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

LCD Monitor

Model No.: E2251TZ

Serial No.: E11121473-01/01

FCC ID : BEJE2251TZ

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

Prepared By : Audix Technology (Shanghai) Co., Ltd.
3F and 4F 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai 200233, China

Tel: +86-21-64955500
Fax: +86-21-64955491

Report No. : ACI-F11177
Date of Test : Dec 07 – 09, 2011
Date of Report : Dec 22, 2011

TABLE OF CONTENTS

Page

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. : E2251TZ
		(B) Serial No. : E11121473-01/01
		(C) Power Supply : 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2010 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: E2251TZ; S/N: E11121473-01/01) which was tested in 3m anechoic chamber Dec 07 – 09, 2011 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 : Dec 07 – 09, 2011 Date of Report : Dec 22, 2011

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 2010 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2010 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. : E2251TZ

Serial No. : E11121473-01/01

Real Power : 25.10W (Adapter #1)
25.10W (Adapter #2)
25.70W (Adapter #3)
24.90W (Adapter #4)

AC Adapter #1 : Manufacturer : HONOR
Model Number : ADS-40SG-19-3 19032G
Input : 100-240V~, 50-60Hz 1.0A
Output : 19V ⎓ 1.7A
Output Cable : Unshielded, Undetachable, 1.8m

AC Adapter #2 : Manufacturer : LIEN CHANG
Model Number : LCAP21A
Input : 100-240V~, 50-60Hz 1.1A
Output : 19V ⎓ 1.7A
Output Cable : Unshielded, Undetachable, 1.8m, with one core

AC Adapter #3 : 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 ⎓ 1.7A
Output Cable : Unshielded, Undetachable, 1.8m

AC Adapter #4 : 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 ⎓ 1.7A
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	: Manufacturer: L&T Display Technology (Fujian) Ltd. M/N : BM215WF4 (TJ)(C1)
Max Resolution	: 1920*1080@60Hz
D-Sub Cable #1	: Shielded, Detachable, 1.50m, with two cores on cable
D-Sub Cable #2	: Shielded, Detachable, 1.80m, with two cores in connector
DVI Cable #1	: Shielded, Detachable, 1.50m, with two cores on cable
DVI Cable #2	: Shielded, Detachable, 1.85m, with two cores in connector
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 In 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 Printer

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

2.2.3 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

2.2.4 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

2.2.5 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 (Semi-Anechoic Chamber)	:	Sept. 17, 1998 file on 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 = 3.38 dB
Radiated Emission Expanded Uncertainty (30-200MHz):
U = 4.58 dB (Horizontal)
U = 4.70 dB (Vertical)
Radiated Emission Expanded Uncertainty (200M-1GHz):
U = 4.84 dB (Horizontal)
U = 4.70 dB (Vertical)

3 CONDUCTED EMISSION TEST

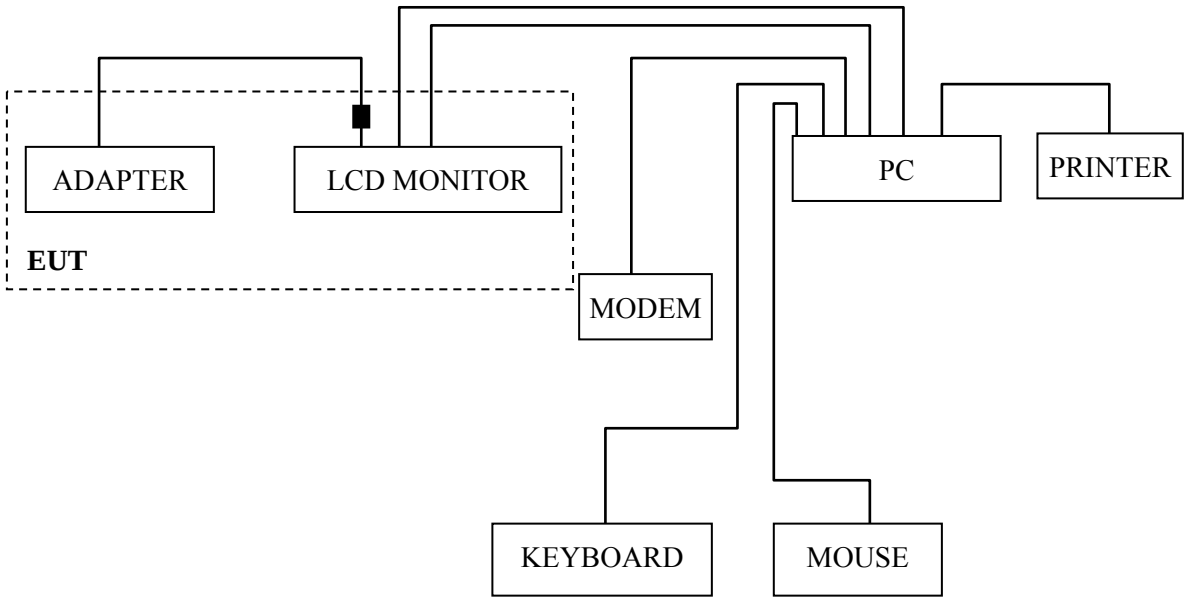
3.1 Test Equipment

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, 2011	Mar 22, 2012
2.	Artificial Mains Network (AMN)	R&S	ENV4200	100125	Mar 22, 2011	Mar 22, 2012
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Mar 22, 2011	Mar 22, 2012
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 18, 2011	Mar 18, 2012
5.	50Ω Terminator	Anritsu	BNC	001	Mar 22, 2011	Mar 22, 2012
6.	Software	Audix	E3	SET00200 9804M592	--	--

3.2 Block Diagram of Test Setup

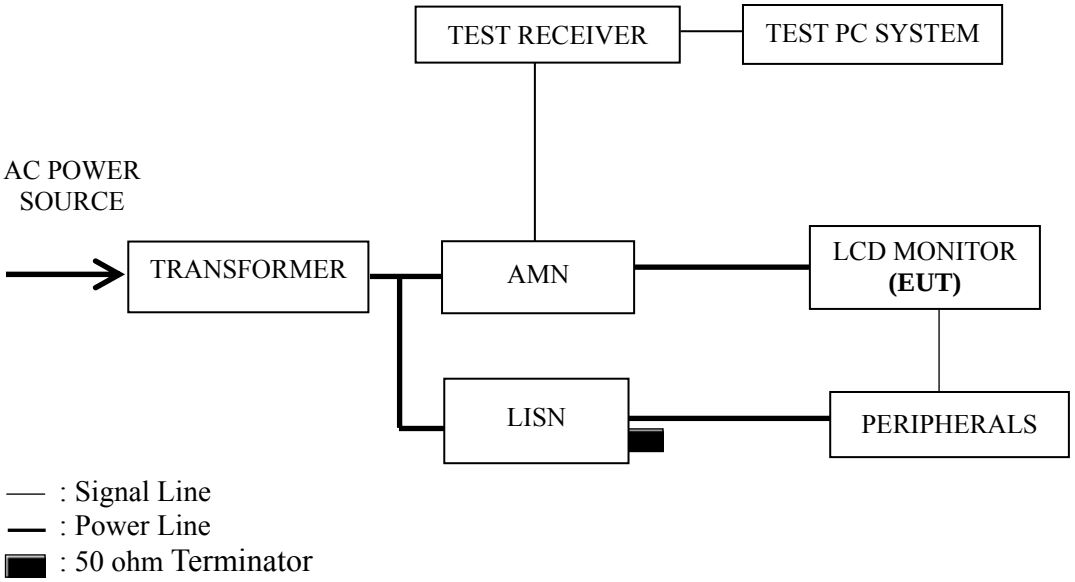
3.2.1 EUT & Peripherals



■ : Ferrite core

Note: Ferrite core only for Adapter #2

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

NOTE: We tested the EUT with adapter #1 and selected the worst test mode to perform test with adapter #2/#3/#4.

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 640*480@60Hz	P13
	D-Sub 1280*1024@75Hz	P14
	D-Sub 1680*1050@60Hz	P15
	D-Sub 1920*1080@60Hz	P16
	DVI 640*480@60Hz	P17
	DVI 1280*1024@75Hz	P18
	DVI 1680*1050@60Hz	P19
	DVI 1920*1080@60Hz	P20
Adapter #2	D-Sub 1680*1050@60Hz	P21
Adapter #3	**D-Sub 1680*1050@60Hz**	**P22**
Adapter #4	D-Sub 1680*1050@60Hz	P23

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 1680*1050@60Hz test mode (Adaptor #3). The worst emission is detected at 0.150 MHz (Average Value) with corrected signal level of 49.33 dB (μV) (limit is 56.00 dB (μV)), when the Line of the EUT is connected to AMN.

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2251TZ	Humidity	:	48%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 07, 2011
Test Mode	:	D-Sub 640*480@60Hz	Adapter #1	:	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	0.159	39.89	9.89	49.78	65.52	15.74	QP
	0.300	35.57	9.77	45.34	60.24	14.90	
	0.389	34.33	9.75	44.08	58.08	14.00	
	0.743	31.45	10.09	41.54	56.00	14.46	
	1.433	31.91	10.17	42.08	56.00	13.92	
	4.721	33.53	10.07	43.60	56.00	12.40	
	0.159	29.36	9.89	39.25	55.52	16.27	AV
	0.300	25.61	9.77	35.38	50.24	14.86	
	0.389	24.85	9.75	34.60	48.08	13.48	
	0.743	21.95	10.09	32.04	46.00	13.96	
	1.433	21.04	10.17	31.21	46.00	14.79	
	4.721	23.60	10.07	33.67	46.00	12.33	
Neutral	0.168	38.25	9.87	48.12	65.08	16.96	QP
	0.300	35.81	9.75	45.56	60.24	14.68	
	0.505	35.31	9.75	45.06	56.00	10.94	
	0.862	30.48	9.90	40.38	56.00	15.62	
	1.480	31.67	9.98	41.65	56.00	14.35	
	3.681	35.84	10.17	46.01	56.00	9.99	
	0.168	28.59	9.87	38.46	55.08	16.62	AV
	0.300	25.60	9.75	35.35	50.24	14.89	
	0.505	25.46	9.75	35.21	46.00	10.79	
	0.862	20.10	9.90	30.00	46.00	16.00	
	1.480	21.05	9.98	31.03	46.00	14.97	
	3.681	**25.90**	**10.17**	**36.07**	**46.00**	**9.93**	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	E2251TZ	Humidity	:	48%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 07, 2011
Test Mode	:	D-Sub 1280*1024@75Hz	Adapter #1	:	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	0.162	38.48	9.89	48.37	65.34	16.97	QP
	0.300	34.81	9.77	44.58	60.24	15.66	
	0.499	34.36	9.75	44.11	56.01	11.90	
	0.974	30.72	10.20	40.92	56.00	15.08	
	1.858	30.15	10.14	40.29	56.00	15.71	
	4.772	33.20	10.07	43.27	56.00	12.73	
	0.162	28.89	9.89	38.78	55.34	16.56	AV
	0.300	24.15	9.77	33.92	50.24	16.32	
	0.499	24.15	9.75	33.90	46.01	12.11	
	0.974	20.13	10.20	30.33	46.00	15.67	
	1.858	20.15	10.14	30.29	46.00	15.71	
	4.772	23.90	10.07	33.97	46.00	12.03	
Neutral	0.157	40.80	9.89	50.69	65.60	14.91	QP
	0.300	35.56	9.75	45.31	60.24	14.93	
	0.494	34.66	9.75	44.41	56.10	11.69	
	0.890	31.24	9.91	41.15	56.00	14.85	
	1.487	31.12	9.98	41.10	56.00	14.90	
	3.901	**35.79**	**10.19**	**45.98**	**56.00**	**10.02**	
	0.157	30.26	9.89	40.15	55.60	15.45	AV
	0.300	25.16	9.75	34.91	50.24	15.33	
	0.494	24.01	9.75	33.76	46.10	12.34	
	0.890	21.00	9.91	30.91	46.00	15.09	
	1.487	21.56	9.98	31.54	46.00	14.46	
	3.901	24.95	10.19	35.14	46.00	10.86	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	E2251TZ	Humidity	:	48%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 07, 2011
Test Mode	:	D-Sub 1680*1050@60Hz	Adapter #1	:	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	0.169	37.95	9.87	47.82	64.99	17.17	QP
	0.300	35.36	9.77	45.13	60.24	15.11	
	0.489	34.39	9.75	44.14	56.19	12.05	
	0.953	30.86	10.19	41.05	56.00	14.95	
	1.503	31.59	10.15	41.74	56.00	14.26	
	4.672	33.42	10.07	43.49	56.00	12.51	
	0.169	27.48	9.87	37.35	54.99	17.64	AV
	0.300	25.60	9.77	35.37	50.24	14.87	
	0.489	24.59	9.75	34.34	46.19	11.85	
	0.953	20.15	10.19	30.34	46.00	15.66	
	1.503	21.06	10.15	31.21	46.00	14.79	
	4.672	23.60	10.07	33.67	46.00	12.33	
Neutral	0.169	38.31	9.86	48.17	64.99	16.82	QP
	0.300	35.59	9.75	45.34	60.24	14.90	
	0.377	35.96	9.74	45.70	58.34	12.64	
	0.871	31.68	9.90	41.58	56.00	14.42	
	1.698	32.22	9.99	42.21	56.00	13.79	
	3.901	36.37	10.19	46.56	56.00	9.44	
	0.169	28.59	9.86	38.45	54.99	16.54	AV
	0.300	25.63	9.75	35.38	50.24	14.86	
	0.377	25.48	9.74	35.22	48.34	13.12	
	0.871	21.74	9.90	31.64	46.00	14.36	
	1.698	23.60	9.99	33.59	46.00	12.41	
	3.901	**26.59**	**10.19**	**36.78**	**46.00**	**9.22**	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	E2251TZ	Humidity	:	48%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 07, 2011
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #1	:	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	0.166	38.48	9.88	48.36	65.16	16.80	QP
	0.297	34.57	9.77	44.34	60.32	15.98	
	0.393	34.28	9.74	44.02	57.99	13.97	
	0.844	30.63	10.16	40.79	56.00	15.21	
	1.716	30.86	10.14	41.00	56.00	15.00	
	4.622	33.43	10.07	43.50	56.00	12.50	
	0.166	28.50	9.88	38.38	55.16	16.78	AV
	0.297	24.60	9.77	34.37	50.32	15.95	
	0.393	25.16	9.74	34.90	47.99	13.09	
	0.844	20.15	10.16	30.31	46.00	15.69	
	1.716	20.26	10.14	30.40	46.00	15.60	
	4.622	24.15	10.07	34.22	46.00	11.78	
Neutral	0.172	38.01	9.84	47.85	64.86	17.01	QP
	0.297	35.31	9.75	45.06	60.32	15.26	
	0.499	35.14	9.75	44.89	56.01	11.12	
	0.871	31.31	9.90	41.21	56.00	14.79	
	1.503	31.55	9.98	41.53	56.00	14.47	
	3.840	34.77	10.18	44.95	56.00	11.05	
	0.172	28.47	9.84	38.31	54.86	16.55	AV
	0.297	25.60	9.75	35.35	50.32	14.97	
	0.499	**25.90**	**9.75**	**35.65**	**46.01**	**10.36**	
	0.871	21.48	9.90	31.38	46.00	14.62	
	1.503	21.06	9.98	31.04	46.00	14.96	
	3.840	24.15	10.18	34.33	46.00	11.67	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2251TZ	Humidity :	48%RH	
Serial No.	:	E11121473-01/01	Date of Test :	Dec 07, 2011	
Test Mode	:	DVI 640*480@60Hz	Adapter #1 :	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	0.168	37.90	9.87	47.77	65.08	17.31	QP
	0.296	34.42	9.77	44.19	60.37	16.18	
	0.494	35.08	9.75	44.83	56.10	11.27	
	0.909	30.55	10.19	40.74	56.00	15.26	
	1.680	31.53	10.14	41.67	56.00	14.33	
	4.672	34.85	10.07	44.92	56.00	11.08	
	0.168	27.59	9.87	37.46	55.08	17.62	AV
	0.296	24.59	9.77	34.36	50.37	16.01	
	0.494	**26.26**	**9.75**	**36.01**	**46.10**	**10.09**	
	0.909	20.69	10.19	30.88	46.00	15.12	
	1.680	21.10	10.14	31.24	46.00	14.76	
	4.672	24.15	10.07	34.22	46.00	11.78	
Neutral	0.172	37.83	9.84	47.67	64.86	17.19	QP
	0.300	34.90	9.75	44.65	60.24	15.59	
	0.484	34.67	9.75	44.42	56.27	11.85	
	0.943	30.62	9.92	40.54	56.00	15.46	
	1.680	31.79	9.99	41.78	56.00	14.22	
	3.840	34.82	10.18	45.00	56.00	11.00	
	0.172	27.45	9.84	37.29	54.86	17.57	AV
	0.300	24.59	9.75	34.34	50.24	15.90	
	0.484	24.59	9.75	34.34	46.27	11.93	
	0.943	20.58	9.92	30.50	46.00	15.50	
	1.680	21.60	9.99	31.59	46.00	14.41	
	3.840	24.15	10.18	34.33	46.00	11.67	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	E2251TZ	Humidity	:	48%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 07, 2011
Test Mode	:	DVI 1280*1024@75Hz	Adapter #1	:	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	0.170	38.25	9.86	48.11	64.94	16.83	QP
	0.300	35.05	9.77	44.82	60.24	15.42	
	0.398	34.18	9.74	43.92	57.90	13.98	
	1.082	31.02	10.20	41.22	56.00	14.78	
	1.480	31.26	10.15	41.41	56.00	14.59	
	4.622	33.62	10.07	43.69	56.00	12.31	
	0.170	28.50	9.86	38.36	54.94	16.58	AV
	0.300	25.60	9.77	35.37	50.24	14.87	
	0.398	24.99	9.74	34.73	47.90	13.17	
	1.082	21.45	10.20	31.65	46.00	14.35	
	1.480	21.06	10.15	31.21	46.00	14.79	
	4.622	23.48	10.07	33.55	46.00	12.45	
Neutral	0.170	37.83	9.86	47.69	64.94	17.25	QP
	0.300	35.22	9.75	44.97	60.24	15.27	
	0.505	34.89	9.75	44.64	56.00	11.36	
	1.000	31.03	9.92	40.95	56.00	15.05	
	1.888	30.37	10.01	40.38	56.00	15.62	
	3.840	34.33	10.18	44.51	56.00	11.49	
	0.170	27.48	9.86	37.34	54.94	17.60	AV
	0.300	26.59	9.75	36.34	50.24	13.90	
	0.505	**25.01**	**9.75**	**34.76**	**46.00**	**11.24**	
	1.000	21.05	9.92	30.97	46.00	15.03	
	1.888	20.30	10.01	30.31	46.00	15.69	
	3.840	24.50	10.18	34.68	46.00	11.32	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	E2251TZ	Humidity	:	48%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 07, 2011
Test Mode	:	DVI 1680*1050@60Hz	Adapter #1	:	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	0.168	37.90	9.87	47.77	65.08	17.31	QP
	0.296	34.42	9.77	44.19	60.37	16.18	
	0.494	35.08	9.75	44.83	56.10	11.27	
	0.909	30.55	10.19	40.74	56.00	15.26	
	1.680	31.53	10.14	41.67	56.00	14.33	
	4.672	34.85	10.07	44.92	56.00	11.08	
	0.168	27.48	9.87	37.35	55.08	17.73	AV
	0.296	24.56	9.77	34.33	50.37	16.04	
	0.494	**25.60**	**9.75**	**35.35**	**46.10**	**10.75**	
	0.909	20.95	10.19	31.14	46.00	14.86	
	1.680	21.59	10.14	31.73	46.00	14.27	
	4.672	24.61	10.07	34.68	46.00	11.32	
Neutral	0.161	39.27	9.89	49.16	65.43	16.27	QP
	0.296	35.01	9.75	44.76	60.37	15.61	
	0.375	34.97	9.74	44.71	58.39	13.68	
	0.871	31.11	9.90	41.01	56.00	14.99	
	1.535	30.29	9.99	40.28	56.00	15.72	
	3.642	33.57	10.16	43.73	56.00	12.27	
	0.161	29.59	9.89	39.48	55.43	15.95	AV
	0.296	26.59	9.75	36.34	50.37	14.03	
	0.375	24.89	9.74	34.63	48.39	13.76	
	0.871	21.59	9.90	31.49	46.00	14.51	
	1.535	20.59	9.99	30.58	46.00	15.42	
	3.642	23.61	10.16	33.77	46.00	12.23	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	E2251TZ	Humidity	:	48%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 07, 2011
Test Mode	:	DVI 1920*1080@60Hz	Adapter #1	:	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	0.170	37.75	9.86	47.61	64.94	17.33	QP
	0.297	34.64	9.77	44.41	60.32	15.91	
	0.494	34.05	9.75	43.80	56.10	12.30	
	0.890	31.71	10.18	41.89	56.00	14.11	
	1.645	31.34	10.14	41.48	56.00	14.52	
	4.622	33.36	10.07	43.43	56.00	12.57	
	0.170	27.48	9.86	37.34	54.94	17.60	AV
	0.297	24.26	9.77	34.03	50.32	16.29	
	0.494	**24.50**	**9.75**	**34.25**	**46.10**	**11.85**	
	0.890	21.62	10.18	31.80	46.00	14.20	
	1.645	21.95	10.14	32.09	46.00	13.91	
	4.622	23.90	10.07	33.97	46.00	12.03	
Neutral	0.159	39.56	9.89	49.45	65.52	16.07	QP
	0.297	35.03	9.75	44.78	60.32	15.54	
	0.385	35.55	9.74	45.29	58.17	12.88	
	0.759	30.90	9.85	40.75	56.00	15.25	
	2.044	30.58	10.01	40.59	56.00	15.41	
	3.799	33.70	10.18	43.88	56.00	12.12	
	0.159	29.59	9.89	39.48	55.52	16.04	AV
	0.297	25.46	9.75	35.21	50.32	15.11	
	0.385	26.30	9.74	36.04	48.17	12.13	
	0.759	20.10	9.85	29.95	46.00	16.05	
	2.044	20.45	10.01	30.46	46.00	15.54	
	3.799	23.40	10.18	33.58	46.00	12.42	

TEST ENGINEER: WENCY YANG

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: E2251TZ	Humidity	:	48%RH	
Serial No.	: E11121473-01/01	Date of Test	:	Dec 07, 2011	
Test Mode	: D-Sub 1680*1050@60Hz	Adapter #2	:	LCAP21A	

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.170	48.11	9.86	57.97	64.94	6.97	QP
	0.242	36.79	9.78	46.57	62.04	15.47	
	0.360	28.98	9.74	38.72	58.74	20.02	
	0.880	17.74	10.18	27.92	56.00	28.08	
	1.908	16.75	10.14	26.89	56.00	29.11	
	4.874	23.33	10.07	33.40	56.00	22.60	
	0.170	38.10	9.86	47.96	54.94	6.98	AV
	0.242	26.59	9.78	36.37	52.04	15.67	
	0.360	20.48	9.74	30.22	48.74	18.52	
	0.880	17.74	10.18	27.92	46.00	18.08	
	1.908	9.59	10.14	19.73	46.00	26.27	
	4.874	13.59	10.07	23.66	46.00	22.34	
Neutral	0.161	47.10	9.89	56.99	65.43	8.44	QP
	0.240	36.06	9.76	45.82	62.08	16.26	
	0.426	27.44	9.75	37.19	57.33	20.14	
	0.822	20.71	9.87	30.58	56.00	25.42	
	1.449	20.15	9.97	30.12	56.00	25.88	
	4.202	22.67	10.19	32.86	56.00	23.14	
	0.161	**38.59**	**9.89**	**48.48**	**55.43**	**6.95**	AV
	0.240	26.74	9.76	36.50	52.08	15.58	
	0.426	18.90	9.75	28.65	47.33	18.68	
	0.822	11.23	9.87	21.10	46.00	24.90	
	1.449	10.60	9.97	20.57	46.00	25.43	
	4.202	13.21	10.19	23.40	46.00	22.60	

TEST ENGINEER: WENCY YANG

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: E2251TZ	Humidity	:	48%RH	
Serial No.	: E11121473-01/01	Date of Test	:	Dec 07, 2011	
Test Mode	: D-Sub 1680*1050@60Hz	Adapter #3	:	LCAP26-A	

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	49.08	10.18	59.26	66.00	6.74	QP
	0.240	30.13	9.78	39.91	62.08	22.17	
	0.406	31.67	9.74	41.41	57.73	16.32	
	0.708	29.65	10.07	39.72	56.00	16.28	
	2.133	29.91	10.14	40.05	56.00	15.95	
	4.772	30.75	10.07	40.82	56.00	15.18	
	0.150	**39.15**	**10.18**	**49.33**	**56.00**	**6.67**	AV
	0.240	20.13	9.78	29.91	52.08	22.17	
	0.406	21.61	9.74	31.35	47.73	16.38	
	0.708	19.51	10.07	29.58	46.00	16.42	
	2.133	20.13	10.14	30.27	46.00	15.73	
	4.772	20.48	10.07	30.55	46.00	15.45	
Neutral	0.159	47.48	9.89	57.37	65.52	8.15	QP
	0.244	28.15	9.76	37.91	61.95	24.04	
	0.489	30.60	9.75	40.35	56.19	15.84	
	1.010	30.68	9.92	40.60	56.00	15.40	
	2.110	28.97	10.01	38.98	56.00	17.02	
	4.772	31.73	10.21	41.94	56.00	14.06	
	0.159	37.15	9.89	47.04	55.52	8.48	AV
	0.244	18.49	9.76	28.25	51.95	23.70	
	0.489	20.13	9.75	29.88	46.19	16.31	
	1.010	20.16	9.92	30.08	46.00	15.92	
	2.110	19.56	10.01	29.57	46.00	16.43	
	4.772	21.06	10.21	31.27	46.00	14.73	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	E2251TZ	Humidity	:	48%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 07, 2011
Test Mode	:	D-Sub 1680*1050@60Hz	Adapter #4	:	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	0.159	47.62	9.89	57.51	65.52	8.01	QP
	0.240	36.45	9.78	46.23	62.08	15.85	
	0.350	33.49	9.74	43.23	58.96	15.73	
	0.716	22.12	10.08	32.20	56.00	23.80	
	1.888	20.47	10.14	30.61	56.00	25.39	
	4.454	30.44	10.08	40.52	56.00	15.48	
	0.159	37.80	9.89	47.69	55.52	7.83	AV
	0.240	26.50	9.78	36.28	52.08	15.80	
	0.350	23.16	9.74	32.90	48.96	16.06	
	0.716	12.50	10.08	22.58	46.00	23.42	
	1.888	11.03	10.14	21.17	46.00	24.83	
	4.454	20.47	10.08	30.55	46.00	15.45	
Neutral	0.161	47.16	9.89	57.05	65.43	8.38	QP
	0.242	36.61	9.76	46.37	62.04	15.67	
	0.352	30.94	9.74	40.68	58.91	18.23	
	0.890	20.79	9.91	30.70	56.00	25.30	
	1.662	21.57	9.99	31.56	56.00	24.44	
	4.549	30.64	10.21	40.85	56.00	15.15	
	0.161	**37.80**	**9.89**	**47.69**	**55.43**	**7.74**	AV
	0.242	26.80	9.76	36.56	52.04	15.48	
	0.352	20.15	9.74	29.89	48.91	19.02	
	0.890	11.26	9.91	21.17	46.00	24.83	
	1.662	12.59	9.99	22.58	46.00	23.42	
	4.549	20.47	10.21	30.68	46.00	15.32	

TEST ENGINEER: WENCY YANG

4 RADIATED EMISSION TEST

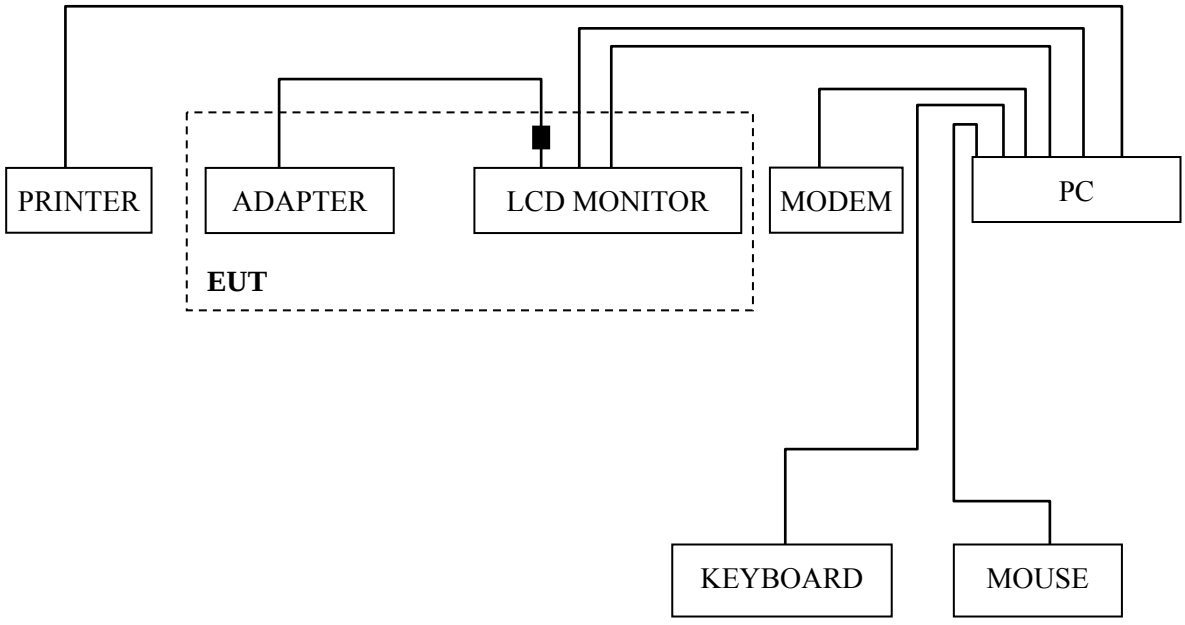
4.1 Test Equipment

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, 2011	Mar 22, 2012
2.	Preamplifier	Agilent	8447D	2944A10548	Sep 18, 2011	Mar 18, 2012
3.	Preamplifier	HP	8449B	3008A00864	Mar 22, 2011	Mar 22, 2012
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, 2011	Mar 22, 2012
7.	50Ω Coaxial Switch	Anritsu	MP59B	6200426390	Sep 18, 2011	Mar 18, 2012
8.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals

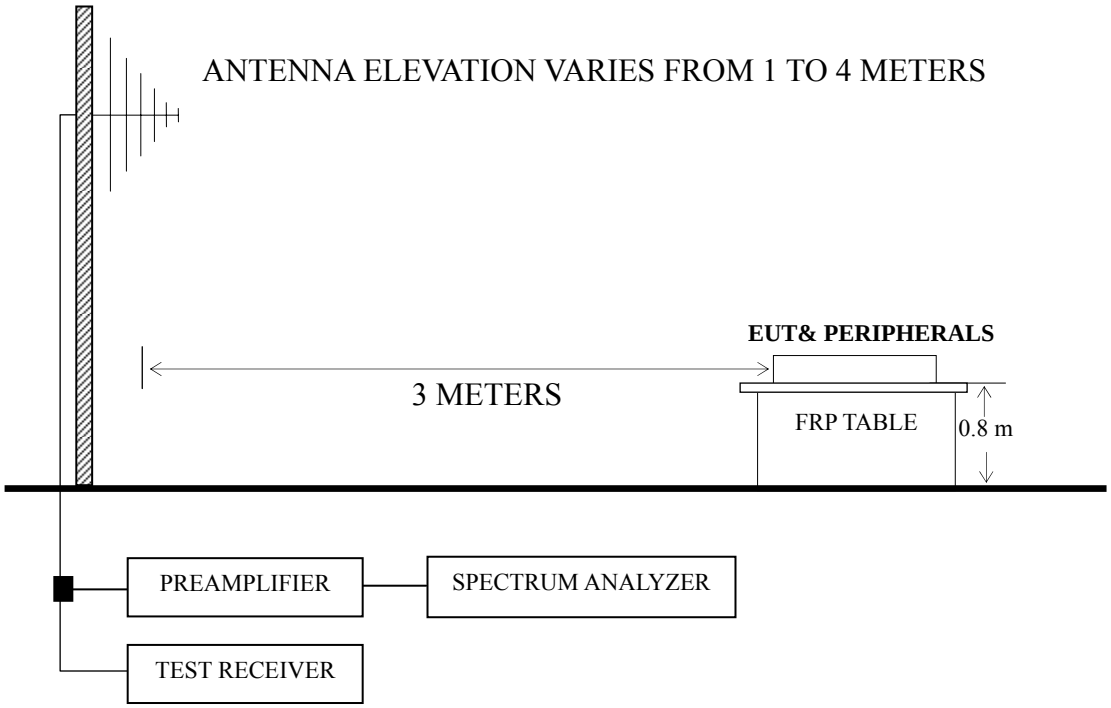


■ : Ferrite core

Note: Ferrite core only for Adapter #2

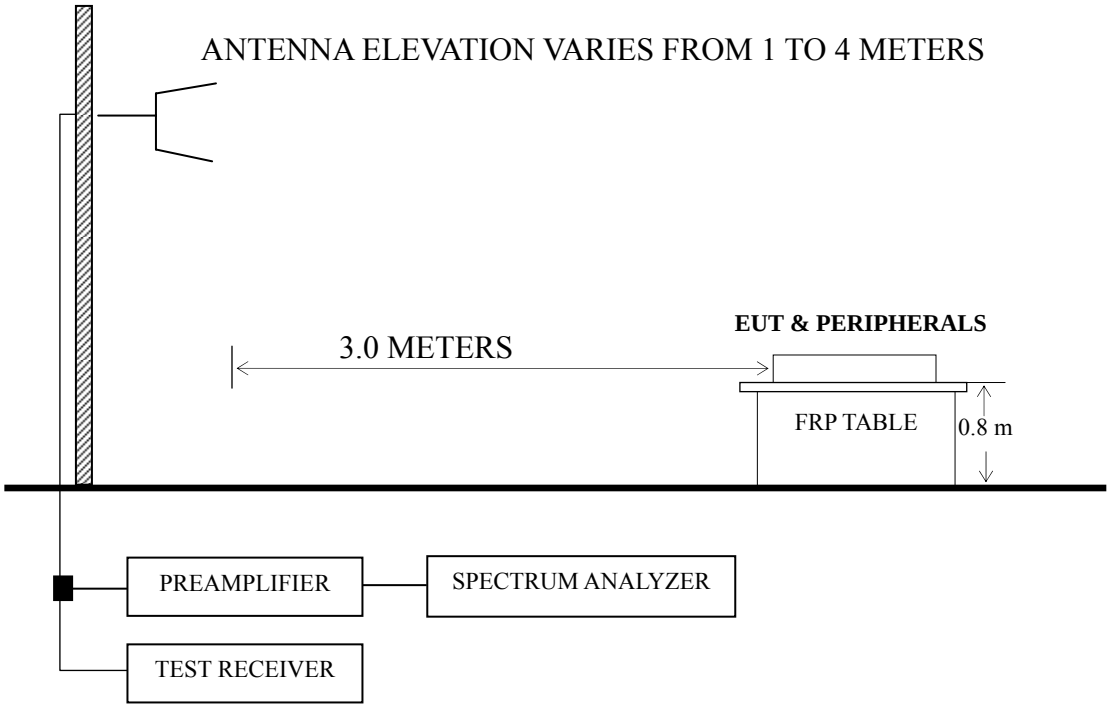
4.2.2 Radiated emission test setup

4.2.2.1 Below 1GHz



■ : 50 ohm Coaxial Switch

4.2.2.2 Above 1GHz



■ : 50 ohm Coaxial Switch

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

Frequency (MHz)	Distance (m)	Field strength limits	
		(μV/m)	dB (μV/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 (μV/m) = 20 log Emission Level (μV/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 D-Sub/DVI 1280*1024@75Hz, 1680*1050@60Hz and 1920*1080@60Hz modes.

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 640*480@60Hz	P29
	D-Sub 1280*1024@75Hz	P30 – P31
	D-Sub 1680*1050@60Hz	P32 – P33
	D-Sub 1920*1080@60Hz	**P34 – P35**
	DVI 640*480@60Hz	P36
	DVI 1280*1024@75Hz	P37 – P38
	DVI 1680*1050@60Hz	P39 – P40
	DVI 1920*1080@60Hz	P41 – P42
Adapter #2	D-Sub 1920*1080@60Hz	P43 – P44
Adapter #3	D-Sub 1920*1080@60Hz	P45 – P46
Adapter #4	D-Sub 1920*1080@60Hz	P47 – P48

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 – The worst case is for D-Sub 1920*1080@60Hz test mode (Adapter #1). The worst emission at horizontal polarization was detected at 321.970 MHz with corrected signal level of 44.37 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 120°. The worst emission at vertical polarization was detected at 39.700 MHz with corrected signal level of 34.23 dB (μV/m) (limit is 40.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 250°.

EUT	:	LCD Monitor	Temperature :	22℃
Model No.	:	E2251TZ	Humidity :	60%RH
Serial No.	:	E11121473-01/01	Date of Test :	Dec 09, 2011
Test Mode	:	D-Sub 640*480@60Hz	Adapter #1 :	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	53.280	9.99	8.70	1.01	19.70	40.00	20.30
	105.660	10.92	11.26	1.90	24.08	43.50	19.42
	167.740	16.94	10.14	2.31	29.39	43.50	14.11
	191.990	17.76	9.87	2.40	30.03	43.50	13.47
	291.900	**22.77**	**13.49**	**2.74**	**39.00**	**46.00**	**7.00**
	321.970	18.58	14.30	2.82	35.70	46.00	10.30
Vertical	32.910	16.30	16.79	0.82	33.91	40.00	6.09
	39.700	19.89	12.80	0.87	33.56	40.00	6.44
	53.280	**24.25**	**8.70**	**1.01**	**33.96**	**40.00**	**6.04**
	88.200	14.50	10.93	1.70	27.13	43.50	16.37
	132.820	18.37	10.77	2.12	31.26	43.50	12.24
	186.170	21.44	9.93	2.38	33.75	43.50	9.75

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2251TZ	Humidity :	60%RH	
Serial No.	:	E11121473-01/01	Date of Test :	Dec 09, 2011	
Test Mode	:	D-Sub 1280*1024@75Hz	Adapter #1 :	ADS-40SG-19-3 19032G	

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	54.250	12.49	8.76	1.03	--	22.28	40.00	17.72	QP
	105.660	11.56	11.26	1.90	--	24.72	43.50	18.78	
	291.900	21.97	13.49	2.74	--	38.20	46.00	7.80	
	321.970	**22.55**	**14.30**	**2.82**	**--**	**39.67**	**46.00**	**6.33**	
	431.580	12.01	16.72	3.08	--	31.81	46.00	14.19	
	527.610	14.36	17.77	3.33	--	35.46	46.00	10.54	
	1100.000	47.39	25.33	4.50	37.99	39.23	70.00	30.77	PK
	1200.000	44.25	25.82	4.51	37.76	36.82	70.00	33.18	
	1330.000	43.98	26.45	4.53	37.43	37.53	70.00	32.47	
	1545.000	46.57	27.04	4.56	36.86	41.31	70.00	28.69	
	1755.000	44.04	27.22	4.58	36.50	39.34	70.00	30.66	
	1905.000	43.38	27.34	4.69	36.30	39.11	70.00	30.89	
	1100.000	36.39	25.33	4.50	37.99	28.23	50.00	21.77	AV
	1200.000	34.25	25.82	4.51	37.76	26.82	50.00	23.18	
	1330.000	33.98	26.45	4.53	37.43	27.53	50.00	22.47	
	1545.000	36.57	27.04	4.56	36.86	31.31	50.00	18.69	
	1755.000	32.04	27.22	4.58	36.50	27.34	50.00	22.66	
	1905.000	31.38	27.34	4.69	36.30	27.11	50.00	22.89	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2251TZ	Humidity :	60%RH	
Serial No.	:	E11121473-01/01	Date of Test :	Dec 09, 2011	
Test Mode	:	D-Sub 1280*1024@75Hz	Adapter #1 :	ADS-40SG-19-3 19032G	

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
Vertical	**39.700**	**21.23**	**12.80**	**0.87**	**--**	**34.90**	**40.00**	**5.10**	QP
	53.280	21.30	8.70	1.01	--	31.01	40.00	8.99	
	88.200	14.60	10.93	1.70	--	27.23	43.50	16.27	
	186.170	18.17	9.93	2.38	--	30.48	43.50	13.02	
	291.900	16.54	13.49	2.74	--	32.77	46.00	13.23	
	468.440	13.83	17.22	3.19	--	34.24	46.00	11.76	
	1090.000	47.12	25.28	4.50	38.01	38.89	70.00	31.11	PK
	1210.000	45.12	25.87	4.51	37.73	37.77	70.00	32.23	
	1345.000	45.27	26.51	4.53	37.39	38.92	70.00	31.08	
	1475.000	42.84	26.93	4.55	37.03	37.29	70.00	32.71	
	1615.000	45.48	27.09	4.56	36.73	40.40	70.00	29.60	
	1775.000	42.77	27.24	4.58	36.47	38.12	70.00	31.88	
	1090.000	36.12	25.28	4.50	38.01	27.89	50.00	22.11	AV
	1210.000	35.12	25.87	4.51	37.73	27.77	50.00	22.23	
	1345.000	33.27	26.51	4.53	37.39	26.92	50.00	23.08	
	1475.000	30.84	26.93	4.55	37.03	25.29	50.00	24.71	
	1615.000	33.48	27.09	4.56	36.73	28.40	50.00	21.60	
	1775.000	29.77	27.24	4.58	36.47	25.12	50.00	24.88	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	D-Sub 1680*1050@60Hz	Adapter #1	:	ADS-40SG-19-3 19032G

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	105.660	11.24	11.26	1.90	--	24.40	43.50	19.10	QP
	191.990	17.12	9.87	2.40	--	29.39	43.50	14.11	
	239.520	21.61	11.51	2.57	--	35.69	46.00	10.31	
	321.970	**21.86**	**14.30**	**2.82**	**--**	**38.98**	**46.00**	**7.02**	
	527.610	14.24	17.77	3.33	--	35.34	46.00	10.66	
	872.930	11.19	20.37	4.60	--	36.16	46.00	9.84	
	1075.000	50.31	25.21	4.50	38.04	41.98	70.00	28.02	PK
	1160.000	45.72	25.61	4.51	37.85	37.99	70.00	32.01	
	1280.000	45.14	26.23	4.53	37.56	38.34	70.00	31.66	
	1390.000	44.93	26.67	4.54	37.27	38.87	70.00	31.13	
	1535.000	45.05	27.03	4.55	36.88	39.75	70.00	30.25	
	1830.000	44.08	27.29	4.61	36.40	39.58	70.00	30.42	
	1075.000	42.31	25.21	4.50	38.04	33.98	50.00	16.02	AV
	1160.000	36.72	25.61	4.51	37.85	28.99	50.00	21.01	
	1280.000	36.14	26.23	4.53	37.56	29.34	50.00	20.66	
	1390.000	35.93	26.67	4.54	37.27	29.87	50.00	20.13	
	1535.000	36.05	27.03	4.55	36.88	30.75	50.00	19.25	
	1830.000	34.08	27.29	4.61	36.40	29.58	50.00	20.42	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	D-Sub 1680*1050@60Hz	Adapter #1	:	ADS-40SG-19-3 19032G

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
Vertical	**37.760**	**22.49**	**14.00**	**0.86**	**--**	**37.35**	**40.00**	**2.65**	QP
	88.200	14.51	10.93	1.70	--	27.14	43.50	16.36	
	157.070	14.85	10.30	2.26	--	27.41	43.50	16.09	
	291.900	17.51	13.49	2.74	--	33.74	46.00	12.26	
	465.530	13.62	17.19	3.17	--	33.98	46.00	12.02	
	710.940	8.09	19.63	3.70	--	31.42	46.00	14.58	
	1070.000	45.23	25.19	4.50	38.05	36.87	70.00	33.13	PK
	1175.000	47.74	25.69	4.51	37.82	40.12	70.00	29.88	
	1250.000	50.33	26.08	4.52	37.65	43.28	70.00	26.72	
	1445.000	44.73	26.84	4.55	37.11	39.01	70.00	30.99	
	1590.000	44.17	27.07	4.56	36.78	39.02	70.00	30.98	
	1695.000	45.66	27.17	4.57	36.59	40.81	70.00	29.19	
	1070.000	34.23	25.19	4.50	38.05	25.87	50.00	24.13	AV
	1175.000	35.74	25.69	4.51	37.82	28.12	50.00	21.88	
	1250.000	38.33	26.08	4.52	37.65	31.28	50.00	18.72	
	1445.000	33.73	26.84	4.55	37.11	28.01	50.00	21.99	
	1590.000	32.17	27.07	4.56	36.78	27.02	50.00	22.98	
	1695.000	36.66	27.17	4.57	36.59	31.81	50.00	18.19	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #1	:	ADS-40SG-19-3 19032G

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	51.340	12.02	8.58	0.95	--	21.55	40.00	18.45	QP
	254.070	22.33	12.18	2.62	--	37.13	46.00	8.87	
	321.970	**27.25**	**14.30**	**2.82**	**--**	**44.37**	**46.00**	**1.63**	
	365.620	13.41	15.53	2.91	--	31.85	46.00	14.15	
	527.610	13.80	17.77	3.33	--	34.90	46.00	11.10	
	768.170	8.67	20.27	3.84	--	32.78	46.00	13.22	
	1065.000	43.64	25.17	4.50	38.07	35.24	70.00	34.76	PK
	1160.000	45.72	25.61	4.51	37.85	37.99	70.00	32.01	
	1265.000	42.15	26.16	4.52	37.60	35.23	70.00	34.77	
	1375.000	44.88	26.62	4.54	37.31	38.73	70.00	31.27	
	1515.000	42.66	27.01	4.55	36.93	37.29	70.00	32.71	
	1635.000	44.00	27.11	4.57	36.69	38.99	70.00	31.01	
	1065.000	38.64	25.17	4.50	38.07	30.24	50.00	19.76	AV
	1160.000	37.72	25.61	4.51	37.85	29.99	50.00	20.01	
	1265.000	35.15	26.16	4.52	37.60	28.23	50.00	21.77	
	1375.000	35.88	26.62	4.54	37.31	29.73	50.00	20.27	
	1515.000	33.66	27.01	4.55	36.93	28.29	50.00	21.71	
	1635.000	34.00	27.11	4.57	36.69	28.99	50.00	21.01	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #1	:	ADS-40SG-19-3 19032G

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
Vertical	**39.700**	**20.56**	**12.80**	**0.87**	**--**	**34.23**	**40.00**	**5.77**	QP
	88.200	14.10	10.93	1.70	--	26.73	43.50	16.77	
	156.100	16.23	10.31	2.26	--	28.80	43.50	14.70	
	186.170	18.21	9.93	2.38	--	30.52	43.50	12.98	
	291.900	15.07	13.49	2.74	--	31.30	46.00	14.70	
	468.440	14.15	17.22	3.19	--	34.56	46.00	11.44	
	1080.000	47.09	25.24	4.50	38.03	38.80	70.00	31.20	PK
	1185.000	46.05	25.74	4.51	37.80	38.50	70.00	31.50	
	1315.000	44.80	26.39	4.53	37.48	38.24	70.00	31.76	
	1470.000	47.91	26.92	4.55	37.04	42.34	70.00	27.66	
	1615.000	45.48	27.09	4.56	36.73	40.40	70.00	29.60	
	1750.000	43.30	27.22	4.57	36.50	38.59	70.00	31.41	
	1080.000	40.09	25.24	4.50	38.03	31.80	50.00	18.20	AV
	1185.000	38.05	25.74	4.51	37.80	30.50	50.00	19.50	
	1315.000	35.80	26.39	4.53	37.48	29.24	50.00	20.76	
	1470.000	38.91	26.92	4.55	37.04	33.34	50.00	16.66	
	1615.000	35.48	27.09	4.56	36.73	30.40	50.00	19.60	
	1750.000	33.30	27.22	4.57	36.50	28.59	50.00	21.41	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	DVI 640*480@60Hz	Adapter #1	:	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	132.820	13.47	10.77	2.12	26.36	43.50	17.14
	167.740	17.34	10.14	2.31	29.79	43.50	13.71
	191.990	18.61	9.87	2.40	30.88	43.50	12.62
	254.070	23.22	12.18	2.62	38.02	46.00	7.98
	291.900	**23.73**	**13.49**	**2.74**	**39.96**	**46.00**	**6.04**
	701.240	8.17	19.50	3.68	31.35	46.00	14.65
Vertical	**39.700**	**20.31**	**12.80**	**0.87**	**33.98**	**40.00**	**6.02**
	53.280	22.17	8.70	1.01	31.88	40.00	8.12
	88.200	16.05	10.93	1.70	28.68	43.50	14.82
	153.190	17.82	10.36	2.24	30.42	43.50	13.08
	186.170	20.52	9.93	2.38	32.83	43.50	10.67
	291.900	18.09	13.49	2.74	34.32	46.00	11.68

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃
Model No.	:	E2251TZ	Humidity :	60%RH
Serial No.	:	E11121473-01/01	Date of Test :	Dec 09, 2011
Test Mode	:	DVI 1280*1024@75Hz	Adapter #1 :	ADS-40SG-19-3 19032G

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	37.760	3.93	14.00	0.86	--	18.79	40.00	21.21	QP
	105.660	11.98	11.26	1.90	--	25.14	43.50	18.36	
	191.990	18.57	9.87	2.40	--	30.84	43.50	12.66	
	291.900	**23.97**	**13.49**	**2.74**	**--**	**40.20**	**46.00**	**5.80**	
	321.970	18.89	14.30	2.82	--	36.01	46.00	9.99	
	872.930	9.91	20.37	4.60	--	34.88	46.00	11.12	
	1055.000	48.59	25.13	4.49	38.09	40.12	70.00	29.88	PK
	1205.000	46.38	25.85	4.51	37.75	38.99	70.00	31.01	
	1320.000	45.71	26.41	4.53	37.46	39.19	70.00	30.81	
	1445.000	46.24	26.84	4.55	37.11	40.52	70.00	29.48	
	1580.000	42.01	27.06	4.56	36.80	36.83	70.00	33.17	
	1780.000	44.17	27.24	4.58	36.46	39.53	70.00	30.47	
	1055.000	38.59	25.13	4.49	38.09	30.12	50.00	19.88	AV
	1205.000	36.38	25.85	4.51	37.75	28.99	50.00	21.01	
	1320.000	35.71	26.41	4.53	37.46	29.19	50.00	20.81	
	1445.000	34.24	26.84	4.55	37.11	28.52	50.00	21.48	
	1580.000	30.01	27.06	4.56	36.80	24.83	50.00	25.17	
	1780.000	33.17	27.24	4.58	36.46	28.53	50.00	21.47	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	DVI 1280*1024@75Hz	Adapter #1	:	ADS-40SG-19-3 19032G

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
Vertical	**37.760**	**17.90**	**14.00**	**0.86**	**--**	**32.76**	**40.00**	**7.24**	QP
	53.280	22.64	8.70	1.01	--	32.35	40.00	7.65	
	156.100	17.86	10.31	2.26	--	30.43	43.50	13.07	
	186.170	19.80	9.93	2.38	--	32.11	43.50	11.39	
	291.900	18.27	13.49	2.74	--	34.50	46.00	11.50	
	467.470	9.30	17.22	3.17	--	29.69	46.00	16.31	
	1055.000	47.08	25.13	4.49	38.09	38.61	70.00	31.39	PK
	1195.000	42.43	25.80	4.51	37.77	34.97	70.00	35.03	
	1395.000	44.33	26.69	4.54	37.25	38.31	70.00	31.69	
	1565.000	43.67	27.05	4.56	36.83	38.45	70.00	31.55	
	1660.000	46.17	27.13	4.57	36.64	41.23	70.00	28.77	
	1840.000	44.99	27.29	4.64	36.38	40.54	70.00	29.46	
	1055.000	40.08	25.13	4.49	38.09	31.61	50.00	18.39	AV
	1195.000	36.43	25.80	4.51	37.77	28.97	50.00	21.03	
	1395.000	36.33	26.69	4.54	37.25	30.31	50.00	19.69	
	1565.000	33.67	27.05	4.56	36.83	28.45	50.00	21.55	
	1660.000	37.17	27.13	4.57	36.64	32.23	50.00	17.77	
	1840.000	34.99	27.29	4.64	36.38	30.54	50.00	19.46	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	DVI 1680*1050@60Hz	Adapter #1	:	ADS-40SG-19-3 19032G

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	105.660	12.02	11.26	1.90	--	25.18	43.50	18.32	QP
	167.740	17.49	10.14	2.31	--	29.94	43.50	13.56	
	264.740	22.39	12.62	2.65	--	37.66	46.00	8.34	
	291.900	**27.28**	**13.49**	**2.74**	**--**	**43.51**	**46.00**	**2.49**	
	321.970	21.37	14.30	2.82	--	38.49	46.00	7.51	
	701.240	8.45	19.50	3.68	--	31.63	46.00	14.37	
	1050.000	46.54	25.11	4.49	38.10	38.04	70.00	31.96	PK
	1135.000	44.77	25.49	4.51	37.91	36.86	70.00	33.14	
	1300.000	43.89	26.33	4.53	37.51	37.24	70.00	32.76	
	1485.000	43.16	26.96	4.55	37.01	37.66	70.00	32.34	
	1610.000	44.11	27.09	4.56	36.74	39.02	70.00	30.98	
	1770.000	43.65	27.24	4.58	36.48	38.99	70.00	31.01	
	1050.000	36.54	25.11	4.49	38.10	28.04	50.00	21.96	AV
	1135.000	36.77	25.49	4.51	37.91	28.86	50.00	21.14	
	1300.000	35.89	26.33	4.53	37.51	29.24	50.00	20.76	
	1485.000	33.16	26.96	4.55	37.01	27.66	50.00	22.34	
	1610.000	35.11	27.09	4.56	36.74	30.02	50.00	19.98	
	1770.000	32.65	27.24	4.58	36.48	27.99	50.00	22.01	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	DVI 1680*1050@60Hz	Adapter #1	:	ADS-40SG-19-3 19032G

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
Vertical	**39.700**	**19.15**	**12.80**	**0.87**	**--**	**32.82**	**40.00**	**7.18**	QP
	53.280	22.82	8.70	1.01	--	32.53	40.00	7.47	
	132.820	18.18	10.77	2.12	--	31.07	43.50	12.43	
	186.170	20.31	9.93	2.38	--	32.62	43.50	10.88	
	291.900	17.14	13.49	2.74	--	33.37	46.00	12.63	
	527.610	9.96	17.77	3.33	--	31.06	46.00	14.94	
	1050.000	45.32	25.11	4.49	38.10	36.82	70.00	33.18	PK
	1205.000	45.56	25.85	4.51	37.75	38.17	70.00	31.83	
	1305.000	46.20	26.34	4.53	37.50	39.57	70.00	30.43	
	1405.000	44.81	26.73	4.54	37.23	38.85	70.00	31.15	
	1520.000	44.69	27.02	4.55	36.92	39.34	70.00	30.66	
	1625.000	44.20	27.10	4.56	36.71	39.15	70.00	30.85	
	1050.000	38.32	25.11	4.49	38.10	29.82	50.00	20.18	AV
	1205.000	35.56	25.85	4.51	37.75	28.17	50.00	21.83	
	1305.000	36.20	26.34	4.53	37.50	29.57	50.00	20.43	
	1405.000	34.81	26.73	4.54	37.23	28.85	50.00	21.15	
	1520.000	34.69	27.02	4.55	36.92	29.34	50.00	20.66	
	1625.000	35.20	27.10	4.56	36.71	30.15	50.00	19.85	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	DVI 1920*1080@60Hz	Adapter #1	:	ADS-40SG-19-3 19032G

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	53.280	14.94	8.70	1.01	--	24.65	40.00	15.35	QP
	105.660	13.77	11.26	1.90	--	26.93	43.50	16.57	
	239.520	23.39	11.51	2.57	--	37.47	46.00	8.53	
	321.970	**23.26**	**14.30**	**2.82**	**--**	**40.38**	**46.00**	**5.62**	
	365.620	17.57	15.53	2.91	--	36.01	46.00	9.99	
	527.610	17.38	17.77	3.33	--	38.48	46.00	7.52	
	1055.000	48.59	25.13	4.49	38.09	40.12	70.00	29.88	PK
	1215.000	44.61	25.89	4.51	37.72	37.29	70.00	32.71	
	1360.000	46.63	26.56	4.54	37.36	40.37	70.00	29.63	
	1480.000	42.47	26.95	4.55	37.02	36.95	70.00	33.05	
	1655.000	46.08	27.13	4.57	36.65	41.13	70.00	28.87	
	1835.000	42.40	27.29	4.64	36.39	37.94	70.00	32.06	
	1055.000	43.59	25.13	4.49	38.09	35.12	50.00	14.88	AV
	1215.000	37.61	25.89	4.51	37.72	30.29	50.00	19.71	
	1360.000	38.63	26.56	4.54	37.36	32.37	50.00	17.63	
	1480.000	34.47	26.95	4.55	37.02	28.95	50.00	21.05	
	1655.000	37.08	27.13	4.57	36.65	32.13	50.00	17.87	
	1835.000	33.40	27.29	4.64	36.39	28.94	50.00	21.06	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2251TZ	Humidity :	60%RH	
Serial No.	:	E11121473-01/01	Date of Test :	Dec 09, 2011	
Test Mode	:	DVI 1920*1080@60Hz	Adapter #1 :	ADS-40SG-19-3 19032G	

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
Vertical	**40.670**	**20.48**	**12.33**	**0.87**	**--**	**33.68**	**40.00**	**6.32**	QP
	53.280	20.79	8.70	1.01	--	30.50	40.00	9.50	
	88.200	15.24	10.93	1.70	--	27.87	43.50	15.63	
	186.170	18.48	9.93	2.38	--	30.79	43.50	12.71	
	291.900	14.64	13.49	2.74	--	30.87	46.00	15.13	
	465.530	13.81	17.19	3.17	--	34.17	46.00	11.83	
	1065.000	46.79	25.17	4.50	38.07	38.39	70.00	31.61	PK
	1140.000	44.63	25.51	4.51	37.90	36.75	70.00	33.25	
	1265.000	43.48	26.16	4.52	37.60	36.56	70.00	33.44	
	1415.000	44.00	26.75	4.54	37.19	38.10	70.00	31.90	
	1555.000	44.86	27.04	4.56	36.84	39.62	70.00	30.38	
	1900.000	43.91	27.34	4.69	36.31	39.63	70.00	30.37	
	1065.000	40.79	25.17	4.50	38.07	32.39	50.00	17.61	AV
	1140.000	36.63	25.51	4.51	37.90	28.75	50.00	21.25	
	1265.000	35.48	26.16	4.52	37.60	28.56	50.00	21.44	
	1415.000	37.00	26.75	4.54	37.19	31.10	50.00	18.90	
	1555.000	36.86	27.04	4.56	36.84	31.62	50.00	18.38	
	1900.000	34.91	27.34	4.69	36.31	30.63	50.00	19.37	

TEST ENGINEER: RAVEN JIN

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: E2251TZ	Humidity	:	60%RH	
Serial No.	: E11121473-01/01	Date of Test	:	Dec 09, 2011	
Test Mode	: D-Sub 1920*1080@60Hz	Adapter #3	:	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	38.730	6.82	14.62	0.71	--	22.15	40.00	17.85	QP
	145.430	14.08	11.66	1.23	--	26.97	43.50	16.53	
	196.840	23.00	10.57	1.44	--	35.01	43.50	8.49	
	390.840	18.85	16.30	2.03	--	37.18	46.00	8.82	
	572.230	16.11	18.88	2.39	--	37.38	46.00	8.62	
	649.830	**20.18**	**19.45**	**2.57**	--	**42.20**	**46.00**	**3.80**	
	1085.000	46.42	25.26	4.50	38.02	38.16	70.00	31.84	PK
	1155.000	40.28	25.59	4.51	37.87	32.51	70.00	37.49	
	1260.000	43.08	26.14	4.52	37.62	36.12	70.00	33.88	
	1365.000	44.61	26.59	4.54	37.33	38.41	70.00	31.59	
	1475.000	43.11	26.93	4.55	37.03	37.56	70.00	32.44	
	1600.000	46.53	27.08	4.56	36.76	41.41	70.00	28.59	
	1085.000	34.42	25.26	4.50	38.02	26.16	50.00	23.84	AV
	1155.000	38.28	25.59	4.51	37.87	30.51	50.00	19.49	
	1260.000	35.08	26.14	4.52	37.62	28.12	50.00	21.88	
	1365.000	37.61	26.59	4.54	37.33	31.41	50.00	18.59	
	1475.000	40.11	26.93	4.55	37.03	34.56	50.00	15.44	
	1600.000	40.53	27.08	4.56	36.76	35.41	50.00	14.59	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #3	:	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
Vertical	**33.880**	**14.28**	**17.44**	**0.67**	--	**32.39**	**40.00**	**7.61**	QP
	145.430	14.71	11.66	1.23	--	27.60	43.50	15.90	
	324.880	10.53	14.58	1.84	--	26.95	46.00	19.05	
	366.590	10.30	15.77	1.98	--	28.05	46.00	17.95	
	572.230	16.38	18.88	2.39	--	37.65	46.00	8.35	
	649.830	8.94	19.45	2.57	--	30.96	46.00	15.04	
	1075.000	50.87	25.21	4.50	38.04	42.54	70.00	27.46	PK
	1160.000	44.25	25.61	4.51	37.85	36.52	70.00	33.48	
	1285.000	45.30	26.26	4.53	37.55	38.54	70.00	31.46	
	1415.000	44.34	26.75	4.54	37.19	38.44	70.00	31.56	
	1525.000	45.38	27.02	4.55	36.90	40.05	70.00	29.95	
	1680.000	47.08	27.15	4.57	36.62	42.18	70.00	27.82	
	1075.000	44.87	25.21	4.50	38.04	36.54	50.00	13.46	AV
	1160.000	41.25	25.61	4.51	37.85	33.52	50.00	16.48	
	1285.000	42.30	26.26	4.53	37.55	35.54	50.00	14.46	
	1415.000	38.34	26.75	4.54	37.19	32.44	50.00	17.56	
	1525.000	41.38	27.02	4.55	36.90	36.05	50.00	13.95	
	1680.000	39.08	27.15	4.57	36.62	34.18	50.00	15.82	

TEST ENGINEER: RAVEN JIN

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: E2251TZ	Humidity	:	60%RH	
Serial No.	: E11121473-01/01	Date of Test	:	Dec 09, 2011	
Test Mode	: D-Sub 1920*1080@60Hz	Adapter #4	:	LCAP26A-A	

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	36.790	6.24	15.80	0.69	--	22.73	40.00	17.27	QP
	56.190	13.96	7.46	0.82	--	22.24	40.00	17.76	
	135.730	14.58	12.28	1.19	--	28.05	43.50	15.45	
	218.180	17.17	11.52	1.51	--	30.20	46.00	15.80	
	371.440	15.60	15.88	1.99	--	33.47	46.00	12.53	
	565.440	**15.05**	**18.78**	**2.38**	**--**	**36.21**	**46.00**	**9.79**	
	1065.000	43.64	25.17	4.50	38.07	35.24	70.00	34.76	PK
	1160.000	45.72	25.61	4.51	37.85	37.99	70.00	32.01	
	1265.000	42.15	26.16	4.52	37.60	35.23	70.00	34.77	
	1375.000	43.88	26.62	4.54	37.31	37.73	70.00	32.27	
	1515.000	42.66	27.01	4.55	36.93	37.29	70.00	32.71	
	1635.000	44.00	27.11	4.57	36.69	38.99	70.00	31.01	
	1065.000	33.64	25.17	4.50	38.07	25.24	50.00	24.76	AV
	1160.000	38.72	25.61	4.51	37.85	30.99	50.00	19.01	
	1265.000	36.15	26.16	4.52	37.60	29.23	50.00	20.77	
	1375.000	36.88	26.62	4.54	37.31	30.73	50.00	19.27	
	1515.000	36.66	27.01	4.55	36.93	31.29	50.00	18.71	
	1635.000	32.00	27.11	4.57	36.69	26.99	50.00	23.01	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #4	:	LCAP26A-A

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
Vertical	**30.970**	**14.31**	**19.03**	**0.64**	--	**33.98**	**40.00**	**6.02**	QP
	43.580	16.66	11.88	0.74	--	29.28	40.00	10.72	
	106.630	20.25	12.02	1.07	--	33.34	43.50	10.16	
	158.040	21.40	10.64	1.28	--	33.32	43.50	10.18	
	366.590	15.75	15.77	1.98	--	33.50	46.00	12.50	
	562.530	18.70	18.75	2.38	--	39.83	46.00	6.17	
	1050.000	45.32	25.11	4.49	38.10	36.82	70.00	33.18	PK
	1205.000	45.56	25.85	4.51	37.75	38.17	70.00	31.83	
	1305.000	46.20	26.34	4.53	37.50	39.57	70.00	30.43	
	1405.000	44.81	26.73	4.54	37.23	38.85	70.00	31.15	
	1520.000	44.69	27.02	4.55	36.92	39.34	70.00	30.66	
	1625.000	44.20	27.10	4.56	36.71	39.15	70.00	30.85	
	1050.000	34.32	25.11	4.49	38.10	25.82	50.00	24.18	AV
	1205.000	41.56	25.85	4.51	37.75	34.17	50.00	15.83	
	1305.000	40.20	26.34	4.53	37.50	33.57	50.00	16.43	
	1405.000	36.81	26.73	4.54	37.23	30.85	50.00	19.15	
	1520.000	36.69	27.02	4.55	36.92	31.34	50.00	18.66	
	1625.000	37.20	27.10	4.56	36.71	32.15	50.00	17.85	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #2	:	ADS-40FSG-19 19032GPCU-1

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	**32.910**	**15.20**	**16.79**	**0.66**	--	**32.65**	**40.00**	**7.35**	QP
	106.630	17.03	11.24	1.07	--	29.34	43.50	14.16	
	167.740	18.34	10.14	1.32	--	29.80	43.50	13.70	
	376.290	13.78	15.79	1.99	--	31.56	46.00	14.44	
	557.680	11.15	17.96	2.38	--	31.49	46.00	14.51	
	851.590	10.43	20.44	2.97	--	33.84	46.00	12.16	
	1080.000	52.01	25.24	4.50	38.03	43.72	70.00	26.28	PK
	1170.000	51.02	25.66	4.51	37.83	43.36	70.00	26.64	
	1275.000	48.63	26.21	4.53	37.57	41.80	70.00	28.20	
	1315.000	50.96	26.39	4.53	37.48	44.40	70.00	25.60	
	1465.000	46.64	26.90	4.55	37.06	41.03	70.00	28.97	
	1755.000	47.40	27.22	4.58	36.50	42.70	70.00	27.30	
	1080.000	47.01	25.24	4.50	38.03	38.72	50.00	11.28	AV
	1170.000	47.02	25.66	4.51	37.83	39.36	50.00	10.64	
	1275.000	43.63	26.21	4.53	37.57	36.80	50.00	13.20	
	1315.000	44.96	26.39	4.53	37.48	38.40	50.00	11.60	
	1465.000	39.64	26.90	4.55	37.06	34.03	50.00	15.97	
	1755.000	39.40	27.22	4.58	36.50	34.70	50.00	15.30	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	E2251TZ	Humidity	:	60%RH
Serial No.	:	E11121473-01/01	Date of Test	:	Dec 09, 2011
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #2	:	ADS-40FSG-19 19032GPCU-1

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
Vertical	36.790	7.47	15.80	0.69	--	23.96	40.00	16.04	QP
	96.930	16.29	10.87	1.03	--	28.19	43.50	15.31	
	193.930	17.96	10.44	1.43	--	29.83	43.50	13.67	
	218.180	17.48	11.52	1.51	--	30.51	46.00	15.49	
	368.530	15.48	15.81	1.98	--	33.27	46.00	12.73	
	565.440	**15.50**	**18.78**	**2.38**	--	**36.66**	**46.00**	**9.34**	
	1080.000	47.38	25.24	4.50	38.03	39.09	70.00	30.91	PK
	1220.000	43.26	25.93	4.51	37.71	35.99	70.00	34.01	
	1385.000	44.85	26.66	4.54	37.28	38.77	70.00	31.23	
	1535.000	43.75	27.03	4.55	36.88	38.45	70.00	31.55	
	1700.000	43.42	27.17	4.57	36.58	38.58	70.00	31.42	
	1895.000	42.12	27.33	4.69	36.32	37.82	70.00	32.18	
	1080.000	37.38	25.24	4.50	38.03	29.09	50.00	20.91	AV
	1220.000	40.26	25.93	4.51	37.71	32.99	50.00	17.01	
	1385.000	39.85	26.66	4.54	37.28	33.77	50.00	16.23	
	1535.000	41.75	27.03	4.55	36.88	36.45	50.00	13.55	
	1700.000	39.42	27.17	4.57	36.58	34.58	50.00	15.42	
	1895.000	32.12	27.33	4.69	36.32	27.82	50.00	22.18	

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.

6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

Name	Specifications (mm)	Manufacturer	Location
EMI Sponge	13*10*10	EXPANElactronics SUZHOU Co., Ltd.	See Appendix Figure 25
SPONGE	108*10*1	EXPANElactronics SUZHOU Co., Ltd.	See Appendix Figure 26
SPONGE	140*10*1	EXPANElactronics SUZHOU Co., Ltd.	See Appendix Figure 26
DVI EMI sponge	36*21*1T	EXPANElactronics SUZHOU Co., Ltd.	See Appendix Figure 26

Note: We had required the applicant and manufacturer that all electrical and mechanical devices employed for spurious radiation suppression, including any modifications made during certification testing, must be incorporated in each unit marked

TEST ENGINEER: Raven Jin

(RAVEN JIN)