

TEST REPORT FOR CERTIFICATION  
On Behalf for  
Philips Electronics Industries (Taiwan) Ltd.  
20" Flat Panel Color Monitor  
Model No.: 200P7  
FCC ID. : A3KM148  
Brand: PHILIPS

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

Prepared By : Audix Corporation  
Technical Division EMC Department  
No. 53-11, Tin-Fu Tsun, Lin-Kou,  
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File Number : EM941312  
Report Number : EM-F940273  
Date of Test : Nov. 16 ~ 17, 2005  
Date of Report : Nov. 22, 2005

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## TEST REPORT CERTIFICATION

Applicant : Philips Electronics Industries (Taiwan) Ltd.  
 Manufacturer : Philips Electronics Industries (Taiwan) Ltd.  
 Factory #1 : Philips Consumer Elec. Co. of Suzhou Ltd.  
 Factory #2 : TPV Electronics (Fujian) Co.,Ltd  
 EUT Description : 20" Flat Panel Color Monitor  
 FCC ID. : A3KM148  
           (A) MODEL NO. : 200P7  
           (B) SERIAL NO. : TY0405334  
           (C) BRAND : PHILIPS  
           (D) POWER SUPPLY : AC 100V-240V~, 60-50Hz  
           (E) TEST VOLTAGE : AC 120V/60Hz

Measurement Procedure Used:

FCC CFR 47 Part 15 Subpart B/Sep. 2005 and CISPR 22/1997  
 ANSI C63.4-2003

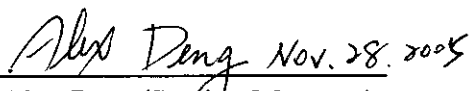
The device described above was tested by AUDIX Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 Subpart B with the provisions of section §15.107 (a) and §15.109 (a)(g) Class B limits both conducted and radiated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

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

Date of Test : Nov, 16 ~ 17, 2005

Prepared by :  Nov. 28, 2005  
 (Nita Lee/Assistant Administrator)

Test Engineer :  Nov. 28, 2005  
 (Alex Deng/Section Manager)

Approved & Authorized Signer :  Nov. 28, 2005  
 (Leon Liu/Senior Manager)

# 1. GENERAL INFORMATION

## 1.1. Description of Device

Description	:	20" Flat Panel Color Monitor
FCC ID	:	A3KM148
Model Number	:	200P7
Serial Number	:	TY0405334
Brand	:	PHILIPS
Applicant	:	Philips Electronics Industries (Taiwan) Ltd. 5, Tze Chiang 1 Road, Chungli Industrial Park Chungli, Taoyuan, 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	:	Philips Consumer Elec. Co. of Suzhou Ltd. No. 161, Zhujiang Road, New District, Suzhou 215011, PRC
Factory #2	:	TPV Electronics (Fujian) Co.,Ltd Shangzheng, Yuanhong Road, Fuqing, Fujian, China
LCD Panel	:	LPL, M/N LM201U04-SL02
Scanning Frequency	:	Horizontal: 30-93kHz Vertical: 56-85Hz
Max Resolution	:	1600*1200/75Hz (D-Sub) 1600*1200/60Hz (DVI)
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
USB Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores

Power Cord : Non-Shielded, Detachable, 1.8m (3 pin)

Date of Receipt of Sample : Nov. 16, 2005

Date of Test : Nov. 16 ~ 17, 2005

## 1.2. Tested Supporting System Details

### 1.2.1. PC SYSTEM

Model Number : DMC (Dell Dim 4600PC)

FCC ID : By DoC

Manufacturer : Dell

BSMI ID : R33002

VGA Card : Nvidia FX5200

Power Cord : Non-Shielded, Detachable, 1.8m

### 1.2.2. KEYBOARD

Model Number : SK-8110

FCC ID : By DoC

BSMI ID : T3A002

Manufacturer : Dell

Data Cable : Shielded, Undetachable, 1.5m

### 1.2.3. MOUSE

Model Number : M071KC

FCC ID : By DoC

BSMI ID : R41108

Manufacturer : Dell

Data Cable : Non-Shielded, Undetachable, 1.8m

### 1.2.4. DOT MATRIX PRINTER

Model Number : KX-P2135

Serial Number : 8DMCN02139

FCC ID : ACJ5Z6KX-P2135

BSMI ID : 3872A371

Manufacturer : Matsushita (Brand: Panasonic)

Data Cable : Shielded, Detachable, 1.5m

Power Cord : Non-Shielded, Detachable, 1.8m

### 1.2.5. MODEM

Model Number : DM-1414

Serial Number : 980034395

FCC ID : IFAXDM1414

Manufacturer : Aceex

Data Cable : Shielded, Detachable, 1.2m

Power Adapter : Amigo, Model AM-91000A

Non-Shielded, Undetachable, 1.8m

## 1.2.6. MICROPHONE

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

## 1.2.7. USB2.0 EXTERNAL HARD DISK DRIVE #1 - LINK TO EUT

Model Number : F12-U  
 Serial Number : A0100214-4B90009  
 FCC ID : By DoC  
 BSMI ID : 3902C223  
 Manufacturer : TeraSys  
 Data Cable : Shielded, Detachable, 1.0m  
 AC Adapter : YHI, M/N YS-1015-U12  
 BSMI ID 4872A185  
 I/P: 100-240VAC, 60/50Hz, 0.45A  
 O/P: +12VDC, 1.25A  
 Cord: Non-Shielded, Undetachable, 1.5m  
 Bonded a ferrite core

## 1.2.8. USB2.0 EXTERNAL HARD DISK DRIVE #2 - LINK TO EUT

Model Number : F12  
 Serial Number : A0100214-5910010  
 FCC ID : By DoC  
 BSMI ID : 3902C223  
 Manufacturer : TeraSys  
 Data Cable : Shielded, Detachable, 1.0m  
 AC Adapter : YHI, M/N YS-1015-U12  
 BSMI ID 4872A185  
 I/P: 100-240VAC, 60/50Hz, 0.45A  
 O/P: +12VDC, 1.25A  
 Cord: Non-Shielded, Undetachable, 1.5m  
 Bonded a ferrite core

## 1.2.9. USB2.0 EXTERNAL HARD DISK DRIVE #3 - LINK TO EUT

Model Number : F12  
 Serial Number : A0100214-5780005  
 FCC ID : By DoC  
 BSMI ID : 3902C223  
 Manufacturer : TeraSys  
 Data Cable : Shielded, Detachable, 1.0m  
 AC Adapter : YHI, M/N YS-1015-U12  
 BSMI ID 4872A185  
 I/P: 100-240VAC, 60/50Hz, 0.45A  
 O/P: +12VDC, 1.25A  
 Cord: Non-Shielded, Undetachable, 1.5m  
 Bonded a ferrite core

## 1.2.10.USB2.0 EXTERNAL HARD DISK DRIVE #4 - LINK TO EUT

Model Number	:	F12-U
Serial Number	:	A0100214-4CG0011
FCC ID	:	By DoC
BSMI ID	:	3902C223
Manufacturer	:	TeraSys
Data Cable	:	Shielded, Detachable, 1.0m
AC Adapter	:	YHI, M/N YS-1015-U12
		BSMI ID 4872A185
		I/P: 100-240VAC, 60/50Hz, 0.45A
		O/P: +12VDC, 1.25A
		Cord: Non-Shielded, Undetachable, 1.5m
		Bonded a ferrite core

## 1.2.11. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08697
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

## 1.2.12. SPEAKER

Model Number	:	J-008
Serial Number	:	97-C-008923-T
Manufacturer	:	(J-S) JAZZ HIPSTER
Data Cable	:	Non-Shielded, Undetachable, 1m

### 1.3. Description of Test Facility

Name of Firm : **Audix Corporation**  
 Technical Division EMC Department  
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,  
 Taipei County 24443, Taiwan, R.O.C.

Test Location : **No. 4 Shielded Room**  
 (C4/R3/Simple Anechoic Chamber) No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang,  
 Taipei County 24443, Taiwan, R.O.C.

**No. 3 Open Area Test Site**  
 No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang,  
 Taipei County 24443, Taiwan, R.O.C.

Feb. 10, 2003 Re-File on  
 Federal Communication Commission  
 Registration Number: 90996

**Simple Anechoic Chamber**  
 No. 67-4, Tin-Fu Tsun, Lin-Kou,  
 Taipei County, Taiwan, R.O.C.

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

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

### 1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 10m)	30MHz~300MHz	±2.99dB
	300MHz~1000MHz	±2.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	±2.91dB
	300MHz~1000MHz	±2.94dB

Remark : Uncertainty =  $ku_c(y)$



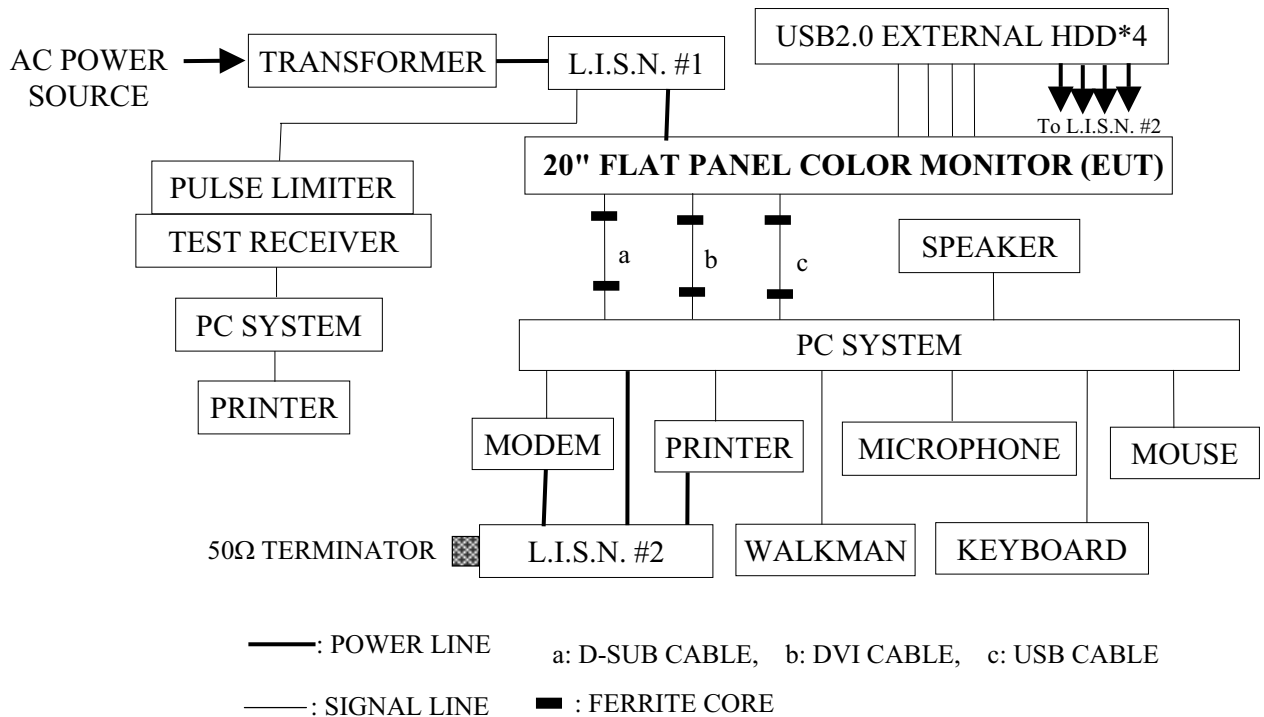
## 2. CONDUCTED EMISSION MEASUREMENT

### 2.1. Test Equipment

The following test equipment was used during the conducted emission measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESHS10	844591/015	Mar. 05, 05'	Mar. 04, 06'
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-1430-5	Sep. 27, 05'	Sep. 26, 06'
3.	L.I.S.N. #2	Kyoritsu	KNW-407	8-1430-6	Sep. 27, 05'	Sep. 26, 06'
4.	Pulse Limiter	R & S	ESH3Z2	004	Apr. 09, 05'	Apr. 08, 06'

### 2.2. Block Diagram of Test Setup



### 2.3. Limits for Conducted Emission (§15.107(a), Class B)

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

Remark1.: 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 equipment were installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application..

### 2.4.1. 20" Flat Panel Color Monitor (EUT)

Model Number	:	200P7
Brand	:	PHILIPS
FCC ID.	:	A3KM148
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
LCD Panel	:	LPL, M/N LM201U04-SL02
Scanning Frequency	:	Horizontal: 30-93kHz Vertical: 56-85Hz
Max Resolution	:	1600*1200/75Hz (D-Sub) 1600*1200/60Hz (DVI)
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
USB Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 pin)

2.4.2. Supporting System : As In Section 1.2.

## 2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown on 2.2.
- 2.5.2. Turned on the power of all equipment.
- 2.5.3. The PC system read data from disk.
- 2.5.4. The PC system running the EMI self-test program "IBM Pattern" by windows XP and sent "H" character to 20" Flat Panel Color Monitor (EUT) through VGA card, the screen displayed and filled with "H" pattern by EUT's resolution via D-Sub or DVI input.
- 2.5.5. The PC system read data from external HDDs and then wrote data into external HDDs via USB inputs.
- 2.5.6. Repeat the above procedures from 2.5.4. to 2.5.5.
- 2.5.7. 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 simulators of the interface cables were manipulated according to FCC ANSI C63.4-2003 during conducted measurement.

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

The frequency range from 0.15MHz 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 the emissions not reported below are too low against the prescribed limits.)

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

EUT: 20" Flat Panel Color Monitor M/N: 200P7

Test Date: Nov. 17, 2005 Temperature: 21°C Humidity: 60%

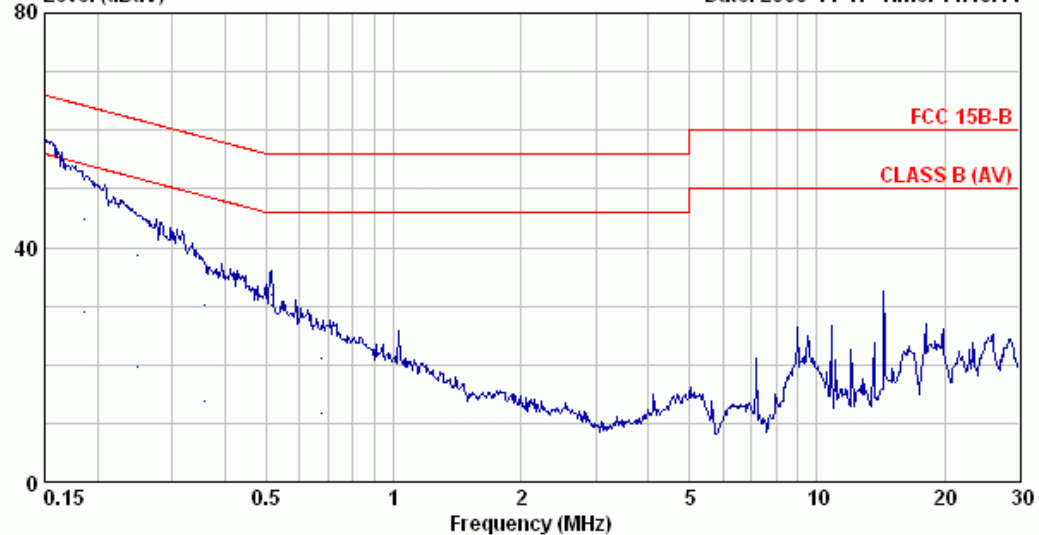
The details of test modes are as follows:

Mode	Input Port	Resolution/ Frequency	Panel Position	Reference Test Data No.	
				Line	Neutral
1.	D-Sub	640*480/60Hz, 31kHz	0°/Horizontal	# 28	# 27
2.		1280*1024/85Hz, 91kHz	0°/Horizontal	# 25	# 26
3.		1600*1200/75Hz, 94kHz	0°/Horizontal	# 24	# 23
5.	DVI	640*480/60Hz, 31kHz	0°/Horizontal	# 17	# 18
6.		1280*1024/75Hz, 80kHz	0°/Horizontal	# 20	# 19
7.		1600*1200/60Hz, 75kHz	0°/Horizontal	# 21	# 22
8.		1200*1600/60Hz	90°/Vertical	# 16	# 15



AUDIX Corp. EMC Laboratory  
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Email:ttmc@ttmc.com.tw

Data: 28 File: C:\Program Files\3\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:48:14



Site : NO.4 Shielded Room Data : 28  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 640\*480 / 60Hz;31KHz(D-SUB)

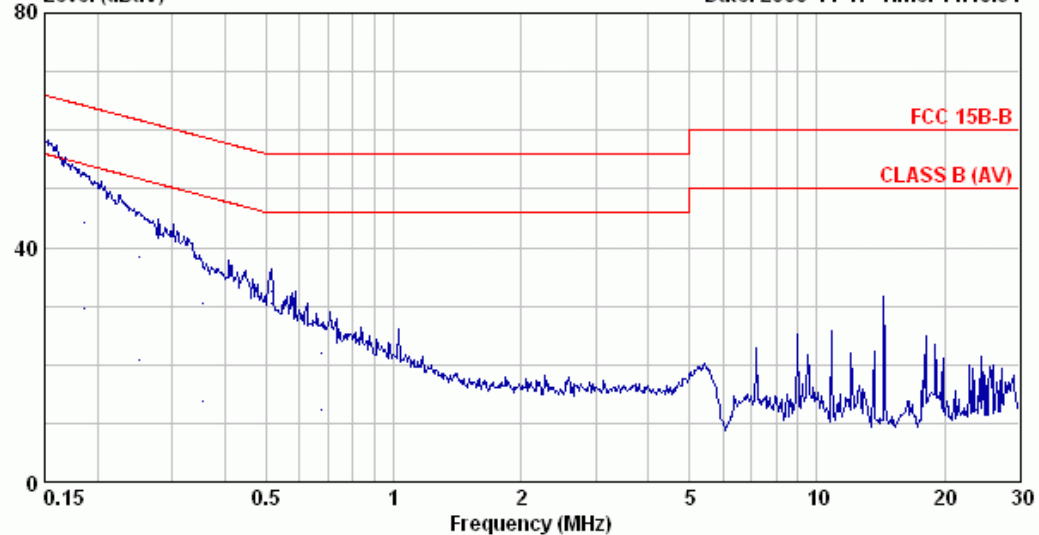
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	51.11	51.61	65.98	14.37	QP
2	0.150	0.30	0.20	35.20	35.70	55.98	20.28	AVERAGE
3	0.187	0.22	0.21	44.27	44.70	64.19	19.49	QP
4	0.187	0.22	0.21	28.48	28.91	54.19	25.28	AVERAGE
5	0.248	0.17	0.22	38.17	38.56	61.82	23.26	QP
6	0.248	0.17	0.22	19.28	19.67	51.82	32.15	AVERAGE
7	0.357	0.12	0.25	29.76	30.13	58.80	28.67	QP
8	0.357	0.12	0.25	13.30	13.67	48.80	35.13	AVERAGE
9	0.513	0.10	0.29	31.60	31.99	56.00	24.01	QP
10	0.513	0.10	0.29	29.72	30.11	46.00	15.89	AVERAGE
11	0.678	0.10	0.32	20.82	21.24	56.00	34.76	QP
12	0.678	0.10	0.32	11.24	11.66	46.00	34.34	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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Data: 27 File: C:\Program Files\3\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:45:31



Site : NO.4 Shielded Room Data : 27  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 640\*480 / 60Hz;31KHz(D-SUB)

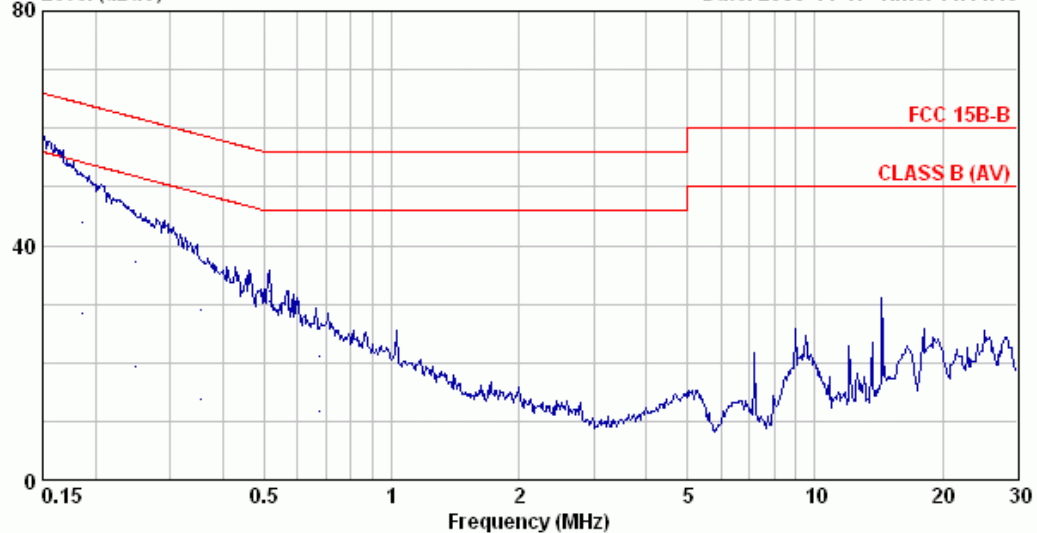
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	50.83	51.33	65.98	14.65	QP
2	0.150	0.30	0.20	36.53	37.03	55.98	18.95	AVERAGE
3	0.185	0.23	0.21	43.83	44.26	64.25	19.98	QP
4	0.185	0.23	0.21	29.11	29.54	54.25	24.70	AVERAGE
5	0.250	0.17	0.22	37.89	38.28	61.75	23.47	QP
6	0.250	0.17	0.22	20.55	20.94	51.75	30.81	AVERAGE
7	0.354	0.12	0.25	29.98	30.35	58.86	28.51	QP
8	0.354	0.12	0.25	13.41	13.78	48.86	35.08	AVERAGE
9	0.515	0.10	0.29	32.08	32.47	56.00	23.53	QP
10	0.515	0.10	0.29	30.04	30.43	46.00	15.57	AVERAGE
11	0.678	0.10	0.32	21.44	21.86	56.00	34.14	QP
12	0.678	0.10	0.32	11.85	12.27	46.00	33.73	AVERAGE

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



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Email:ttmc@ttmc.com.tw

Data: 25 File: C:\Program Files\ie3\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:41:13  
Level (dBuV)



Site : NO.4 Shielded Room Data : 25  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 1280\*1024 / 85Hz; 91KHz (D-SUB)

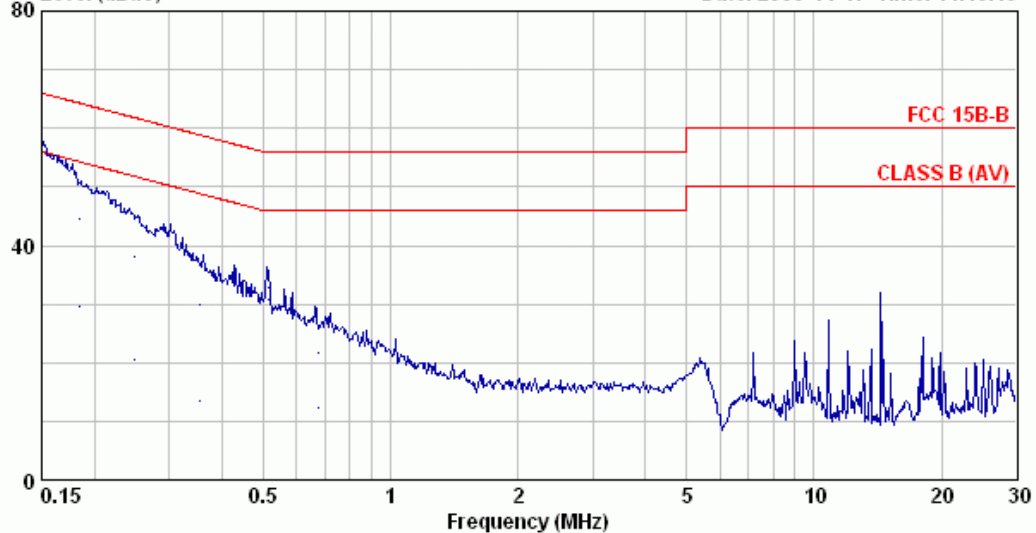
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	50.66	51.16	65.99	14.83	QP
2	0.150	0.30	0.20	35.45	35.95	55.99	20.04	AVERAGE
3	0.186	0.22	0.21	43.39	43.82	64.20	20.38	QP
4	0.186	0.22	0.21	28.03	28.46	54.20	25.74	AVERAGE
5	0.249	0.17	0.22	36.77	37.16	61.80	24.64	QP
6	0.249	0.17	0.22	18.87	19.26	51.80	32.54	AVERAGE
7	0.354	0.12	0.24	28.63	28.99	58.87	29.88	QP
8	0.354	0.12	0.24	13.35	13.71	48.87	35.16	AVERAGE
9	0.514	0.10	0.29	31.82	32.21	56.00	23.79	QP
10	0.514	0.10	0.29	30.18	30.57	46.00	15.43	AVERAGE
11	0.678	0.10	0.32	20.74	21.16	56.00	34.84	QP
12	0.678	0.10	0.32	11.29	11.71	46.00	34.29	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: 26 File: C:\Program Files\ie3\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:43:19  
Level (dBuV)



Site : NO.4 Shielded Room Data : 26  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 1280\*1024 / 85Hz; 91KHz (D-SUB)

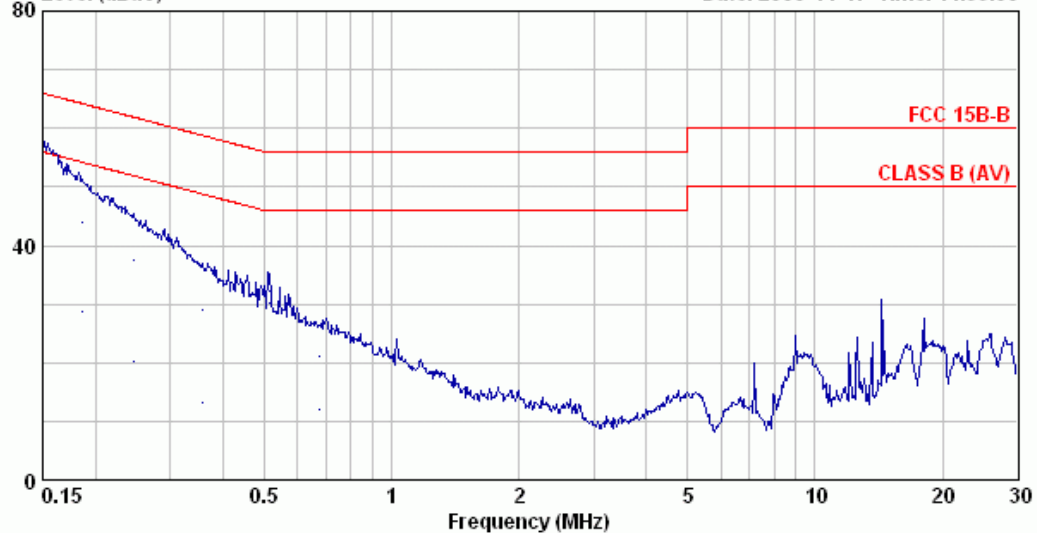
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	50.91	51.41	65.98	14.57	QP
2	0.150	0.30	0.20	36.59	37.09	55.98	18.89	AVERAGE
3	0.184	0.23	0.21	43.99	44.42	64.30	19.88	QP
4	0.184	0.23	0.21	29.02	29.45	54.30	24.85	AVERAGE
5	0.249	0.17	0.22	37.63	38.02	61.81	23.79	QP
6	0.249	0.17	0.22	20.09	20.48	51.81	31.33	AVERAGE
7	0.356	0.12	0.25	29.55	29.92	58.83	28.91	QP
8	0.356	0.12	0.25	13.18	13.55	48.83	35.28	AVERAGE
9	0.513	0.10	0.29	32.32	32.71	56.00	23.29	QP
10	0.513	0.10	0.29	30.38	30.77	46.00	15.23	AVERAGE
11	0.675	0.10	0.32	21.36	21.78	56.00	34.22	QP
12	0.675	0.10	0.32	12.01	12.43	46.00	33.57	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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Data: 24 File: C:\Program Files\ie3\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:39:00  
Level (dBuV)



Site : NO.4 Shielded Room Data : 24  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 1600\*1200 / 75Hz; 94KHz (D-SUB)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	50.70	51.20	65.98	14.78	QP
2	0.150	0.30	0.20	35.72	36.22	55.98	19.76	AVERAGE
3	0.185	0.23	0.21	43.49	43.92	64.25	20.33	QP
4	0.185	0.23	0.21	28.23	28.66	54.25	25.59	AVERAGE
5	0.245	0.17	0.22	37.17	37.56	61.92	24.35	QP
6	0.245	0.17	0.22	19.96	20.35	51.92	31.56	AVERAGE
7	0.359	0.12	0.25	28.57	28.94	58.74	29.81	QP
8	0.359	0.12	0.25	12.78	13.15	48.74	35.60	AVERAGE
9	0.515	0.10	0.29	31.72	32.11	56.00	23.89	QP
10	0.515	0.10	0.29	29.69	30.08	46.00	15.92	AVERAGE
11	0.677	0.10	0.32	20.82	21.24	56.00	34.76	QP
12	0.677	0.10	0.32	11.50	11.92	46.00	34.08	AVERAGE

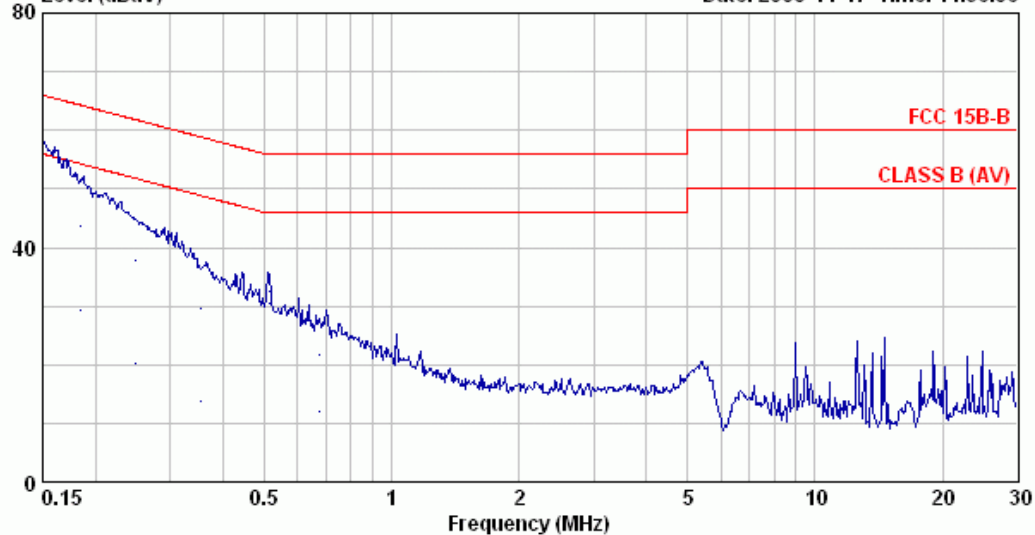
Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.  
2.If the average limit is met when using a quasi-peak detector  
,the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.





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Data: 23 File: C:\Program Files\ie3\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:36:56  
Level (dBuV)



Site : NO.4 Shielded Room Data : 23  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 1600\*1200 / 75Hz; 94KHz (D-SUB)

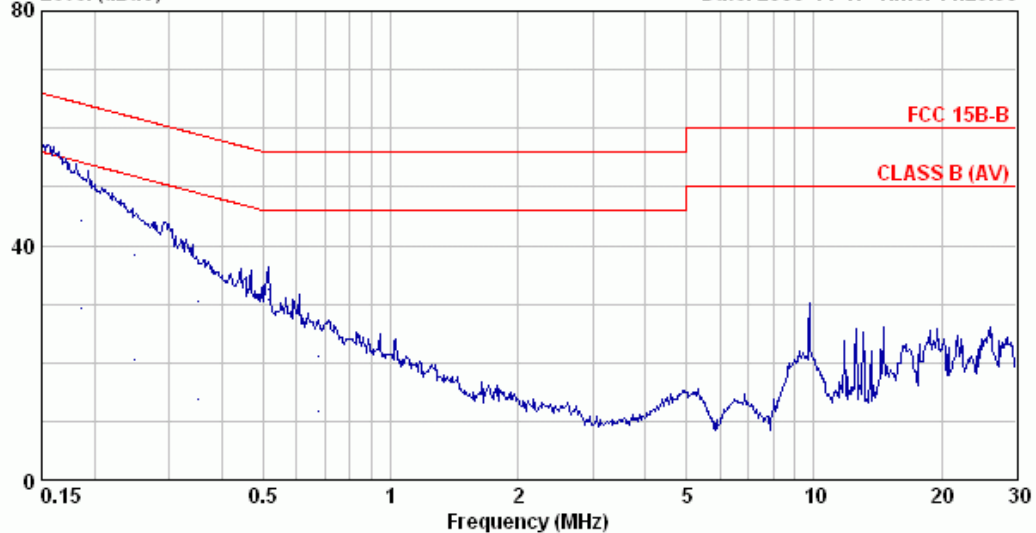
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	50.93	51.43	66.00	14.57	QP
2	0.150	0.30	0.20	36.71	37.21	56.00	18.79	AVERAGE
3	0.185	0.23	0.21	43.37	43.80	64.27	20.46	QP
4	0.185	0.23	0.21	28.95	29.38	54.27	24.88	AVERAGE
5	0.247	0.17	0.22	37.45	37.84	61.84	24.00	QP
6	0.247	0.17	0.22	19.88	20.27	51.84	31.57	AVERAGE
7	0.356	0.12	0.25	29.25	29.62	58.83	29.21	QP
8	0.356	0.12	0.25	13.34	13.71	48.83	35.12	AVERAGE
9	0.513	0.10	0.29	32.00	32.39	56.00	23.61	QP
10	0.513	0.10	0.29	30.08	30.47	46.00	15.53	AVERAGE
11	0.678	0.10	0.32	21.30	21.72	56.00	34.28	QP
12	0.678	0.10	0.32	11.61	12.03	46.00	33.97	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: 17 File: C:\Program Files\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:23:30  
Level (dBuV)



Site : NO.4 Shielded Room Data : 17  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 640\*480 / 60Hz;31KHz (DVI)

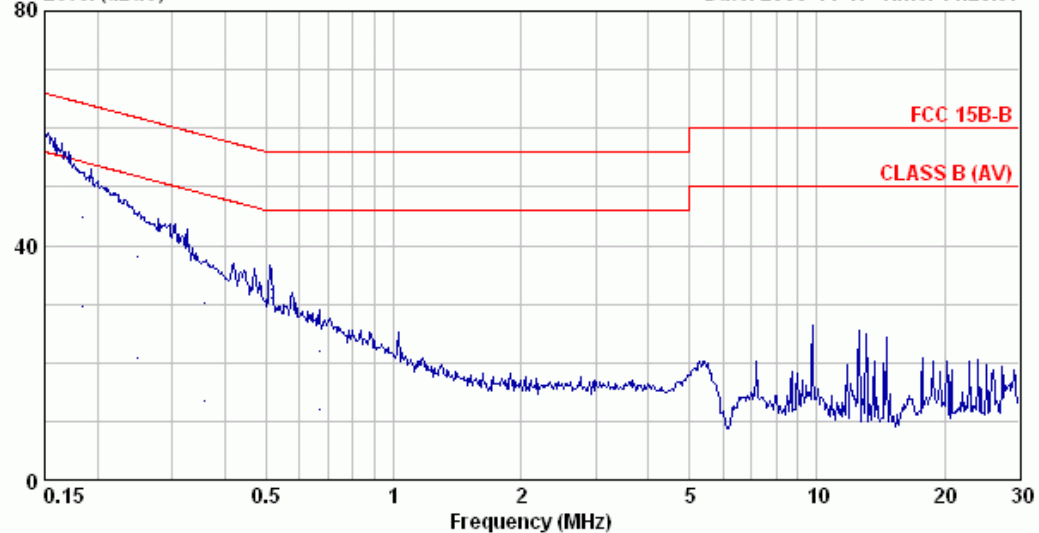
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	50.93	51.43	65.98	14.55	QP
2	0.150	0.30	0.20	35.92	36.42	55.98	19.56	AVERAGE
3	0.186	0.23	0.21	43.89	44.32	64.23	19.91	QP
4	0.186	0.23	0.21	28.79	29.22	54.23	25.01	AVERAGE
5	0.248	0.17	0.22	37.91	38.30	61.81	23.51	QP
6	0.248	0.17	0.22	20.02	20.41	51.81	31.40	AVERAGE
7	0.351	0.12	0.24	30.14	30.50	58.93	28.43	QP
8	0.351	0.12	0.24	13.40	13.76	48.93	35.17	AVERAGE
9	0.513	0.10	0.29	32.08	32.47	56.00	23.53	QP
10	0.513	0.10	0.29	30.24	30.63	46.00	15.37	AVERAGE
11	0.675	0.10	0.32	20.80	21.22	56.00	34.78	QP
12	0.675	0.10	0.32	11.41	11.83	46.00	34.17	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: 18 File: C:\Program Files\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:25:37



Site : NO.4 Shielded Room Data : 18  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 640\*480 / 60Hz;31KHz(DVI)

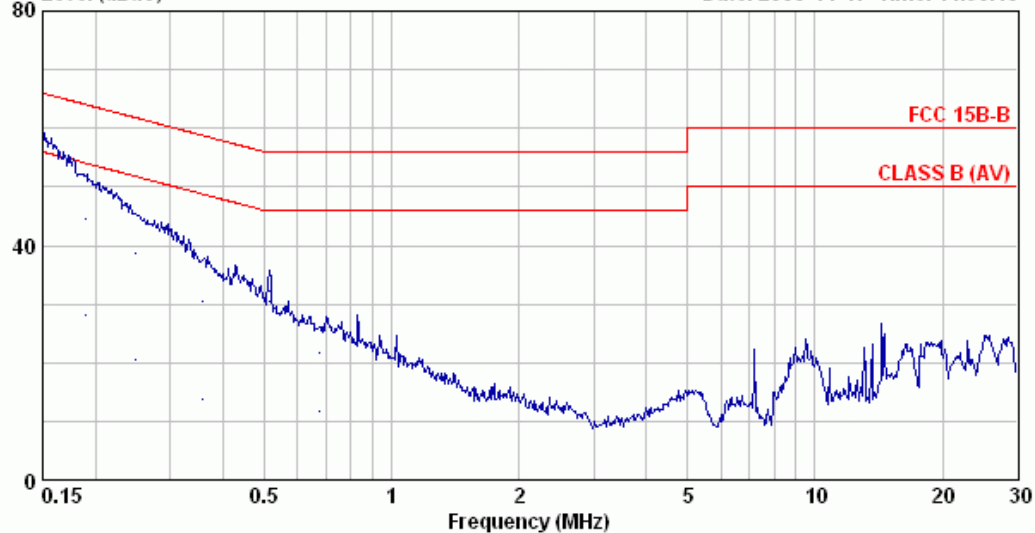
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	50.97	51.47	65.98	14.51	QP
2	0.150	0.30	0.20	36.48	36.98	55.98	19.00	AVERAGE
3	0.185	0.23	0.21	44.41	44.84	64.26	19.42	QP
4	0.185	0.23	0.21	29.19	29.62	54.26	24.64	AVERAGE
5	0.249	0.17	0.22	37.59	37.98	61.80	23.82	QP
6	0.249	0.17	0.22	20.47	20.86	51.80	30.94	AVERAGE
7	0.357	0.12	0.25	29.80	30.17	58.81	28.64	QP
8	0.357	0.12	0.25	13.16	13.53	48.81	35.28	AVERAGE
9	0.513	0.10	0.29	32.12	32.51	56.00	23.49	QP
10	0.513	0.10	0.29	30.56	30.95	46.00	15.05	AVERAGE
11	0.672	0.10	0.32	21.52	21.94	56.00	34.06	QP
12	0.672	0.10	0.32	11.68	12.10	46.00	33.90	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: 20 File: C:\Program Files\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:30:15  
Level (dBuV)



Site : NO.4 Shielded Room Data : 20  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 1280\*1024 / 75Hz;80KHz (DVI)

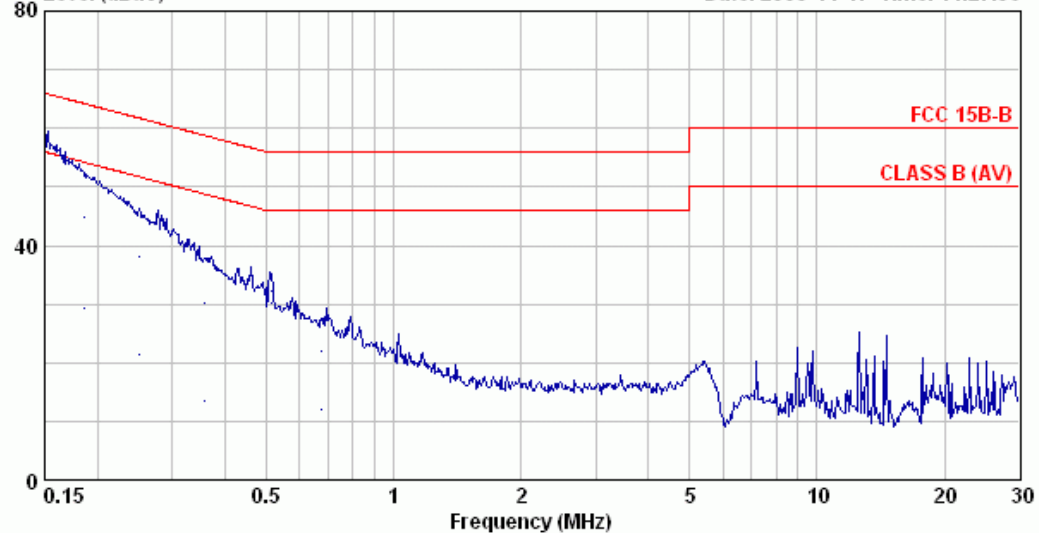
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	50.97	51.47	65.98	14.51	QP
2	0.150	0.30	0.20	35.81	36.31	55.98	19.67	AVERAGE
3	0.189	0.22	0.21	44.25	44.68	64.09	19.42	QP
4	0.189	0.22	0.21	27.70	28.13	54.09	25.97	AVERAGE
5	0.248	0.17	0.22	38.15	38.54	61.83	23.29	QP
6	0.248	0.17	0.22	20.01	20.40	51.83	31.43	AVERAGE
7	0.357	0.12	0.25	29.98	30.35	58.81	28.46	QP
8	0.357	0.12	0.25	13.37	13.74	48.81	35.07	AVERAGE
9	0.513	0.10	0.29	31.90	32.29	56.00	23.71	QP
10	0.513	0.10	0.29	30.23	30.62	46.00	15.38	AVERAGE
11	0.675	0.10	0.32	21.26	21.68	56.00	34.32	QP
12	0.675	0.10	0.32	11.24	11.66	46.00	34.34	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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Data: 19 File: C:\Program Files\ie3\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:27:56



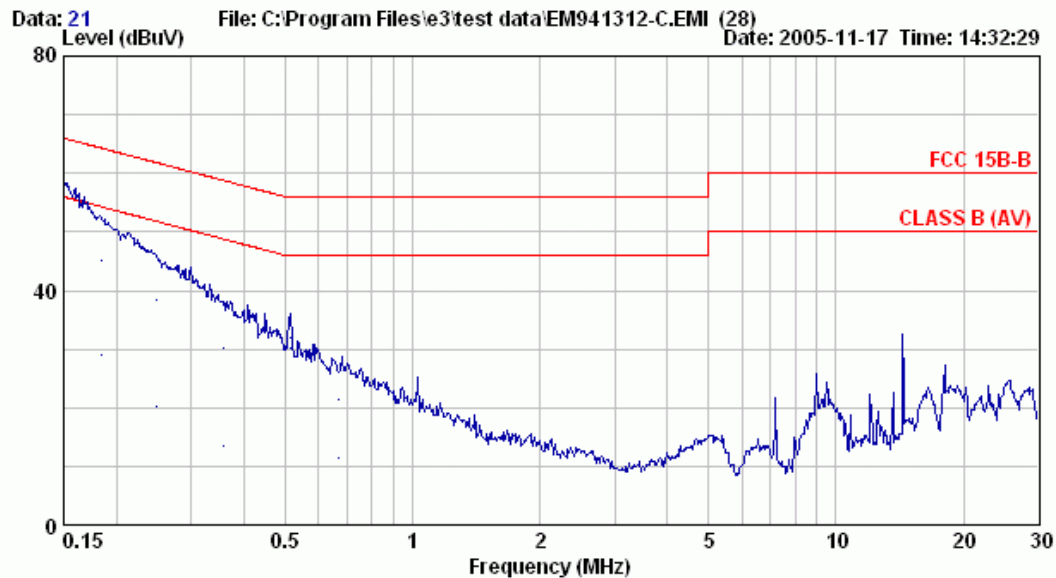
Site : NO.4 Shielded Room Data : 19  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 1280\*1024 / 75Hz;80KHz (DVI)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	51.45	51.95	66.00	14.05	QP
2	0.150	0.30	0.20	36.82	37.32	56.00	18.68	AVERAGE
3	0.187	0.22	0.21	44.29	44.72	64.19	19.47	QP
4	0.187	0.22	0.21	29.01	29.44	54.19	24.75	AVERAGE
5	0.251	0.17	0.22	37.67	38.06	61.71	23.65	QP
6	0.251	0.17	0.22	21.03	21.42	51.71	30.29	AVERAGE
7	0.357	0.12	0.25	29.84	30.21	58.80	28.59	QP
8	0.357	0.12	0.25	13.10	13.47	48.80	35.33	AVERAGE
9	0.516	0.10	0.29	31.80	32.19	56.00	23.81	QP
10	0.516	0.10	0.29	29.67	30.06	46.00	15.94	AVERAGE
11	0.672	0.10	0.32	21.62	22.04	56.00	33.96	QP
12	0.672	0.10	0.32	11.69	12.11	46.00	33.89	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 : 21  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 1600\*1200 / 60Hz;75KHz (DVI)

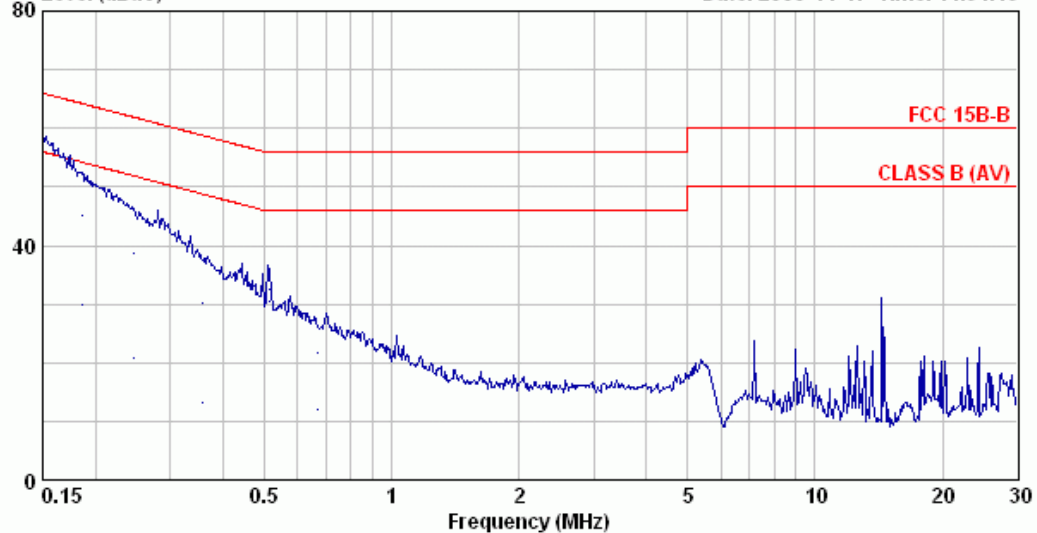
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	50.99	51.49	65.98	14.49	QP
2	0.150	0.30	0.20	35.56	36.06	55.98	19.92	AVERAGE
3	0.185	0.23	0.21	44.57	45.00	64.26	19.26	QP
4	0.185	0.23	0.21	28.57	29.00	54.26	25.26	AVERAGE
5	0.248	0.17	0.22	38.09	38.48	61.83	23.35	QP
6	0.248	0.17	0.22	19.75	20.14	51.83	31.69	AVERAGE
7	0.358	0.12	0.25	29.84	30.21	58.78	28.58	QP
8	0.358	0.12	0.25	13.02	13.39	48.78	35.40	AVERAGE
9	0.515	0.10	0.29	31.52	31.91	56.00	24.09	QP
10	0.515	0.10	0.29	29.73	30.12	46.00	15.88	AVERAGE
11	0.671	0.10	0.32	20.88	21.30	56.00	34.70	QP
12	0.671	0.10	0.32	11.00	11.42	46.00	34.58	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: C:\Program Files\ie3\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:34:43  
Level (dBuV)



Site : NO.4 Shielded Room Data : 22  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 1600\*1200 / 60Hz;75KHz (DVI)

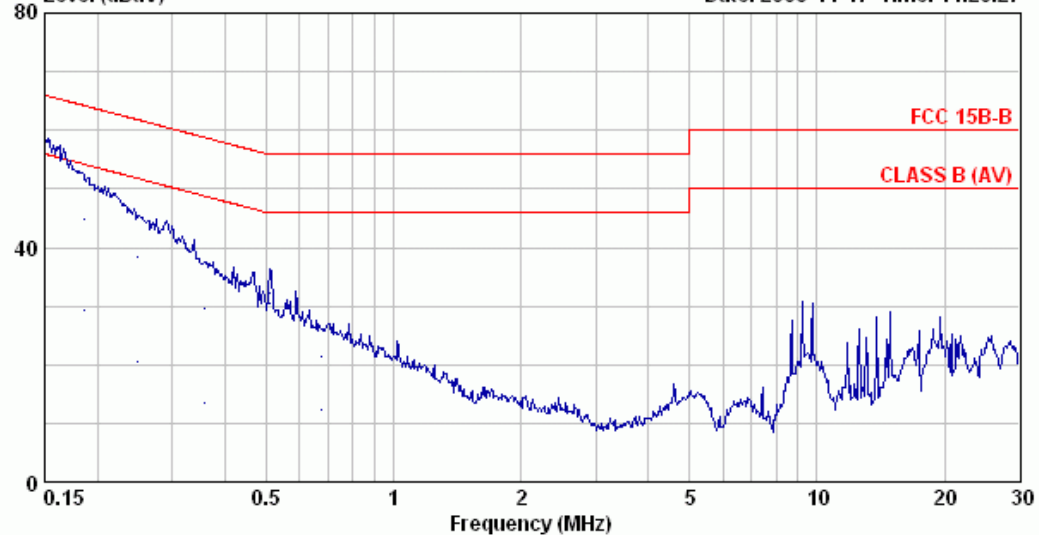
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	51.09	51.59	65.97	14.39	QP
2	0.150	0.30	0.20	36.54	37.04	55.97	18.94	AVERAGE
3	0.185	0.23	0.21	44.57	45.00	64.25	19.25	QP
4	0.185	0.23	0.21	29.34	29.77	54.25	24.48	AVERAGE
5	0.247	0.17	0.22	38.29	38.68	61.86	23.18	QP
6	0.247	0.17	0.22	20.46	20.85	51.86	31.01	AVERAGE
7	0.357	0.12	0.25	29.82	30.19	58.80	28.61	QP
8	0.357	0.12	0.25	12.87	13.24	48.80	35.56	AVERAGE
9	0.514	0.10	0.29	32.02	32.41	56.00	23.59	QP
10	0.514	0.10	0.29	29.98	30.37	46.00	15.63	AVERAGE
11	0.670	0.10	0.32	21.12	21.54	56.00	34.46	QP
12	0.670	0.10	0.32	11.64	12.06	46.00	33.94	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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Data: 16 File: C:\Program Files\ie3\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:20:27



Site : NO.4 Shielded Room Data : 16  
Condition : KNW-407 Phase : LINE  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 1200\*1600 / 60Hz (DVI) Rotate

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	51.25	51.75	65.99	14.24	QP
2	0.150	0.30	0.20	36.00	36.50	55.99	19.49	AVERAGE
3	0.186	0.23	0.21	44.51	44.94	64.24	19.29	QP
4	0.186	0.23	0.21	29.00	29.43	54.24	24.80	AVERAGE
5	0.249	0.17	0.22	38.13	38.52	61.80	23.28	QP
6	0.249	0.17	0.22	20.23	20.62	51.80	31.18	AVERAGE
7	0.359	0.12	0.25	29.13	29.50	58.75	29.26	QP
8	0.359	0.12	0.25	13.22	13.59	48.75	35.17	AVERAGE
9	0.512	0.10	0.29	31.84	32.23	56.00	23.77	QP
10	0.512	0.10	0.29	30.08	30.47	46.00	15.53	AVERAGE
11	0.675	0.10	0.32	20.84	21.26	56.00	34.74	QP
12	0.675	0.10	0.32	11.84	12.26	46.00	33.74	AVERAGE

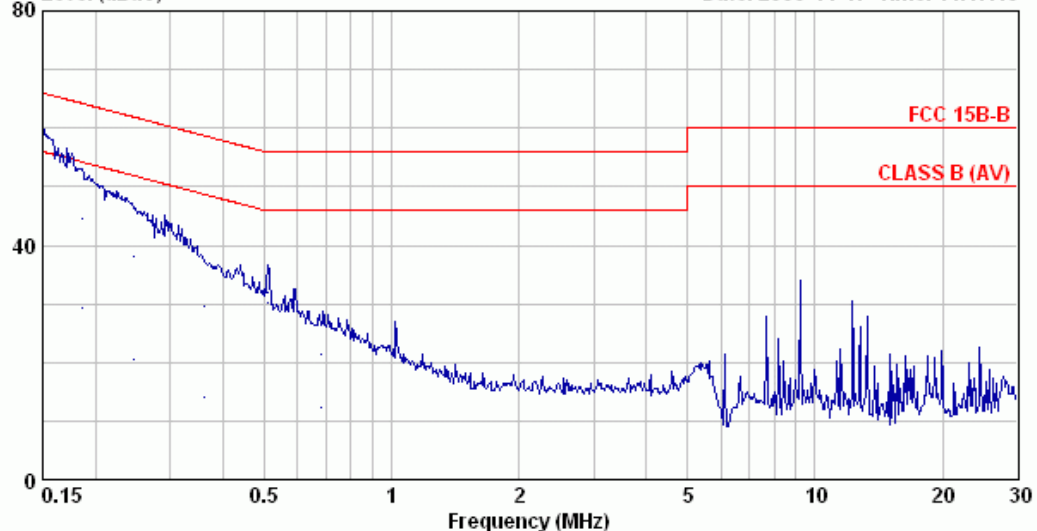
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





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Email:ttmc@ttmc.com.tw

Data: 15 File: C:\Program Files\test data\EM941312-C.EMI (28) Date: 2005-11-17 Time: 14:17:45  
Level (dBuV)



Site : NO.4 Shielded Room Data : 15  
Condition : KNW-407 Phase : NEUTRAL  
Limit : FCC 15B-B  
Env. / Ins. : 21°C / 60% ESH810 Engineer: Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac / 60Hz  
Test Mode : 1200\*1600 / 60Hz (DVI) Rotate

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.30	0.20	51.37	51.87	65.98	14.11	QP
2	0.150	0.30	0.20	36.97	37.47	55.98	18.51	AVERAGE
3	0.186	0.22	0.21	44.25	44.68	64.20	19.51	QP
4	0.186	0.22	0.21	28.80	29.23	54.20	24.96	AVERAGE
5	0.245	0.17	0.22	37.83	38.22	61.91	23.69	QP
6	0.245	0.17	0.22	20.03	20.42	51.91	31.49	AVERAGE
7	0.362	0.11	0.25	29.25	29.61	58.69	29.08	QP
8	0.362	0.11	0.25	13.64	14.00	48.69	34.69	AVERAGE
9	0.511	0.10	0.29	31.54	31.93	56.00	24.07	QP
10	0.511	0.10	0.29	29.67	30.06	46.00	15.94	AVERAGE
11	0.681	0.10	0.32	21.02	21.44	56.00	34.56	QP
12	0.681	0.10	0.32	11.93	12.35	46.00	33.65	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.

### 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 (Simple Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000133	Jul. 06, 05'	Jul. 05, 06'
2.	Amplifier	HP	8447D	2944A06669	Aug. 03, 05'	Aug. 02, 06'
3.	Bilog Antenna	Schaffner	CBL6112B	2818	May 17, 05'	May 16, 06'

##### 3.1.2. For 30MHz~1000MHz Frequency (No. 3 Open Area Test Site)

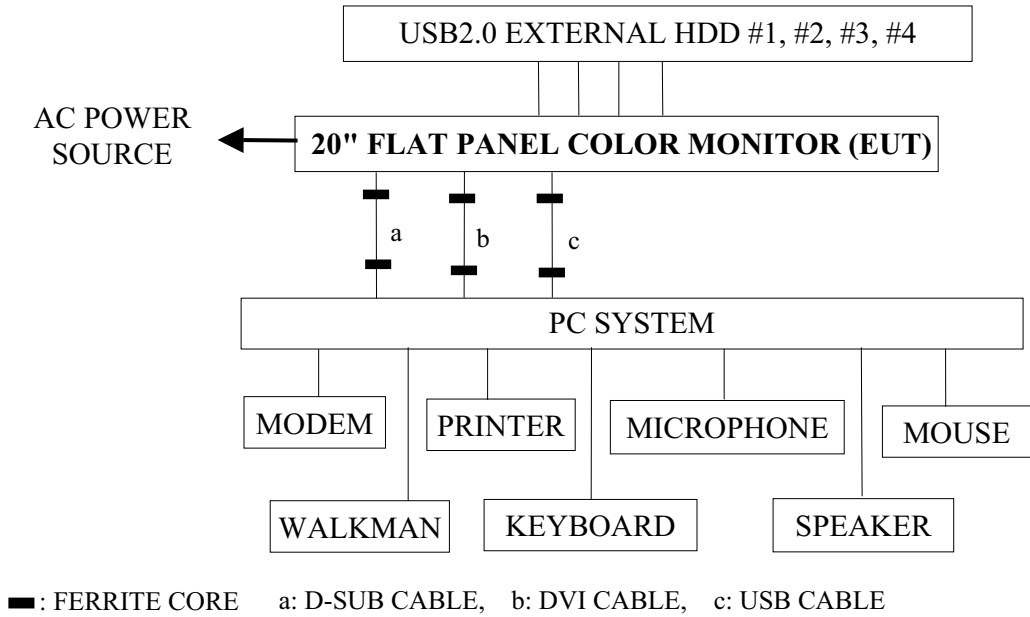
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8590L	3710A01838	N/A	N/A
2.	Test Receiver	R & S	ESVS10	845165/002	Apr. 22, 05'	Apr. 21, 06'
3.	Amprifer	HP	8447D	2727A05737	N/A	N/A
4.	Biconical Antenna	Chase	VBA6106A	1227	Nov.14, 05'	Nov.13, 06'
5.	Log Periodic Antenna	Chase	UPA6109	1027	Nov.14, 05'	Nov.13, 06'

##### 3.1.3. For above 1GHz Frequency (For No. 3 Open Area Test Site)

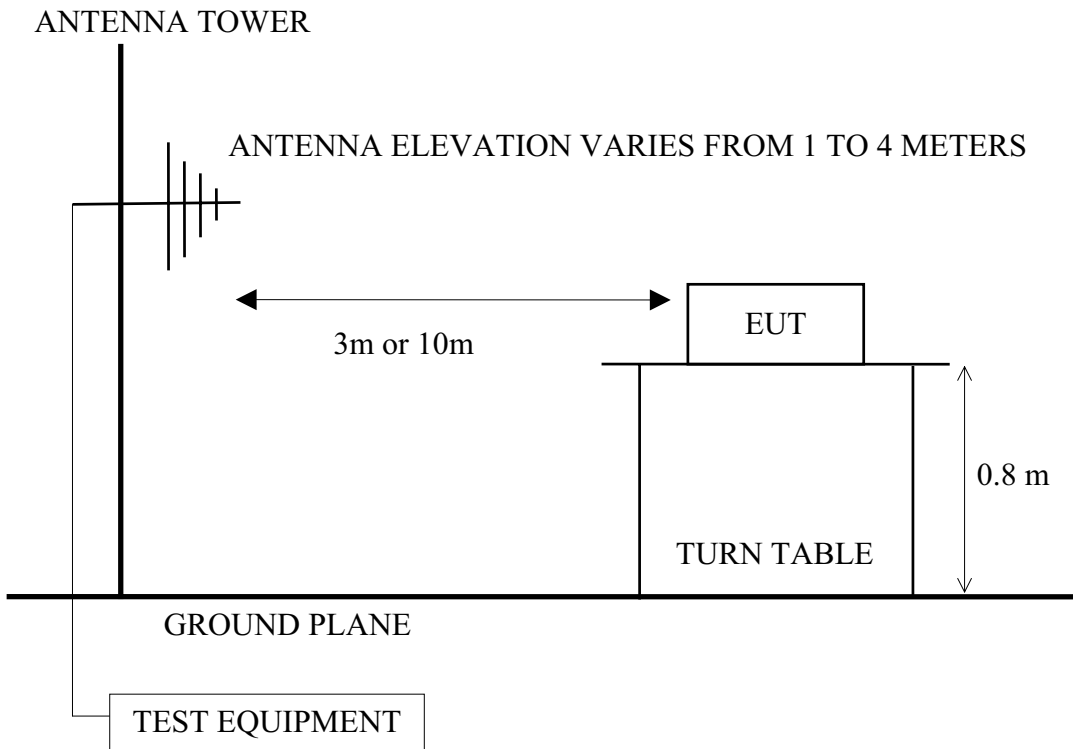
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000132	Jun. 04, 05'	Jun. 03, 06'
2.	Amplifier	HP	8449B	3008A00529	Jan. 14, 05'	Jan. 13, 06'
3.	Horn Antenna	EMCO	3115	9609-4927	Jul. 08, 05'	Jul. 07, 06'

### 3.2. Block Diagram of Test Setup

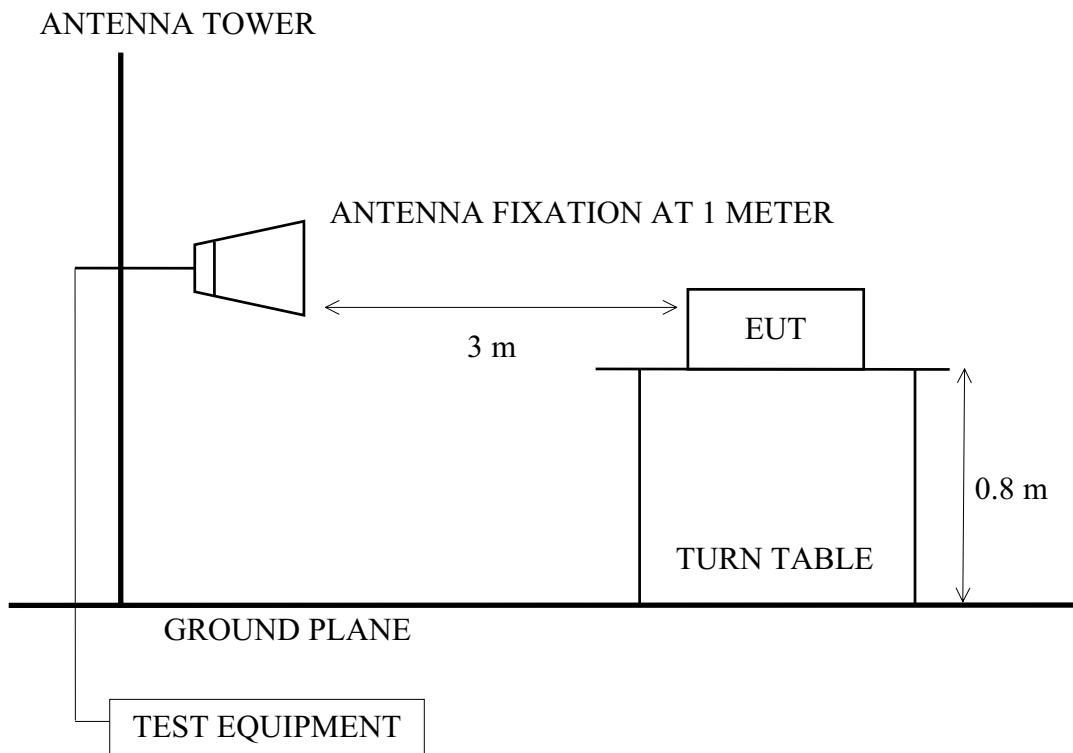
#### 3.2.1. Block Diagram of connection between EUT and simulators



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



### 3.2.3. Open Area Test Site Setup Diagram (3m) for 1-2GHz



### 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)
Above 1GHz	3	74.0 (Peak)
Above 1GHz	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. Therefore, a FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.109 (a), (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 supporting system were same as those used in conducted measurement. Please refer to section 2.4.

### 3.5. Operating Condition of EUT

Same as conducted measurement which is 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 10m at open area test site and 3m at simple anechoic chamber:

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 to 10 meters (or 3 meters at simple anechoic chamber) away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna 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 and CISPR 22 on radiated measurement.

The bandwidth of the R&S Test Receiver ESVS10 was set at 120kHz. The frequency range from 30MHz to 1000MHz was pre-scanned with 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 to 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 from 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 E7405A was set at 1MHz.

The frequency range from 1GHz to 2GHz was checked with Peak & Average detector.

### 3.7. Radiated Emission Measurement Results

#### **PASSED.**

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

#### **For 30MHz~1000MHz frequency range:**

EUT with following test modes were measured at Simple Anechoic chamber and all the scanning waveform were listed in section 3.7.1.

EUT: 20" Flat Panel Color Monitor M/N: 200P7

Test Date: Nov. 17, 2005 Temperature: 20°C Humidity: 59%

The details of test modes are as follows:

Mode	Input Port	Resolution/ Frequency	Panel Position	Reference Test Data No.	
				Horizontal	Vertical
1.	D-Sub	640*480/60Hz, 31kHz	0°/Horizontal	# 5	# 6
2.		1280*1024/85Hz, 91kHz	0°/Horizontal	# 4	# 3
3.		1600*1200/75Hz, 94kHz	0°/Horizontal	# 1	# 2
5.	DVI	640*480/60Hz, 31kHz	0°/Horizontal	# 8	# 7
6.		1280*1024/75Hz, 80kHz	0°/Horizontal	# 9	# 10
7.		<b>1600*1200/60Hz, 75kHz</b>	<b>0°/Horizontal</b>	<b># 12</b>	<b># 11</b>
8.		1200*1600/60Hz	90°/Vertical	# 13	# 14

Finally, selected the worst test modes [**Mode 7**] were measured at No. 3 open area test site and all the test results are listed in 3.7.2.

Test Date: Nov. 16, 2005 Temperature: 22°C Humidity: 63%

The details of test modes are as follows:

Mode	Input Port	Resolution/ Frequency	Panel Position	Reference Test Data No.	
				Horizontal	Vertical
<b>7.*</b>	<b>DVI</b>	<b>1600*1200/60Hz, 75kHz</b>	<b>0°/Horizontal</b>	<b># 3</b>	<b># 4</b>

(\*mode for maximum detected emission)

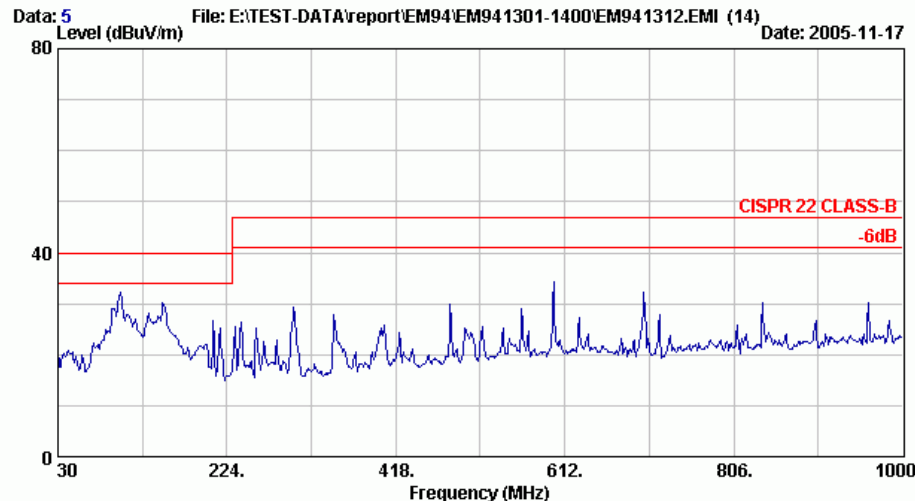
#### **For 1GHz~2GHz frequency range:**

The EUT was measured with the spectrum analyzer from 1GHz to 2GHz, and found the noise from EUT was lower than ambient, therefore there is no data was attached, Please refer to section 5.4. for the photos of testing setup.

### 3.7.1. 30-1000MHz Frequency Range Radiated Emission Measurement Results at Simple Anechoic Chamber



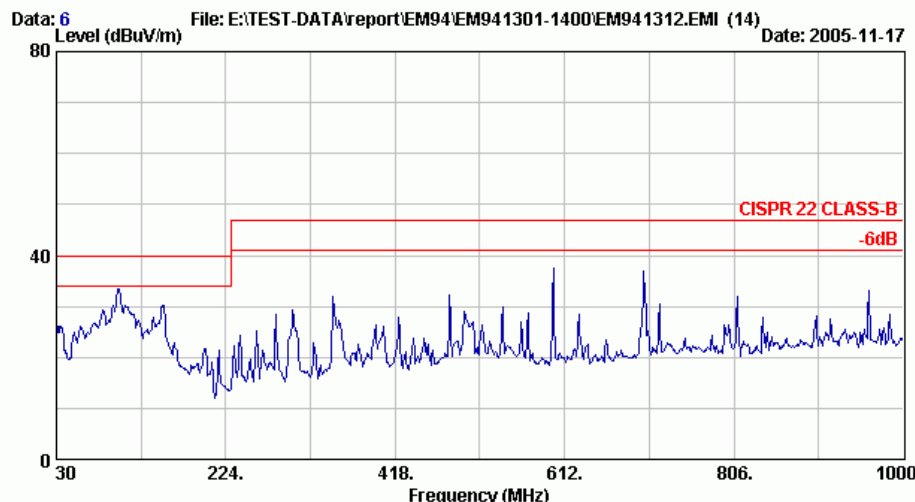
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Email:ttemc@ttemc.com.tw



Site no. : AUDIX Mini Chamber Data no. : 5  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz;31KHz (D-SUB)



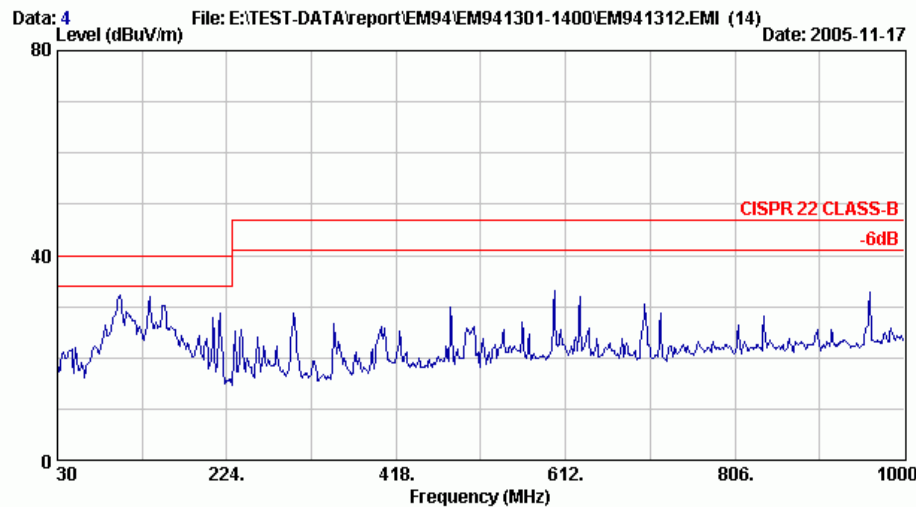
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Site no. : AUDIX Mini Chamber Data no. : 6  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz;31KHz (D-SUB)



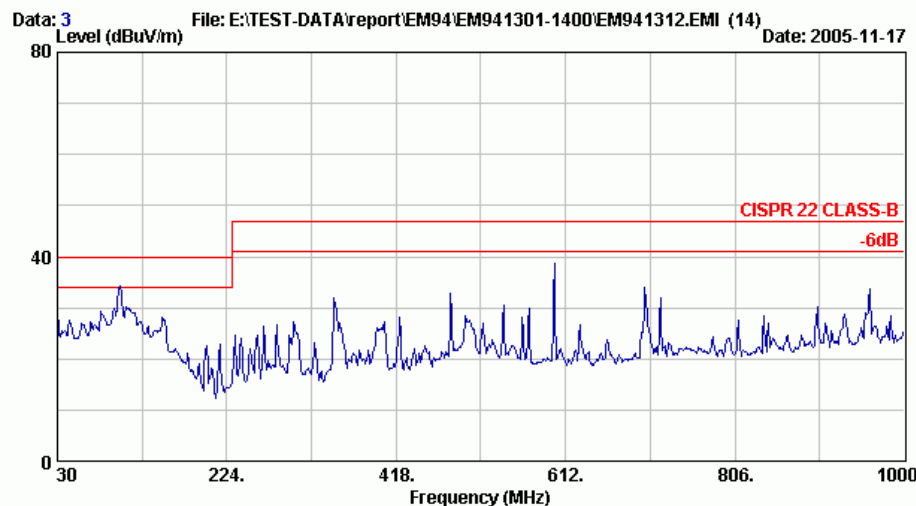
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Site no. : AUDIX Mini Chamber Data no. : 4  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405 Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 85Hz;91KHz (D-SUB)



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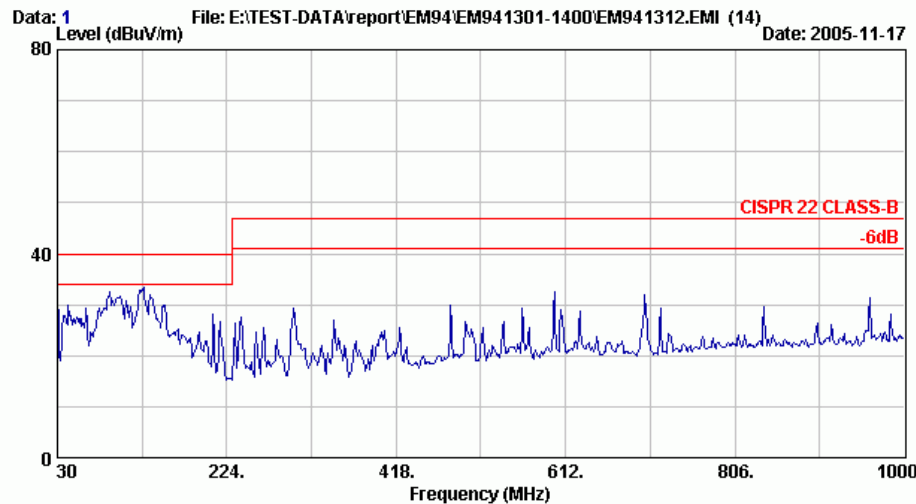


Site no. : AUDIX Mini Chamber Data no. : 3  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405 Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 85Hz;91KHz (D-SUB)





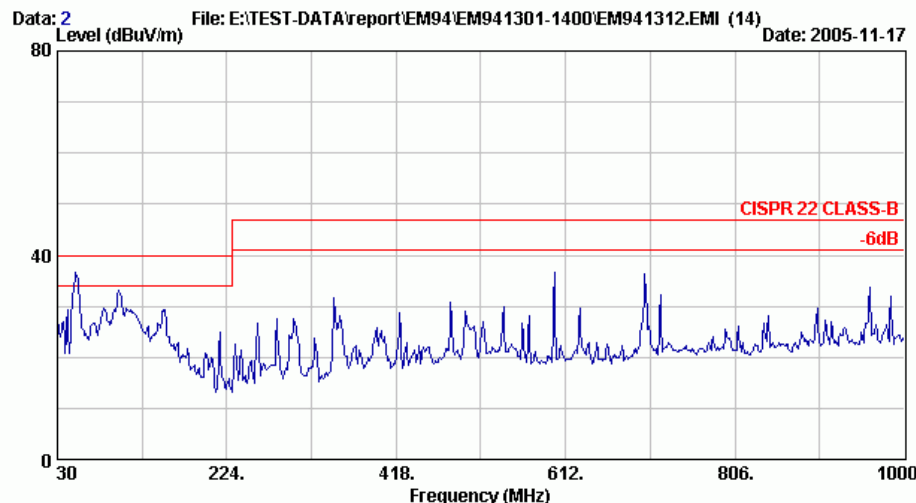
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Email:ttemc@ttemc.com.tw



Site no. : AUDIX Mini Chamber Data no. : 1  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405A Engineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 1600\*1200 / 75Hz;94KHz (D-SUB)



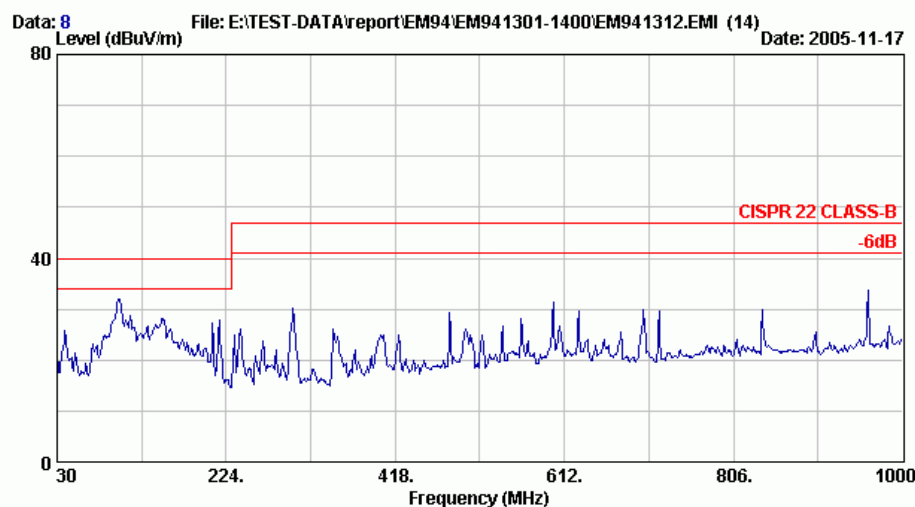
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Site no. : AUDIX Mini Chamber Data no. : 2  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405A Engineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 1600\*1200 / 75Hz;94KHz (D-SUB)



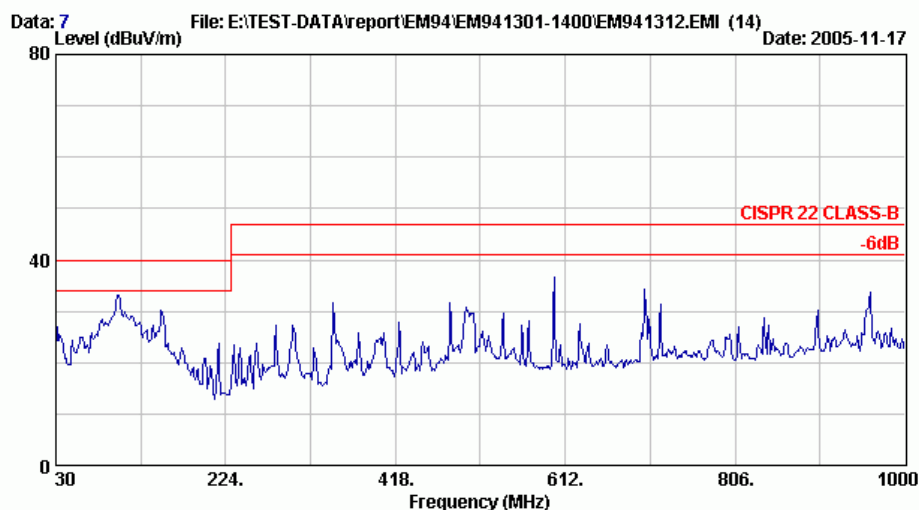
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Site no. : AUDIX Mini Chamber Data no. : 8  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405 Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz;31KHz (DVI)



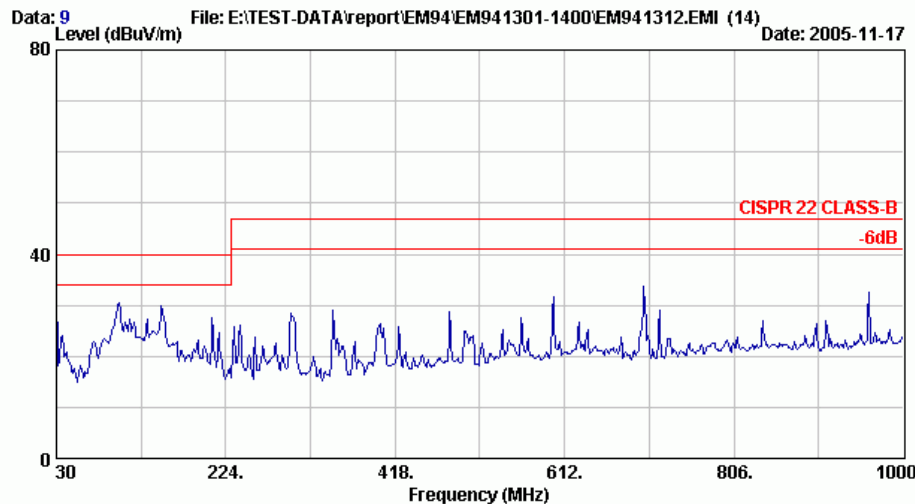
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Site no. : AUDIX Mini Chamber Data no. : 7  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405 Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 640\*480 / 60Hz;31KHz (DVI)



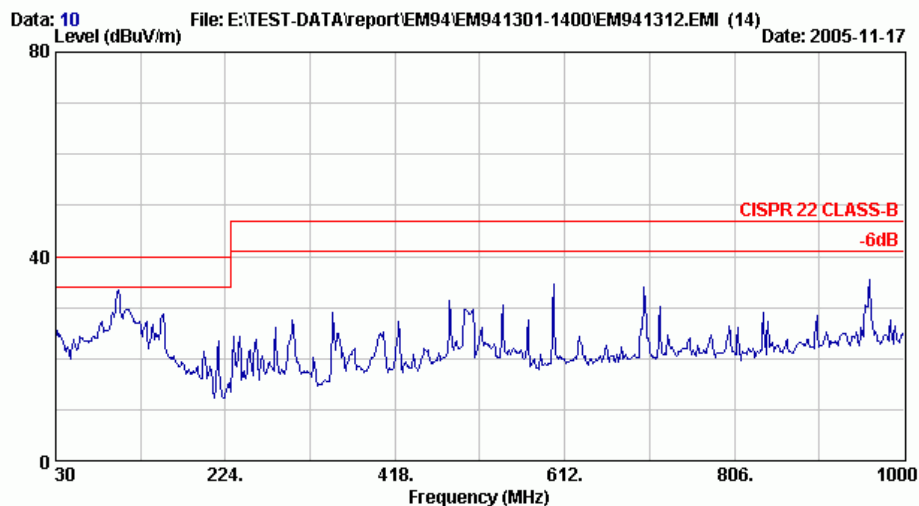
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Site no. : AUDIX Mini Chamber Data no. : 9  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405 Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz;80KHz (DVI)



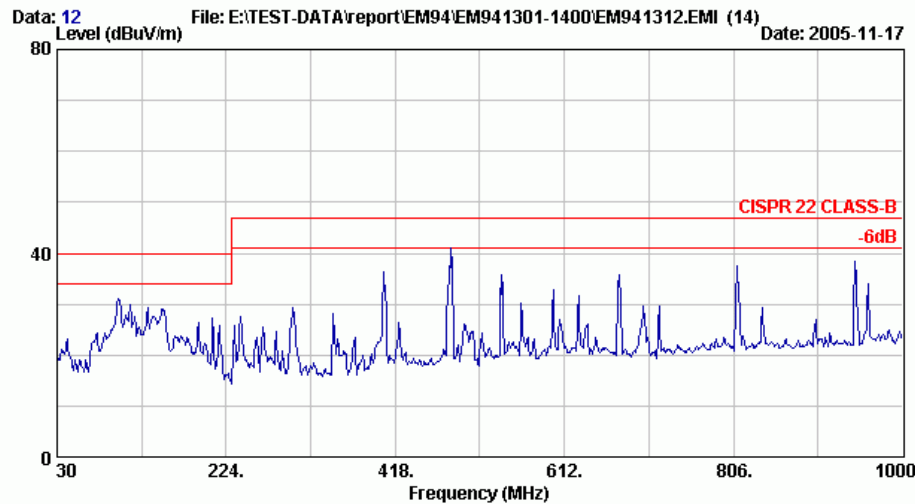
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Site no. : AUDIX Mini Chamber Data no. : 10  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405 Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 1280\*1024 / 75Hz;80KHz (DVI)



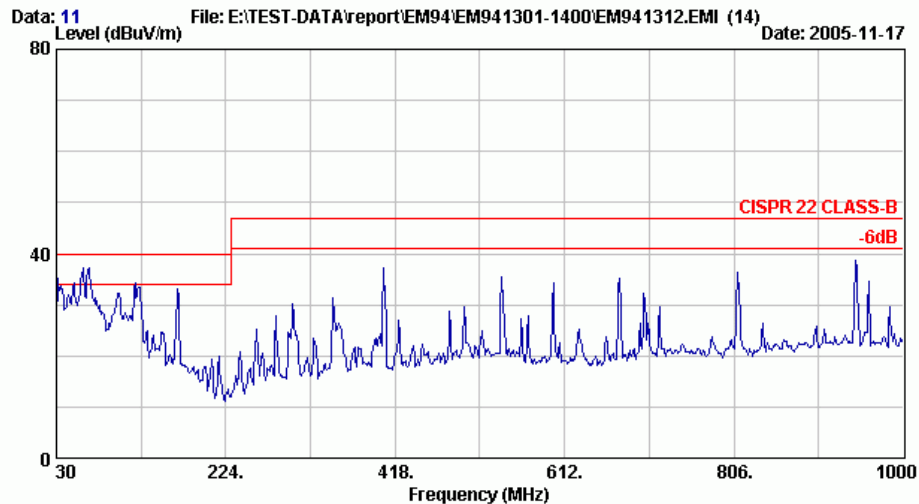
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Site no. : AUDIX Mini Chamber Data no. : 12  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405 Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 1600\*1200 / 60Hz;75KHz (DVI)



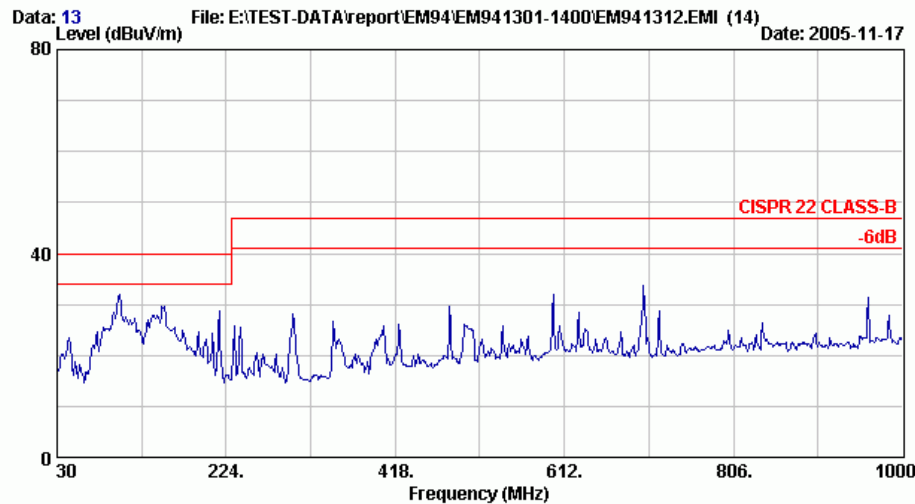
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Email:ttemc@ttemc.com.tw



Site no. : AUDIX Mini Chamber Data no. : 11  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405 Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 1600\*1200 / 60Hz;75KHz (DVI)



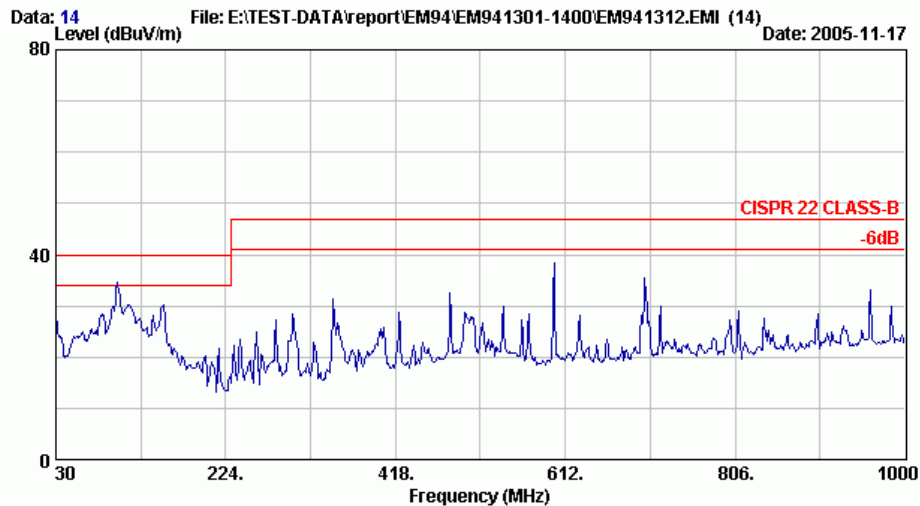
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Email:ttemc@ttemc.com.tw



Site no. : AUDIX Mini Chamber Data no. : 13  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405 Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 1200\*1600 / 60Hz (DVI) Rotate



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Email:ttemc@ttemc.com.tw

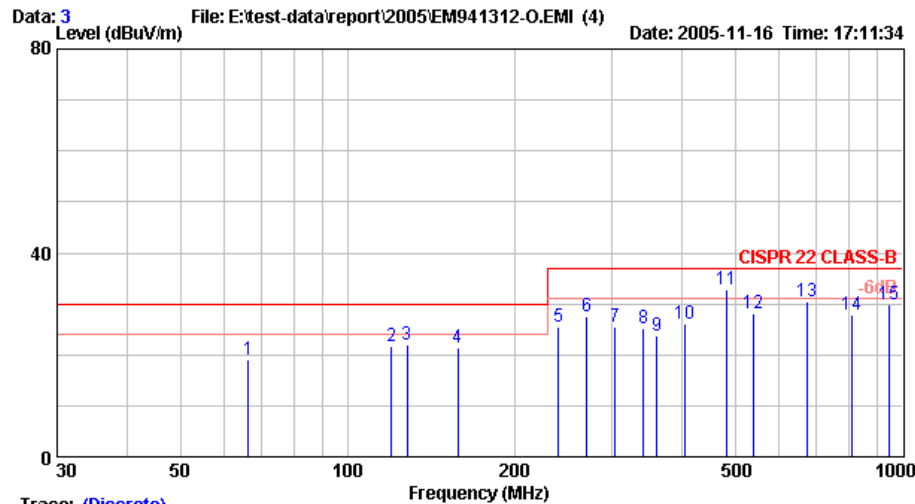


Site no. : AUDIX Mini Chamber Data no. : 14  
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 20°C / 59% Agilent E7405 Angineer : Tony Chen  
EUT : 20" Flat Panel Color Monitor M/N:200P7  
Power Rating : 120Vac/60Hz  
Test Mode : 1200\*1600 / 60Hz (DVI) Rotate

## 3.7.2. 30-1000MHz Frequency Range Radiated Emission Measurement Results at No. 3 Open Area Test Site



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Web:www.ttemc.com



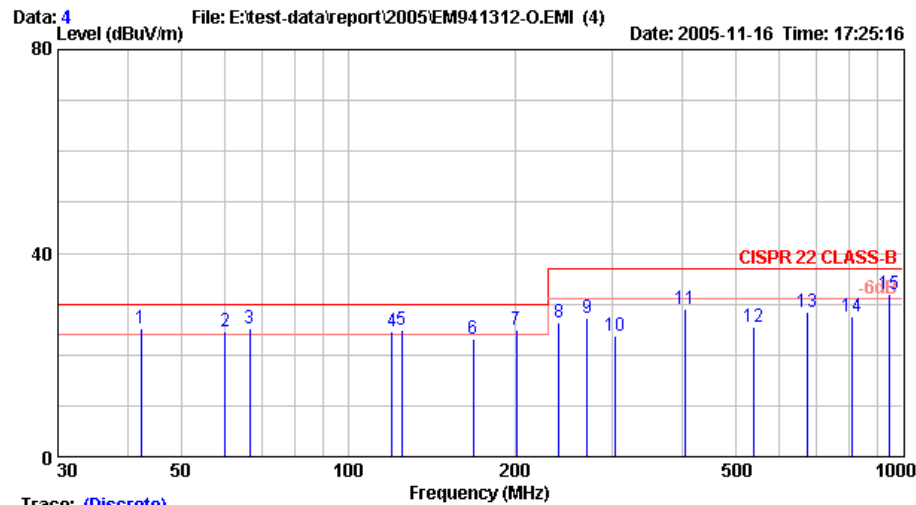
Site no. : NO.3 Open Site Data no. : 3  
Dis. / Ant. : 10m 6106A/6109 (0104) Ant. pol. : HORIZONTAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 22°C/63% ESVS 10 Engineer : ALEX HUANG  
EUT : 20" Flat Panel Color Monitor  
Power Rating : 120Vac / 60Hz M/N:200P7  
Test Mode : 1600\*1200/60Hz ; 75KHz (DVI)

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB $\mu$ V)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
1	66.388	11.96	1.60	5.54	19.10	30.00	10.90	
2	120.000	18.82	2.20	0.80	21.82	30.00	8.18	
3	128.230	19.39	2.40	0.05	21.84	30.00	8.16	
4	157.960	20.07	2.40	-1.21	21.26	30.00	8.74	
5	240.001	21.92	3.20	0.40	25.52	37.00	11.48	
6	270.019	23.18	3.40	0.82	27.40	37.00	9.60	
7	303.675	13.60	3.60	8.17	25.37	37.00	11.63	
8	341.841	14.70	3.80	6.66	25.16	37.00	11.84	
9	361.232	14.90	4.00	4.89	23.79	37.00	13.21	
10	405.007	16.40	4.20	5.53	26.13	37.00	10.87	
11	482.370	17.84	4.80	10.08	32.72	37.00	4.28	*
12	540.010	19.28	5.20	3.78	28.26	37.00	8.74	
13	675.010	21.25	5.60	3.56	30.41	37.00	6.59	
14	810.009	22.72	6.40	-1.25	27.87	37.00	9.13	
15	945.009	24.48	7.20	-1.83	29.85	37.00	7.15	

- 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 482.370MHz with corrected signal level of 32.72dB $\mu$ V/m (limit is 37.0dB $\mu$ V/m) when the antenna was at horizontal polarization and was at 1m high and the turn table was at 155°.
  4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



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Site no. : NO.3 Open Site Data no. : 4  
Dis. / Ant. : 10m 6106A/6109 (0104) Ant. pol. : VERTICAL  
Limit : CISPR 22 CLASS-B  
Env. / Ins. : 22°C/63% ESVS 10 Engineer : ALEX HUANG  
EUT : 20" Flat Panel Color Monitor  
Power Rating : 120Vac / 60Hz M/N:200P7  
Test Mode : 1600\*1200/60Hz ; 75KHz (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	42.340	18.47	1.20	5.60	25.27	30.00	4.73	
2	60.023	13.49	1.40	9.62	24.51	30.00	5.49	
3	66.500	13.46	1.60	10.24	25.30	30.00	4.70	*
4	120.015	19.27	2.20	3.22	24.69	30.00	5.31	
5	124.810	19.09	2.20	3.67	24.96	30.00	5.04	
6	168.000	19.90	2.60	0.62	23.12	30.00	6.88	
7	201.170	21.71	2.80	0.26	24.77	30.00	5.23	
8	240.032	20.66	3.20	2.48	26.34	37.00	10.66	
9	270.005	23.00	3.40	0.88	27.28	37.00	9.72	
10	303.649	13.91	3.60	6.13	23.64	37.00	13.36	
11	405.006	16.82	4.20	7.94	28.96	37.00	8.04	
12	540.026	18.96	5.20	1.40	25.56	37.00	11.44	
13	675.029	21.34	5.60	1.53	28.47	37.00	8.53	
14	810.026	22.61	6.40	-1.40	27.61	37.00	9.39	
15	945.029	24.68	7.20	-0.04	31.84	37.00	5.16	

- 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 66.500MHz with corrected signal level of 25.30dB $\mu$ V/m (limit is 30.0dB $\mu$ V/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 90°.
  4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

#### **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

Test Mode: D-Sub or DVI Input, Panel Position: 0°/Horizontal



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

Test Mode: DVI Input, Panel Position: 90°/Vertical



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

## 5.2. Photos of Radiated Measurement at Simple Anechoic Chamber (30-1000MHz)

Test Mode: D-Sub or DVI Input, Panel Position: 0°/Horizontal



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



Test Mode: DVI Input, Panel Position: 90°/Vertical



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

### 5.3. Photos of Radiated Measurement at Open Area Test Site (30-1000MHz)

Test Mode: DVI Input, Panel Position: 0°/Horizontal

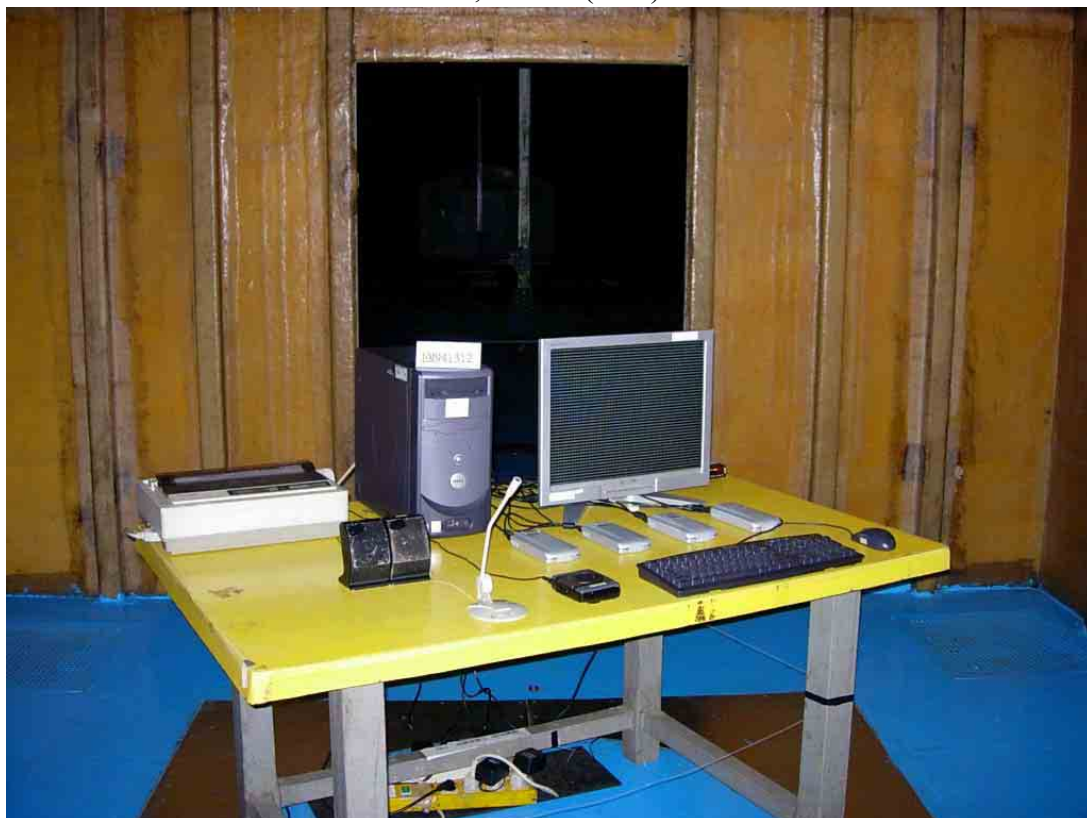


FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

Test Mode : 1600\*1200/60Hz, 75kHz (DVI)



SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION

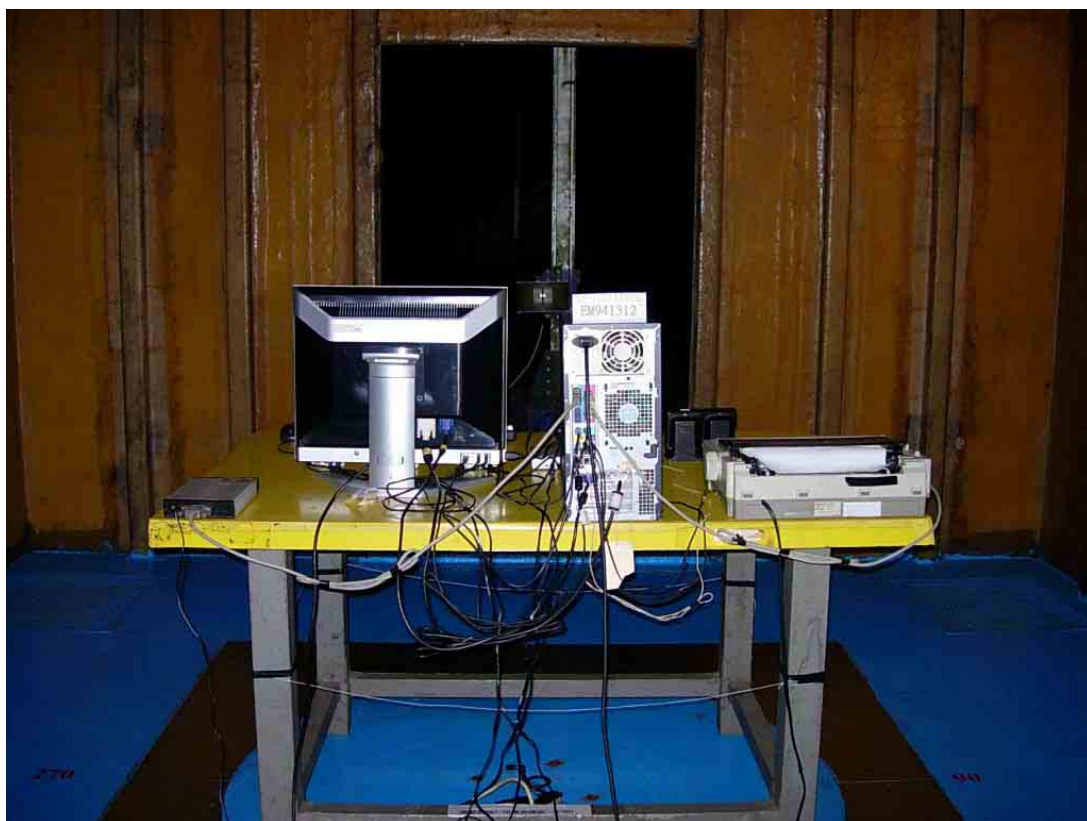


#### 5.4. Photos of Radiated Measurement at Open Area Test Site (1-2GHz)

Test Mode: D-Sub or DVI Input, Panel Position: 0°/Horizontal



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

Test Mode: DVI Input, Panel Position: 90°/Vertical



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



