

TEST REPORT FOR CERTIFICATION
Class II Permissive Change
On Behalf for
Philips Electronics Industries (Taiwan) Ltd.
Display Color Monitor
Model No.: (1)202P70 (2)202P73 (3)202P75
FCC ID. : A3KM107
Brand : PHILIPS

Prepared for : Philips Electronics Industries (Taiwan) Ltd.
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Chungli, Taoyuan, Taiwan, R.O.C.

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APPENDIX I (RADIATED EMISSION TEST DATA AT SIMPLE ANECHOIC CHAMBER)	

1. GENERAL INFORMATION

1.1. Description of Device

Description : Display Color Monitor

Model Number : (1)202P70 (2)202P73 (3)202P75

Above all models have the same PCB and circuit, the details of differences are follows as:

Model No.	Color	
	Front Cabinet	Back Cover
202P70	White Color	White Color
202P73	Silver Color	Black Color
202P75	Black Color	Black Color

The Model Number 202P70 is representative selected in the test and included in this report.

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 : 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, PROC

Factory #3 : Philips Monitors Manufacturing Hungary
Free Trade Zone Limited Liability Company
(PMM LLC) H-9700 Szombathely, Puskas
tivadar u. 10., HUNGARY

CRT	:	Samsung, M/N M51QEV991X001
Scanning Frequency	:	Horizontal: 30kHz-130kHz Vertical: 50Hz-160Hz
Max. Resolution	:	2048*1536
D-Sub Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
BNC Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m (3Pin)
Date of Receipt of Sample	:	Mar. 15, 2005
Date of Test	:	Mar. 16 ~ 17, 2005

Remark:

This EUT is an upgrade version of original FCC ID A3KM107. The different are as follows:

- (1) CRT changed from Mitsubishi to Samsung.
- (2) Slight circuit modifications and slight PCB re-layout to fulfill this new CRT implement.

1.2. Tested Supporting System Details

1.2.1. PC SYSTEM

Model Name	:	AS6400-I73-H17B
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI ID	:	3882B216
Manufacturer	:	ACER
VGA Card	:	Matrox G450
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. KEYBOARD

Model Number	:	7932
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI ID	:	3862A470
Manufacturer	:	BTC
Data Cable	:	Shielded, Undetachable, 1.8m Bonded a ferrite core

1.2.3. MOUSE

Model Number	:	M-U48A
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI ID	:	4882A177
Manufacturer	:	ACER
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.4. DOT MATRIX PRINTER

Model Number	:	KX-P2135
Serial Number	:	8DMCNC02144
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. MICROPHONE

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

1.2.6. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08496
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.7. EARPHONE

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

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 & Facility : **No. 5 Shielded Room &
 (C5/AC/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.
 February 10, 2003 Re-File on
 Federal Communication Commission
 Registration Number: 90996

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	$\pm 1.73\text{dB}$
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 = $k_{uc}(y)$

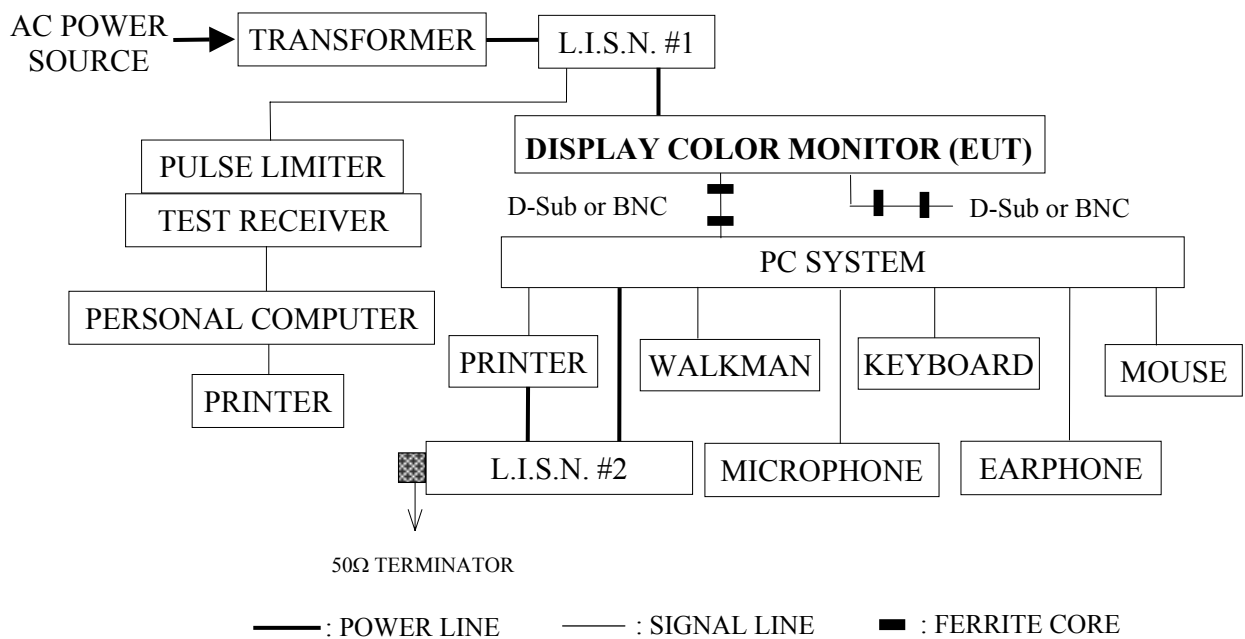
2. POWERLINE CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment were used during the power line conducted measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	100039	Jun. 21, 04'	Jun. 20, 05'
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-1539-2	May 11, 04'	May 10, 05'
3.	L.I.S.N. #2	Kyoritsu	KNW-407	8-1539-3	Nov. 18, 04'	Nov. 17, 05'
4.	Pulse Limiter	R & S	ESH3-Z2	100040	Apr. 29, 04'	Apr. 28, 05'

2.2. Block Diagram of Test Setup



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

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

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. Display Color Monitor (EUT)

Model Number	:	202P70
Brand	:	PHILIPS
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
CRT	:	Samsung, M/N M51QEV991X001
Scanning Frequency	:	Horizontal: 30kHz-130kHz Vertical: 50Hz-160Hz
Max. Resolution	:	2048*1536
D-Sub Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
BNC Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m (3Pin)

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 running the self-test program "TESTPA 1.8" sent character "H" to the Display Color Monitor (EUT) through VGA card and the screen displayed and filled with pattern "H" by EUT's resolution via the D-Sub or BNC input.

2.5.4. 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 ESCS30 was set at 9kHz.

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

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

2.7. Powerline Conducted Emission Measurement Results

PASSED. (All the emissions not reported below are too low against the prescribed limits. Because the QP values have met both Q.P & Average limits, it's unnecessary to measure with Average detector.)

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

EUT: Display Color Monitor Model: 202P70

Test Date: Mar. 17, 2005 Temperature: 20°C Humidity: 69%

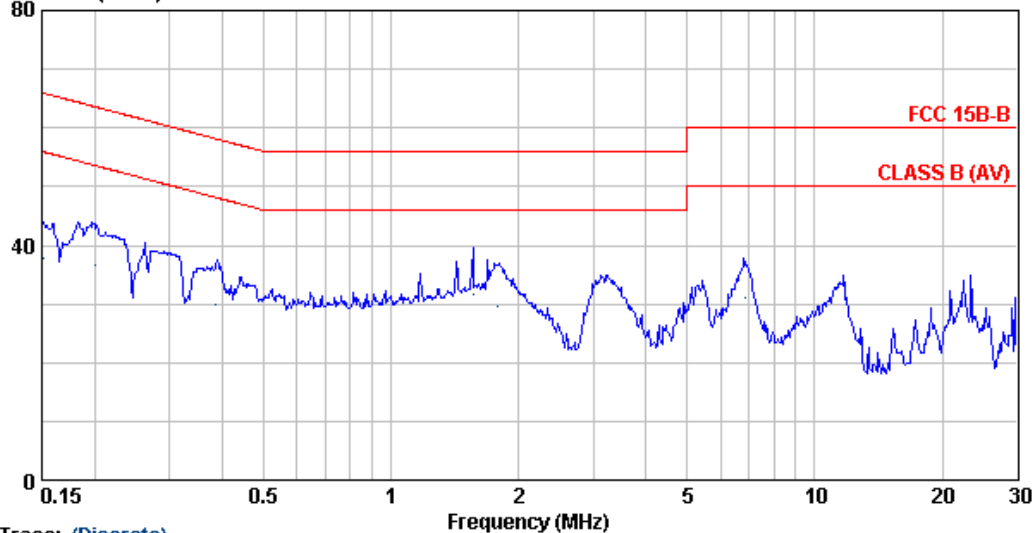
The details of test modes are as follows:

Mode	Input	Resolution/ Frequency	Reference Test Data No.	
			Line	Neutral
1.	D-Sub	800*600/60Hz, 38kHz	# 24	# 23
2.		1280*1024/75Hz, 80kHz	# 21	# 22
3.		1600*1200/85Hz, 106.5kHz	# 20	# 19
4.		1920*1440/85Hz, 128.5kHz	# 17	# 18
5.		2048*1536/80Hz, 130kHz	# 16	# 15
6.	BNC	2048*1536/80Hz, 130kHz	# 13	# 14



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Data: 24 File: E:\test-data\report\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:16:33



Trace: (Discrete)

Site : NO.5 Shielded room Data : 24
 Condition : KNW-407 (8-1539-2) Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 800*600/60Hz ; 38KHz (D-SUB)
 S/N:TY0405050

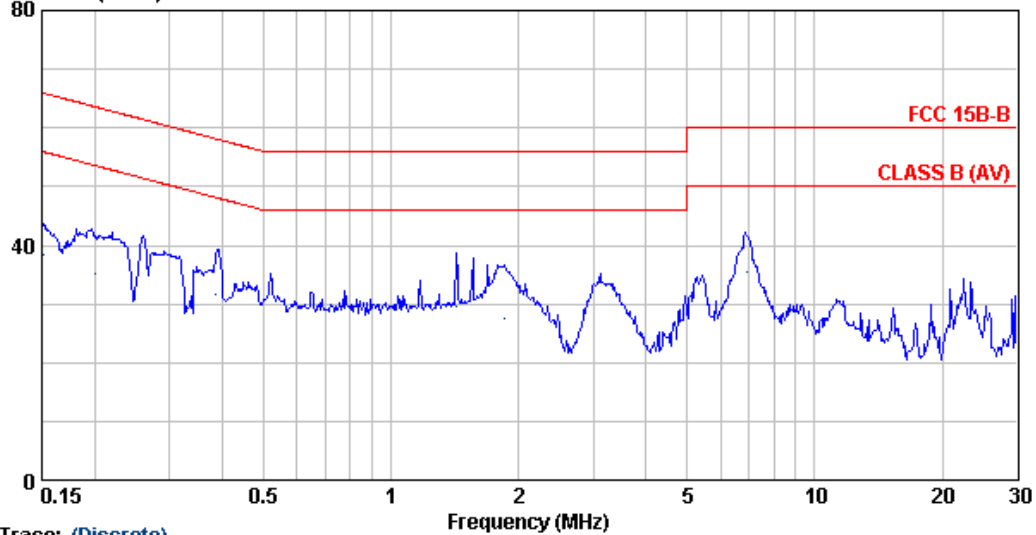
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.30	0.20	37.26	37.76	65.91	28.15	QP
2	0.200	0.10	0.20	36.31	36.61	63.62	27.01	QP
3	0.387	0.10	0.20	29.57	29.87	58.12	28.25	QP
4	1.560	0.10	0.40	31.15	31.65	56.00	24.35	QP
5	1.790	0.10	0.40	29.17	29.67	56.00	26.33	QP
6	6.841	0.15	0.60	30.40	31.15	60.00	28.85	QP

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\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:15:13



Trace: (Discrete)

Site : NO.5 Shielded room Data : 23
 Condition : KNW-407 (8-1539-2) Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 800*600/60Hz ; 38KHz (D-SUB)
 S/N:TY0405050

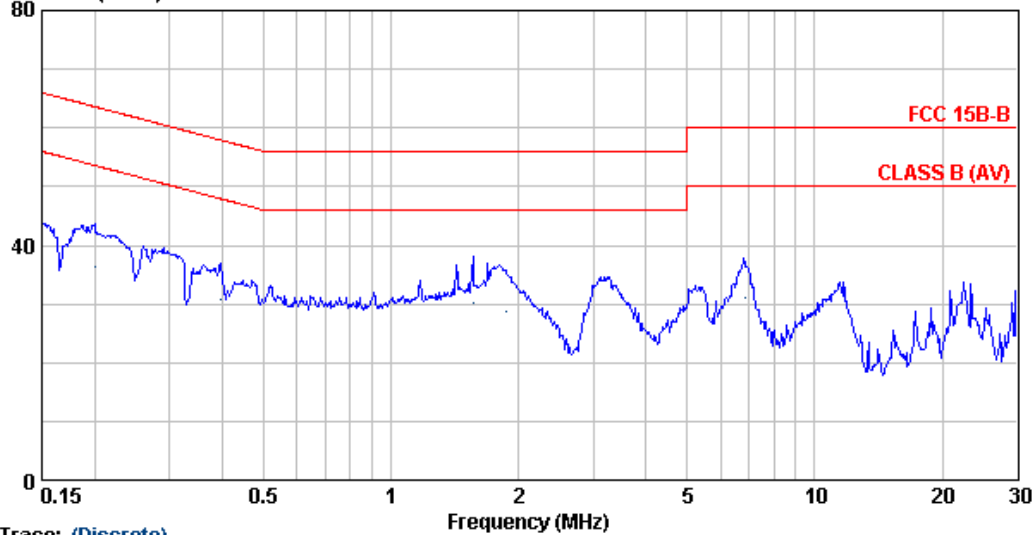
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.20	0.20	37.93	38.33	65.91	27.58	QP
2	0.200	0.10	0.20	34.93	35.23	63.62	28.39	QP
3	0.387	0.10	0.20	31.43	31.73	58.12	26.39	QP
4	1.426	0.10	0.40	29.11	29.61	56.00	26.39	QP
5	1.858	0.10	0.40	27.15	27.65	56.00	28.35	QP
6	6.914	0.15	0.60	34.81	35.56	60.00	24.44	QP

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: 21 File: E:\test-data\report\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:12:17



Trace: (Discrete)

Site : NO.5 Shielded room Data : 21
 Condition : KNW-407 (8-1539-2) Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 1280*1024/75Hz ; 80KHz (D-SUB)
 S/N:TY0405050

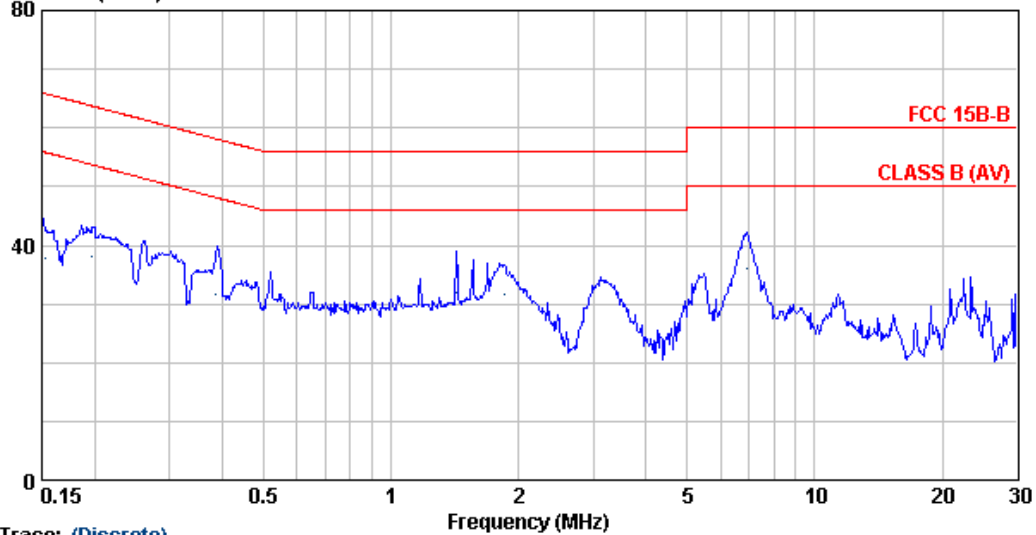
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.150	0.30	0.20	36.77	37.27	66.00	28.73	QP
2	0.201	0.10	0.20	35.97	36.27	63.58	27.31	QP
3	0.396	0.10	0.20	30.55	30.85	57.95	27.10	QP
4	1.560	0.10	0.40	29.71	30.21	56.00	25.79	QP
5	1.868	0.10	0.40	28.11	28.61	56.00	27.39	QP
6	6.841	0.15	0.60	30.35	31.09	60.00	28.91	QP

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\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:13:31



Trace: (Discrete)

Site : NO.5 Shielded room Data : 22
 Condition : KNW-407 (8-1539-2) Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 1280*1024/75Hz ; 80KHz (D-SUB)
 S/N:TY0405050

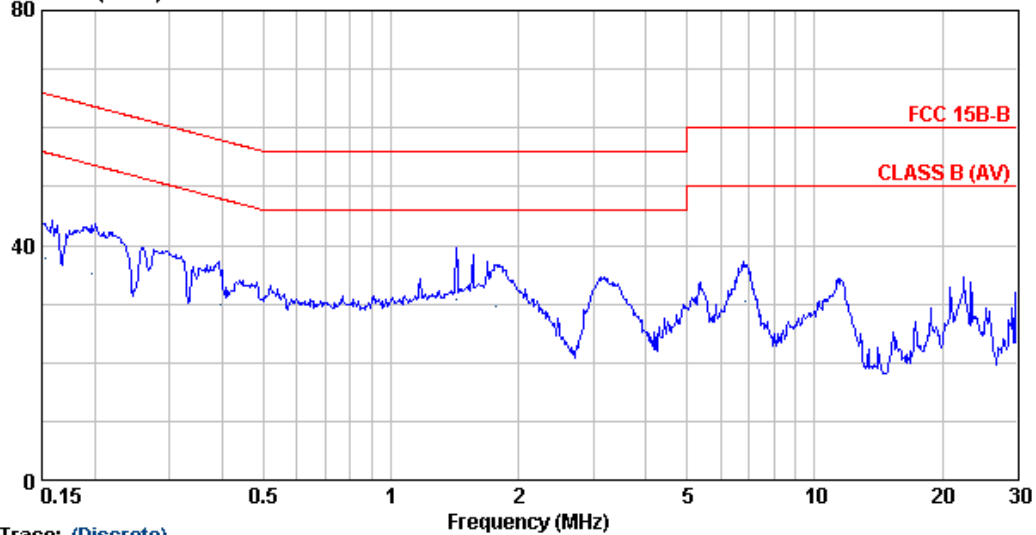
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.20	0.20	37.41	37.81	65.87	28.06	QP
2	0.198	0.10	0.20	37.72	38.02	63.71	25.69	QP
3	0.387	0.10	0.20	31.31	31.61	58.12	26.51	QP
4	1.426	0.10	0.40	31.49	31.99	56.00	24.01	QP
5	1.858	0.10	0.40	31.13	31.63	56.00	24.37	QP
6	6.914	0.15	0.60	35.40	36.15	60.00	23.85	QP

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: E:\test-data\report\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:10:48



Trace: (Discrete)

Site : NO.5 Shielded room Data : 20
 Condition : KNW-407 (8-1539-2) Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 1600*1200/85Hz ; 106.5KHz (D-SUB)
 S/N: TY0405050

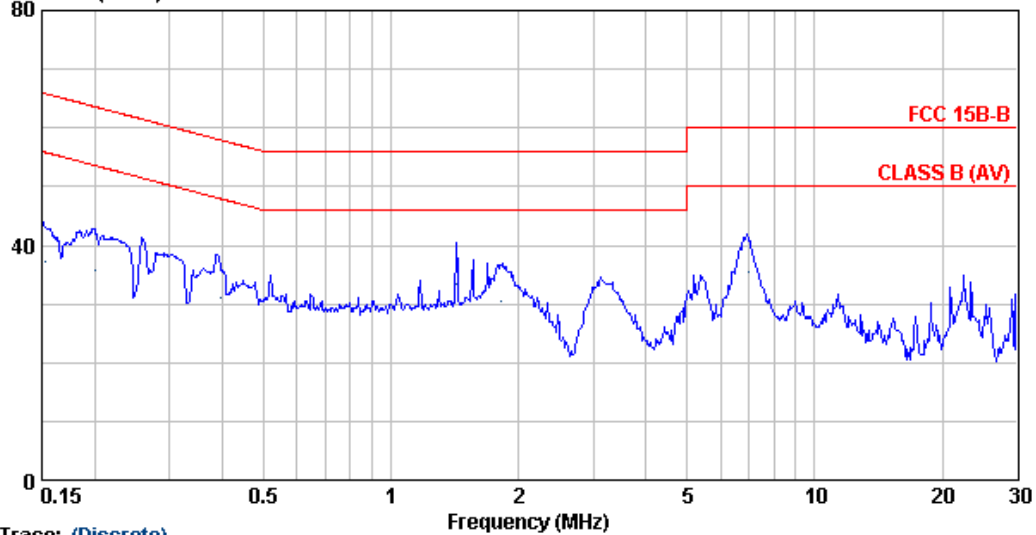
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.30	0.20	37.16	37.66	65.87	28.20	QP
2	0.198	0.10	0.20	34.81	35.11	63.71	28.60	QP
3	0.396	0.10	0.20	29.54	29.84	57.95	28.11	QP
4	1.426	0.10	0.40	30.15	30.65	56.00	25.35	QP
5	1.762	0.10	0.40	29.17	29.67	56.00	26.33	QP
6	6.841	0.15	0.60	29.70	30.45	60.00	29.55	QP

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: E:\test-data\report\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:09:31



Trace: (Discrete)

Site : NO.5 Shielded room Data : 19
 Condition : KNW-407 (8-1539-2) Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 1600*1200/85Hz ; 106.5KHz (D-SUB)
 S/N: TY0405050

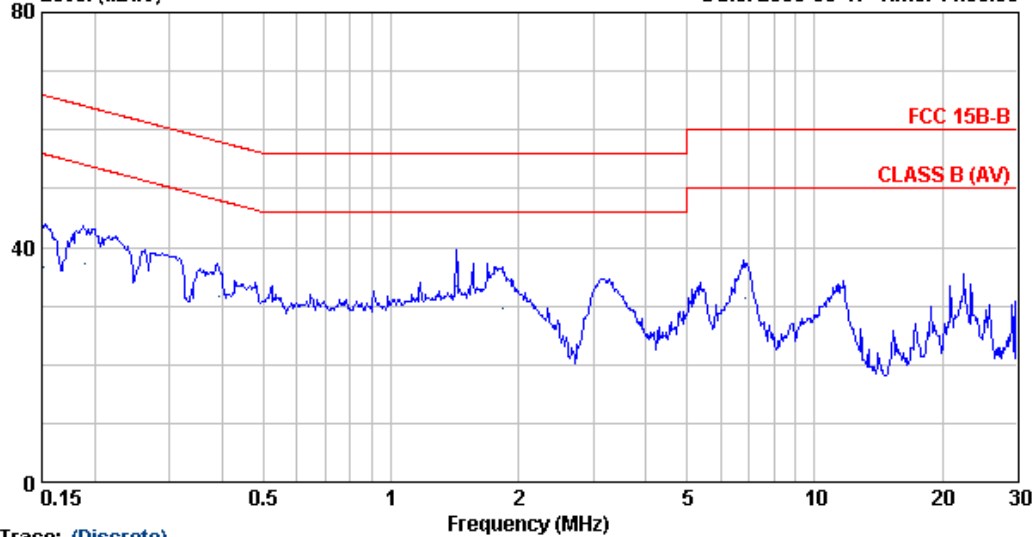
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.20	0.20	36.69	37.09	65.87	28.78	QP
2	0.200	0.10	0.20	35.36	35.66	63.62	27.96	QP
3	0.396	0.10	0.20	30.90	31.20	57.95	26.75	QP
4	1.426	0.10	0.40	32.90	33.40	56.00	22.60	QP
5	1.819	0.10	0.40	30.04	30.54	56.00	25.46	QP
6	6.951	0.15	0.60	34.62	35.37	60.00	24.63	QP

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\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:06:35



Trace: (Discrete)

Site : NO.5 Shielded room Data : 17
 Condition : KNW-407 (8-1539-2) Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 1920*1440/85Hz ; 128.5KHz (D-SUB)
 S/N:TY0405050

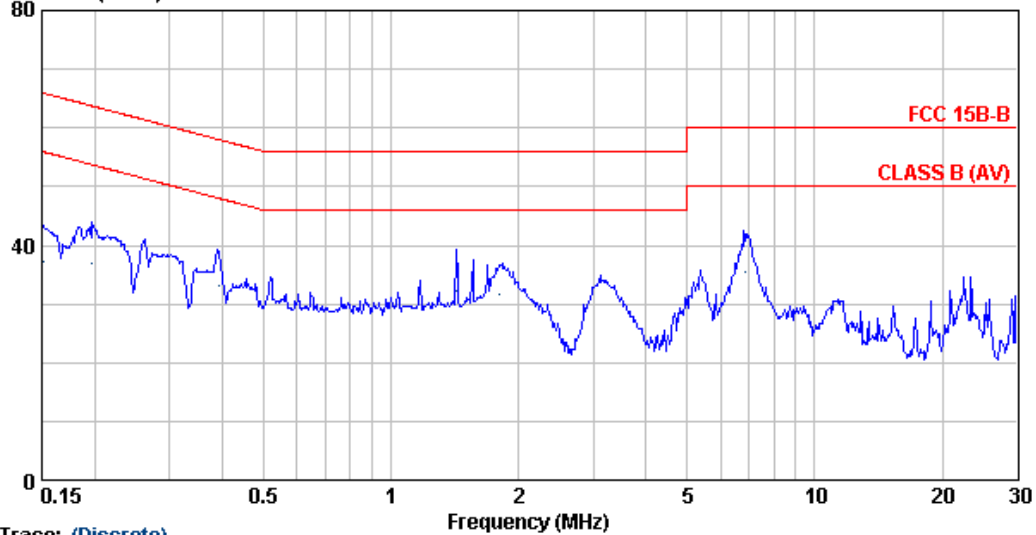
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.30	0.20	36.18	36.68	65.91	29.23	QP
2	0.189	0.20	0.20	36.80	37.20	64.06	26.86	QP
3	0.391	0.10	0.20	31.26	31.56	58.03	26.48	QP
4	1.426	0.10	0.40	32.99	33.49	56.00	22.51	QP
5	1.839	0.10	0.40	29.14	29.64	56.00	26.36	QP
6	6.841	0.15	0.60	30.54	31.29	60.00	28.71	QP

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: E:\test-data\report\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:07:56



Trace: (Discrete)

Site : NO.5 Shielded room Data : 18
 Condition : KNW-407 (8-1539-2) Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 1920*1440/85Hz ; 128.5KHz (D-SUB)
 S/N:TY0405050

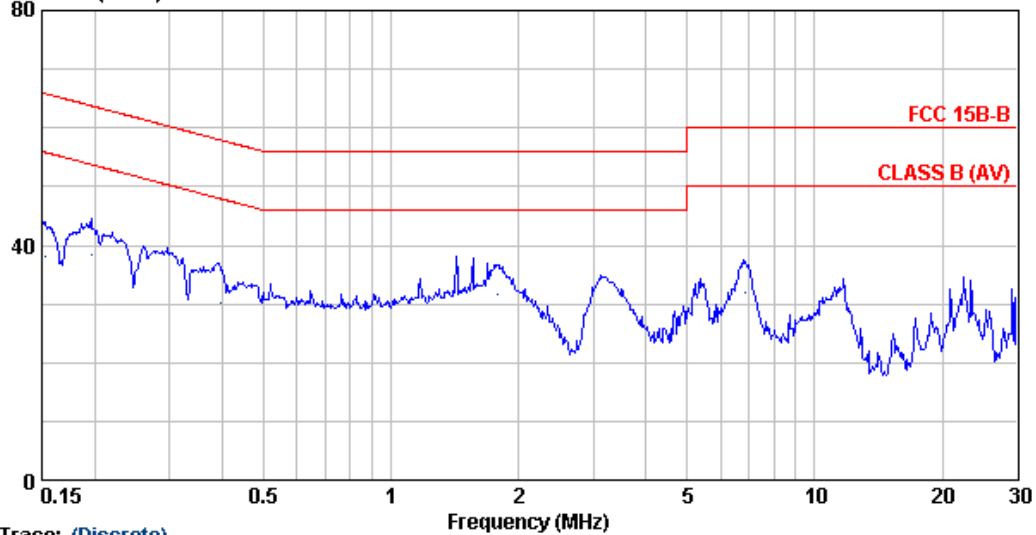
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.20	0.20	36.76	37.16	65.91	28.75	QP
2	0.198	0.10	0.20	36.67	36.97	63.71	26.74	QP
3	0.391	0.10	0.20	32.67	32.97	58.03	25.06	QP
4	1.426	0.10	0.40	31.65	32.15	56.00	23.85	QP
5	1.810	0.10	0.40	31.19	31.69	56.00	24.31	QP
6	6.878	0.15	0.60	34.85	35.60	60.00	24.40	QP

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: E:\test-data\report\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:04:51



Trace: (Discrete)

Site : NO.5 Shielded room Data : 16
 Condition : KNW-407 (8-1539-2) Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 2048*1536/80Hz ; 130KHz (D-SUB)
 S/N:TY0405050

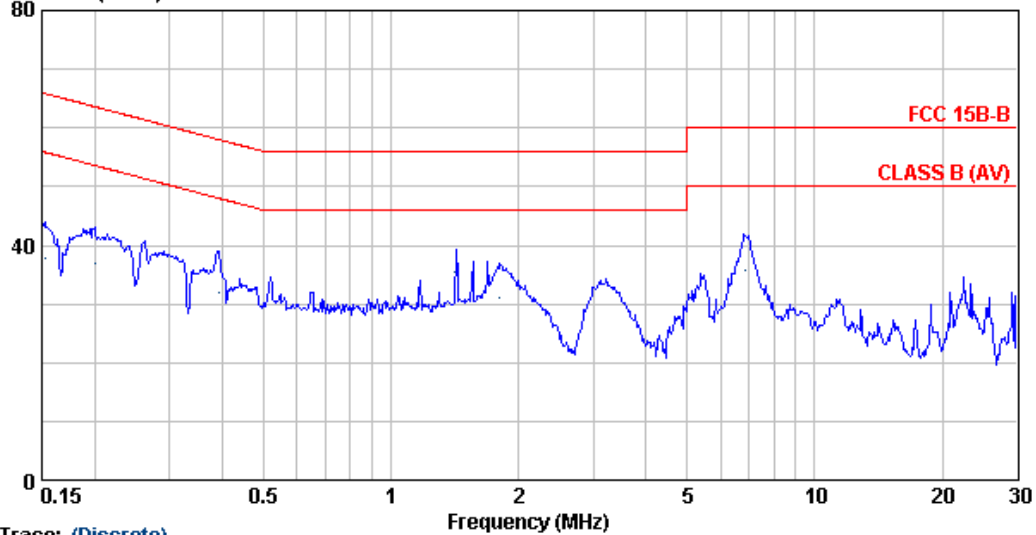
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.30	0.20	37.57	38.07	65.87	27.79	QP
2	0.197	0.10	0.20	38.21	38.51	63.76	25.25	QP
3	0.396	0.10	0.20	29.76	30.06	57.95	27.89	QP
4	1.426	0.10	0.40	34.59	35.09	56.00	20.91	QP
5	1.790	0.10	0.40	31.03	31.53	56.00	24.47	QP
6	6.841	0.15	0.60	31.32	32.07	60.00	27.93	QP

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: 15 File: E:\test-data\report\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:03:23



Trace: (Discrete)

Site : NO.5 Shielded room Data : 15
 Condition : KNW-407 (8-1539-2) Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 2048*1536/80Hz ; 130KHz (D-SUB)
 S/N:TY0405050

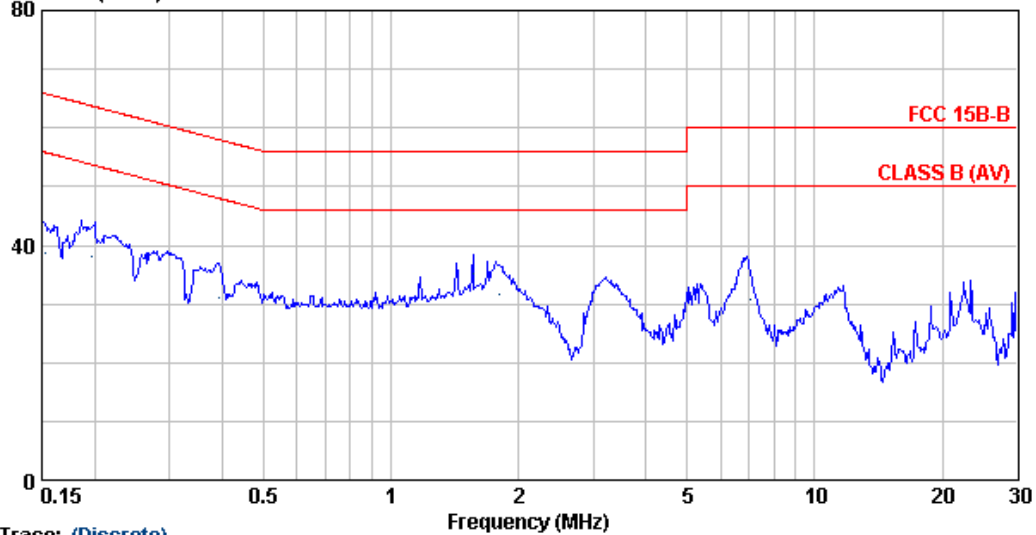
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.20	0.20	37.54	37.94	65.87	27.93	QP
2	0.200	0.10	0.20	36.72	37.02	63.62	26.60	QP
3	0.391	0.10	0.20	31.61	31.91	58.03	26.12	QP
4	1.418	0.10	0.40	34.87	35.37	56.00	20.63	QP
5	1.810	0.10	0.40	30.50	31.00	56.00	25.00	QP
6	6.841	0.15	0.60	34.98	35.72	60.00	24.28	QP

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: 13 File: E:\test-data\report\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:00:35



Trace: (Discrete)

Site : NO.5 Shielded room Data : 13
 Condition : KNW-407 (8-1539-2) Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 2048*1536/80Hz ; 130KHz (BNC)
 S/N:TY0405050

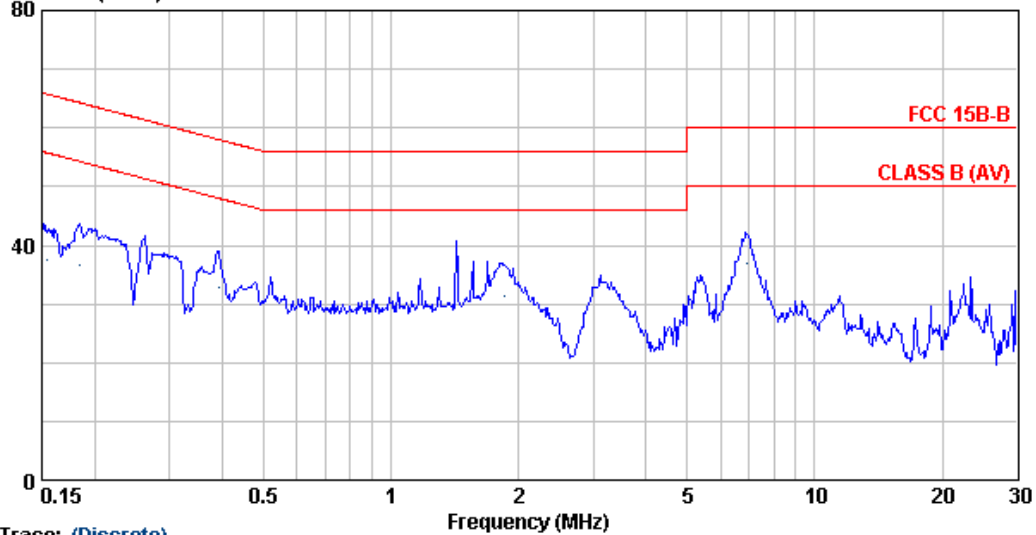
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.30	0.20	38.29	38.79	65.87	27.07	QP
2	0.198	0.10	0.20	37.68	37.98	63.71	25.73	QP
3	0.391	0.10	0.20	30.67	30.97	58.03	27.06	QP
4	1.560	0.10	0.40	34.75	35.25	56.00	20.75	QP
5	1.810	0.10	0.40	31.09	31.59	56.00	24.41	QP
6	7.025	0.15	0.60	30.14	30.89	60.00	29.11	QP

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: 14 File: E:\test-data\report\EM940001~EM940500\EM940322-C.EMI (24)
 Level (dBuV) Date: 2005-03-17 Time: 11:01:50



Trace: (Discrete)

Site : NO.5 Shielded room Data : 14
 Condition : KNW-407 (8-1539-2) Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : (20°C/69%) / E8C830 Engineer: ALEX HUANG
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac/60Hz
 Test Mode : 2048*1536/80Hz ; 130KHz (BNC)
 S/N:TY0405050

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.154	0.20	0.20	37.04	37.44	65.78	28.34	QP
2	0.184	0.15	0.20	36.36	36.71	64.28	27.58	QP
3	0.391	0.10	0.20	32.63	32.93	58.03	25.10	QP
4	1.426	0.10	0.40	35.35	35.85	56.00	20.15	QP
5	1.858	0.10	0.40	30.99	31.49	56.00	24.51	QP
6	6.914	0.15	0.60	36.08	36.83	60.00	23.17	QP

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 measurement:

3.1.1. For 30MHz~1000MHz Frequency at Simple Anechoic Chamber

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Oct. 04, 04'	Oct. 03, 05'
2.	Pre-Amplifier	HP	8447D	2944A06669	Jul. 27, 04'	Jul. 26, 05'
3.	Bilog Antenna	Schwarzbeck	CBL6112B	2818	May 18, 04'	May 17, 05'

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

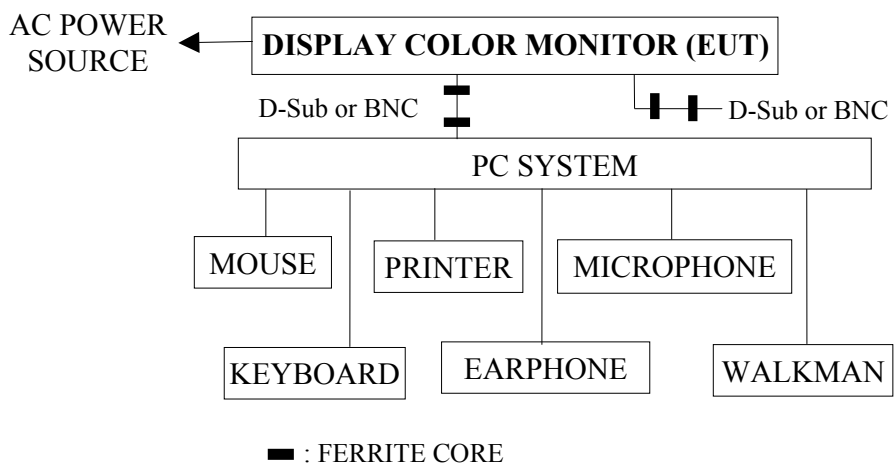
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	100338	May 06, 04'	May 05, 05'
2.	Biconical Antenna	Chase	VBA6106A	1227	Nov. 15, 04'	Nov. 14, 05'
3.	Log Periodic Antenna	Chase	UPA6109	1027	Nov. 15, 04'	Nov. 14, 05'

3.1.3. For 1GHz~2GHz Frequency (At No. 3 Open Area Test Site)

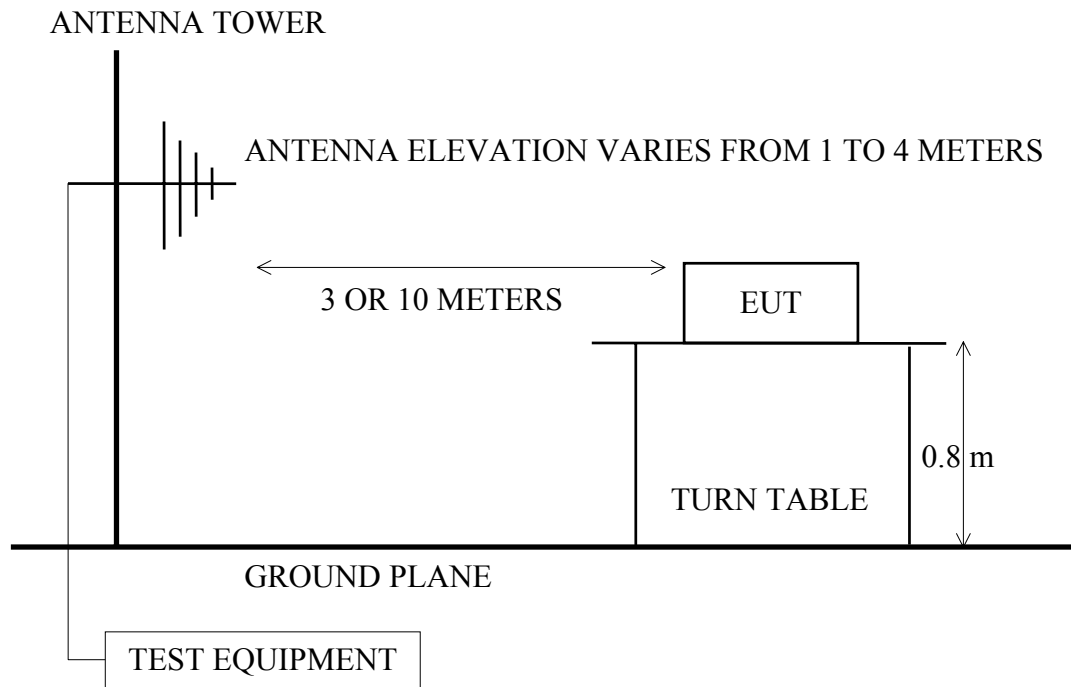
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00272	Jun. 07, 04'	Jun. 07, 05'
2.	Amplifier	HP	8449B	3008A01284	Jul. 02, 04'	Jul. 02, 05'
3.	Horn Antenna	EMCO	3115	9609-4927	Jul. 06, 04'	Jul. 06, 05'

3.2. Block Diagram of Test Setup

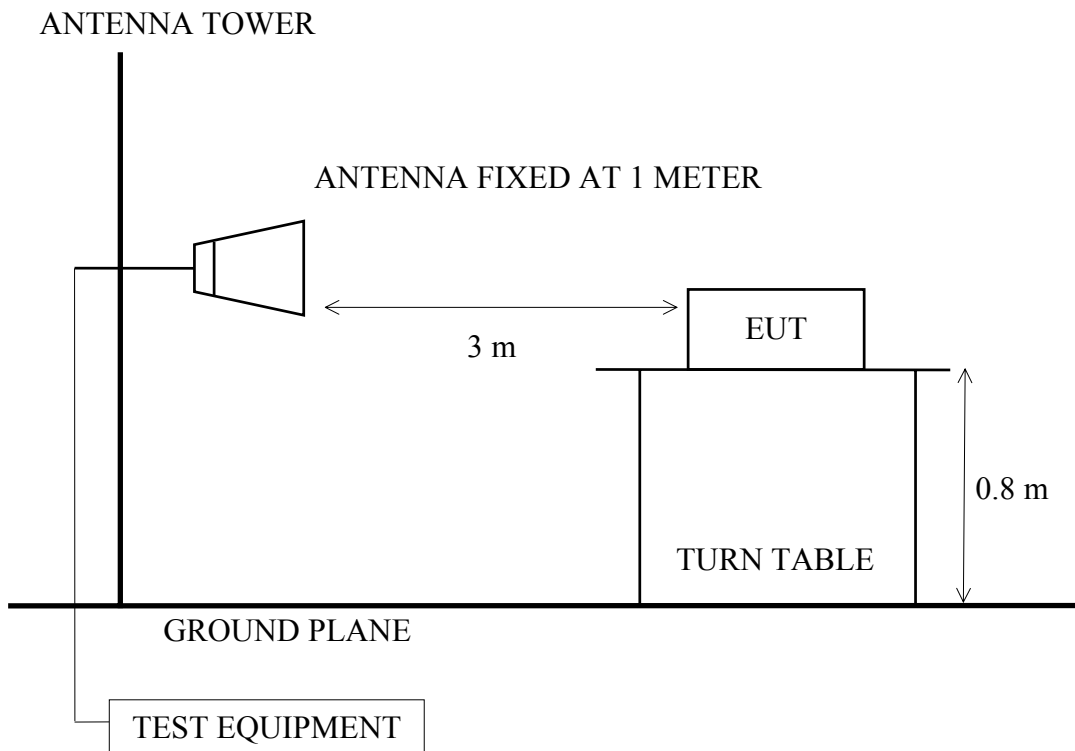
3.2.1. Block Diagram of connection between EUT and simulators



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 μ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37
1000 ~ 2000	3	54.0 (Average)
1000 ~ 2000	3	74.0 (Peak)

- 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 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 No. 4 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) away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) and dipole antenna were used as receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2003 and CISPR 22 on radiated measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz.

The frequency range from 30MHz to 1000MHz was checked 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 No. 5 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 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 8593EM was set at 1MHz.

The frequency range from 1GHz to 2GHz was checked 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 30MHz~1000MHz frequency range

EUT with the following test modes and were measured within Simple Anechoic Chamber and all the scanning waveform were attached within Appendix I, which include :

EUT: Display Color Monitor Model: 202P70

Test Date: Mar. 16, 2005 Temperature: 24°C Humidity: 40%

The details of test modes are as follows:

Mode	Input	Resolution/ Frequency	Reference Test Data No.	
			Horizontal	Vertical
1.	D-Sub	800*600/60Hz, 38kHz	# 10	# 9
2.		1280*1024/75Hz, 80kHz	# 7	# 8
3.		1600*1200/85Hz, 106.5kHz	# 6	# 5
4.		1920*1440/85Hz, 128.5kHz	# 3	# 4
5.		2048*1536/80Hz, 130kHz	# 2	# 1
6.	BNC	2048*1536/80Hz, 130kHz	# 11	# 12

Finally, re-measured two test modes [**Mode 5 & 6**] at No. 3 open area test site and all the test results are attached in section 3.7.1.

Test Date: Mar. 17, 2005 Temperature: 24°C Humidity: 51%

The details of test modes are as follows:

Mode	Input	Resolution/ Frequency	Reference Test Data No.	
			Horizontal	Vertical
5.*	D-Sub	2048*1536/80Hz, 130kHz	# 16	# 15
6.	BNC	2048*1536/80Hz, 130kHz	# 13	# 14

(*mode for maximum detected emission)

For 1-2GHz frequency range

To select two worst test modes [**Mode 4 & 6**] performed measurement at No. 3 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. 17, 2005 Temperature: 24°C Humidity: 51%

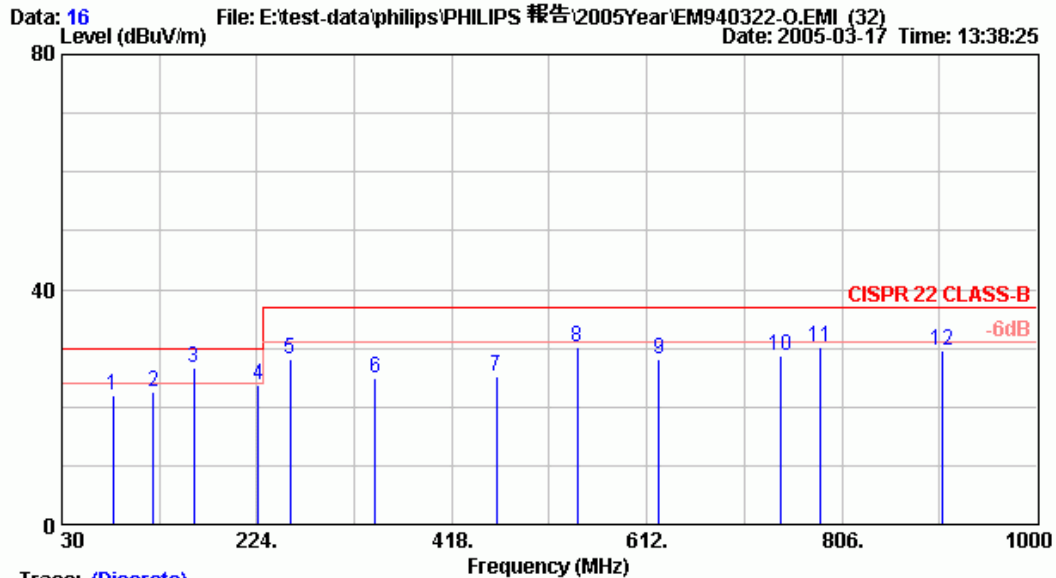
The details of test modes are as follows:

Mode	Input	Resolution/ Frequency	Reference Test Data No.			
			Horizontal		Vertical	
4.	D-Sub	1920*1440/85Hz, 128.5kHz	Peak	# 29	Peak	# 32
			AV	# 30	AV	# 31
6.	BNC	2048*1536/80Hz, 130kHz	Peak	# 27	Peak	# 25
			AV	# 28	AV	# 26

3.7.1. 30MHz to 1000MHz frequency and at 10 meters distance measurement



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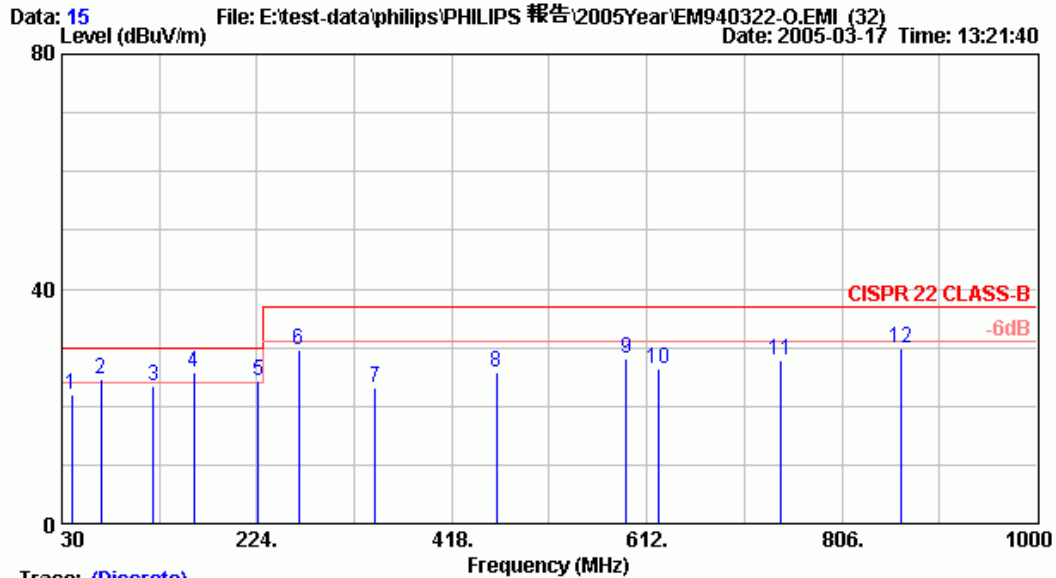
Site no. : NO.3 Open Site Data no. : 16
Dis. / Ant. : 10m 6106A/6109 (0104) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 24°C/51% ESCS30 Engineer : Jingo
EUT : Display Color Monitor M/N:202P70
Power Rating : 120Vac / 60Hz
Test Mode : 2048*1536/80Hz 130KHz (D-SUB)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	80.475	13.78	1.80	6.30	21.88	30.00	8.12	
2	120.780	18.72	2.20	1.52	22.44	30.00	7.56	
3	160.953	20.69	2.40	3.49	26.58	30.00	3.42	*
4	225.336	21.63	3.20	-0.99	23.84	30.00	6.16	
5	257.527	22.42	3.40	2.31	28.13	37.00	8.87	
6	341.958	14.65	3.80	6.44	24.89	37.00	12.11	
7	462.700	17.28	4.80	3.17	25.25	37.00	11.75	
8	543.195	19.50	5.20	5.52	30.22	37.00	6.78	
9	623.690	20.04	5.60	2.48	28.12	37.00	8.88	
10	744.433	21.77	6.20	0.60	28.57	37.00	8.43	
11	784.680	22.28	6.40	1.38	30.06	37.00	6.94	
12	905.423	23.42	6.80	-0.62	29.60	37.00	7.40	

- 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 160.953MHz with corrected signal level of 26.58dB μ V/m (limit is 30.0dB μ V/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 310°.
4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



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Web:www.ttmc.com



Trace: (Discrete)

Site no. : NO.3 Open Site Data no. : 15
Dis. / Ant. : 10m 6106A/6109 (0104) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 24°C/51% ESCS30 Engineer : Jingo
EUT : Display Color Monitor M/N:202P70
Power Rating : 120Vac / 60Hz
Test Mode : 2048*1536/80Hz 130KHz (D-SUB)

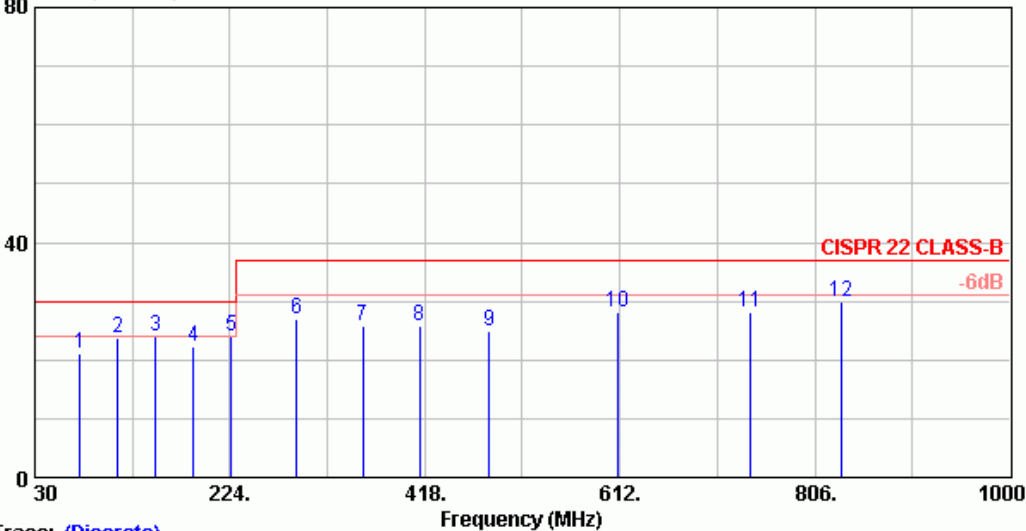
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	40.250	19.17	1.20	1.72	22.09	30.00	7.91	
2	69.280	12.87	1.60	10.09	24.56	30.00	5.44	
3	120.729	19.30	2.20	2.07	23.57	30.00	6.43	
4	160.954	19.91	2.40	3.49	25.80	30.00	4.20	*
5	225.351	20.88	3.20	0.11	24.19	30.00	5.81	
6	265.599	22.46	3.40	3.79	29.65	37.00	7.35	
7	341.990	14.90	3.80	4.40	23.10	37.00	13.90	
8	462.700	18.13	4.80	2.94	25.87	37.00	11.13	
9	591.550	20.56	5.40	2.18	28.14	37.00	8.86	
10	623.638	19.94	5.60	0.93	26.47	37.00	10.53	
11	744.302	21.80	6.20	-0.28	27.72	37.00	9.28	
12	865.176	24.10	6.60	-0.77	29.93	37.00	7.07	

- 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 160.954MHz with corrected signal level of 25.80dB μ V/m (limit is 30.0dB μ V/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 225°.
4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



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Data: 13 File: E:\test-data\philips\PHILIPS 報告\2005Year\EM940322-0.EMI (32)
Level (dBuV/m) Date: 2005-03-17 Time: 11:46:32



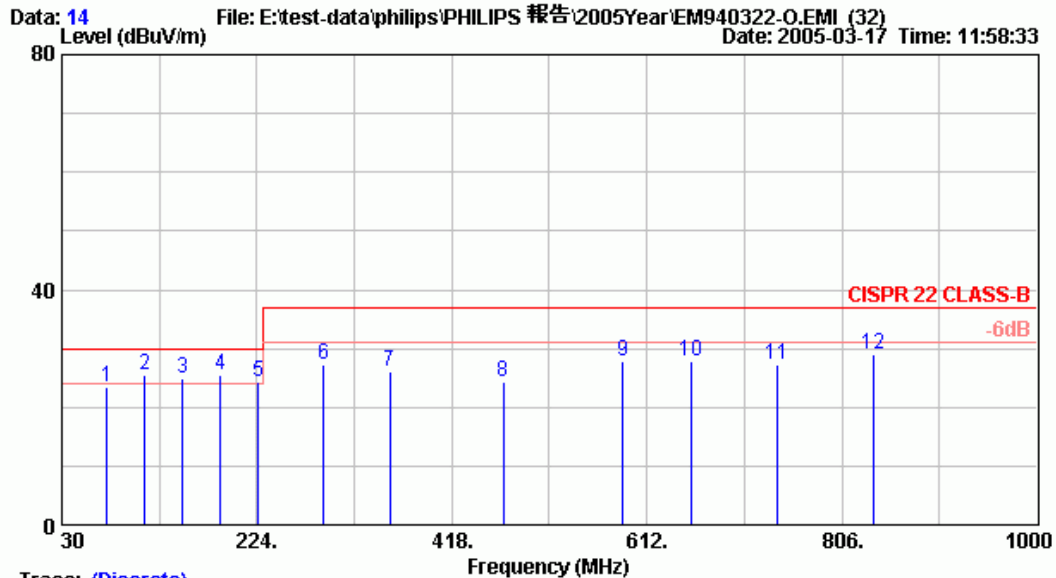
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Site no. : NO.3 Open Site Data no. : 13
Dis. / Ant. : 10m 6106A/6109 (0104) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 24°C/51% ESCS30 Engineer : Jingo
EUT : Display Color Monitor M/N:202P70
Power Rating : 120Vac / 60Hz
Test Mode : 2048*1536/80Hz 130KHz (BNC)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	75.034	13.03	1.60	6.50	21.13	30.00	8.87	
2	112.548	18.40	2.00	3.40	23.80	30.00	6.20	
3	150.062	19.87	2.40	1.84	24.11	30.00	5.89	
4	187.577	20.79	2.70	-1.35	22.14	30.00	7.86	
5	225.091	21.63	3.20	-0.79	24.04	30.00	5.96	
6	290.748	24.37	3.40	-0.79	26.98	37.00	10.02	
7	356.391	15.13	3.80	6.91	25.84	37.00	11.16	
8	412.662	16.15	4.20	5.37	25.72	37.00	11.28	
9	482.274	17.84	4.80	2.19	24.83	37.00	12.17	
10	609.624	20.32	5.40	2.39	28.11	37.00	8.89	
11	740.930	21.45	6.00	0.58	28.03	37.00	8.97	
12	832.106	23.10	6.60	0.05	29.75	37.00	7.25	

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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Web:www.ttmc.com



Trace: (Discrete)

Site no.	: NO.3 Open Site	Data no.	: 14
Dis. / Ant.	: 10m 6106A/6109 (0104)	Ant. pol.	: VERTICAL
Limit	: CISPR 22 CLASS-B		
Env. / Ins.	: 24°C/51% ESCS30	Engineer	: Jingo
EUT	: Display Color Monitor M/N:202P70		
Power Rating	: 120Vac / 60Hz		
Test Mode	: 2048*1536/80Hz 130KHz (BNC)		

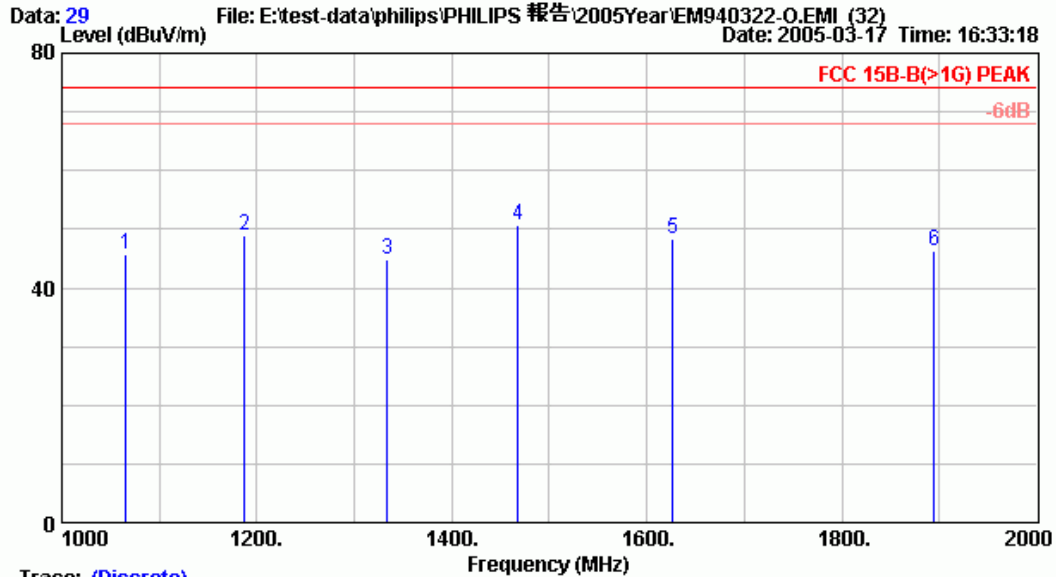
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	75.034	13.39	1.60	8.50	23.49	30.00	6.51	
2	112.548	17.99	2.00	5.38	25.37	30.00	4.63	
3	150.062	20.76	2.40	1.84	25.00	30.00	5.00	
4	187.577	21.16	2.70	1.65	25.51	30.00	4.49	
5	225.091	20.88	3.20	0.21	24.29	30.00	5.71	
6	290.748	24.71	3.40	-0.75	27.36	37.00	9.64	
7	356.389	15.80	3.80	6.50	26.10	37.00	10.90	
8	468.933	18.28	4.80	1.35	24.43	37.00	12.57	
9	588.340	20.26	5.40	2.19	27.85	37.00	9.15	
10	656.513	20.66	5.60	1.59	27.85	37.00	9.15	
11	740.924	21.69	6.00	-0.36	27.33	37.00	9.67	
12	838.220	23.26	6.60	-0.87	28.99	37.00	8.01	

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

3.7.2. Above 1GHz frequency and at 3 meters distance measurement



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Web:www.ttemc.com



Trace: (Discrete)

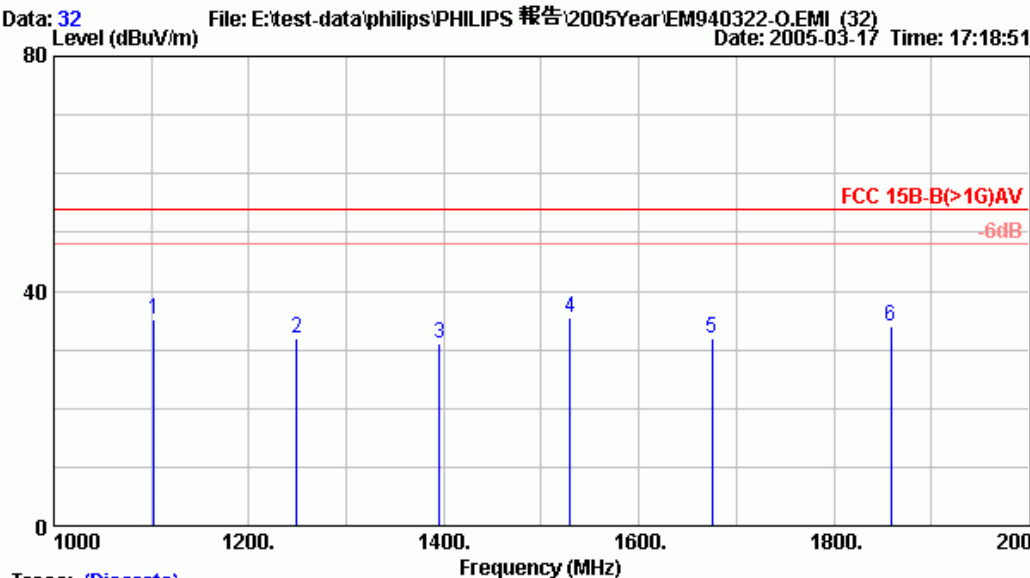
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Dis. / Ant.	: 3m HORN ANT	Ant. pol.	: HORIZONTAL
Limit	: FCC 15B-B(>1G) PEAK		
Env. / Ins.	: 24°C/51% ESCS30	Engineer	: Jingo
EUT	: Display Color Monitor M/N:202P70		
Power Rating	: 120Vac / 60Hz		
Test Mode	: 1920*1440/85Hz 128.5KHz (D-SUB)		

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB μ V)	(dB μ V/m)	(dB μ V/m)	(dB)	
1	1065.939	24.80	2.01	18.77	45.58	74.00	28.42	PEAK
2	1187.789	25.15	2.03	21.71	48.89	74.00	25.11	PEAK
3	1334.009	25.52	2.05	17.39	44.95	74.00	29.05	PEAK
4	1468.044	25.82	2.07	22.71	50.59	74.00	23.41	PEAK
5	1626.449	26.14	2.08	20.14	48.36	74.00	25.64	PEAK
6	1894.519	26.63	2.11	17.52	46.25	74.00	27.75	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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Web:www.ttenc.com



Site no. : NO.3 Open Site Data no. : 32
Dis. / Ant. : 3m HORN ANT Ant. pol. : VERTICAL
Limit : FCC 15B-B (>1G) AV
Env. / Ins. : 24°C/51% ESCS30 Engineer : Jingo
EUT : Display Color Monitor M/N:202P70
Power Rating : 120Vac / 60Hz
Test Mode : 1920*1440/85Hz 128.5KHz (D-SUB)

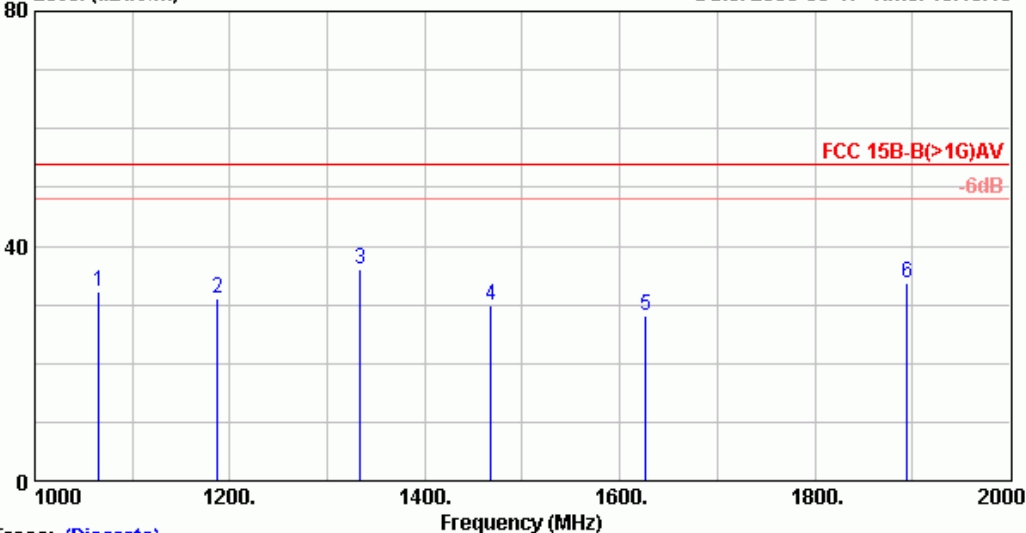
	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB μV)	(dB μV/m)	(dB μV/m)	(dB)	
1	1102.677	24.91	2.02	8.24	35.17	54.00	18.83	AVERAGE
2	1248.897	25.31	2.04	4.54	31.88	54.00	22.12	AVERAGE
3	1395.117	25.65	2.06	3.24	30.95	54.00	23.05	AVERAGE
4	1529.152	25.95	2.07	7.31	35.33	54.00	18.67	AVERAGE
5	1675.372	26.24	2.09	3.60	31.93	54.00	22.07	AVERAGE
6	1858.147	26.56	2.10	5.37	34.04	54.00	19.96	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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Web:www.ttmc.com

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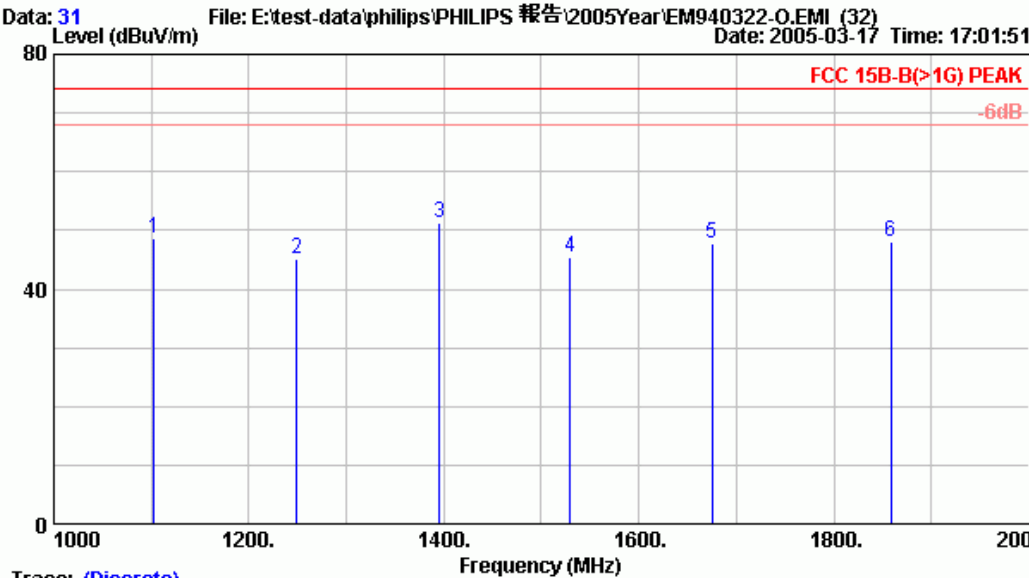
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Dis. / Ant. : 3m HORN ANT Ant. pol. : HORIZONTAL
Limit : FCC 15B-B(>1G)AV
Env. / Ins. : 24°C/51% ESCS30 Engineer : Jingo
EUT : Display Color Monitor M/N:202P70
Power Rating : 120Vac / 60Hz
Test Mode : 1920*1440/85Hz 128.5KHz (D-SUB)

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB μV)	(dB μV/m)	(dB μV/m)	(dB)	
1	1065.939	24.80	2.01	5.44	32.25	54.00	21.75	AVERAGE
2	1187.789	25.15	2.03	3.93	31.11	54.00	22.89	AVERAGE
3	1334.009	25.52	2.05	8.36	35.92	54.00	18.08	AVERAGE
4	1468.044	25.82	2.07	1.98	29.86	54.00	24.14	AVERAGE
5	1626.449	26.14	2.08	-0.23	27.99	54.00	26.01	AVERAGE
6	1894.519	26.63	2.11	4.90	33.63	54.00	20.37	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
Web:www.ttmc.com



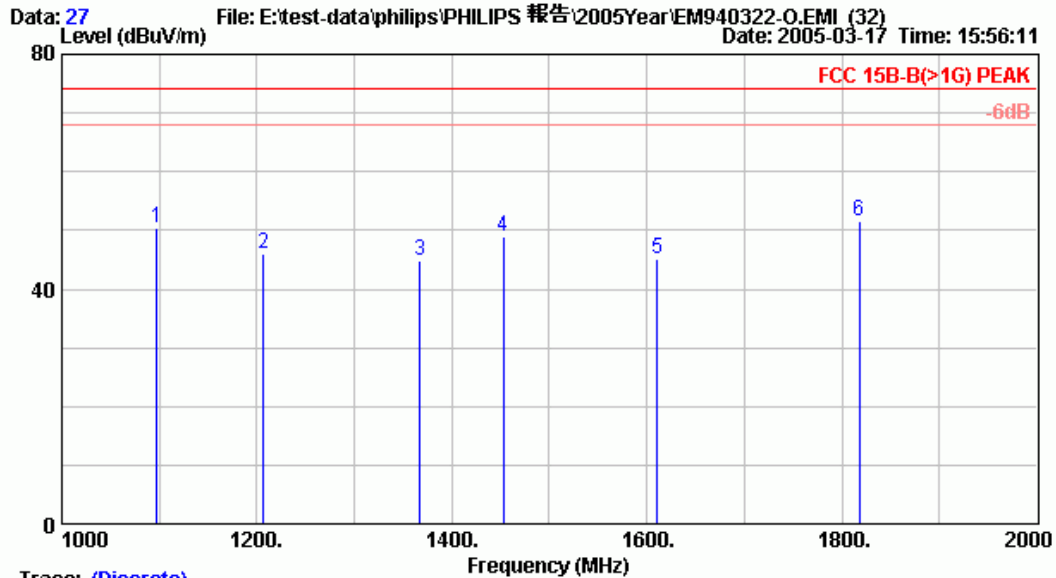
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Dis. / Ant. : 3m HORN ANT Ant. pol. : VERTICAL
Limit : FCC 15B-B(>1G) PEAK
Env. / Ins. : 24°C/51% ESCS30 Engineer : Jingo
EUT : Display Color Monitor M/N:202P70
Power Rating : 120Vac / 60Hz
Test Mode : 1920*1440/85Hz 128.5KHz (D-SUB)

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB μ V)	(dB μ V/m)	(dB μ V/m)	(dB)	
1	1102.677	24.91	2.02	21.77	48.70	74.00	25.30	AVERAGE
2	1248.897	25.31	2.04	17.67	45.01	74.00	28.99	AVERAGE
3	1395.117	25.65	2.06	23.46	51.17	74.00	22.83	AVERAGE
4	1529.152	25.95	2.07	17.29	45.31	74.00	28.69	AVERAGE
5	1675.372	26.24	2.09	19.54	47.87	74.00	26.13	AVERAGE
6	1858.147	26.56	2.10	19.48	48.15	74.00	25.85	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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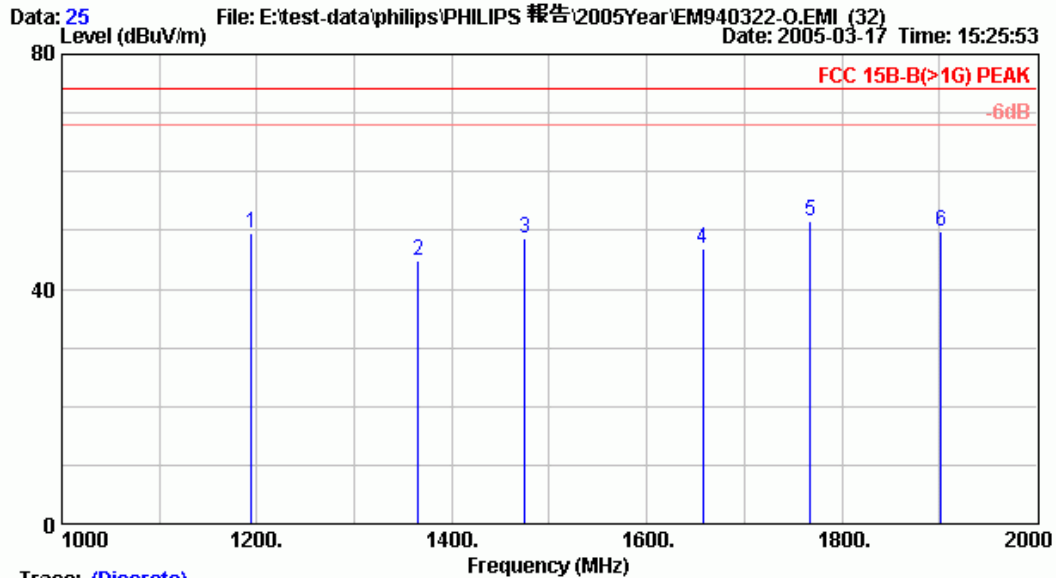
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 Limit : FCC 15B-B(>1G) PEAK
 Env. / Ins. : 24°C/51% ESCS30 Engineer : Jingo
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac / 60Hz
 Test Mode : 2048*1536/80Hz 130KHz (BNC)

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB μ V)	(dB μ V/m)	(dB μ V/m)	(dB)	
1	1097.204	24.89	2.02	23.62	50.53	74.00	23.47	PEAK
2	1206.869	25.20	2.03	18.83	46.06	74.00	27.94	PEAK
3	1367.131	25.59	2.05	17.11	44.75	74.00	29.25	PEAK
4	1452.426	25.78	2.06	21.03	48.88	74.00	25.12	PEAK
5	1610.831	26.11	2.08	16.84	45.03	74.00	28.97	PEAK
6	1817.976	26.50	2.10	22.94	51.54	74.00	22.46	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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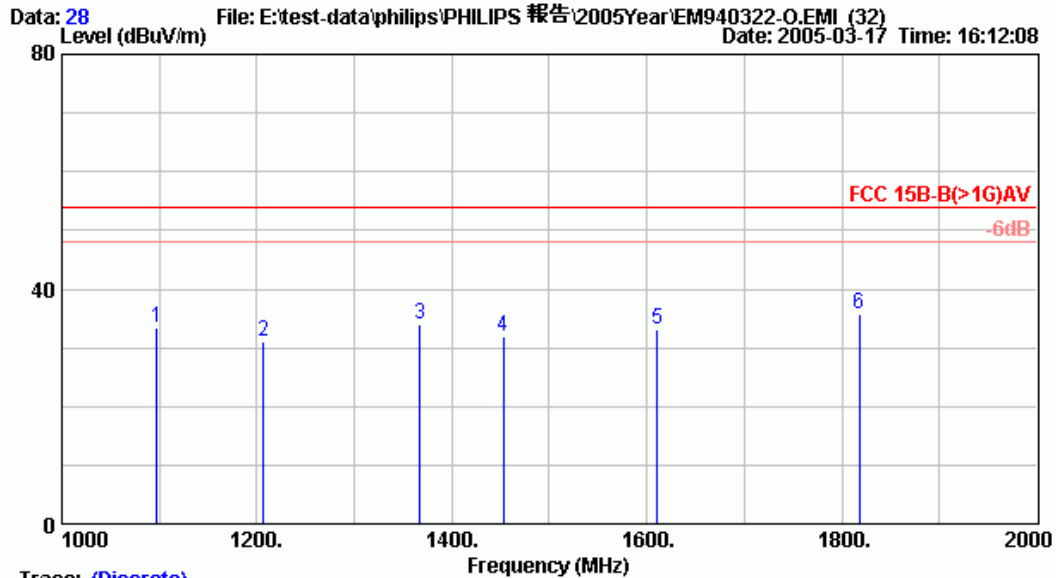
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 Limit : FCC 15B-B(>1G) PEAK
 Env. / Ins. : 24°C/51% ESCS30 Engineer : Jingo
 EUT : Display Color Monitor M/N:202P70
 Power Rating : 120Vac / 60Hz
 Test Mode : 2048*1536/80Hz 130KHz (BNC)

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB μ V)	(dB μ V/m)	(dB μ V/m)	(dB)	
1	1194.722	25.17	2.03	22.25	49.45	74.00	24.55	PEAK
2	1365.312	25.59	2.05	17.10	44.74	74.00	29.26	PEAK
3	1474.977	25.83	2.07	20.74	48.63	74.00	25.37	PEAK
4	1657.752	26.20	2.09	18.47	46.76	74.00	27.24	PEAK
5	1767.417	26.41	2.10	23.18	51.68	74.00	22.32	PEAK
6	1901.452	26.64	2.11	21.16	49.90	74.00	24.10	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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Web:www.ttmc.com



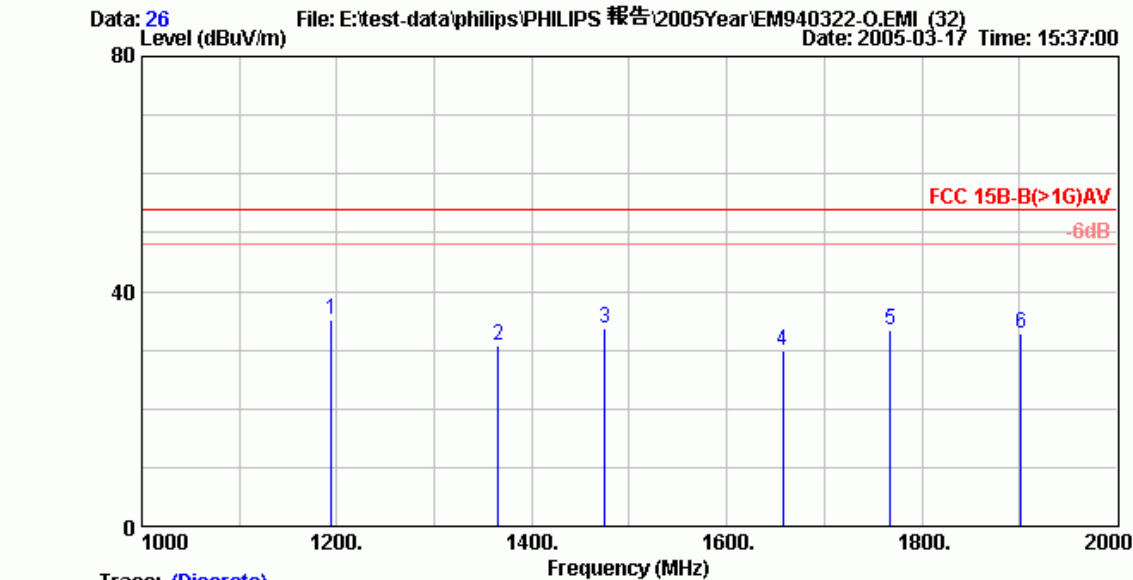
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Dis. / Ant. : 3m HORN ANT Ant. pol. : HORIZONTAL
Limit : FCC 15B-B(>1G)AV
Env. / Ins. : 24°C/51% ESCS30 Engineer : Jingo
EUT : Display Color Monitor M/N:202P70
Power Rating : 120Vac / 60Hz
Test Mode : 2048*1536/80Hz 130KHz (BNC)

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB μ V)	(dB μ V/m)	(dB μ V/m)	(dB)	
1	1097.204	24.89	2.02	6.36	33.27	54.00	20.73	AVERAGE
2	1206.869	25.20	2.03	3.95	31.18	54.00	22.82	AVERAGE
3	1367.131	25.59	2.05	6.29	33.93	54.00	20.07	AVERAGE
4	1452.426	25.78	2.06	4.06	31.91	54.00	22.09	AVERAGE
5	1610.831	26.11	2.08	4.96	33.15	54.00	20.85	AVERAGE
6	1817.976	26.50	2.10	7.19	35.79	54.00	18.21	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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Trace: (Discrete)

Site no.	: NO.3 Open Site	Data no.	: 26
Dis. / Ant.	: 3m HORN ANT	Ant. pol.	: VERTICAL
Limit	: FCC 15B-B(>1G)AV		
Env. / Ins.	: 24°C/51% ESCS30	Engineer	: Jingo
EUT	: Display Color Monitor M/N:202P70		
Power Rating	: 120Vac / 60Hz		
Test Mode	: 2048*1536/80Hz 130KHz (BNC)		

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB μV)	(dB μV/m)	(dB μV/m)	(dB)	
1	1194.722	25.17	2.03	8.01	35.21	54.00	18.79	AVERAGE
2	1365.312	25.59	2.05	3.26	30.90	54.00	23.10	AVERAGE
3	1474.977	25.83	2.07	5.78	33.67	54.00	20.33	AVERAGE
4	1657.752	26.20	2.09	1.60	29.89	54.00	24.11	AVERAGE
5	1767.417	26.41	2.10	4.80	33.30	54.00	20.70	AVERAGE
6	1901.452	26.64	2.11	3.94	32.68	54.00	21.32	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 Test Mode: Input--D-Sub



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

Test Mode: Input--BNC



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

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

Test Mode: Input--D-Sub



FRONT VIEW OF RADIATED MEASUREMENT

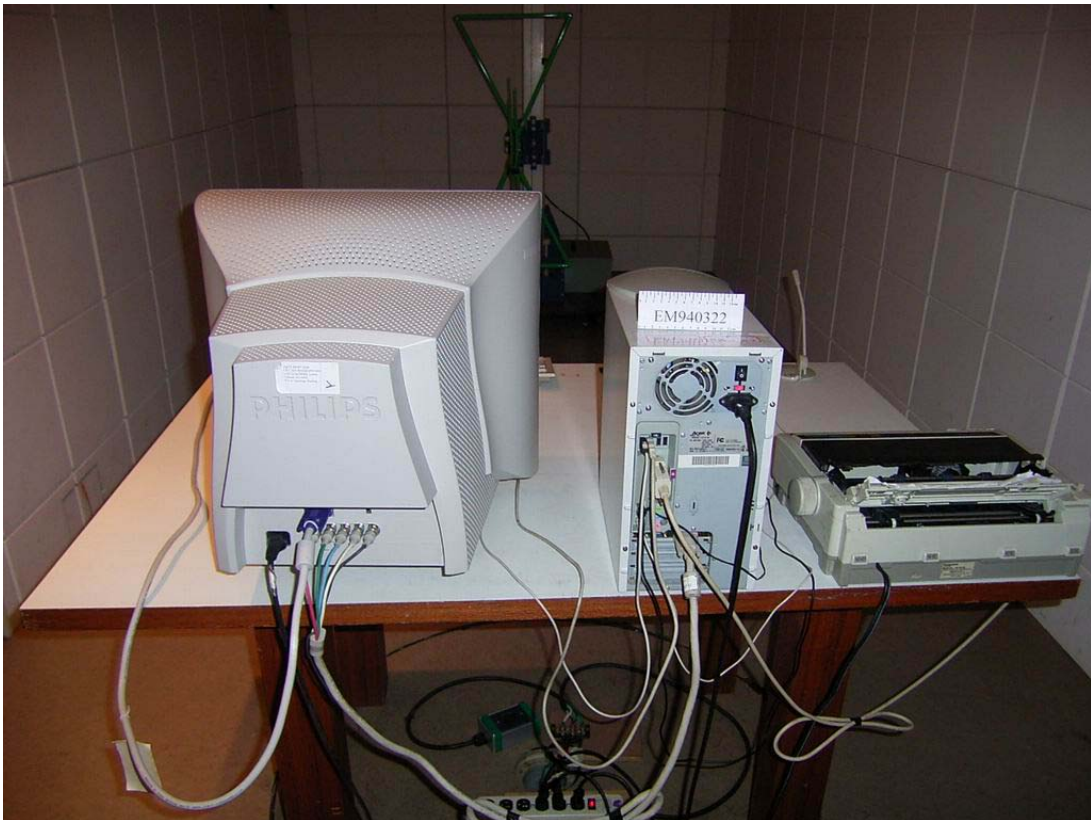


BACK VIEW OF RADIATED MEASUREMENT

Test Mode: Input--BNC



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: Input--D-Sub



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

Test Mode: Input--D-Sub, Resolution/ Frequency--2048*1536/80Hz, 130kHz



SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION

Test Mode: Input--BNC



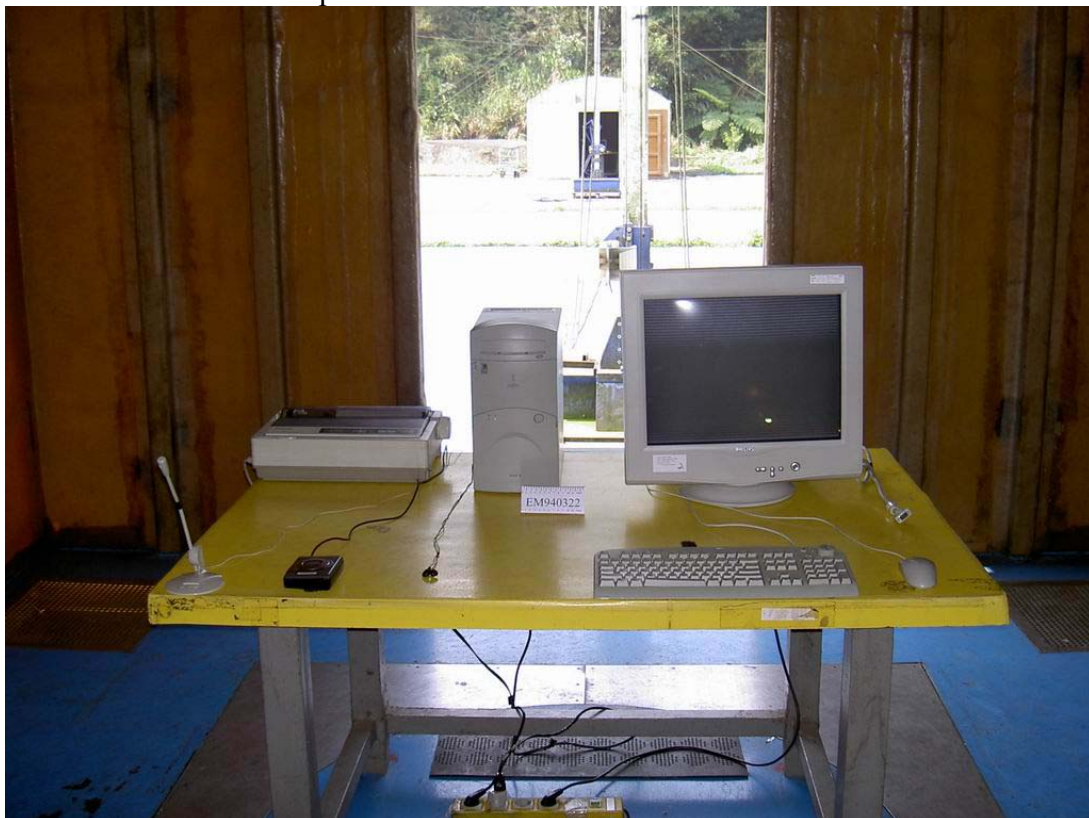
FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

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

Test Mode: Input--D-Sub



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

Test Mode: Input--D-Sub



Test Mode: Input--BNC



FRONT VIEW OF RADIATED MEASUREMENT

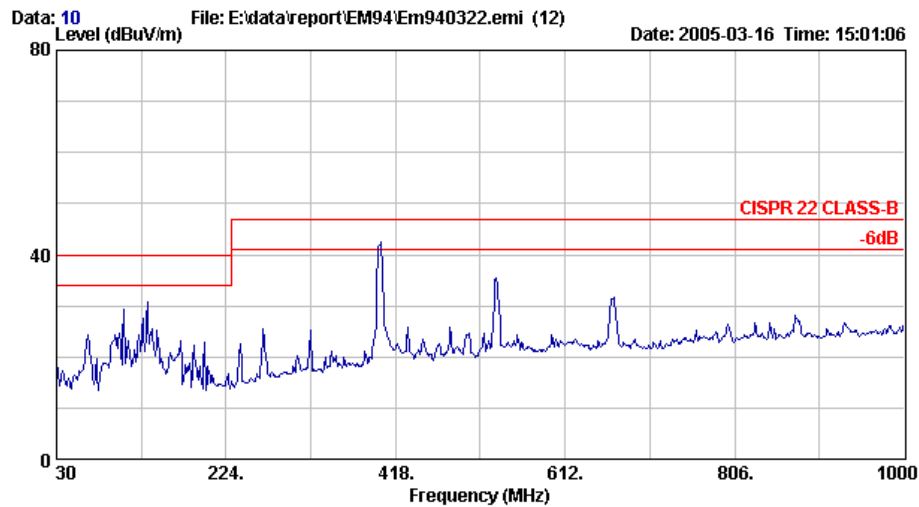
APPENDIX I

(Radiated Disturbance Test Data at
Simple Anechoic Chamber)

Total Page : 6 Pages



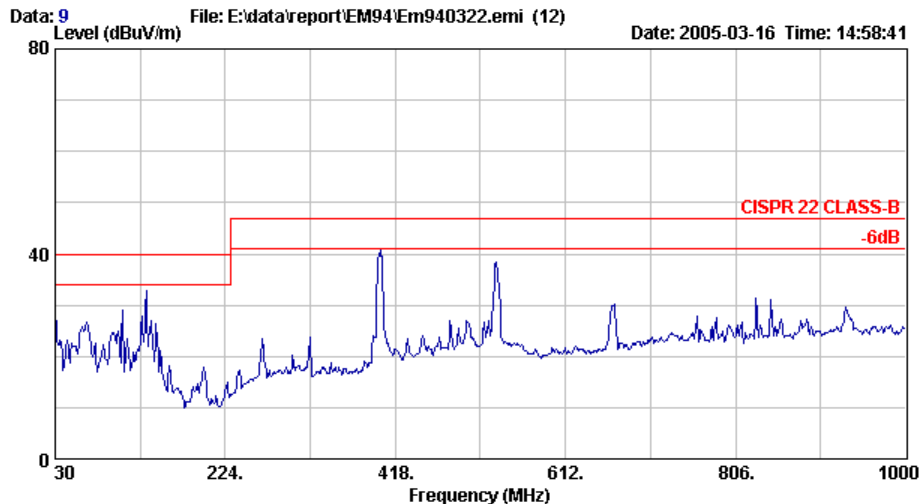
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County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



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 : Display Color Monitor M/N:202P70
Power Rating : 120Vac/60Hz
Test Mode : 800*600/60Hz 38KHz (D-SUB)
S/N:TY0405050



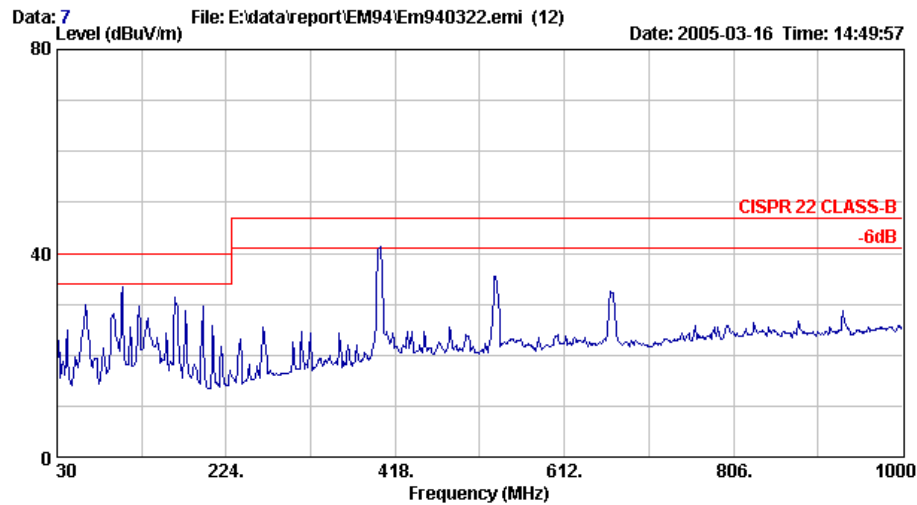
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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



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 : Display Color Monitor M/N:202P70
Power Rating : 120Vac/60Hz
Test Mode : 800*600/60Hz 38KHz (D-SUB)
S/N:TY0405050



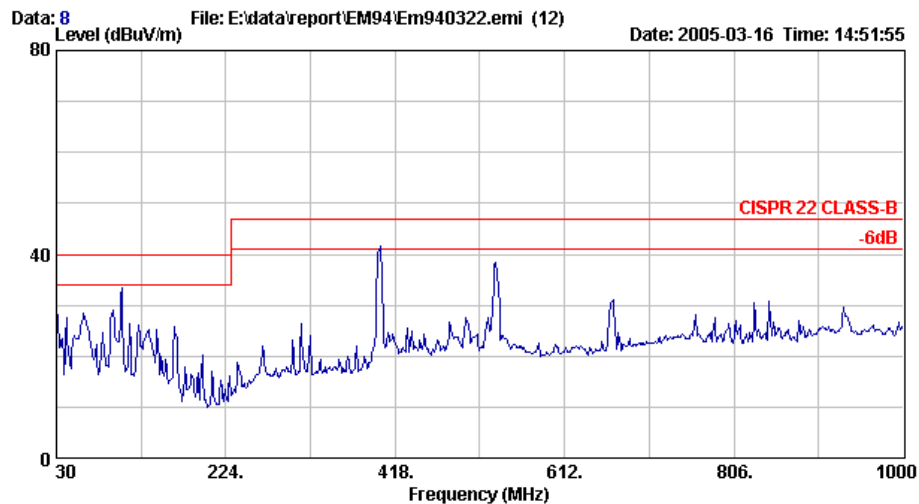
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Email:ttemc@ttemc.com.tw



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 : Display Color Monitor M/N:202P70
Power Rating : 120Vac/60Hz
Test Mode : 1280*1024/75Hz 80KHz (D-SUB)
S/N:TY0405050



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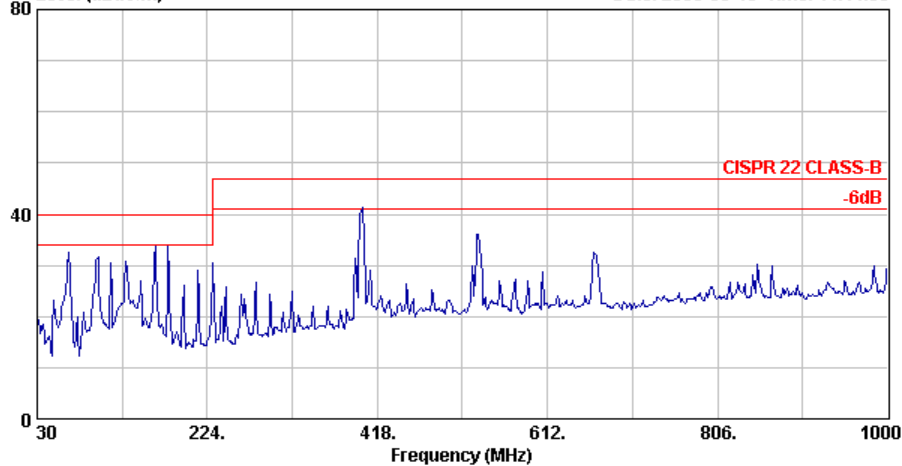


Site no. : AUDIX Mini Chamber Data no. : 8
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun
EUT : Display Color Monitor M/N:202P70
Power Rating : 120Vac/60Hz
Test Mode : 1280*1024/75Hz 80KHz (D-SUB)
S/N:TY0405050



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Data: 6 File: E:\data\report\EM94\Em940322.emi (12) Date: 2005-03-16 Time: 14:44:00
Level (dBuV/m)

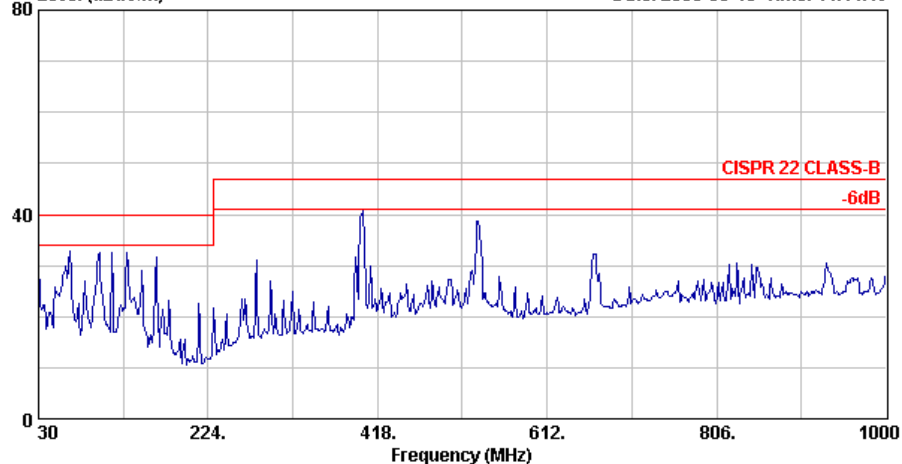


Site no. : AUDIX Mini Chamber Data no. : 6
Dis. / Ant. : 3m CBL6112B(2818) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 24°C/40% E7405A Engineer : kent sun
EUT : Display Color Monitor M/N:202P70
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200/85Hz 106KHz (D-SUB)
S/N:TY0405050



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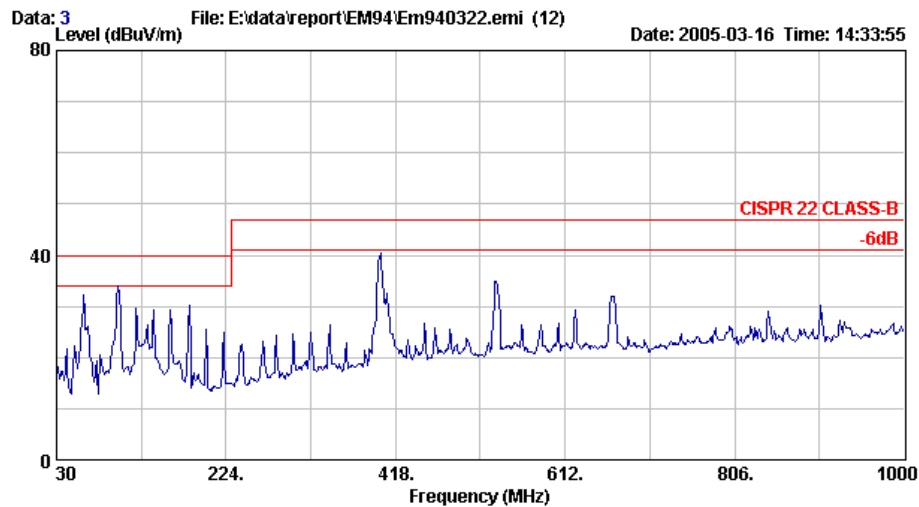
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Level (dBuV/m)



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 : Display Color Monitor M/N:202P70
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200/85Hz 106KHz (D-SUB)
S/N:TY0405050



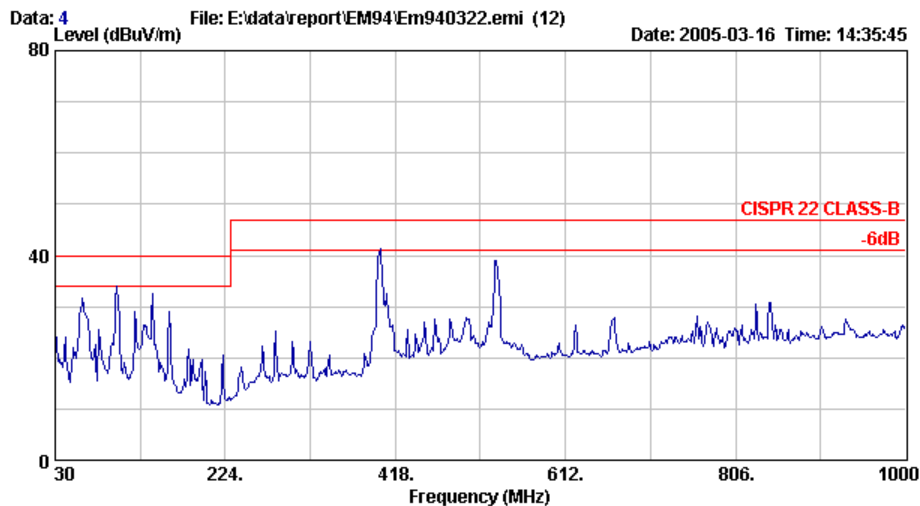
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Site no.	: AUDIX Mini Chamber	Data no.	: 3
Dis. / Ant.	: 3m CBL6112B (2818)	Ant. pol.	: HORIZONTAL
Limit	: CISPR 22 CLASS-B		
Env. / Ins.	: 24°C/40% E7405A	Engineer	: kent sun
EUT	: Display Color Monitor	M/N:	202P70
Power Rating	: 120Vac/60Hz		
Test Mode	: 1920*1440/85Hz 128.5KHz (D-SUB)		
	S/N: TY0405050		



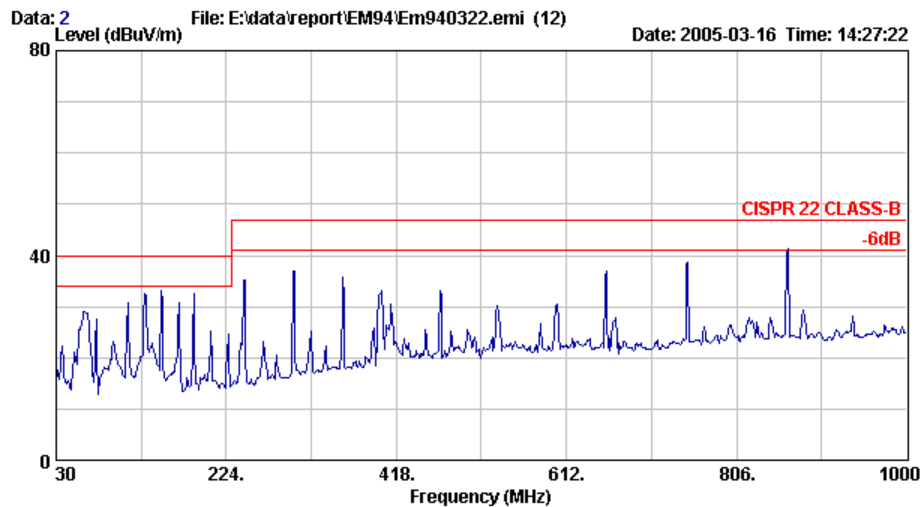
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Site no.	: AUDIX Mini Chamber	Data no.	: 4
Dis. / Ant.	: 3m CBL6112B (2818)	Ant. pol.	: VERTICAL
Limit	: CISPR 22 CLASS-B		
Env. / Ins.	: 24°C/40% E7405A	Engineer	: kent sun
EUT	: Display Color Monitor	M/N:	202P70
Power Rating	: 120Vac/60Hz		
Test Mode	: 1920*1440/85Hz 128.5KHz (D-SUB)		
	S/N: TY0405050		



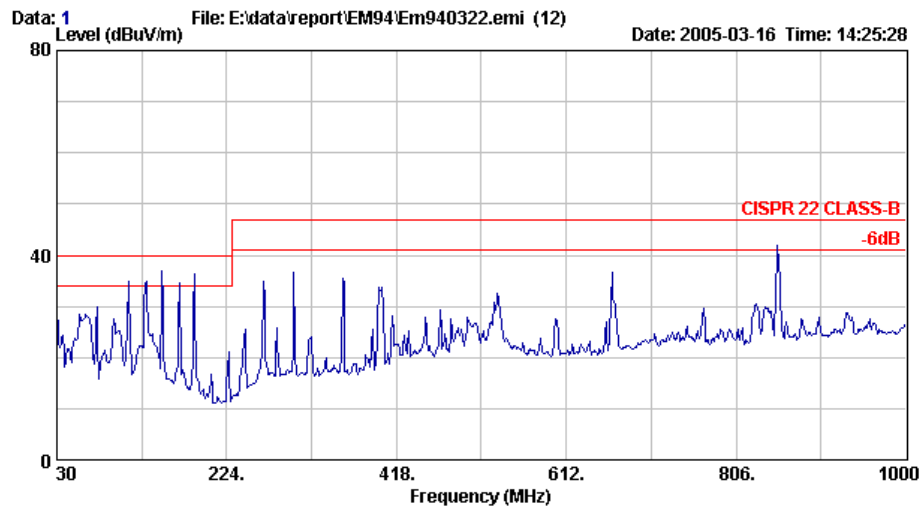
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Site no.	: AUDIX Mini Chamber	Data no.	: 2
Dis. / Ant.	: 3m CBL6112B (2818)	Ant. pol.	: HORIZONTAL
Limit	: CISPR 22 CLASS-B		
Env. / Ins.	: 24°C/40% E7405A	Engineer	: kent sun
EUT	: Display Color Monitor M/N:202P70		
Power Rating	: 120Vac/60Hz		
Test Mode	: 2048*1536/80Hz 130KHz (D-SUB)		
	S/N:TY0405050		



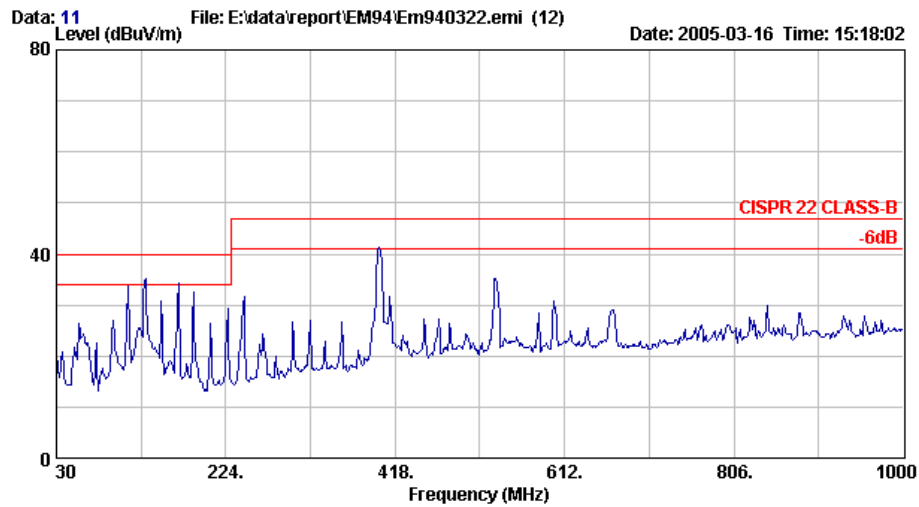
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Site no.	: AUDIX Mini Chamber	Data no.	: 1
Dis. / Ant.	: 3m CBL6112B (2818)	Ant. pol.	: VERTICAL
Limit	: CISPR 22 CLASS-B		
Env. / Ins.	: 24°C/40% E7405A	Engineer	: kent sun
EUT	: Display Color Monitor M/N:202P70		
Power Rating	: 120Vac/60Hz		
Test Mode	: 2048*1536/80Hz 130KHz (D-SUB)		
	S/N:TY0405050		



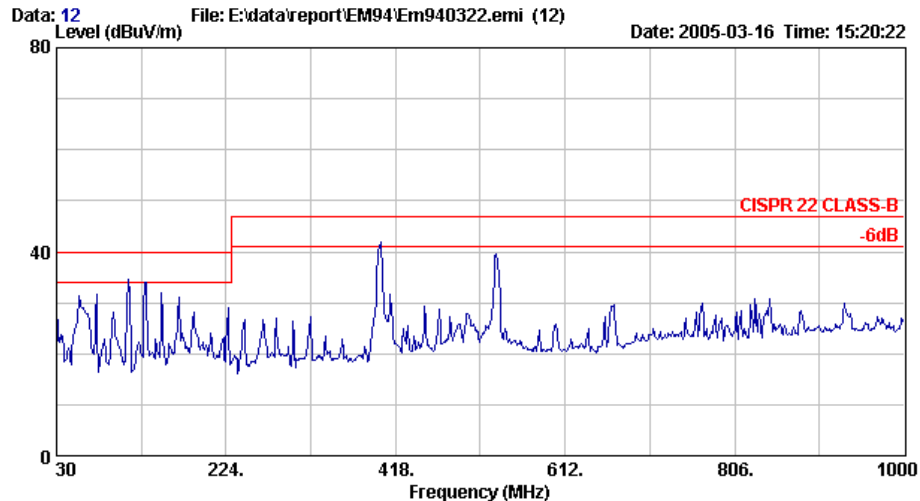
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Site no.	: AUDIX Mini Chamber	Data no.	: 11
Dis. / Ant.	: 3m CBL6112B(2818)	Ant. pol.	: HORIZONTAL
Limit	: CISPR 22 CLASS-B		
Env. / Ins.	: 24°C/40% E7405A	Engineer	: kent sun
EUT	: Display Color Monitor M/N:202P70		
Power Rating	: 120Vac/60Hz		
Test Mode	: 2048*1536/80Hz 130KHz (BNC)		
	S/N:TY0405050		



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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	: Display Color Monitor M/N:202P70		
Power Rating	: 120Vac / 60Hz		
Test Mode	: 2048*1536/80Hz 130KHz (BNC)		
	S/N:TY0405050		