

APPLICATION FOR CERTIFICATION
(Class II Permissive Change)
On Behalf of
Philips Electronics Industries (Taiwan) Ltd.
LCD TV

Model No. : 15PF5120

Brand : Philips Magnavox

FCC ID: A3KM135

Prepared for : Philips Electronics Industries (Taiwan) Ltd.
5, Tze Chiang 1 Rd, Chungli Ind. Park,
Chungli, Taoyuan Hsien, Taiwan, R.O.C.

Prepared By : AUDIX Corporation
Technical Division EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou,
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TEST REPORT CERTIFICATION

(Class II Permissive Change)

Applicant : Philips Electronics Industries (Taiwan) Ltd.
 Manufacturer : Philips Electronics Industries (Taiwan) Ltd.
 Factory : Philips Consumer Electronics Co., of Suzhou Ltd.
 EUT Description : LCD TV
 FCC ID : A3KM135
 (A) MODEL NO. : 15PF5120
 (B) SERIAL NO. : TY0405207
 (C) BRAND NAME : Philips Magnavox
 (D) POWER SUPPLY : 16VDC—, 2.5A
 (E) TEST VOLTAGE : AC 120V/60Hz (Via Power Adapter)

Measurement Standards and Methods Used :

FCC CFR 47 Part15 / Jan. 2005 and CISPR 22/1997 and ANSI C63.4-2003

The device described above was tested by AUDIX CORPORATION to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 Subpart B with the provisions of section §15.107 (a) and § 15.109 (g) Class B limits both conducted and radiated emission.

The measurement results are contained in this test report and AUDIX CORPORATION is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Corporation.

Date of Test : Jun. 29 ~ 30, 2005

Prepared by : Julie Hsu Jul. 8, 2005
 (Julie Hsu/Assistant Administrator)

Test Engineer : Jason Lin Jul. 8, 2005
 (Jason Lin/Supervisor)

Approve & Authorized Signer : Leon Liu Jul. 8, 2005
 (Leon Liu/Senior Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : LCD TV
 (The TV Tuner & AV Functions & HD
 Functions are not available in this test report)

Model Number : 15PF5120

Serial Number : TY0405207

FCC ID. : A3KM135

Brand : Philips Magnavox

Applicant : Philips Electronics Industries (Taiwan) Ltd.
 5, Tze Chiang 1 Rd, Chungli Ind. Park,
 Chungli, Taoyuan Hsien, Taiwan, R.O.C.

Manufacturer : Philips Electronics Industries (Taiwan) Ltd.
 5, Tze Chiang 1 Rd, Chungli Ind. Park,
 Chungli, Taoyuan Hsien, Taiwan, R.O.C.

Factory : Philips Consumer Electronics Co., of Suzhou
 Ltd.
 No. 161, Zhujiang Road, New District, Suzhou
 215011, PROC

LCD Panel : AUO, Type No. T150XG01

Scanning Frequency : Horizontal: 30-48kHz
 Vertical: 56-60Hz

Max Resolution : 1024*768 / 60Hz, 48kHz

DVI-A Data Cable : Shielded, Detachable, 1.8m
 Bonded a ferrite Cores

Audio Cable : Non-Shielded, Detachable, 1.5m

Power Adapter	:	Philips, EADP-60BB B AC Input: 100-240V~ 50-60Hz, 2A DC Output: 16V, 3.75A Cable: Shielded, Undetachable, 1.8m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m
Data of Receipt of Sample	:	Jun. 27, 2005
Date of Test	:	Jun. 29 ~ 30, 2005

Remark :

This EUT is a modified version of original FCC ID A3KM135, the differences are as follows:

- (1) Added a new Cabinets.
- (2) Added a new model number (15FPF5120)
- (3) Added a new Cable (DVI-A Cable)
- (4) Change the Scanning frequency (Horizontal: 30-48kHz, Vertical: 56-60Hz)
- (5) Change the Max Resolution (1024*768/60Hz, 48kHz)

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

Model Name	:	Dell Dim 4600PC
Model Number	:	DMC
Serial Number	:	N/A
FCC ID.	:	by FCC DoC
BSMI ID	:	R33002
Manufacturer	:	DELL
VGA Card	:	Nvidia FX5200
Power Cord	:	Non-shielded, Detachable, 1.8m

1.2.2. KEYBOARD

Model Number	:	SK-8110
Serial Number	:	N/A
BSMI ID	:	T3A002
FCC ID	:	by DoC
Manufacturer	:	DELL
Data Cable	:	Non-Shielded, Undetachable, 2m

1.2.3. PS2 MOUSE

Model Number	:	MO71KC
Serial Number	:	406012041
BSMI ID	:	R41108
FCC ID	:	by DoC
Manufacturer	:	DELL
Data Cable	:	Non-Shielded, Undetachable, 2m

1.2.4. PRINTER

Model Number	:	KX-P2135
Serial Number	:	8DMCNC02139
BSMI ID	:	3872A371
FCC ID	:	ACJ5Z6KX-P2135
Manufacturer	:	Matsushita (Brand: Panasonic)
Data Cable	:	Non-Shielded, Detachable, 1.5m
Power Cord	:	Non-Shielded, Undetachable, 1.8m

1.2.5. MICROPHONE

Model Number	:	HD-303
Serial Number	:	N/A
Manufacturer	:	Multimedia Microphone System
Data Cable	:	Non-Shielded, Undetachable, 2.2m

1.2.6. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08715
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.7. MICRO VAULT (USB Storage Media)

Model Number	:	USM128U2
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI ID	:	D33021
Manufacturer	:	SONY
Data Cable	:	Non-Shielded, Detachable, 2.0m

1.2.8. EARPHONE (Link to EUT)

Model Number	:	N/A
Manufacturer	:	Panasonic
Earphone Cable	:	Non-Shielded, Undetachable, 1.1m

1.2.9. COLOUR TV PATTERN GENERATOR (Link to EUT)

Model Number	:	PM5418TDSI
Type Number	:	LO646252
Manufacturer	:	Philips
Coaxial Cable	:	Shielded, Detachable, 1.5m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.3. Description of Test Facility

Name of Firm : **Audix Corporation**
 Technical Division EMC Department
 No. 53-11, Tin-Fu Tsun, Lin-Kou,
 Taipei County, Taiwan, R.O.C.

Test Facility & Location : **No. 3 Shielded Room**
 (C3/R4) No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei Hsien 24443, Taiwan, R.O.C.

No. 4 Open Area Test Site
 No. 67-4, Tin-Fu Tsun, Lin-Kou,
 Taipei County, Taiwan, R.O.C.

March 31, 2003 Renewal on
 Federal Communication Commission
 Registration Number: 90991

NVLAP Lab. Code : 200077-0
 (NVLAP is a NATA accredited body under Mutual Recognition Agreement)

DAR-Registration No. : DAT-P-145/03-01

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 10m)	30MHz~300MHz	±2.99dB
	300MHz~1000MHz	±2.73dB

Remark : Uncertainty = $ku_c(y)$

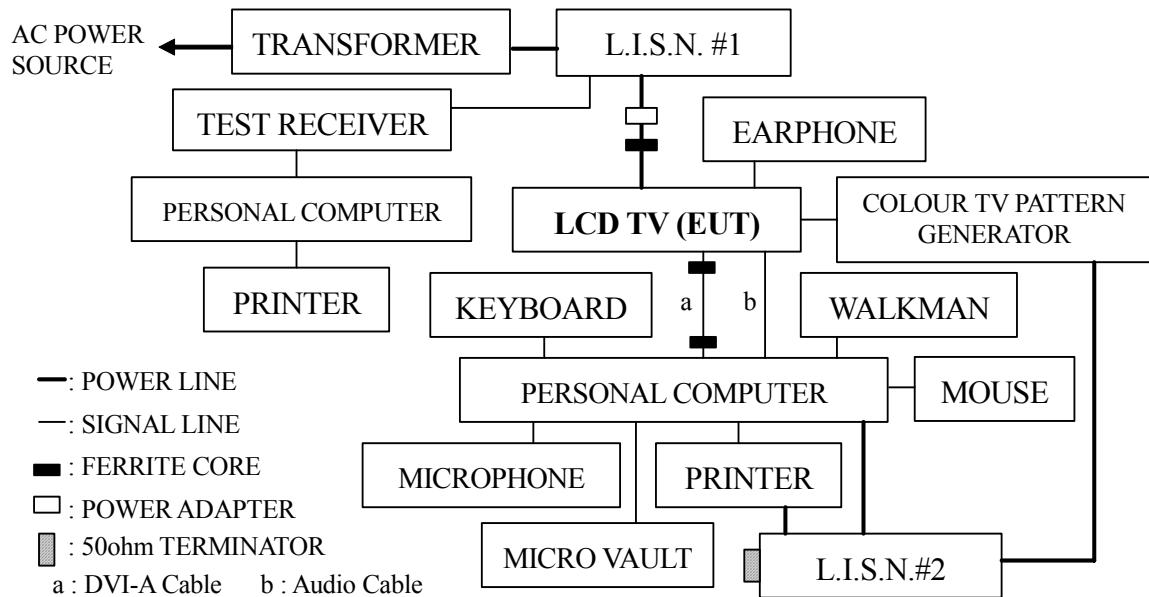
2. POWERLINE CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipments are used during the power line conducted tests :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	Rohde & Schwarz	ESCS 30	825442/020	Aug.05, 04'	Aug.04, 05'
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-1370-10	Jun.09, 05'	Jun.08, 06'
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-1370-9	Jun.09, 04'	Jun.08, 06'
4.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100041	Apr.09, 05'	Apr.08, 06'

2.2. Block Diagram of Test Setup



2.3. Conducted Powerline Emission Limit (§15.107, Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark: 1. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.
 2. The lower limit applies at the band edges.

2.4. EUT's Configuration during Compliance Measurement

The following equipments were installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application.

2.4.1. LCD TV (EUT)

Model Number	:	15PF5120
Serial Number	:	TY0405207
FCC ID	:	A3KM135
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
LCD Panel	:	AUO, Type No. T150XG01
DVI-A Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Audio Cable	:	Non-Shielded, Detachable, 1.8m
Power Adapter	:	Philips, EADP-60BB AC Input: 100-240V~ 50-60Hz, 2A DC Output: 16V, 3.75A Cable: Shielded, Undetachable, 1.8m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m
2.4.2. Supporting System	:	As in Section 1.2

2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown on 2.2.
- 2.5.2. Turned on the power of all equipments.
- 2.5.3. Personal computer read data from disk.
- 2.5.4. The PC System running the test program "Testpatv" by Windows XP and the screen of EUT displayed "H" pattern by EUT's resolution via DVI Input.
- 2.5.5. Set the PC System to send the "H" pattern to EUT via DVI Input, and send the "Color Bar" image to EUT via RF Input. The screen of EUT display "H" pattern and the "Color Bar" image at same time during PIP mode testing.
- 2.5.6. The PC System running the program "Windows Media Player" and sent the sound to earphone of EUT during all testing.
- 2.5.7. The PC System read data from FDD and then wrote data into FDD, same operation from HDD 、 Modem.
- 2.5.8. The other peripheral devices were drove and operated in turn during all testing.
- 2.5.9. Repeat above procedure from 2.5.3 to 2.5.8.

2.6. Test Procedure

The EUT was connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). This provided a 50ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to FCC ANSI C63.4-2003 on conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was pre-scanned with a peak detector.

The all final readings from test receiver were measured with Quasi-Peak detector and Average detector. (Remark : If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.7. Line Conducted RF Voltage Measurement Results

PASSED. All emissions not reported below are too low against the prescribed limits.

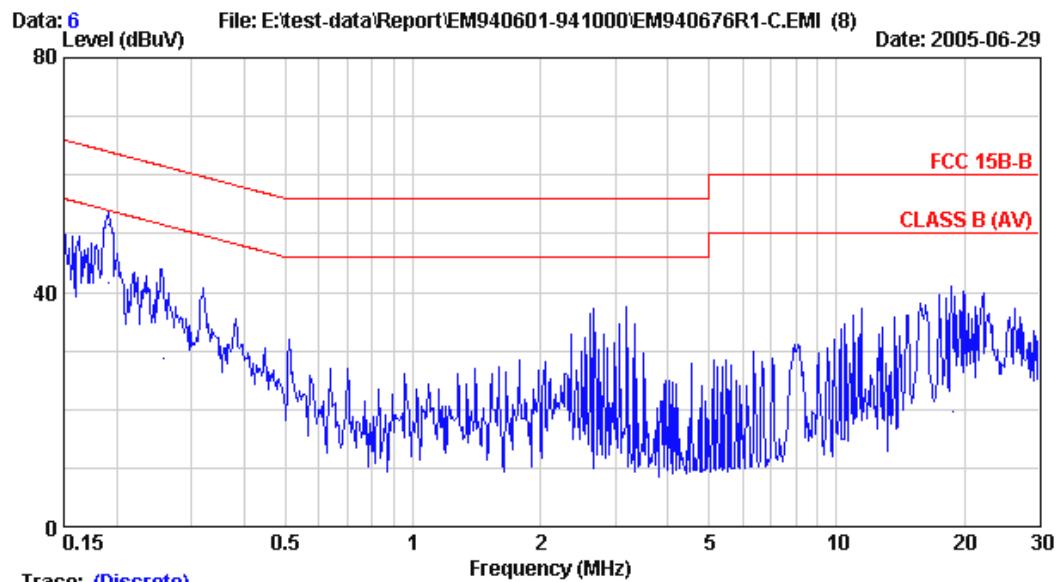
EUT with the selected as following test modes were performed during conducted measurement and all the test results are attached next pages.

Test Date : Jun. 29, 2005 Temperature : 26°C Humidity : 54%

Mode	Input Port	Frequency / Resolution, Image	Reference Data No.	
			Neutral	Line
1.	DVI	640*480/60Hz, 31kHz; H Pattern	# 6	# 5
2.		800*600/60Hz, 38kHz; H Pattern	# 3	# 4
3.		1024*768/60Hz, 48kHz; H Pattern	# 2	# 1
4.	DVI + RF	1024*768/60Hz, 48kHz; H Pattern + Image "Color Bar" (PIP Mode)	# 7	# 8



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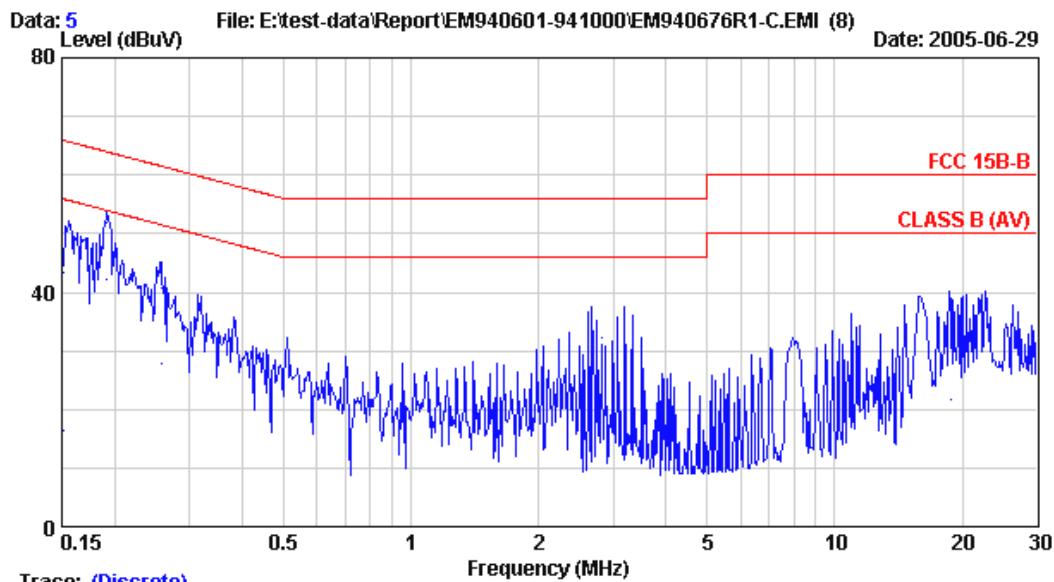
Site : NO.3 Shielded Room Data : 6
 Condition : KNW-407 Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : 26°C/54% ESCS30 Engineer: JAMES CHOU
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac/60Hz
 Test Mode : 640*480/60Hz/31KHz

Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Emission			Limits (dBuV)	Margin (dB)	Remark
			Reading (dB μ V)	Level (dB μ V)				
1 0.150	0.30	0.20	42.59	43.09	65.97	22.89	QP	
2 0.151	0.30	0.20	15.01	15.51	55.97	40.46	AVERAGE	
3 0.191	0.21	0.20	51.18	51.59	63.98	12.38	QP	
4 0.191	0.21	0.20	41.16	41.57	53.97	12.40	AVERAGE	
5 0.258	0.16	0.20	39.83	40.19	61.49	21.30	QP	
6 0.258	0.16	0.20	28.21	28.57	51.48	22.91	AVERAGE	
7 2.813	0.10	0.40	31.38	31.88	56.00	24.12	QP	
8 2.813	0.10	0.40	21.80	22.30	46.00	23.70	AVERAGE	
9 3.328	0.10	0.40	33.47	33.97	56.00	22.03	QP	
10 3.328	0.10	0.40	21.68	22.18	46.00	23.82	AVERAGE	
11 18.753	0.28	0.70	31.39	32.37	60.00	27.63	QP	
12 18.755	0.28	0.70	18.70	19.68	50.00	30.32	AVERAGE	

Remarks: 1. Emission Level = LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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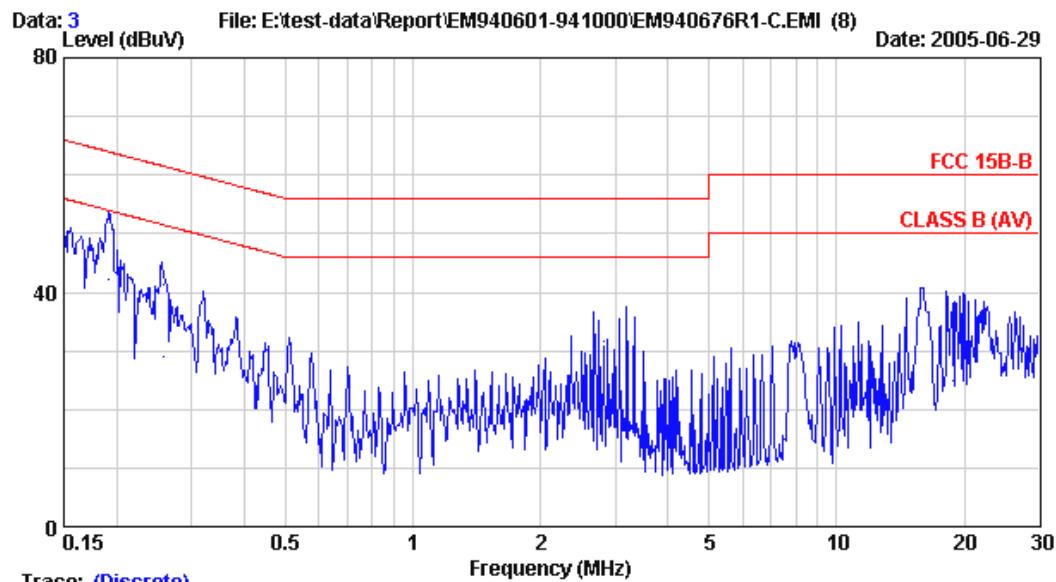
Site : NO.3 Shielded Room Data : 5
 Condition : KNW-407 Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : 26°C/54% ESCS30 Engineer: JAMES CHOU
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac/60Hz
 Test Mode : 640*480/60Hz/31KHz

Freq. (MHz)	Factor (dB)	Cable Loss (dB)	LISN		Emission Level (dB μ V)	Limits (dB μ V)	Margin (dB)	Remark
			Reading (dB μ V)	Level (dB μ V)				
1 0.152	0.30	0.20	42.93	43.43	65.92	22.49	QP	
2 0.152	0.30	0.20	16.05	16.55	55.91	39.37	AVERAGE	
3 0.191	0.21	0.20	51.31	51.72	63.99	12.26	QP	
4 0.191	0.21	0.20	41.70	42.11	53.98	11.87	AVERAGE	
5 0.258	0.16	0.20	40.47	40.83	61.49	20.66	QP	
6 0.258	0.16	0.20	27.44	27.80	51.49	23.69	AVERAGE	
7 2.813	0.10	0.40	31.76	32.26	56.00	23.74	QP	
8 2.813	0.10	0.40	23.40	23.90	46.00	22.10	AVERAGE	
9 3.328	0.10	0.40	34.14	34.64	56.00	21.36	QP	
10 3.328	0.10	0.40	24.66	25.16	46.00	20.84	AVERAGE	
11 18.753	0.28	0.70	33.06	34.04	60.00	25.96	QP	
12 18.754	0.28	0.70	20.70	21.68	50.00	28.32	AVERAGE	

Remarks: 1. Emission Level = LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 , the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



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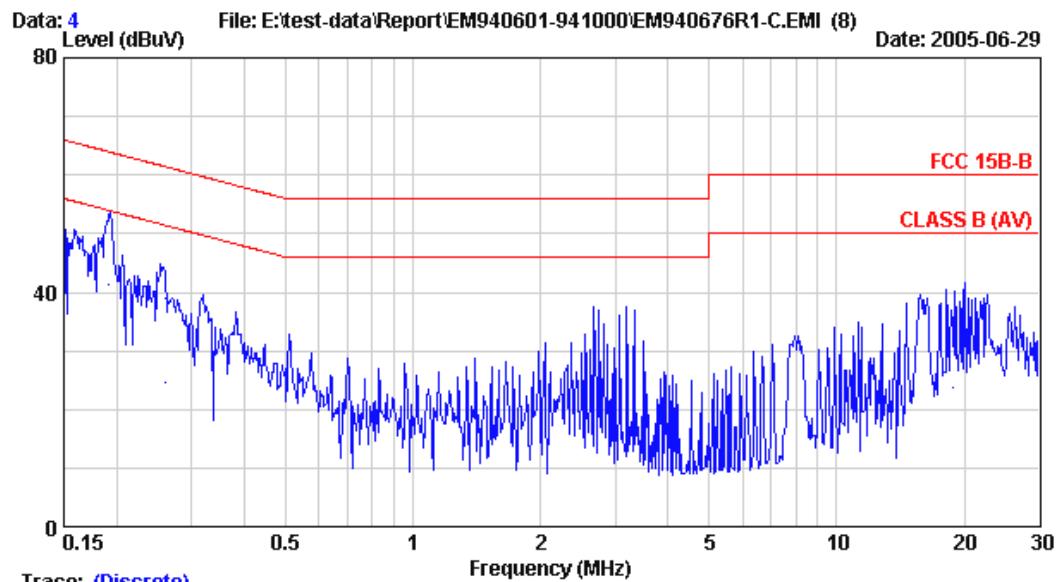
Site : NO.3 Shielded Room Data : 3
 Condition : KNW-407 Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : 26°C/54% ESCS30 Engineer: JAMES CHOU
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac/60Hz
 Test Mode : 800*600/60Hz/38KHz

Freq. (MHz)	Factor (dB)	Cable Loss (dB)	LISN		Emission Level (dB μ V)	Limits (dB μ V)	Margin (dB)	Remark
			Reading (dB μ V)	Level (dB μ V)				
1 0.150	0.30	0.20	41.97	42.47	65.99	23.52	QP	
2 0.150	0.30	0.20	14.62	15.12	55.98	40.86	AVERAGE	
3 0.191	0.21	0.20	52.13	52.54	63.99	11.44	QP	
4 0.191	0.21	0.20	41.87	42.28	53.98	11.69	AVERAGE	
5 0.258	0.16	0.20	41.03	41.39	61.49	20.10	QP	
6 0.258	0.16	0.20	28.71	29.07	51.49	22.41	AVERAGE	
7 2.813	0.10	0.40	31.26	31.76	56.00	24.24	QP	
8 2.813	0.10	0.40	20.90	21.40	46.00	24.60	AVERAGE	
9 3.326	0.10	0.40	34.40	34.90	56.00	21.10	QP	
10 3.327	0.10	0.40	23.67	24.17	46.00	21.83	AVERAGE	
11 18.753	0.28	0.70	34.83	35.81	60.00	24.19	QP	
12 18.755	0.28	0.70	24.00	24.98	50.00	25.02	AVERAGE	

Remarks: 1. Emission Level = LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 , the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



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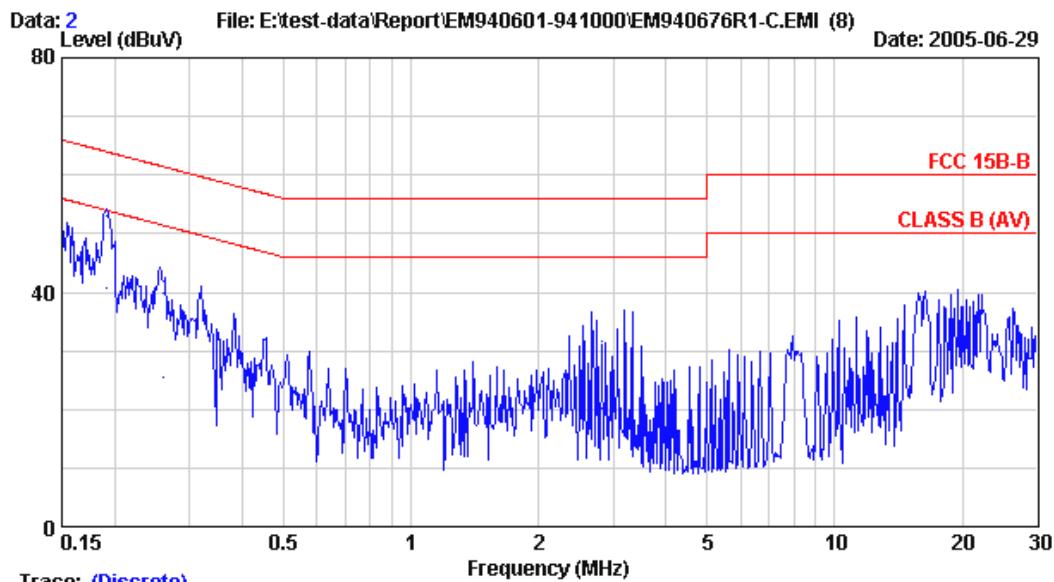
Site : NO.3 Shielded Room Data : 4
 Condition : KNW-407 Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : 26°C/54% ESCS30 Engineer: JAMES CHOU
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac/60Hz
 Test Mode : 800*600/60Hz/38KHz

Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Emission			Limits (dBuV)	Margin (dB)	Remark
			Reading (dB μ V)	Level (dB μ V)				
1 0.150	0.30	0.20	42.11	42.61	65.99	23.38	QP	
2 0.150	0.30	0.20	14.28	14.78	55.99	41.21	AVERAGE	
3 0.191	0.21	0.20	51.67	52.08	63.99	11.90	QP	
4 0.191	0.21	0.20	40.77	41.18	53.98	12.80	AVERAGE	
5 0.259	0.16	0.20	38.61	38.97	61.45	22.48	QP	
6 0.260	0.16	0.20	24.39	24.75	51.44	26.69	AVERAGE	
7 2.813	0.10	0.40	31.72	32.22	56.00	23.78	QP	
8 2.813	0.10	0.40	23.14	23.64	46.00	22.36	AVERAGE	
9 3.328	0.10	0.40	34.40	34.90	56.00	21.10	QP	
10 3.328	0.10	0.40	24.81	25.31	46.00	20.69	AVERAGE	
11 18.753	0.28	0.70	34.41	35.39	60.00	24.61	QP	
12 18.754	0.28	0.70	22.63	23.61	50.00	26.39	AVERAGE	

Remarks: 1. Emission Level = LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



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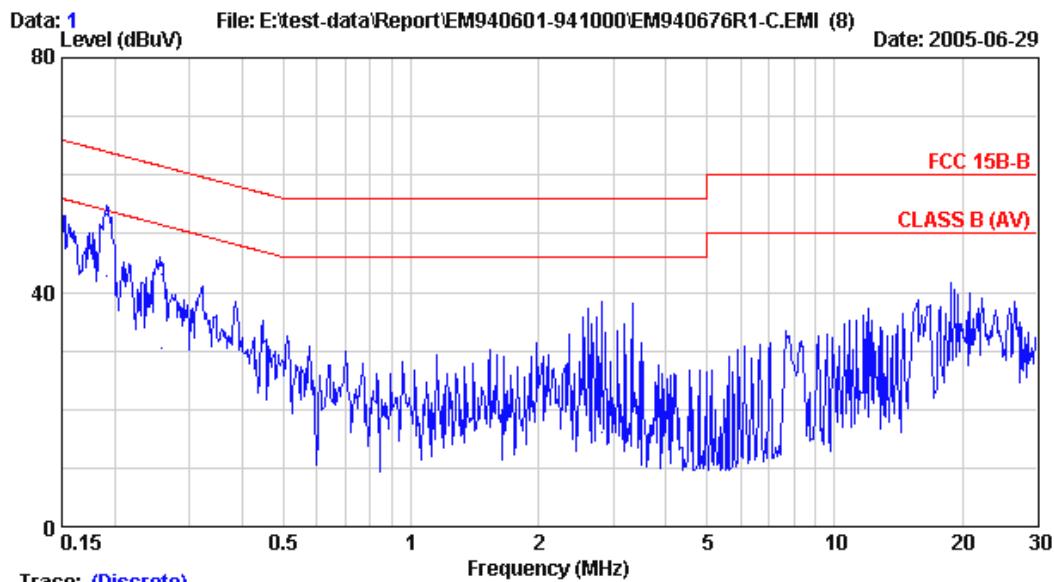
Site : NO.3 Shielded Room Data : 2
 Condition : KNW-407 Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : 26°C/54% ESCS30 Engineer: JAMES CHOU
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac/60Hz
 Test Mode : 1024*768/60Hz/48KHz

Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Emission			Limits (dBuV)	Margin (dB)	Remark
			Reading (dB μ V)	Level (dB μ V)				
1 0.150	0.30	0.20	42.27	42.77	66.00	23.23	QP	
2 0.150	0.30	0.20	14.71	15.21	55.99	40.78	AVERAGE	
3 0.191	0.21	0.20	52.51	52.92	63.98	11.06	QP	
4 0.191	0.21	0.20	40.39	40.80	53.98	13.18	AVERAGE	
5 0.259	0.16	0.20	39.61	39.97	61.45	21.48	QP	
6 0.259	0.16	0.20	25.06	25.42	51.45	26.03	AVERAGE	
7 2.813	0.10	0.40	31.07	31.57	56.00	24.43	QP	
8 2.813	0.10	0.40	19.66	20.16	46.00	25.84	AVERAGE	
9 3.328	0.10	0.40	34.82	35.32	56.00	20.68	QP	
10 3.328	0.10	0.40	23.70	24.20	46.00	21.80	AVERAGE	
11 18.753	0.28	0.70	35.90	36.88	60.00	23.12	QP	
12 18.754	0.28	0.70	26.99	27.97	50.00	22.03	AVERAGE	

Remarks: 1. Emission Level = LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



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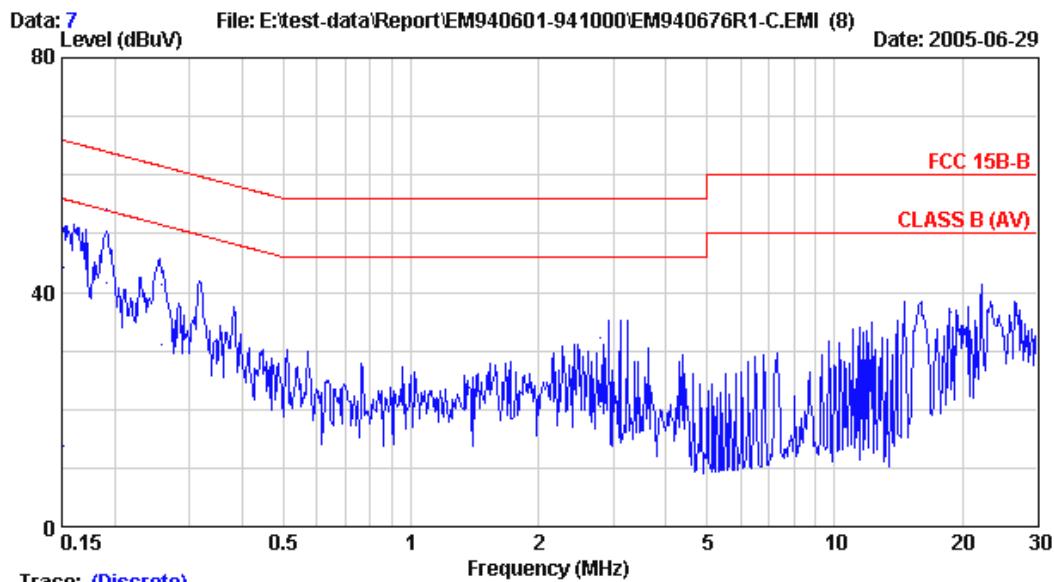
Site : NO.3 Shielded Room Data : 1
 Condition : KNW-407 Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : 26°C/54% ESCS30 Engineer: JAMES CHOU
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac/60Hz
 Test Mode : 1024*768/60Hz/48KHz

Freq. (MHz)	Factor (dB)	Loss (dB)	Reading (dB μ V)	Emission			
				Level (dB μ V)	Limits (dB μ V)	Margin (dB)	Remark
1 0.150	0.30	0.20	43.77	44.27	66.00	21.73	QP
2 0.150	0.30	0.20	14.22	14.72	56.00	41.28	AVERAGE
3 0.191	0.21	0.20	53.02	53.44	63.99	10.56	QP
4 0.191	0.21	0.20	42.39	42.81	53.99	11.18	AVERAGE
5 0.258	0.16	0.20	42.70	43.06	61.50	18.44	QP
6 0.258	0.16	0.20	30.19	30.55	51.50	20.95	AVERAGE
7 2.810	0.10	0.40	27.17	27.67	56.00	28.33	QP
8 2.810	0.10	0.40	15.52	16.02	46.00	29.98	AVERAGE
9 3.327	0.10	0.40	35.68	36.18	56.00	19.82	QP
10 3.329	0.10	0.40	24.26	24.76	46.00	21.24	AVERAGE
11 18.753	0.28	0.70	37.25	38.23	60.00	21.77	QP
12 18.753	0.28	0.70	30.58	31.56	50.00	18.44	AVERAGE

Remarks: 1. Emission Level = LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 , the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



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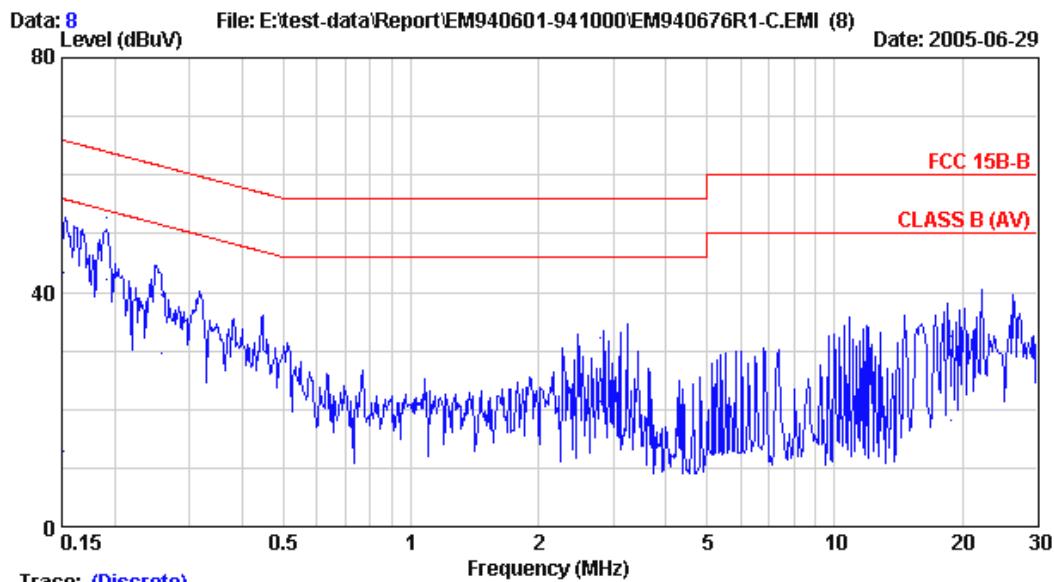
Site : NO.3 Shielded Room Data : 7
 Condition : KNW-407 Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : 26°C/54% ESCS30 Engineer: JAMES CHOU
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac/60Hz
 Test Mode : PIP

Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Emission			Limits (dBuV)	Margin (dB)	Remark
			Reading (dB μ V)	Level (dB μ V)				
1 0.151	0.30	0.20	43.89	44.39	65.94	21.55	QP	
2 0.151	0.30	0.20	13.15	13.65	55.94	42.29	AVERAGE	
3 0.191	0.21	0.20	53.88	54.29	63.99	9.70	QP	
4 0.191	0.21	0.20	41.21	41.62	53.99	12.36	AVERAGE	
5 0.259	0.16	0.20	40.99	41.35	61.48	20.12	QP	
6 0.259	0.16	0.20	30.60	30.96	51.47	20.51	AVERAGE	
7 2.800	0.10	0.40	31.76	32.26	56.00	23.74	QP	
8 2.803	0.10	0.40	20.10	20.60	46.00	25.40	AVERAGE	
9 3.246	0.10	0.40	34.54	35.04	56.00	20.96	QP	
10 3.249	0.10	0.40	23.63	24.13	46.00	21.87	AVERAGE	
11 18.727	0.28	0.70	35.56	36.54	60.00	23.46	QP	
12 18.730	0.28	0.70	28.56	29.54	50.00	20.46	AVERAGE	

Remarks: 1. Emission Level = LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: (Discrete)

Site : NO.3 Shielded Room Data : 8
 Condition : KNW-407 Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : 26°C/54% ESCS30 Engineer: JAMES CHOU
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac/60Hz
 Test Mode : PIP

Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Emission			Limits (dBuV)	Margin (dB)	Remark
			Reading (dB μ V)	Level (dB μ V)				
1 0.151	0.30	0.20	42.87	43.36	65.92	22.56	QP	
2 0.151	0.30	0.20	12.38	12.87	55.92	43.05	AVERAGE	
3 0.192	0.21	0.20	52.39	52.80	63.96	11.16	QP	
4 0.192	0.21	0.20	41.86	42.27	53.96	11.69	AVERAGE	
5 0.259	0.16	0.20	39.31	39.67	61.47	21.79	QP	
6 0.259	0.16	0.20	29.12	29.48	51.47	21.98	AVERAGE	
7 2.800	0.10	0.40	31.86	32.36	56.00	23.64	QP	
8 2.801	0.10	0.40	20.90	21.40	46.00	24.60	AVERAGE	
9 3.250	0.10	0.40	33.19	33.69	56.00	22.31	QP	
10 3.253	0.10	0.40	22.11	22.61	46.00	23.39	AVERAGE	
11 18.731	0.28	0.70	31.49	32.47	60.00	27.53	QP	
12 18.734	0.28	0.70	17.29	18.27	50.00	31.73	AVERAGE	

Remarks: 1. Emission Level = LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 , the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

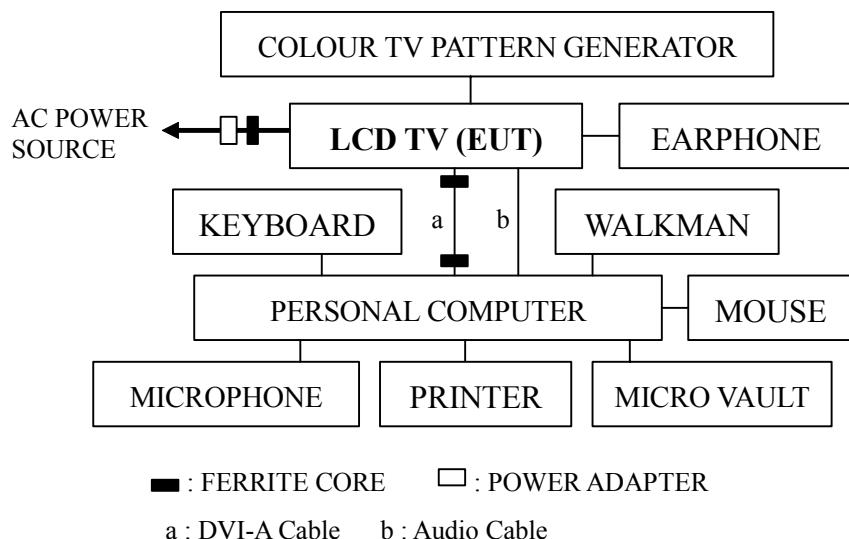
3.1. Test Equipment

The following test equipments are used during the radiated emission tests :

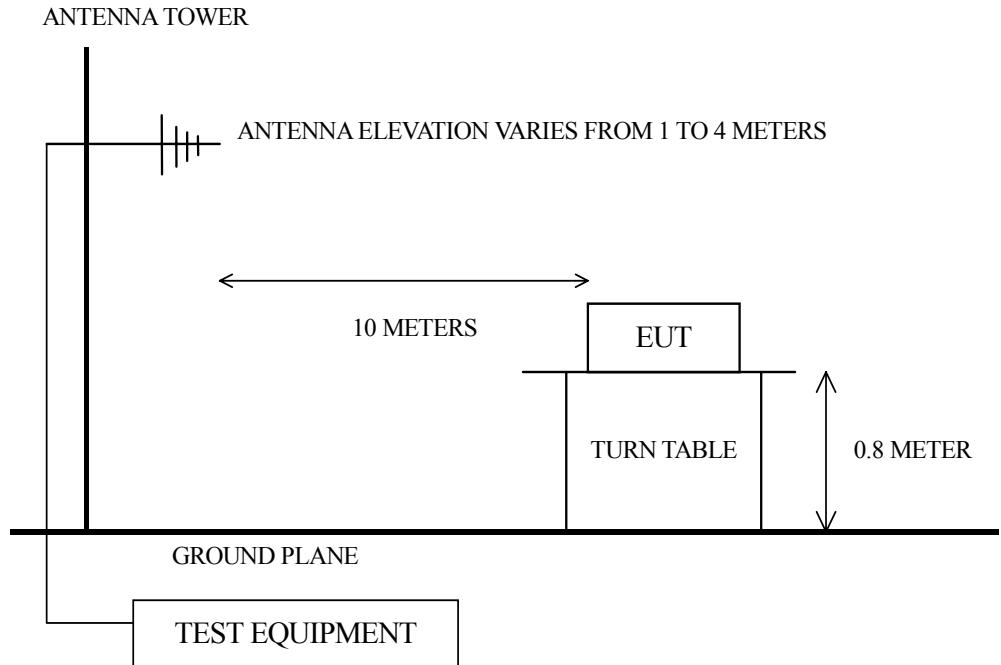
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8590L	3624A01446	N/A	N/A
2.	Test Receiver	Rohde&Schwarz	ESVS10	845165/018	Jun.08, 05'	Jun.07, 06'
3.	Amplifier	HP	8447D	2727A05737	N/A	N/A
4.	Broadband Antenna	Chase	VBA6106A	1263	Nov.15, 04'	Nov.14, 05'
5.	Log Periodic Antenna	Chase	UPA6109	1020	Nov.15, 04'	Nov.14, 05'

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Open Area Test Site Setup Diagram



3.3. Radiation Limit (§15.109/CISPR 22, Class B)

All emanations from a class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37

Note : (1) The tighter limit applies at the edge between two frequency bands.
 (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.

3.4. EUT's Configuration during Compliance Measurement

The configuration of EUT and its simulators were the same as those used in conducted measurement. Please refer to 2.4.

3.5. Operating Condition of EUT

Same as conducted measurement which was listed in 2.5. except the test set up replaced by section 3.2.

3.6. Test Procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table rotate 360 degrees to determine the position of the maximum emission level. EUT was set 10 meters away from the receiving antenna which were mounted on a antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) and dipole antenna were used as receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2003 and CISPR 22 on radiated measurement.

The bandwidth of the R&S Test Receiver ESVS10 was set at 120kHz.

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector.

The all final readings from test receiver were measured with Quasi-Peak detector.

3.7. Radiated Emission Measurement Results

PASSED. All emissions not reported below are too low against the prescribed limits.

EUT with the selected as following test modes were performed during radiated measurement and all the test results are attached next pages.

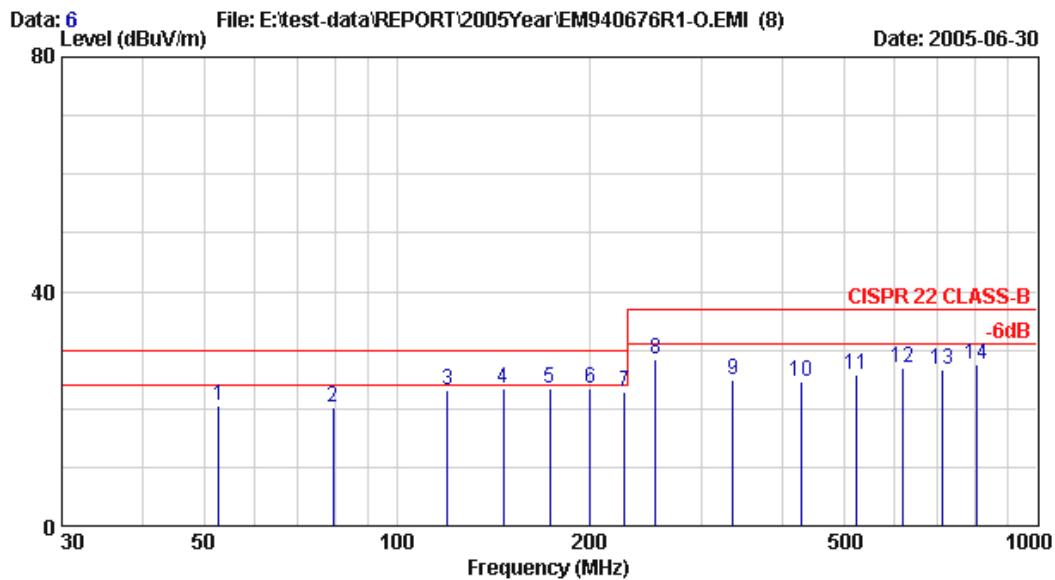
Test Date : Jun. 30, 2005 Temperature : 32°C Humidity : 52%

Mode	Input Port	Frequency / Resolution, Image	Reference Data No.	
			Horizontal	Vertical
1.	DVI	640*480/60Hz, 31kHz; H Pattern	# 6	# 5
2.		800*600/60Hz, 38kHz; H Pattern	# 3	# 4
3.		1024*768/60Hz, 48kHz; H Pattern	# 2	# 1
4.	DVI + RF	1024*768/60Hz, 48kHz; H Pattern + Image "Color Bar" (PIP Mode)	# 7	# 8

(※ mode for maximum detected emission)



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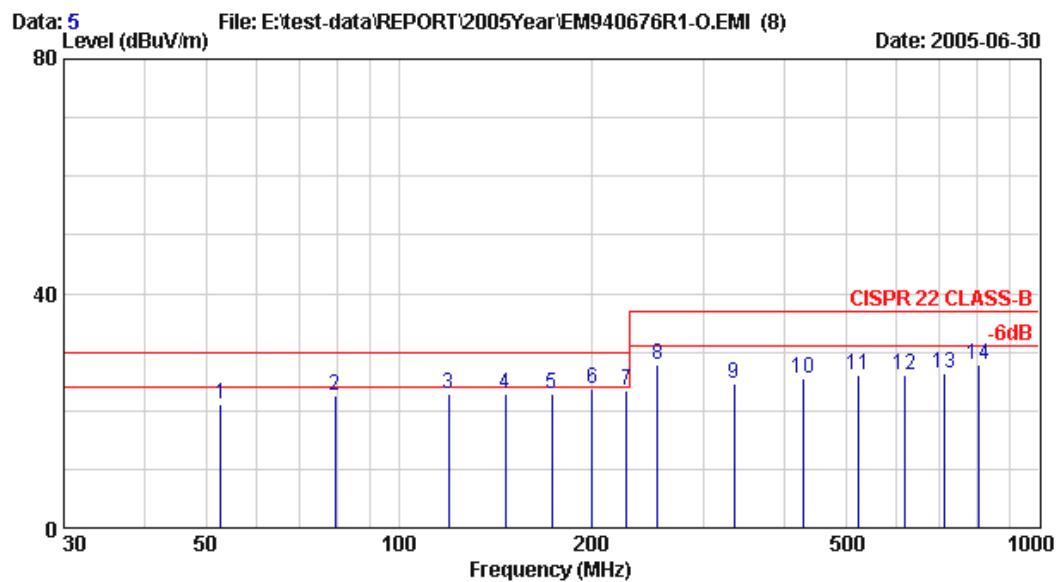
Site no. : NO.4 Open Site Data no. : 6
 Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
 Limit : CISPR 22 CLASS-B
 Env. / Ins. : 32°C / 52% EHSV 10 Engineer : Tony Chen
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac / 60Hz
 Test Mode : 640*480 / 60Hz;31KHz(DVI-A)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission			
			Reading (dB μ V)	Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
1	52.786	15.12	0.77	4.52	20.40	30.00 9.60
2	79.657	13.86	0.94	5.49	20.29	30.00 9.71
3	119.901	18.97	1.11	3.10	23.18	30.00 6.82
4	146.753	20.67	1.35	1.35	23.37	30.00 6.63
5	173.606	21.22	1.38	0.71	23.31	30.00 6.69
6	200.435	21.20	1.62	0.64	23.46	30.00 6.54
7	227.286	22.12	1.56	-0.77	22.91	30.00 7.09
8	254.136	23.11	1.69	3.67	28.47	37.00 8.53
9	334.660	14.51	2.03	8.27	24.81	37.00 12.19
10	428.597	16.61	2.29	5.74	24.64	37.00 12.36
11	522.554	18.70	2.48	4.58	25.75	37.00 11.25
12	616.486	20.93	2.80	3.22	26.94	37.00 10.06
13	710.446	21.71	3.07	1.82	26.60	37.00 10.40
14	804.379	23.17	3.30	1.18	27.65	37.00 9.35

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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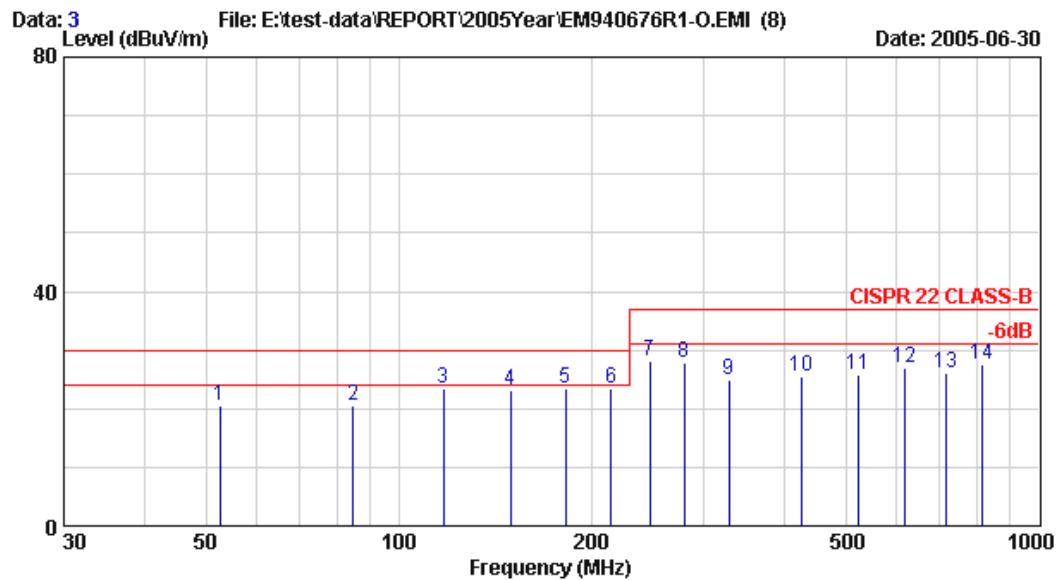
Site no. : NO.4 Open Site Data no. : 5
 Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
 Limit : CISPR 22 CLASS-B
 Env. / Ins. : 32°C / 52% EHSV 10 Engineer : Tony Chen
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac / 60Hz
 Test Mode : 640*480 / 60Hz;31KHz(DVI-A)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dB μ V)	Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	
1	52.694	15.37	0.77	4.99	21.12	30.00	8.88
2	79.597	14.21	0.94	7.27	22.42	30.00	7.58
3	119.823	18.21	1.11	3.62	22.94	30.00	7.06
4	146.661	20.34	1.35	1.10	22.79	30.00	7.21
5	173.510	21.70	1.38	-0.17	22.91	30.00	7.09
6	200.347	22.38	1.62	-0.32	23.69	30.00	6.31
7	227.215	23.47	1.56	-1.58	23.45	30.00	6.55
8	254.050	23.57	1.69	2.71	27.97	37.00	9.03
9	334.598	14.54	2.03	8.17	24.74	37.00	12.26
10	428.540	17.25	2.28	5.89	25.42	37.00	11.58
11	522.497	19.05	2.48	4.61	26.14	37.00	10.86
12	616.439	19.91	2.80	3.34	26.05	37.00	10.95
13	710.396	21.59	3.07	1.81	26.47	37.00	10.53
14	804.366	23.41	3.30	1.27	27.97	37.00	9.03

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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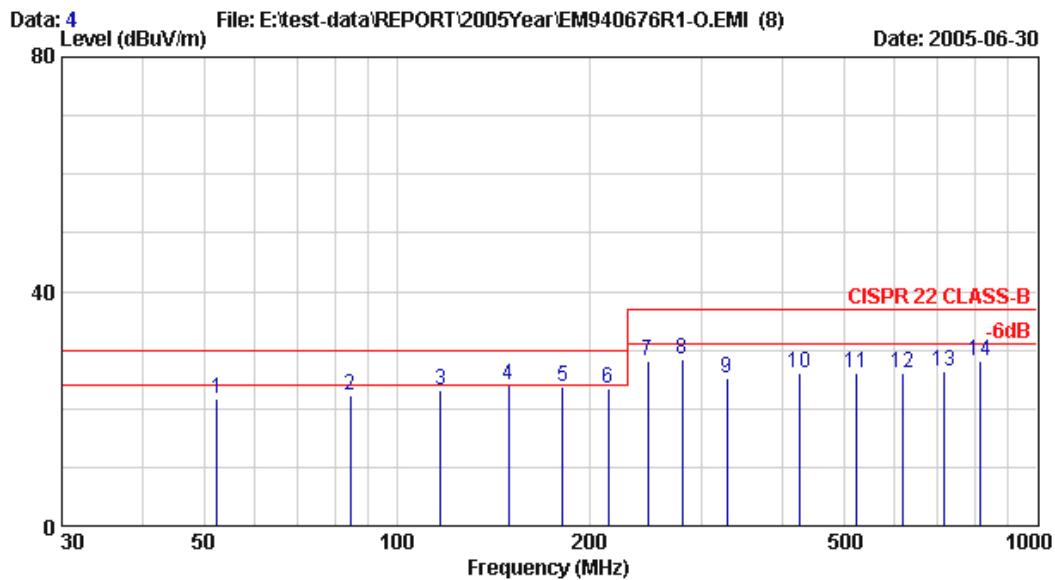
Site no. : NO.4 Open Site Data no. : 3
 Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
 Limit : CISPR 22 CLASS-B
 Env. / Ins. : 32°C / 52% EHSV 10 Engineer : Tony Chen
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac / 60Hz
 Test Mode : 800*600 / 60Hz;38KHz(DVI-A)

Freq. (MHz)	Ant. Cable		Emission			
	Factor (dB/m)	Loss (dB)	Reading (dB μ V)	Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
1 52.523	15.12	0.76	4.53	20.41	30.00	9.59
2 84.962	15.45	0.98	4.04	20.47	30.00	9.53
3 117.368	18.92	1.10	3.34	23.36	30.00	6.64
4 149.707	20.85	1.35	0.85	23.05	30.00	6.95
5 182.124	21.11	1.53	0.72	23.36	30.00	6.64
6 214.479	21.45	1.50	0.41	23.37	30.00	6.63
7 246.855	23.07	1.66	3.29	28.01	37.00	8.99
8 279.199	24.60	1.73	1.51	27.85	37.00	9.15
9 327.758	14.59	1.98	8.19	24.77	37.00	12.23
10 424.839	16.50	2.27	6.59	25.36	37.00	11.64
11 521.943	18.73	2.48	4.45	25.66	37.00	11.34
12 619.016	20.92	2.81	3.09	26.82	37.00	10.18
13 716.111	21.40	3.08	1.72	26.20	37.00	10.80
14 813.200	23.08	3.31	1.11	27.50	37.00	9.50

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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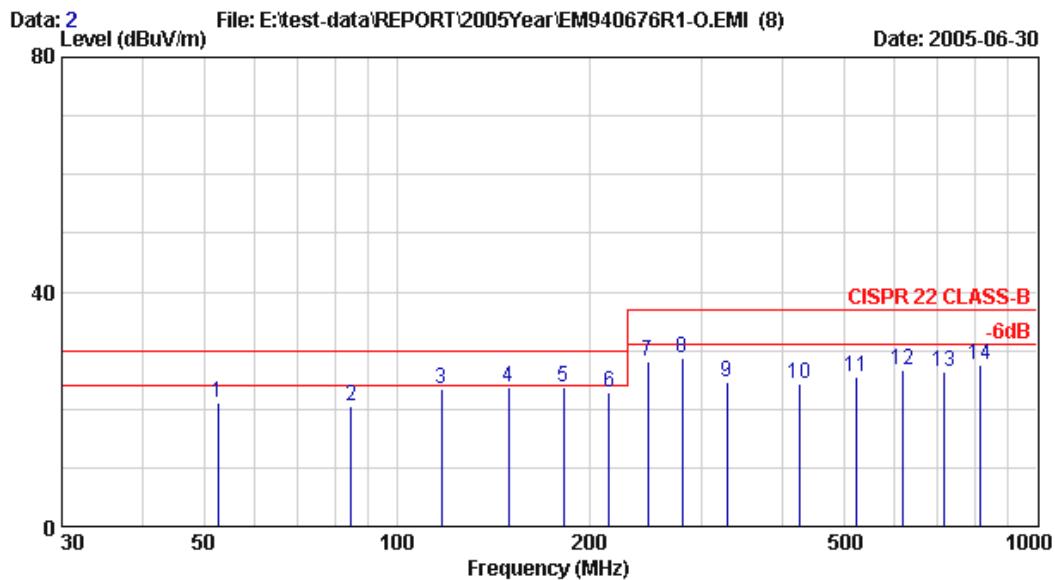
Site no. : NO.4 Open Site Data no. : 4
 Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
 Limit : CISPR 22 CLASS-B
 Env. / Ins. : 32°C / 52% EHSV 10 Engineer : Tony Chen
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac / 60Hz
 Test Mode : 800*600 / 60Hz;38KHz(DVI-A)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dB μ V)	Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	
1	52.436	15.37	0.76	5.43	21.56	30.00	8.44
2	84.659	14.83	0.98	6.53	22.34	30.00	7.66
3	117.149	17.87	1.10	4.20	23.17	30.00	6.83
4	149.484	20.25	1.35	2.57	24.17	30.00	5.83
5	181.903	21.53	1.51	0.77	23.81	30.00	6.19
6	214.291	22.03	1.50	0.03	23.56	30.00	6.44
7	246.674	23.13	1.66	3.27	28.06	37.00	8.94
8	279.029	23.45	1.73	3.30	28.49	37.00	8.51
9	327.627	13.97	1.98	9.16	25.11	37.00	11.89
10	424.678	17.25	2.27	6.54	26.06	37.00	10.94
11	521.786	19.04	2.48	4.68	26.20	37.00	10.80
12	618.867	19.93	2.81	3.20	25.94	37.00	11.06
13	715.926	21.39	3.08	2.01	26.48	37.00	10.52
14	813.028	23.67	3.31	1.01	27.99	37.00	9.01

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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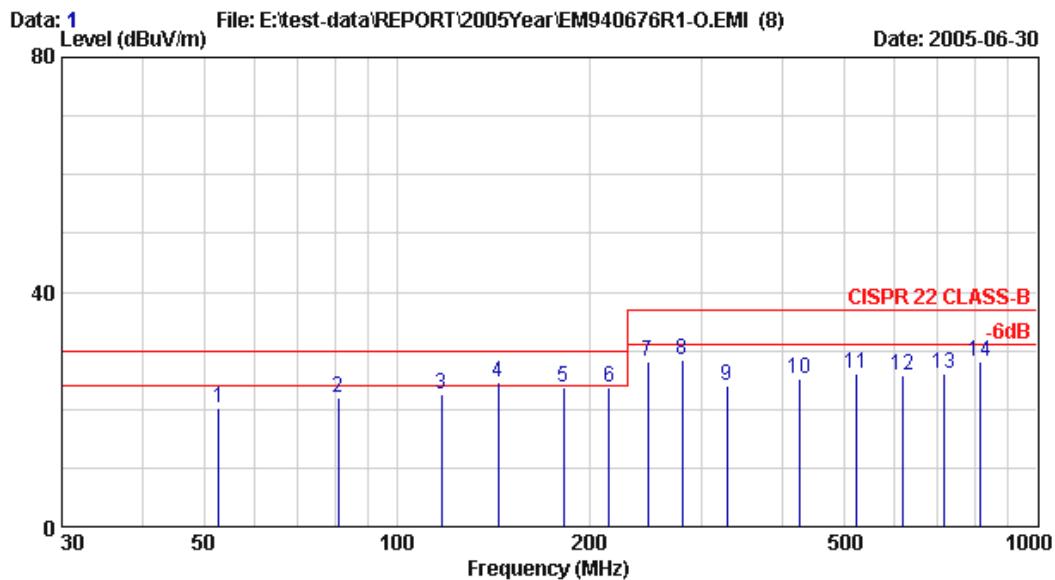
Site no. : NO.4 Open Site Data no. : 2
 Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
 Limit : CISPR 22 CLASS-B
 Env. / Ins. : 32°C / 52% EHSV 10 Engineer : Tony Chen
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac / 60Hz
 Test Mode : 1024*768 / 60Hz;48KHz(DVI-A)

Freq. (MHz)	Ant. Cable		Emission				
	Factor (dB/m)	Loss (dB)	Reading (dB μ V)	Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	
1	52.631	15.12	0.77	5.34	21.22	30.00	8.78
2	84.943	15.45	0.98	4.00	20.43	30.00	9.57
3	117.382	18.92	1.10	3.45	23.47	30.00	6.53
4	149.714	20.85	1.35	1.41	23.61	30.00	6.39
5	182.151	21.11	1.53	1.00	23.64	30.00	6.36 *
6	214.493	21.45	1.50	0.02	22.97	30.00	7.03
7	246.864	23.07	1.66	3.33	28.05	37.00	8.95
8	279.222	24.60	1.73	2.30	28.64	37.00	8.36
9	327.722	14.59	1.98	8.11	24.69	37.00	12.31
10	424.799	16.50	2.27	5.57	24.34	37.00	12.66
11	521.903	18.73	2.48	4.28	25.49	37.00	11.51
12	618.985	20.92	2.81	2.97	26.70	37.00	10.30
13	716.088	21.40	3.08	1.76	26.24	37.00	10.76
14	813.168	23.08	3.31	1.10	27.49	37.00	9.51

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 182.151MHz with corrected signal level of 23.64dB μ V/m (limit is 30.0dB μ V/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 225°.
 4. 0° was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.



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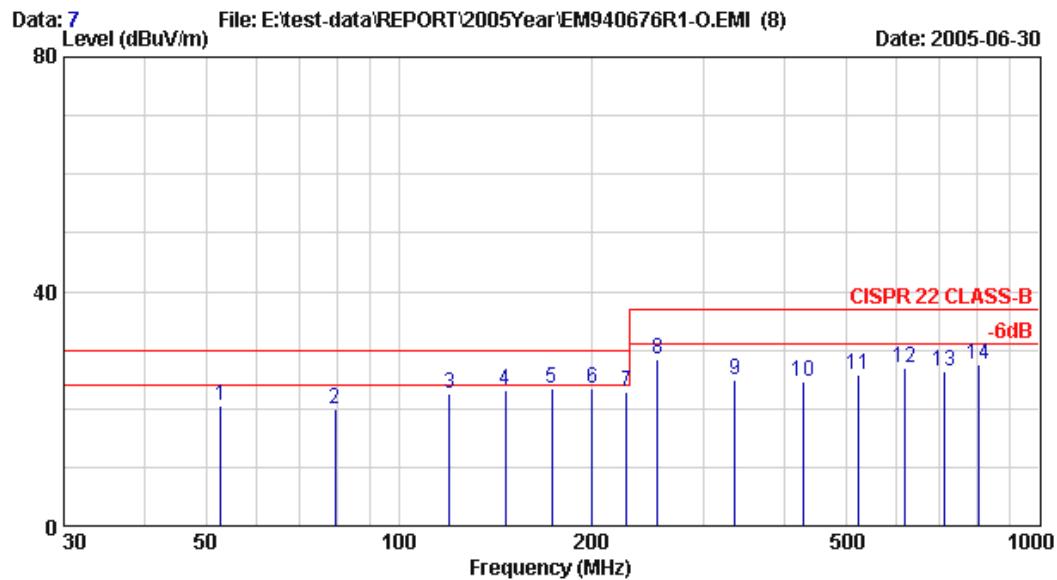
Site no. : NO.4 Open Site Data no. : 1
 Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
 Limit : CISPR 22 CLASS-B
 Env. / Ins. : 32°C / 52% EHSV 10 Engineer : Tony Chen
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac / 60Hz
 Test Mode : 1024*768 / 60Hz;48KHz(DVI-A)

Freq. (MHz)	Ant. Cable		Emission				
	Factor (dB/m)	Loss (dB)	Reading (dB μ V)	Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	
1	52.690	15.37	0.77	4.19	20.32	30.00	9.68
2	80.950	14.46	0.95	6.62	22.03	30.00	7.97
3	117.419	17.87	1.10	3.48	22.45	30.00	7.55
4	144.262	20.18	1.35	3.06	24.59	30.00	5.41 *
5	182.134	21.53	1.53	0.75	23.81	30.00	6.19
6	214.503	22.03	1.50	0.34	23.87	30.00	6.13
7	246.857	23.12	1.66	3.42	28.19	37.00	8.81
8	279.227	23.45	1.73	3.35	28.54	37.00	8.46
9	327.741	13.97	1.98	8.13	24.08	37.00	12.92
10	424.808	17.25	2.27	5.77	25.29	37.00	11.71
11	521.904	19.04	2.48	4.46	25.98	37.00	11.02
12	618.985	19.93	2.81	3.18	25.92	37.00	11.08
13	716.083	21.39	3.08	1.69	26.16	37.00	10.84
14	813.164	23.67	3.31	1.02	28.00	37.00	9.00

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 144.262MHz with corrected signal level of 24.59dB μ V/m (limit is 30.0dB μ V/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 135°.
 4. 0° was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.



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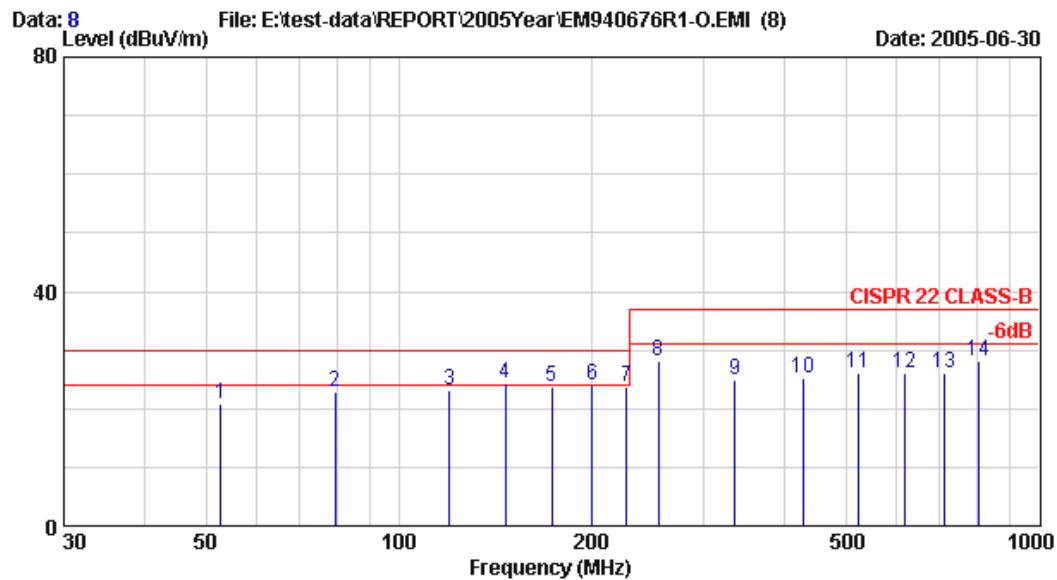
Site no. : NO.4 Open Site Data no. : 7
 Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
 Limit : CISPR 22 CLASS-B
 Env. / Ins. : 32°C / 52% EHSV 10 Engineer : Tony Chen
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac / 60Hz
 Test Mode : PIP

Freq. (MHz)	Ant. Cable		Emission				
	Factor (dB/m)	Loss (dB)	Reading (dB μ V)	Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	
1	52.794	15.12	0.77	4.62	20.51	30.00	9.49
2	79.624	13.86	0.94	5.11	19.91	30.00	10.09
3	119.897	18.97	1.11	2.55	22.63	30.00	7.37
4	146.729	20.67	1.35	1.18	23.19	30.00	6.81
5	173.580	21.22	1.38	0.83	23.43	30.00	6.57
6	200.417	21.20	1.62	0.64	23.46	30.00	6.54
7	227.271	22.12	1.56	-0.76	22.92	30.00	7.08
8	254.111	23.11	1.69	3.63	28.43	37.00	8.57
9	334.662	14.51	2.03	8.26	24.80	37.00	12.20
10	428.608	16.61	2.29	5.76	24.66	37.00	12.34
11	522.575	18.70	2.48	4.56	25.73	37.00	11.27
12	616.533	20.93	2.80	3.25	26.97	37.00	10.03
13	710.469	21.58	3.07	1.81	26.46	37.00	10.54
14	804.426	23.17	3.30	1.15	27.62	37.00	9.38

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : NO.4 Open Site Data no. : 8
 Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
 Limit : CISPR 22 CLASS-B
 Env. / Ins. : 32°C / 52% EHSV 10 Engineer : Tony Chen
 EUT : LCD TV M/N:15PF5120
 Power Rating : 120Vac / 60Hz
 Test Mode : PIP

Freq. (MHz)	Ant. Cable		Emission				
	Factor (dB/m)	Loss (dB)	Reading (dB μ V)	Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	
1	52.777	15.37	0.77	4.72	20.85	30.00	9.15
2	79.660	14.21	0.94	7.61	22.76	30.00	7.24
3	119.965	18.21	1.11	3.72	23.04	30.00	6.96
4	146.792	20.34	1.35	2.60	24.29	30.00	5.71
5	173.637	21.70	1.38	0.78	23.86	30.00	6.14
6	200.489	22.38	1.62	-0.11	23.90	30.00	6.10
7	227.316	23.47	1.56	-1.41	23.62	30.00	6.38
8	254.164	23.57	1.69	2.88	28.14	37.00	8.86
9	334.682	14.54	2.03	8.27	24.84	37.00	12.16
10	428.639	17.25	2.29	5.79	25.32	37.00	11.68
11	522.573	19.05	2.48	4.62	26.15	37.00	10.85
12	616.539	19.91	2.80	3.30	26.01	37.00	10.99
13	710.483	21.43	3.07	1.70	26.20	37.00	10.80
14	804.434	23.41	3.30	1.29	27.99	37.00	9.01

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

4. DEVIATION TO TEST SPECIFICATIONS

【NONE】

5. PHOTOGRAPHS

5.1. Photos of Powerline Conducted Measurement

Test Mode : DVI Input (“H” Pattern)



FRONT VIEW OF CONDUCTED TEST



BACK VIEW OF CONDUCTED TEST

Test Mode : DVI + RF Input (PIP Mode, "H" Pattern + "Color Bar" image)



FRONT VIEW OF CONDUCTED TEST



BACK VIEW OF CONDUCTED TEST

5.2. Photos of Radiated Measurement at Open Area Test Site

Test Mode : DVI Input (“H” Pattern)



FRONT VIEW OF RADIATED TEST



BACK VIEW OF RADIATED TEST

Test Mode : DVI + RF Input (PIP Mode, "H" Pattern + "Color Bar" image)



FRONT VIEW OF RADIATED TEST



BACK VIEW OF RADIATED TEST

Test Mode: DVI Input (“H” Pattern), 1024*768/60Hz, 48kHz



SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION