

APPLICATION FOR CERTIFICATION  
On Behalf of  
Philips Electronics Industries (Taiwan) Ltd.  
Flat Panel Color Monitor  
Model No. : (1)190B6 (2)190P6 (3)190S6  
FCC ID: A3KM141  
Brand : PHILIPS

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

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File Number : EM940296  
Report Number : EM-F940057  
Date of Test : Mar. 09 ~ 11, 2005  
Date of Report : Mar. 15, 2005



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APPENDIX I (The Details of Difference for all Models)

APPENDIX II (Radiated Test Data at Simple Anechoic Chamber)



# TEST REPORT CERTIFICATION

Applicant : Philips Electronics Industries (Taiwan) Ltd.  
 Manufacturer : Philips Electronics Industries (Taiwan) Ltd.  
 Factory #1 : Skyway (Dong Guan) Monitor Factory  
 Factory #2 : Philips Consumer Electronics Co., of Suzhou Ltd.  
 Factory #3 : Philips Ltd. Assembly Centre Hungary  
 EUT Description : Flat Panel Color Monitor  
 FCC ID : A3KM141  
 (A) MODEL NO. : (1)190B6 (2)190P6 (3)190S6  
 (B) SERIAL NO. : (1)TY0404812 (2)TY0405016 (3)TY0404799  
 (C) BRAND NAME : PHILIPS  
 (D) POWER SUPPLY : AC 100-240V~ 60-50Hz  
 (E) TEST VOLTAGE : AC 120V/60Hz

## Measurement Standard Used:

FCC CFR 47 Part 15 Subpart B/Jan. 2005 and CISPR 22/1997  
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 sections 15.107(a) and 15.109(a)(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 compliant 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 : Mar. 09 ~ 11, 2005

Prepared by : Julie Hsu Mar. 18, 2005  
(Julie Hsu/Assistant Administrator)

Test Engineer : Ben Cheng Mar. 18, 2005  
(Ben Cheng/Section Manager)

Approved & Authorized Signer : Leon Liu Mar. 18, 2005  
(Leon Liu/Senior Manager)



# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

Description	:	Flat Panel Color Monitor
Model Number	:	(1)190B6 (2)190P6 (3)190S6  Above all models the details of differences are attached in Appendix I. All models are representative selected in the test and included in this report.
Serial Number	:	(1)TY0404812 (2)TY0405016 (3)TY0404799
FCC ID.	:	A3KM141
Brand	:	PHILIPS
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 Road, Chungli Industrial Park P.O. Box 123, Chungli, Taoyuan, Taiwan, R.O.C
Factory #1	:	Skyway (Dong Guan) Monitor Factory  Industrial Zone, Da Ling Shan Town, Dong Guan City, Guang Dong, China
Factory #2	:	Philips Consumer Electronics Co., of Suzhou Ltd.  No. 161, Zhujiang Road, New District, Suzhou 215011, China
Factory #3	:	Philips Ltd. Assembly Centre Hungary  Holland Fasor 6. PF 204, H-8002 Szekesfehervar, Hungary
Scanning Frequency	:	Horizontal: 30-80kHz Vertical: 56-75Hz
Max Resolution	:	1280*1024



LCD Panel	:	(1)AUO (AU Optronics Corp), MN M190EN04 (2)LG Philips, M/N LM190E04
Scaler IC	:	(1)NT68563EF (2)GM5321 (3)NT68521AEF
Power Board	:	(1)Lien Chang, Type No. AIP-0093 (2)Delta, Type No. EDAP-43AF A
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Data Cable (Only M/N 190B6, 190P6 used)	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
USB Cable (Only M/N 190B6, 190P6 used)	:	Shielded, Detachable, 3m Bonded two ferrite cores
Audio Cable (Only M/N 190B6, 190P6 used)	:	Non-Shielded, Detachable, 1.8m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 pin)
Data of Receipt of Sample	:	Mar. 09, 2005
Date of Test	:	Mar. 09 ~ 11, 2005

## 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-8100
Serial Number	:	N/A
FCC ID	:	by Doc
BSMI ID	:	3892D553
Manufacturer	:	DELL
Data Cable	:	Shielded, Undetachable, 2m



## 1.2.3. DOT MATRIX PRINTER

Model Number	:	KX-P2135
Serial Number	:	8DMCNC02203
BSMI ID	:	3872A371
FCC ID	:	ACJ5Z6KX-P2135
Brand	:	Panasonic
Manufacturer	:	Matsushita
Data Cable	:	Non-Shielded, Detachable, 1.5m
Power Cord	:	Non-Shielded, Undetachable, 1.8m

## 1.2.4. MODEM

Model Number	:	DM-1414
Serial Number	:	980034392
FCC ID	:	IFAXDM1414
Manufacturer	:	Accex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, M/N AM-91000A
		Non-Shielded, Undetachable, 1.8m

## 1.2.5. MOUSE

Model Number	:	M-S89
Serial Number	:	N/A
FCC ID	:	JNZ211443
BSMI ID	:	3892D101
Manufacturer	:	DELL
Data Cable	:	Shielded, Undetachable, 1.8m

## 1.2.6. MICROPHONE

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

## 1.2.7. WALKMAN

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

## 《For M/N 190B6 used》

## 1.2.8. EARPHONE (Link to EUT)

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



## 1.2.9. USB STORAGE MEDIA (Link to EUT)

Model Number	:	505332
Serial Number	:	N/A
Manufacturer	:	Genuine
Capacity	:	256M
Data Cable	:	Shielded, Detachable, 1.0m Bonded two ferrite cores

**《For M/N 190P6 used》**

## 1.2.10. EARPHONE (Link to EUT)

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

## 1.2.11. USB STORAGE MEDIA # 1 (Link to EUT)

Model Number	:	505332
Serial Number	:	N/A
Manufacturer	:	Genuine
Capacity	:	256M
Data Cable	:	Shielded, Detachable, 1.0m Bonded two ferrite cores

## 1.2.12. USB STORAGE MEDIA # 2 (Link to EUT)

Model Number	:	505332
Serial Number	:	N/A
Manufacturer	:	Genuine
Capacity	:	256M
Data Cable	:	Shielded, Detachable, 1.0m Bonded two ferrite cores

## 1.2.13. USB2.0 EXTERNAL HDD #1 (Link to EUT)

Model Number	:	F12-U
Serial Number	:	A0100214-4CG0020
Manufacturer	:	TeraSys
FCC ID	:	by DoC
BSMI ID	:	3902C223
Data Cable	:	Shielded, Detachable, 1.8m

## 1.2.14. USB2.0 EXTERNAL HDD #2 (Link to EUT)

Model Number	:	F12-U
Serial Number	:	A0100214-4CG0015
Manufacturer	:	TeraSys
FCC ID	:	by DoC
BSMI ID	:	3902C223
Data Cable	:	Shielded, Detachable, 1.8m



## 《For M/N 190S6 used》

## 1.2.15. EARPHONE

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

## 1.2.16. MICRO VAULT (USB Storage Media)

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

## 1.3. Test Facility

Name of Firm	:	<b>Audix Corporation</b> Technical Division EMC Department No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien 24443, Taiwan, R.O.C.
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Test Facility & Location	:	<b>No. 4 Shielded Room &amp; Simple Anechoic Chamber</b> No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien 24443, Taiwan, R.O.C.
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**No. 4 Open Test Site**

No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang,  
Taipei Hsien 24443, Taiwan, R.O.C.

Mar. 31, 2003 Re-File on  
Federal Communication Commission  
Registration Number: 90991

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

DAR-Registration No.	:	DAT-P-145/03-01
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## 1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	$\pm 1.73\text{dB}$
Radiation Test (Distance: 10m)	30MHz~300MHz	$\pm 2.99\text{dB}$
	300MHz~1000MHz	$\pm 2.73\text{dB}$
Radiation Test (Distance: 3m)	30MHz~300MHz	$\pm 2.91\text{dB}$
	300MHz~1000MHz	$\pm 2.94\text{dB}$

Remark : Uncertainty =  $k_{uc}(y)$



## 2. CONDUCTED DISTURBANCE MEASUREMENT

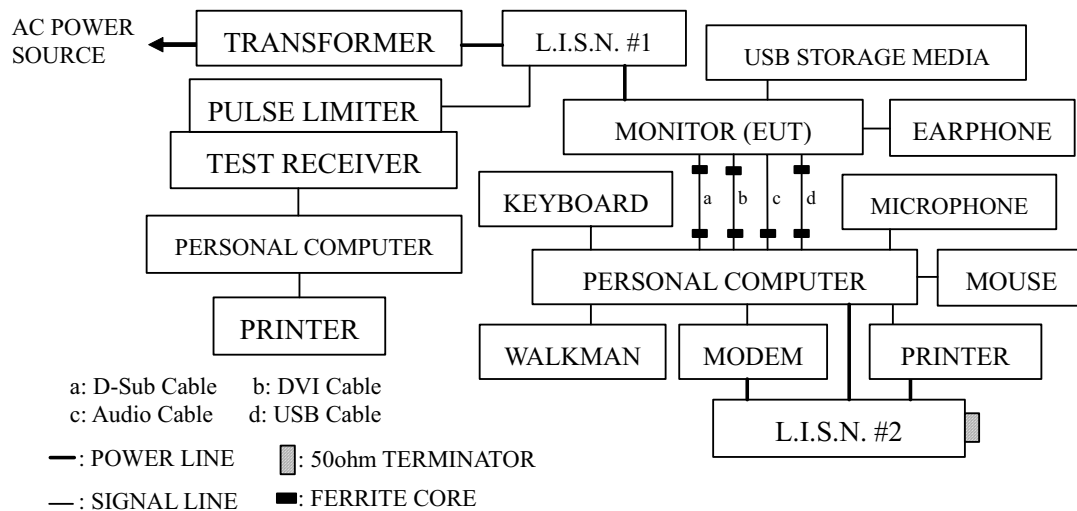
### 2.1. Test Equipment

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

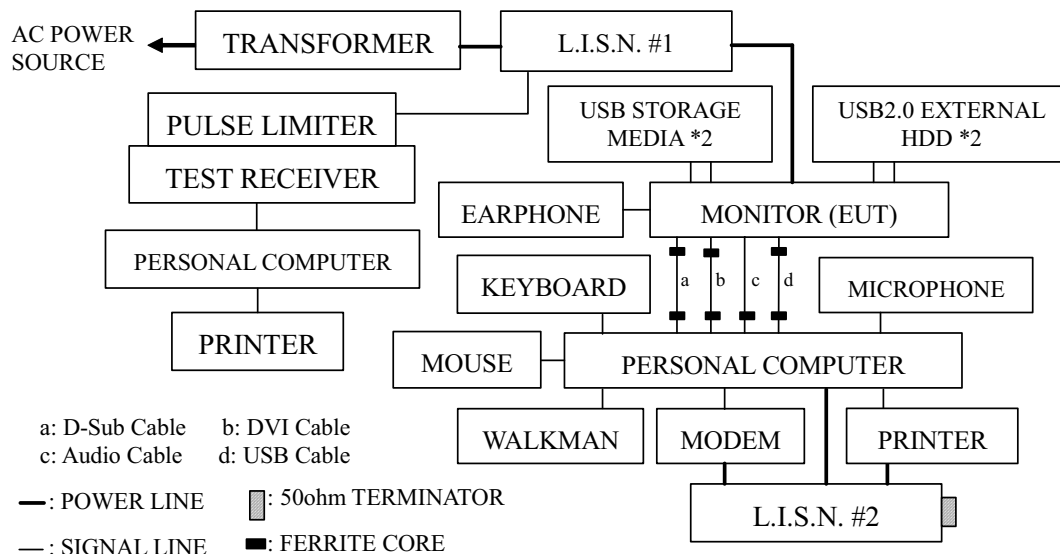
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	Rohde & Schwarz	ESHS10	844591/015	Mar.05, 05'	Mar.04, 06'
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-1430-5	Oct.06, 04'	Oct.06, 05'
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-1430-6	Oct.06, 04'	Oct.06, 05'
4.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	004	Apr.28, 04'	Apr.27, 05'

### 2.2. Block Diagram of Test Setup

#### 2.2.1. M/N 190B5

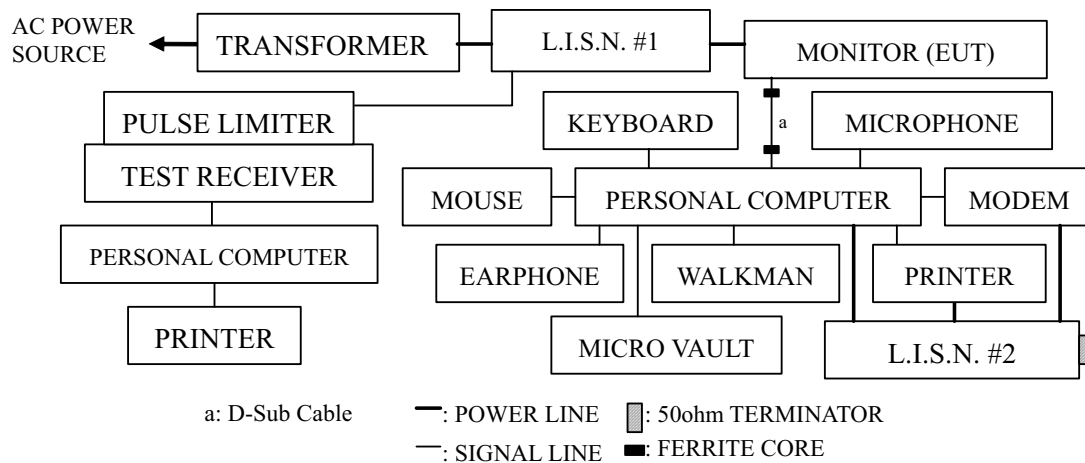


#### 2.2.2. M/N 190P5





## 2.2.3. M/N 190S6



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

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB $\mu$ V	56 ~ 46 dB $\mu$ V
500kHz ~ 5MHz	56 dB $\mu$ V	46 dB $\mu$ V
5MHz ~ 30MHz	60 dB $\mu$ V	50 dB $\mu$ 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. Flat Panel Color Monitor (EUT) #1

Model Number	:	190B6
Serial Number	:	TY0404812
FCC ID	:	A3KM141
Brand	:	PHILIPS
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
LCD Panel	:	AUO, MN M190EN04
Scaler IC	:	NT68563EF
Power Board	:	Lien Chang, Type No. AIP-0093
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 pin)



## 2.4.2. Flat Panel Color Monitor (EUT) #2

Model Number	:	190P6
Serial Number	:	TY04050162
FCC ID	:	A3KM141
Brand	:	PHILIPS
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
LCD Panel	:	LG Philips, M/N LM190E04
Scaler IC	:	GM5321
Power Board	:	Lien Chang, Type No. AIP-0093
D-Sub Data Cable	:	Shielded, Detachable, 1.8m
		Bonded two ferrite cores
DVI Data Cable	:	Shielded, Detachable, 1.8m
		Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 pin)

## 2.4.3. Flat Panel Color Monitor (EUT) #3

Model Number	:	190S6
Serial Number	:	TY0404799
FCC ID	:	A3KM141
Brand	:	PHILIPS
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
LCD Panel	:	LG Philips, M/N LM190E04
Scaler IC	:	NT68521AEF
Power Board	:	Delta, Type No. EDAP-43AF A
D-Sub Data Cable	:	Shielded, Detachable, 1.8m
		Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 pin)

## 2.4.4. 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.

**《For M/N 190B6、190P6》**

2.5.4. Personal computer running the EMI self-test program “IBM V1.8” and sent “H” character to Monitor (EUT), the screen of Monitor (EUT) displayed and filled with “H” pattern by EUT’s resolution.

2.5.5. Personal Computer running the “Media Player” program and send the music sound to speaker of monitor (EUT) via Audio port.

2.5.6. Repeat the above procedures from 2.5.3 to 2.5.5.

2.5.7. The other peripheral devices were driven and operated in turn during all testing.



《For M/N 190S6》

- 2.5.8. Personal computer running the EMI self-test program “IBM V1.8” and sent “H” character to Monitor (EUT), the screen of Monitor (EUT) displayed and filled with “H” pattern by EUT’s resolution.
- 2.5.9. Repeat the above procedures from 2.5.8.
- 2.5.10. 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 cord 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 ohm 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 ESHS10 was set at 10kHz.

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. Conducted Emission Measurement Results

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

The EUT with following test modes were performed during conducted testing and all the test results are listed in following pages.

Test Date : Mar. 11, 2005    Temperature : 18℃    Humidity : 72%

The details of test modes are as follows :



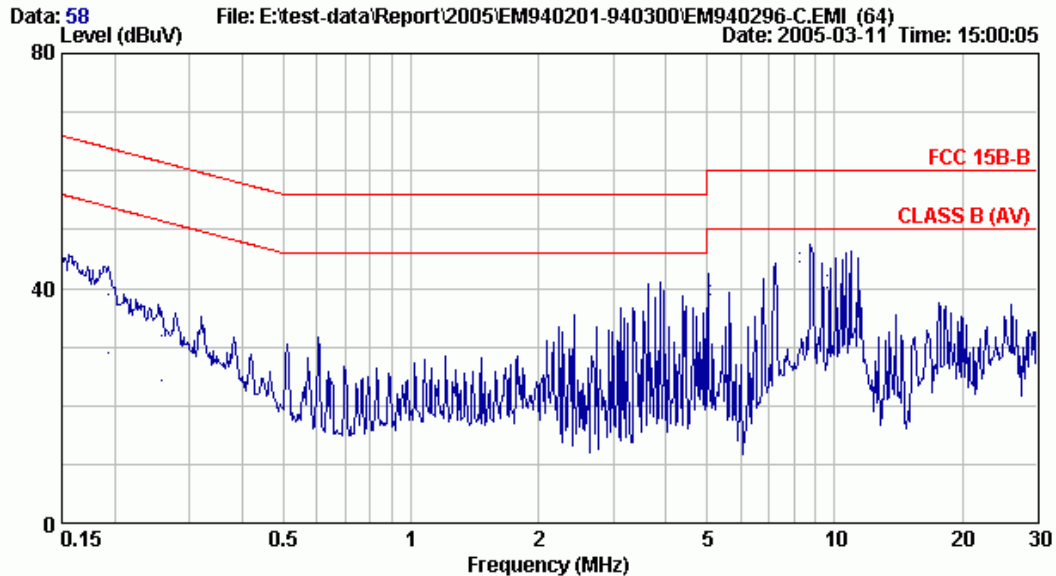
Mode	Model No. (Serial No.)	LCD Panel (Power Board)	LCD Panel's Angle	Data Cable	Frequency / Resolution.	Reference Test Data No.	
						Neutral	Line
1.	190B6 (TY0404812)	AUO, (Lien Chang)	0°	D-Sub	640*480/60Hz, 31kHz	# 58	# 57
2.					1024*768/75Hz, 60kHz	# 55	# 56
3.					1280*1024/75Hz, 80kHz	# 54	# 53
4.				DVI	640*480/60Hz, 31kHz	# 59	# 60
5.					1024*768/75Hz, 60kHz	# 62	# 61
6.					1280*1024/75Hz, 80kHz	# 63	# 64
7.	190P6 (TY0405016)	LG Philips, (Lien Chang)	0°	D-Sub	640*480/60Hz, 31kHz	# 21	# 22
8.					1024*768/75Hz, 60kHz	# 24	# 23
9.					1280*1024/75Hz, 80kHz	# 25	# 26
10.				DVI	640*480/60Hz, 31kHz	# 20	# 19
11.					1024*768/75Hz, 60kHz	# 17	# 18
12.					1280*1024/75Hz, 80kHz	# 16	# 15
13.			Rotate 90°	DVI	1024*1280/60Hz, 80kHz	# 28	# 27
14.	190S6 (TY0404799)	LG Philips, (Delta)	0°	D-Sub	640*480/60Hz, 31kHz	# 29	# 30
15.					1024*768/75Hz, 60kHz	# 32	# 31
16.					1280*1024/75Hz, 80kHz	# 33	# 34



## 《M/N 190B6, LCD Panel: AUO + Lien Chang Power Board》



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Site : NO.4 Shielded Room Data : 58  
Condition : KMW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz 31kHz(D-SUB)  
S/N:0404812

		LISN	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)	
1	0.193	0.21	0.21	38.65	39.07	63.89	24.82	QP
2	0.193	0.21	0.21	28.60	29.02	53.89	24.87	AVERAGE
3	0.257	0.16	0.22	31.55	31.93	61.52	29.58	QP
4	0.257	0.16	0.22	23.88	24.26	51.52	27.25	AVERAGE
5	3.127	0.10	0.54	34.06	34.70	56.00	21.30	QP
6	3.127	0.10	0.54	31.23	31.87	46.00	14.13	AVERAGE
7	5.103	0.13	0.62	39.57	40.32	60.00	19.68	QP
8	5.103	0.13	0.62	38.20	38.95	50.00	11.05	AVERAGE
9	8.292	0.18	0.67	45.11	45.96	60.00	14.04	QP
10	8.292	0.18	0.67	43.62	44.47	50.00	5.53	AVERAGE
11	9.566	0.19	0.69	41.45	42.34	60.00	17.66	QP
12	9.566	0.19	0.69	39.29	40.18	50.00	9.82	AVERAGE

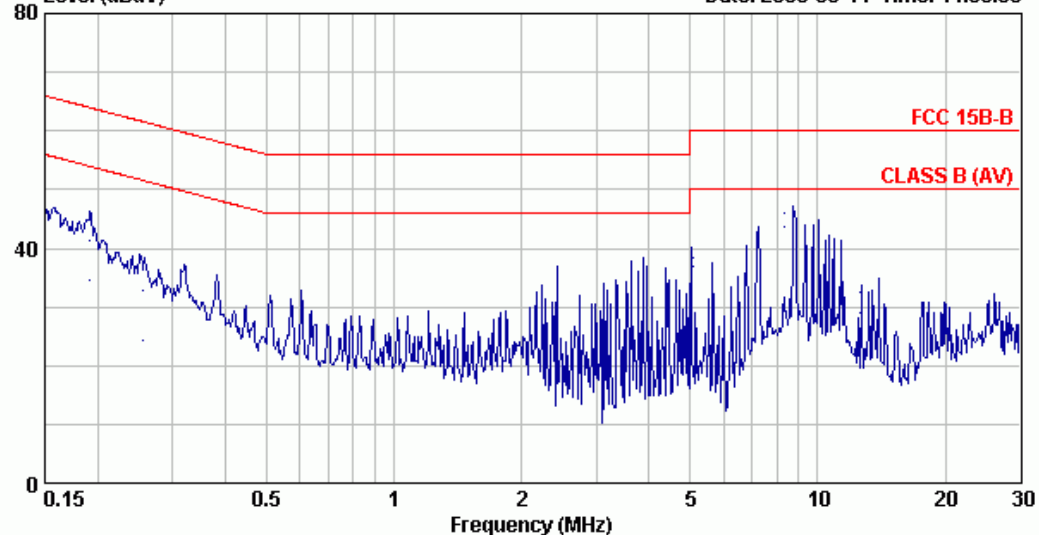
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





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Email:ttmc@ttmc.com.tw

Data: 57 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64) Date: 2005-03-11 Time: 14:56:56



Site : NO.4 Shielded Room Data : 57  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz 31kHz(D-SUB)  
S/N:0404812

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.191	0.22	0.21	41.01	41.43	64.01	22.57	QP
2	0.191	0.22	0.21	34.07	34.49	54.01	19.51	AVERAGE
3	0.256	0.16	0.22	32.47	32.86	61.55	28.69	QP
4	0.256	0.16	0.22	23.83	24.22	51.55	27.33	AVERAGE
5	3.189	0.10	0.55	30.17	30.82	56.00	25.18	QP
6	3.189	0.10	0.55	28.90	29.55	46.00	16.45	AVERAGE
7	5.102	0.10	0.62	37.80	38.52	60.00	21.48	QP
8	5.102	0.10	0.62	36.28	37.00	50.00	13.00	AVERAGE
9	8.353	0.10	0.67	45.25	46.02	60.00	13.98	QP
10	8.353	0.10	0.67	42.86	43.63	50.00	6.37	AVERAGE
11	12.626	0.16	0.70	31.53	32.39	60.00	27.61	QP
12	12.626	0.16	0.70	28.26	29.12	50.00	20.88	AVERAGE

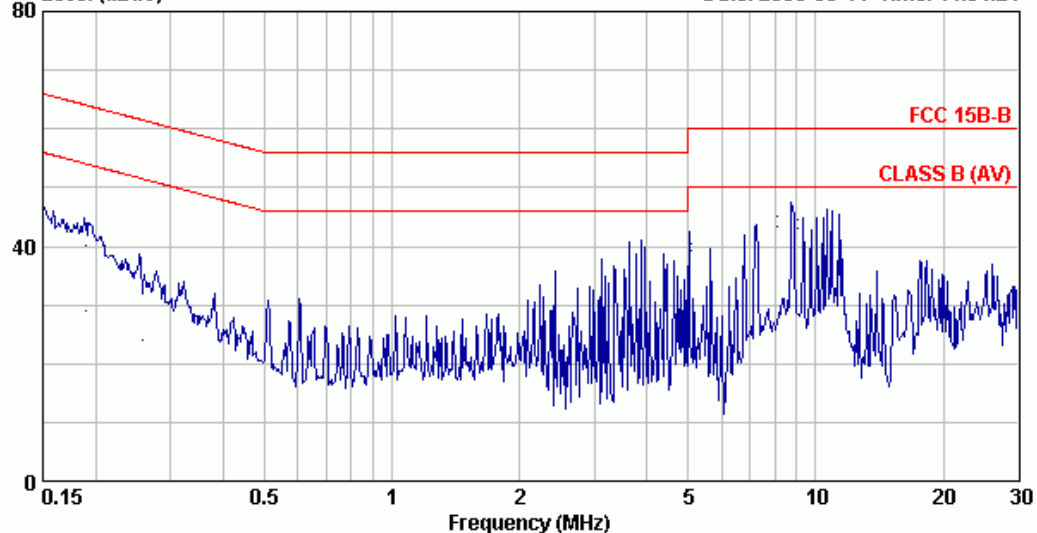
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





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Data: 55 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64)  
Level (dBuV) Date: 2005-03-11 Time: 14:51:21



Site : NO.4 Shielded Room Data : 55  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768 / 75Hz 60kHz (D-SUB)  
S/N:0404812

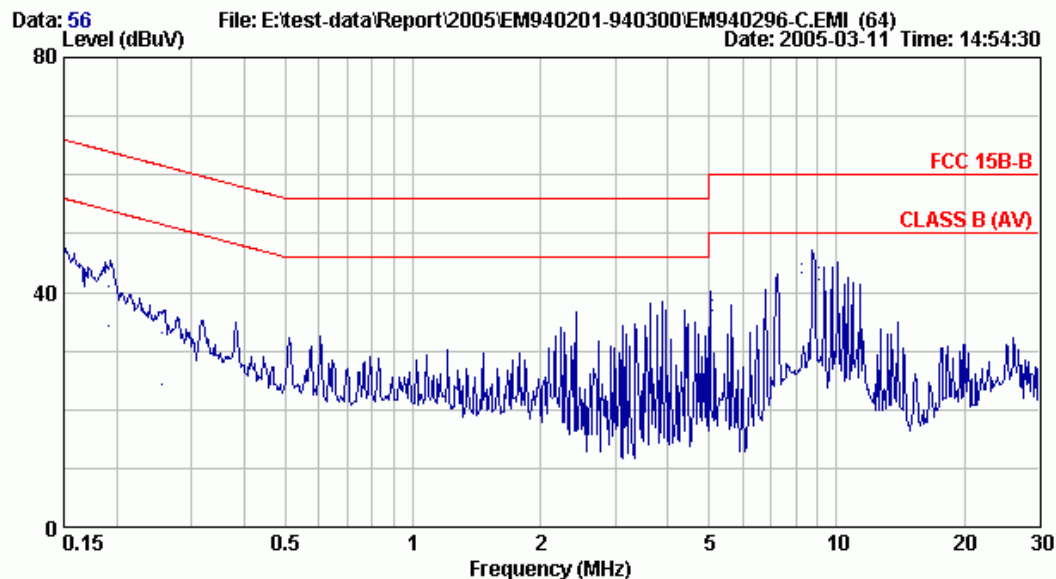
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.190	0.22	0.21	39.60	40.03	64.05	24.02	QP
2	0.190	0.22	0.21	28.67	29.10	54.05	24.95	AVERAGE
3	0.257	0.16	0.22	31.47	31.85	61.52	29.66	QP
4	0.257	0.16	0.22	23.73	24.11	51.52	27.40	AVERAGE
5	3.127	0.10	0.54	34.34	34.98	56.00	21.02	QP
6	3.127	0.10	0.54	31.39	32.03	46.00	13.97	AVERAGE
7	5.102	0.13	0.62	39.83	40.58	60.00	19.42	QP
8	5.102	0.13	0.62	38.50	39.25	50.00	10.75	AVERAGE
9	8.102	0.18	0.67	44.37	45.22	60.00	14.78	QP
10	8.102	0.18	0.67	42.42	43.27	50.00	6.73	AVERAGE
11	9.056	0.19	0.68	43.81	44.68	60.00	15.32	QP
12	9.056	0.19	0.68	42.19	43.06	50.00	6.94	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.4 Shielded Room Data : 56  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768 / 75Hz 60kHz (D-SUB)  
S/N:0404812

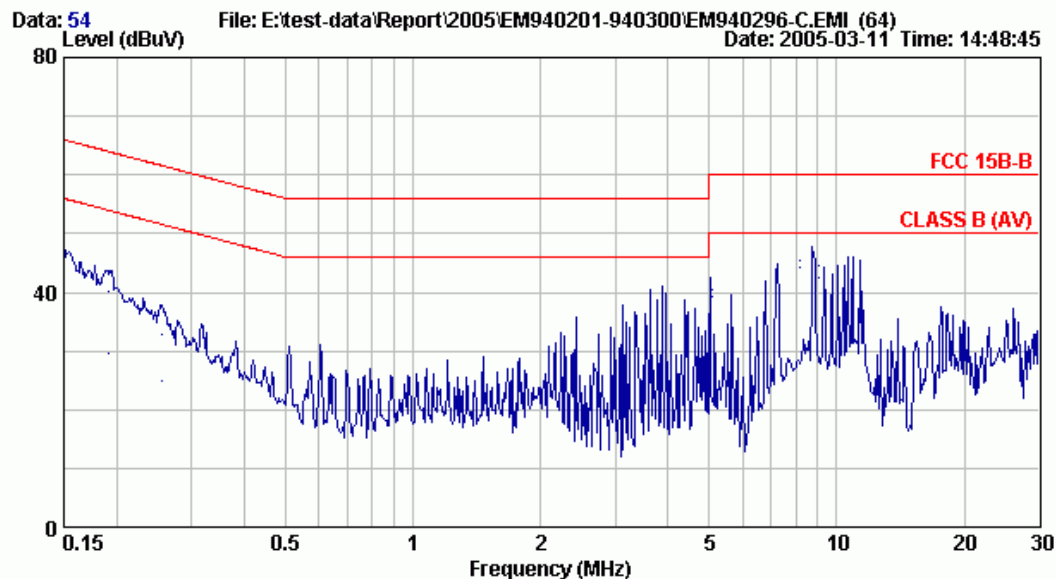
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.192	0.21	0.21	40.59	41.01	63.95	22.94	QP
2	0.192	0.21	0.21	33.77	34.19	53.95	19.76	AVERAGE
3	0.256	0.16	0.22	32.61	33.00	61.56	28.56	QP
4	0.256	0.16	0.22	23.98	24.37	51.56	27.19	AVERAGE
5	3.254	0.10	0.55	30.16	30.81	56.00	25.19	QP
6	3.254	0.10	0.55	28.85	29.50	46.00	16.50	AVERAGE
7	5.102	0.10	0.62	37.82	38.54	60.00	21.46	QP
8	5.102	0.10	0.62	36.26	36.98	50.00	13.02	AVERAGE
9	8.227	0.10	0.67	43.93	44.70	60.00	15.30	QP
10	8.227	0.10	0.67	42.59	43.36	50.00	6.64	AVERAGE
11	9.057	0.10	0.68	43.53	44.31	60.00	15.69	QP
12	9.057	0.10	0.68	41.54	42.32	50.00	7.68	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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Email:ttmc@ttmc.com.tw



Site : NO.4 Shielded Room Data : 54  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz 80kHz (D-SUB)  
S/N:0404812

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.191	0.22	0.21	39.82	40.24	64.00	23.76	QP
2	0.191	0.22	0.21	29.29	29.71	54.00	24.29	AVERAGE
3	0.256	0.16	0.22	32.35	32.74	61.56	28.82	QP
4	0.256	0.16	0.22	24.44	24.83	51.56	26.73	AVERAGE
5	3.251	0.10	0.55	33.18	33.83	56.00	22.17	QP
6	3.251	0.10	0.55	31.74	32.39	46.00	13.61	AVERAGE
7	5.102	0.13	0.62	39.81	40.56	60.00	19.44	QP
8	5.102	0.13	0.62	38.51	39.26	50.00	10.74	AVERAGE
9	8.164	0.18	0.67	44.65	45.50	60.00	14.50	QP
10	8.164	0.18	0.67	43.28	44.13	50.00	5.87	AVERAGE
11	9.053	0.19	0.68	43.53	44.40	60.00	15.60	QP
12	9.053	0.19	0.68	41.58	42.45	50.00	7.55	AVERAGE

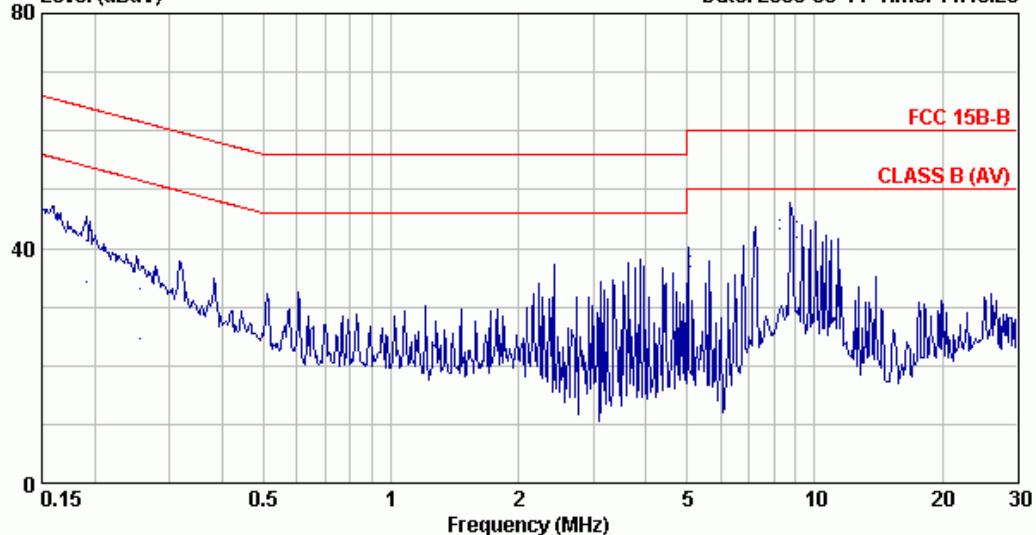
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





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Data: 53 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64) Date: 2005-03-11 Time: 14:46:28



Site : NO.4 Shielded Room Data : 53  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz 80kHz (D-SUB)  
S/N:0404812

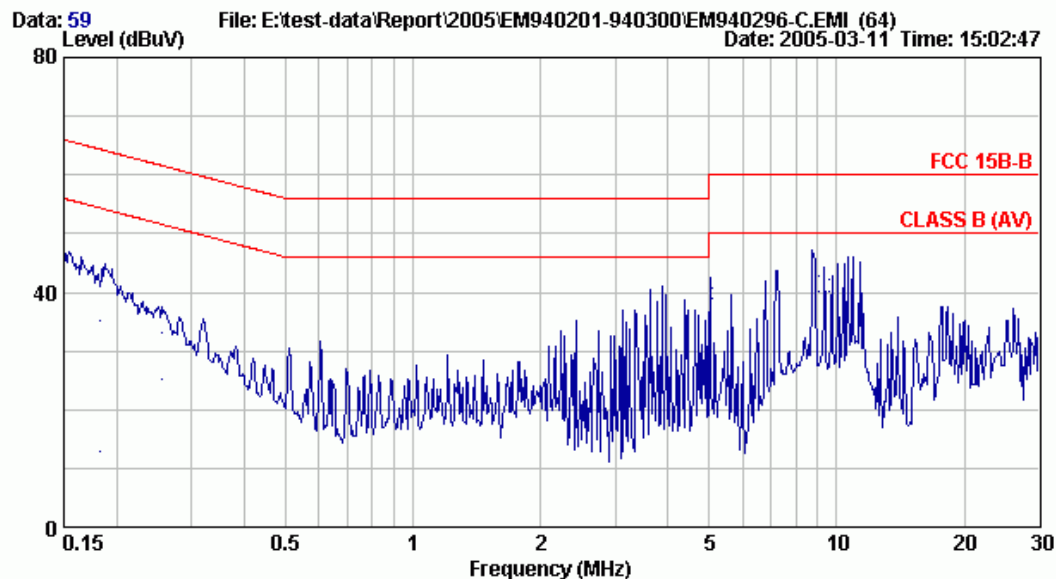
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.191	0.21	0.21	40.93	41.35	63.99	22.64	QP
2	0.191	0.21	0.21	33.99	34.41	53.99	19.58	AVERAGE
3	0.256	0.16	0.22	32.74	33.13	61.56	28.43	QP
4	0.256	0.16	0.22	24.10	24.49	51.56	27.07	AVERAGE
5	3.251	0.10	0.55	30.36	31.01	56.00	24.99	QP
6	3.251	0.10	0.55	29.23	29.88	46.00	16.12	AVERAGE
7	5.101	0.10	0.62	38.04	38.76	60.00	21.24	QP
8	5.101	0.10	0.62	36.27	36.99	50.00	13.01	AVERAGE
9	8.226	0.10	0.67	44.13	44.90	60.00	15.10	QP
10	8.226	0.10	0.67	42.70	43.47	50.00	6.53	AVERAGE
11	9.054	0.10	0.68	43.79	44.57	60.00	15.43	QP
12	9.054	0.10	0.68	41.22	42.00	50.00	8.00	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.4 Shielded Room Data : 59  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz 31kHz (DVI)  
S/N:0404812

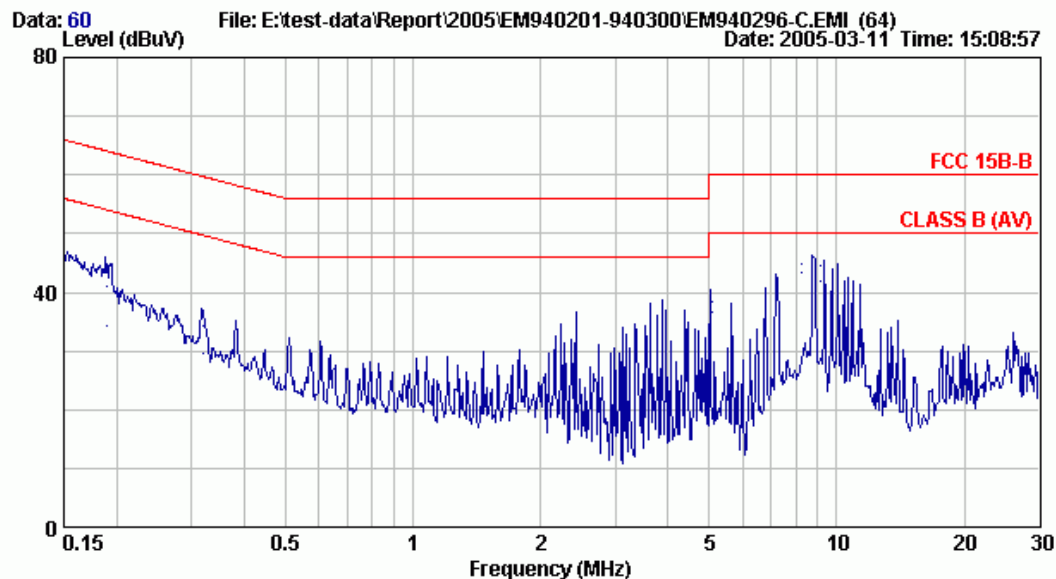
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.182	0.23	0.21	34.61	35.05	64.38	29.33	QP
2	0.182	0.23	0.21	12.51	12.95	54.38	41.43	AVERAGE
3	0.255	0.16	0.22	32.61	33.00	61.60	28.61	QP
4	0.255	0.16	0.22	24.85	25.24	51.60	26.37	AVERAGE
5	3.251	0.10	0.55	33.00	33.65	56.00	22.35	QP
6	3.251	0.10	0.55	31.42	32.07	46.00	13.93	AVERAGE
7	5.101	0.13	0.62	39.87	40.62	60.00	19.38	QP
8	5.101	0.13	0.62	38.09	38.84	50.00	11.16	AVERAGE
9	9.053	0.19	0.68	41.78	42.65	60.00	17.35	QP
10	9.053	0.19	0.68	39.32	40.19	50.00	9.81	AVERAGE
11	9.568	0.19	0.69	41.19	42.08	60.00	17.92	QP
12	9.568	0.19	0.69	39.17	40.06	50.00	9.94	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.4 Shielded Room Data : 60  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz 31kHz (DVI)  
S/N:0404812

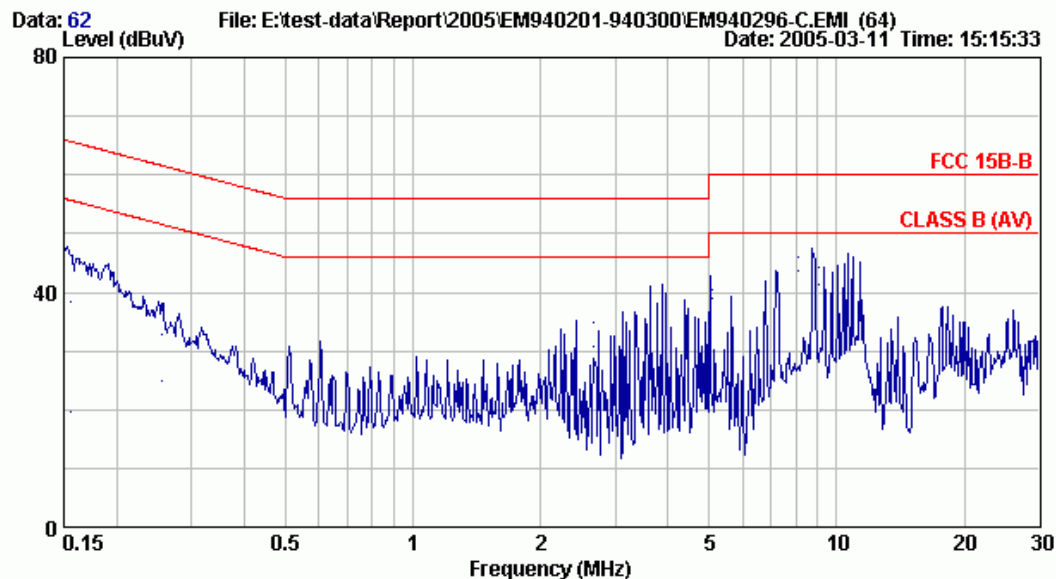
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.190	0.22	0.21	40.71	41.14	64.06	22.92	QP
2	0.190	0.22	0.21	33.82	34.25	54.06	19.81	AVERAGE
3	0.319	0.13	0.24	33.87	34.24	59.73	25.49	QP
4	0.319	0.13	0.24	29.27	29.64	49.73	20.09	AVERAGE
5	2.229	0.10	0.48	28.15	28.73	56.00	27.27	QP
6	2.229	0.10	0.48	23.15	23.73	46.00	22.27	AVERAGE
7	5.101	0.10	0.62	37.64	38.36	60.00	21.64	QP
8	5.101	0.10	0.62	35.96	36.68	50.00	13.32	AVERAGE
9	8.229	0.10	0.67	43.93	44.70	60.00	15.30	QP
10	8.229	0.10	0.67	42.54	43.31	50.00	6.69	AVERAGE
11	9.120	0.10	0.69	43.63	44.42	60.00	15.58	QP
12	9.120	0.10	0.69	41.08	41.87	50.00	8.13	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.4 Shielded Room Data : 62  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768 / 75Hz 60kHz (DVI)  
S/N:0404812

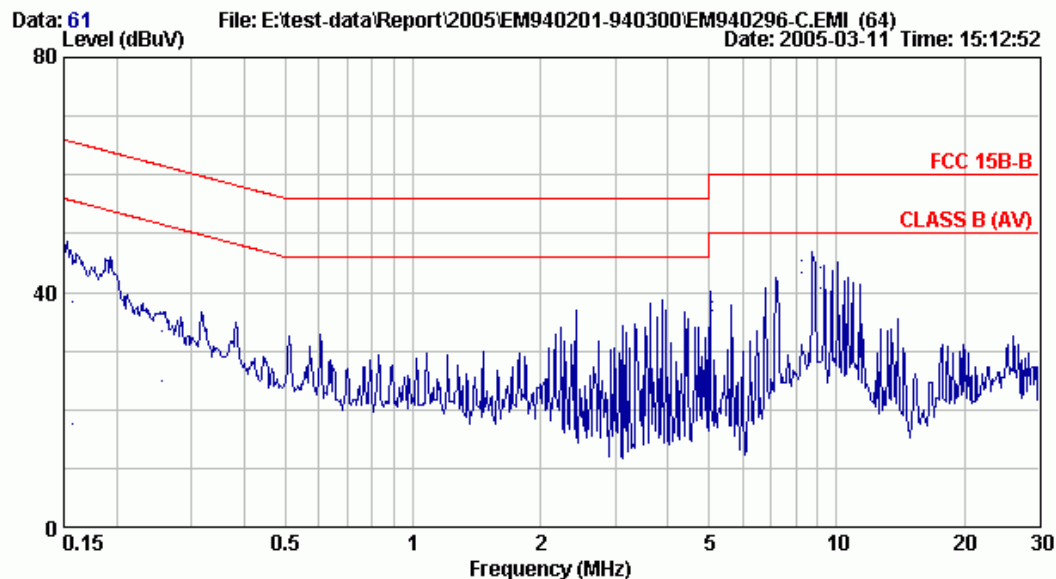
	Freq.	LISN	Cable	Emission				
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB)	(dB)	(dB $\mu$ V)	(dB $\mu$ V)	(dB $\mu$ V)	(dB)	
1	0.156	0.29	0.20	37.89	38.38	65.70	27.32	QP
2	0.156	0.29	0.20	19.26	19.75	55.70	35.95	AVERAGE
3	0.256	0.16	0.22	32.29	32.68	61.57	28.89	QP
4	0.256	0.16	0.22	24.65	25.04	51.57	26.53	AVERAGE
5	2.679	0.10	0.51	34.25	34.86	56.00	21.14	QP
6	2.679	0.10	0.51	30.03	30.64	46.00	15.36	AVERAGE
7	5.103	0.13	0.62	39.57	40.32	60.00	19.68	QP
8	5.103	0.13	0.62	38.23	38.98	50.00	11.02	AVERAGE
9	8.098	0.18	0.67	45.05	45.90	60.00	14.10	QP
10	8.098	0.18	0.67	42.90	43.75	50.00	6.25	AVERAGE
11	9.054	0.19	0.68	43.39	44.26	60.00	15.74	QP
12	9.054	0.19	0.68	40.59	41.46	50.00	8.54	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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Email:temc@temc.com.tw



Site : NO.4 Shielded Room Data : 61  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768 / 75Hz 60kHz (DVI)  
S/N:0404812

	Freq.	LISN	Cable	Emission				
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB)	(dB)	(dB $\mu$ V)	(dB $\mu$ V)	(dB $\mu$ V)	(dB)	
1	0.158	0.28	0.20	37.91	38.39	65.58	27.19	QP
2	0.158	0.28	0.20	17.07	17.55	55.58	38.03	AVERAGE
3	0.255	0.16	0.22	32.94	33.33	61.60	28.27	QP
4	0.255	0.16	0.22	24.45	24.84	51.60	26.76	AVERAGE
5	3.190	0.10	0.55	30.06	30.71	56.00	25.29	QP
6	3.190	0.10	0.55	28.78	29.43	46.00	16.57	AVERAGE
7	5.103	0.10	0.62	37.66	38.38	60.00	21.62	QP
8	5.103	0.10	0.62	36.25	36.97	50.00	13.03	AVERAGE
9	8.292	0.10	0.67	44.59	45.36	60.00	14.64	QP
10	8.292	0.10	0.67	42.74	43.51	50.00	6.49	AVERAGE
11	9.182	0.10	0.69	43.49	44.28	60.00	15.72	QP
12	9.182	0.10	0.69	39.87	40.66	50.00	9.34	AVERAGE

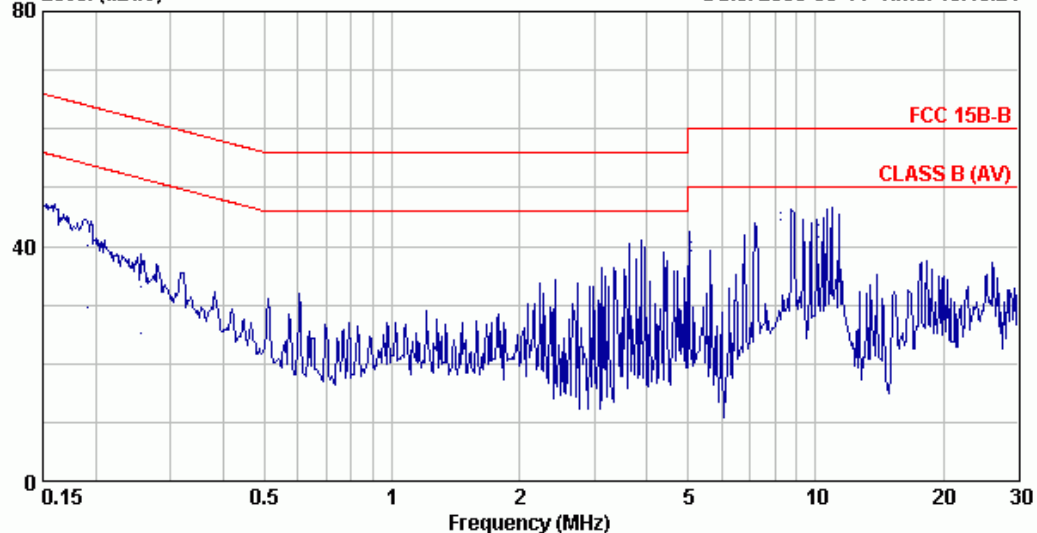
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





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Email:ttmc@ttmc.com.tw

Data: 63 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64)  
Level (dBuV) Date: 2005-03-11 Time: 15:18:21



Site : NO.4 Shielded Room Data : 63  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz 80kHz (DVI)  
S/N:0404812

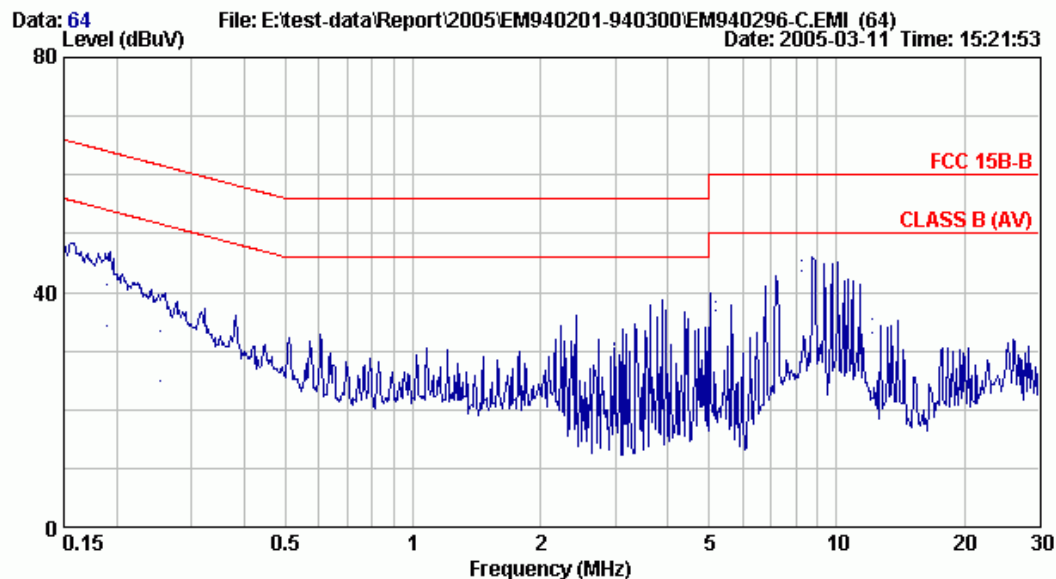
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.191	0.22	0.21	39.82	40.24	64.00	23.76	QP
2	0.191	0.22	0.21	29.13	29.55	54.00	24.45	AVERAGE
3	0.255	0.16	0.22	32.69	33.08	61.60	28.53	QP
4	0.255	0.16	0.22	24.95	25.34	51.60	26.27	AVERAGE
5	3.188	0.10	0.55	32.95	33.60	56.00	22.40	QP
6	3.188	0.10	0.55	31.23	31.88	46.00	14.12	AVERAGE
7	5.102	0.13	0.62	39.95	40.70	60.00	19.30	QP
8	5.102	0.13	0.62	38.53	39.28	50.00	10.72	AVERAGE
9	8.227	0.18	0.67	44.95	45.80	60.00	14.20	QP
10	8.227	0.18	0.67	43.64	44.49	50.00	5.51	AVERAGE
11	10.140	0.20	0.70	42.84	43.74	60.00	16.26	QP
12	10.140	0.20	0.70	40.67	41.57	50.00	8.43	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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Email:ttemc@ttemc.com.tw



Site : NO.4 Shielded Room Data : 64  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz 80kHz (DVI)  
S/N:0404812

	Freq.	LISN	Cable	Emission		Limits	Margin	Remark
	(MHz)	Factor	Loss	Reading	Level			
		(dB)	(dB)	(dB $\mu$ V)	(dB $\mu$ V)	(dB $\mu$ V)	(dB)	
1	0.190	0.22	0.21	40.79	41.22	64.06	22.84	QP
2	0.190	0.22	0.21	33.89	34.32	54.06	19.74	AVERAGE
3	0.253	0.17	0.22	33.00	33.39	61.64	28.26	QP
4	0.253	0.17	0.22	24.45	24.84	51.64	26.81	AVERAGE
5	2.983	0.10	0.53	30.59	31.22	56.00	24.78	QP
6	2.983	0.10	0.53	30.33	30.96	46.00	15.04	AVERAGE
7	5.165	0.10	0.62	37.76	38.48	60.00	21.52	QP
8	5.165	0.10	0.62	36.19	36.91	50.00	13.09	AVERAGE
9	8.291	0.10	0.67	44.69	45.46	60.00	14.54	QP
10	8.291	0.10	0.67	42.81	43.58	50.00	6.42	AVERAGE
11	12.120	0.15	0.70	34.62	35.47	60.00	24.53	QP
12	12.120	0.15	0.70	32.35	33.20	50.00	16.80	AVERAGE

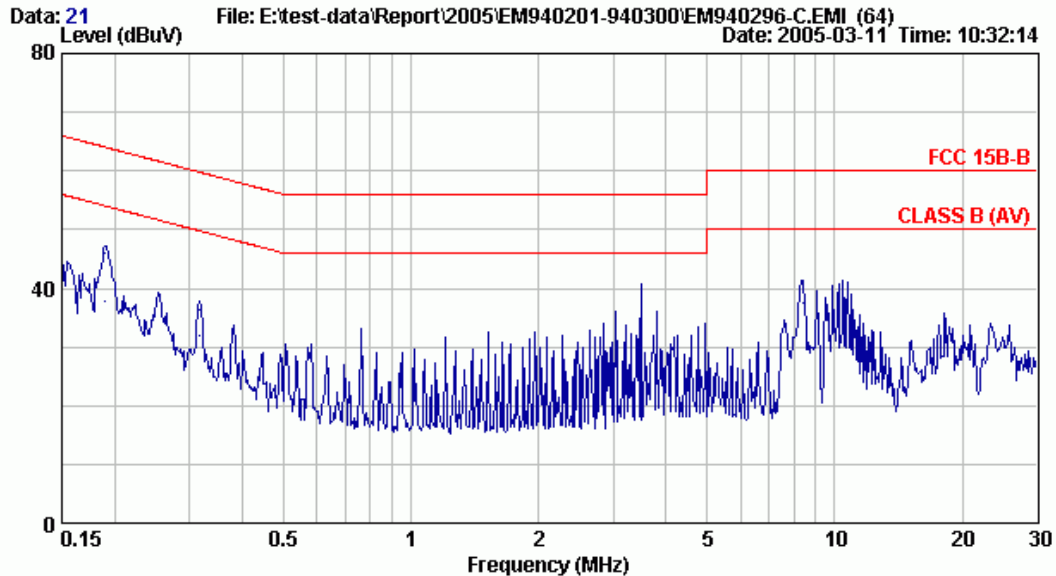
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



## 《M/N 190P6, LCD Panel : LG Philips + Lien Chang Power Board》



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Site : NO.4 Shielded Room Data : 21  
Condition : KMW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz 31kHz(D-SUB)  
S/N:0405016

		LISN	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)	
1	0.190	0.22	0.21	45.71	46.13	64.03	17.90	QP
2	0.190	0.22	0.21	37.35	37.77	54.03	16.26	AVERAGE
3	0.316	0.13	0.24	36.02	36.39	59.81	23.42	QP
4	0.316	0.13	0.24	31.71	32.08	49.81	17.73	AVERAGE
5	0.764	0.10	0.34	30.00	30.44	56.00	25.56	QP
6	0.764	0.10	0.34	26.29	26.73	46.00	19.27	AVERAGE
7	3.493	0.10	0.57	40.03	40.70	56.00	15.30	QP
8	3.493	0.10	0.57	37.88	38.55	46.00	7.45	AVERAGE
9	8.447	0.18	0.67	39.30	40.16	60.00	19.84	QP
10	8.447	0.18	0.67	36.72	37.58	50.00	12.42	AVERAGE
11	10.230	0.20	0.70	39.21	40.11	60.00	19.89	QP
12	10.230	0.20	0.70	37.69	38.59	50.00	11.41	AVERAGE

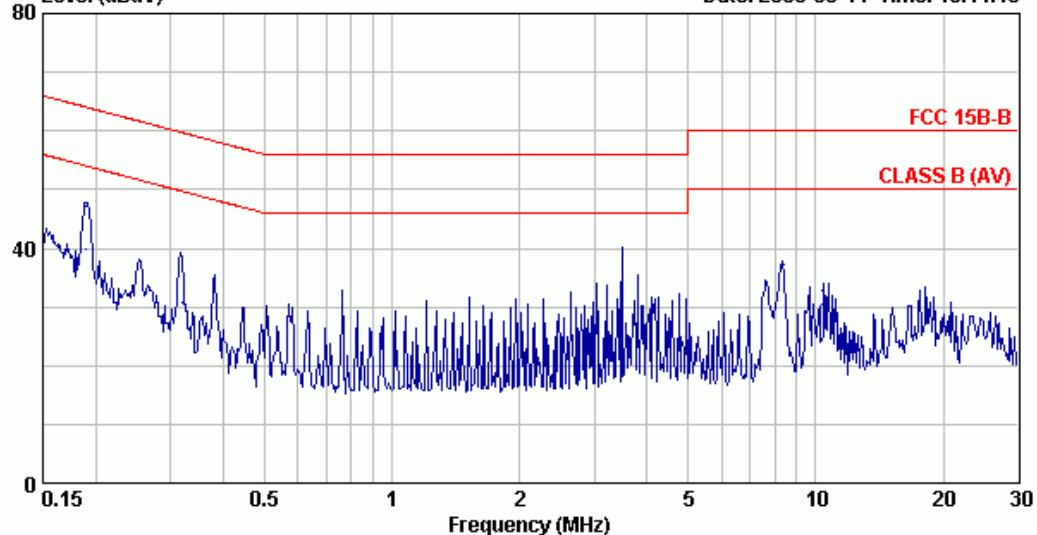
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





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Data: 22 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64)  
Level (dBuV) Date: 2005-03-11 Time: 10:41:13



Site : NO.4 Shielded Room Data : 22  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz 31kHz (D-SUB)  
S/N:0405016

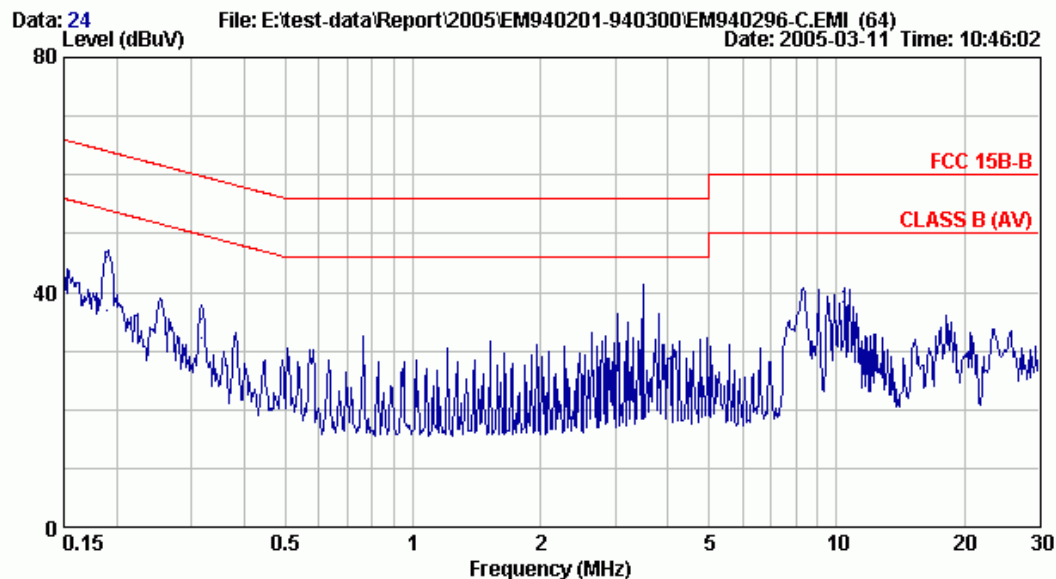
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.190	0.22	0.21	46.62	47.04	64.04	16.99	QP
2	0.190	0.22	0.21	39.56	39.98	54.04	14.05	AVERAGE
3	0.318	0.13	0.24	36.93	37.30	59.75	22.45	QP
4	0.318	0.13	0.24	30.48	30.85	49.75	18.90	AVERAGE
5	0.763	0.10	0.34	30.68	31.12	56.00	24.88	QP
6	0.763	0.10	0.34	26.74	27.18	46.00	18.82	AVERAGE
7	3.495	0.10	0.57	38.34	39.01	56.00	16.99	QP
8	3.495	0.10	0.57	36.61	37.28	46.00	8.72	AVERAGE
9	8.451	0.10	0.67	36.48	37.25	60.00	22.75	QP
10	8.451	0.10	0.67	32.94	33.71	50.00	16.29	AVERAGE
11	10.293	0.11	0.70	31.90	32.71	60.00	27.29	QP
12	10.293	0.11	0.70	29.54	30.35	50.00	19.65	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.4 Shielded Room Data : 24  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768 / 75Hz 60kHz (D-SUB)  
S/N:0405016

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.190	0.22	0.21	45.55	45.97	64.04	18.07	QP
2	0.190	0.22	0.21	36.46	36.88	54.04	17.16	AVERAGE
3	0.317	0.13	0.24	35.04	35.41	59.78	24.37	QP
4	0.317	0.13	0.24	31.81	32.18	49.78	17.60	AVERAGE
5	0.761	0.10	0.34	31.08	31.52	56.00	24.48	QP
6	0.761	0.10	0.34	27.36	27.80	46.00	18.20	AVERAGE
7	3.495	0.10	0.57	39.79	40.46	56.00	15.54	QP
8	3.495	0.10	0.57	37.30	37.97	46.00	8.03	AVERAGE
9	8.451	0.18	0.67	39.16	40.02	60.00	19.98	QP
10	8.451	0.18	0.67	37.25	38.11	50.00	11.89	AVERAGE
11	10.293	0.20	0.70	39.33	40.23	60.00	19.77	QP
12	10.293	0.20	0.70	37.58	38.48	50.00	11.52	AVERAGE

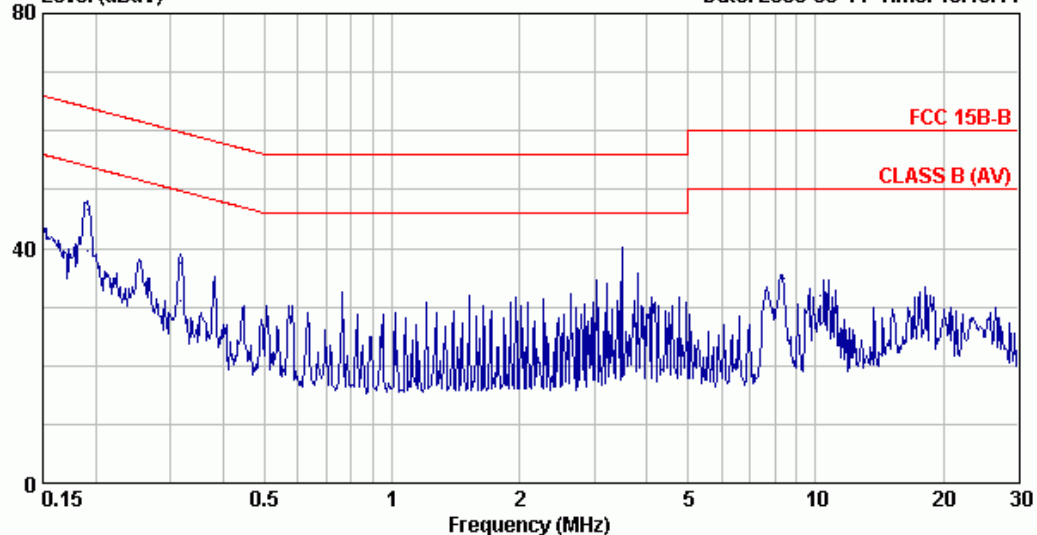
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector  
,the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.





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Data: 23 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64)  
Level (dBuV) Date: 2005-03-11 Time: 10:43:41



Site : NO.4 Shielded Room Data : 23  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768 / 75Hz 60kHz (D-SUB)  
S/N:0405016

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.191	0.21	0.21	46.16	46.58	63.98	17.40	QP
2	0.191	0.21	0.21	39.19	39.61	53.98	14.37	AVERAGE
3	0.316	0.13	0.24	37.09	37.46	59.81	22.35	QP
4	0.316	0.13	0.24	30.83	31.20	49.81	18.61	AVERAGE
5	0.761	0.10	0.34	30.68	31.12	56.00	24.88	QP
6	0.761	0.10	0.34	27.09	27.53	46.00	18.47	AVERAGE
7	3.494	0.10	0.57	39.04	39.71	56.00	16.29	QP
8	3.494	0.10	0.57	37.28	37.95	46.00	8.05	AVERAGE
9	8.449	0.10	0.67	34.18	34.95	60.00	25.05	QP
10	8.449	0.10	0.67	31.57	32.34	50.00	17.66	AVERAGE
11	10.227	0.11	0.70	31.08	31.89	60.00	28.11	QP
12	10.227	0.11	0.70	28.82	29.63	50.00	20.37	AVERAGE

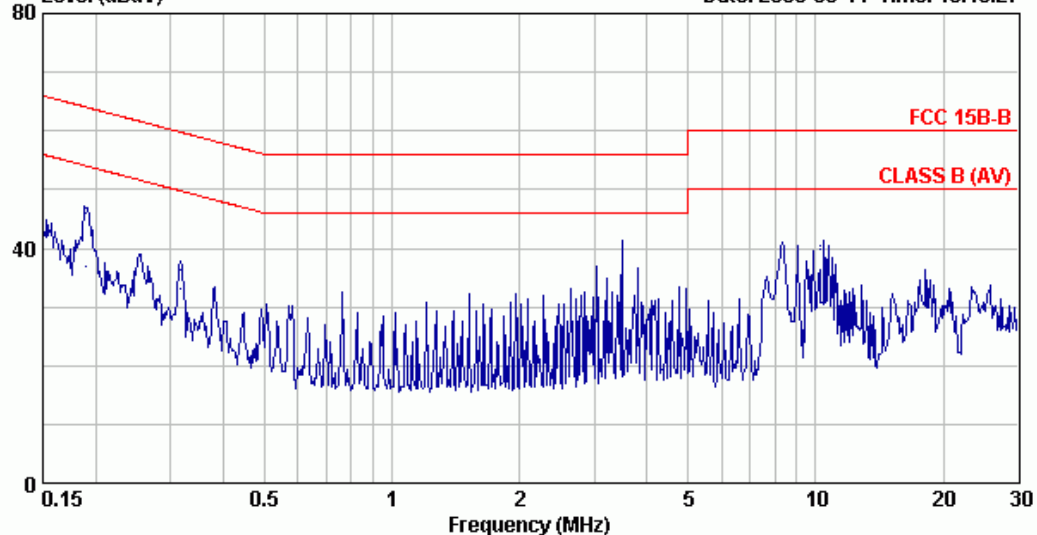
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector  
,the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.





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Data: 25 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64)  
Level (dBuV) Date: 2005-03-11 Time: 10:48:27



Site : NO.4 Shielded Room Data : 25  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz 80kHz (D-SUB)  
S/N:0405016

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.190	0.22	0.21	45.45	45.87	64.04	18.16	QP
2	0.190	0.22	0.21	36.45	36.87	54.04	17.16	AVERAGE
3	0.317	0.13	0.24	35.90	36.27	59.80	23.53	QP
4	0.317	0.13	0.24	32.83	33.20	49.80	16.60	AVERAGE
5	0.763	0.10	0.34	31.02	31.46	56.00	24.54	QP
6	0.763	0.10	0.34	27.40	27.84	46.00	18.16	AVERAGE
7	3.494	0.10	0.57	40.28	40.95	56.00	15.05	QP
8	3.494	0.10	0.57	38.49	39.16	46.00	6.84	AVERAGE
9	8.450	0.18	0.67	39.42	40.28	60.00	19.72	QP
10	8.450	0.18	0.67	37.81	38.67	50.00	11.33	AVERAGE
11	10.227	0.20	0.70	39.47	40.37	60.00	19.63	QP
12	10.227	0.20	0.70	39.08	39.98	50.00	10.02	AVERAGE

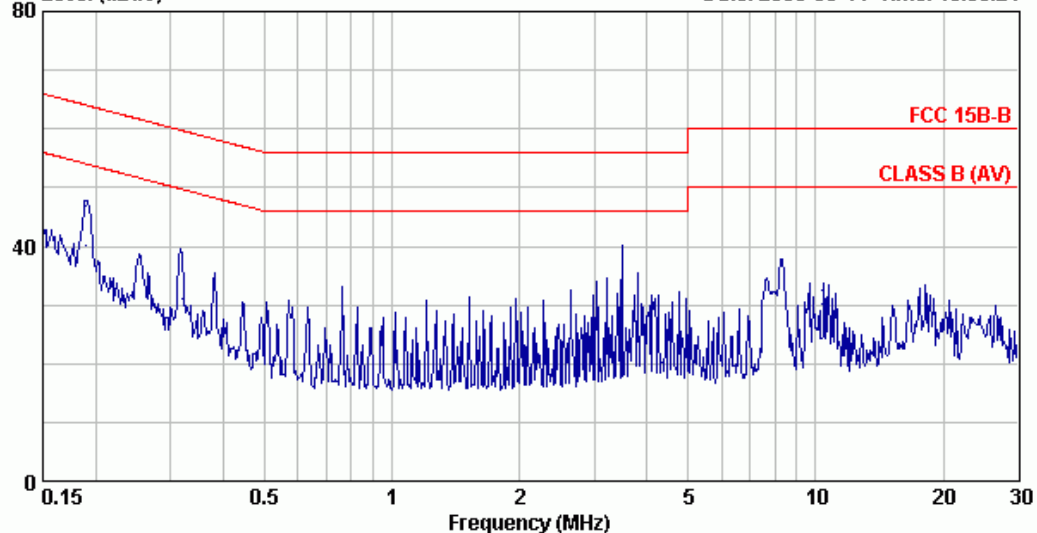
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector  
,the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.





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Data: 26 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64)  
Level (dBuV) Date: 2005-03-11 Time: 10:50:21



Site : NO.4 Shielded Room Data : 26  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz 80kHz (D-SUB)  
S/N:0405016

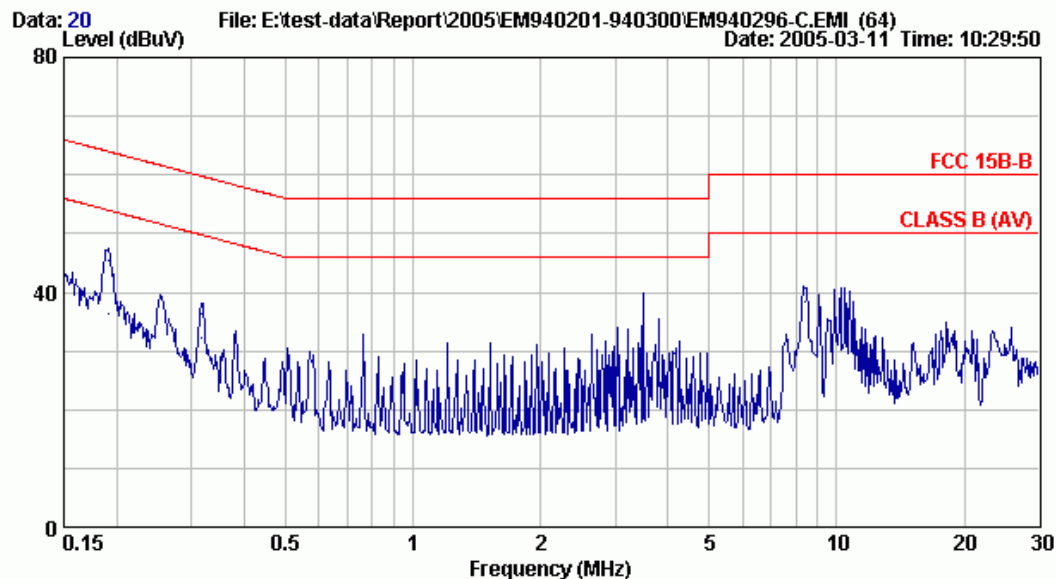
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.190	0.22	0.21	46.48	46.90	64.04	17.14	QP
2	0.190	0.22	0.21	39.66	40.08	54.04	13.96	AVERAGE
3	0.318	0.13	0.24	37.07	37.44	59.75	22.31	QP
4	0.318	0.13	0.24	30.73	31.10	49.75	18.65	AVERAGE
5	0.762	0.10	0.34	30.56	31.00	56.00	25.00	QP
6	0.762	0.10	0.34	26.58	27.02	46.00	18.98	AVERAGE
7	3.492	0.10	0.57	39.16	39.83	56.00	16.17	QP
8	3.492	0.10	0.57	37.48	38.15	46.00	7.85	AVERAGE
9	8.450	0.10	0.67	35.26	36.03	60.00	23.97	QP
10	8.450	0.10	0.67	33.19	33.96	50.00	16.04	AVERAGE
11	10.292	0.11	0.70	31.78	32.59	60.00	27.41	QP
12	10.292	0.11	0.70	29.35	30.16	50.00	19.84	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.4 Shielded Room Data : 20  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz 31kHz (DVI)  
S/N:0405016

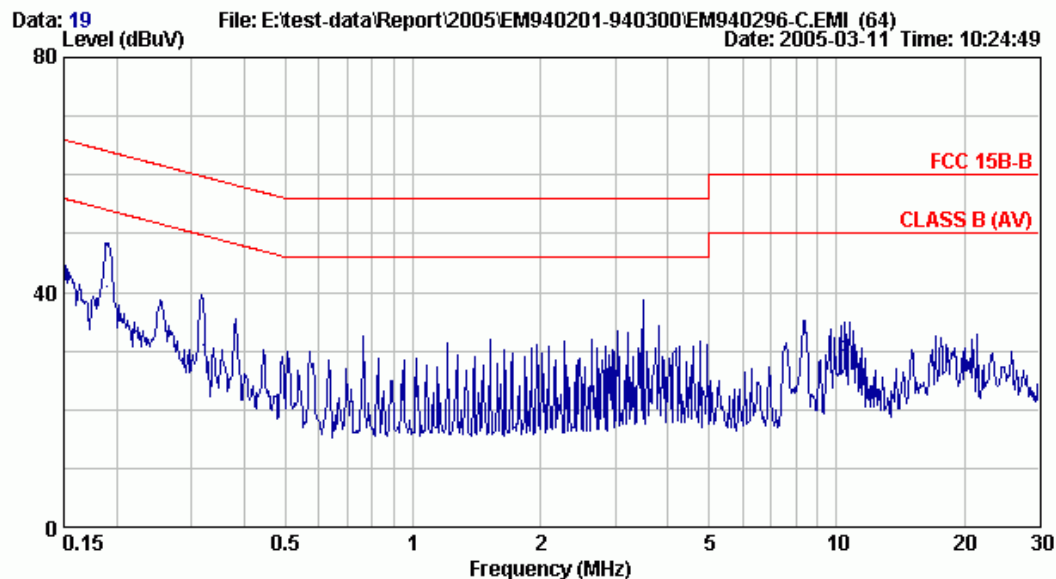
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.192	0.21	0.21	45.05	45.47	63.94	18.47	QP
2	0.192	0.21	0.21	35.81	36.23	53.94	17.71	AVERAGE
3	0.317	0.13	0.24	36.10	36.47	59.77	23.30	QP
4	0.317	0.13	0.24	31.82	32.19	49.77	17.58	AVERAGE
5	0.763	0.10	0.34	30.66	31.10	56.00	24.90	QP
6	0.763	0.10	0.34	27.08	27.52	46.00	18.48	AVERAGE
7	3.495	0.10	0.57	38.66	39.33	56.00	16.67	QP
8	3.495	0.10	0.57	36.20	36.87	46.00	9.13	AVERAGE
9	8.451	0.18	0.67	39.81	40.67	60.00	19.33	QP
10	8.451	0.18	0.67	37.64	38.50	50.00	11.50	AVERAGE
11	10.230	0.20	0.70	39.21	40.11	60.00	19.89	QP
12	10.230	0.20	0.70	37.64	38.54	50.00	11.46	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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Site : NO.4 Shielded Room Data : 19  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz 31kHz (DVI)  
S/N:0405016

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.189	0.22	0.21	47.58	48.01	64.09	16.09	QP
2	0.189	0.22	0.21	40.53	40.96	54.09	13.14	AVERAGE
3	0.319	0.13	0.24	37.07	37.44	59.74	22.31	QP
4	0.319	0.13	0.24	30.75	31.12	49.74	18.63	AVERAGE
5	0.763	0.10	0.34	30.56	31.00	56.00	25.00	QP
6	0.763	0.10	0.34	26.78	27.22	46.00	18.78	AVERAGE
7	3.495	0.10	0.57	36.94	37.61	56.00	18.39	QP
8	3.495	0.10	0.57	34.82	35.49	46.00	10.51	AVERAGE
9	8.451	0.10	0.67	34.46	35.23	60.00	24.77	QP
10	8.451	0.10	0.67	32.27	33.04	50.00	16.96	AVERAGE
11	10.293	0.11	0.70	30.86	31.67	60.00	28.33	QP
12	10.293	0.11	0.70	29.50	30.31	50.00	19.69	AVERAGE

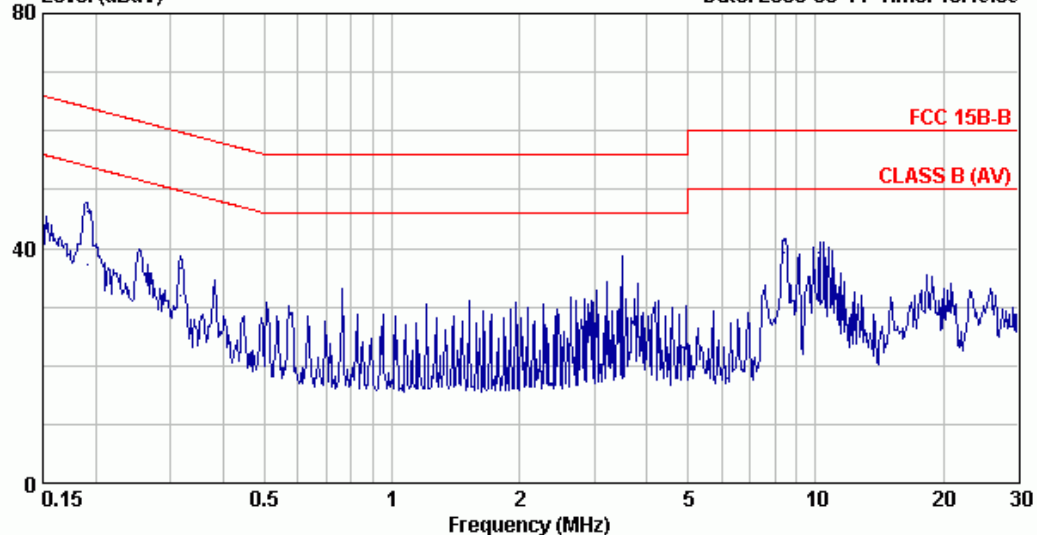
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





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Data: 17 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64)  
Level (dBuV) Date: 2005-03-11 Time: 10:19:09



Site : NO.4 Shielded Room Data : 17  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768 / 75Hz 60kHz (DVI)  
S/N:0405016

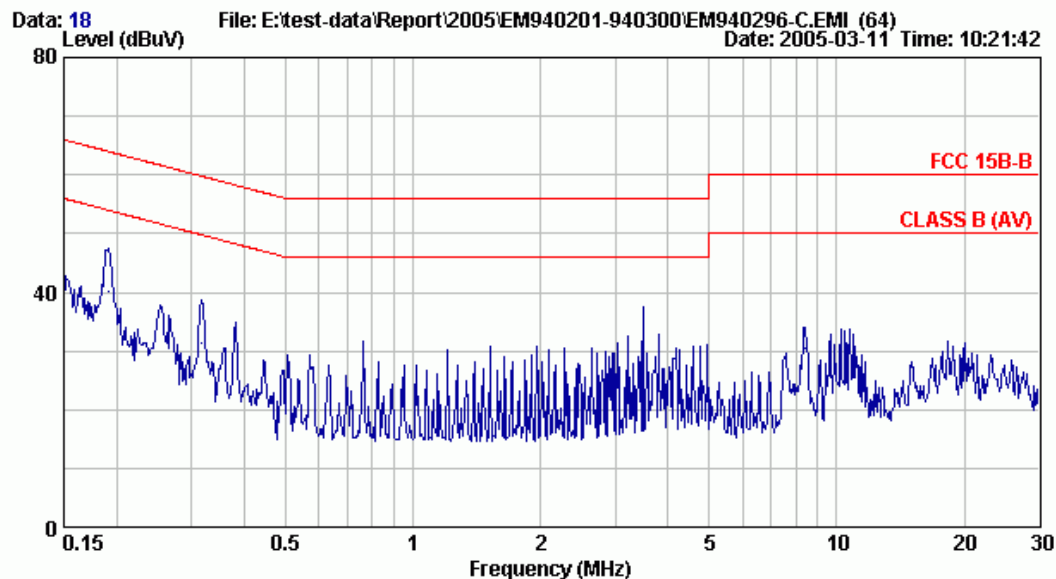
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.191	0.21	0.21	46.00	46.42	64.00	17.57	QP
2	0.191	0.21	0.21	36.89	37.31	54.00	16.68	AVERAGE
3	0.316	0.13	0.24	36.16	36.53	59.82	23.29	QP
4	0.316	0.13	0.24	31.58	31.95	49.82	17.87	AVERAGE
5	0.762	0.10	0.34	31.94	32.38	56.00	23.62	QP
6	0.762	0.10	0.34	27.38	27.82	46.00	18.18	AVERAGE
7	3.494	0.10	0.57	37.50	38.17	56.00	17.83	QP
8	3.494	0.10	0.57	35.28	35.95	46.00	10.05	AVERAGE
9	8.454	0.18	0.67	40.73	41.59	60.00	18.41	QP
10	8.454	0.18	0.67	38.38	39.24	50.00	10.76	AVERAGE
11	10.168	0.20	0.70	38.37	39.27	60.00	20.73	QP
12	10.168	0.20	0.70	36.53	37.43	50.00	12.57	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.4 Shielded Room Data : 18  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768 / 75Hz 60kHz (DVI)  
S/N:0405016

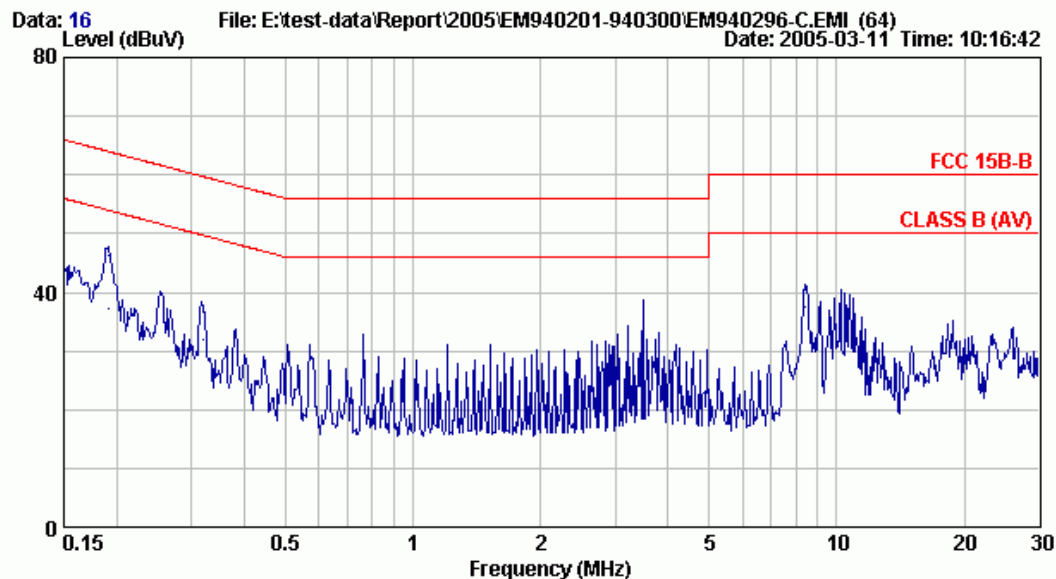
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.191	0.21	0.21	46.74	47.16	63.98	16.82	QP
2	0.191	0.21	0.21	39.63	40.05	53.98	13.93	AVERAGE
3	0.317	0.13	0.24	37.62	37.99	59.78	21.79	QP
4	0.317	0.13	0.24	31.04	31.41	49.78	18.37	AVERAGE
5	0.762	0.10	0.34	30.26	30.70	56.00	25.30	QP
6	0.762	0.10	0.34	26.64	27.08	46.00	18.92	AVERAGE
7	3.492	0.10	0.57	36.83	37.50	56.00	18.50	QP
8	3.492	0.10	0.57	35.36	36.03	46.00	9.97	AVERAGE
9	8.452	0.10	0.67	32.57	33.34	60.00	26.66	QP
10	8.452	0.10	0.67	29.67	30.44	50.00	19.56	AVERAGE
11	10.230	0.11	0.70	31.48	32.29	60.00	27.71	QP
12	10.230	0.11	0.70	28.92	29.73	50.00	20.27	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.4 Shielded Room Data : 16  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz 80kHz (DVI)  
S/N:0405016

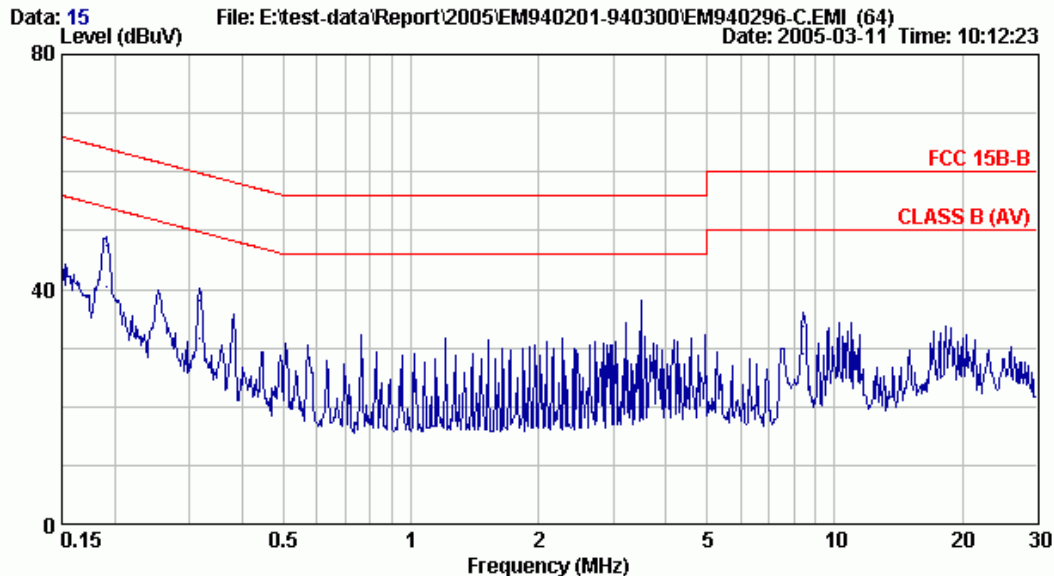
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.191	0.21	0.21	45.98	46.40	63.97	17.57	QP
2	0.191	0.21	0.21	36.80	37.22	53.97	16.75	AVERAGE
3	0.319	0.13	0.24	36.12	36.49	59.74	23.26	QP
4	0.319	0.13	0.24	31.55	31.92	49.74	17.83	AVERAGE
5	0.764	0.10	0.34	30.04	30.48	56.00	25.52	QP
6	0.764	0.10	0.34	26.54	26.98	46.00	19.02	AVERAGE
7	3.493	0.10	0.57	36.24	36.91	56.00	19.09	QP
8	3.493	0.10	0.57	32.20	32.87	46.00	13.13	AVERAGE
9	8.454	0.18	0.67	39.57	40.43	60.00	19.57	QP
10	8.454	0.18	0.67	36.69	37.55	50.00	12.45	AVERAGE
11	10.235	0.20	0.70	38.53	39.43	60.00	20.57	QP
12	10.235	0.20	0.70	36.86	37.76	50.00	12.24	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.4 Shielded Room Data : 15  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz 80kHz (DVI)  
S/N:0405016

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.191	0.21	0.21	47.12	47.54	63.98	16.44	QP
2	0.191	0.21	0.21	39.95	40.37	53.98	13.61	AVERAGE
3	0.316	0.13	0.24	37.84	38.21	59.81	21.60	QP
4	0.316	0.13	0.24	31.40	31.77	49.81	18.04	AVERAGE
5	0.760	0.10	0.34	29.74	30.18	56.00	25.82	QP
6	0.760	0.10	0.34	26.08	26.52	46.00	19.48	AVERAGE
7	3.492	0.10	0.57	36.13	36.80	56.00	19.20	QP
8	3.492	0.10	0.57	31.97	32.64	46.00	13.36	AVERAGE
9	8.454	0.10	0.67	32.87	33.64	60.00	26.36	QP
10	8.454	0.10	0.67	28.11	28.88	50.00	21.12	AVERAGE
11	10.236	0.11	0.70	31.52	32.33	60.00	27.67	QP
12	10.236	0.11	0.70	29.22	30.03	50.00	19.97	AVERAGE

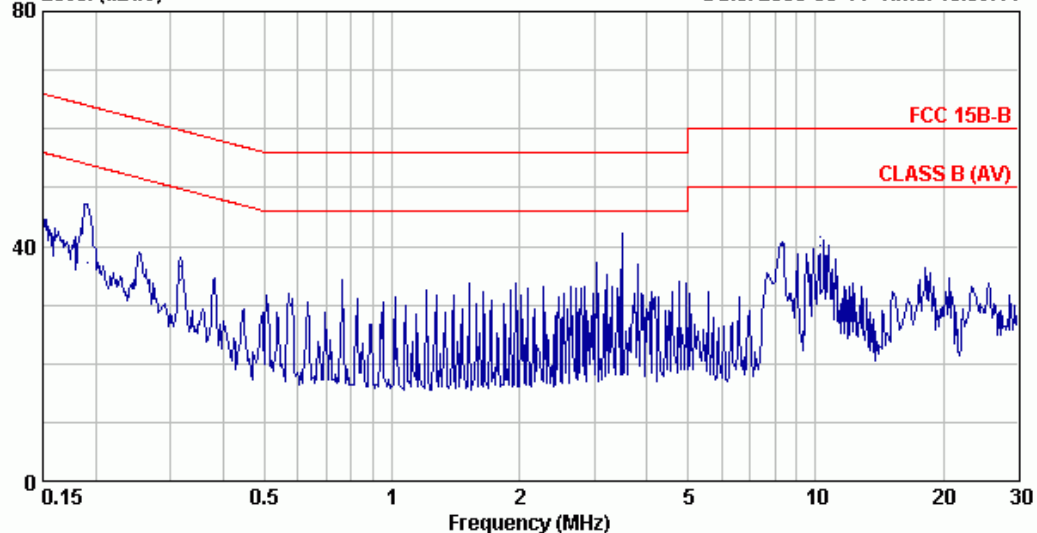
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





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Data: 28 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64) Date: 2005-03-11 Time: 10:59:11



Site : NO.4 Shielded Room Data : 28  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*1280 / 60Hz (DVI)  
S/N:0405016  
ROTATE

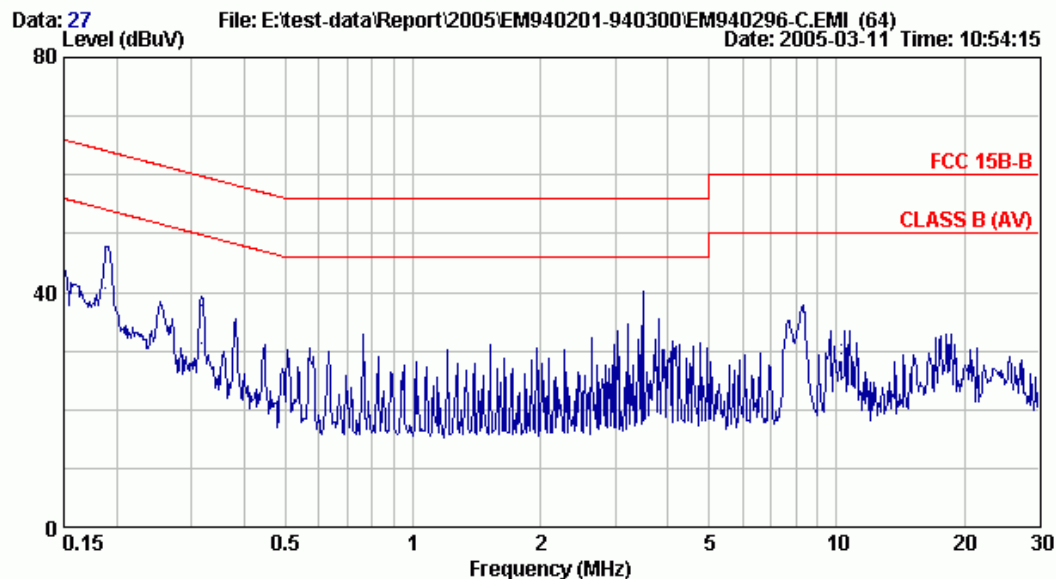
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.191	0.21	0.21	46.23	46.65	63.98	17.33	QP
2	0.191	0.21	0.21	36.69	37.11	53.98	16.87	AVERAGE
3	0.318	0.13	0.24	36.24	36.61	59.77	23.16	QP
4	0.318	0.13	0.24	33.94	34.31	49.77	15.46	AVERAGE
5	0.761	0.10	0.34	32.84	33.28	56.00	22.72	QP
6	0.761	0.10	0.34	30.53	30.97	46.00	15.03	AVERAGE
7	3.495	0.10	0.57	40.87	41.54	56.00	14.46	QP
8	3.495	0.10	0.57	38.63	39.30	46.00	6.70	AVERAGE
9	8.449	0.18	0.67	39.53	40.39	60.00	19.61	QP
10	8.449	0.18	0.67	39.27	40.13	50.00	9.87	AVERAGE
11	10.227	0.20	0.70	40.64	41.54	60.00	18.46	QP
12	10.227	0.20	0.70	39.22	40.12	50.00	9.88	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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Email:ttmc@ttmc.com.tw



Site : NO.4 Shielded Room Data : 27  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*1280 / 60Hz (DVI)  
S/N:0405016  
ROTATE

	Freq.	LISN	Cable	Emission				
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB)	(dB)	(dB $\mu$ V)	(dB $\mu$ V)	(dB $\mu$ V)	(dB)	
1	0.189	0.22	0.21	46.30	46.73	64.10	17.37	QP
2	0.189	0.22	0.21	40.23	40.66	54.10	13.44	AVERAGE
3	0.317	0.13	0.24	37.29	37.66	59.78	22.12	QP
4	0.317	0.13	0.24	31.03	31.40	49.78	18.38	AVERAGE
5	0.761	0.10	0.34	29.48	29.92	56.00	26.08	QP
6	0.761	0.10	0.34	25.37	25.81	46.00	20.19	AVERAGE
7	3.494	0.10	0.57	39.06	39.73	56.00	16.27	QP
8	3.494	0.10	0.57	38.48	39.15	46.00	6.85	AVERAGE
9	8.450	0.10	0.67	35.89	36.66	60.00	23.34	QP
10	8.450	0.10	0.67	33.27	34.04	50.00	15.96	AVERAGE
11	10.227	0.11	0.70	30.12	30.93	60.00	29.07	QP
12	10.227	0.11	0.70	28.78	29.59	50.00	20.41	AVERAGE

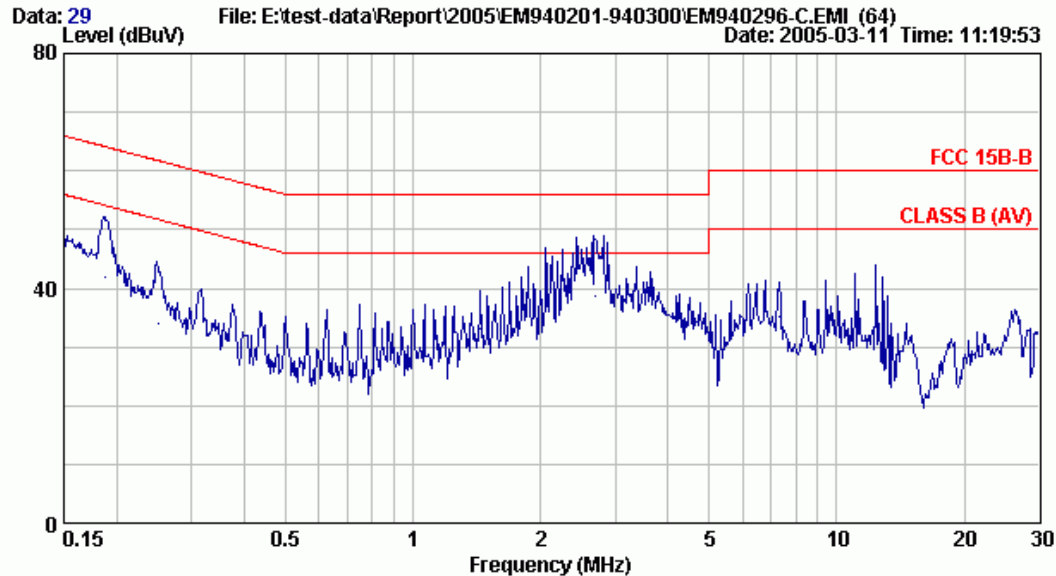
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



## 《M/N 190S6, LCD Panel : LG Philips + Delta Power Board》



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Site : NO.4 Shielded Room Data : 29  
Condition : KMW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz 31kHz  
S/N:0404799

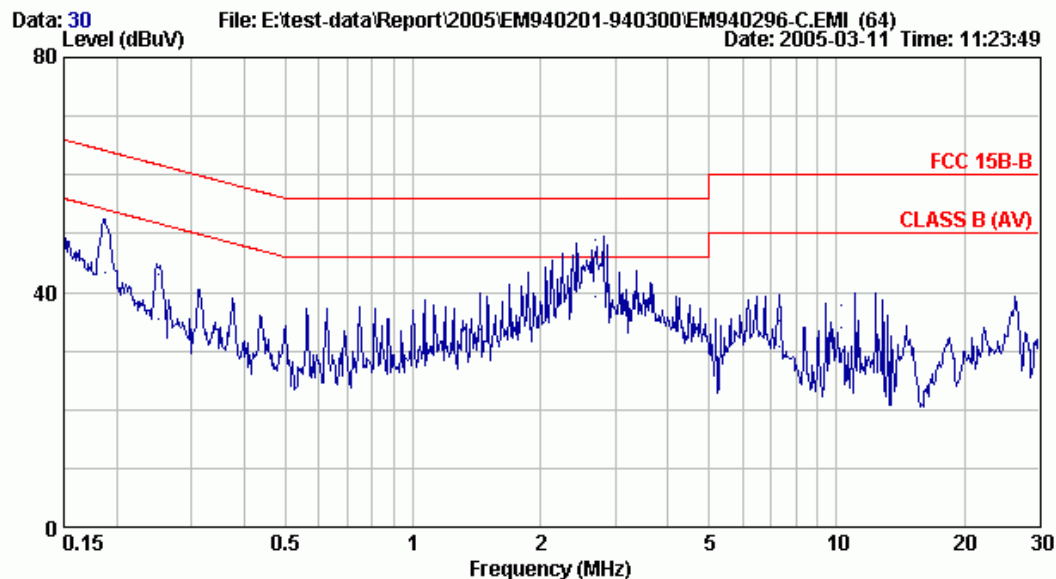
		LISN	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)	
1	0.188	0.22	0.21	51.01	51.44	64.13	12.69	QP
2	0.188	0.22	0.21	41.50	41.93	54.13	12.20	AVERAGE
3	0.250	0.17	0.22	42.27	42.66	61.75	19.09	QP
4	0.250	0.17	0.22	33.52	33.91	51.75	17.84	AVERAGE
5	1.440	0.10	0.43	38.28	38.81	56.00	17.19	QP
6	1.440	0.10	0.43	32.71	33.24	46.00	12.76	AVERAGE
7	2.691	0.10	0.51	47.72	48.33	56.00	7.67	QP
8	2.691	0.10	0.51	38.19	38.80	46.00	7.20	AVERAGE
9	7.326	0.17	0.66	38.79	39.61	60.00	20.39	QP
10	7.326	0.17	0.66	34.45	35.27	50.00	14.73	AVERAGE
11	12.398	0.20	0.70	42.38	43.28	60.00	16.72	QP
12	12.398	0.20	0.70	39.05	39.95	50.00	10.05	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.4 Shielded Room Data : 30  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:19086  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz 31kHz  
S/N:0404799

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.188	0.22	0.21	51.59	52.02	64.11	12.09	QP
2	0.188	0.22	0.21	42.99	43.42	54.11	10.69	AVERAGE
3	0.251	0.17	0.22	42.69	43.08	61.71	18.63	QP
4	0.251	0.17	0.22	35.16	35.55	51.71	16.16	AVERAGE
5	1.439	0.10	0.43	37.32	37.85	56.00	18.15	QP
6	1.439	0.10	0.43	33.16	33.69	46.00	12.31	AVERAGE
7	2.694	0.10	0.51	48.22	48.83	56.00	7.17	QP
8	2.694	0.10	0.51	38.51	39.12	46.00	6.88	AVERAGE
9	7.324	0.10	0.66	34.55	35.31	60.00	24.69	QP
10	7.324	0.10	0.66	30.11	30.87	50.00	19.13	AVERAGE
11	10.268	0.11	0.70	37.03	37.84	60.00	22.16	QP
12	10.268	0.11	0.70	33.26	34.07	50.00	15.93	AVERAGE

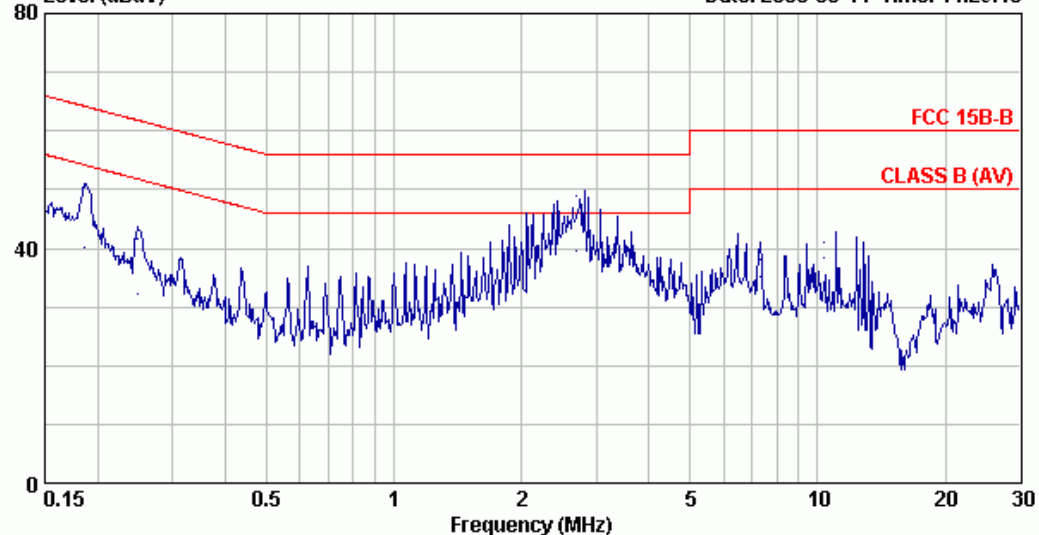
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





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Email:temc@temc.com.tw

Data: 32 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64)  
Level (dBuV) Date: 2005-03-11 Time: 11:29:43



Site : NO.4 Shielded Room Data : 32  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:19086  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768 / 75Hz 60kHz  
S/N:0404799

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.187	0.22	0.21	49.96	50.39	64.19	13.80	QP
2	0.187	0.22	0.21	39.75	40.18	54.19	14.01	AVERAGE
3	0.249	0.17	0.22	41.09	41.48	61.80	20.32	QP
4	0.249	0.17	0.22	31.90	32.29	51.80	19.51	AVERAGE
5	1.442	0.10	0.43	37.67	38.20	56.00	17.80	QP
6	1.442	0.10	0.43	31.68	32.21	46.00	13.79	AVERAGE
7	2.691	0.10	0.51	48.38	48.99	56.00	7.01	QP
8	2.691	0.10	0.51	38.88	39.49	46.00	6.51	AVERAGE
9	7.327	0.17	0.66	37.42	38.24	60.00	21.76	QP
10	7.327	0.17	0.66	34.31	35.13	50.00	14.87	AVERAGE
11	10.330	0.20	0.70	40.03	40.93	60.00	19.07	QP
12	10.330	0.20	0.70	37.58	38.48	50.00	11.52	AVERAGE

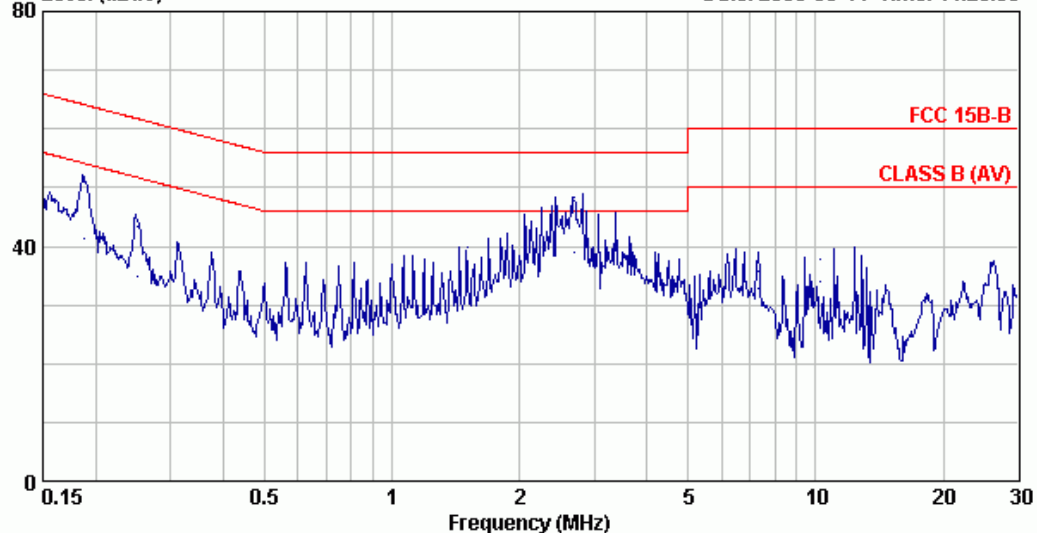
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector  
,the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.





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Email:ttmc@ttmc.com.tw

Data: 31 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64)  
Level (dBuV) Date: 2005-03-11 Time: 11:26:36



Site : NO.4 Shielded Room Data : 31  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:19086  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768 / 75Hz 60kHz  
S/N:0404799

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.188	0.22	0.21	50.55	50.98	64.13	13.15	QP
2	0.188	0.22	0.21	40.98	41.41	54.13	12.72	AVERAGE
3	0.250	0.17	0.22	42.96	43.35	61.75	18.40	QP
4	0.250	0.17	0.22	34.53	34.92	51.75	16.83	AVERAGE
5	1.503	0.10	0.43	39.23	39.76	56.00	16.24	QP
6	1.503	0.10	0.43	35.91	36.44	46.00	9.56	AVERAGE
7	2.691	0.10	0.51	47.88	48.49	56.00	7.51	QP
8	2.691	0.10	0.51	38.43	39.04	46.00	6.96	AVERAGE
9	7.327	0.10	0.66	35.12	35.88	60.00	24.12	QP
10	7.327	0.10	0.66	31.98	32.74	50.00	17.26	AVERAGE
11	10.268	0.11	0.70	36.86	37.67	60.00	22.33	QP
12	10.268	0.11	0.70	33.17	33.98	50.00	16.02	AVERAGE

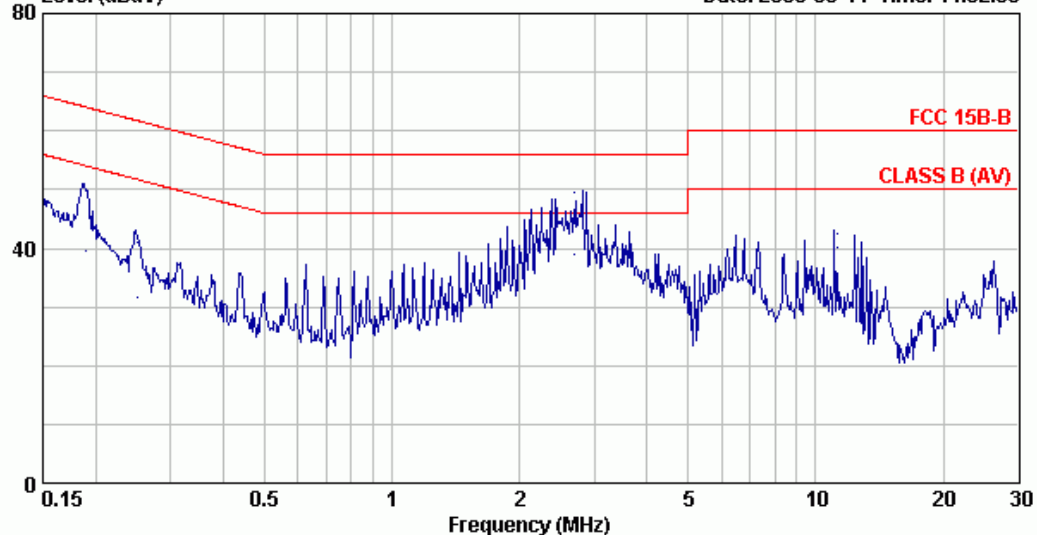
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector  
,the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.





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Data: 33 File: E:\test-data\Report\2005\EM940201-940300\EM940296-C.EMI (64)  
Level (dBuV) Date: 2005-03-11 Time: 11:32:08



Site : NO.4 Shielded Room Data : 33  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:19086  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz 80kHz  
S/N:0404799

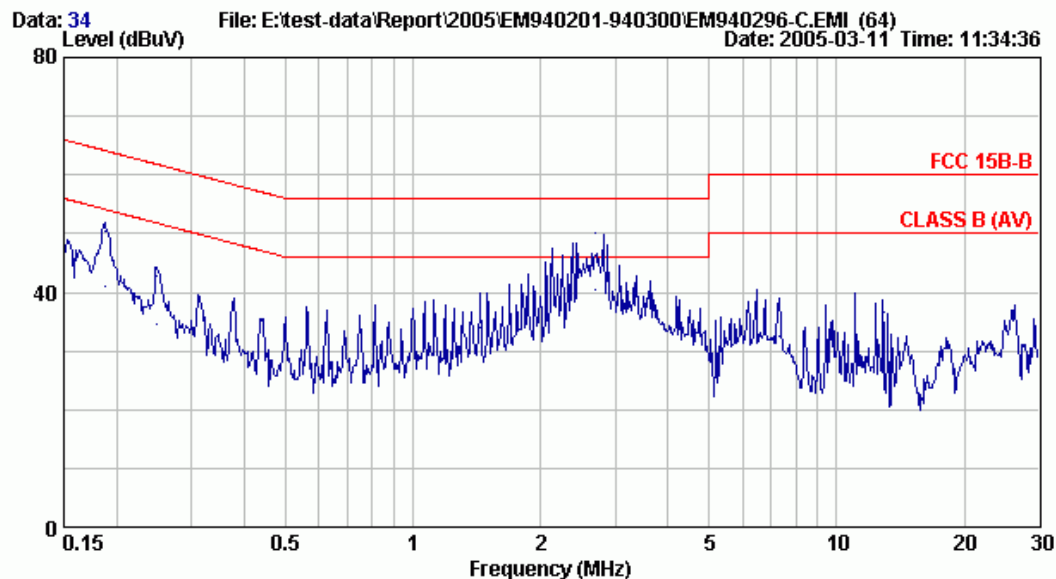
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
1	0.189	0.22	0.21	49.28	49.71	64.10	14.39	QP
2	0.189	0.22	0.21	38.99	39.42	54.10	14.68	AVERAGE
3	0.251	0.17	0.22	40.68	41.07	61.73	20.66	QP
4	0.251	0.17	0.22	31.22	31.61	51.73	20.12	AVERAGE
5	1.439	0.10	0.43	37.65	38.18	56.00	17.82	QP
6	1.439	0.10	0.43	32.57	33.10	46.00	12.90	AVERAGE
7	2.694	0.10	0.51	49.04	49.65	56.00	6.35	QP
8	2.694	0.10	0.51	38.50	39.11	46.00	6.89	AVERAGE
9	7.325	0.17	0.66	38.65	39.47	60.00	20.53	QP
10	7.325	0.17	0.66	35.83	36.65	50.00	13.35	AVERAGE
11	11.208	0.20	0.70	41.50	42.40	60.00	17.60	QP
12	11.208	0.20	0.70	39.27	40.17	50.00	9.83	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.4 Shielded Room Data : 34  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 18°C/72% ESHS10 Engineer: Alex Yen  
EUT : Flat Panel Color Monitor M/N:19086  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz 80kHz  
S/N:0404799

	Freq.	LISN	Cable	Emission				
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB)	(dB)	(dB $\mu$ V)	(dB $\mu$ V)	(dB $\mu$ V)	(dB)	
1	0.188	0.22	0.21	50.02	50.45	64.13	13.68	QP
2	0.188	0.22	0.21	40.56	40.99	54.13	13.14	AVERAGE
3	0.249	0.17	0.22	42.41	42.80	61.80	19.00	QP
4	0.249	0.17	0.22	34.31	34.70	51.80	17.10	AVERAGE
5	1.439	0.10	0.43	38.21	38.74	56.00	17.26	QP
6	1.439	0.10	0.43	33.51	34.04	46.00	11.96	AVERAGE
7	2.693	0.10	0.51	49.58	50.19	56.00	5.81	QP
8	2.693	0.10	0.51	39.85	40.46	46.00	5.54	AVERAGE
9	7.326	0.10	0.66	36.65	37.41	60.00	22.59	QP
10	7.326	0.10	0.66	31.79	32.55	50.00	17.45	AVERAGE
11	12.960	0.16	0.70	35.70	36.56	60.00	23.44	QP
12	12.960	0.16	0.70	31.73	32.59	50.00	17.41	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 :

##### 3.1.1. For 30MHz~1000MHz Frequency (at No. 4 Open Area Test Site)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000134	Jul.04, 04'	Jul.03, 05'
2.	Test Receiver	Rohde&Schwarz	ESVS10	845165/018	Jun.14, 04'	Jun.13, 05'
3.	Broadband Antenna	Chase	VBA6106A	1263	Nov.15, 04'	Nov.14, 05'
4.	Log Periodic Antenna	Chase	UPA6109	1020	Nov.15, 04'	Nov.14, 05'

##### 3.1.2. For 30MHz~1000MHz Frequency (at Simple Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Anritsu	MS2601B	MT73069	Jul. 27, 04'	Jul. 26, 05'
2.	Pre-Amplifier	HP	8447D	2944A06669	Jul. 27, 04'	Jul. 26, 05'
3.	Bilog Antenna (30-2000MHz)	Schwarzbeck	CBL6112B	2818	May 18, 04'	May 17, 05'

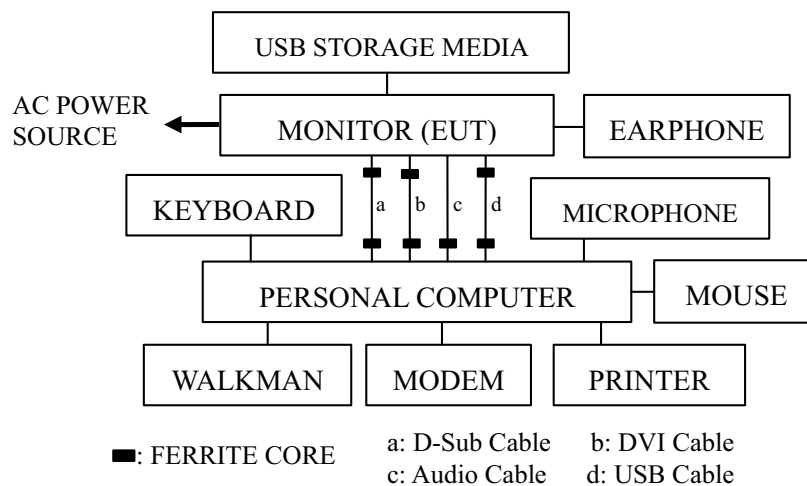
##### 3.1.3. Above 1GHz Frequency (at No. 4 Open Area Test Site)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00272	Jun.07, 04'	Jun 06, 05'
2.	Amplifier	HP	8449B	3008A01284	Jul.02, 04'	Jul.01, 05'
3.	Horn Antenna	EMCO	3115	9609-4927	Jul.06, 04'	Jul.05, 05'

#### 3.2. Block Diagram of Test Setup

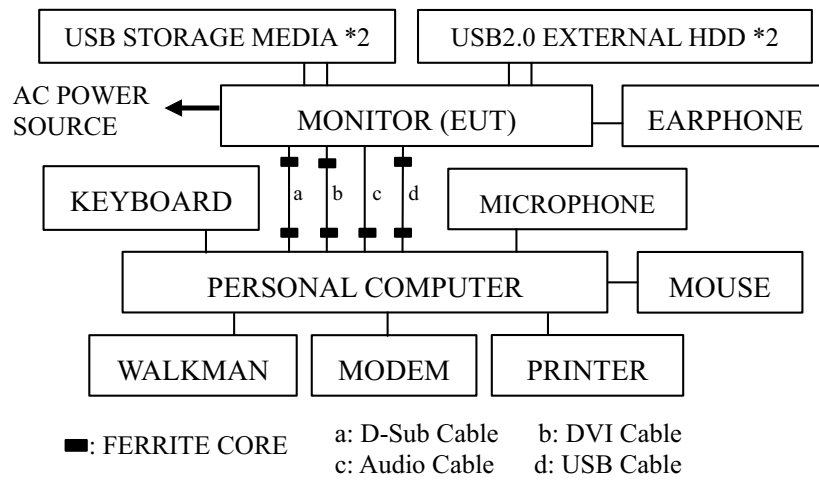
##### 3.2.1. Block Diagram of connection between EUT and simulators

###### 3.2.1.1. M/N 190B5

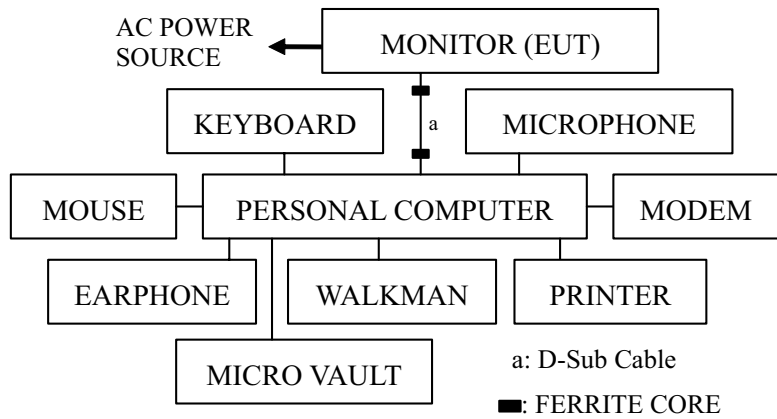




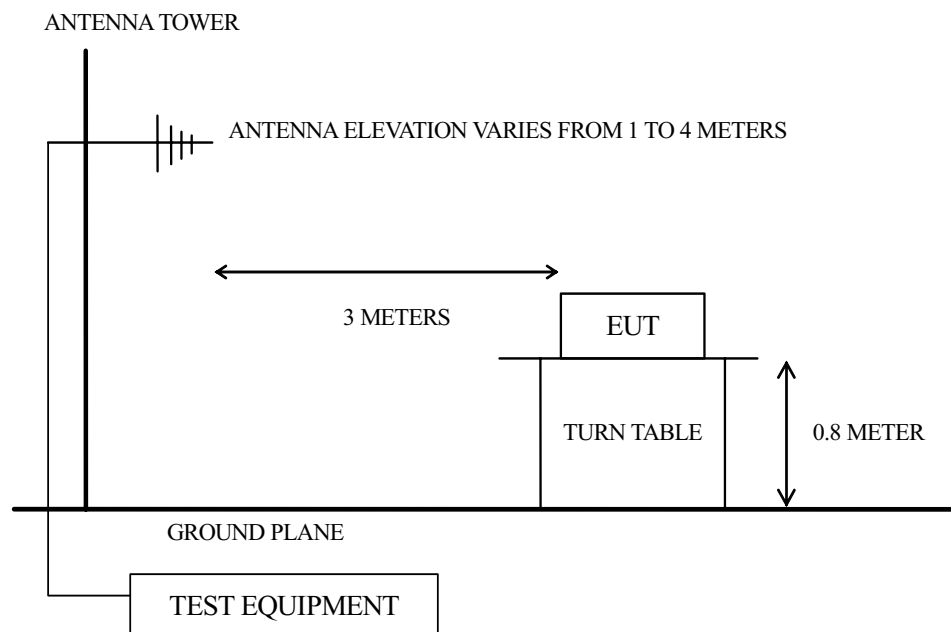
### 3.2.1.2. M/N 190P5



### 3.2.1.3. M/N 190S6

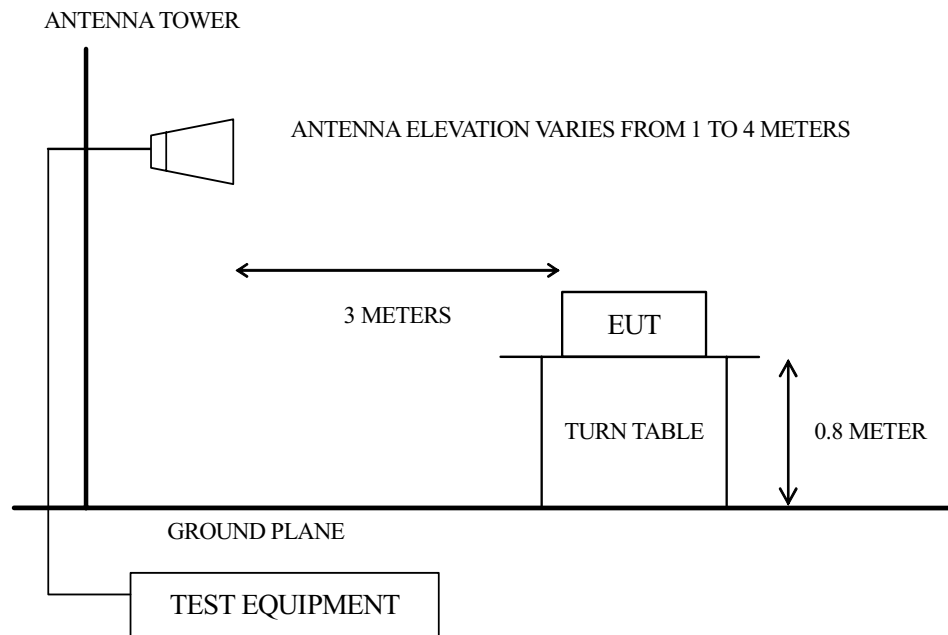


### 3.2.2. Simple Anechoic Chamber (3m) for 30-1000MHz & Open Area Test Site Setup Diagram (10m) for 30-1000MHz





### 3.2.3. Open Area Test Site Setup Diagram (3m) for above 1GHz



### 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 $\mu$ V/m)
30 ~ 230	10 (3)	30 (40)
230 ~ 1000	10 (3)	37 (47)
1000 ~ 2000	3	74.0 (Peak)
1000 ~ 2000	3	54.0 (Average)

- 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) There is no over 1GHz limits in CISPR 22 standard. Therefor, a FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.109 (g).
  - (4) 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 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

- 3.6.1. For Frequency Range 30MHz-1000MHz measurement at distance of 3m at simple anechoic chamber and 10m at open area test site:

The EUT and its simulators were 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 3 or 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 at open area test site, bilog antenna at simple anechoic chamber) 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 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 at simple anechoic chamber and all final readings of measurement were with Quasi-Peak detector at open area test site.

- 3.6.2. For Frequency Range 1GHz-2GHz measurement at distance of 3m at open area test site:

The EUT and its simulators were placed on a turn table which was 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level, EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna was fixed at 1 meter high (maximum emission level receiving position) above the ground. A calibrated Horn Antenna was used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement, and both average and peak emission level were recorded form spectrum analyzer. In order to find the maximum emission level, all the interface cables were manipulated according to ANSI C63.4-2003 on radiated measurement.

The resolution bandwidth of spectrum analyzer 8593EM was set at 1MHz.

The frequency range from 1GHz to 2GHz was pre-scanned and all final readings of measurement were with Peak detector and Average detector at open area test site.



### 3.7. Radiated Emission Measurement Results

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

#### For 30~1000MHz Frequency Range

EUT with following test modes were measured within Simple Anechoic Chamber and all the scanning wave form were attached within Appendix II.

Test Date : Mar. 09, 2005    Temperature : 24°C    Humidity : 40%

Test Date : Mar. 10, 2005    Temperature : 23°C    Humidity : 45%

The details of test modes are as follows :

Mode	Model No. (Serial No.)	LCD Panel (Power Board)	Panel's Angle	Data Cable	Frequency / Resolution.	Reference Test Data No.	
						Horizontal	Vertical
1.	190B6 (TY0404812)	AUO, (Lien Chang)	0°	D-Sub	640*480/60Hz, 31kHz	# 7	# 8
2.					1024*768/75Hz, 60kHz	# 10	# 9
3.					1280*1024/75Hz, 80kHz	# 11	# 12
4.				DVI	640*480/60Hz, 31kHz	# 14	# 13
5.					1024*768/75Hz, 60kHz	# 15	# 16
6.					<b>1280*1024/75Hz, 80kHz</b>	<b># 18</b>	<b># 17</b>
7.	190P6 (TY0405016)	LG Philips, (Lien Chang)	0°	D-Sub	640*480/60Hz, 31kHz	# 25	# 26
8.					1024*768/75Hz, 60kHz	# 28	# 27
9.					1280*1024/75Hz, 80kHz	# 29	# 30
10.				DVI	640*480/60Hz, 31kHz	# 24	# 23
11.					1024*768/75Hz, 60kHz	# 21	# 22
12.					<b>1280*1024/75Hz, 80kHz</b>	<b># 20</b>	<b># 19</b>
13.			Rotate 90°	DVI	1280*1024/75Hz, 80kHz	# 32	# 31
14.	190S6 (TY0404799)	LG Philips, (Delta)	0°		640*480/60Hz, 31kHz	# 6	# 5
15.				D-Sub	1024*768/75Hz, 60kHz	# 3	# 4
16.					<b>1280*1024/75Hz, 80kHz</b>	<b># 2</b>	<b># 1</b>



Finally, re-measured the test modes (Mode 6, 12, 16) at No 4 Open Area Test Site and all the test results are attached in section 3.7.1.

Test Date : Mar. 10, 2005    Temperature : 21°C    Humidity : 67%

The details of test modes are as follows :

Mode	Model No. (S/N)	LCD Panel (Power Board)	Panel's Angle	Data Cable	Frequency / Resolution.	Reference Test Data No.	
						Horizontal	Vertical
6.	190B6 (TY0404812)	AUO, (Lien Chang)	0°	DVI	1280*1024/75Hz, 80kHz	# 4	# 3
12.	190P6 (TY0405016)	LG Philips, (Lien Chang)	Rotate 90°	DVI	1280*1024/75Hz, 80kHz	# 6	# 5
16.	190S6 (TY0404799)	LG Philips, (Lien Chang)	0°	D-Sub	1280*1024/75Hz, 80kHz	# 2	# 1

#### **For 1 ~ 2GHz Frequency Range**

To selected the worst test modes (Mode ) Performed measurement at No. 4 Open Area Test Site from 1GHz to 2GHz frequency range and all the test results are attached in section 3.7.2.

Test Date : Mar. 10, 2005    Temperature : 21°C    Humidity : 67%

The details of test modes are as follows :

Mode	Model No. (S/N)	LCD Panel (Power Board)	Panel's Angle	Data Cable	Frequency / Resolution.	Reference Test Data No.			
						Horizontal		Vertical	
						Peak	Average	Peak	Average
6.	190B6 (TY0404812)	AUO, (Lien Chang)	0°	DVI	1280*1024/75Hz, 80kHz	# 11	# 12	# 14	# 13
12.	190P6 (TY0405016)	LG Philips, (Lien Chang)	Rotate 90°	DVI	1280*1024/75Hz, 80kHz	# 18	# 17	# 15	# 16
16.	190S6 (TY0404799)	LG Philips, (Lien Chang)	0°	D-Sub	1280*1024/75Hz, 80kHz	# 10	# 9	# 7	# 8

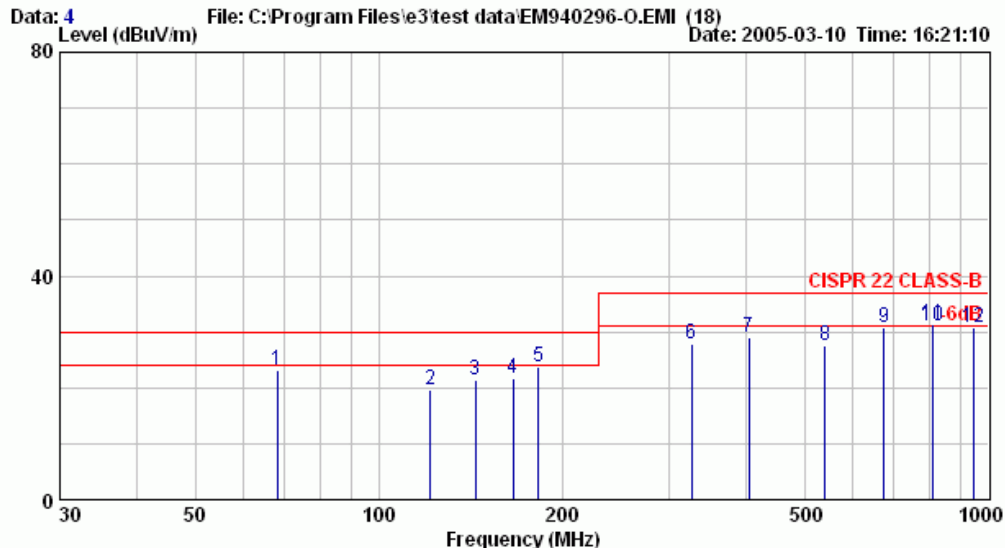


## 3.7.1. 30MHz to 1000MHz Frequency Range Measurement Results

## 《M/N 190B6, LCD Panel: AUO + Lien Chang Power Board》



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Site no. : NO.4 Open Site Data no. : 4  
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 21°C/67% ESVS10 Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	68.248	12.59	0.88	9.75	23.22	30.00	6.78	
2	121.560	19.03	1.12	-0.49	19.66	30.00	10.34	
3	144.042	20.54	1.35	-0.38	21.51	30.00	8.49	
4	166.365	21.03	1.37	-0.61	21.79	30.00	8.21	
5	182.603	21.11	1.53	0.98	23.61	30.00	6.39	
6	325.939	14.49	1.97	11.34	27.80	37.00	9.20	
7	405.000	16.02	2.20	10.84	29.06	37.00	7.94	
8	540.057	18.66	2.52	6.37	27.56	37.00	9.44	
9	675.013	22.30	2.96	5.38	30.64	37.00	6.36	
10	810.006	23.02	3.31	4.68	31.01	37.00	5.99	
11	810.026	23.02	3.31	5.09	31.42	37.00	5.58	*
12	945.031	25.55	3.44	1.91	30.90	37.00	6.10	

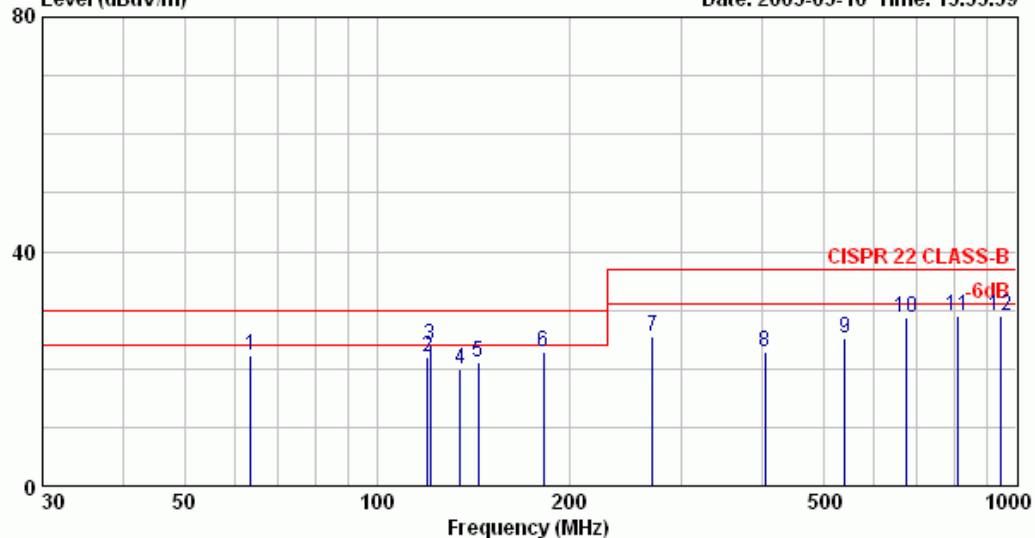
- Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.  
3. The worst emission was detected at 810.026MHz with corrected signal level of 31.42dBμV/m (limit was 37dBμV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 320°.  
4. 0° is the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.





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Email:ttmc@ttmc.com.tw

Data: 3 File: C:\Program Files\etest\data\EM940296-0.EMI (18) Date: 2005-03-10 Time: 15:53:39  
Level (dBuV/m)



Site no. : NO.4 Open Site Data no. : 3  
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 21°C/67% ESVS10 Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	63.512	13.66	0.86	7.83	22.36	30.00	7.64	
2	120.010	18.21	1.11	2.66	21.98	30.00	8.02	
3	121.228	18.31	1.12	4.51	23.94	30.00	6.06	*
4	135.006	19.76	1.23	-1.04	19.95	30.00	10.05	
5	144.019	20.18	1.35	-0.31	21.22	30.00	8.78	
6	182.030	21.53	1.51	-0.09	22.95	30.00	7.05	
7	270.000	24.10	1.72	-0.42	25.40	37.00	11.60	
8	405.000	16.68	2.20	3.99	22.87	37.00	14.13	
9	540.000	19.45	2.52	3.14	25.11	37.00	11.89	
10	675.020	22.12	2.96	3.76	28.84	37.00	8.16	
11	810.063	23.56	3.31	2.07	28.94	37.00	8.06	
12	945.063	25.39	3.44	0.29	29.12	37.00	7.88	

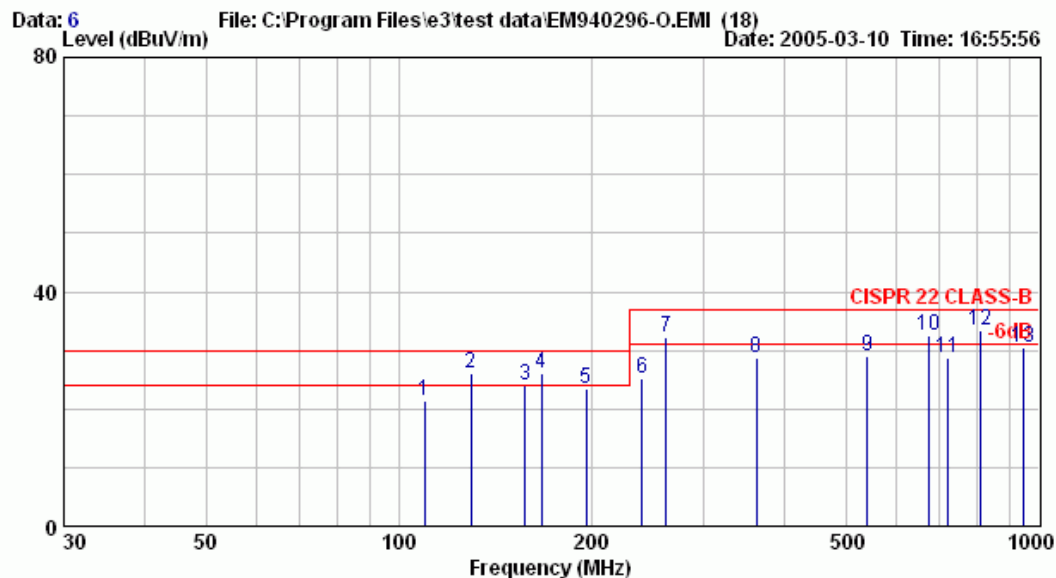
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.  
3. The worst emission was detected at 121.228MHz with corrected signal level of 23.94dBuV/m (limit was 30dBuV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 260°.  
4. 0° is the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



## 《M/N 190P6, LCD Panel: LG Philips + Lien Chang Power Board》



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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. : 21°C/67% ESVS10 Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz DVI

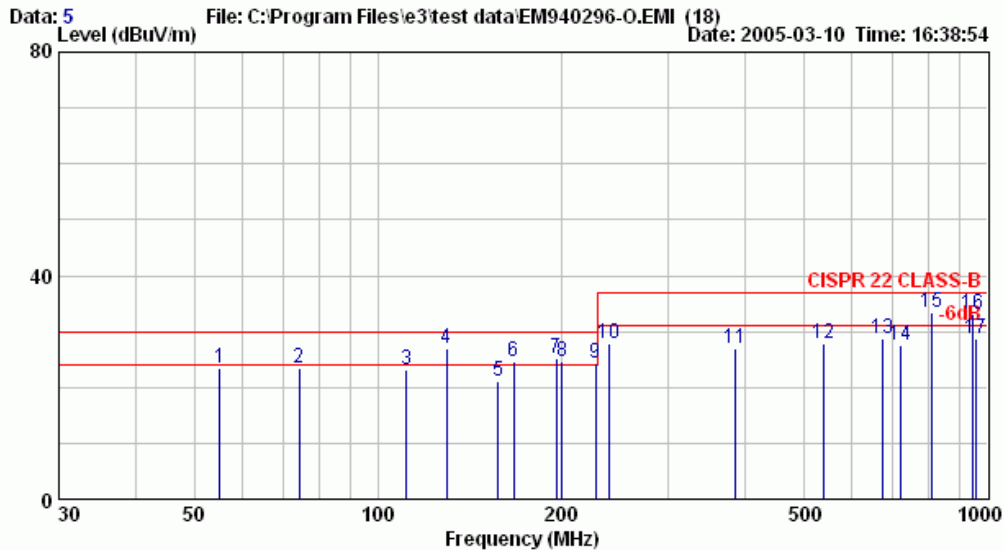
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	109.860	18.58	1.11	1.80	21.49	30.00	8.51	
2	129.734	19.93	1.17	5.03	26.13	30.00	3.87	
3	157.630	20.90	1.35	1.87	24.12	30.00	5.88	
4	167.175	21.03	1.37	3.59	25.99	30.00	4.01	
5	196.260	21.25	1.67	0.40	23.31	30.00	6.69	
6	240.007	22.77	1.62	0.95	25.34	37.00	11.66	
7	261.401	23.83	1.71	6.55	32.09	37.00	4.91	
8	362.500	15.38	2.11	11.30	28.79	37.00	8.21	
9	540.007	18.66	2.52	7.90	29.08	37.00	7.92	
10	675.009	22.30	2.96	7.40	32.66	37.00	4.34	
11	720.010	21.45	3.10	4.30	28.85	37.00	8.15	
12	810.011	23.02	3.31	7.21	33.54	37.00	3.46	*
13	945.016	25.55	3.44	1.55	30.54	37.00	6.46	

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 810.011MHz with corrected signal level of 33.54dBuV/m (limit was 37dBuV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 80°.  
4. 0° is 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. : 5  
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 21°C/67% ESVS 10 Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	55.125	15.08	0.79	7.57	23.45	30.00	6.55	
2	74.401	13.52	0.91	9.02	23.45	30.00	6.55	
3	111.355	17.63	1.11	4.30	23.03	30.00	6.97	
4	129.746	19.55	1.17	6.17	26.88	30.00	3.12	*
5	157.661	20.87	1.35	-1.13	21.09	30.00	8.91	
6	167.161	21.15	1.37	1.98	24.50	30.00	5.50	
7	196.504	22.03	1.67	1.59	25.29	30.00	4.71	
8	200.504	22.38	1.62	0.62	24.63	30.00	5.37	
9	228.004	23.50	1.57	-0.66	24.41	30.00	5.59	
10	240.031	22.57	1.62	3.71	27.90	37.00	9.10	
11	386.571	16.58	2.13	8.17	26.89	37.00	10.11	
12	540.008	19.45	2.52	5.99	27.96	37.00	9.04	
13	675.008	22.12	2.96	3.65	28.73	37.00	8.27	
14	719.389	21.70	3.09	2.83	27.62	37.00	9.38	
15	810.011	23.56	3.31	6.51	33.38	37.00	3.62	
16	945.013	25.39	3.44	4.20	33.03	37.00	3.97	
17	960.570	25.61	3.47	-0.41	28.66	37.00	8.34	

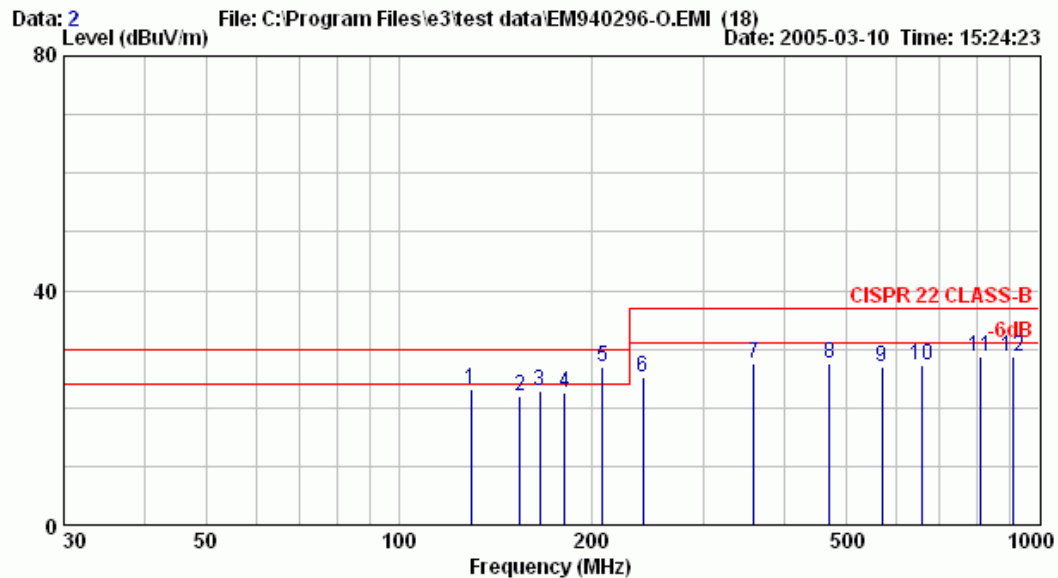
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.  
3. The worst emission was detected at 129.746MHz with corrected signal level of 26.88dBuV/m (limit was 30dBuV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 145°.  
4. 0° is the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



## 《M/N 190S6, LCD Panel: LG Philips + Delta Power Board》



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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. : 21°C/67% ESVS10 Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz D-SUB

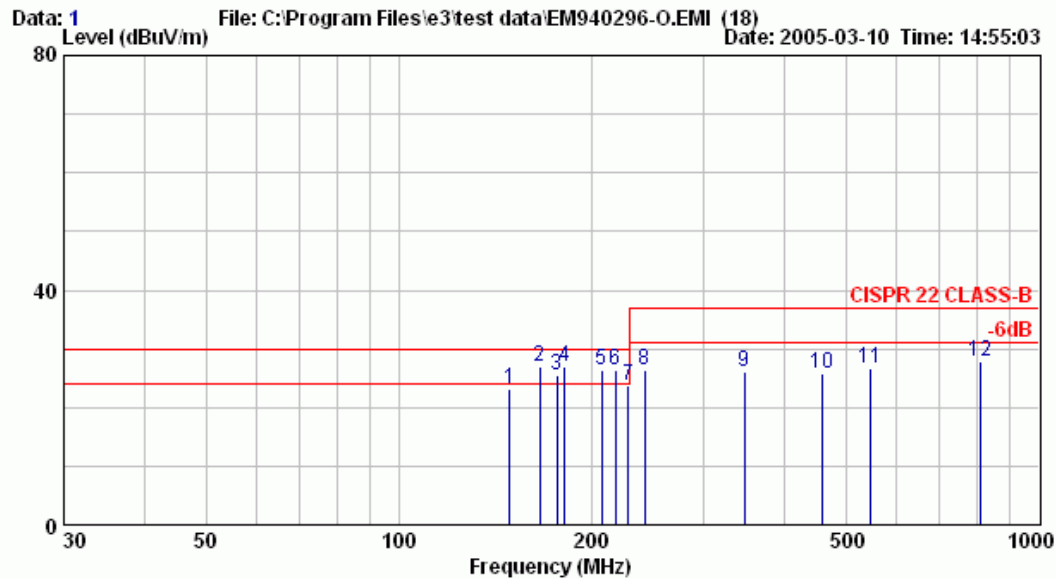
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	129.754	19.93	1.17	2.07	23.16	30.00	6.84	
2	154.485	20.76	1.35	-0.20	21.91	30.00	8.09	
3	166.145	20.99	1.37	0.54	22.90	30.00	7.10	
4	181.763	21.12	1.51	-0.14	22.49	30.00	7.51	
5	208.242	21.62	1.53	3.68	26.84	30.00	3.16	*
6	241.041	22.82	1.63	0.62	25.07	37.00	11.93	
7	359.308	15.37	2.11	10.14	27.61	37.00	9.39	
8	470.595	18.17	2.41	6.84	27.41	37.00	9.59	
9	569.517	20.76	2.60	3.66	27.02	37.00	9.98	
10	656.073	21.56	2.92	2.91	27.39	37.00	9.61	
11	810.432	23.00	3.31	2.33	28.64	37.00	8.36	
12	912.322	23.87	3.39	1.39	28.65	37.00	8.35	

- 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 208.242MHz with corrected signal level of 26.84dBuV/m (limit was 30dB(V/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 345°.
  4. 0° is 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. : 21°C/67% ESVS10 Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz D-SUB

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	149.100	20.25	1.35	1.46	23.06	30.00	6.94	
2	166.190	21.14	1.37	4.45	26.96	30.00	3.04	
3	176.513	21.19	1.41	2.76	25.36	30.00	4.64	
4	181.763	21.52	1.51	3.79	26.81	30.00	3.19	
5	207.704	22.31	1.55	2.46	26.31	30.00	3.69	
6	218.095	22.54	1.52	2.28	26.33	30.00	3.67	
7	228.498	23.03	1.57	-0.80	23.79	30.00	6.21	
8	242.570	22.48	1.63	2.40	26.52	37.00	10.48	
9	346.943	14.66	2.10	9.24	26.00	37.00	11.00	
10	458.230	18.06	2.38	5.35	25.79	37.00	11.21	
11	544.786	19.66	2.53	4.49	26.69	37.00	10.31	
12	810.326	23.56	3.31	0.89	27.76	37.00	9.24	

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 166.190MHz with corrected signal level of 26.96dB(V/m) (limit was 30dB(V/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 115°.  
4. 0° is the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

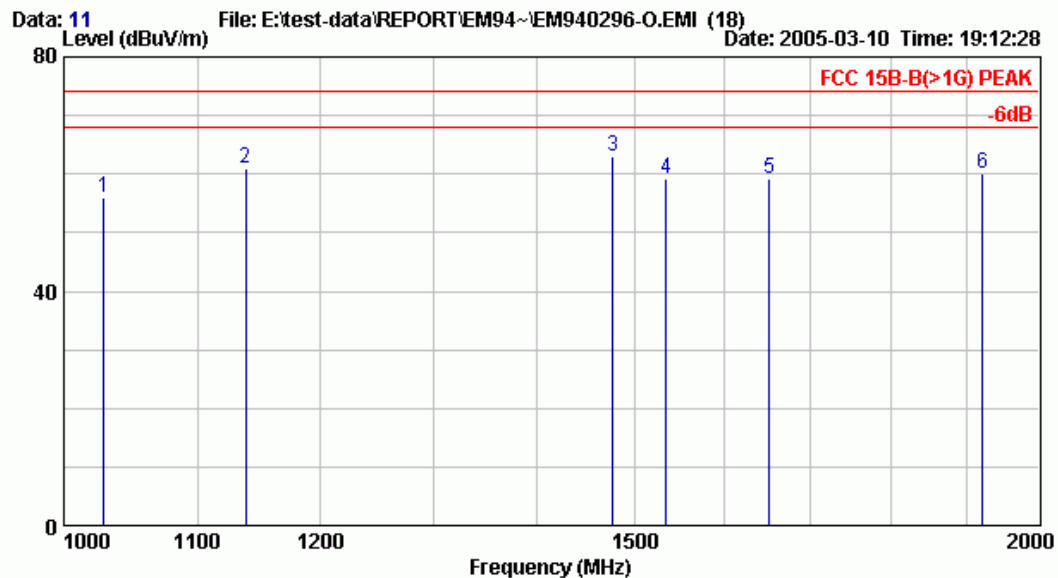


## 3.7.2. 1GHz to 2GHz Frequency Range Measurement Results

## 《M/N 190B6, LCD Panel: AUO + Lien Chang Power Board》



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Site no. : No.4 OPEN SITE Data no. : 11  
Dis. / Ant. : 3m HORN ANT Ant. pol. : HORIZONTAL  
Limit : FCC 15B-B(>1G) PEAK  
Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz S/N:TY0404812  
Test Mode : 1280\*1024/75Hz 80KHz DVI

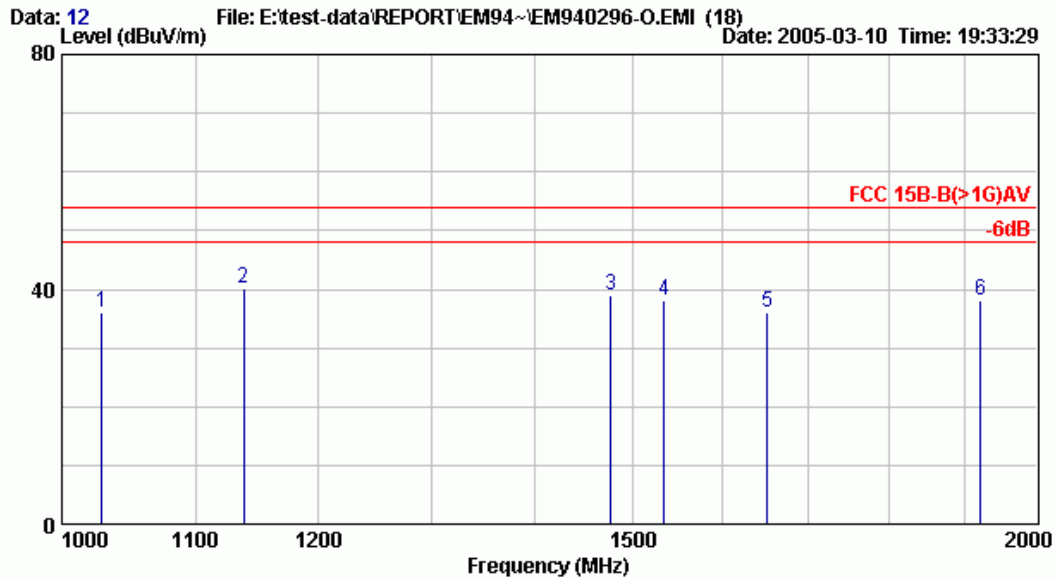
	Ant.	Cable	Emission					
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		
1 1029.000	24.69	2.00	29.31	56.00	74.00	18.00	Peak	
2 1138.000	25.01	2.02	33.99	61.02	74.00	12.98	Peak	
3 1477.000	25.84	2.07	35.16	63.07	74.00	10.93	Peak	
4 1534.000	25.96	2.07	31.04	59.07	74.00	14.93	Peak	
5 1651.000	26.19	2.08	30.81	59.08	74.00	14.92	Peak	
6 1921.000	26.67	2.11	31.33	60.11	74.00	13.89	Peak	

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. : 12  
 Dis. / Ant. : 3m HORN ANT Ant. pol. : HORIZONTAL  
 Limit : FCC 15B-B(>1G)AV  
 Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
 EUT : Flat Panel Color Monitor M/N:190B6  
 Power Rating : 120Vac/60Hz S/N:TY0404812  
 Test Mode : 1280\*1024/75Hz 80KHz DVI

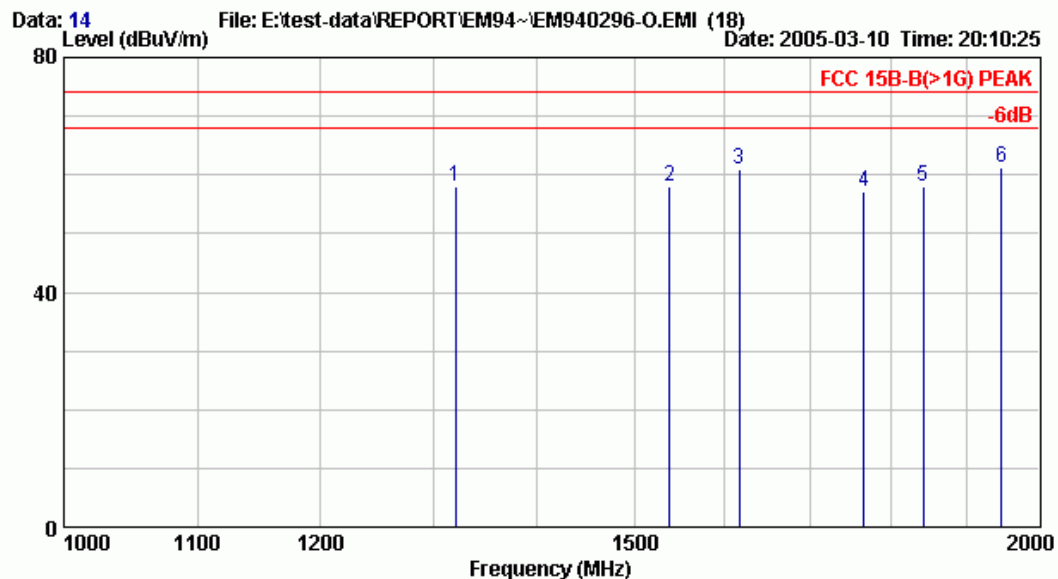
		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		
1 1029.000	24.69	2.00	9.31	36.00	54.00	18.00	Average	
2 1138.000	25.01	2.02	12.99	40.02	54.00	13.98	Average	
3 1477.000	25.84	2.07	11.16	39.07	54.00	14.93	Average	
4 1534.000	25.96	2.07	10.04	38.07	54.00	15.93	Average	
5 1651.000	26.19	2.08	7.81	36.08	54.00	17.92	Average	
6 1921.000	26.67	2.11	9.33	38.11	54.00	15.89	Average	

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. : 14  
 Dis. / Ant. : 3m HORN ANT Ant. pol. : VERTICAL  
 Limit : FCC 15B-B(>1G) PEAK  
 Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
 EUT : Flat Panel Color Monitor M/N:190B6  
 Power Rating : 120Vac/60Hz S/N:TY0404812  
 Test Mode : 1280\*1024/75Hz 80KHz DVI

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		
1 1321.000	25.48	2.05	30.52	58.05	74.00	15.95	Peak	
2 1538.000	25.97	2.07	30.03	58.07	74.00	15.93	Peak	
3 1616.000	26.12	2.08	32.88	61.08	74.00	12.92	Peak	
4 1766.000	26.41	2.10	28.59	57.10	74.00	16.90	Peak	
5 1842.000	26.53	2.10	29.47	58.10	74.00	15.90	Peak	
6 1948.000	26.72	2.11	32.28	61.11	74.00	12.89	Peak	

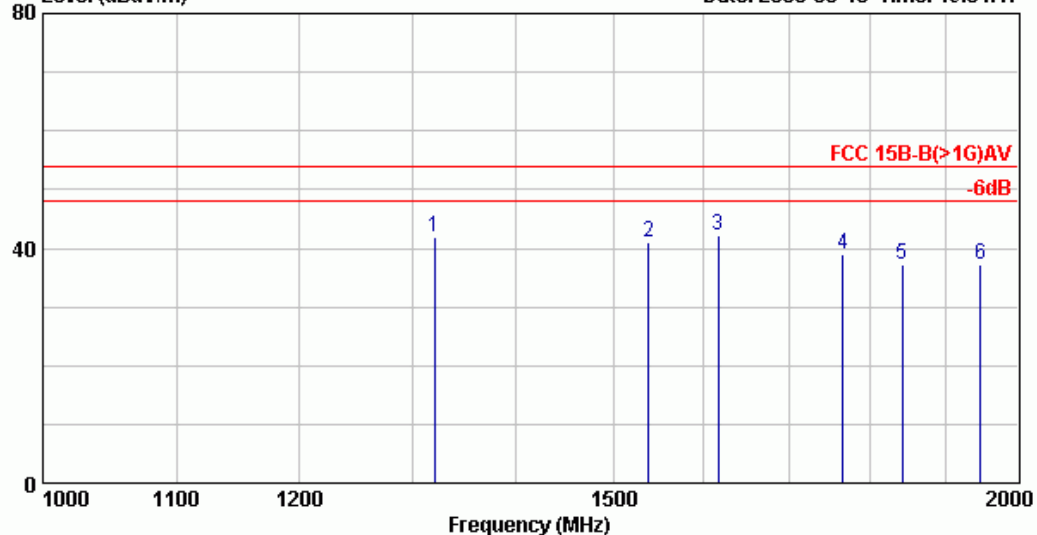
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 13 File: E:\test-data\REPORT\EM94~\EM940296-O.EMI (18) Date: 2005-03-10 Time: 19:54:17  
 Level (dBuV/m)



Site no. : No.4 OPEN SITE Data no. : 13  
 Dis. / Ant. : 3m HORN ANT Ant. pol. : VERTICAL  
 Limit : FCC 15B-B(>1G)AV  
 Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
 EUT : Flat Panel Color Monitor M/N:190B6  
 Power Rating : 120Vac/60Hz S/N:TY0404812  
 Test Mode : 1280\*1024/75Hz 80KHz DVI

Freq. (MHz)	Ant. Cable		Emission		Limits (dB $\mu$ V/m)	Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Reading (dB $\mu$ V)	Level (dB $\mu$ V/m)			
1 1321.000	25.48	2.05	14.52	42.05	54.00	11.95	Average
2 1538.000	25.97	2.07	13.03	41.07	54.00	12.93	Average
3 1616.000	26.12	2.08	13.88	42.08	54.00	11.92	Average
4 1766.000	26.41	2.10	10.59	39.10	54.00	14.90	Average
5 1842.000	26.53	2.10	8.47	37.10	54.00	16.90	Average
6 1948.000	26.72	2.11	8.28	37.11	54.00	16.89	Average

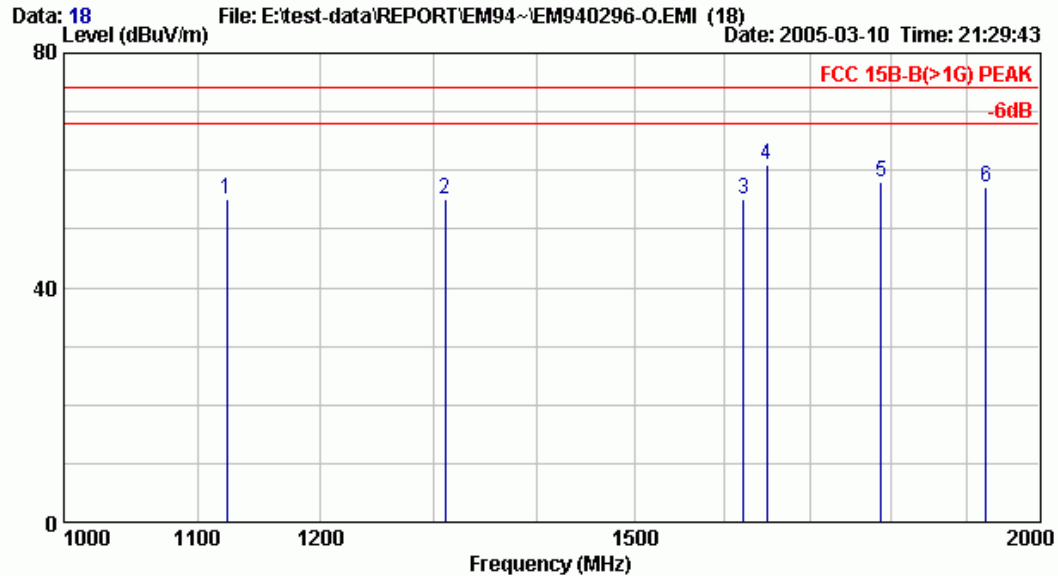
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



## 《M/N 190P6, LCD Panel: LG Philips + Lien Chang Power Board》



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Site no. : No.4 OPEN SITE Data no. : 18  
Dis. / Ant. : 3m HORN ANT Ant. pol. : HORIZONTAL  
Limit : FCC 15B-B(>1G) PEAK  
Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz S/N:TY0405016  
Test Mode : 1280\*1024/75Hz 80KHz DVI

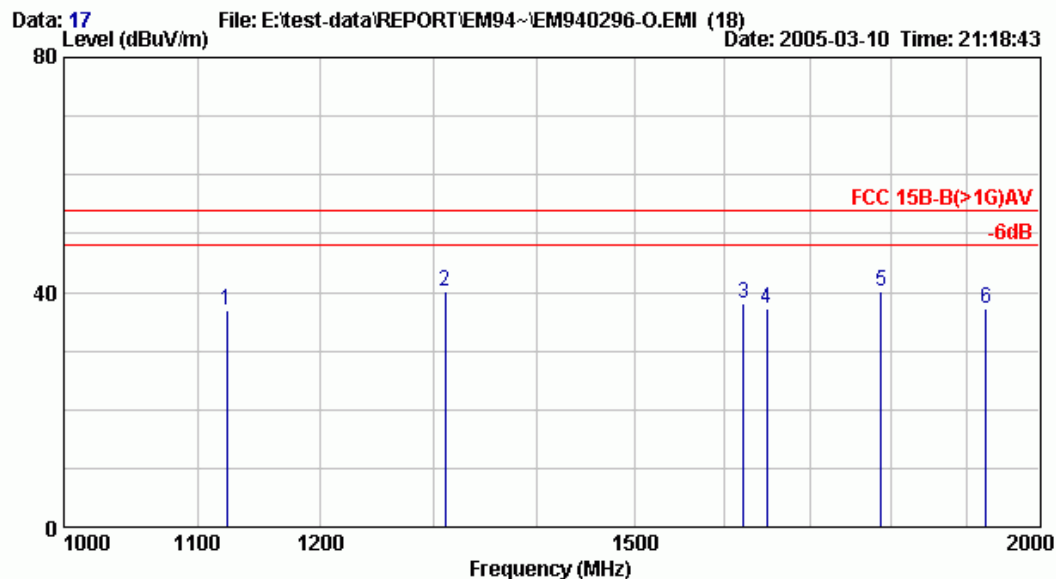
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
1	1123.000	24.97	2.02	28.03	55.02	74.00	18.98	Peak
2	1311.000	25.46	2.05	27.54	55.05	74.00	18.95	Peak
3	1621.000	26.13	2.08	26.87	55.08	74.00	18.92	Peak
4	1648.000	26.19	2.08	32.81	61.08	74.00	12.92	Peak
5	1788.000	26.44	2.10	29.56	58.10	74.00	15.90	Peak
6	1926.000	26.68	2.11	28.32	57.11	74.00	16.89	Peak

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. : 17  
Dis. / Ant. : 3m HORN ANT Ant. pol. : HORIZONTAL  
Limit : FCC 15B-B(>1G)AV  
Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz S/N:TY0405016  
Test Mode : 1280\*1024/75Hz 80KHz DVI

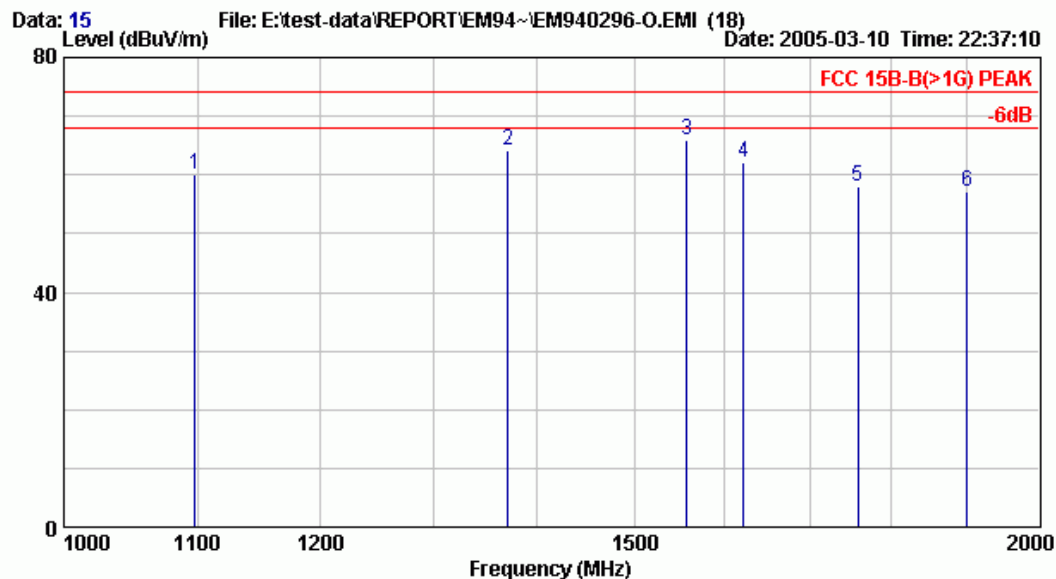
		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		
1	1123.000	24.97	2.02	10.03	37.02	54.00	16.98	Average
2	1311.000	25.46	2.05	12.54	40.05	54.00	13.95	Average
3	1621.000	26.13	2.08	9.87	38.08	54.00	15.92	Average
4	1648.000	26.19	2.08	8.81	37.08	54.00	16.92	Average
5	1788.000	26.44	2.10	11.56	40.10	54.00	13.90	Average
6	1926.000	26.68	2.11	8.32	37.11	54.00	16.89	Average

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. : 15  
Dis. / Ant. : 3m HORN ANT Ant. pol. : VERTICAL  
Limit : FCC 15B-B(>1G) PEAK  
Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz S/N:TY0405016  
Test Mode : 1280\*1024/75Hz 80KHz DVI

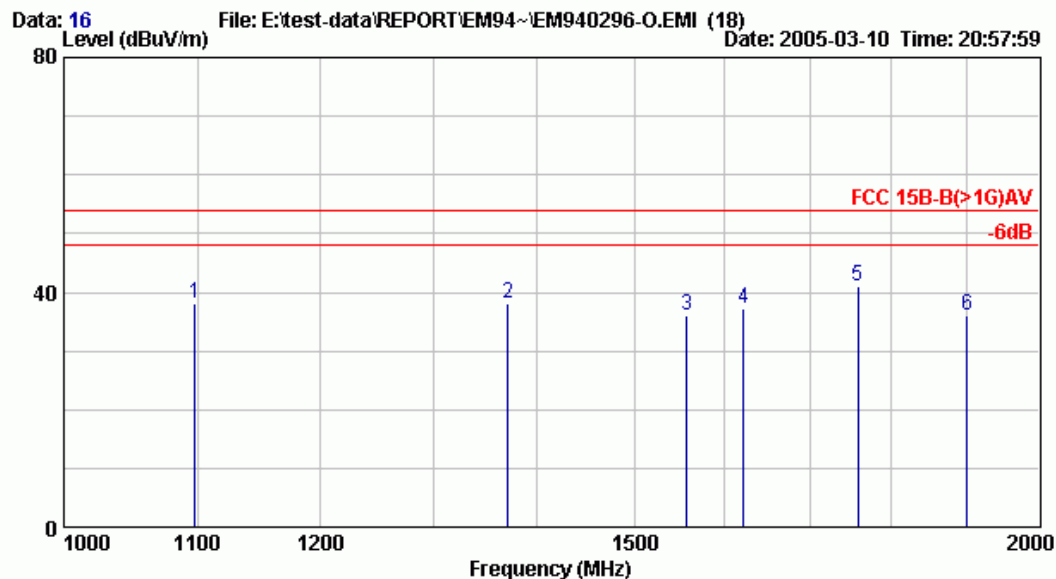
		Ant.	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
1	1098.000	24.89	2.02	33.11	60.02	74.00	13.98	Peak
2	1371.000	25.60	2.05	36.40	64.05	74.00	9.95	Peak
3	1557.000	26.00	2.08	38.00	66.08	74.00	7.92	Peak
4	1621.000	26.13	2.08	33.87	62.08	74.00	11.92	Peak
5	1758.000	26.39	2.10	29.61	58.10	74.00	15.90	Peak
6	1901.000	26.64	2.11	28.37	57.11	74.00	16.89	Peak

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. : 16  
Dis. / Ant. : 3m HORN ANT Ant. pol. : VERTICAL  
Limit : FCC 15B-B(>1G)AV  
Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz S/N:TY0405016  
Test Mode : 1280\*1024/75Hz 80KHz DVI

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		
1	1098.000	24.89	2.02	11.11	38.02	54.00	15.98	Average
2	1371.000	25.60	2.05	10.40	38.05	54.00	15.95	Average
3	1557.000	26.00	2.08	8.00	36.08	54.00	17.92	Average
4	1621.000	26.13	2.08	8.87	37.08	54.00	16.92	Average
5	1758.000	26.39	2.10	12.61	41.10	54.00	12.90	Average
6	1901.000	26.64	2.11	7.36	36.11	54.00	17.89	Average

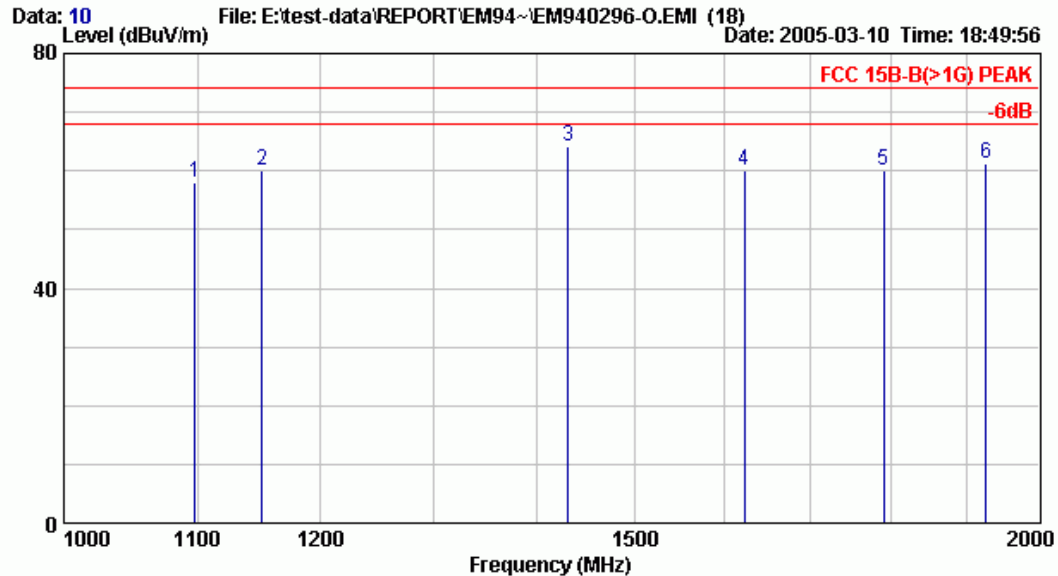
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.



## 《M/N 190S6, LCD Panel: LG Philips + Delta Power Board》



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Email:ttemc@ttemc.com.tw



Site no. : No.4 OPEN SITE Data no. : 10  
Dis. / Ant. : 3m HORN ANT Ant. pol. : HORIZONTAL  
Limit : FCC 15B-B(>1G) PEAK  
Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz S/N:TY0404799  
Test Mode : 1280\*1024/75Hz 80KHz

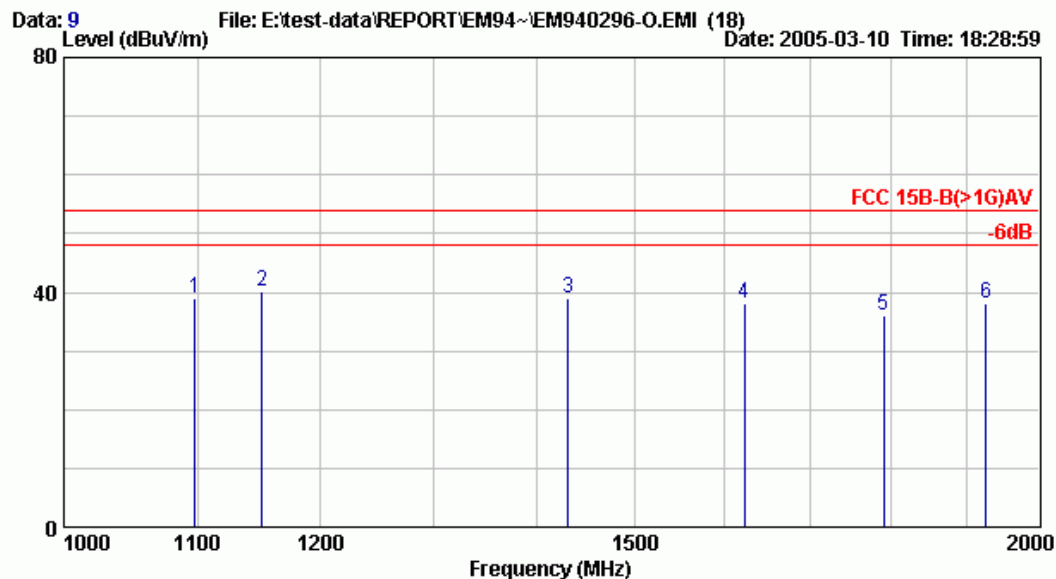
		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		
1 1098.000	24.89	2.02	31.11	58.02	74.00	15.98	Peak	
2 1151.000	25.05	2.02	32.95	60.02	74.00	13.98	Peak	
3 1431.000	25.74	2.06	36.26	64.06	74.00	9.94	Peak	
4 1622.000	26.13	2.08	31.87	60.08	74.00	13.92	Peak	
5 1791.000	26.45	2.10	31.55	60.10	74.00	13.90	Peak	
6 1926.000	26.68	2.11	32.32	61.11	74.00	12.89	Peak	

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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Email:temc@temc.com.tw



Site no. : No.4 OPEN SITE Data no. : 9  
Dis. / Ant. : 3m HORN ANT Ant. pol. : HORIZONTAL  
Limit : FCC 15B-B(>1G)AV  
Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz S/N:TY0404799  
Test Mode : 1280\*1024/75Hz 80KHz

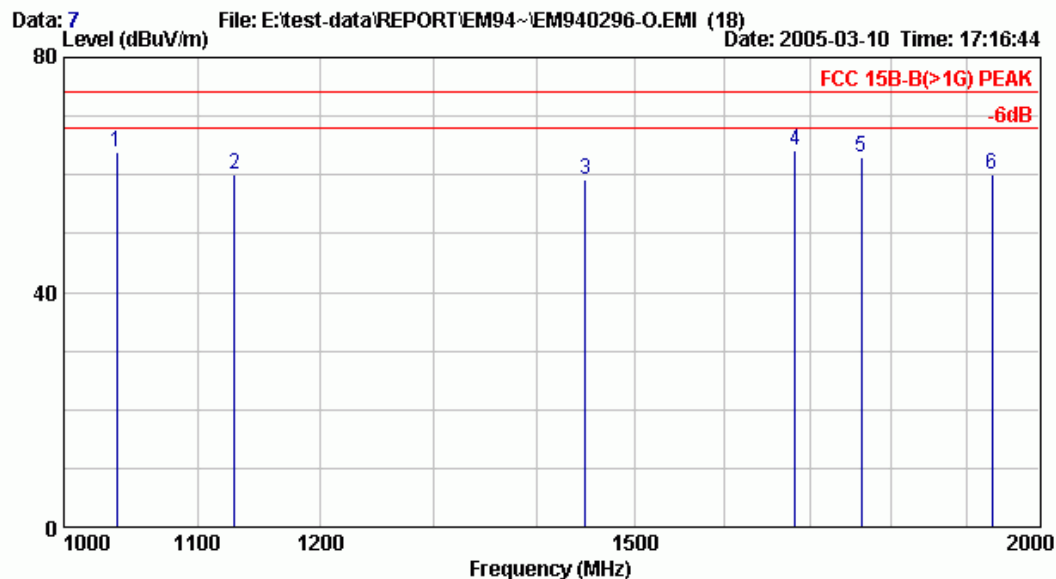
		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		
1 1098.000	24.89	2.02	12.11	39.02	54.00	14.98	Average	
2 1151.000	25.05	2.02	12.95	40.02	54.00	13.98	Average	
3 1431.000	25.74	2.06	11.26	39.06	54.00	14.94	Average	
4 1622.000	26.13	2.08	9.87	38.08	54.00	15.92	Average	
5 1791.000	26.45	2.10	7.55	36.10	54.00	17.90	Average	
6 1926.000	26.68	2.11	9.32	38.11	54.00	15.89	Average	

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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Email:ttmc@ttmc.com.tw



Site no. : No.4 OPEN SITE Data no. : 7  
Dis. / Ant. : 3m HORN ANT Ant. pol. : VERTICAL  
Limit : FCC 15B-B(>1G) PEAK  
Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz S/N:TY0404799  
Test Mode : 1280\*1024/75Hz 80KHz

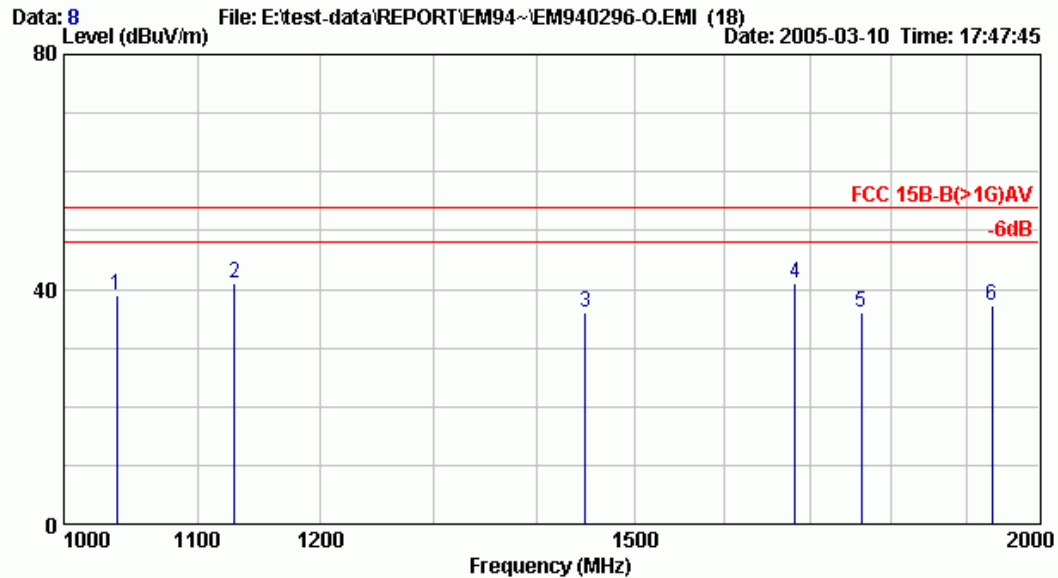
		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		
1 1038.000	24.72	2.01	37.28	64.01	74.00	9.99	Peak	
2 1129.000	24.99	2.02	33.02	60.02	74.00	13.98	Peak	
3 1449.000	25.77	2.06	31.23	59.06	74.00	14.94	Peak	
4 1682.000	26.25	2.09	35.75	64.09	74.00	9.91	Peak	
5 1763.000	26.40	2.10	34.60	63.10	74.00	10.90	Peak	
6 1934.000	26.69	2.11	31.31	60.11	74.00	13.89	Peak	

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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Email:temc@ttemc.com.tw



Site no. : No.4 OPEN SITE Data no. : 8  
Dis. / Ant. : 3m HORN ANT Ant. pol. : VERTICAL  
Limit : FCC 15B-B(>1G)AV  
Env. / Ins. : 21°C/67% 8593EM Engineer : Tim  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz S/N:TY0404799  
Test Mode : 1280\*1024/75Hz 80KHz

		Ant.	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
1	1038.000	24.72	2.01	12.28	39.01	54.00	14.99	Average
2	1129.000	24.99	2.02	14.02	41.02	54.00	12.98	Average
3	1449.000	25.77	2.06	8.23	36.06	54.00	17.94	Average
4	1682.000	26.25	2.09	12.75	41.09	54.00	12.91	Average
5	1763.000	26.40	2.10	7.60	36.10	54.00	17.90	Average
6	1934.000	26.69	2.11	8.31	37.11	54.00	16.89	Average

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**

During 1GHz to 2GHz frequency range measurement, due to low loss cable length limitation, the horn antenna couldn't move up and down between 1 to 4 meters. But the test result was not affected due to the worst receiving condition of horn antenna should be at 1 meter high for above 1 GHz radiation measurement.



## 5. PHOTOGRAPHS

### 5.1. Photos of Conducted Emission Measurement

《M/N 190B6》 Panel : Rotate 0°



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT



《M/N 190P6》Panel : Rotate 0°



FRONT VIEW OF CONDUCTED MEASUREMENT



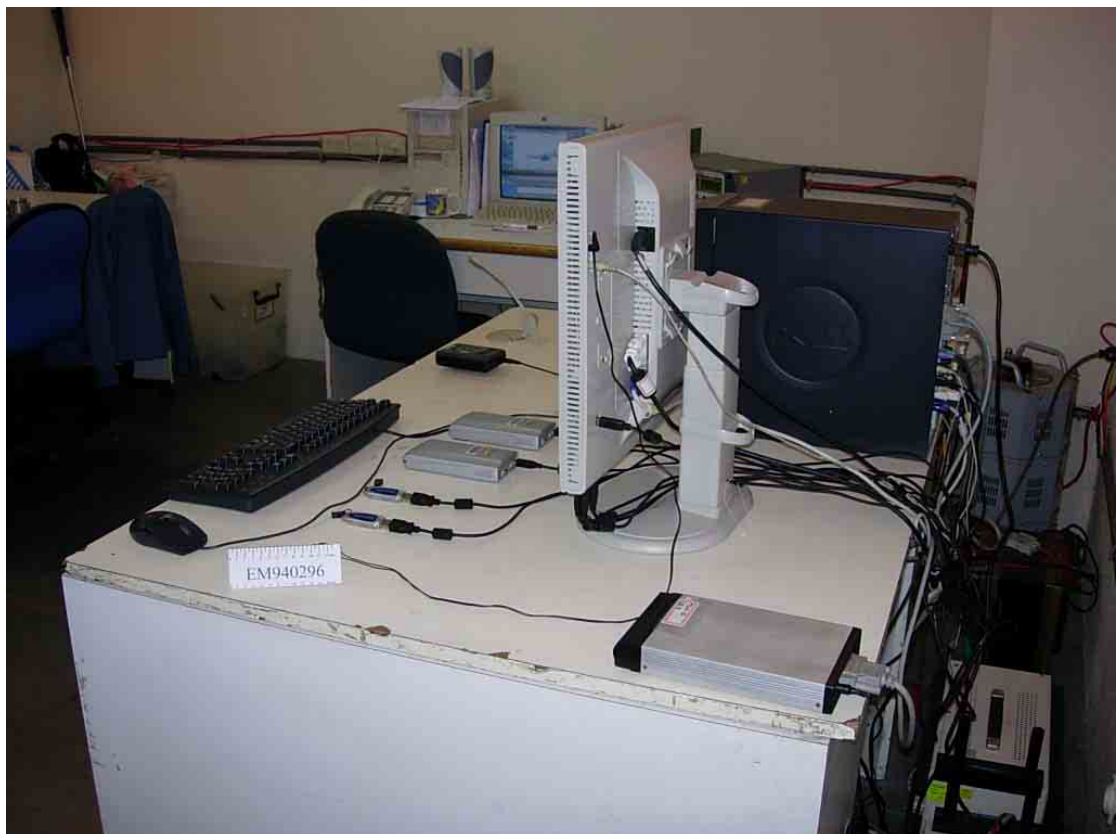
BACK VIEW OF CONDUCTED MEASUREMENT



《M/N 190P6》Panel : Rotate 90°



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT



《M/N 190S6》Panel : Rotate 0°



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT



## 5.2. Photos of Radiated Measurement at Simple Anechoic Chamber (30-1GHz)

《M/N 190B6》Panel : Rotate 0°



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



《M/N 190P6》Panel : Rotate 0°



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



《M/N 190P6》Panel : Rotate 90°



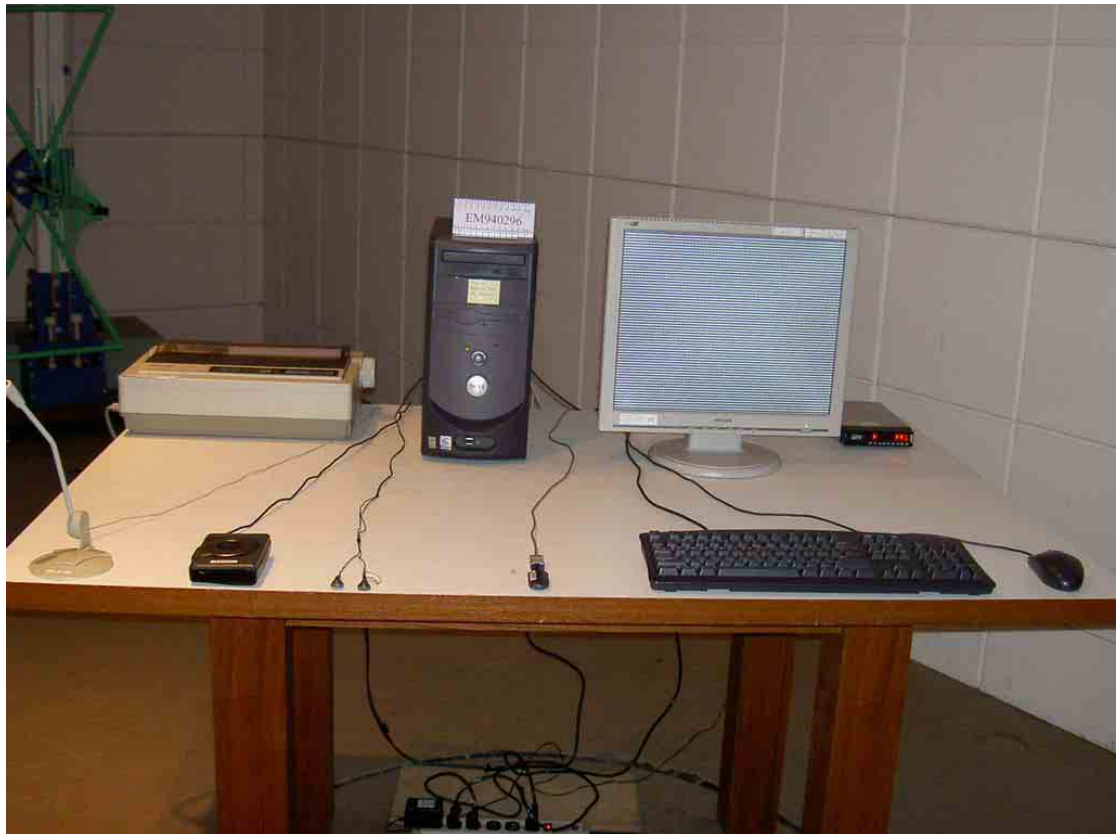
FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



《M/N 190S6》Panel : Rotate 0°



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



### 5.3. Photos of Radiated Measurement at Open Field Test Site (30-1GHz)

《M/N 190B6》 Panel : Rotate 0°



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



Test Mode : M/N 190B6, 1280\*1024/75Hz, 80kHz, DVI Cable



SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION



《M/N 190P6》Panel : Rotate 0°



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



Test Mode : 1280\*1024/75Hz, 80kHz, DVI Cable



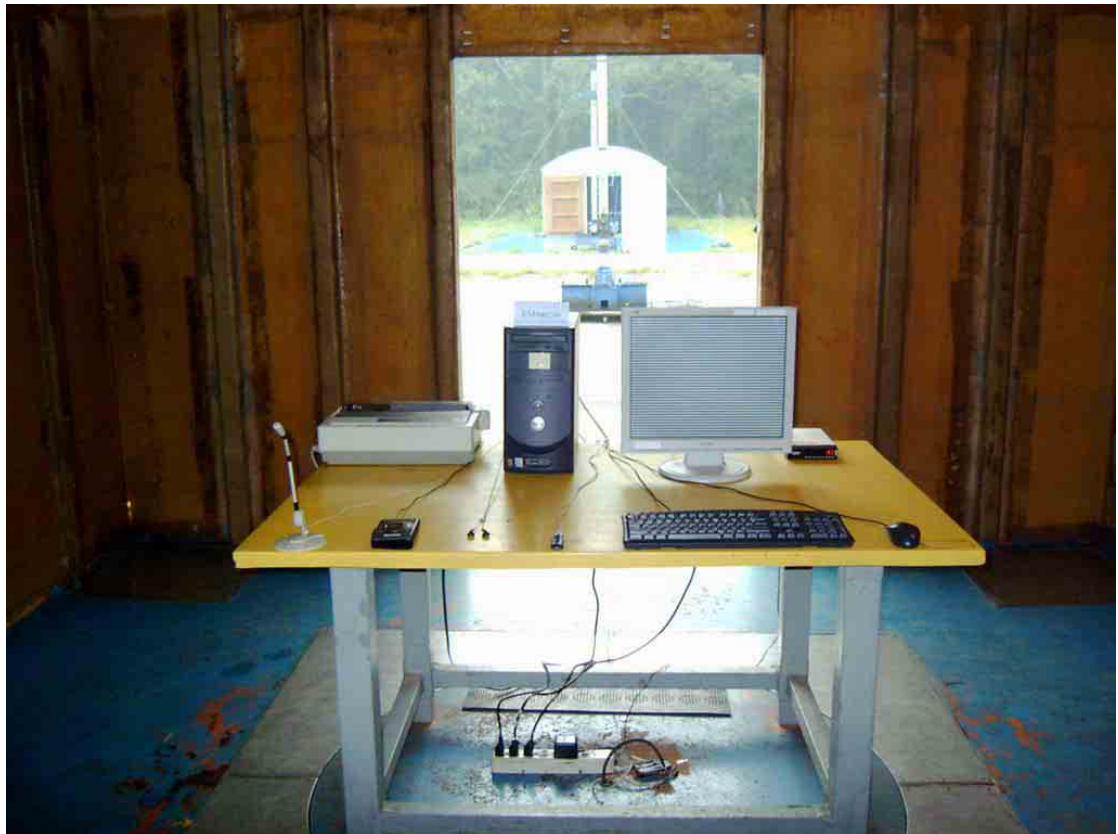
SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION



《M/N 190S6》Panel : Rotate 0°



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



Test Mode : 1280\*1024/75Hz, 80kHz, D-Sub Cable



SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION

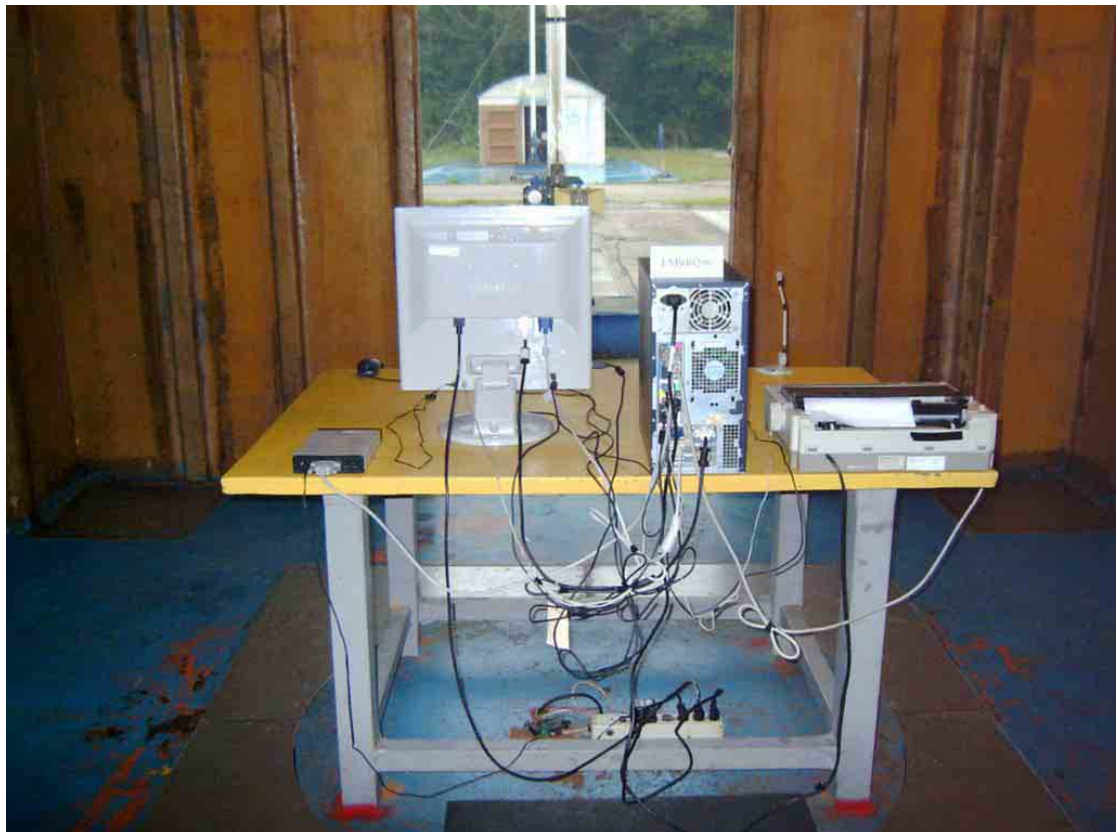


#### 5.4. Photos of Radiated Measurement at Open Area Test Site (Above 1GHz)

《M/N 190B6》 Panel : Rotate 0°



FRONT VIEW OF RADIATED MEASUREMENT



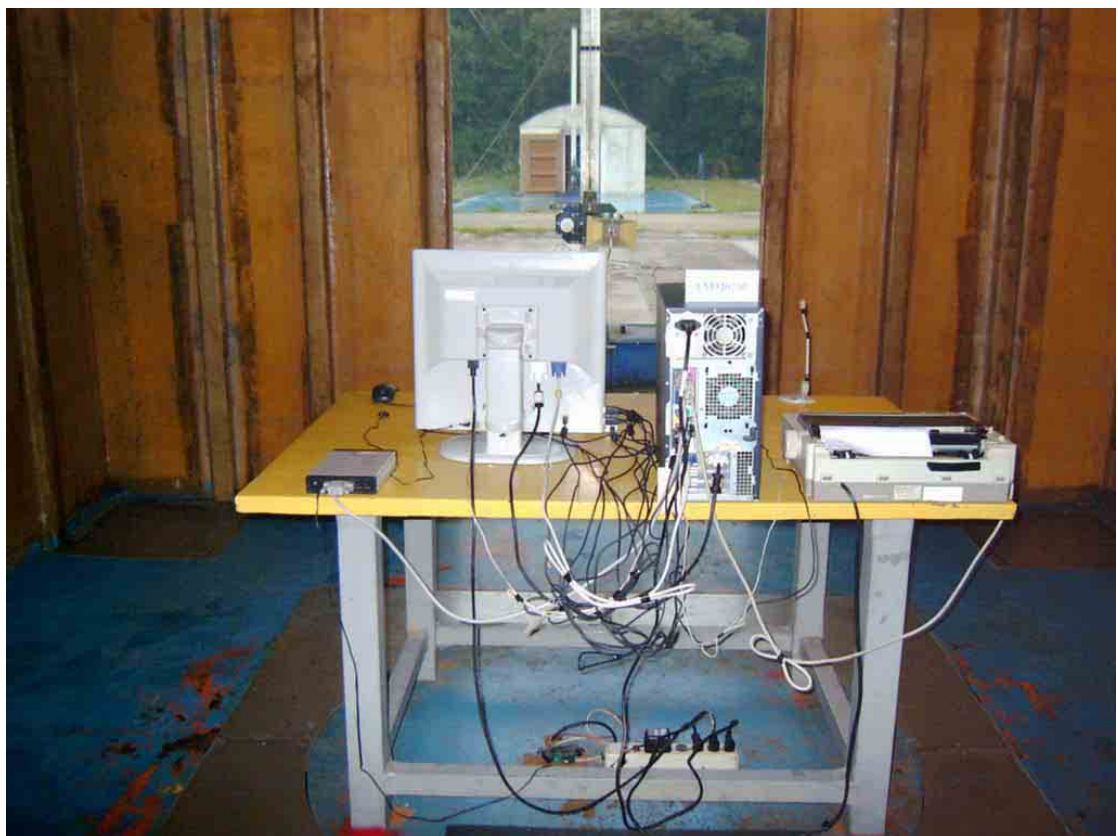
BACK VIEW OF RADIATED MEASUREMENT



《M/N 190P6》Panel : Rotate 0°



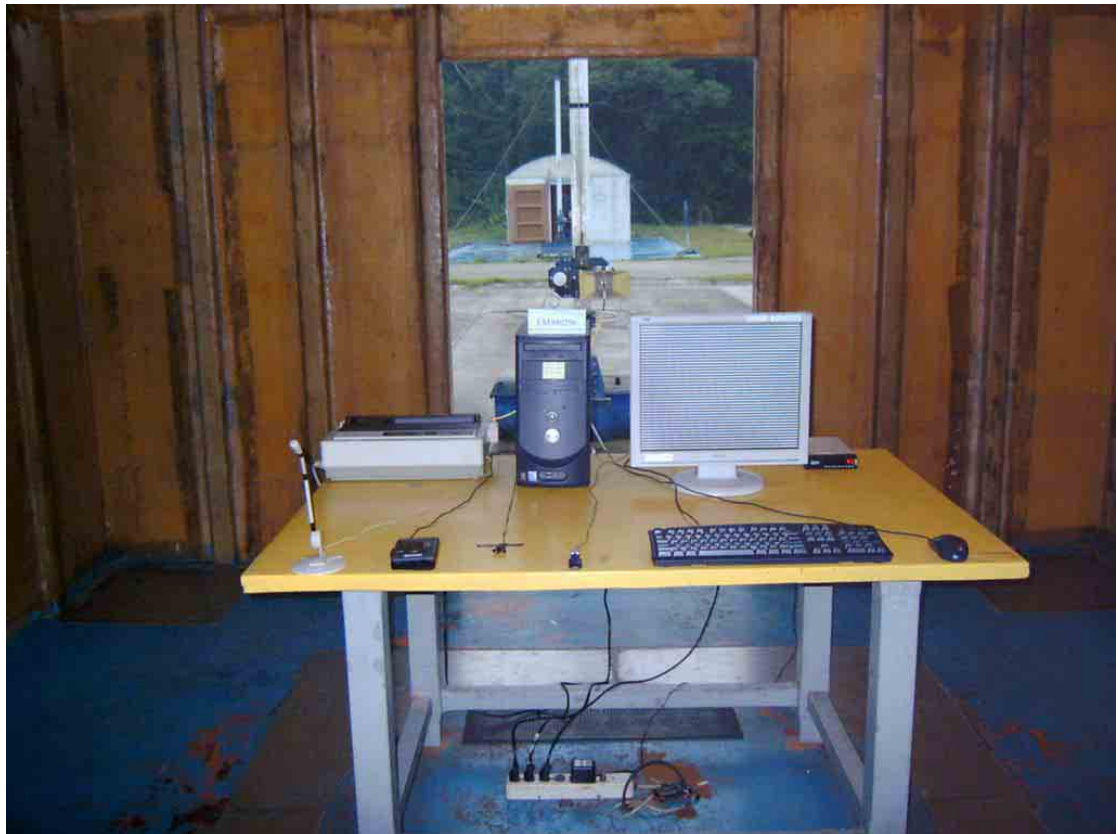
FRONT VIEW OF RADIATED MEASUREMENT



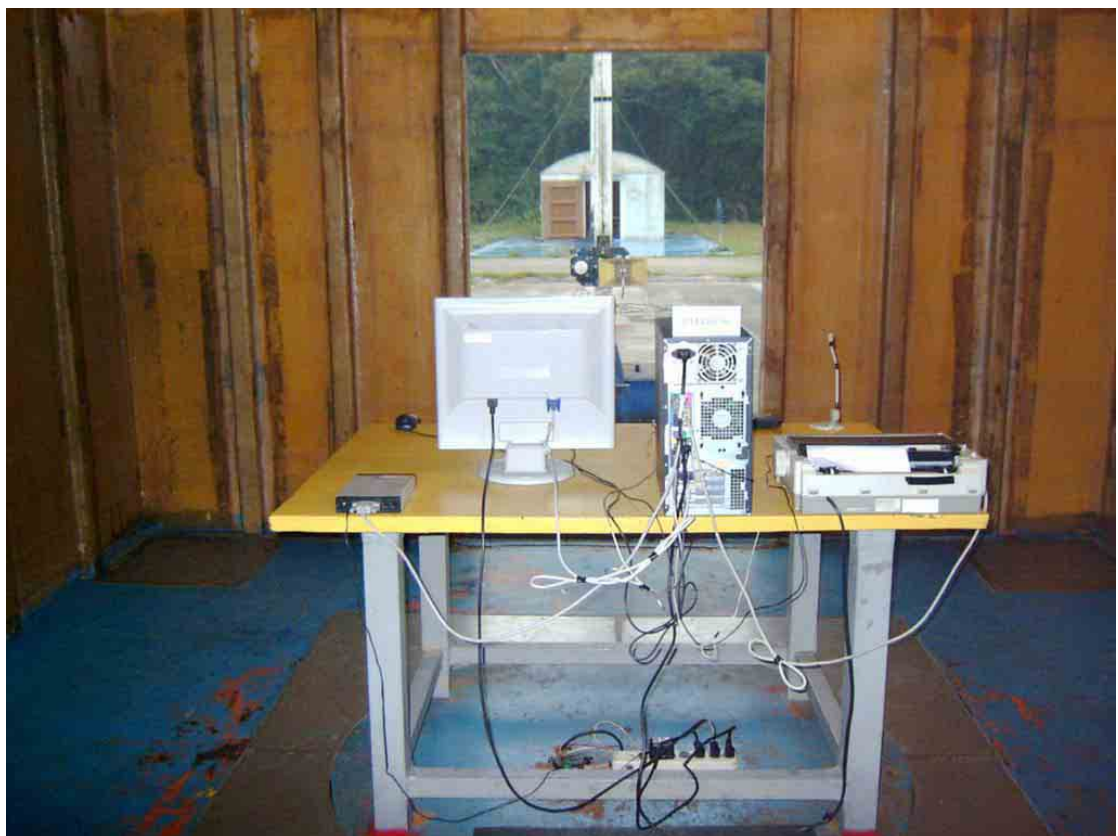
BACK VIEW OF RADIATED MEASUREMENT



《M/N 190S6》Panel : Rotate 0°



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



# APPENDIX I

## (The Details of Difference for all Models)

Total Page : 1



### The Details of Difference List

Item \ Model	190B6	190P6	190S6
Audio	Audio inside the front cabinet	Audio inside the front cabinet	No Audio
Base	Compact	Super ergo base	Foldable
LCD Panel	AUO, M/N M190EN04	LG Philips, M/N LM190E04	LG Philips, M/N LM190E04
Scaler IC	NT68563EF	GM5321	NT68521AEF
Data Cable (Input)	D-Sub 、 DVI	D-Sub 、 DVI	D-Sub
Light Frame	No	Yes	No
Power Board	Lien Chang, Type No. AIP-0093	Lien Chang, Type No. AIP-0093	Delta, Type No. EADP-43AF A
USB connector only	Yes	No	No
USB Device (USB HUB)	No	Yes	No



# APPENDIX II

## (Radiated Test Data at Simple Anechoic Chamber)

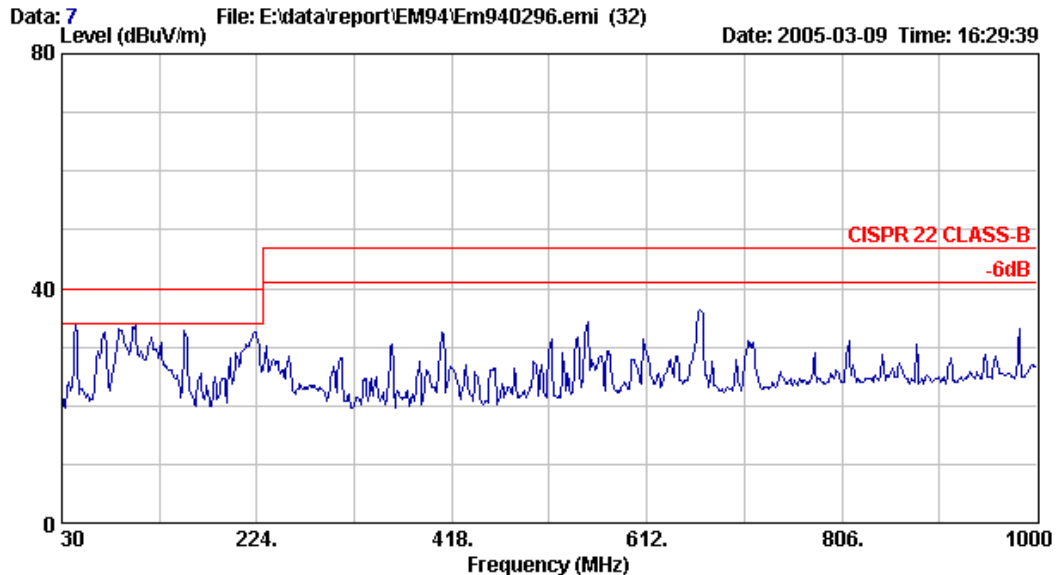
Total Pages : 16



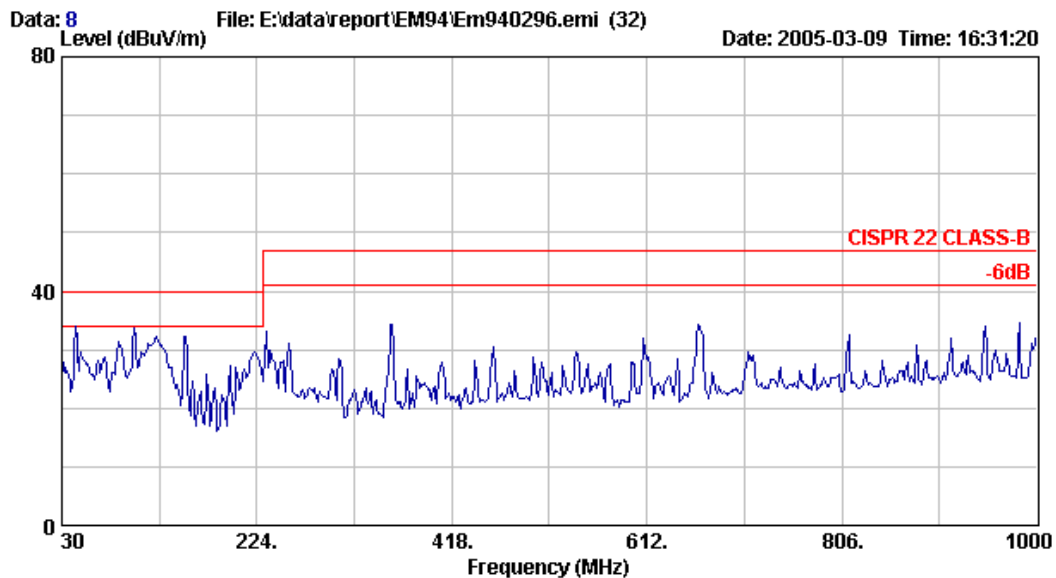
## 《M/N 190B6, LCD Panel: AUO + Lien Chang Power Board》



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Email:ttemc@ttemc.com.tw



Site no. : AUDIX Mini Chamber Data no. : 7  
Dis. / Ant. : 3m CBL6112B (2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480/60Hz 31KHz (D-SUB)  
S/N:TY0404812

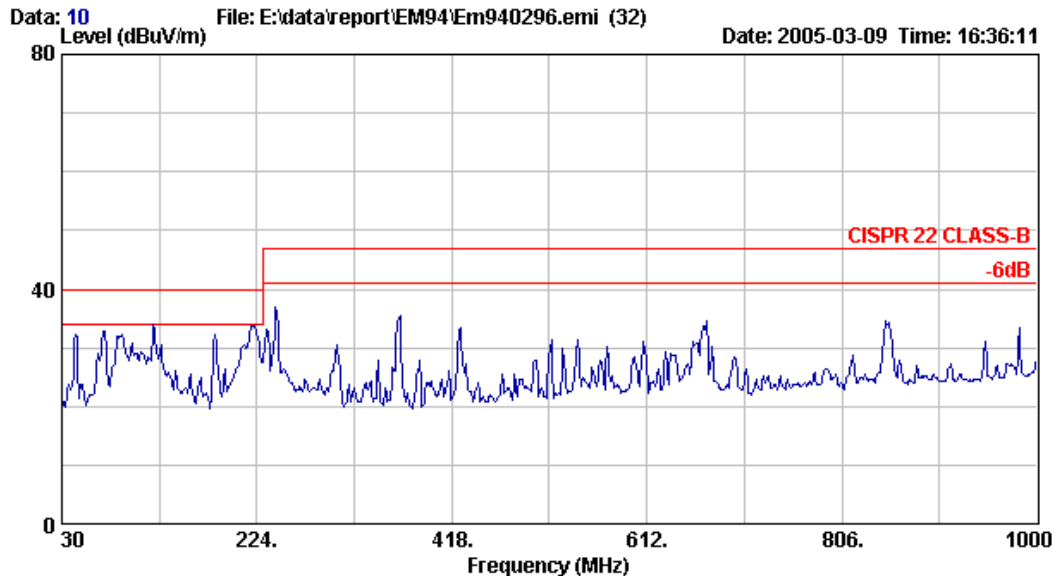


Site no. : AUDIX Mini Chamber Data no. : 8  
Dis. / Ant. : 3m CBL6112B (2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480/60Hz 31KHz (D-SUB)  
S/N:TY0404812

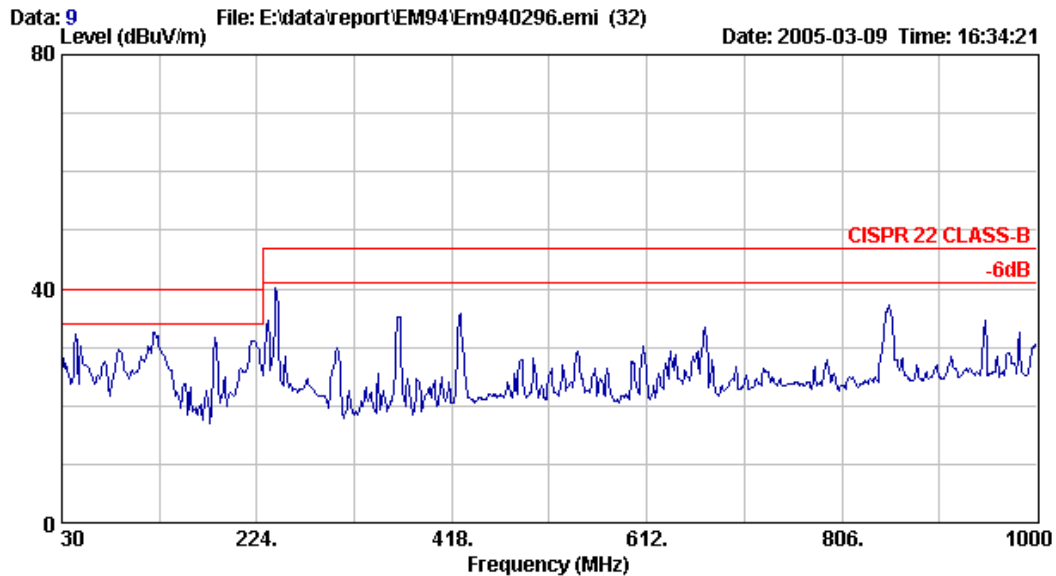




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Email:ttenc@ttenc.com.tw



Site no. : AUDIX Mini Chamber Data no. : 10  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768/75Hz 60KHz (D-SUB)  
S/N:TY0404812

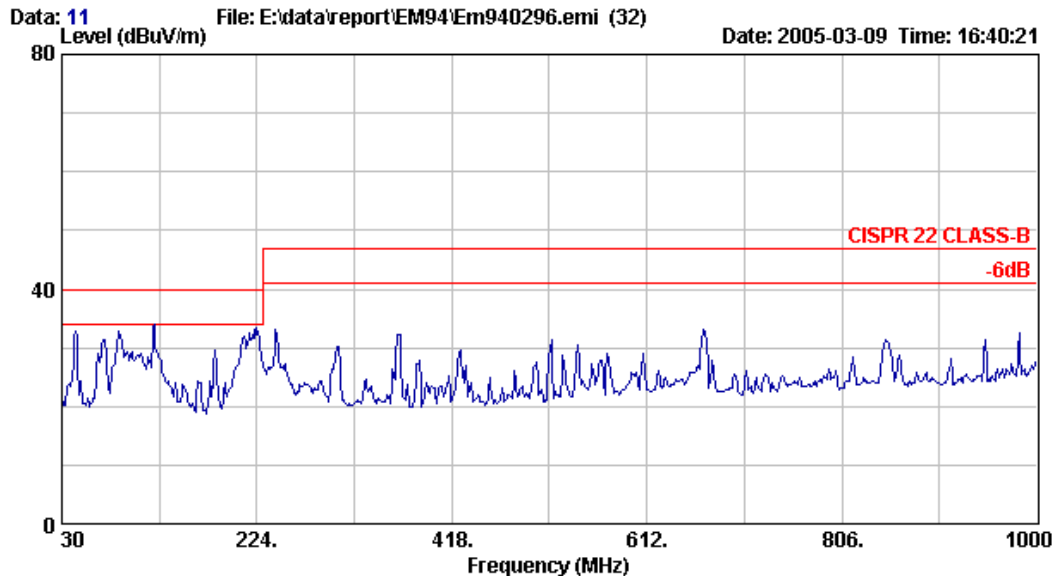


Site no. : AUDIX Mini Chamber Data no. : 9  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768/75Hz 60KHz (D-SUB)  
S/N:TY0404812

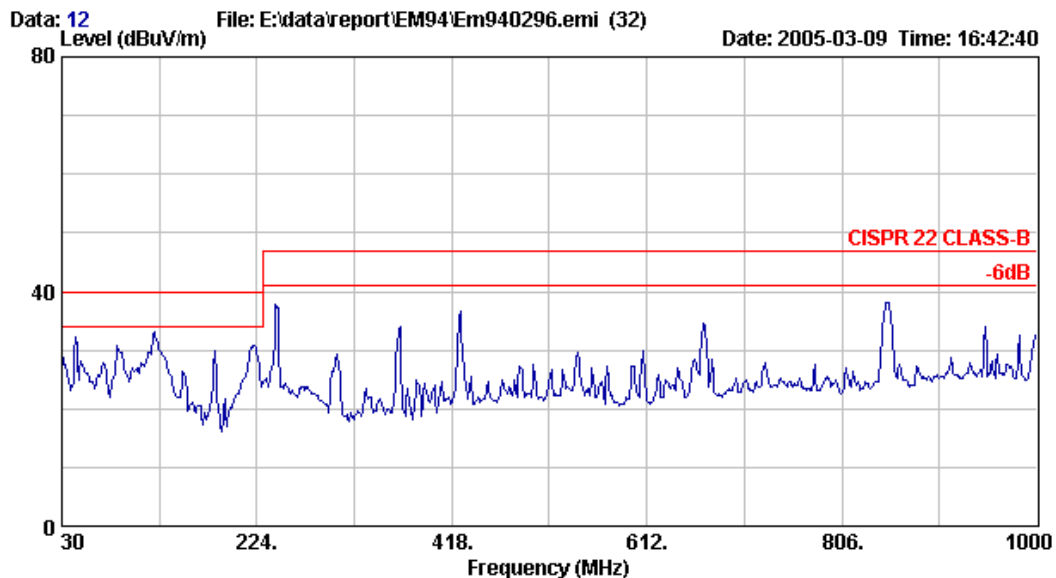




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Site no. : AUDIX Mini Chamber Data no. : 11  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz (D-SUB)  
S/N:TY0404812

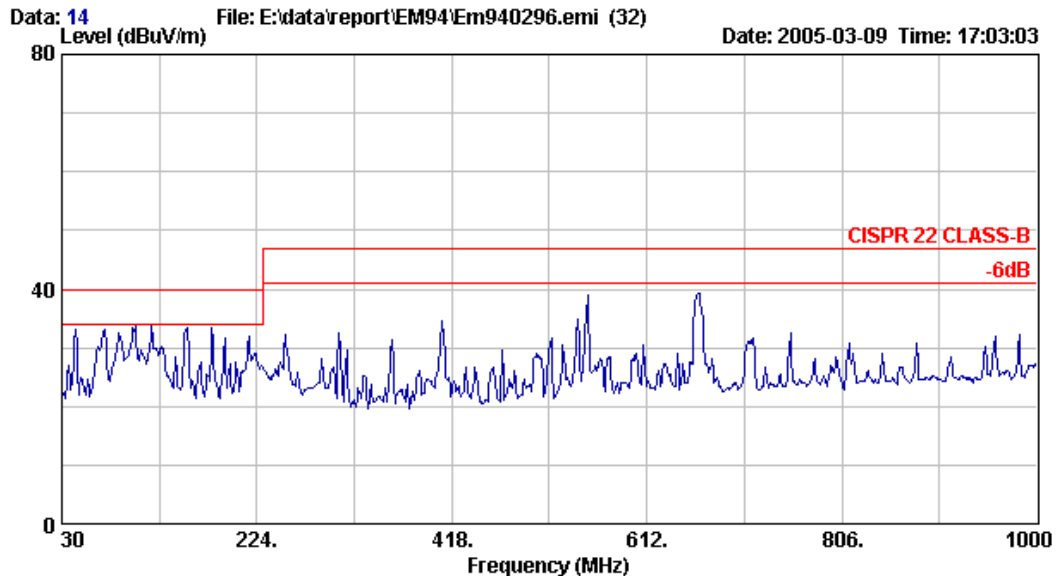


Site no. : AUDIX Mini Chamber Data no. : 12  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz (D-SUB)  
S/N:TY0404812

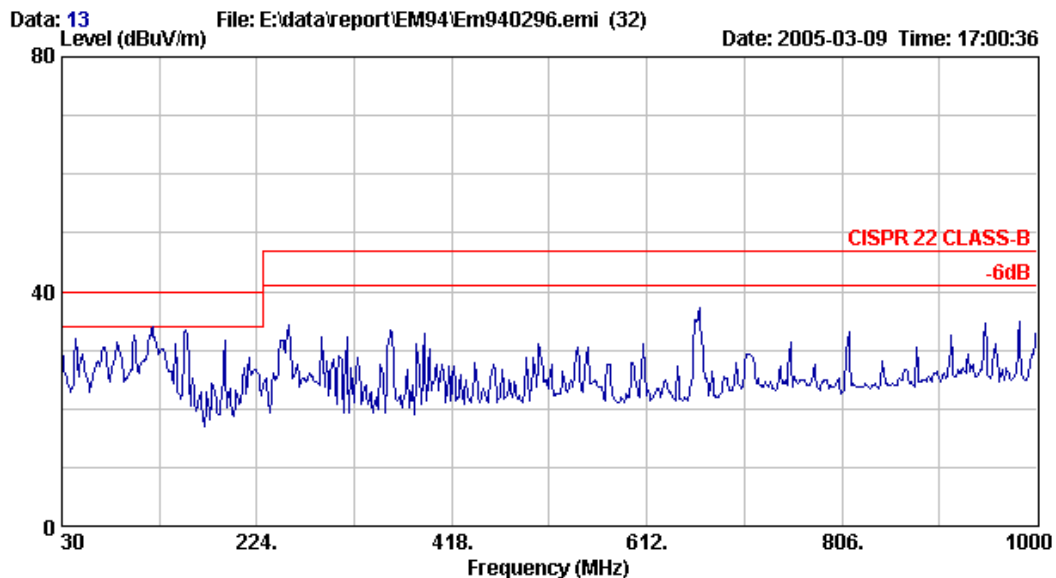




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Site no. : AUDIX Mini Chamber Data no. : 14  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480/60Hz 31KHz (DVI)  
S/N:TY0404812

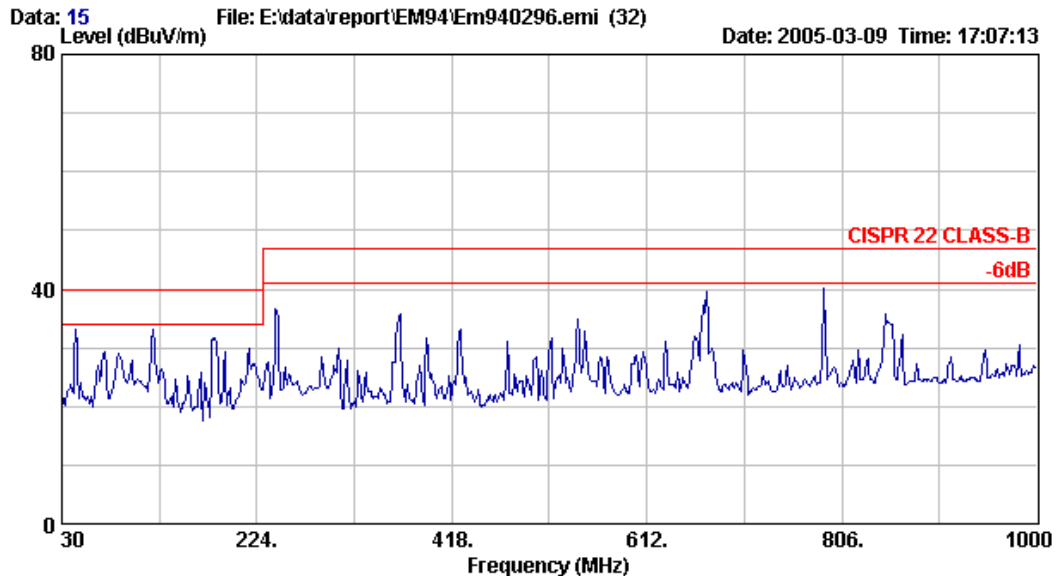


Site no. : AUDIX Mini Chamber Data no. : 13  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480/60Hz 31KHz (DVI)  
S/N:TY0404812

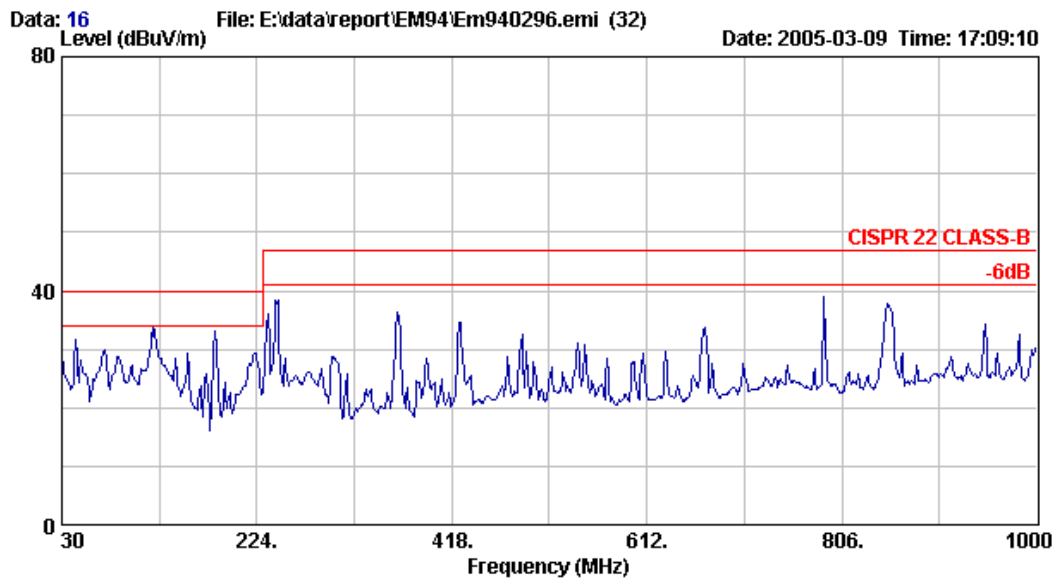




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Site no. : AUDIX Mini Chamber Data no. : 15  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768/75Hz 60KHz (DVI)  
S/N:TY0404812

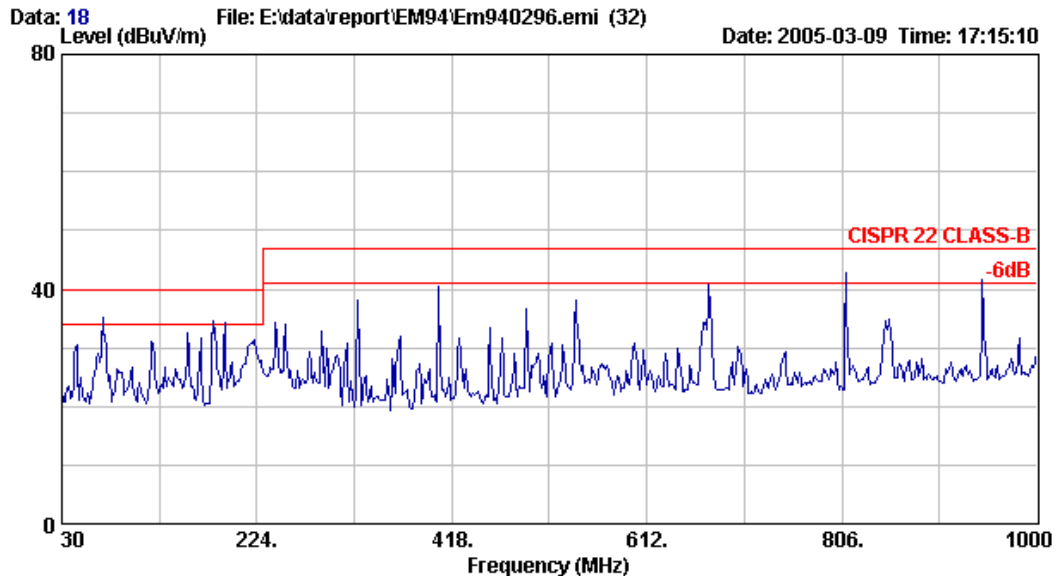


Site no. : AUDIX Mini Chamber Data no. : 16  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768/75Hz 60KHz (DVI)  
S/N:TY0404812

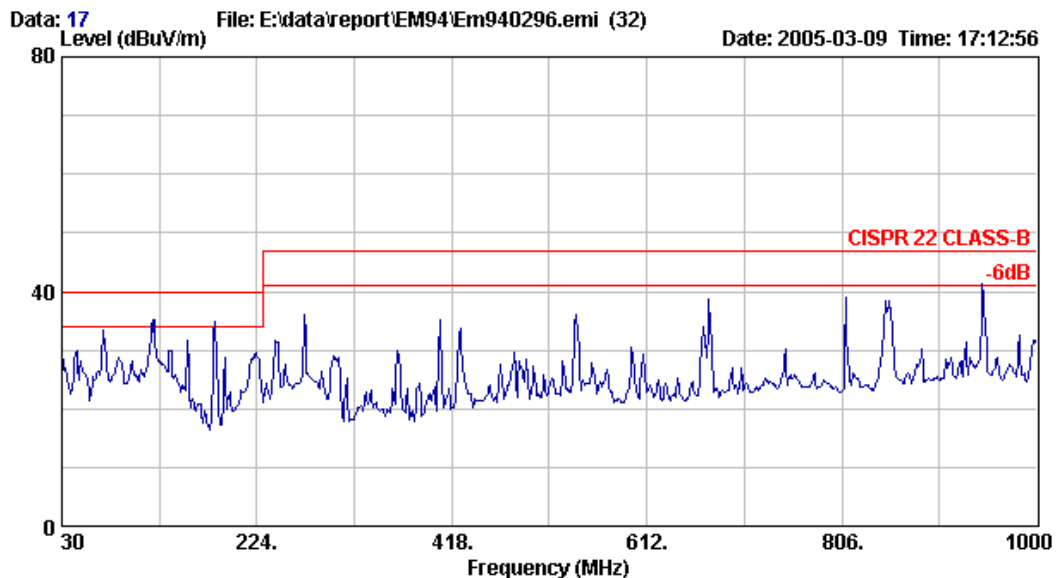




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Site no. : AUDIX Mini Chamber Data no. : 18  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz (DVI)  
S/N:TY0404812



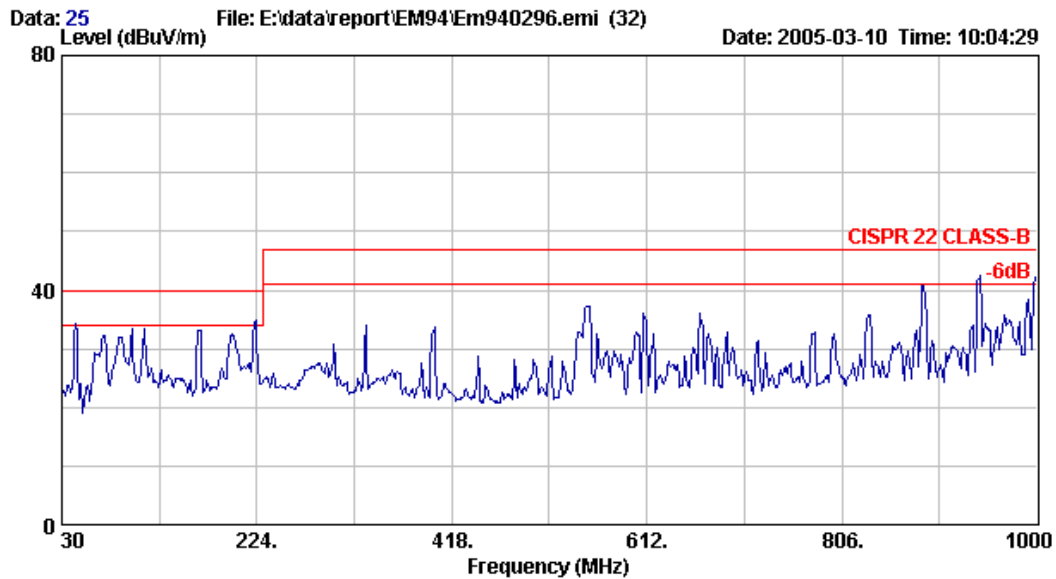
Site no. : AUDIX Mini Chamber Data no. : 17  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190B6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz (DVI)  
S/N:TY0404812



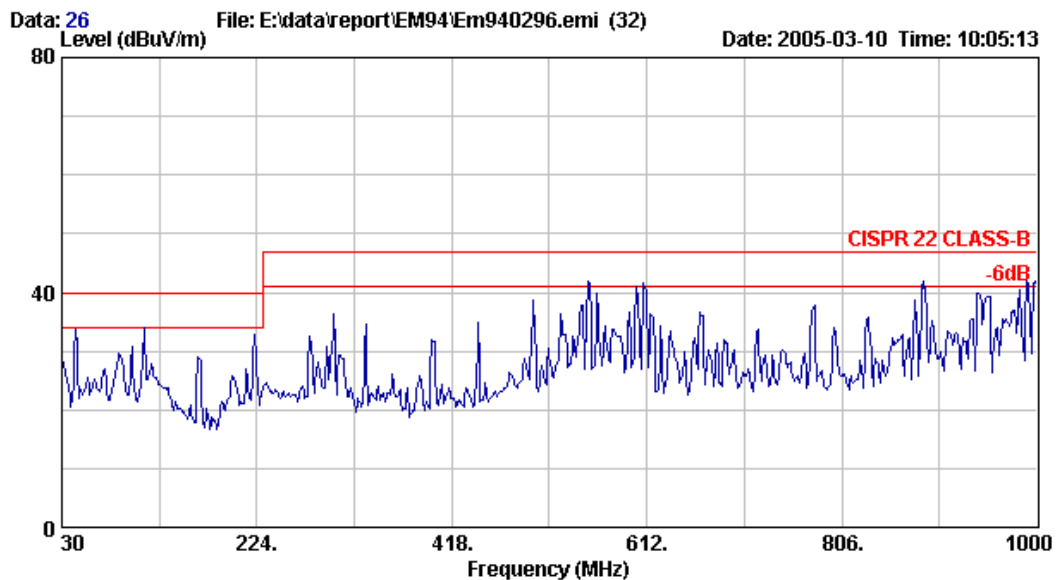
## 《M/N 190P6, LCD Panel: LG Philips + Lien Chang Power Board》



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Site no. : AUDIX Mini Chamber Data no. : 25  
Dis. / Ant. : 3m CBL6112B (2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480/60Hz 31KHz (D-SUB)  
S/N:TY0405016

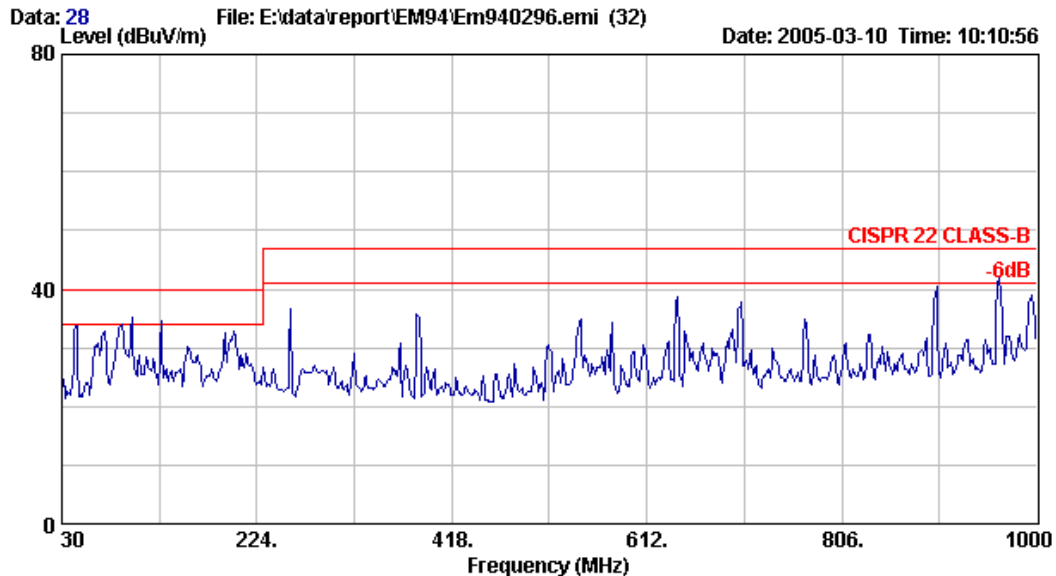


Site no. : AUDIX Mini Chamber Data no. : 26  
Dis. / Ant. : 3m CBL6112B (2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480/60Hz 31KHz (D-SUB)  
S/N:TY0405016

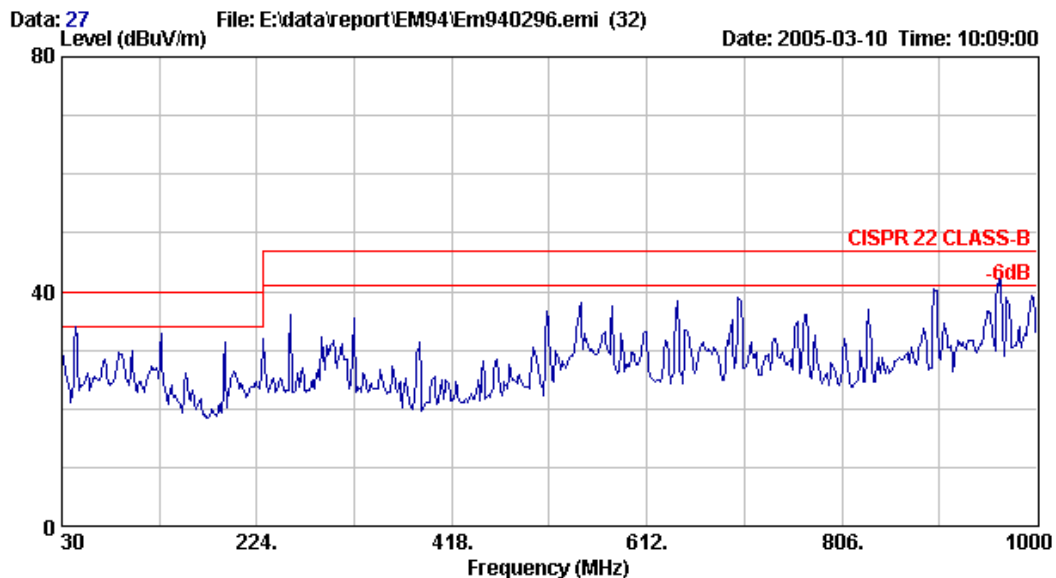




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Email:ttenc@ttenc.com.tw



Site no. : AUDIX Mini Chamber Data no. : 28  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768/75Hz 60KHz (D-SUB)  
S/N:TY0405016

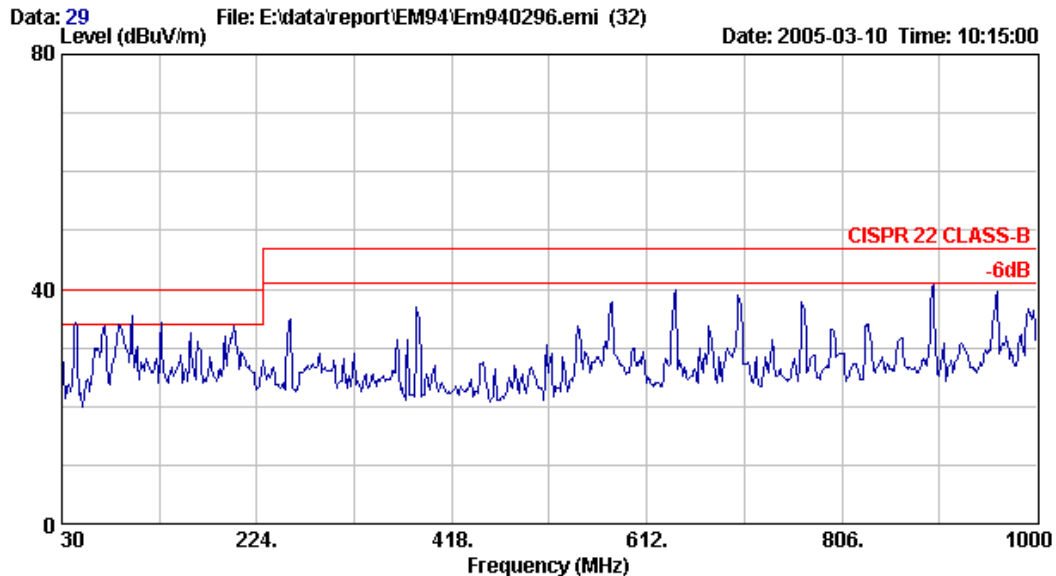


Site no. : AUDIX Mini Chamber Data no. : 27  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768/75Hz 60KHz (D-SUB)  
S/N:TY0405016

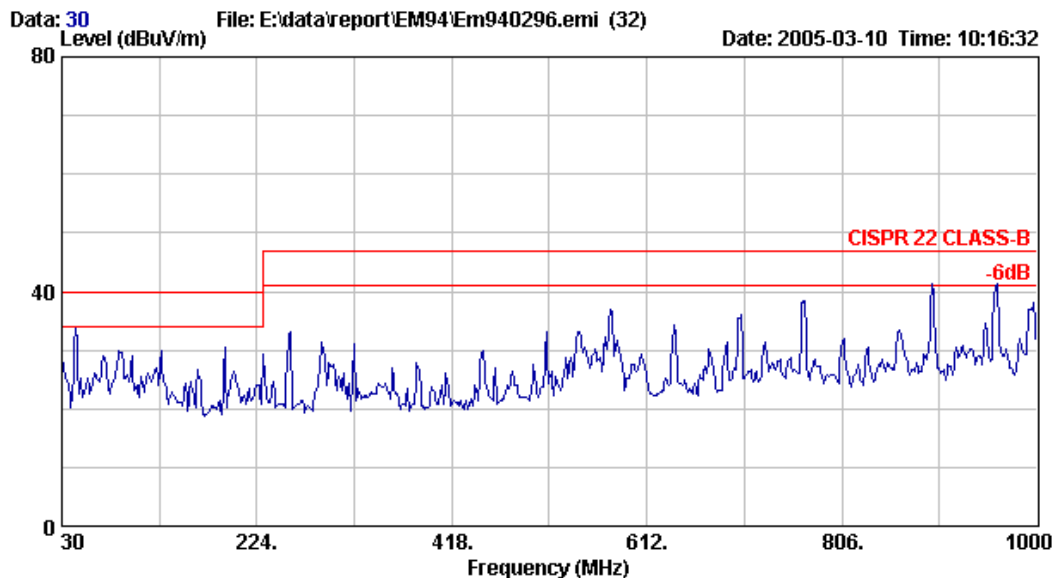




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Email:ttenc@ttenc.com.tw



Site no. : AUDIX Mini Chamber Data no. : 29  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz (D-SUB)  
S/N:TY0405016

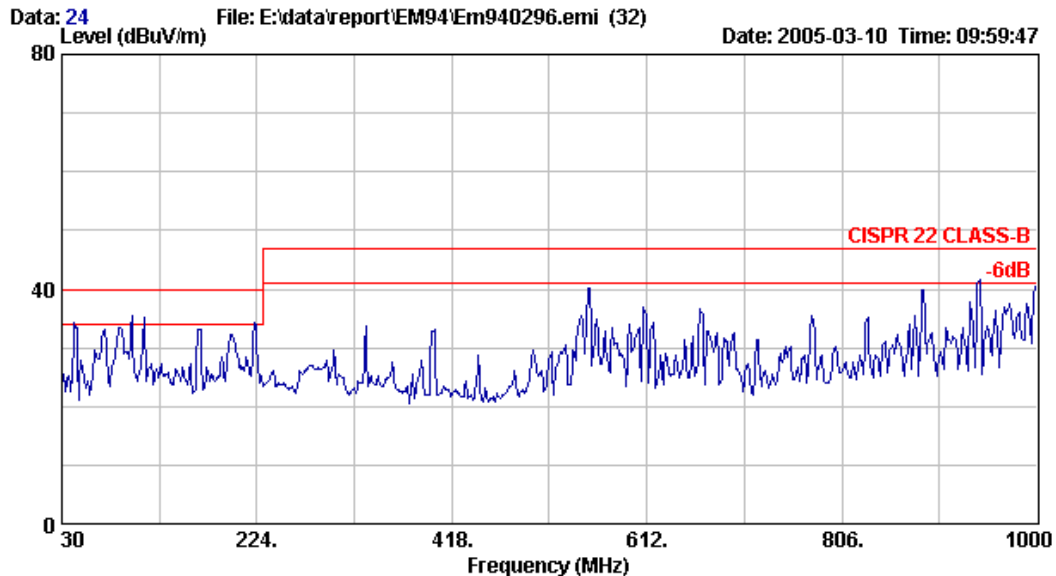


Site no. : AUDIX Mini Chamber Data no. : 30  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz (D-SUB)  
S/N:TY0405016

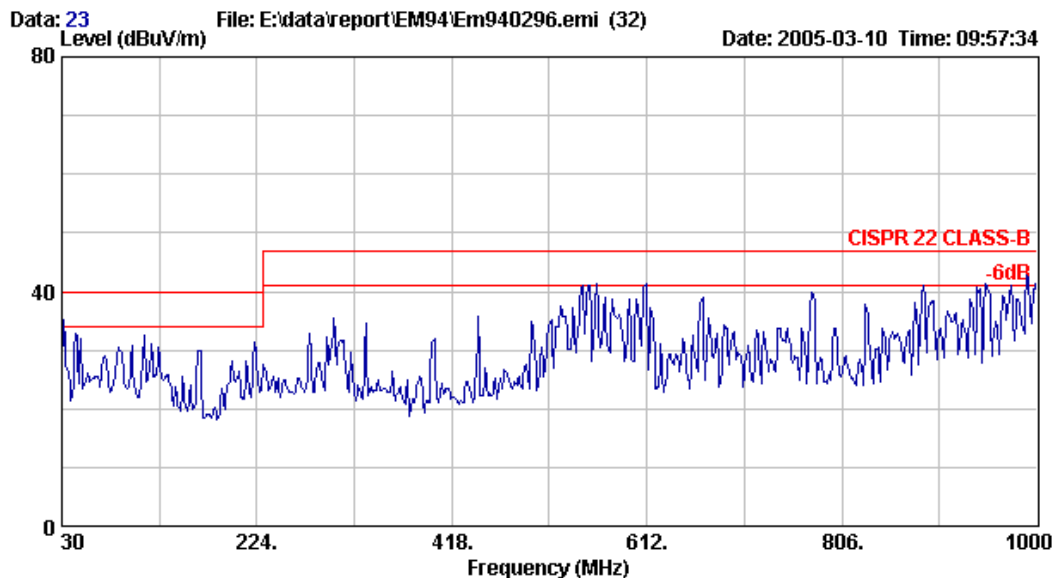




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Site no. : AUDIX Mini Chamber Data no. : 24  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480/60Hz 31KHz (DVI)  
S/N:TY0405016

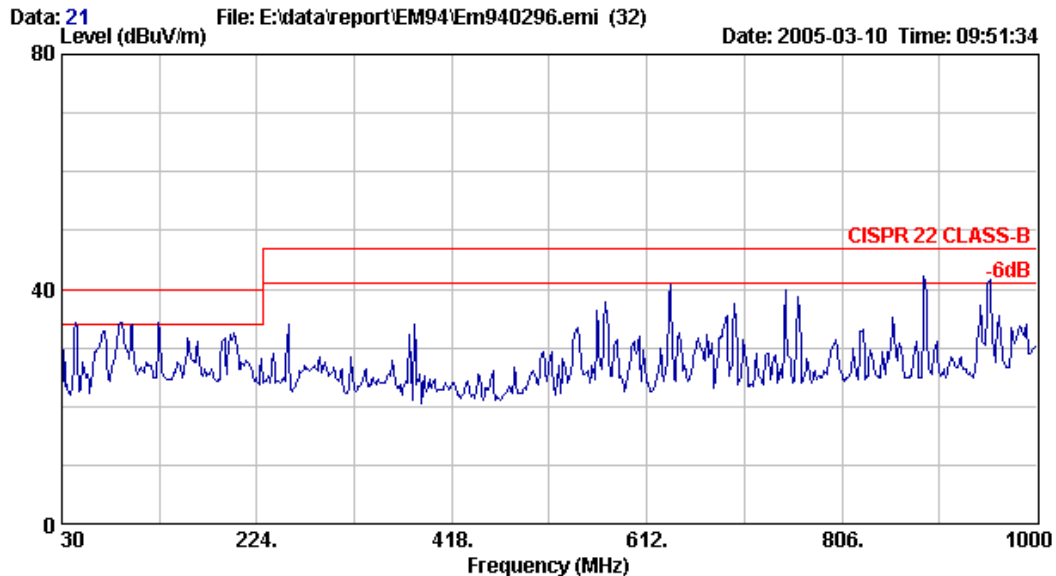


Site no. : AUDIX Mini Chamber Data no. : 23  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480/60Hz 31KHz (DVI)  
S/N:TY0405016

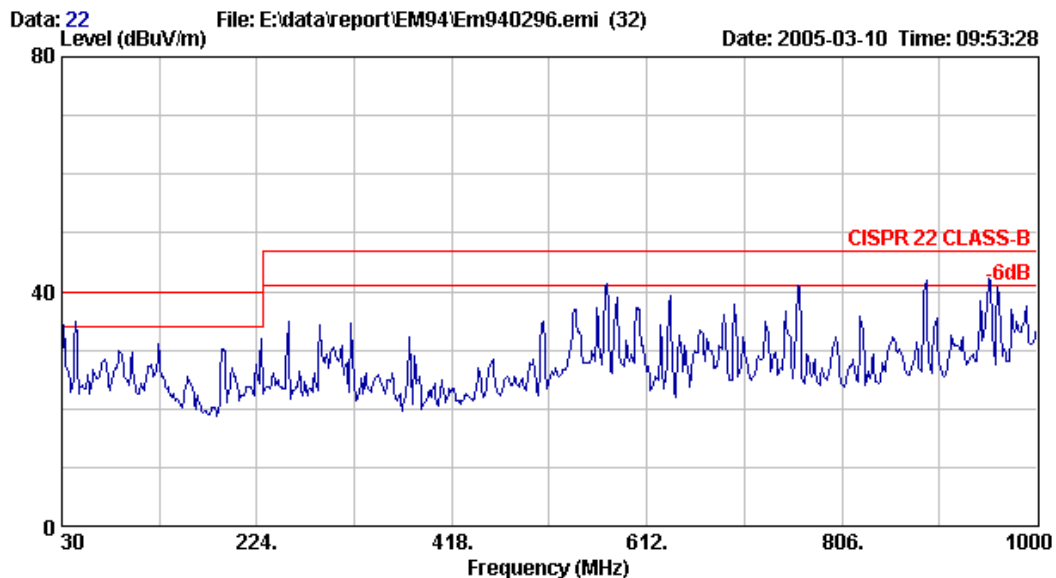




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Site no. : AUDIX Mini Chamber Data no. : 21  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768/75Hz 60KHz (DVI)  
S/N:TY0405016

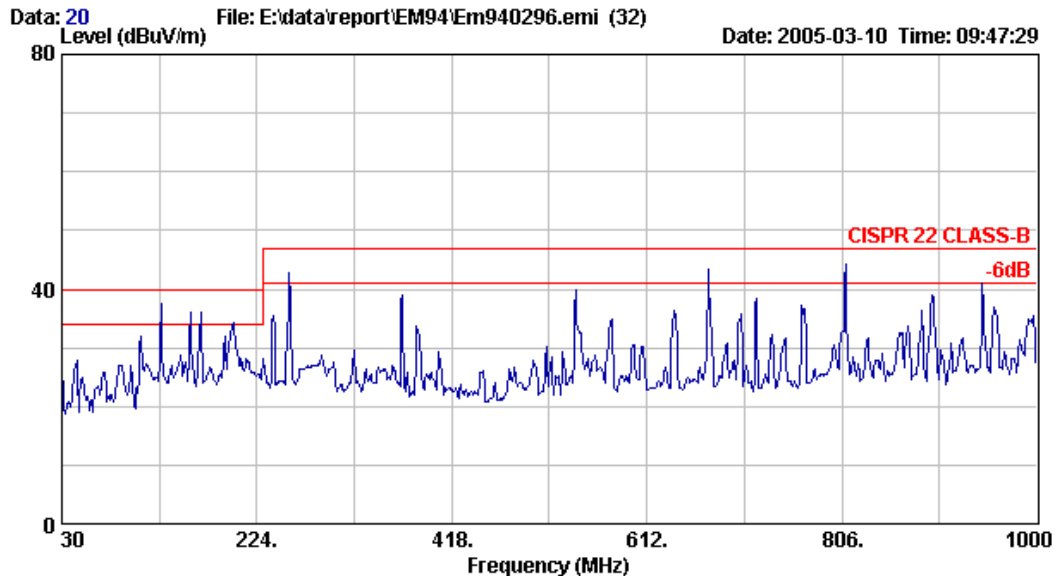


Site no. : AUDIX Mini Chamber Data no. : 22  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768/75Hz 60KHz (DVI)  
S/N:TY0405016

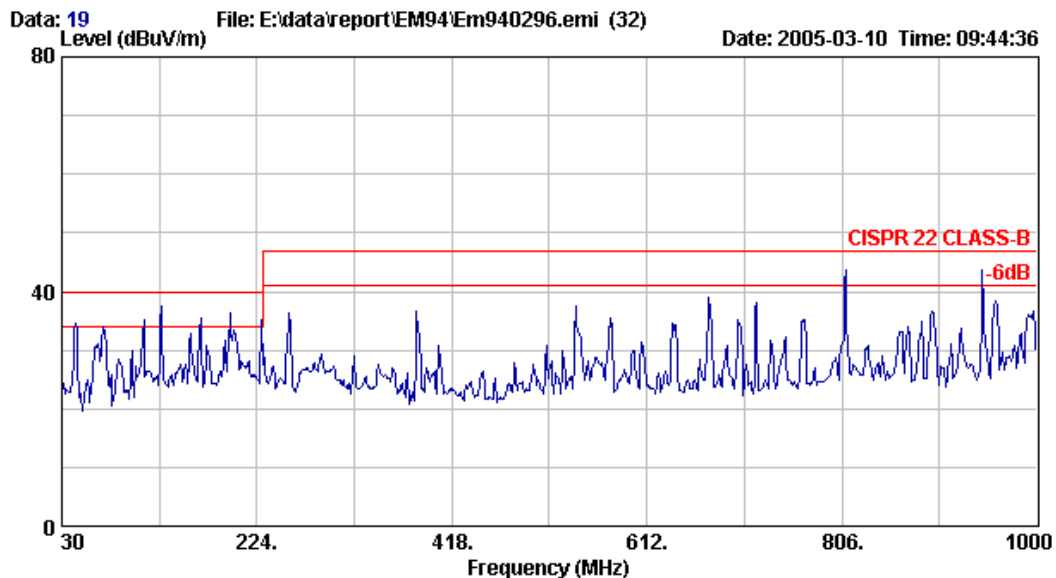




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Site no. : AUDIX Mini Chamber Data no. : 20  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz (DVI)  
S/N:TY0405016

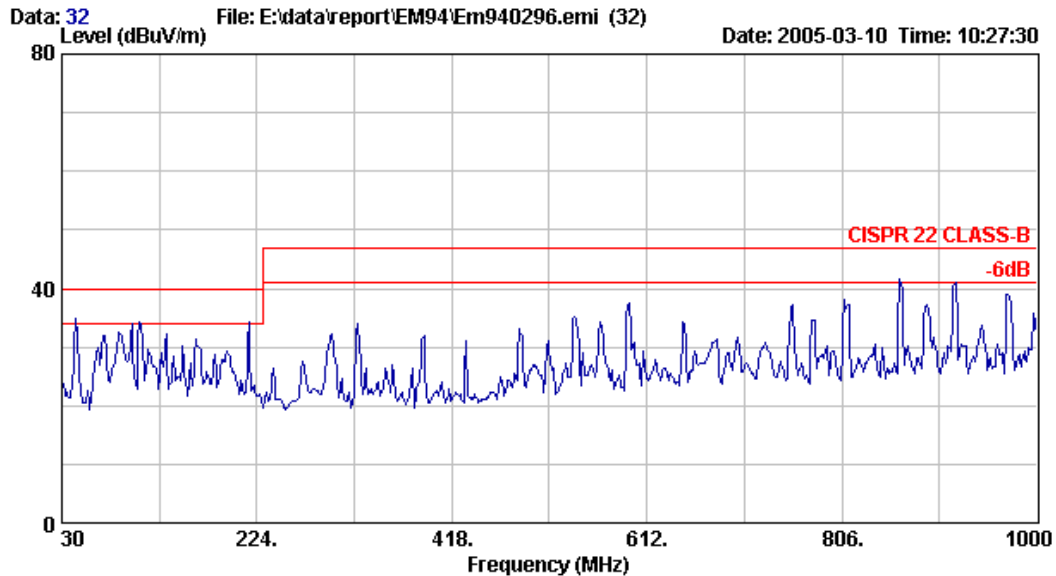


Site no. : AUDIX Mini Chamber Data no. : 19  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz (DVI)  
S/N:TY0405016

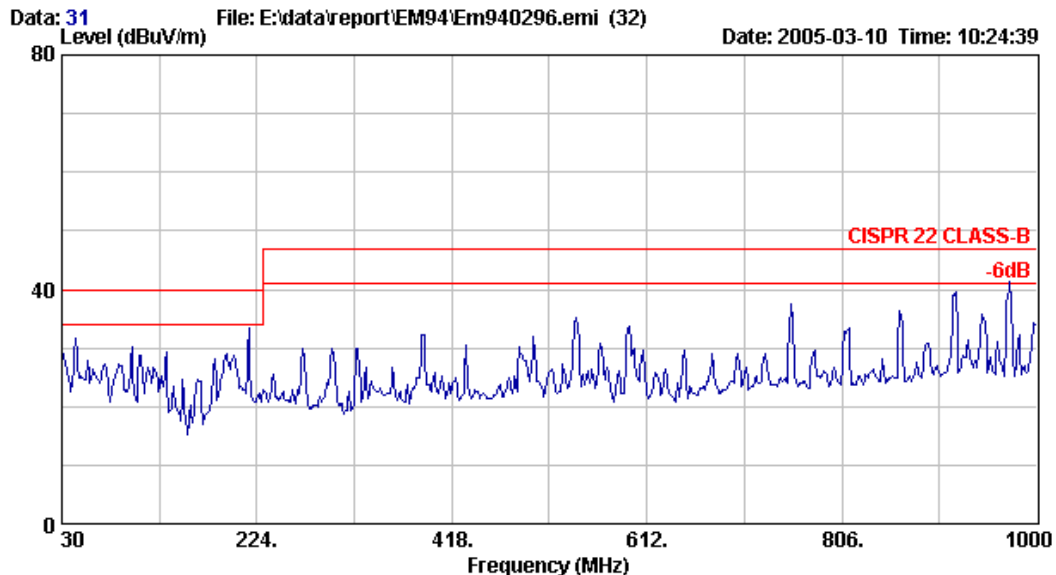




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Site no. : AUDIX Mini Chamber Data no. : 32  
Dis. / Ant. : 3m CBL6112B (2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*1280/60Hz - Rotate (DVI)  
S/N:TY0405016



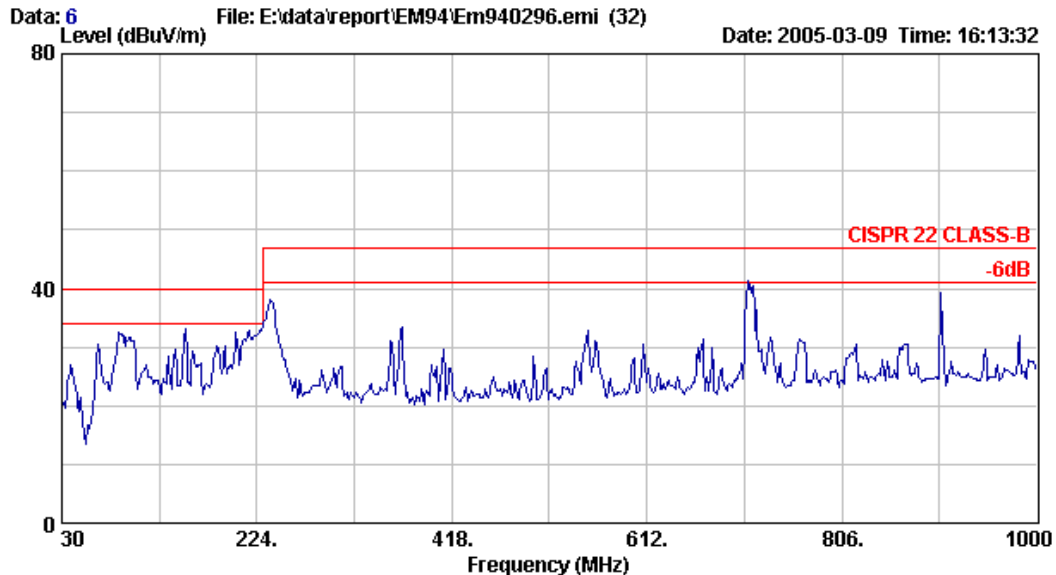
Site no. : AUDIX Mini Chamber Data no. : 31  
Dis. / Ant. : 3m CBL6112B (2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 23°C/45% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190P6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*1280/60Hz - Rotate (DVI)  
S/N:TY0405016



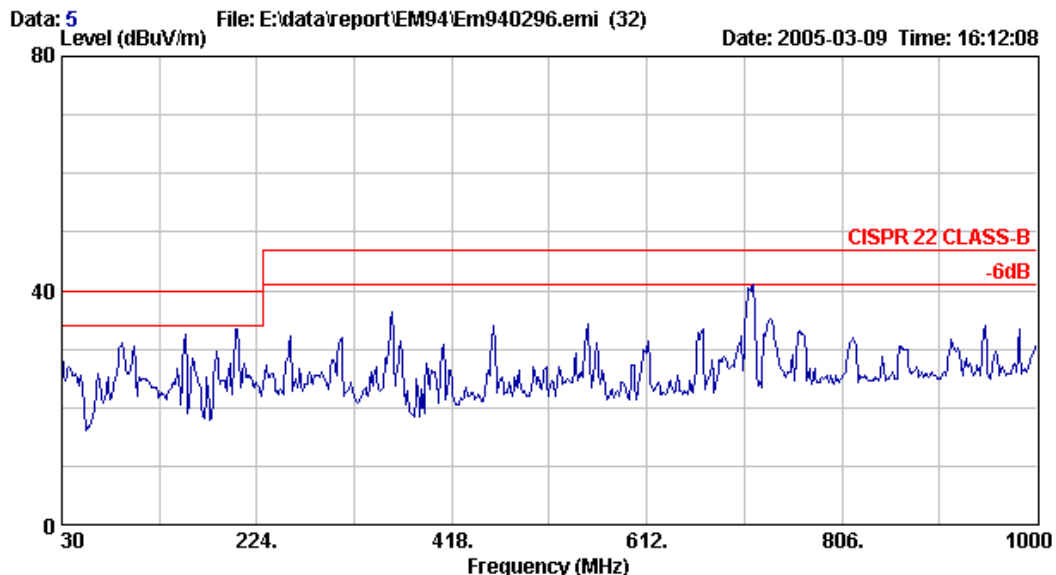
## 《M/N 190S6, LCD Panel: LG Philips + Delta Power Board》



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Site no. : AUDIX Mini Chamber Data no. : 6  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480/60Hz 31KHz  
S/N:TY0404799

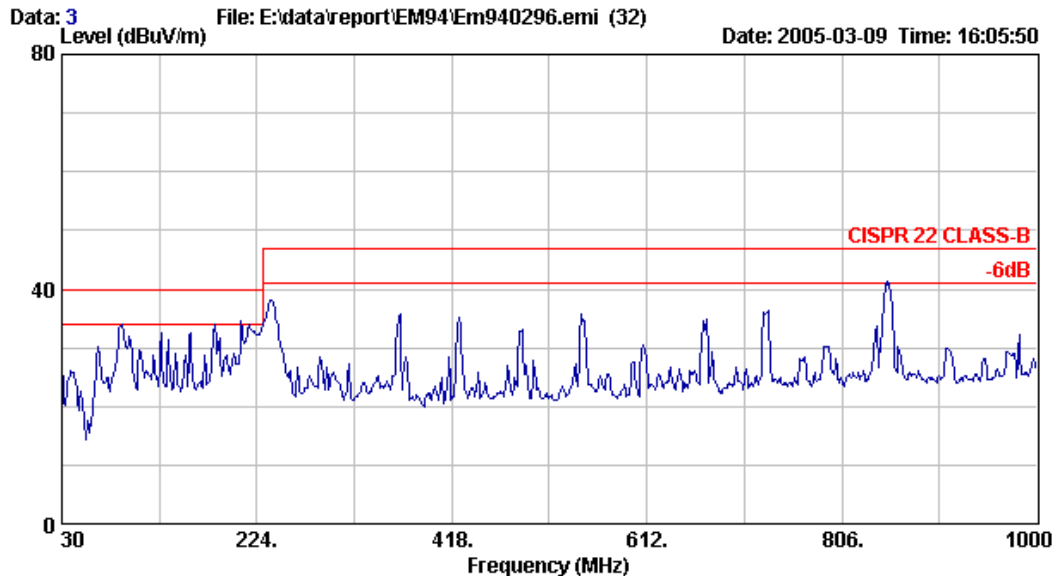


Site no. : AUDIX Mini Chamber Data no. : 5  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480/60Hz 31KHz  
S/N:TY0404799

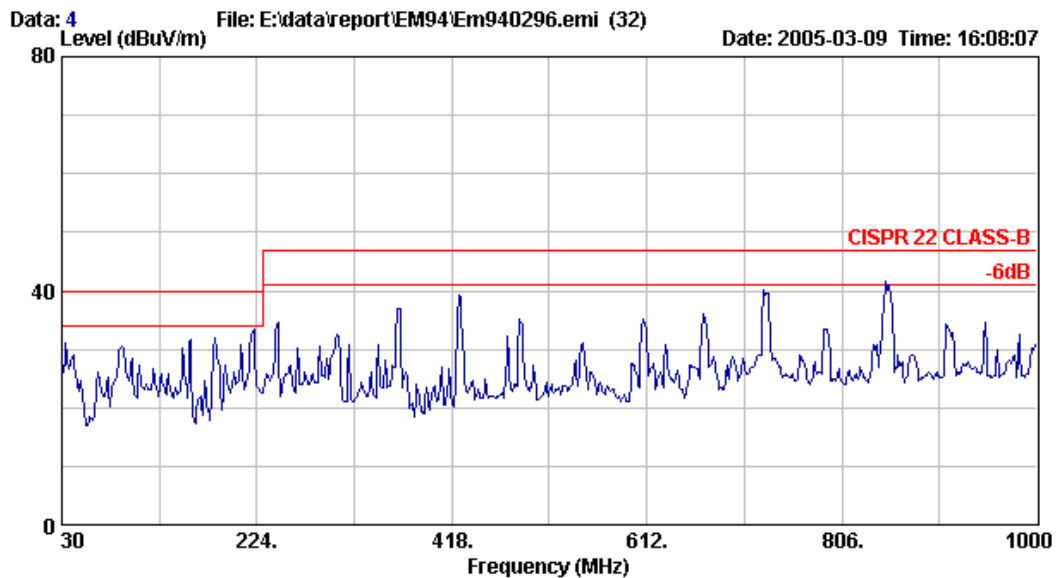




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Site no. : AUDIX Mini Chamber Data no. : 3  
Dis. / Ant. : 3m CBL6112B (2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768/75Hz 60KHz  
S/N:TY0404799

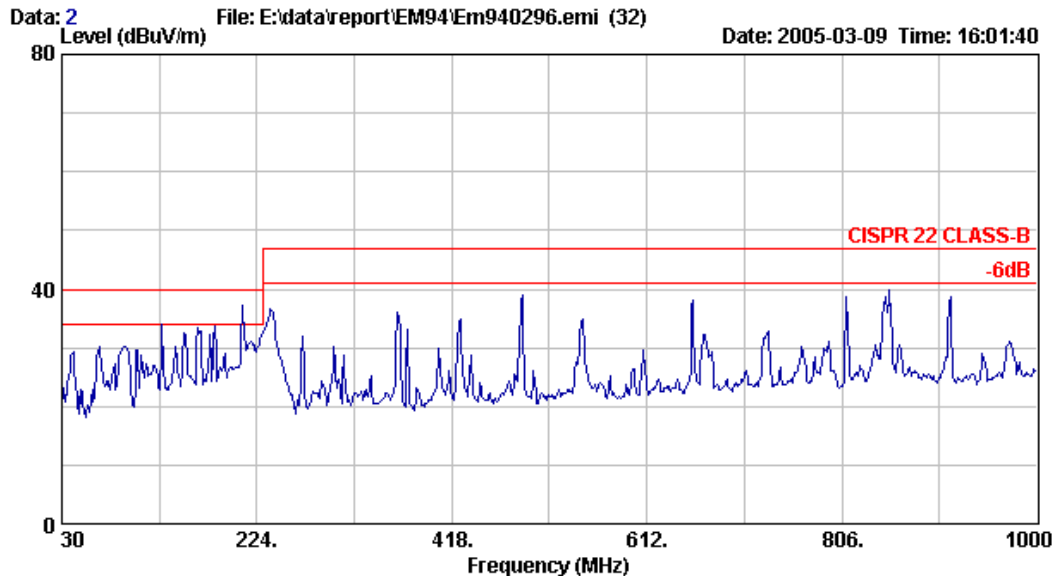


Site no. : AUDIX Mini Chamber Data no. : 4  
Dis. / Ant. : 3m CBL6112B (2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz  
Test Mode : 1024\*768/75Hz 60KHz  
S/N:TY0404799

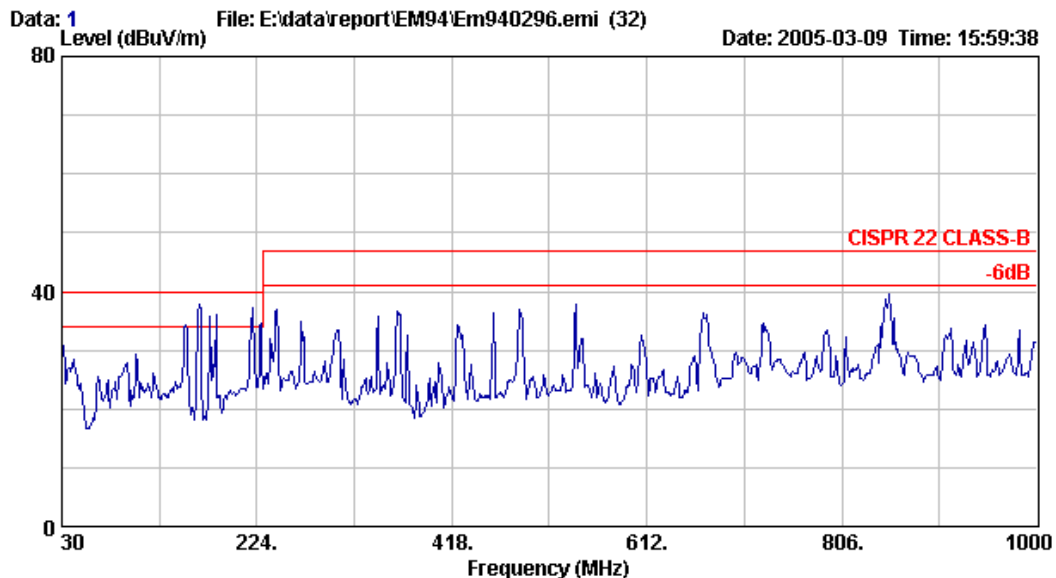




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Site no. : AUDIX Mini Chamber Data no. : 2  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz  
S/N:TY0404799



Site no. : AUDIX Mini Chamber Data no. : 1  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun  
EUT : Flat Panel Color Monitor M/N:190S6  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024/75Hz 80KHz  
S/N:TY0404799