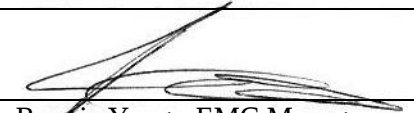




PHILIPS

Philips Electronics Industries (Taiwan) Ltd - EMC Lab. 5, Tze Chiang 1 Road, Chungli Industrial Park, Chungli, Taoyuan, Taiwan Tel.: +886-3-454-9862 Fax.: +886-3-454-9887 E-mail: ronnie.yang@philips.com	FCC Test Report	Report No.: TYR87-2015 Date : 03 July, 2002 Page : Page 1 of 32
Customer : Philips Electronics Industries Name : Mr. S.T. Huang – EE LCD Address : 5, Tze Chiang 1 Road, Zip/City : Chungli Industrial Park, Country : Chungli, Taiwan, R.O.C.		
Equipment Under Test (including peripherals) : FCC ID. : A3KM115 Model Name : 107P40 Serial Number : TY0205343 Description : 17" XGA color monitor, Max. resolution 1280x1024/85Hz		
EMC Standards : FCC Part 15 of October 01,1999 Class B ANSI C63.4-1992 Result : PASSED the limits/test-levels in the standards. Note : The results in this report apply only to the sample(s) and mode(s) tested. It is the manufacturer's responsibility to assume the continued EMC compliance of production models.		
Date of receipt of EUT : 28 Jun. 2002 Date of performance of test : 30 Jun., 2002 to 01 Jul., 2002		
 C.C. Wu - EMC Test Engineer  Ronnie Yang - EMC Manager NVLAP Signatory		

Philips Electronics Industries (Taiwan) Ltd

This report shall not be reproduce except in full, without written approval of the testing laboratory

Table of contents

1. Summary of test results.....	3
2. General information of EUT.....	4
3. Test equipment.....	5
4. Test configuration of EUT and peripherals.....	6
5. Test procedure.....	7
6. Measurement uncertainty.....	9
7. Conducted emissions test.....	10
8. Radiated emissions test.....	19
9. Photographs of test set-up.....	28
10. References.....	32

1. Summary of test results

Test	Standard	Result	Note
Emission, ANSI C63.4-1992			
Conducted emission	FCC Part 15	Passed	
Radiated emission	FCC Part 15	Passed	

Remark:

The test sample fully complies with the requirements set forth in : FCC Part 15 Class B.

2. General Information of EUT

The EUT, 17" color monitor :

Model No. : 107P40
FCC ID : A3KM115
Brand : Philips

The color monitor automatically scans horizontal frequencies between 30KHz and 92KHz , and vertical frequencies between 50Hz and 160Hz. This color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1280x1024 pixels.

The monitor has 7 factory-preset modes as indicated in the following table:

Item	Resolution	Freq. V x H	Pixel rate(Mhz)	Remark
1	640x480	75(37.500k)	31.500	VESA
2	800x600	75(46.875k)	49.500	VESA
3	800x600	85(53.674k)	56.250	VESA
4	1024x768	75(60.000k)	78.750	VESA
5	1024x768	85(68.677k)	94.500	VESA
6	1280x1024	75(79.976k)	135.000	VESA
7	1280x1024	85(91.146k)	157.500	VESA

3. Test Equipment

Test equipment used for line Conducted and Radiated emissions as following.
All equipment were calibrated according to ANSI C63.4-1992 and ISO-9000 requirement unless otherwise specified.

Traceability to R.O.C. and international standards is assured by using calibrated all equipment.

- For Conducted Emissions Test:

Test Equipment	Model No.	Serial No.	Last Calibrate	Next Calibrate
Spectrum	HP8568B	2415A00346	08/15/2001	08/15/2002
EMI Receiver	R & S ESVS30	841977/006	06/13/2002	06/13/2003
LISN	EMCO 3825/2	9311-2153	06/13/2002	06/13/2003
LISN	EMCO 3825/2	9311-2154	06/13/2002	06/13/2003
RF Cable	8-meter	N/A	05/29-2002	05/29/2003

- For Radiated Emissions Test:

Test Equipment	Model No.	Serial No.	Last Calibrate	Next Calibrate
Spectrum	HP8568B	2415A00346	08/15/2001	08/15/2002
RF Preselector	HP85685A	2901A00946	08/15/2001	08/15/2002
QP Adapter	HP85650A	2043A00366	08/15/2001	08/15/2002
EMI Receiver	HP85460A	3441A00199	09/11/2001	09/11/2002
RFI Filter Section	HP85460A	3330A00177	09/11/2001	09/11/2002
EMI Receiver	R & S ESVS30	841977/006	05/29/2002	05/29/2003
Biconical Antenna	EMCO 3110B	3222	06/04/2002	06/04/2003
Biconical Antenna	EMCO 3110B	3224	06/04/2002	06/04/2003
Log-Periodic Antenna	EMCO 3146A	1424	06/04/2002	06/04/2003
Log-Periodic Antenna	EMCO 3146A	1425	06/04/2002	06/04/2003
Turn Table	EMCO 1060	1068	05/27/2002	05/27/2003
Antenna Tower	EMCO 1050	1113	05/27/2002	05/27/2003
RF Cable	M17/75-RG214-NE	N/A	05/27/2002	05/27/2003

4. Test Configuration of EUT and Peripherals

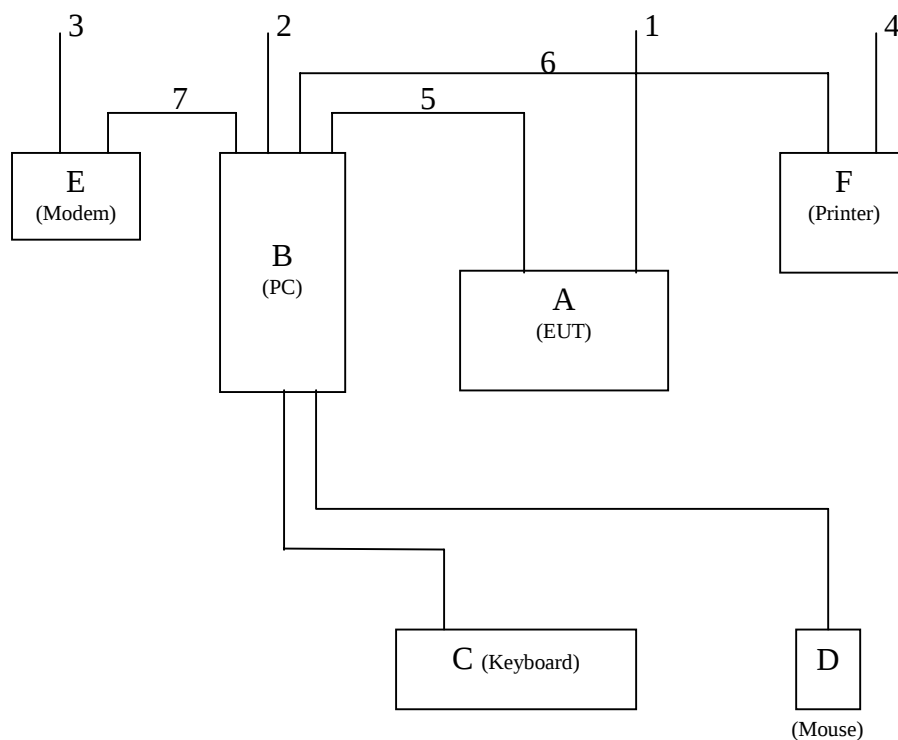
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “107P40” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	Philips 107P40	TY0205343	A3KM115	EUT
B	PC	Compaq ENC P866	5K15FXHZ2013	FCC Logo	
C	Keyboard	Compaq KB-9963	B26950GGALP13Q	FCC Logo	
D	Mouse	Compaq M-S48a		JNZ201213	
E	Modem	USRobotics 268	2680559278575	CJE-0318	
F	Printer	HP 2225C	3145S02419	DSI6XU2225	

Connected Cables

No.	Description	Manufacturer	Length	Shielded	Remark
1	Power Cord	Long Shine	1.8 meters	No	for EUT
2	Power Cord	Acer	1.8 meters	No	for PC
3	Power Cord	Aceex	2.0 meters	No	for Modem
4	Power Cord	HP	1.8 meters	No	for Printer
5	Video Cable	Long Shine	1.5 meters	Yes	
6	Printer Cable	HP	1.8 meters	Yes	
7	Modem Cable	Aceex	1.5 meters	Yes	

System Block Diagram of Test Configuration



5. Test Procedure

Test was performed by:

PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.
CONSUMER ELECTRONICS DIVISION
- EMC LAB

5, Tze Chiang 1 Road, Chungli Industrial Park
P.O. Box 123, Chungli, Taoyuan, Taiwan
Tel : 886-3-4549862 Fax : 886-3-4549887
Internet: ronnie.yang@philips.com

The test was performed in accordance with ANSI C63.4-1992, "AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF RADIO-NOISE EMISSION FROM LOW-VOLTAGE ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9KHz TO 40GHz"

Both conducted and radiated testing were performed according to the procedure in ANSI C63.4-1992. Conducted testing was performed in screen room and radiated testing was performed in open site at an antenna to EUT distance of 3-meter on horizontal and vertical polarization.

First, pre-scan all modes in screen room then select **2 higher modes** (worst case) were tested and reported.

The line conductive interference was tested with 110VAC and 220VAC receptively.

Unshielded power cord was used during test.
D-sub I/F cable with two ferrite cores was used.

Tested and reported modes as following:

Test Item	File No.	Resolution	Frequencies	I/F Cable
Conducted	EMI02-028-C	1280x1024	91.1KHz/85Hz	D-sub
	EMI02-028-C	1024x768	68.7KHz/85Hz	D-sub
Radiated	EMI02-028-R	1280x1024	91.1KHz/85Hz	D-sub
	EMI02-028-R	1024x768	68.7KHz/85Hz	D-sub

Set up the EUT and all peripherals as chapter 6 of ANSI C63.4-1992 for AC power line conducted emissions testing and radiated emissions testing.

Turn on the power of EUT and all peripherals, select an appropriate displaying mode using the "setup" software. Then run an EMI test program "HTEST.EMI" as a basic software to execute the EUT operating under test. A pattern of scrolling H's should be displayed on the monitor.

Step 1 : Run the “HTEST.EMI” on personal computer then sends “H” character to monitor continuously until full screen.

Step 2 : Personal computer sends a complete line of continuously repeating “H” to HP 2225C printer.

Step 3 : Personal computer sends a file of “H” pattern to floppy disk then read a file of “H” pattern from floppy disk.

Step 4 : Personal computer sends a file of “H” pattern to hard disk then read a file of “H” pattern from hard disk.

Step 5 : Personal computer sends a file of “H” pattern to USRobotics 268 modem.

Step 6 : Return to step 1

All data in this report are “PEAK” value within 15dB margin unless otherwise noted.

6. Measurement Uncertainty

The system uncertainty listed below are based on the instrument absolute specifications, and do not include uncertainties of the equipment under test.

Uncertainty for Radiated Emissions Test at 3 meters Test Site.

Source of Measurement Uncertainty	Uncertainty/dB
Antenna factor calibration	+/-2.0
Cable loss calibration	+/-0.5
Receiver specification	+/-1.0
Antenna position ver.	+/-2.0
Measurement distance ver.	+/-0.5
Site imperfections	+/-2.0
Mismatch	+/-1.1
System repeatability	+/-0.5

Uncertainty for Conducted Emissions Test at 3 meters Test Site.

Source of Measurement Uncertainty	Uncertainty/dB
LISN specification	+/-2.0
Cable loss calibration	+/-0.5
Receiver specification	+/-1.0
Pulse limiter Spec.	+/-0.3
Measurement distance ver.	+/-0.5
Site imperfections	+/-2.0
System repeatability	+/-0.5

7. Conducted Emissions Test

Conducted Emissions

FCC Part 15

Operating conditions EUT:

EUT powered on with scrolling “H” pattern.

Limits:

Frequency range (MHz)	Class A (dBuv) QP	Class B (dBuv) QP
0.45 – 1.705	60.0	48.0
1.705 – 30.0	69.5	48.0

Test Result :

Passed FCC Class B Limits

Option:

The following option may be employed if the conducted emissions exceed the limits, as appropriate, when measured using instrumentation employing a quasi-peak detector function: If the level of the emission measured using the quasi-peak instrumentation is 6dB, or, more higher than the level of the same emission measured with instrumentation having an average detector and a 9KHz minimum bandwidth, that emission is considered broadband and the level obtained with the quasi-peak detector may be reduced by 13dB for comparison to the limits.

Remark:

Date of Test

: 30 Jun., 2002 to 01 Jul., 2002

Test Engineer

: C.C.Wu

For detail measurement results see next pages.

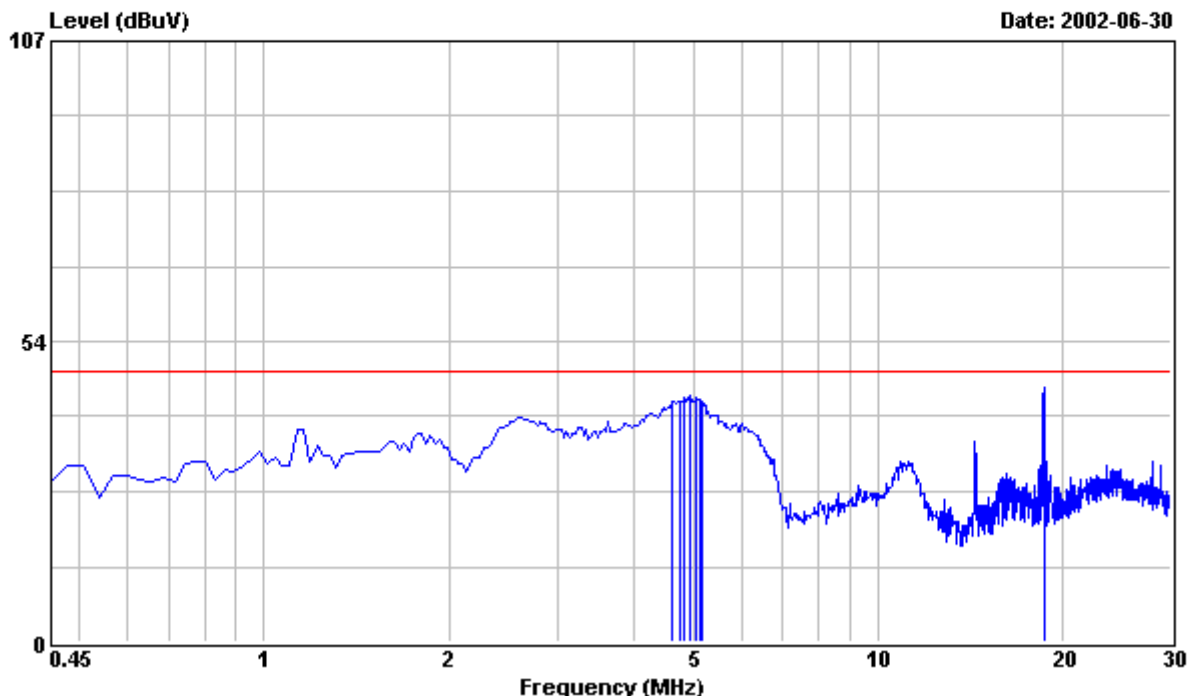


PHILIPS

Philips Electronics Industries (Taiwan) ., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 1

File#: C:\Program Files\em3\EMI02-028-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 16 "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit * dBuV	LINE
4.617	42.30	48.00	0.34	42.64	-5.36	
4.764	42.60	48.00	0.32	42.92	-5.08	
4.823	43.10	48.00	0.32	43.42	-4.58	
4.942	43.61	48.00	0.30	43.91	-4.09	
5.060	43.10	48.00	0.31	43.41	-4.59	
5.119	42.70	48.00	0.31	43.01	-4.99	
5.178	42.50	48.00	0.32	42.82	-5.18	
18.653	44.50	48.00	0.78	45.28	-2.72	

Remarks: 1. All Readings are Peak .
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

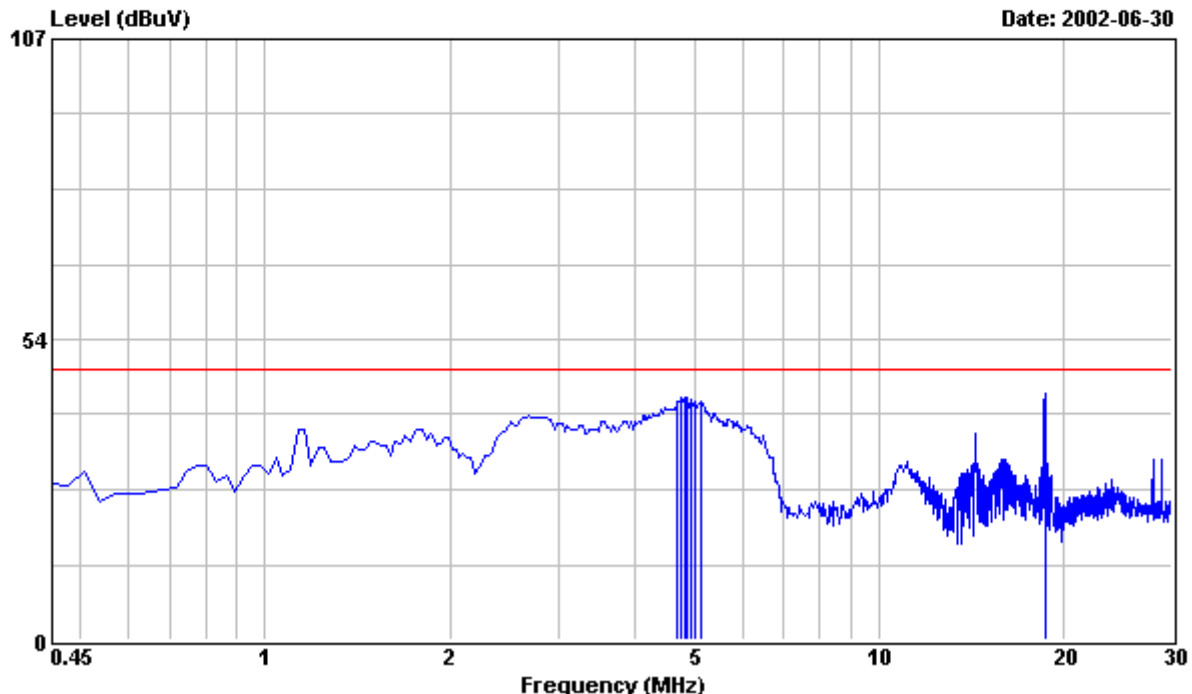


PHILIPS

Philips Electronics Industries (Taiwan) ., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 2

File#: C:\Program Files\em3\EMI02-028-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 16 "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ NEUTRAL
4.705	42.20	48.00	0.33	42.53	-5.47	
4.764	43.00	48.00	0.32	43.32	-4.68	
4.823	43.00	48.00	0.32	43.32	-4.68	
4.883	43.00	48.00	0.31	43.31	-4.69	
4.942	42.61	48.00	0.30	42.91	-5.09	
5.001	42.20	48.00	0.30	42.50	-5.50	
5.119	42.00	48.00	0.31	42.31	-5.69	
18.653	43.10	48.00	0.85	43.95	-4.05	

Remarks: 1. All Readings are Peak .
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

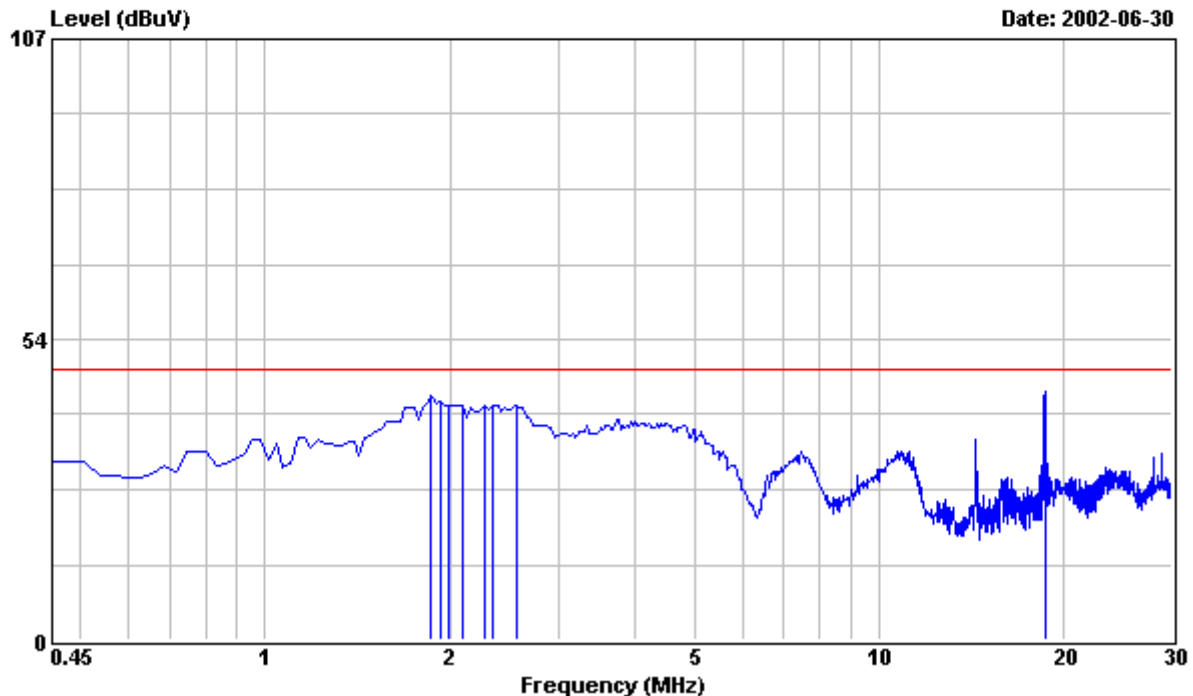


PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 3

File#: C:\Program Files\em3\EMI02-028-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 16 "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit * LINE dBuV
1.868	43.10	48.00	0.40	43.50	-4.50
1.928	42.00	48.00	0.40	42.40	-5.60
1.987	41.40	48.00	0.40	41.80	-6.20
2.105	41.50	48.00	0.40	41.90	-6.10
2.282	41.50	48.00	0.40	41.90	-6.10
2.341	41.30	48.00	0.40	41.70	-6.30
2.578	41.40	48.00	0.40	41.80	-6.20
18.653	43.40	48.00	0.78	44.18	-3.82

Remarks: 1. All Readings are Peak .
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

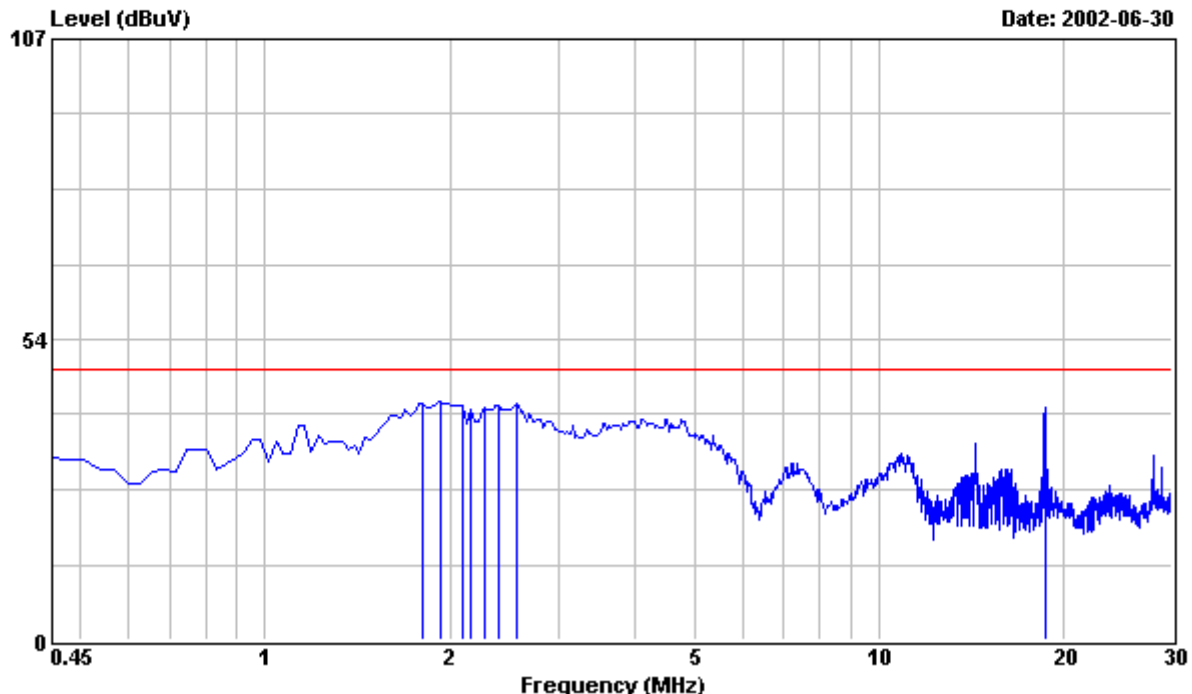


PHILIPS

Philips Electronics Industries (Taiwan) ., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 4

File#: C:\Program Files\em3\EMI02-028-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 16 "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ NEUTRAL
1.809	41.80	48.00	0.40	42.20	-5.80	
1.928	41.90	48.00	0.40	42.30	-5.70	
2.105	41.50	48.00	0.40	41.90	-6.10	
2.164	40.70	48.00	0.40	41.10	-6.90	
2.282	40.90	48.00	0.40	41.30	-6.70	
2.400	41.20	48.00	0.40	41.60	-6.40	
2.578	41.70	48.00	0.40	42.10	-5.90	
18.653	40.60	48.00	0.85	41.45	-6.55	

Remarks: 1. All Readings are Peak .
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

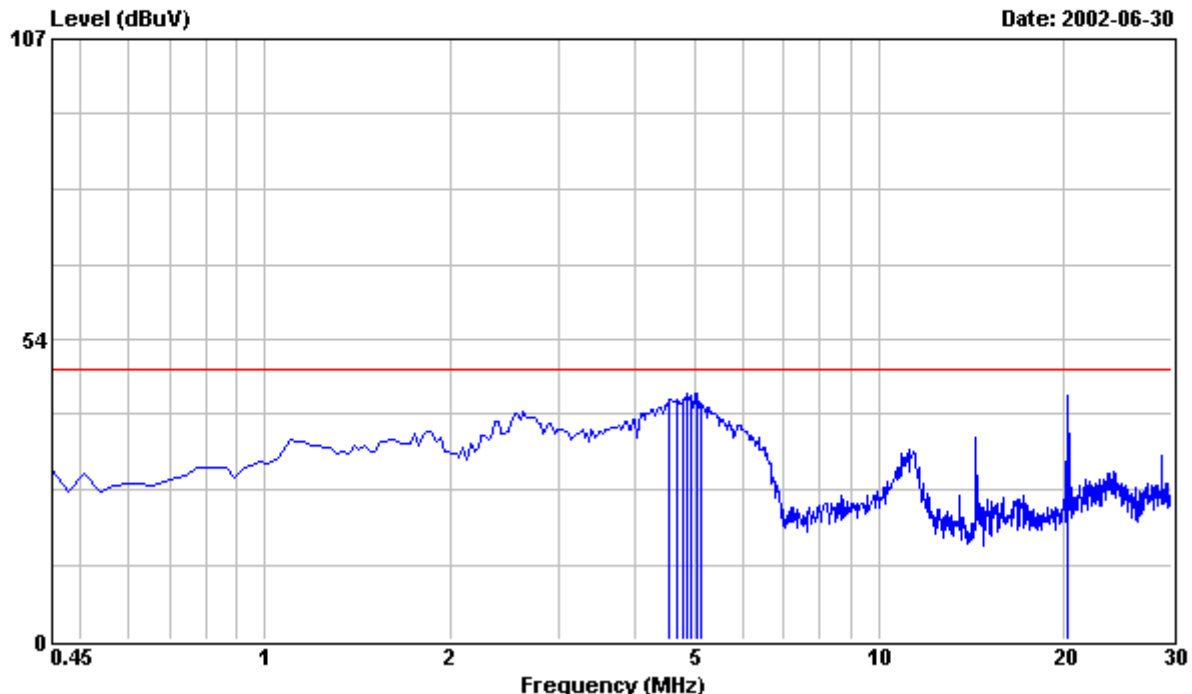


PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 5

File#: C:\Program Files\em3\EMI02-028-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ LINE
4.557	42.30	48.00	0.34	42.64	-5.36	
4.676	42.60	48.00	0.33	42.93	-5.07	
4.794	42.60	48.00	0.32	42.92	-5.08	
4.883	43.50	48.00	0.31	43.81	-4.19	
4.942	43.11	48.00	0.30	43.41	-4.59	
5.060	43.40	48.00	0.31	43.71	-4.29	
5.119	41.80	48.00	0.31	42.11	-5.89	
20.367	42.60	48.00	0.81	43.41	-4.59	

Remarks: 1. All Readings are Peak .
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

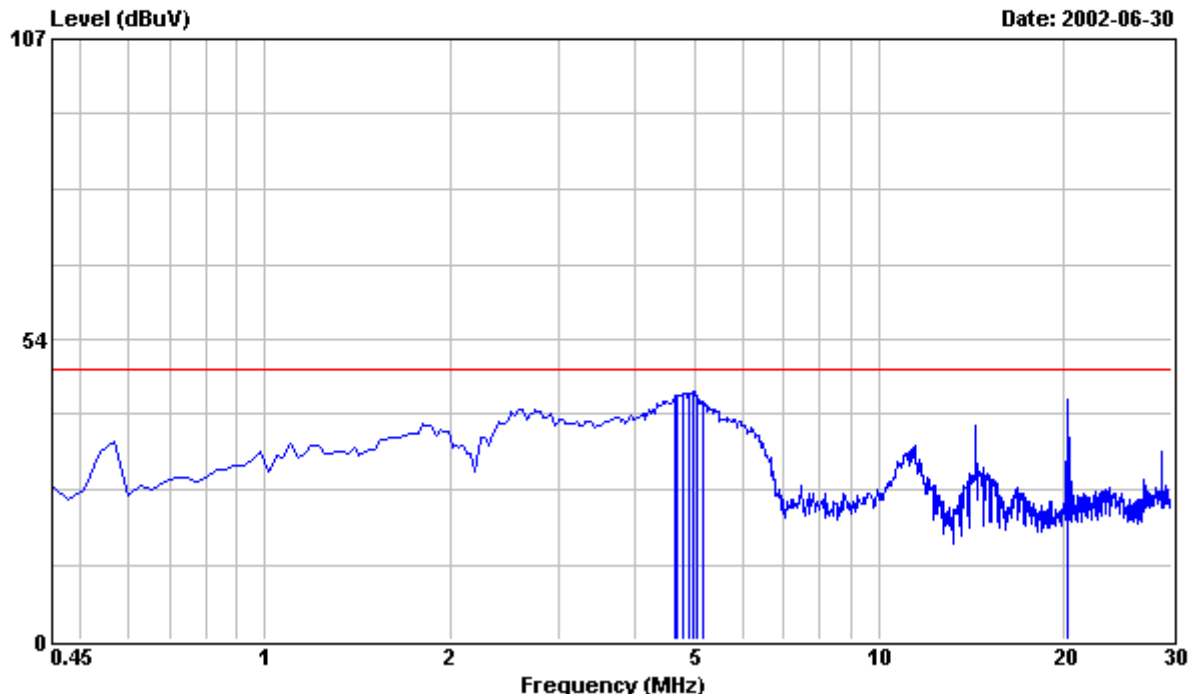


PHILIPS

Philips Electronics Industries (Taiwan) ., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 6

File#: C:\Program Files\em3\EMI02-028-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ NEUTRAL
4.646	43.20	48.00	0.33	43.53	-4.47	
4.705	43.30	48.00	0.33	43.63	-4.37	
4.794	43.50	48.00	0.32	43.82	-4.18	
4.912	43.50	48.00	0.31	43.81	-4.19	
4.971	43.80	48.00	0.30	44.10	-3.90	
5.060	43.10	48.00	0.31	43.41	-4.59	
5.178	42.30	48.00	0.32	42.62	-5.38	
20.367	42.00	48.00	0.91	42.91	-5.09	

Remarks: 1. All Readings are Peak .
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

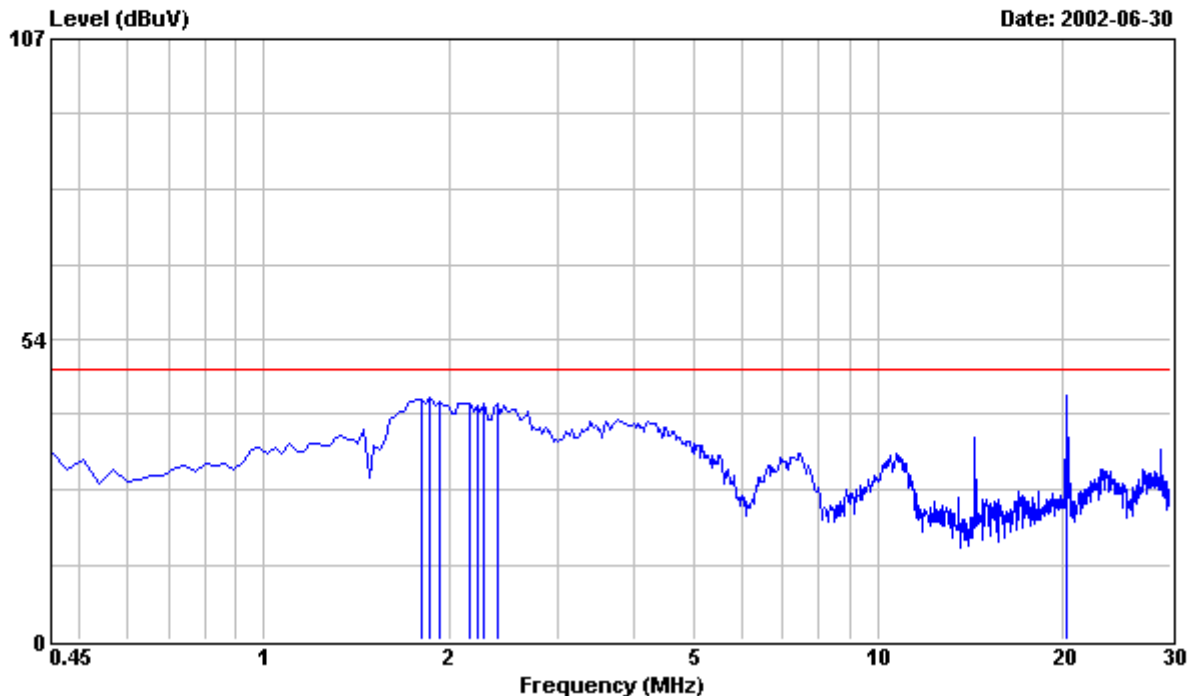


PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 7

File#: C:\Program Files\em3\EMI02-028-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit * LINE dBuV
1.809	42.40	48.00	0.40	42.80	-5.20
1.868	42.60	48.00	0.40	43.00	-5.00
1.928	42.00	48.00	0.40	42.40	-5.60
2.164	41.70	48.00	0.40	42.10	-5.90
2.223	41.50	48.00	0.40	41.90	-6.10
2.282	41.60	48.00	0.40	42.00	-6.00
2.400	41.60	48.00	0.40	42.00	-6.00
20.367	42.80	48.00	0.81	43.61	-4.39

Remarks: 1. All Readings are Peak .
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

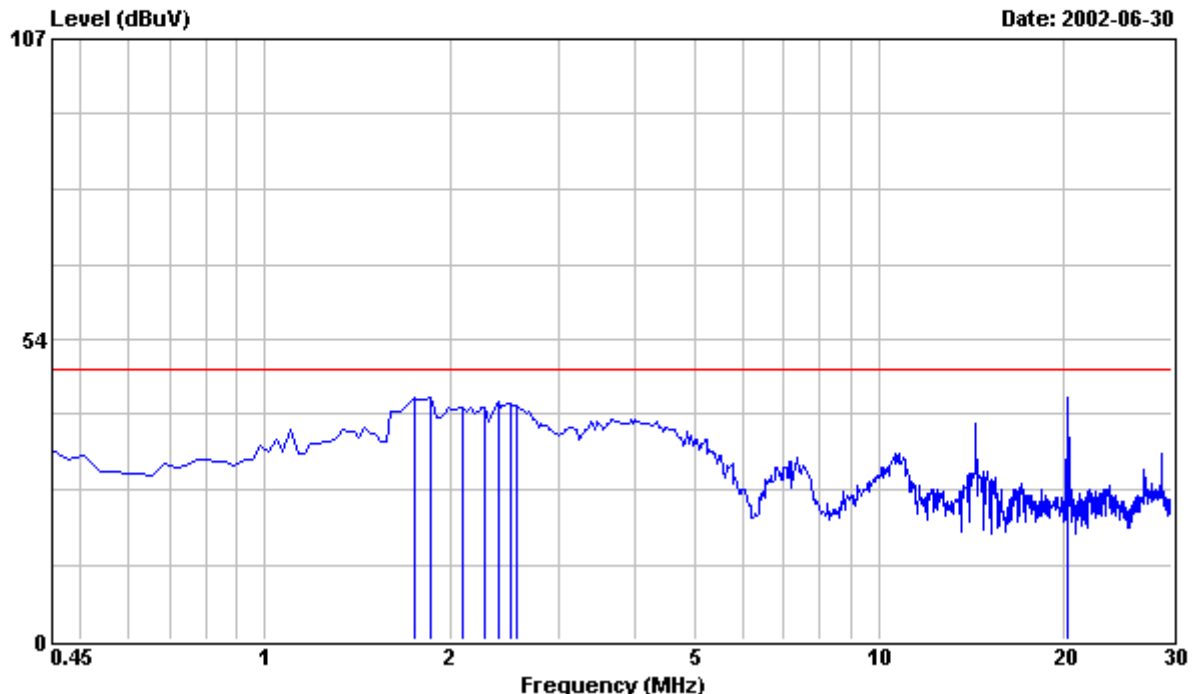


PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 8

File#: C:\Program Files\em3\EMI02-028-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ NEUTRAL
1.750	42.70	48.00	0.40	43.10	-4.90	
1.868	42.70	48.00	0.40	43.10	-4.90	
2.105	41.00	48.00	0.40	41.40	-6.60	
2.282	41.10	48.00	0.40	41.50	-6.50	
2.400	42.10	48.00	0.40	42.50	-5.50	
2.519	41.70	48.00	0.40	42.10	-5.90	
2.578	41.40	48.00	0.40	41.80	-6.20	
20.367	42.30	48.00	0.91	43.21	-4.79	

Remarks: 1. All Readings are Peak .
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

8. .Radiated Emission Test

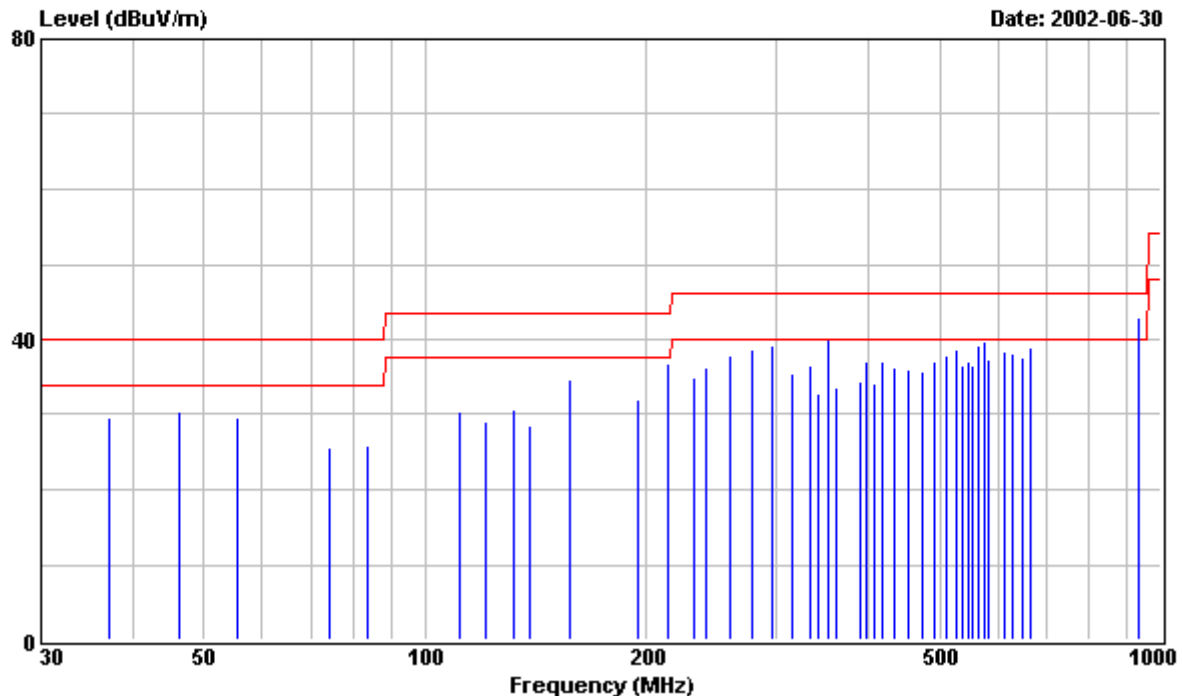
Radiated Emissions FCC Part 15		
Operating conditions EUT: EUT powered on with scrolling “H” pattern.		
Limits:		
Frequency range (MHz)	Class A at 10m (dBuv) QP	Class B at 3m (dBuv) QP
30.0 – 88.0	39.0	40.0
88.0 – 216.0	43.5	43.5
216.0 – 960.0	46.5	46.0
960.0 – 1000.0	49.5	54.0
Above 1000.0	49.5	54.0 Average
Test Result : Passed FCC Class B Limits		
Remark: 		
Date of Test Test Engineer	: 30 Jun., 2002 to 01 Jul., 2002 : C.C.Wu	
For detail measurement results see next pages.		



PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 1 File#: C:\Program Files\em3\EMI02-028-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 16 "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/2OE/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	HORIZONTAL dBuV/m	dBuV/m
37.090	16.70	---	40.00	12.87	29.57	-10.43
46.340	19.00	---	40.00	11.31	30.31	-9.69
55.610	19.40	---	40.00	10.28	29.68	-10.32
74.120	15.50	---	40.00	10.17	25.67	-14.33
83.420	15.20	---	40.00	10.58	25.78	-14.22
111.220	18.50	---	43.50	11.98	30.48	-13.02
120.480	16.80	---	43.50	12.39	29.19	-14.31
132.070	17.80	---	43.50	12.78	30.58	-12.92
138.980	15.50	---	43.50	13.03	28.53	-14.97
157.520	21.10	---	43.50	13.63	34.73	-8.77
194.600	16.20	---	43.50	15.79	31.99	-11.51
213.120	19.30	---	43.50	17.48	36.78	-6.72

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
					HORIZONTAL	
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m
231.650	15.80	---	46.00	19.06	34.86	-11.14
240.930	16.40	---	46.00	19.78	36.18	-9.82
259.450	16.90	---	46.00	21.02	37.92	-8.08
277.990	16.50	---	46.00	22.06	38.56	-7.44
296.530	16.10	---	46.00	22.99	39.09	-6.91
315.040	18.60	---	46.00	16.80	35.40	-10.60
333.560	19.30	---	46.00	17.18	36.48	-9.52
342.840	15.40	---	46.00	17.37	32.77	-13.23
352.120	---	20.65	46.00	17.53	38.18	-7.82
352.120	22.50	---	46.00	17.53	40.03	-5.97
361.370	15.80	---	46.00	17.72	33.52	-12.48
389.160	16.10	---	46.00	18.21	34.31	-11.69
398.450	18.80	---	46.00	18.38	37.18	-8.82
407.710	15.60	---	46.00	18.50	34.10	-11.90
416.960	18.30	---	46.00	18.65	36.95	-9.05
435.490	17.40	---	46.00	18.90	36.30	-9.70
454.040	16.80	---	46.00	19.14	35.94	-10.06
472.560	16.30	---	46.00	19.37	35.67	-10.33
491.090	17.40	---	46.00	19.60	37.00	-9.00
509.610	17.90	---	46.00	19.87	37.77	-8.23
528.130	18.40	---	46.00	20.16	38.56	-7.44
537.430	16.20	---	46.00	20.31	36.51	-9.49
546.680	16.50	---	46.00	20.45	36.95	-9.05
555.950	16.00	---	46.00	20.59	36.59	-9.41
565.210	18.50	---	46.00	20.71	39.21	-6.79
574.490	18.80	---	46.00	20.85	39.65	-6.35
583.760	16.30	---	46.00	20.97	37.27	-8.73
611.550	16.80	---	46.00	21.51	38.31	-7.69
630.060	16.20	---	46.00	21.93	38.13	-7.87
648.590	15.30	---	46.00	22.40	37.70	-8.30
667.140	16.20	---	46.00	22.82	39.02	-6.98
933.440	---	13.30	46.00	26.73	40.03	-5.97
933.440	16.30	---	46.00	26.73	43.03	-2.97

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu

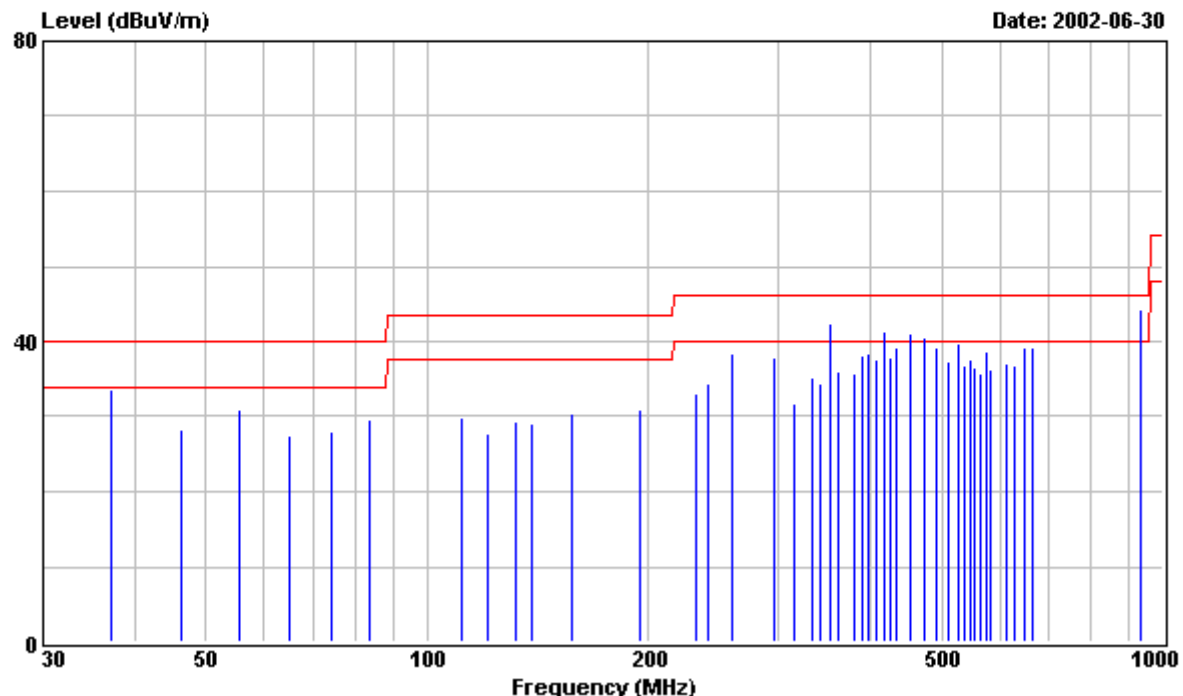


PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 2

File#: C:\Program Files\es\EMI02-028-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 16 "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m
37.090	20.80	---	40.00	12.87	33.67	-6.33
46.340	17.00	---	40.00	11.31	28.31	-11.69
55.610	20.70	---	40.00	10.28	30.98	-9.02
64.870	17.40	---	40.00	9.95	27.35	-12.65
74.120	17.90	---	40.00	10.17	28.07	-11.93
83.420	19.00	---	40.00	10.58	29.58	-10.42
111.220	17.80	---	43.50	11.98	29.78	-13.72
120.480	15.30	---	43.50	12.39	27.69	-15.81
132.070	16.50	---	43.50	12.78	29.28	-14.22
138.980	16.00	---	43.50	13.03	29.03	-14.47
157.520	16.80	---	43.50	13.63	30.43	-13.07
194.600	15.10	---	43.50	15.79	30.89	-12.61

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m
231.650	14.10	---	46.00	19.06	33.16	-12.84
240.930	14.70	---	46.00	19.78	34.48	-11.52
259.450	17.30	---	46.00	21.02	38.32	-7.68
296.530	14.90	---	46.00	22.99	37.89	-8.11
315.040	15.00	---	46.00	16.80	31.80	-14.20
333.560	18.00	---	46.00	17.18	35.18	-10.82
342.840	17.00	---	46.00	17.37	34.37	-11.63
352.120	24.80	---	46.00	17.53	42.33	-3.67
352.120	---	22.97	46.00	17.53	40.50	-5.50
361.370	18.40	---	46.00	17.72	36.12	-9.88
379.910	17.80	---	46.00	18.05	35.85	-10.15
389.160	19.90	---	46.00	18.21	38.11	-7.89
398.450	20.10	---	46.00	18.38	38.48	-7.52
407.710	19.20	---	46.00	18.50	37.70	-8.30
416.960	---	21.25	46.00	18.65	39.90	-6.10
416.960	22.80	---	46.00	18.65	41.45	-4.55
426.230	19.10	---	46.00	18.77	37.87	-8.13
435.490	20.30	---	46.00	18.90	39.20	-6.80
454.040	21.80	---	46.00	19.14	40.94	-5.06
454.049	---	19.90	46.00	19.14	39.04	-6.96
472.560	21.10	---	46.00	19.37	40.47	-5.53
472.560	---	19.22	46.00	19.37	38.59	-7.41
491.090	19.70	---	46.00	19.60	39.30	-6.70
509.610	17.50	---	46.00	19.87	37.37	-8.63
528.130	19.50	---	46.00	20.16	39.66	-6.34
537.430	16.50	---	46.00	20.31	36.81	-9.19
546.680	17.10	---	46.00	20.45	37.55	-8.45
555.950	15.90	---	46.00	20.59	36.49	-9.51
565.210	15.10	---	46.00	20.71	35.81	-10.19
574.490	17.90	---	46.00	20.85	38.75	-7.25
583.760	15.20	---	46.00	20.97	36.17	-9.83
611.550	15.50	---	46.00	21.51	37.01	-8.99
630.060	14.90	---	46.00	21.93	36.83	-9.17
648.600	16.70	---	46.00	22.40	39.10	-6.90
667.140	16.30	---	46.00	22.82	39.12	-6.88
933.440	---	13.15	46.00	26.73	39.88	-6.12
933.440	17.60	---	46.00	26.73	44.33	-1.67

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu

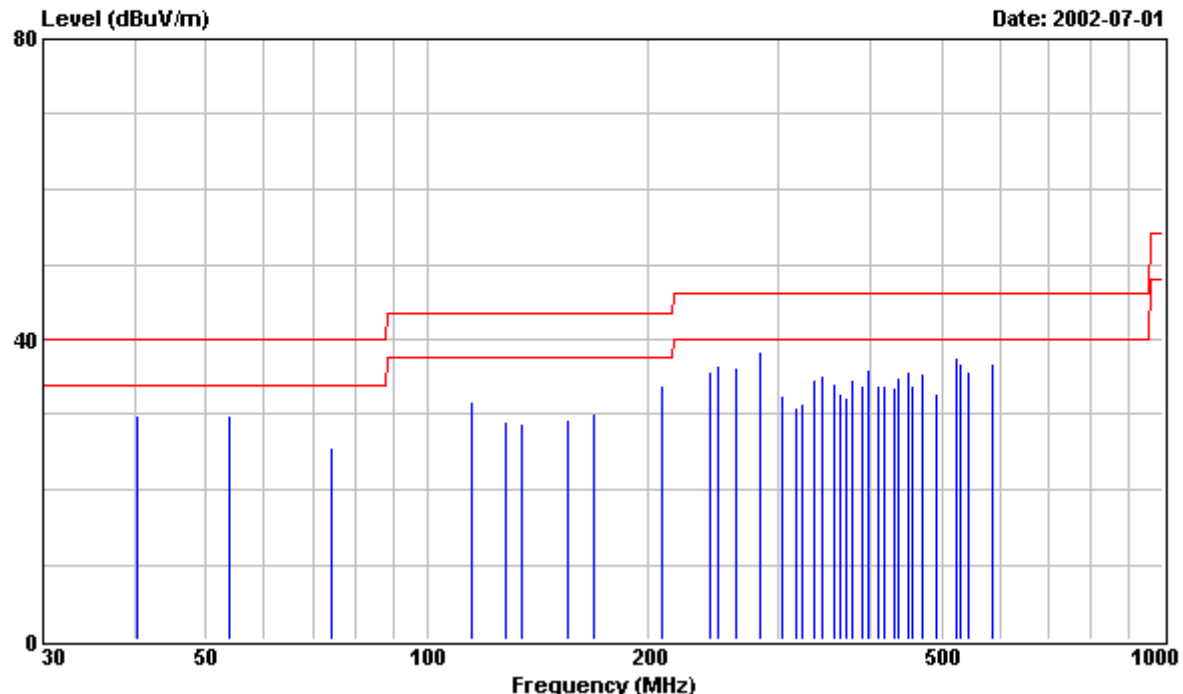


PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 3

File#: C:\Program Files\em3\EMI02-028-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/2OE/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	HORIZONTAL dBuV/m	dBuV/m
40.410	17.70	---	40.00	12.05	29.75	-10.25
53.870	19.50	---	40.00	10.44	29.94	-10.06
74.080	15.50	---	40.00	10.17	25.67	-14.33
114.490	19.70	---	43.50	12.14	31.84	-11.66
127.960	16.40	---	43.50	12.62	29.02	-14.48
134.690	16.00	---	43.50	12.87	28.87	-14.63
154.890	15.90	---	43.50	13.55	29.45	-14.05
168.360	16.10	---	43.50	13.93	30.03	-13.47
208.770	16.80	---	43.50	17.09	33.89	-9.61
242.420	15.90	---	46.00	19.91	35.81	-10.19
249.170	16.00	---	46.00	20.43	36.43	-9.57
262.630	15.00	---	46.00	21.23	36.23	-9.77

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
					HORIZONTAL	
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m
282.820	16.00	---	46.00	22.32	38.32	-7.68
303.030	15.90	---	46.00	16.55	32.45	-13.55
316.500	14.10	---	46.00	16.83	30.93	-15.07
323.240	14.50	---	46.00	16.97	31.47	-14.53
336.700	17.30	---	46.00	17.25	34.55	-11.45
343.430	17.90	---	46.00	17.37	35.27	-10.73
356.900	16.40	---	46.00	17.63	34.03	-11.97
363.640	14.90	---	46.00	17.77	32.67	-13.33
370.370	14.40	---	46.00	17.88	32.28	-13.72
377.100	16.70	---	46.00	18.00	34.70	-11.30
390.570	15.70	---	46.00	18.24	33.94	-12.06
397.300	17.60	---	46.00	18.35	35.95	-10.05
410.760	15.40	---	46.00	18.54	33.94	-12.06
417.500	15.20	---	46.00	18.65	33.85	-12.15
430.960	14.70	---	46.00	18.83	33.53	-12.47
437.710	15.90	---	46.00	18.92	34.82	-11.18
451.160	16.70	---	46.00	19.10	35.80	-10.20
457.890	14.60	---	46.00	19.18	33.78	-12.22
471.370	16.00	---	46.00	19.37	35.37	-10.63
491.570	13.10	---	46.00	19.60	32.70	-13.30
525.240	17.40	---	46.00	20.10	37.50	-8.50
531.970	16.60	---	46.00	20.22	36.82	-9.18
545.440	15.30	---	46.00	20.42	35.72	-10.28
585.850	15.70	---	46.00	21.03	36.73	-9.27

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu

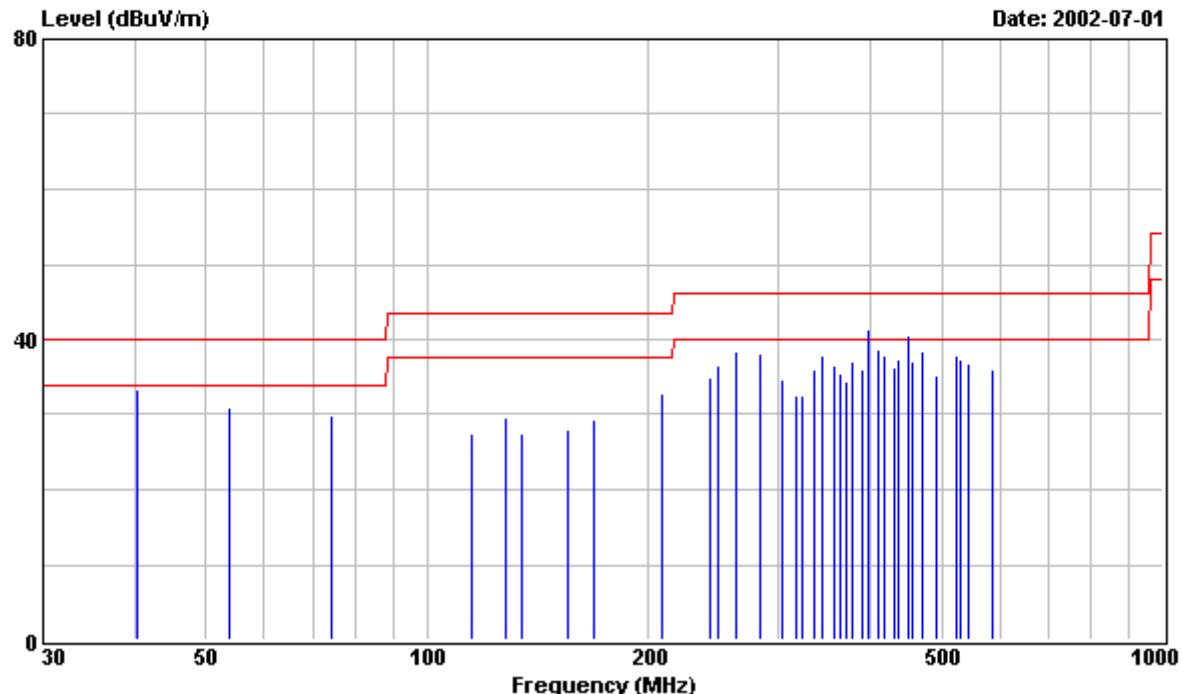


PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 4

File#: C:\Program Files\em3\EMI02-028-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 107P40 Serial No:TY0205343
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL MIT TUBE,RUN IBM V1.8
: FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: S3 Trio3D/2X VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m
40.410	21.30	---	40.00	12.05	33.35	-6.65
53.870	20.50	---	40.00	10.44	30.94	-9.06
74.080	19.60	---	40.00	10.17	29.77	-10.23
114.490	15.29	---	43.50	12.14	27.43	-16.07
127.960	17.10	---	43.50	12.62	29.72	-13.78
134.690	14.50	---	43.50	12.87	27.37	-16.13
154.890	14.40	---	43.50	13.55	27.95	-15.55
168.360	15.40	---	43.50	13.93	29.33	-14.17
208.770	15.70	---	43.50	17.09	32.79	-10.71
242.420	15.00	---	46.00	19.91	34.91	-11.09
249.170	16.00	---	46.00	20.43	36.43	-9.57
262.630	17.20	---	46.00	21.23	38.43	-7.57

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
					VERTICAL	
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m
282.820	15.70	---	46.00	22.32	38.02	-7.98
303.030	18.20	---	46.00	16.55	34.75	-11.25
316.500	15.70	---	46.00	16.83	32.53	-13.47
323.240	15.60	---	46.00	16.97	32.57	-13.43
336.700	18.70	---	46.00	17.25	35.95	-10.05
343.430	20.40	---	46.00	17.37	37.77	-8.23
356.900	18.90	---	46.00	17.63	36.53	-9.47
363.640	17.70	---	46.00	17.77	35.47	-10.53
370.370	16.40	---	46.00	17.88	34.28	-11.72
377.100	19.10	---	46.00	18.00	37.10	-8.90
390.570	17.80	---	46.00	18.24	36.04	-9.96
397.300	23.10	---	46.00	18.35	41.45	-4.55
397.300	---	22.03	46.00	18.35	40.38	-5.62
410.760	20.20	---	46.00	18.54	38.74	-7.26
417.500	19.30	---	46.00	18.65	37.95	-8.05
430.960	17.40	---	46.00	18.83	36.23	-9.77
437.710	18.30	---	46.00	18.92	37.22	-8.78
451.160	21.40	---	46.00	19.10	40.50	-5.50
451.160	---	19.76	46.00	19.10	38.86	-7.14
457.890	17.90	---	46.00	19.18	37.08	-8.92
471.370	19.10	---	46.00	19.37	38.47	-7.53
491.570	15.70	---	46.00	19.60	35.30	-10.70
525.240	17.80	---	46.00	20.10	37.90	-8.10
531.970	17.00	---	46.00	20.22	37.22	-8.78
545.440	16.40	---	46.00	20.42	36.82	-9.18
585.850	15.10	---	46.00	21.03	36.13	-9.87

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu