

FCC EVALUATION REPORT FOR CERTIFICATION

Test Report No.: 07CA59143-A-1-FCC

Applicant: AMPRONIX INC.

15 Whatney Irvine CA 92618 USA

Manufacturer: D&T Inc

Daedeok Valley, 60-1 Jang-Dong, Yuseong-Gu Daejeon 305-343 Korea

Product Type: 15" LCD Monitor

Model Name: AMVX1508

Multi-listing Model Name: NONE

FCC ID: VYGAMVX1508

Trade Name: MEDVIX

Rule Part(s): FCC Part 15 Subpart B Class B

FCC Classification: Class B Digital Device

FCC Procedure: Certification

Date of Receipt: 2007-02-12

Date of Test: 2007-03-09 ~ 2007-03-15

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the vest of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Test Engineer: Jea Woon, Choi

Project Engineer

Conformity Assessment Services - 3014ASEO

UL Korea Ltd. March 20, 2007

Reviewed by Kyung Yong, Kim

Senior Project Engineer

Conformity Assessment Services - 3014ASEO

Kayonng Gim

UL Korea Ltd. January 21, 2008

Test Report Details

Tests Performed By: UL Korea Ltd.

33rd FL. Gangnam Finance Center 737 Yeoksam-dong,

Kangnam-ku, Seoul, 135-984, Korea

Test Site: ESTECH CO., LTD. (FCC Registration Number: 94696)

97-1 Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea

Tests Performed For: AMPRONIX INC.

15 Whatney Irvine CA 92618 USA

Applicant Contact: Brian Yamada

Title: General Manager

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E-mail: byamada@ampronix.com

Test Report Date: January 21, 2008

Product Type: 15" LCD Monitor

FCC Rule Part(s): Part 15 Subpart B Class B

Model Name: AMVX1508

Multi-listing Model name: N/A

Sample Serial Number: N/A

Sample Tag Number: N/A

Sample Receive Date: March 9, 2007

Testing Start Date: March 9, 2007

Date Testing Complete: March 15, 2007

Overall Results: PASS

UL Korea Ltd. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL Korea Ltd. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL Korea Ltd. issued reports. This report shall not be used to claim, constitute or imply product certification, approval, or any agency of the US government.

Project Number: Model Number: 07CA59143 AMVX1508 File Number

MC15562

Date of Issue : January 21, 2008

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1 Description of Test Facility

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Nose Emissions From Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ASNI C63.4-2003) was used in determining radiated and conducted emissions emanating from AMPRONIX INC.15" LCD Monitor (Model No.: AMVX1508)

- Icheon EMC Laboratory-
- 97-1 Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea

1.1 Official Qualification(s)

MIC : Granted Accreditation from Ministry of Information & Communication for EMC, Safety and Telecommunication (reference no : KR0019)

KOLAS: Accredited Lab By Korea Laboratory Accreditation Schema base on CENELEC requirements (reference no : 141)

FCC: Filed Laboratory at Federal Communications Commission (reference no: 94696) VCCI: Granted Accreditation from Voluntary Control Council for Interference from ITE (reference no: C-2331, R-2159)

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2 **Equipment Description**

The Equipment Under Test (EUT) is the AMPRONIX INC. 15" LCD Monitor (Model No.: AMVX1508)

MODEL	AMVX1508
LCD Panel	15 inch Color TFT Panel - NEC: NL10276BC30-17 - SHARP: LQ150X1LW72
Туре	Active Matrix
Max Resolution	1024 * 768 / 75Hz (Recommended)
Pixel Pitch	0.297mm
Display Color	16 million colors
Response Time	25ms
Video	0.7Vp-p analog RGB&TMDS Digital 165MHz
Input Impedance(Analog)	Video-75 Ohm Sync-1k Ohm
Digital	3 channel TMDS receiver
Horizontal	31.47~79.8kHz
Vertical	50~85Hz
Signal Input Connector	DVI-I,C-Video,S-Video,Component,RGB
Power Source(Monitor input)	DC 12V, 28W
AC/DC Adapter	Ault Inc. Model No.: MW160KA1203F54 AC100~240V, 50/60Hz, 37W
X-tal lists	28.322MHz, 27MHz

2.1 Equipment Used During Test

Use*	Product Type	Manufacturer	Model	Comments
EUT	15" LCD Monitor	D&T Inc	AMVX1508	N/A
AE	Personal Computer	Dell Asia Pacific Sdn.	DCSM	N/A
AE	Printer	Hewlett Packad	C6414J	N/A
AE	Keyboard	Dongguan Lite Power2nd Plant	SEM-DT35US	N/A
AE	Mouse	Microsoft	Wheel Mouse Optical	N/A
AE	Camcoder	SONY	DCR-TRV18	N/A
AE	Adapter	SONY	AC-L10A	N/A
AE	Adapter	YOKOGAWA	C6409-60152	N/A

Note:*Use = EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, or SIM - Simulator (Not Subjected to Test)

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2.2 Input/Output Ports

Port	Name	Type*	Cable	Cable	Comments
#			Max. >3m	Shielded	
1	15"LCD Monitor	DC	2.0	Yes	N/A
2	15"LCD Monitor(RGB)	I/O	2.0	Yes	N/A
3	15"LCD Monitor(DVI)	I/O	2.0	Yes	N/A
4	15"LCD Monitor(S-Video)	I/O	2.0	No	N/A
5	15"LCD Monitor(C-Video)	I/O	2.0	No	N/A
6	PC(Pranter)	I/O	2.0	Yes	N/A
7	PC(Mouse)	I/O	2.0	Yes	N/A
8	PC(Keyboard)	I/O	2.0	Yes	N/A
9	PC	AC	2.0	No	N/A
10	Camcoder	DC	2.0	Yes	N/A
11	Camcoder(C-Video)	I/O	2.0	Yes	N/A

Note:*AC= AC Power Port, DC = DC Power Port, N/E = Non-Electrical, TP= Telecommunication Ports I/O = Signal Input or Output Port (Not Involved in Process Control)

2.3 Power Interface

Mode #	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	AC 100~240 V	1.2	37	50/60 Hz	Single	External AC Adapter
Rated	DC 12V	3.5	28	-	-	Monitor

2.4 EUT Operation Modes & Configurations

Emission on the EUT have been performed under continuous displaying "H" character.

Mode	Description
1024*768(75Hz)	Displaying "H" character at 1024*768(75Hz)

Note: The worst operating condition of the test sample was found out by preliminary investigation in varying resolution mode which recommended manufacturer. And, the final measurement was performed at the resolution above listed.

2.5 Result Summary

Clause	Requirement – Test	Result	Verdict
15.107	Conducted emission	Met relevant limit	Complied
15.109	Radiated emission	Met relevant limit	Complied

3 Test Conditions and Results - Conducted Emission

1.5	TEST: Limits of conducted emission									
:	Measurements were made on a ground plane that extends 1-meter minimum beyond all sides of the system under test. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.									
Parameters rec	quired p	orior to the test	Laboratory Ambient Temp	perature	10 to 40 °C					
			Relative Humidity		10 to 90 %					
Parameters recorded during the test		during the test	Laboratory Ambient Temp	perature	22°C					
			Relative Humidity		39%					
			Frequency range on each	side of line	Measurement Point					
Fully configured sample scanned over the following frequency range			150kHz to 3	Mains						
			Limits - Class A							
			Limit (
Frequency (M	Hz)	Quasi-Peak	Result	Average	Result					
0.15 to 0.5	50	79	-	66	-					
0.50 to 30	0	73	-	60	-					
			Limits - Class B							
- 0-	\		Limit (dBμV)						
Frequency (M	Hz)	Quasi-Peak	Result	Average	Result					
0.15 to 0.5	50	66 to 56	Pass	56 to 46	Pass					
0.50 to 5	5	56	Pass	46	Pass					
5 to 30		60	Pass	50 Pass						
Supplementary	y inforn	nation:								

Test Equipment Used										
Description	Manufacturer Model		Identifier	Cal. Date	Cal. Due					
EMI Test Receiver	Rohde&Schwarz	ESP17	100185	2006.08.24	2007.08.24					
Pulse Limiter	Rohde&Schwarz	ESH2Z2	NONE	2006.06.15	2007.06.15					
LISN	Schwarzbeck	NNLA8120A	8120161	2007.02.27	2008.02.28					
LISN	Schwarzbeck	ESH3-Z5	838979/010	2007.02.27	2008.02.28					

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Figure 1 : Front for NEC Panel



Figure 2: Rear for NEC Panel



Table 1 :Test mode – DVI(NEC Panel)

Test Frequency	Line	Cable loss	Transducer	Level (dBuV)	Limit	(dBuV)	Margi	in (dB)
(MHz)	Line	(dB)	Factor(dB)	Q.P	AV	Q.P	AV	Q.P	AV
0.15	N	0.0	0.17	41.76	31.31	66.00	56.00	24.07	24.52
0.18	Н	0.1	0.14	42.75	-	64.35	54.35	21.36	-
0.20	N	0.1	0.12	35.86	27.26	63.45	53.45	27.37	25.97
0.25	Н	0.1	0.12	38.94	-	61.92	51.92	22.76	-
0.31	N	0.1	0.13	32.32	-	59.89	49.89	27.34	-
0.43	Н	0.2	0.14	34.53	-	57.23	47.23	22.36	_
0.68	N	0.2	0.16	34.77	-	56.00	46.00	20.87	-
1.36	N	0.2	0.26	34.06	-	56.00	46.00	21.48	-
1.60	Н	0.3	0.27	34.10	31.68	56.00	46.00	21.33	13.75
2.16	Н	0.3	0.29	35.62	33.69	56.00	46.00	19.79	11.72
4.69	N	0.3	0.37	39.94	-	56.00	46.00	15.39	-
4.93	Н	0.3	0.38	41.56	39.94	56.00	46.00	13.76	5.38
5.36	Н	0.3	0.39	38.98	35.22	60.00	46.00	20.33	10.09
6.91	N	0.4	0.46	36.79	-	60.00	50.00	22.35	-
7.15	N	0.4	0.47	35.07	-	60.00	50.00	24.06	-
8.02	Н	0.5	0.52	31.77	-	60.00	50.00	27.21	_
19.80	Н	0.8	0.93	31.60	-	60.00	50.00	26.67	-
23.85	Н	0.9	0.93	32.57	30.50	60.00	50.00	25.6	17.67

Supplementary information:

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Table 2 : Test mode- RGB(NEC Panel)

Test Frequency	Line	Cable loss	Transducer	Level (dBuV)	Limit	(dBuV)	Margi	n (dB)
(MHz)	Line	(dB)	Factor(dB)	Q.P	AV	Q.P	AV	Q.P	AV
0.15	N	0.0	0.17	41.75	31.20	66.00	56.00	24.08	24.63
0.18	Н	0.1	0.14	43.02	-	64.30	54.30	21.04	-
0.20	N	0.1	0.12	35.79	-	63.57	53.57	27.56	-
0.25	Н	0.1	0.12	37.96	-	61.82	51.82	23.64	-
0.31	Н	0.1	0.13	34.75	30.19	60.05	50.05	25.07	19.63
0.43	N	0.2	0.14	30.89	-	57.31	47.31	26.08	-
0.55	N	0.2	0.15	31.70	27.23	56.00	46.00	23.95	18.42
0.74	N	0.2	0.17	33.46	-	56.00	46.00	22.17	-
1.04	N	0.2	0.25	31.27	-	56.00	46.00	24.28	-
1.11	Н	0.2	0.25	32.68	-	56.00	46.00	22.87	-
2.64	Н	0.3	0.31	35.72	33.84	56.00	46.00	19.67	11.55
4.91	Н	0.3	0.38	39.34	36.77	56.00	46.00	15.98	8.55
5.46	N	0.3	0.40	33.24	-	60.00	50.00	26.06	-
6.81	Н	0.4	0.45	31.04	-	60.00	50.00	28.11	-
7.43	N	0.4	0.49	29.21	-	60.00	50.00	29.90	-
7.77	Н	0.5	0.51	32.12	-	60.00	50.00	26.87	-
8.04	Н	0.5	0.53	32.76	-	60.00	50.00	26.21	-
22.04	Н	0.8	0.93	30.89	-	60.00	50.00	27.38	-

Supplementary information:

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Figure 3: Test mode DVI-HOT Line(NEC Panel)

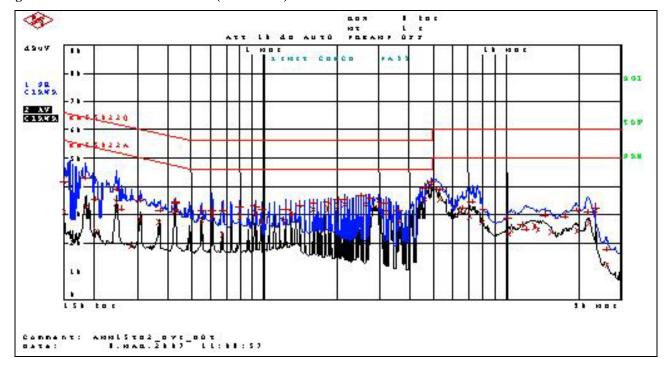


Figure 4: Test mode DVI-NEUTRAL Line(NEC Panel)

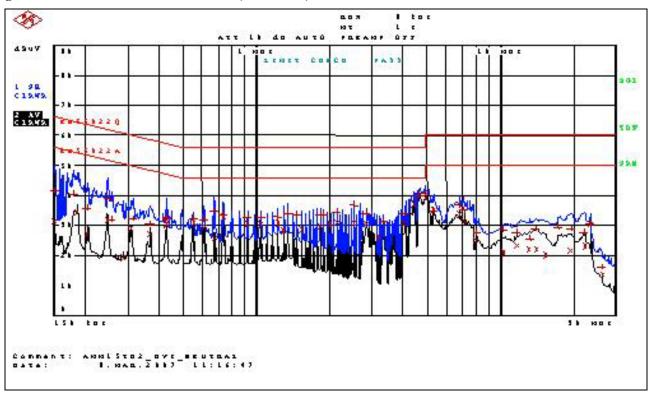


Figure 5: Test mode RGB-HOT Line(NEC Panel)

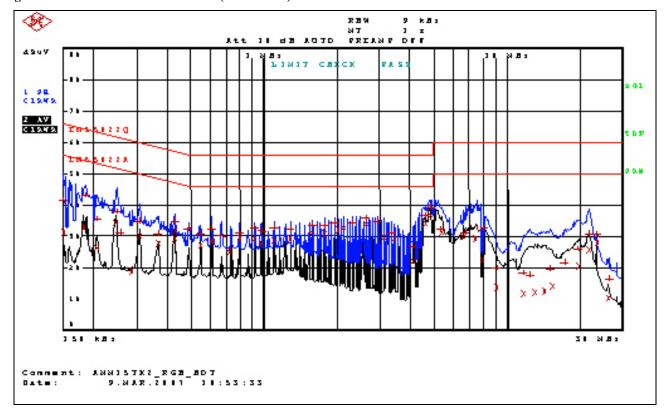


Figure 6: Test mode RGB-NEUTRAL Line(NEC Panel)

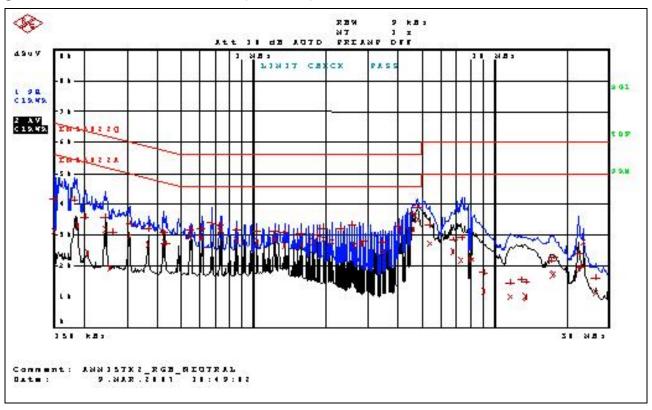


Figure 7: Front for Sharp Panel



Figure 8 : Rear for Sharp Panel



Table 3: Test mode – DVI(Sharp Panel)

Test Frequency	Line	Cable loss	Transducer	Level (dBuV)	Limit	Limit (dBuV)		in (dB)
(MHz)	Line	(dB)	Factor(dB)	Q.P	AV	Q.P	AV	Q.P	AV
0.15	N	0.0	0.17	41.71	-	66.00	56.00	24.12	-
0.18	N	0.1	0.14	43.17	-	64.53	54.53	21.16	-
0.20	Н	0.1	0.12	35.55	-	63.53	53.53	27.76	-
0.21	N	0.1	0.12	34.94	-	63.24	53.24	28.08	-
0.25	N	0.1	0.12	39.20	-	61.92	51.92	22.48	-
0.29	Н	0.1	0.13	29.20	-	60.55	50.55	31.09	-
0.61	Н	0.2	0.16	32.75	29.57	56.00	46.00	22.89	16.07
0.67	N	0.2	0.16	33.33	-	56.00	46.00	21.31	-
0.79	Н	0.2	0.19	32.09	-	56.00	46.00	23.52	-
1.22	Н	0.2	0.26	31.42	27.31	56.00	46.00	24.10	18.21
1.89	Н	0.3	0.29	33.03	-	56.00	46.00	22.40	-
4.68	N	0.3	0.37	35.29	31.59	56.00	46.00	20.04	13.74
5.49	Н	0.3	0.40	34.28	-	60.00	50.00	25.00	-
6.83	Н	0.4	0.45	32.78	-	60.00	50.00	26.38	-
7.59	N	0.4	0.50	27.38	-	60.00	50.00	31.68	-
8.05	Н	0.5	0.53	20.58	-	60.00	50.00	38.42	-
9.22	N	0.5	0.60	16.38	-	60.00	50.00	42.47	-
23.85	Н	0.9	0.93	30.47	28.74	60.00	50.00	27.72	19.45

Supplementary information:

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Table 4: Test mode- RGB(Sharp Panel)

Test Frequency	Line	Cable loss	Transducer	Level (dBuV)	Limit	(dBuV)	Margi	in (dB)
(MHz)	Line	(dB)	Factor(dB)	Q.P	AV	Q.P	AV	Margi Q.P 25.00 20.36 28.37 22.53 26.85 25.72 24.87 23.64 21.56 23.08 24.76 22.81 25.84 25.13 27.37 28.98 24.57 25.61	AV
0.15	N	0.0	0.17	40.83	-	66.00	56.00	25.00	-
0.18	Н	0.1	0.14	43.79	-	64.35	54.35	20.36	_
0.20	Н	0.1	0.12	34.94	-	63.53	53.53	28.37	-
0.25	Н	0.1	0.12	39.15	33.92	61.92	51.92	22.53	17.76
0.30	Н	0.1	0.13	33.05	-	60.16	50.16	26.85	-
0.31	N	0.1	0.13	34.03	-	60.02	50.02	25.72	-
0.55	Н	0.2	0.15	30.78	-	56.00	46.00	24.87	-
0.61	N	0.2	0.16	32.00	-	56.00	46.00	23.64	-
0.67	N	0.2	0.16	34.08	-	56.00	46.00	21.56	-
0.74	N	0.2	0.17	32.55	27.73	56.00	46.00	23.08	17.90
1.10	Н	0.2	0.25	30.78	27.01	56.00	46.00	24.76	18.52
2.02	Н	0.3	0.29	32.60	28.86	56.00	46.00	22.81	17.05
5.41	N	0.3	0.40	33.44	-	60.00	50.00	25.84	-
6.86	N	0.4	0.45	34.02	-	60.00	50.00	25.13	-
6.97	Н	0.4	0.46	31.77	18.49	60.00	50.00	27.37	30.65
7.22	Н	0.4	0.47	30.13	-	60.00	50.00	28.98	-
7.41	N	0.4	0.49	34.52	-	60.00	50.00	24.57	-
8.09	N	0.5	0.53	33.39	-	60.00	50.00	25.61	-

Supplementary information:

Figure 9: Test mode DVI-HOT Line(Sharp Panel)

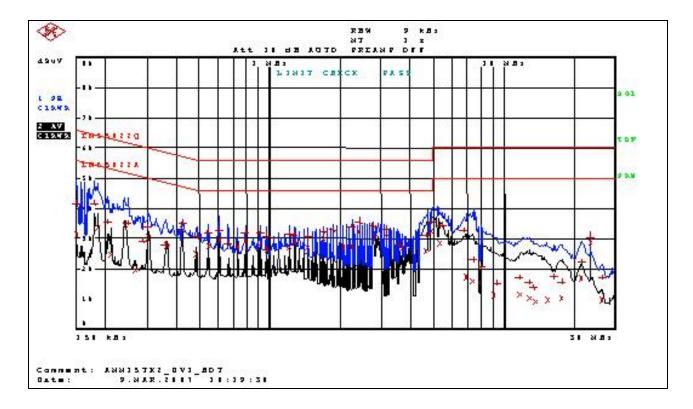


Figure 10: Test mode DVI-NEUTRAL Line(Sharp Panel)

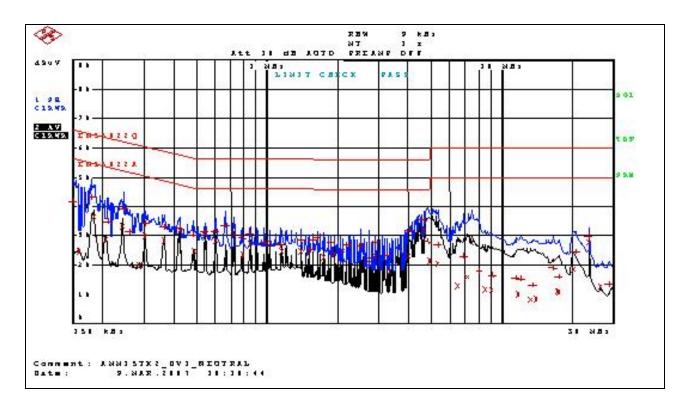


Figure 11: Test mode RGB-HOT Line(Sharp Panel)

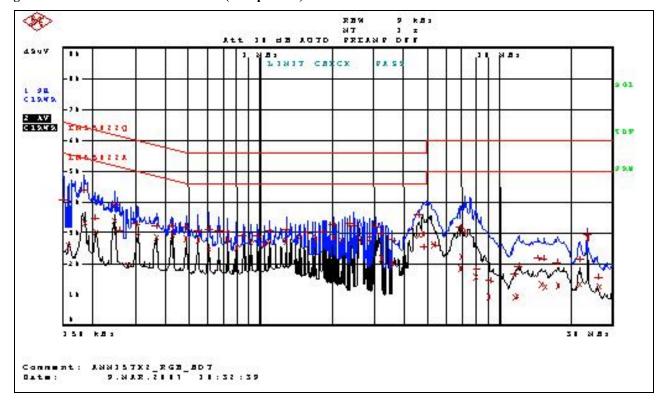
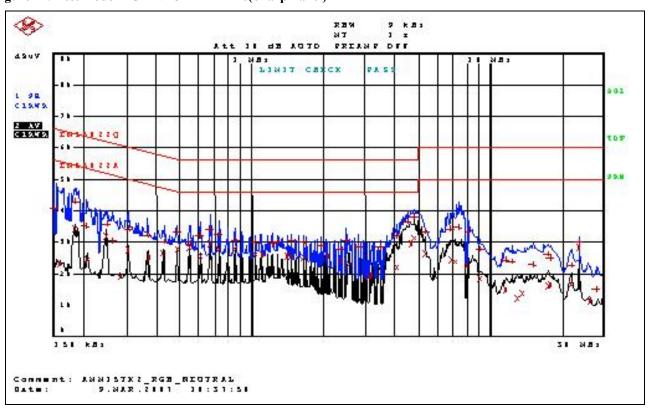


Figure 12: Test mode RGB-NEUTRAL Line(Sharp Panel)



4 Test Conditions and Results – Radiated Emission

	TEST: Limits for radiate	ed disturbance						
Method	Preliminary (peak) measure of 3-meter. The EUT was 1, 2, 3 and 4 meter height (quasi-peak or average as adjusting the receive anterest.	e at 10-meter open site that complies to trements were performed at an antennal so rotated 360° about its azimuth with the sin both horizontal and vertical polarity noted) were then performed by rotating nna height from 1 to 4-meters. All free trical antenna polarity, where applicable	to EUT some received ties. Find the EU quencies	separation distance e antenna located at al measurements T 360° and				
Parameters	required prior to the test	Laboratory Ambient Temperature		10 to 40 °C				
		Relative Humidity		10 to 90 %				
Parameters	recorded during the test	Laboratory Ambient Temperature		14°C				
		Relative Humidity		55%				
		Frequency range		Measurement Point				
	gured sample scanned over ng frequency range	30MHz – 1GHz	(3 meter measurement distance)					
		Limits - Class A(10m)						
_		Limit (c	Limit (dBµV/m)					
Fr	requency (MHz)	Quasi-Peak	Quasi-Peak					
	30 to 88	39.5						
	88 to 216	43.5						
	216 to 960	46.5						
	Above 960	49.5						
		Limits - Class B(3m)						
	42.552	Limit (c	lBμV/m)					
Fr	requency (MHz)	Quasi-Peak		Results				
	30 to 88	40		PASS				
	88 to 216	43.5		PASS				
	216 to 960	46	46					
	Above 960	54	54 PA					

Test Equipment Used										
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due					
Test Receiver	Rohde&Schwarz	ESVS10	838562/0052	2007.01.23	2008.01.23					
Spectrum Analyzer	ADVANTEST	R3261C	61720116	2006.04.19	2007.04.19					
Logbicon Antenna	Schwarzbeck	VULB 9160	3142	2006.05.15	2007.05.15					
Amplifier	НР	8447F	2805A02972	2006.06.26	2007.06.26					

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Figure 13 : Front for NEC Panel



Figure 14: Rear for NEC Panel



Table 5 : Test mode- DVI(NEC Panel)

Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Deg.)	Antenna Height (cm)	Gain/Loss Factor (dB)	Transducer Factor (dB/m)	Level dBuV/m	Limit dBuV/m	Margin (dB)
81.00	26.75	QP	V	170	100	1.4	8.79	36.97	40.0	3.03
111.67	17.80	QP	V	310	100	1.6	11.10	30.55	43.5	12.95
135.01	11.30	QP	Н	180	230	1.8	12.69	25.80	43.5	17.70
162.03	12.10	QP	V	90	100	2.0	13.90	27.96	43.5	15.54
180.22	7.60	QP	V	90	100	2.1	12.44	22.10	43.5	21.40
189.02	15.00	QP	Н	180	200	2.1	12.57	29.68	43.5	13.82
195.46	14.20	QP	Н	240	170	2.2	11.21	27.57	43.5	15.93
216.02	23.50	QP	Н	240	160	2.3	10.72	36.50	46.0	9.50
221.20	19.30	QP	Н	340	150	2.3	10.79	32.42	46.0	13.58
233.99	16.30	QP	Н	110	140	2.5	11.33	30.08	46.0	15.92
252.01	26.10	QP	Н	150	120	2.6	11.97	40.64	46.0	5.36
270.02	23.70	QP	Н	140	100	2.8	12.47	38.94	46.0	7.06
351.00	11.00	QP	Н	130	100	3.1	14.32	28.46	46.0	17.54
428.73	14.00	QP	Н	120	100	3.5	15.92	33.46	46.0	12.54
472.50	22.30	QP	V	280	120	3.7	16.75	42.79	46.0	3.21
568.15	8.00	QP	V	286	100	4.2	18.35	30.51	46.0	15.49
648.04	6.00	QP	Н	140	120	4.5	19.60	30.12	46.0	15.88
701.98	18.10	QP	Н	170	100	4.7	20.18	42.93	46.0	3.07

Supplementary information:

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Table 6 : Test mode- RGB(NEC Panel)

Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Deg.)	Antenna Height (cm)	Gain/Loss Factor (dB)	Transducer Factor (dB/m)	Level dBuV/m	Limit 1 dBuV/m	Margin (dB)
35.75	19.40	QP	Н	40	400	1.0	12.41	32.84	40.0	7.16
59.64	14.60	QP	V	45	100	1.2	12.45	28.28	40.0	11.72
81.00	24.10	QP	V	180	100	1.4	8.79	34.32	40.0	5.68
110.31	22.00	QP	V	330	100	1.6	11.07	34.72	43.5	8.78
135.00	12.00	QP	Н	175	220	1.8	12.69	26.50	43.5	17.00
170.09	10.20	QP	Н	180	180	2.0	13.33	25.53	43.5	17.97
180.17	9.40	QP	Н	90	170	2.1	12.44	23.90	43.5	19.60
189.01	16.60	QP	Н	180	180	2.1	12.57	31.28	43.5	12.22
216.00	25.80	QP	Н	170	140	2.3	10.72	38.80	43.5	4.70
221.17	21.00	QP	Н	350	150	2.3	10.79	34.12	46.0	11.88
252.00	22.20	QP	Н	160	100	2.6	11.97	36.74	46.0	9.26
270.01	23.60	QP	Н	150	120	2.8	12.47	38.84	46.0	7.16
288.00	17.40	QP	Н	170	100	2.8	12.98	33.18	46.0	12.82
351.02	11.20	QP	Н	140	100	3.1	14.32	28.66	46.0	17.34
432.01	10.00	QP	V	120	130	3.5	16.01	29.55	46.0	16.45
454.51	12.40	QP	Н	120	100	3.6	16.43	32.44	46.0	13.56
537.99	7.80	QP	V	100	150	4.1	17.64	29.50	46.0	16.50
570.45	13.70	QP	V	100	140	4.2	18.41	36.27	46.0	9.73
648.01	7.40	QP	Н	150	120	4.5	19.60	31.52	46.0	14.48
702.00	15.40	QP	V	180	100	4.7	20.18	40.23	46.0	5.77
973.90	12.10	QP	V	130	100	5.9	23.44	41.39	54.0	12.61

Supplementary information:

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Figure 15: Front for Sharp Panel



Figure 16: Rear for Sharp Panel



Table 7: Test mode- DVI(Sharp Panel)

Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Deg.)	Antenna Height (cm)	Gain/Loss Factor (dB)	Transducer Factor (dB/m)	Level dBuV/m	Limit dBuV/m	Margin (dB)
59.62	14.20	QP	V	60	100	1.2	12.45	27.88	40.0	12.12
81.14	24.20	QP	V	180	100	1.4	8.79	34.42	40.0	5.58
110.32	19.00	QP	V	330	100	1.6	11.07	31.72	43.5	11.78
135.00	10.10	QP	Н	190	240	1.8	12.69	24.60	43.5	18.90
162.00	12.10	QP	Н	100	220	2.0	13.90	27.96	43.5	15.54
189.02	13.00	QP	Н	190	180	2.1	12.57	27.68	43.5	15.82
195.43	13.40	QP	Н	250	170	2.2	11.21	26.77	43.5	16.73
216.01	22.60	QP	Н	250	160	2.3	10.72	35.60	46.0	10.40
221.20	17.40	QP	Н	350	150	2.3	10.79	30.52	46.0	15.48
234.00	17.50	QP	Н	120	140	2.5	11.33	31.28	46.0	14.72
252.01	26.30	QP	Н	160	120	2.6	11.97	40.84	46.0	5.16
270.00	26.20	QP	Н	150	100	2.8	12.47	41.44	46.0	4.56
351.02	14.90	QP	V	140	100	3.1	14.32	32.36	46.0	13.64
428.75	12.70	QP	V	130	100	3.5	15.92	32.16	46.0	13.84
472.51	22.50	QP	V	290	100	3.7	16.75	42.99	46.0	3.01
540.26	9.00	QP	Н	270	100	4.1	17.69	30.75	46.0	15.25
648.06	4.80	QP	Н	150	130	4.5	19.60	28.92	46.0	17.08
701.99	6.40	QP	V	180	100	4.7	20.18	31.23	46.0	14.77

Supplementary information: Ferrite core was connected to S-Video, DVI and adapter ports for radiated emission

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Table 8 : Test mode- RGB(Sharp Panel)

Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Deg.)	Antenna Height (cm)	Gain/Loss Factor (dB)	Transducer Factor (dB/m)	Level dBuV/m	Limit 1 dBuV/m	Margin (dB)
81.00	24.40	QP	V	175	100	1.4	8.79	34.62	40.0	5.38
110.32	16.40	QP	V	320	100	1.6	11.07	29.12	43.5	14.38
135.00	11.40	QP	Н	190	260	1.8	12.69	25.90	43.5	17.60
162.82	15.80	QP	Н	100	240	2.0	13.90	31.67	43.5	11.83
189.02	12.30	QP	Н	180	180	2.1	12.57	26.98	43.5	16.52
195.44	11.80	QP	Н	240	160	2.2	11.21	25.17	43.5	18.33
202.54	12.40	QP	Н	350	180	2.2	10.44	25.01	43.5	18.49
216.01	22.40	QP	Н	250	160	2.3	10.72	35.40	35.40	10.60
221.19	17.20	QP	Н	330	140	2.3	10.79	30.32	30.32	15.68
234.01	19.50	QP	Н	120	130	2.5	11.33	33.28	33.28	12.72
252.01	23.00	QP	Н	150	100	2.6	11.97	37.54	37.54	8.46
270.00	22.60	QP	Н	145	160	2.8	12.47	37.84	37.84	8.16
288.02	18.20	QP	Н	160	120	2.8	12.98	33.98	33.98	12.02
351.03	13.60	QP	Н	130	100	3.1	14.32	31.06	31.06	14.94
432.04	9.10	QP	Н	110	100	3.5	16.01	28.65	28.65	17.35
540.01	5.20	QP	Н	280	100	4.1	17.68	26.94	26.94	19.06
621.02	4.70	QP	Н	140	100	4.4	19.22	28.33	28.33	17.67
702.01	7.10	QP	V	160	100	4.7	20.18	31.93	31.93	14.07

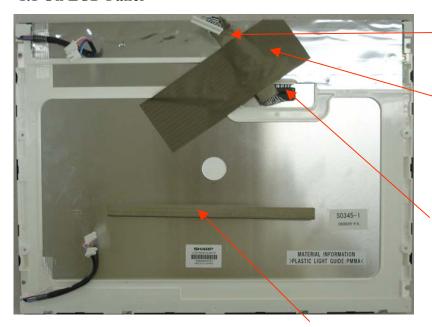
Supplementary information: Ferrite core was connected to S-Video, DVI and adapter ports for radiated emission

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5 EUT Modifications

1. SHARP LCD Panel

1.1 On LCD Panel



Wrap the cable with EMI tape

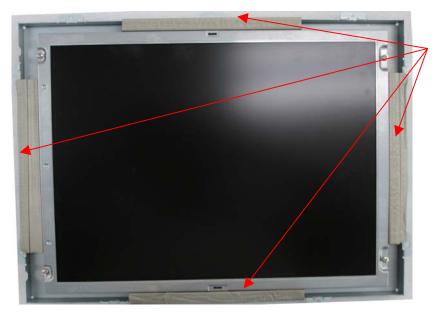
Touch aluminum body of panel and aluminum beaten sliver paper with EMI tape

Insert the ferrite core to cable

Maker: SCC Co.,Ltd Part no: PC2910

Attach EMI form gasket to make contact with LCD panel and main chassis.

1.2 Between LCD panel and main chassis



Insert 4 EMI form gasket to space between side of LCD panel and main chassis to make wide ground.

1.3 Board and wiring



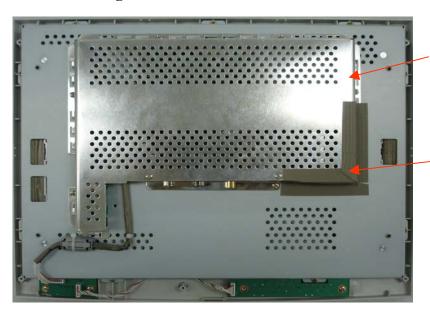
Cover the cable with EMI tape.

Wrap the cable with EMI tape and contact with main chassis by using cable tier.

Insert the ferrite core to the cable

Maker: TDK corporation, Part No: ZCAT1730-0730A-M-K

1.4 Shielding Board

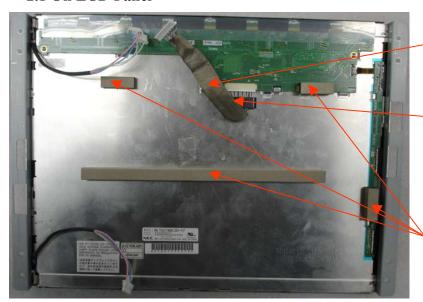


Cover the shield coverlet

Cover this point with EMI tape

2. NEC LCD Panel

2.1 On LCD Panel



Wrap the cable with EMI tape

Insert the ferrite core to cable

Maker : SCC Co.,Ltd Part no : PC2910

Attach EMI form gasket to make contact with LCD panel and main chassis.

2.2 Between LCD panel and main chassis



Insert 1 EMI form gasket to space between side of LCD panel and main chassis to make wide ground.

2.3 Board and wiring



Cover the cable with EMI tape.

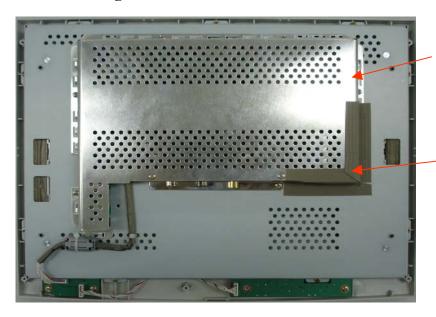
Wrap the cable with EMI tape and contact with main chassis by using cable tier.

Insert the ferrite core to the cable

Maker: TDK corporation Part No: ZCAT1730-0730A-

M-K

2.4 Shielding Board



Cover the shield coverlet

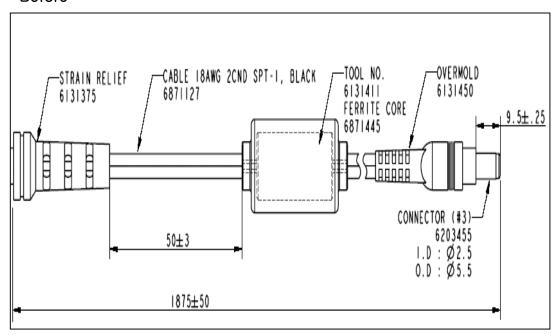
Cover this point with EMI tape

Project Number: 07CA59143 File Number MC15562

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3. DC Power adapter cable (Apply both SHARP AND NEC LCD)

Before



After

