	33.92	46.00	12.08	
	1020.000	42.57	24.98	5.22	38.16	34.61	74.00	39.39	PK
	1210.000	41.48	25.87	5.37	37.73	34.99	74.00	39.01	
	1280.000	44.93	26.23	5.47	37.56	39.07	74.00	34.93	
	1365.000	46.64	26.59	5.55	37.33	41.45	74.00	32.55	
	1595.000	44.05	27.08	5.93	36.77	40.29	74.00	33.71	
	1760.000	46.91	27.23	6.17	36.49	43.82	74.00	30.18	
	1020.000	33.57	24.98	5.22	38.16	25.61	54.00	28.39	AV
	1210.000	31.48	25.87	5.37	37.73	24.99	54.00	29.01	
	1280.000	34.93	26.23	5.47	37.56	29.07	54.00	24.93	
	1365.000	36.64	26.59	5.55	37.33	31.45	54.00	22.55	
	1595.000	36.05	27.08	5.93	36.77	32.29	54.00	21.71	
	1760.000	37.91	27.23	6.17	36.49	34.82	54.00	19.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : DVI 1280*1024@75Hz Adapter #1 : LCAP21

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	65.890	17.18	9.55	1.32	--	28.05	40.00	11.95	QP
	107.600	18.94	11.22	1.92	--	32.08	43.50	11.42	
	143.490	21.80	10.54	2.19	--	34.53	43.50	8.97	
	209.450	26.13	10.18	2.46	--	38.77	43.50	4.73	
	378.230	21.16	15.83	2.95	--	39.94	46.00	6.06	
	540.220	18.19	17.84	3.34	--	39.37	46.00	6.63	
	1080.000	44.01	25.24	4.50	38.03	35.72	74.00	38.28	PK
	1315.000	45.96	26.39	4.53	37.48	39.40	74.00	34.60	
	1465.000	41.64	26.90	4.55	37.06	36.03	74.00	37.97	
	1590.000	39.99	27.07	4.56	36.78	34.84	74.00	39.16	
	1670.000	43.61	27.14	4.57	36.63	38.69	74.00	35.31	
	1760.000	47.40	27.23	4.58	36.49	42.72	74.00	31.28	
	1080.000	38.01	25.24	4.50	38.03	29.72	54.00	24.28	AV
	1315.000	35.96	26.39	4.53	37.48	29.40	54.00	24.60	
	1465.000	30.64	26.90	4.55	37.06	25.03	54.00	28.97	
	1590.000	29.99	27.07	4.56	36.78	24.84	54.00	29.16	
	1670.000	35.61	27.14	4.57	36.63	30.69	54.00	23.31	
	1760.000	36.40	27.23	4.58	36.49	31.72	54.00	22.28	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : DVI 640*480@60Hz Adapter #1 : 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	32.910	8.62	16.79	0.82	26.23	40.00	13.77
	65.890	17.39	9.55	1.32	28.26	40.00	11.74
	74.620	17.21	10.21	1.51	28.93	40.00	11.07
	146.400	19.73	10.49	2.20	32.42	43.50	11.08
	209.450	24.91	10.18	2.46	37.55	43.50	5.95
	376.290	18.66	15.79	2.93	37.38	46.00	8.62
Vertical	74.620	9.84	10.21	1.51	21.56	40.00	18.44
	147.370	15.59	10.46	2.22	28.27	43.50	15.23
	224.970	18.64	10.84	2.52	32.00	46.00	14.00
	301.600	15.70	13.77	2.76	32.23	46.00	13.77
	369.500	12.49	15.64	2.92	31.05	46.00	14.95
	483.960	7.46	17.42	3.23	28.11	46.00	17.89

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : DVI 1280*1024@75Hz Adapter #2 : 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	45.520	13.14	10.09	0.89	24.12	40.00	15.88
	60.070	15.16	9.14	1.19	25.49	40.00	14.51
	87.230	17.06	10.88	1.70	29.64	40.00	10.36
	180.350	16.87	9.99	2.36	29.22	43.50	14.28
	207.510	21.78	10.11	2.45	34.34	43.50	9.16
	360.770	14.94	15.41	2.91	33.26	46.00	12.74
Vertical	180.350	17.58	9.99	2.36	29.93	43.50	13.57
	211.390	19.44	10.26	2.47	32.17	43.50	11.33
	268.620	21.53	12.74	2.66	36.93	46.00	9.07
	360.770	18.99	15.41	2.91	37.31	46.00	8.69
	675.050	12.17	19.19	3.64	35.00	46.00	11.00
	810.850	13.81	20.57	3.99	38.37	46.00	7.63

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : DVI 1280*1024@75Hz Adapter #3 : 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	65.890	17.39	9.55	1.32	28.26	40.00	11.74
	74.620	17.21	10.21	1.51	28.93	40.00	11.07
	146.400	19.73	10.49	2.20	32.42	43.50	11.08
	209.450	24.91	10.18	2.46	37.55	43.50	5.95
	376.290	18.66	15.79	2.93	37.38	46.00	8.62
	527.610	15.48	17.77	3.33	36.58	46.00	9.42
Vertical	147.370	15.59	10.46	2.22	28.27	43.50	15.23
	224.970	18.64	10.84	2.52	32.00	46.00	14.00
	301.600	15.70	13.77	2.76	32.23	46.00	13.77
	369.500	12.49	15.64	2.92	31.05	46.00	14.95
	483.960	7.46	17.42	3.23	28.11	46.00	17.89
	875.840	10.59	20.37	4.75	35.71	46.00	10.29

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1204493-01/01 Date of Test : May 03, 2012

Test Mode : DVI 1280*1024@75Hz Adapter #4 : 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	143.490	22.12	10.54	2.19	34.85	43.50	8.65
	210.420	18.43	10.22	2.46	31.11	43.50	12.39
	269.590	15.86	12.78	2.66	31.30	46.00	14.70
	378.230	18.09	15.83	2.95	36.87	46.00	9.13
	540.220	7.74	17.84	3.34	28.92	46.00	17.08
	810.850	7.80	20.57	3.99	32.36	46.00	13.64
Vertical	65.890	13.18	9.55	1.32	24.05	40.00	15.95
	107.600	13.94	11.22	1.92	27.08	43.50	16.42
	143.490	16.80	10.54	2.19	29.53	43.50	13.97
	209.450	21.13	10.18	2.46	33.77	43.50	9.73
	378.230	15.16	15.83	2.95	33.94	46.00	12.06
	540.220	14.19	17.84	3.34	35.37	46.00	10.63

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.