

APPLICATION FOR CERTIFICATION
(FCC CFR47 PART 15 DIGITAL DEVICE)

On Behalf of

LG Electronics USA

PLASMA MONITOR

Model : (1)MU-42PZ40 (2)P42W24B

FCC ID : BEJMU42PZ40

Brand : (1)LG (2)ZENITH

Prepared for : LG Electronics USA
6133 N River Rd., Suite 1100,
Rosemont IL US.

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Date of Report : Dec. 14, 2002

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TEST REPORT CERTIFICATION

Applicant : LG Electronics USA
 Manufacturer : LG Electronics Inc.
 FCC ID : BEJMU42PZ40
 EUT Description : PLASMA MONITOR
 (A) MODEL NO. : (1)MU-42PZ40 (2)P42W24B
 (B) SERIAL NO. : 210KT00001
 (C) BRAND : (1)LG (2)ZENITH
 (D) POWER SUPPLY : AC 120V, 60Hz

Measurement Procedure Used:

FCC RULES AND CISPR 22 (DOCKET NO. 92-152, SEP. 1993) AND
 FCC / ANSI C63.4-1992
 (FCC CFR 47, Part 15 Subpart B/2002 and CISPR 22/1997)

(NOTE : These results are deemed satisfactory evidence of compliance with
 ICES-003 of the Canadian Interference-Causing Equipment Regulations)

The device described above was tested by TAIWAN TOKIN EMC ENG. CORP. to determine
 the maximum emission levels emanating from the device. The maximum emission levels
 were compared to the CISPR 22 Class B limits both radiated and conducted emissions.

The measurement results are contained in this test report and TAIWAN TOKIN EMC ENG.
 CORP. 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 Taiwan Tokin EMC Eng. Corp.

Date of Test : Nov. 23 ~ Dec. 10, 2002

Prepared By: Cherry Wang 12/17/2002
 (Cherry Wang/Assistant Manager)

Test Engineer : Allen Wang Dec 17 2002
 (Allen Wang/Deputy Manager)

Approve & Authorized Signer : Jackie Deng 12/17/02
 (Jackie Deng/Assistant General Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	PLASMA MONITOR
Model Number	:	(1)MU-42PZ40 (2)P42W24B
		Above two models are identical, except for brand different. The model MU-42PZ40 is representative selected in the test and included in this report.
FCC ID	:	BEJMU42PZ40
Brand	:	(1)LG (2)ZENITH
Applicant	:	LG Electronics USA 6133 N River Rd., Suite 1100, Rosemont IL US.
Manufacturer	:	LG Electronics Inc. (Kumi TV Plant.) Kumi TV Plant. 642, Jinpyung-dong, Kumi-City, Kyoungsang Buk-do, 730-360, Korea
Scanning Frequency	:	Horizontal: 31kHz-64kHz Vertical: 56Hz-120Hz
Maximum Resolution	:	1280x1024@60Hz
Display Panel Module	:	LG, M/N PDP42WVSN4
Remote Control	:	LG, 6710V00092K
D-Sub Data Cable	:	Shielded, Detachable, 7.3m (to PC) Bonded two ferrite cores
DVI Data Cable	:	Shielded, Detachable, 2.0m (To PC) Bonded two ferrite cores
Speaker w/Stand (L, R) (Optional)	:	Speaker: LG, AP-42SA40 Wires: Non-Shielded, Detachable, 4.7m Bonded a ferrite core
Power Cord (AC IN)	:	Non-Shielded, Detachable, 3.0m

Date of Receipt of Sample : Nov. 15, 2002

Date of Test : Nov. 23 ~ Dec. 10, 2002

1.2. Tested Supporting System Details

1.2.1. PC SYSTEM

Model Number : HP VECTRA XE320

Serial Number : SG21102000

FCC ID : By DoC

BSMI ID : 3912A318

Brand : HP

Manufacturer : First International Computer, Inc.

VGA Card : Unitch, M/N Radion VE
P/N UV-010004, FCC By DoC

RS232 Cable : Non-Shielded, Detachable, 1.8m (to EUT)

Audio In Cable : Non-Shielded, Detachable, 1.5m (to EUT)

Power Cord : Non-Shielded, Detachable, 1.8m

1.2.2. 15" LCD MONITOR (LINK TO EUT)

Model Number : D5063M

Serial Number : CN206A6013

FCC ID : By DoC

BSMI ID : R33037

Manufacturer : Top Victory Electronics (Fujian) Co., Ltd.

Data Cable (D-Sub) : Shielded, Detachable, 1.8m
Bonded two ferrite cores

AC Adapter : Delta, M/N ADP-40TB
BSMI ID 3892D142
Cord: Shielded, Undetachable, 1.8m
Bonded a ferrite core

Power Cord : Non-Shielded, Detachable, 1.8m

1.2.3. DOT MATRIX PRINTER

Model Number : KX-P2135

Serial Number : 8DMCNC02116

FCC ID : ACJ5Z6KX-P2135

BSMI ID : 3872A371

Manufacturer : Matsushita (Brand: Panasonic)

Data Cable : Shielded, Detachable, 1.5m

Power Cord : Non-Shielded, Undetachable, 1.8m

1.2.4. KEYBOARD

Model Number	:	SK-2502C
Serial Number	:	M020235979
FCC ID	:	By DoC
BSMI ID	:	3872F107
Manufacturer	:	Silitek (Brand: HP)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.5. MODEM

Model Number	:	DM-1414
Serial Number	:	980034388
FCC ID	:	IFAXDM1414
Manufacturer	:	Aceex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, Model AM-91000A Non-Shielded, Undetachable, 1.8m

1.2.6. MOUSE

Model Number	:	M-S48a
Serial Number	:	LZE20501583
FCC ID	:	JNZ201213
BSMI ID	:	4882A001
Manufacturer	:	Logitech (Brand: HP)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.7. USB MOUSE #1

Model Number	:	CREUBB
Serial Number	:	N/A
FCC ID	:	NHM-CREUBE
BSMI ID	:	3872F083
Manufacturer	:	CRE Technology Co., Ltd.
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.8. USB MOUSE #2

Model Number	:	CREUBB
Serial Number	:	N/A
FCC ID	:	NHM-CREUBE
BSMI ID	:	3872F083
Manufacturer	:	CRE Technology Co., Ltd.
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.9. MICROPHONE

Model Number	:	DM-5E
Serial Number	:	N/A
Manufacturer	:	Kinyo
Data Cable	:	Non-Shielded, Detachable, 4.2m

1.2.10. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08562
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.11. 10/100 FAST ETHERNET SWITCH (HUB)

Model Number	:	DES-1005D
Serial Number	:	0212G1A06039
FCC ID	:	By DoC
Manufacturer	:	D-Link
LAN Cable	:	Non-Shielded, Detachable, 1.8m
AC-DC Adapter	:	DVE, M/N DV-0751AS
		Cord: Non-Shielded, Undetachable, 1.8m

1.2.12. COLOR TV PATTERN GENERATOR (FOR RADIATED TEST, LINK TO EUT)

Model Number	:	PM 5418 TDSI+Y/C
Serial Number	:	LO646252
Manufacturer	:	Philips
Cal. Date	:	Jul. 23, 2002
S-Video Cable	:	Non-Shielded, Detachable, 1.5m
A/V Cable	:	Non-Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.13. COLOR TV PATTERN GENERATOR (FOR CONDUCTED TEST, LINK TO EUT)

Model Number	:	PM 5415TX+Y/C
Serial Number	:	LO732610
Manufacturer	:	Fluke
Cal. Date	:	Apr. 18, 2002
S-Video Cable	:	Non-Shielded, Detachable, 1.8m
A/V Cable	:	Non-Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.14. DVD PLAYER

Model Number	:	DV9003S
Serial Number	:	91071060
Manufacturer	:	Top Soution Technology Co., Ltd.
Audio Cable	:	Non-Shielded, Detachable, 1.8m
Component-A/V Cable	:	Non-Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.5m

1.2.15. REMOTE CONTROL DATA CABLE (TO EUT)

Remote Control Cable	:	Non-Shielded, Detachable, 1.2m
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1.3. Description of Test Facility

Site Description (Semi-Anechoic Chamber)	:	May 16, 2000 Re-file on Federal Communication Commission Registration Number: 90993
Site Description (No. 6 Open Site)	:	Aug. 10, 2000 File on Federal Communication Commission Registration Number: 98448
Name of Firm	:	Taiwan Tokin EMC Eng. Corp.
Site Location #1	:	No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C.
Site Location #2	:	No. 67-4, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C.
NVLAP Lab Code	:	200077-0
DAR- Registration No.	:	DAT-P-092/99-00e

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150KHz~30MHz	±2.66dB
Radiation Test (Distance: 10m)	30MHz~300MHz	+4.5dB / -4.5dB
	300MHz~1000MHz	+3.88dB / -3.84dB
Radiation Test (Distance: 3m)	30MHz~300MHz	+4.26dB / -4.22dB
	300MHz~1000MHz	+5.28dB / -4.0dB

Remark : Uncertainty = $K\mu c(y)$

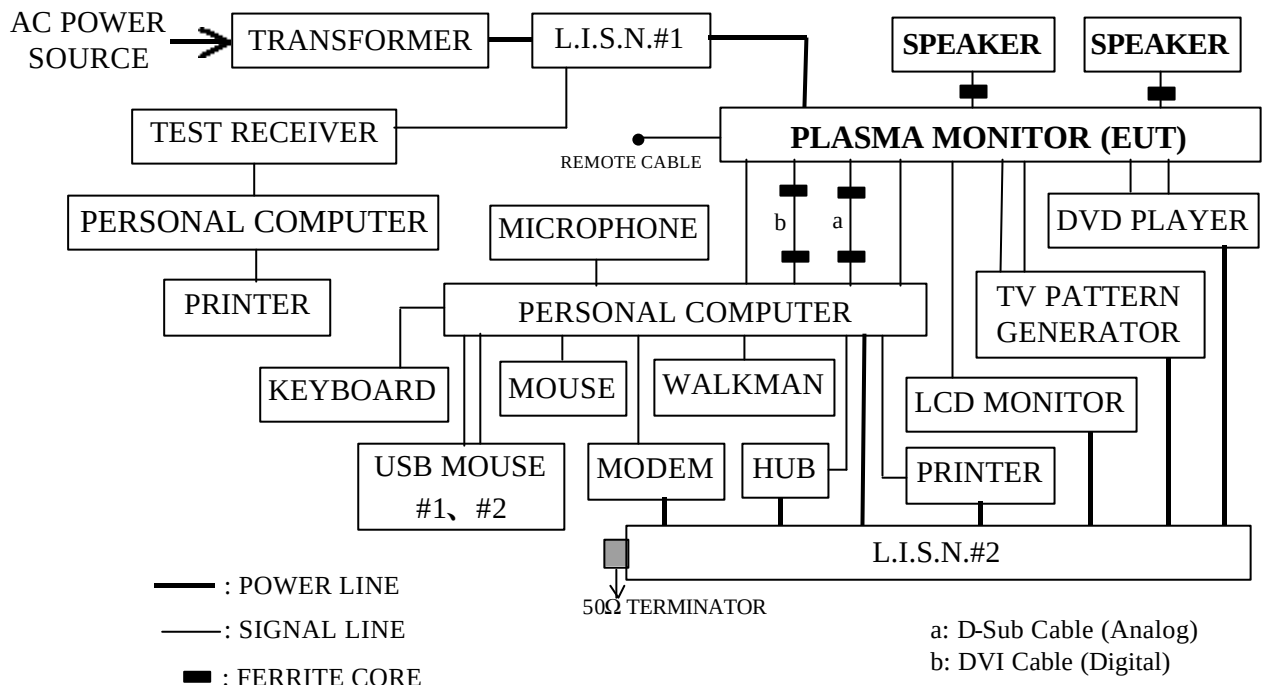
2. POWERLINE CONDUCTED TEST

2.1. Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	844591/015	Feb. 27, 02'	1 Year
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-1430-5	Nov.18, 02'	1 Year
3.	L.I.S.N. #2	Kyoritsu	KNW-407	8-1430-6	Nov.18, 02'	1 Year

2.2. Block Diagram of Test Setup



2.3. Conducted Powerline Emission Limit (CISPR 22, Class B)

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

Remark: 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.

2.4. EUT's Configuration during Compliance Measurement

The following equipment 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. PLASMA MONITOR(EUT)

Model Number	:	MU-42PZ40
Serial Number	:	210KT00001
Brand	:	LG
FCC ID	:	BEJMU42PZ40
Manufacturer	:	LG Electronics Inc. (Kumi TV Plant.)
Display Panel Module	:	LG, M/N PDP42WVSN4
Remote Control	:	LG, 6710V00092K
D-Sub Data Cable	:	Shielded, Detachable, 7.3m (to PC) Bonded two ferrite cores
DVI Data Cable	:	Shielded, Detachable, 2.0m (To PC) Bonded two ferrite cores
Speaker w/Stand (L, R) (Optional)	:	Speaker: LG, AP-42SA40 Wires: Non-Shielded, Detachable, 4.7m Bonded a ferrite core
Power Cord (AC IN)	:	Non-Shielded, Detachable, 3.0m

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 equipment.
- 2.5.3. The Personal system read data from disk.
- 2.5.4. The Personal system running the EMI self-test program "IBM H PATTERN" and sent the "H" characters to PLASMA MONITOR (EUT), and then the screen of PLASMA MONITOR (EUT) displayed "H" patterns by EUT's resolution via RGB1/D-Sub or RGB2/DVI input.
- 2.5.5. The DVD Player played a DVD Movie and sent the image & sound to the PLASMA MONITOR (EUT) via Component input and Audio input.
- 2.5.6. The LCD Monitor was displayed "H" pattern through EUT's RGB1 Output and RGB1 Input.
- 2.5.7. The TV Pattern Generator sent the "Color Bar" image to PLASMA MONITOR(EUT), then the screen of PLASMA MONITOR(EUT) displayed image via S-Video or A/V input.
- 2.5.8. The PLASMA MONITOR (EUT) displayed character "H" and image "Color Bar" at the same time in the PIP (Picture in Picture) mode testing.
- 2.5.9. The other peripheral devices were driven and operated in turn during all testing.

2.6. Test Procedure

The EUT was put on table which was above the ground by 80cm and its power was connected to the power mains through a line impedance stabilization network (L.I.S.N. #1) and the other peripheral devices power cord were connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). This provided a 50 Ω 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 equipment and all of the interface cables were changed according to FCC ANSI C63.4-1992 on conducted measurement.

The bandwidth of the R&S Test Receiver ESHS10 was set at 10KHz.

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

2.7. Line Conducted RF Voltage Measurement Results

PASSED. Please refer to the following pages.

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

EUT with the following test modes and with AC 120V/60Hz supplying voltage were performed during conducted testing and all the test results are attached in next pages.

(Test Date: Nov. 23, 2002 Temperature: 24°C Humidity: 66%)

No.	Input Port	Display of EUT	Reference Test Data #
1.	RGB 1 Input/ D-Sub	Character "H", 640*480/75Hz, 38kHz	# 13 (14, 15); # 16 (17, 18).
2.	RGB 1 Input/ D-Sub	Character "H", 1024*768/75Hz, 60kHz	# 10 (11, 12); # 7 (8, 9).
3.	RGB 1 Input/ D-Sub	Character "H", 1280*1024/60Hz, 64kHz	# 1 (2, 3); # 4 (5, 6).
4.	RGB 2 Input/ DVI	Character "H", 800*600/60Hz, 38kHz	# 22 (23, 24); # 19 (20, 21).
5.	RGB 2 Input/ DVI	Character "H", 1024*768/60Hz, 48kHz	# 25 (26, 27); # 28 (29, 30).
6.	RGB 2 Input/ DVI	Character "H", 1280*1024/60Hz, 64kHz	# 34 (35, 36); # 31 (32, 33).
7.	A/V Input	Image "Color Bar"	# 49 (50, 51); # 52 (53, 54).
8.	S-Video Input	Image "Color Bar"	# 46 (47, 48); # 43 (44, 45).
9.	Component Input (DVD)	Image "DVD Movie"	# 37 (38, 39); # 40 (41, 42).
10.	D-Sub + A/V Inputs (PIP)	Character "H" + Image "Color Bard"	# 58 (59, 60); # 55 (56, 57).



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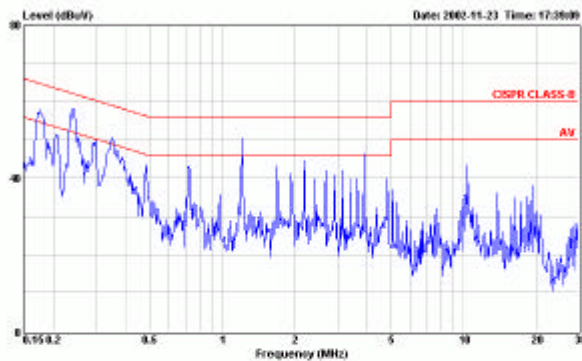
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Data#: 13 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 640*480/75Hz 38KHz (RGB1)

Data#: 14 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 17:40:52

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 640*480/75Hz 38KHz (RGB1)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.176	56.53	-8.14	64.67	56.09	0.24	0.20	CP
2	0.241	57.69	-4.38	62.07	57.32	0.17	0.20	CP
3	0.352	45.72	-13.20	58.92	45.40	0.12	0.20	CP
4	1.208	49.26	-6.74	56.00	48.76	0.10	0.40	CP
5	3.869	47.24	-8.76	56.00	46.74	0.10	0.40	CP
6	10.402	42.15	-17.85	60.00	41.34	0.11	0.70	CP

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.176	50.98	-3.69	54.67	50.54	0.24	0.20	Average
2	0.241	46.98	-5.09	52.07	46.61	0.17	0.20	Average
3	0.352	33.96	-14.96	48.92	33.64	0.12	0.20	Average
4	1.208	36.66	-9.34	46.00	36.16	0.10	0.40	Average
5	3.869	34.66	-11.34	46.00	34.16	0.10	0.40	Average
6	10.402	28.46	-21.54	50.00	27.65	0.11	0.70	Average



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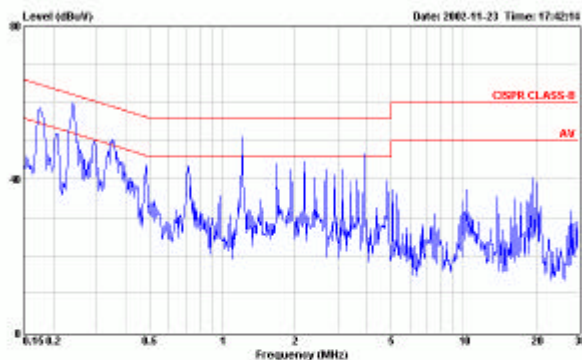
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Data#: 16 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 640*480/75Hz 38KHz (RGB1)

Data#: 17 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 17:42:51

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 640*480/75Hz 38KHz (RGB1)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.174	56.60	-8.18	64.78	56.15	0.25	0.20	CP
2	0.240	57.22	-4.87	62.09	56.85	0.17	0.20	CP
3	0.351	45.48	-13.47	58.95	45.16	0.12	0.20	CP
4	1.208	50.20	-5.80	56.00	49.70	0.10	0.40	CP
5	3.870	46.96	-9.04	56.00	46.46	0.10	0.40	CP
6	10.402	35.74	-24.26	60.00	34.84	0.20	0.70	CP

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.174	50.30	-4.48	54.78	49.85	0.25	0.20	Average
2	0.240	46.34	-5.75	52.09	45.97	0.17	0.20	Average
3	0.351	33.28	-15.67	48.95	32.96	0.12	0.20	Average
4	1.208	37.64	-8.36	46.00	37.14	0.10	0.40	Average
5	3.870	34.30	-11.70	46.00	33.80	0.10	0.40	Average
6	10.402	22.70	-27.30	50.00	21.80	0.20	0.70	Average



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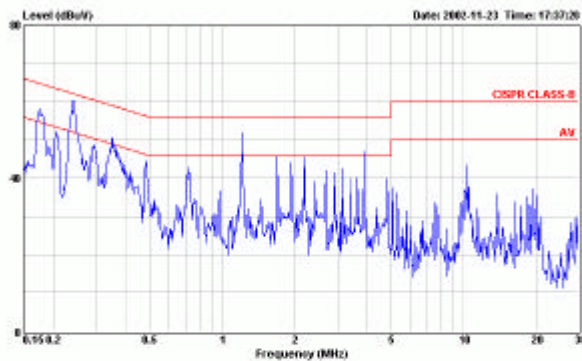
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Data#: 10 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1024*768/75Hz 60KHz (RGB1)

Data#: 11 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 17:37:54

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1024*768/75Hz 60KHz (RGB1)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.177	55.71	-8.92	64.63	55.27	0.24	0.20	CP
2	0.242	58.13	-3.89	62.02	57.76	0.17	0.20	CP
3	0.349	44.09	-14.91	59.00	43.77	0.12	0.20	CP
4	1.210	50.40	-5.60	56.00	49.90	0.10	0.40	CP
5	3.871	47.18	-8.82	56.00	46.68	0.10	0.40	CP
6	10.402	42.39	-17.61	60.00	41.58	0.11	0.70	CP

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.177	50.54	-4.09	54.63	50.10	0.24	0.20	Average
2	0.242	45.93	-6.09	52.02	45.56	0.17	0.20	Average
3	0.349	31.81	-17.19	49.00	31.49	0.12	0.20	Average
4	1.210	36.57	-9.43	46.00	36.07	0.10	0.40	Average
5	3.871	34.96	-11.04	46.00	34.46	0.10	0.40	Average
6	10.402	28.93	-21.07	50.00	28.12	0.11	0.70	Average



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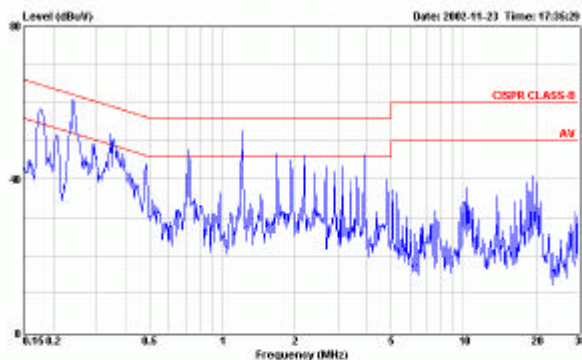
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,
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Data#: 7 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1024*768/75Hz 60KHz (RGB1)

Data#: 8 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 17:35:42

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1024*768/75Hz 60KHz (RGB1)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.177	55.48	-9.16	64.64	55.04	0.24	0.20	CP
2	0.241	58.31	-3.75	62.06	57.94	0.17	0.20	CP
3	0.351	44.64	-14.30	58.94	44.32	0.12	0.20	CP
4	1.209	51.41	-4.59	56.00	50.91	0.10	0.40	CP
5	3.869	46.80	-9.20	56.00	46.30	0.10	0.40	CP
6	10.404	35.48	-24.52	60.00	34.58	0.20	0.70	CP

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.177	50.56	-4.08	54.64	50.12	0.24	0.20	Average
2	0.241	46.93	-5.13	52.06	46.56	0.17	0.20	Average
3	0.351	33.89	-15.05	48.94	33.57	0.12	0.20	Average
4	1.209	38.13	-7.87	46.00	37.63	0.10	0.40	Average
5	3.869	34.59	-11.41	46.00	34.09	0.10	0.40	Average
6	10.404	22.80	-27.20	50.00	21.90	0.20	0.70	Average



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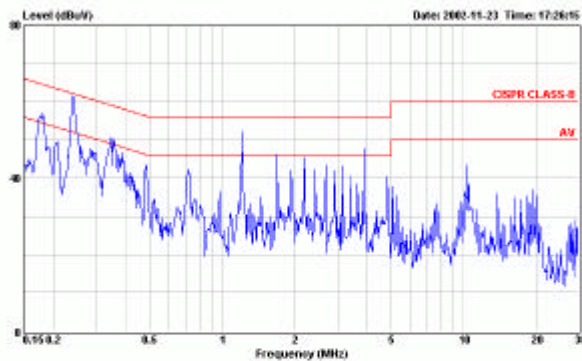
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,
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Data# 1 File# D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1280*1024/60Hz 64KHz (R8B1)

Data# 2 File# D:\LG-G911115.EMI

Date: 2002-11-23 Time: 17:29:33

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1280*1024/60Hz 64KHz (R8B1)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.178	55.09	-9.48	64.57	54.65	0.24	0.20	CP
2	0.242	58.26	-3.78	62.04	57.89	0.17	0.20	CP
3	0.345	44.38	-14.70	59.08	44.66	0.12	0.20	CP
4	1.209	50.16	-5.84	56.00	49.66	0.10	0.40	CP
5	3.870	47.67	-8.33	56.00	47.17	0.10	0.40	CP
6	10.404	41.49	-18.51	60.00	40.68	0.11	0.70	CP

Data# 3 File# D:\LG-G911115.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.178	50.11	-4.46	54.57	49.67	0.24	0.20	Average
2	0.242	47.30	-4.74	52.04	46.93	0.17	0.20	Average
3	0.345	31.68	-17.40	49.08	31.36	0.12	0.20	Average
4	1.209	37.18	-8.82	46.00	36.68	0.10	0.40	Average
5	3.870	34.40	-11.60	46.00	33.90	0.10	0.40	Average
6	10.404	26.82	-23.18	50.00	26.01	0.11	0.70	Average



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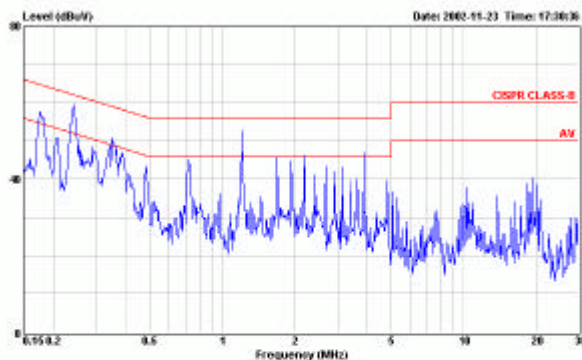
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,
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Email:ttcemo@ttcemo.com.tw

Data# 4 File# D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1280*1024/60Hz 64KHz (R8B1)

Data# 5 File# D:\LG-G911115.EMI

Date: 2002-11-23 Time: 17:31:47

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1280*1024/60Hz 64KHz (R8B1)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.178	56.55	-8.04	64.59	56.11	0.24	0.20	CP
2	0.241	58.09	-3.97	62.06	57.72	0.17	0.20	CP
3	0.348	44.17	-14.85	59.02	43.85	0.12	0.20	CP
4	1.209	50.78	-5.22	56.00	50.28	0.10	0.40	CP
5	3.870	47.46	-8.54	56.00	46.96	0.10	0.40	CP
6	10.404	35.76	-24.24	60.00	34.86	0.20	0.70	CP

Data# 6 File# D:\LG-G911115.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.178	50.18	-4.41	54.59	49.74	0.24	0.20	Average
2	0.241	46.88	-5.18	52.06	46.51	0.17	0.20	Average
3	0.348	29.95	-19.07	49.02	29.63	0.12	0.20	Average
4	1.209	37.74	-8.26	46.00	37.24	0.10	0.40	Average
5	3.870	34.57	-11.43	46.00	34.07	0.10	0.40	Average
6	10.404	21.80	-28.20	50.00	20.90	0.20	0.70	Average



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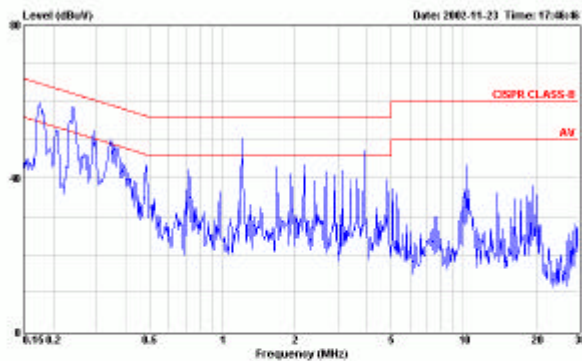
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,
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Data#: 22 File#: D:\LG-G911115.KMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 800*600/60Hz 38KHz (RGB2)

Data#: 23 File#: D:\LG-G911115.KMI

Date: 2002-11-23 Time: 17:47:17

Freq	Level	Over Limit		Read Level	Probe Factor	Cable Loss	Remark
		Limit	Line				
MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.175	58.01	-6.71	64.72	0.25	0.20	QP
2	0.240	57.18	-4.92	62.10	0.17	0.20	QP
3	0.340	43.35	-15.86	59.21	0.12	0.20	QP
4	1.210	49.02	-6.98	56.00	0.10	0.40	QP
5	3.869	47.14	-8.86	56.00	0.10	0.40	QP
6	10.404	42.01	-17.99	60.00	0.11	0.70	QP

Data#: 24 File#: D:\LG-G911115.KMI

Freq	Level	Over Limit		Read Level	Probe Factor	Cable Loss	Remark
		Limit	Line				
MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.175	51.40	-3.32	54.72	0.25	0.20	Average
2	0.240	46.58	-5.52	52.10	0.17	0.20	Average
3	0.340	31.23	-17.98	49.21	0.12	0.20	Average
4	1.210	36.31	-9.49	46.00	0.10	0.40	Average
5	3.869	34.84	-11.16	46.00	0.10	0.40	Average
6	10.404	29.76	-20.24	50.00	0.11	0.70	Average



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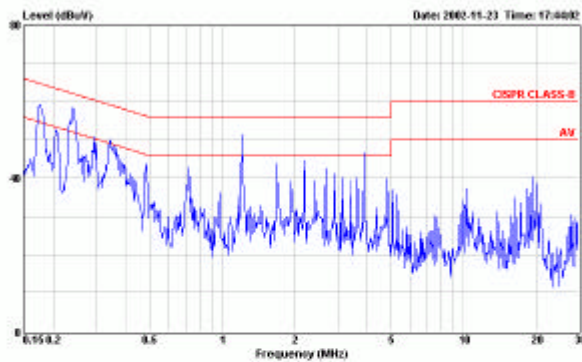
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,
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Data#: 19 File#: D:\LG-G911115.KMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 800*600/60Hz 38KHz (RGB2)

Data#: 20 File#: D:\LG-G911115.KMI

Date: 2002-11-23 Time: 17:45:10

Freq	Level	Over Limit		Read Level	Probe Factor	Cable Loss	Remark
		Limit	Line				
MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.175	57.91	-6.82	64.73	0.25	0.20	QP
2	0.241	57.32	-4.73	62.05	0.17	0.20	QP
3	0.343	43.47	-15.67	59.14	0.12	0.20	QP
4	1.208	50.28	-5.72	56.00	0.10	0.40	QP
5	3.869	46.74	-9.26	56.00	0.10	0.40	QP
6	10.404	35.02	-24.98	60.00	0.11	0.70	QP

Data#: 21 File#: D:\LG-G911115.KMI

Freq	Level	Over Limit		Read Level	Probe Factor	Cable Loss	Remark
		Limit	Line				
MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.175	51.22	-3.51	54.73	0.25	0.20	Average
2	0.241	45.94	-6.11	52.05	0.17	0.20	Average
3	0.343	30.97	-18.17	49.14	0.12	0.20	Average
4	1.208	37.85	-8.15	46.00	0.10	0.40	Average
5	3.869	34.49	-11.51	46.00	0.10	0.40	Average
6	10.404	23.41	-26.59	50.00	0.11	0.70	Average



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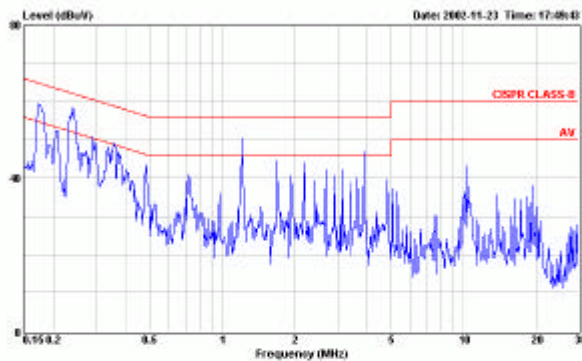
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Data#: 25 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1024*768/60Hz 48KHz (RGB2)

Data#: 26 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 17:49:46

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1024*768/60Hz 48KHz (RGB2)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.175	58.51	-6.22	64.73	58.06	0.25	0.20	CP
2	0.243	57.04	-4.97	62.01	56.67	0.17	0.20	CP
3	0.337	42.64	-16.63	59.27	42.31	0.13	0.20	CP
4	1.209	49.32	-6.68	56.00	48.82	0.10	0.40	CP
5	3.869	46.84	-9.16	56.00	46.34	0.10	0.40	CP
6	10.402	42.25	-17.75	60.00	41.44	0.11	0.70	CP

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.175	51.57	-3.16	54.73	51.12	0.25	0.20	Average
2	0.243	45.91	-6.10	52.01	45.54	0.17	0.20	Average
3	0.337	27.67	-21.60	49.27	27.34	0.13	0.20	Average
4	1.209	37.50	-8.50	46.00	37.00	0.10	0.40	Average
5	3.869	35.69	-10.31	46.00	35.19	0.10	0.40	Average
6	10.402	30.24	-19.76	50.00	29.43	0.11	0.70	Average



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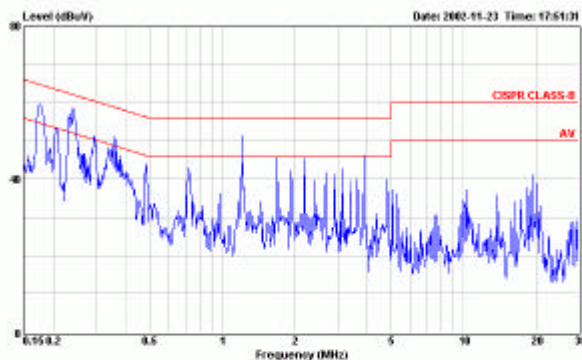
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Data#: 28 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1024*768/60Hz 48KHz (RGB2)

Data#: 29 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 17:52:06

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1024*768/60Hz 48KHz (RGB2)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.175	58.21	-6.51	64.72	57.76	0.25	0.20	CP
2	0.242	56.98	-5.03	62.03	56.61	0.17	0.20	CP
3	0.337	42.64	-16.63	59.27	42.31	0.13	0.20	CP
4	1.209	50.12	-5.88	56.00	49.62	0.10	0.40	CP
5	3.869	46.50	-9.50	56.00	46.00	0.10	0.40	CP
6	10.401	35.62	-24.38	60.00	34.72	0.20	0.70	CP

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.175	51.17	-3.55	54.72	50.72	0.25	0.20	Average
2	0.242	45.85	-6.18	52.03	45.48	0.17	0.20	Average
3	0.337	27.23	-22.04	49.27	26.90	0.13	0.20	Average
4	1.209	38.31	-7.69	46.00	37.81	0.10	0.40	Average
5	3.869	35.19	-10.81	46.00	34.69	0.10	0.40	Average
6	10.401	23.63	-26.37	50.00	22.73	0.20	0.70	Average



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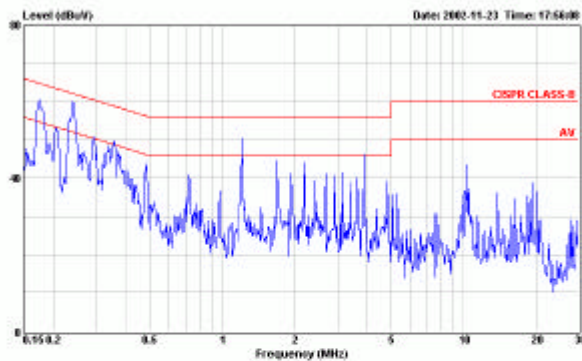
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Data#: 34 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1280*1024/60Hz 64KHz (RGB2)

Data#: 35 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 17:56:56

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1280*1024/60Hz 64KHz (RGB2)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.173	57.87	-6.93	64.80	57.42	0.25	0.20	CP
2	0.242	57.14	-4.89	62.03	56.77	0.17	0.20	CP
3	0.336	42.68	-16.62	59.30	42.35	0.13	0.20	CP
4	1.210	48.90	-7.10	56.00	48.40	0.10	0.40	CP
5	3.870	47.16	-8.84	56.00	46.66	0.10	0.40	CP
6	10.401	42.37	-17.63	60.00	41.56	0.11	0.70	CP

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.173	50.95	-3.85	54.80	50.50	0.25	0.20	Average
2	0.242	45.96	-6.07	52.03	45.39	0.17	0.20	Average
3	0.336	27.01	-22.29	49.30	26.68	0.13	0.20	Average
4	1.210	37.01	-8.99	46.00	36.51	0.10	0.40	Average
5	3.870	35.95	-10.05	46.00	35.45	0.10	0.40	Average
6	10.401	30.21	-19.79	50.00	29.40	0.11	0.70	Average



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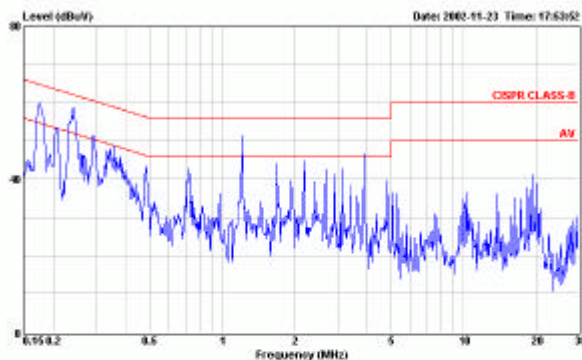
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,
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Data#: 31 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1280*1024/60Hz 64KHz (RGB2)

Data#: 32 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 17:54:53

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 1280*1024/60Hz 64KHz (RGB2)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.173	57.91	-6.89	64.80	57.46	0.25	0.20	CP
2	0.242	56.96	-5.07	62.03	56.59	0.17	0.20	CP
3	0.336	42.56	-16.78	59.30	42.23	0.13	0.20	CP
4	1.209	50.08	-5.92	56.00	49.58	0.10	0.40	CP
5	3.870	46.78	-9.22	56.00	46.28	0.10	0.40	CP
6	10.402	35.72	-24.28	60.00	34.82	0.20	0.70	CP

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.173	50.76	-4.04	54.80	50.31	0.25	0.20	Average
2	0.242	45.85	-6.18	52.03	45.48	0.17	0.20	Average
3	0.336	26.66	-22.68	49.30	26.33	0.13	0.20	Average
4	1.209	38.21	-7.79	46.00	37.71	0.10	0.40	Average
5	3.870	35.42	-10.58	46.00	34.92	0.10	0.40	Average
6	10.402	23.63	-26.37	50.00	22.73	0.20	0.70	Average



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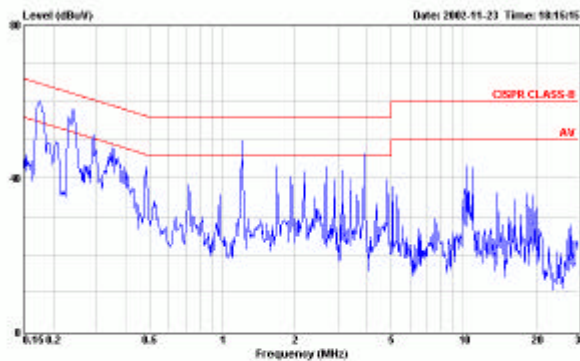
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Data#: 49 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : AV IN

Data#: 50 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 18:16:26

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : AV IN

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.173	57.61	-7.20	64.81	57.16	0.25	0.20
2	0.242	56.90	-5.14	62.04	56.93	0.17	0.20
3	0.293	50.56	-9.89	60.45	50.21	0.15	0.20
4	1.208	48.80	-8.00	56.80	47.90	0.10	0.40
5	3.869	47.58	-8.42	56.00	47.08	0.10	0.40
6	10.402	38.85	-21.15	60.00	38.04	0.11	0.70

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.173	47.55	-7.26	54.81	47.10	0.25	0.20 Average
2	0.242	44.55	-7.49	52.04	44.18	0.17	0.20 Average
3	0.293	40.56	-9.89	50.45	40.21	0.15	0.20 Average
4	1.208	41.00	-5.00	46.00	40.90	0.10	0.40 Average
5	3.869	40.58	-5.42	46.00	40.08	0.10	0.40 Average
6	10.402	31.85	-18.15	50.00	31.04	0.11	0.70 Average



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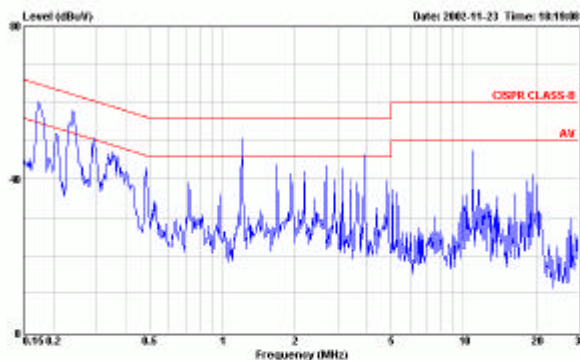
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Data#: 52 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : AV IN

Data#: 53 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 18:19:11

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : AV IN

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.176	58.45	-6.24	64.69	58.00	0.25	0.20
2	0.241	57.31	-4.56	62.07	57.14	0.17	0.20
3	0.292	47.95	-12.50	60.45	47.60	0.15	0.20
4	1.208	49.78	-6.22	56.00	49.28	0.10	0.40
5	3.869	46.88	-9.12	56.00	46.38	0.10	0.40
6	10.402	32.77	-27.23	60.00	31.87	0.20	0.70

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.176	51.15	-3.54	54.69	50.70	0.25	0.20 Average
2	0.241	45.69	-6.38	52.07	45.32	0.17	0.20 Average
3	0.292	40.93	-9.52	50.45	40.58	0.15	0.20 Average
4	1.208	38.30	-7.70	46.00	37.80	0.10	0.40 Average
5	3.869	34.83	-11.17	46.00	33.53	0.10	0.40 Average
6	10.402	20.62	-29.38	50.00	19.72	0.20	0.70 Average



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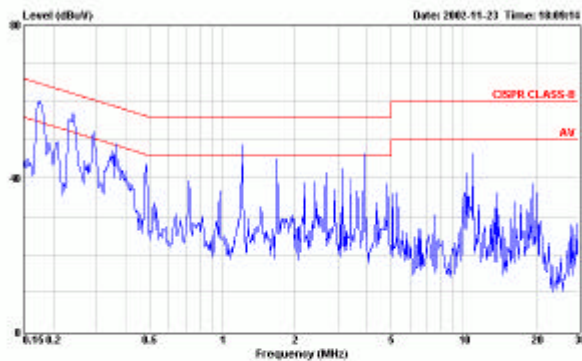
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Data#: 46 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 8 IN

Data#: 47 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 18:09:22

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 8 IN

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.176	57.62	-7.06	64.68	57.18	0.24	0.20
2	0.243	54.12	-7.88	62.00	53.75	0.17	0.20
3	0.338	41.62	-17.64	59.26	41.30	0.12	0.20
4	1.210	48.08	-7.92	56.00	47.98	0.10	0.40
5	3.870	46.28	-9.72	56.00	45.78	0.10	0.40
6	10.403	41.47	-18.53	60.00	40.66	0.11	0.70

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.176	46.62	-8.06	54.68	46.18	0.24	0.20
2	0.243	43.12	-8.88	52.00	42.75	0.17	0.20
3	0.338	33.62	-15.64	49.26	33.30	0.12	0.20
4	1.210	41.08	-4.92	46.00	40.98	0.10	0.40
5	3.870	38.28	-7.72	46.00	37.78	0.10	0.40
6	10.403	29.47	-20.53	50.00	28.66	0.11	0.70



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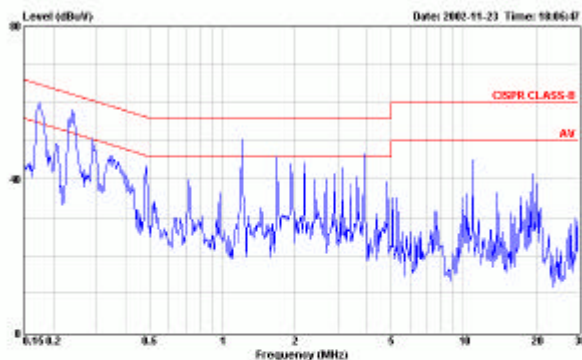
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Data#: 43 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 8 IN

Data#: 44 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 18:05:56

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : 8 IN

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.173	58.53	-6.26	64.79	58.08	0.25	0.20
2	0.242	57.12	-4.92	62.04	56.75	0.17	0.20
3	0.333	40.63	-18.74	59.37	40.30	0.13	0.20
4	1.209	50.90	-5.50	56.00	50.00	0.10	0.40
5	3.870	47.22	-8.78	56.00	46.72	0.10	0.40
6	10.403	35.08	-24.92	60.00	34.18	0.20	0.70

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.173	51.07	-3.72	54.79	50.62	0.25	0.20
2	0.242	46.26	-5.78	52.04	45.89	0.17	0.20
3	0.333	27.78	-21.59	49.37	27.45	0.13	0.20
4	1.209	38.28	-7.72	46.00	37.78	0.10	0.40
5	3.870	36.82	-9.98	46.00	35.52	0.10	0.40
6	10.403	23.37	-26.63	50.00	22.47	0.20	0.70



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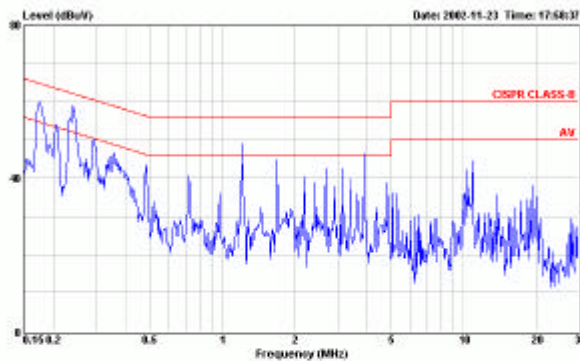
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,
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Data#: 37 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : DVD PLAY

Data#: 38 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 18:00:11

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : DVD PLAY

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.174	57.83	-6.95	64.78	57.38	0.25	0.20
2	0.242	56.82	-5.20	62.02	56.45	0.17	0.20
3	0.335	41.22	-18.12	59.34	40.89	0.13	0.20
4	1.210	47.93	-8.07	56.00	47.43	0.10	0.40
5	3.869	46.88	-9.12	56.00	46.38	0.10	0.40
6	10.401	41.39	-18.61	60.00	40.58	0.11	0.70

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.174	51.19	-3.59	54.78	50.74	0.25	0.20
2	0.242	45.93	-6.09	52.02	45.56	0.17	0.20
3	0.335	26.98	-22.36	49.34	26.65	0.13	0.20
4	1.210	37.29	-8.71	46.00	36.79	0.10	0.40
5	3.869	35.86	-10.14	46.00	35.36	0.10	0.40
6	10.401	31.16	-18.84	50.00	30.35	0.11	0.70



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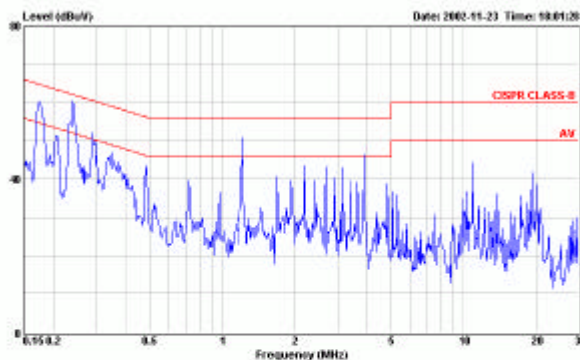
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Data#: 40 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : DVD PLAY

Data#: 41 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 18:02:09

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : DVD PLAY

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.175	58.19	-6.52	64.71	57.74	0.25	0.20
2	0.243	57.20	-4.80	62.00	56.83	0.17	0.20
3	0.335	41.14	-18.19	59.33	40.81	0.13	0.20
4	1.209	49.32	-6.68	56.00	48.82	0.10	0.40
5	3.869	47.04	-8.96	56.00	46.54	0.10	0.40
6	10.402	35.48	-24.52	60.00	34.38	0.20	0.70

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
	MHz	dBuV	dB	dBuV	dB		dB
1	0.175	51.05	-3.66	54.71	50.60	0.25	0.20
2	0.243	46.07	-5.93	52.00	45.70	0.17	0.20
3	0.335	26.59	-22.74	49.33	26.26	0.13	0.20
4	1.209	38.59	-7.61	46.00	37.89	0.10	0.40
5	3.869	35.87	-10.13	46.00	35.37	0.10	0.40
6	10.402	22.74	-27.26	50.00	21.84	0.20	0.70



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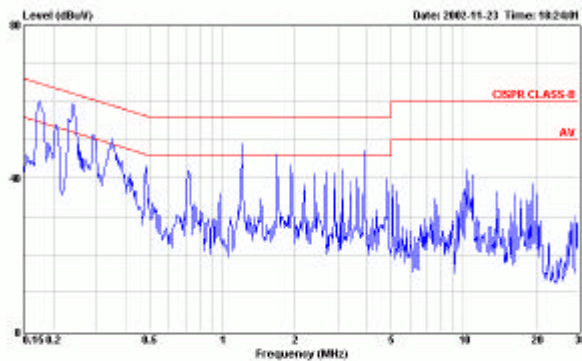
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Data#: 58 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : PIP

Data#: 59 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 18:24:13

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 LINE
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : PIP

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
			dB	dBuV	dB		dB
1	0.175	58.55	-6.15	64.70	58.10	0.25	0.20
2	0.244	56.74	-5.23	61.97	56.37	0.17	0.20
3	0.289	48.49	-12.06	60.55	48.14	0.15	0.20
4	1.208	49.20	-6.80	56.00	48.70	0.10	0.40
5	3.871	47.12	-8.88	56.00	46.62	0.10	0.40
6	10.402	41.57	-18.43	60.00	40.76	0.11	0.70

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
			dB	dBuV	dB		dB
1	0.175	50.97	-3.73	54.70	50.52	0.25	0.20
2	0.244	44.44	-7.53	51.97	44.07	0.17	0.20
3	0.289	41.75	-8.80	50.55	41.40	0.15	0.20
4	1.208	36.53	-9.47	46.00	36.03	0.10	0.40
5	3.871	35.23	-10.77	46.00	34.73	0.10	0.40
6	10.402	28.59	-21.41	50.00	27.78	0.11	0.70



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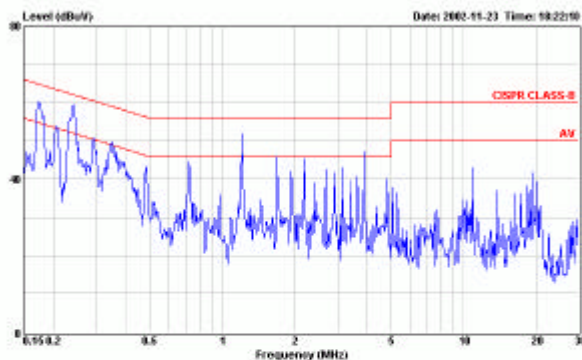
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Data#: 55 File#: D:\LG-G911115.EMI



Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : PIP

Data#: 56 File#: D:\LG-G911115.EMI

Date: 2002-11-23 Time: 18:22:14

Site : No.4 Shielded room
Condition : CISPR CLASS-B RMM-407 NEUTRAL
EUT : PLASMA Monitor M/N:MU-42P240
POWER : 120Vac / 60Hz (24°C/66%)
MEMO : PIP

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
			dB	dBuV	dB		dB
1	0.175	58.33	-6.38	64.71	57.88	0.25	0.20
2	0.241	57.75	-4.31	62.06	57.38	0.17	0.20
3	0.289	48.37	-12.18	60.55	48.02	0.15	0.20
4	1.208	50.18	-5.82	56.00	49.68	0.10	0.40
5	3.872	46.34	-9.66	56.00	45.84	0.10	0.40
6	10.403	34.23	-25.77	60.00	33.33	0.20	0.70

	Freq	Level	Over	Limit	Read	Probe	Cable
	MHz	dBuV	Limit	Line	Level	Factor	Loss
			dB	dBuV	dB		dB
1	0.175	51.18	-3.53	54.71	50.73	0.25	0.20
2	0.241	45.83	-6.23	52.06	45.46	0.17	0.20
3	0.289	41.83	-8.72	50.55	41.48	0.15	0.20
4	1.208	37.51	-8.49	46.00	37.01	0.10	0.40
5	3.872	34.55	-11.45	46.00	34.05	0.10	0.40
6	10.403	21.71	-28.29	50.00	20.81	0.20	0.70

3. RADIATED EMISSION TEST

3.1. Test Equipment

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

3.1.1. At Semi-Anechoic Chamber

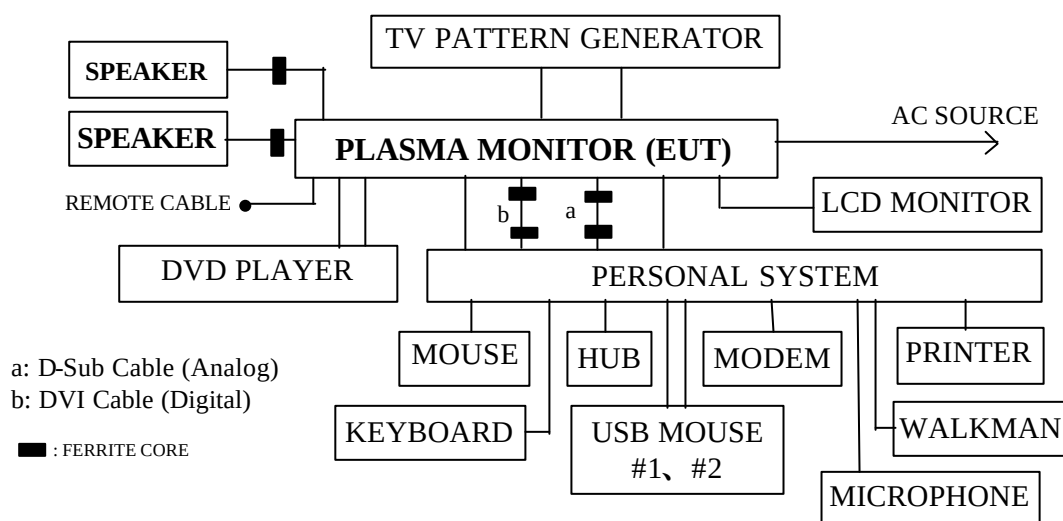
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 23, 02'	1 Year
2.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 05, 02'	1 Year
3.	Broadband Antenna	Schwarzbeck	BBA9106	A3L	Feb. 24, 02'	1 Year
4.	Broadband Antenna	Schwarzbeck	UHALP9108-A	0138	Feb. 24, 02'	1 Year

3.1.2. At No. 6 Open Test Site

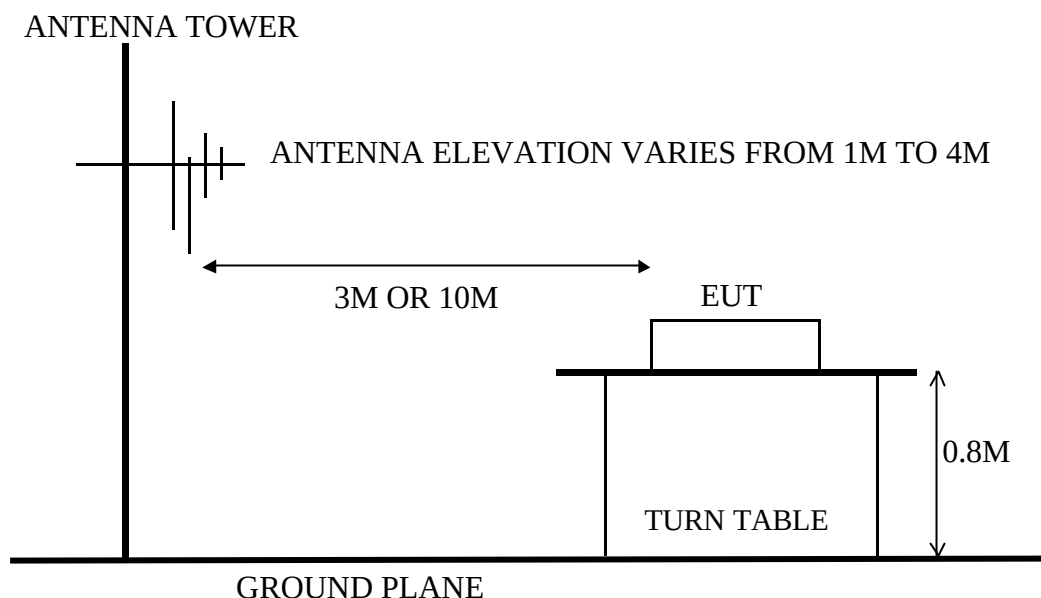
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	R&S	ESVP	879691/036	Jul. 09, 02'	1 Year
2.	Spectrum Analyzer	Anritsu	MS2601A	MT28657	Aug. 23, 02'	1 Year
3.	Broadband Antenna	CHASE	VBA6106A	1262	Nov. 26, 02'	1 Year
4.	Broadband Antenna	CHASE	UPA6109	1063	Nov. 26, 02'	1 Year

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3M) & Open Field Test Site (10M) Setup Diagram



3.3. Radiation Limit (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 (3)	30 (40)
230 ~ 1000	10 (3)	37 (47)

- 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) The 3M limit apply relation: $L2 = L1(d1/d2)$

3.4. EUT's Configuration during Compliance Measurement

The configuration of EUT and its simulators were 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 and its simulators were placed on a turn table which is 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT is set 3 or 10 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved 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 C63.4-1992 on radiated measurement.

The bandwidth of the R&S Test Receiver ESVP was set at 120KHz.
The bandwidth of the HP Spectrum Analyzer 8593EM was set at 120KHz.

EUT with the following test modes and with AC 120V/60Hz supplying voltage were measured within Semi-Anechoic Chamber and all the scanning waveform were attached within APPENDIX, which include: (※ Worst test mode)

No.	Input Port	Display of EUT
1.	RGB 1 Input/ D-Sub	Character “H”, 640*480/75Hz, 38kHz
2.	RGB 1 Input/ D-Sub	Character “H”, 1024*768/75Hz, 60kHz
3.	RGB 1 Input/ D-Sub	Character “H”, 1280*1024/60Hz, 64kHz
4.	RGB 2 Input/ DVI	Character “H”, 800*600/60Hz, 38kHz
5.	RGB 2 Input/ DVI	Character “H”, 1024*768/60Hz, 48kHz
6.	RGB 2 Input/ DVI	Character “H”, 1280*1024/60Hz, 64kHz
7.	AV Input	Image “Color Bar”
8.	S-Video Input	Image “Color Bar”
9.	Component Input (DVD)	Image “DVD Movie”
10.	D-Sub + A/V Inputs (PIP)	Character “H” + Image “Color Bare”

※

Finally, re-measured the worst test mode [Mode 6] at No. 6 Open Field Test Site and all the test results are listed in section 3.7.

3.7. Radiated Emission Noise Measurement Results

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

Date of Test :	Dec. 10, 2002	Temperature :	22°C
EUT :	PLASMA MONITOR	Humidity :	68%
Test Mode :	RGB 2 Input/DVI, 1280*1024/60Hz, 64kHz (Character "H")		

	Frequency	Antenna	Cable	Meter Reading	Emission Level	Limits	Margin
	MHz	Factor dB/m	Loss dB	Horizontal dBμV	Horizontal dBμV/m		
*	51.360	15.88	0.94	2.40	19.22	30.00	10.78
	62.040	12.33	1.06	1.60	14.99	30.00	15.01
	144.325	20.82	1.49	- 0.20	22.11	30.00	7.89
	166.084	20.97	1.68	1.20	23.85	30.00	6.15
	184.246	21.26	1.78	0.29	23.33	30.00	6.67
	199.030	21.44	1.83	- 2.99	20.28	30.00	9.72
	240.048	22.35	1.96	- 2.70	21.61	37.00	15.39
	257.750	23.12	2.03	0.61	25.76	37.00	11.24
	300.080	13.26	2.23	8.60	24.09	37.00	12.91
	336.425	13.90	2.47	3.91	20.28	37.00	16.72
	432.203	15.68	2.69	2.50	20.87	37.00	16.13
	480.350	16.83	2.85	2.60	22.28	37.00	14.72
	540.007	17.88	3.02	9.20	30.10	37.00	6.90
	601.800	19.66	3.18	7.30	30.14	37.00	6.86
	810.105	21.57	3.83	6.61	32.01	37.00	4.99
	849.980	23.01	3.96	1.30	28.27	37.00	8.73

- Remarks :
1. All reading are Quasi-Peak values.
 2. Emission Level = Meter Reading + Antenna Factor + Cable Loss.
 3. ‘*’ The worst emission was detected at 810.105MHz with corrected signal level of 32.01dBμV/m (limit was 37dBμV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 240 °.
 4. 0 ° is the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Date of Test : Dec. 10, 2002 Temperature : 22°C

EUT : PLASMA MONITOR Humidity : 68%

Test Mode : RGB 2 Input/DVI, 1280*1024/60Hz, 64kHz (Character "H")

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level		Margin dB
			Vertical dBμV		Vertical dBμV/m	Limits dBμV/m	
30.960	24.20	0.69	0.70		25.59	30.00	4.41
53.400	15.15	0.96	5.49		21.60	30.00	8.40
123.480	18.78	1.41	- 2.70		17.49	30.00	12.51
165.984	21.18	1.68	- 2.30		20.56	30.00	9.44
200.050	22.51	1.84	- 0.40		23.95	30.00	6.05
* 220.864	21.16	1.90	1.00		24.06	30.00	5.94
281.354	22.81	2.14	- 2.41		22.54	37.00	14.46
300.080	13.58	2.23	6.90		22.71	37.00	14.29
425.724	16.57	2.66	3.80		23.03	37.00	13.97
480.094	17.27	2.85	5.59		25.71	37.00	11.29
532.638	18.25	3.00	1.70		22.95	37.00	14.05
593.050	19.31	3.16	2.40		24.87	37.00	12.13
784.036	21.69	3.68	0.20		25.57	37.00	11.43
810.040	22.35	3.83	1.00		27.18	37.00	9.82
978.420	23.44	4.07	0.10		27.61	37.00	9.39

- Remarks :
1. All reading are Quasi-Peak values.
 2. Emission Level = Meter Reading + Antenna Factor + Cable Loss.
 3. '*' The worst emission was detected at 220.864MHz with corrected signal level of 24.06dBμV/m (limit was 30dBμV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 160 °.
 4. 0 ° is the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

4. MODIFICATIONS TO EUT

1. Add gaskets on the brackets of the A/V interface board.
2. Add a ferrite core on the L/R wires of speaker. (The wires from speaker board to main board)
3. Add conductive fabric tape on the connectors of connect cable. (Between main board and control board)
4. Add ferrite cores on the four flat cables separately.
5. The flat cable with conductive fabric materials. (The flat cable form control board to YSUS-drive board)
6. Bond two ferrite cores on the D-Sub data cable.
7. Bond two ferrite cores on the DVI data cable.
8. Bond a ferrite core on the speaker's cable separately.

5. DEVIATION TO TEST SPECIFICATIONS

【NONE】