



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.: TYR87-2038 Date : 21 January, 2003 Page : Page 1 of 36		
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. : A3KM119 Model Name : 107E51 Serial Number : TY0212759 Description : 17" XGA color monitor, Max. resolution 1280x1024/60Hz				
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 : 03 Dec. 2002 Date of performance of test : 06 Jan., 2003 to 11 Jan., 2003				
<table border="0"><tr><td style="text-align: center;"> C.C. Wu - EMC Test Engineer</td><td style="text-align: center;"> Ronnie Yang - EMC Manager NVLAP Signatory</td></tr></table>			 C.C. Wu - EMC Test Engineer	 Ronnie Yang - EMC Manager NVLAP Signatory
 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.....	32
10. References.....	36

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. : 107E51
 FCC ID : A3KM119
 Brand : PHILIPS

The color monitor automatically scans horizontal frequencies between 30KHz and 70KHz , 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 8 factory-preset modes as indicated in the following table:

	Resolution	H. freq.	V. freq.	H.	V.
1.	720 x 400	31.5 KHz	70Hz (VGA)	-	+
2.	640 x 480	31.47 KHz	60Hz (VGA)	-	-
3.	640 x 480	43.3 KHz	85Hz (VESA)	-	-
4.	800 x 600	46.9 KHz	75Hz (VESA)	+	+
5.	800 x 600	53.674KHz	85Hz (VESA)	+	+
6.	1280 x 960	60 KHz	60 Hz	+	+
7.	1024 x 768	68.7 KHz	85Hz (VESA)	+	+
8.	1280 x 1024	64.0 KHz	60Hz (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	2928A04640	06/27/2002	06/27/2003
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	2928A04640	06/27/2002	06/27/2003
RF Preselector	HP85685A	2620A00338	06/27/2002	06/27/2003
QP Adapter	HP85650A	2811A01324	06/27/2002	06/27/2003
EMI Receiver	R & S ESVS30	841977/006	06/13/2002	06/13/2003
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

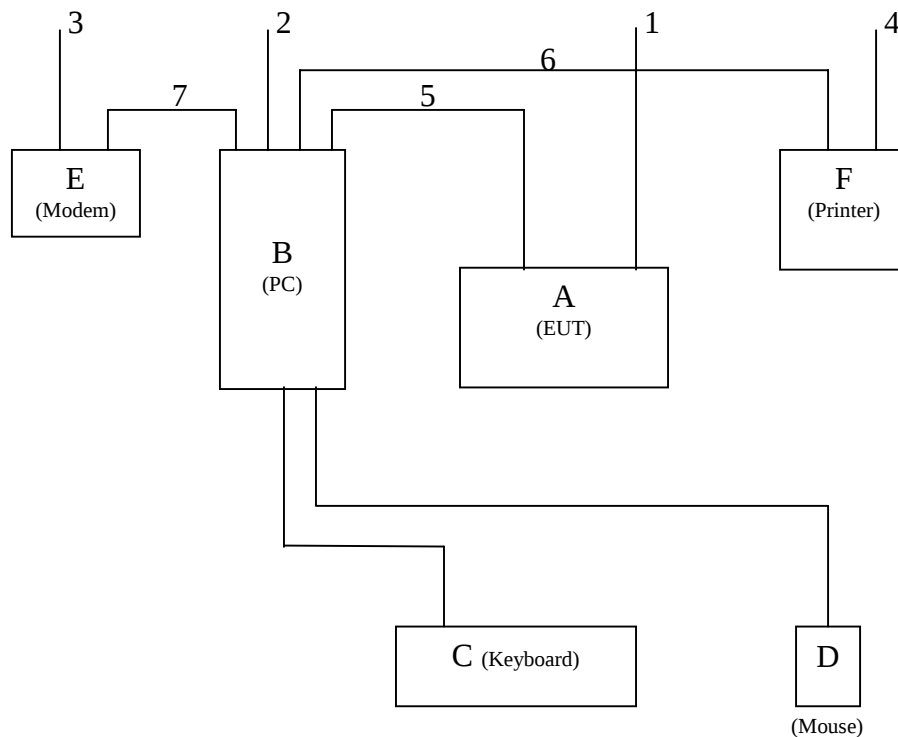
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “107E51” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	Philips 107E51	TY0212759	A3KM119	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	Hayes 231AA	A22231081770	BFJ9D9308US	
F	Printer	HP 2225C	2934S55406	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	EMI03-001-C	1024x768	68.7KHz/85Hz	D-sub
		1280x1024	64KHz/60Hz	D-sub
Radiated	EMI03-001-R	1024x768	68.7KHz/85Hz	D-sub
		1280x1024	64KHz/60Hz	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

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	: 06 Jan., 2003 to 11 Jan., 2003	
Test Engineer	: C.C.Wu	
For detail measurement results see next pages.		

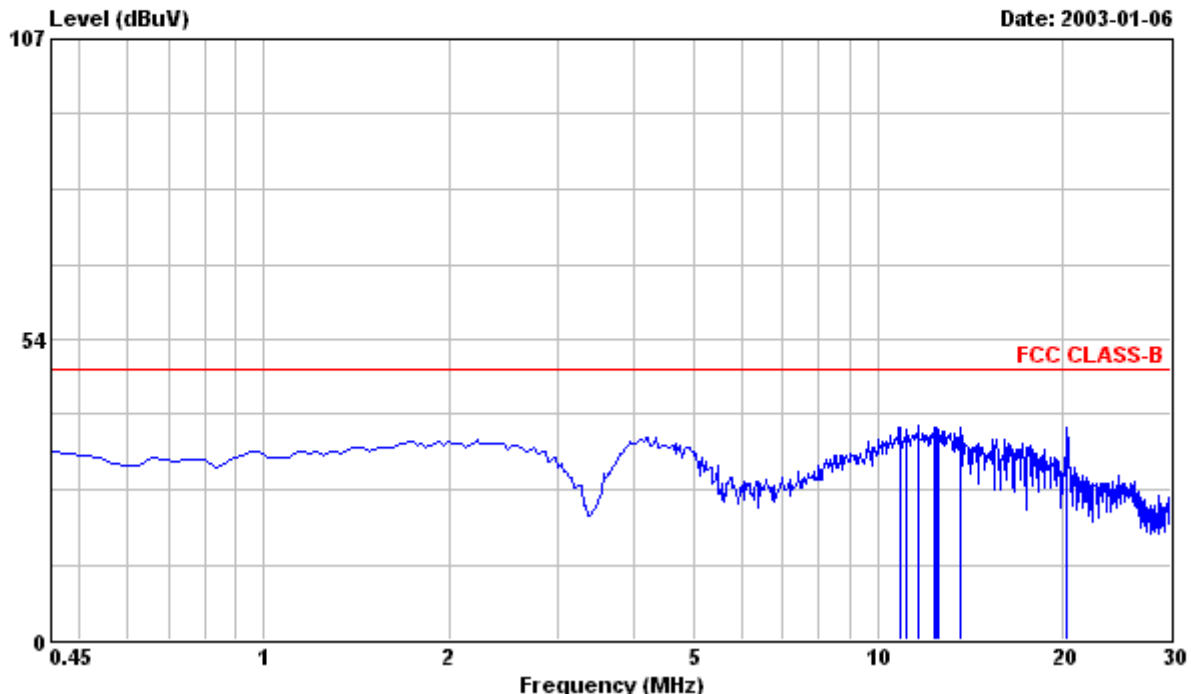


PHILIPS

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\EMI03-001-C(Philips 107E51).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
10.852	37.10	---	48.00	0.62	37.72	-10.28	Peak
11.147	36.70	---	48.00	0.63	37.33	-10.67	Peak
11.620	37.50	---	48.00	0.64	38.14	-9.86	Peak
12.388	37.10	---	48.00	0.65	37.75	-10.25	Peak
12.447	37.10	---	48.00	0.65	37.75	-10.25	Peak
12.506	36.70	---	48.00	0.66	37.36	-10.64	Peak
13.629	37.00	---	48.00	0.68	37.68	-10.32	Peak
20.367	36.90	---	48.00	0.81	37.71	-10.29	Peak

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

Tested by : C.C.Wu

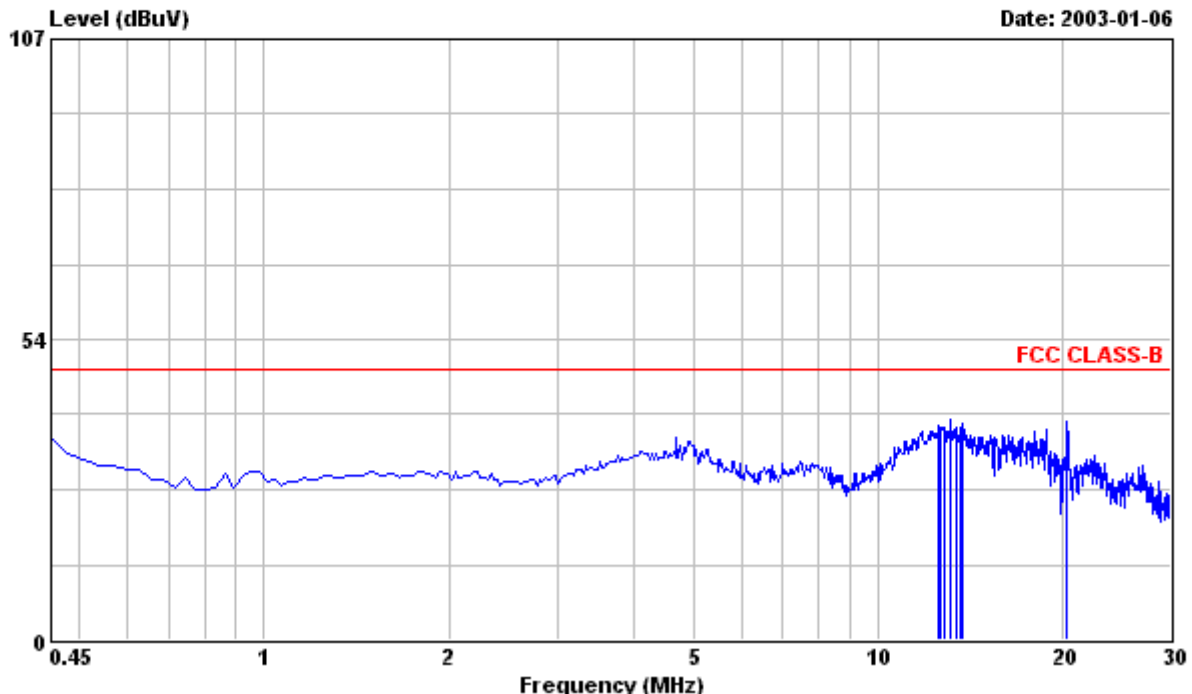


PHILIPS

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\EMI03-001-C(Philips 107E51).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
12.566	37.40	---	48.00	0.66	38.06	-9.94	Peak
12.684	37.00	---	48.00	0.66	37.66	-10.34	Peak
12.802	37.00	---	48.00	0.66	37.66	-10.34	Peak
13.157	38.70	---	48.00	0.67	39.37	-8.63	Peak
13.393	37.30	---	48.00	0.67	37.97	-10.03	Peak
13.629	37.10	---	48.00	0.68	37.78	-10.22	Peak
13.748	37.80	---	48.00	0.68	38.48	-9.52	Peak
20.367	38.00	---	48.00	0.91	38.91	-9.09	Peak

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

Tested by : C.C.Wu

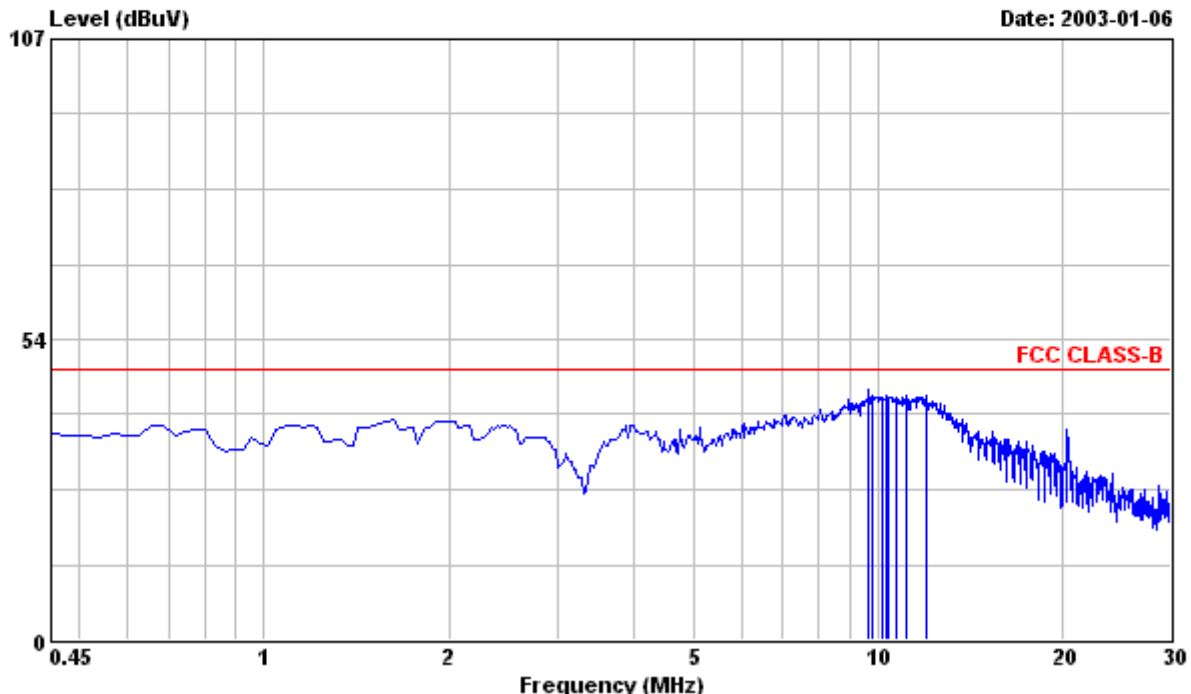


PHILIPS

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\EMI03-001-C(Philips 107E51).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
9.670	43.90	---	48.00	0.57	44.47	-3.53	Peak
9.788	42.90	---	48.00	0.58	43.48	-4.52	Peak
10.142	42.70	---	48.00	0.60	43.30	-4.70	Peak
10.320	43.00	---	48.00	0.61	43.61	-4.39	Peak
10.438	42.70	---	48.00	0.61	43.31	-4.69	Peak
10.733	42.70	---	48.00	0.62	43.32	-4.68	Peak
11.147	43.00	---	48.00	0.63	43.63	-4.37	Peak
11.975	42.80	---	48.00	0.64	43.44	-4.56	Peak

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

Tested by : C.C.Wu

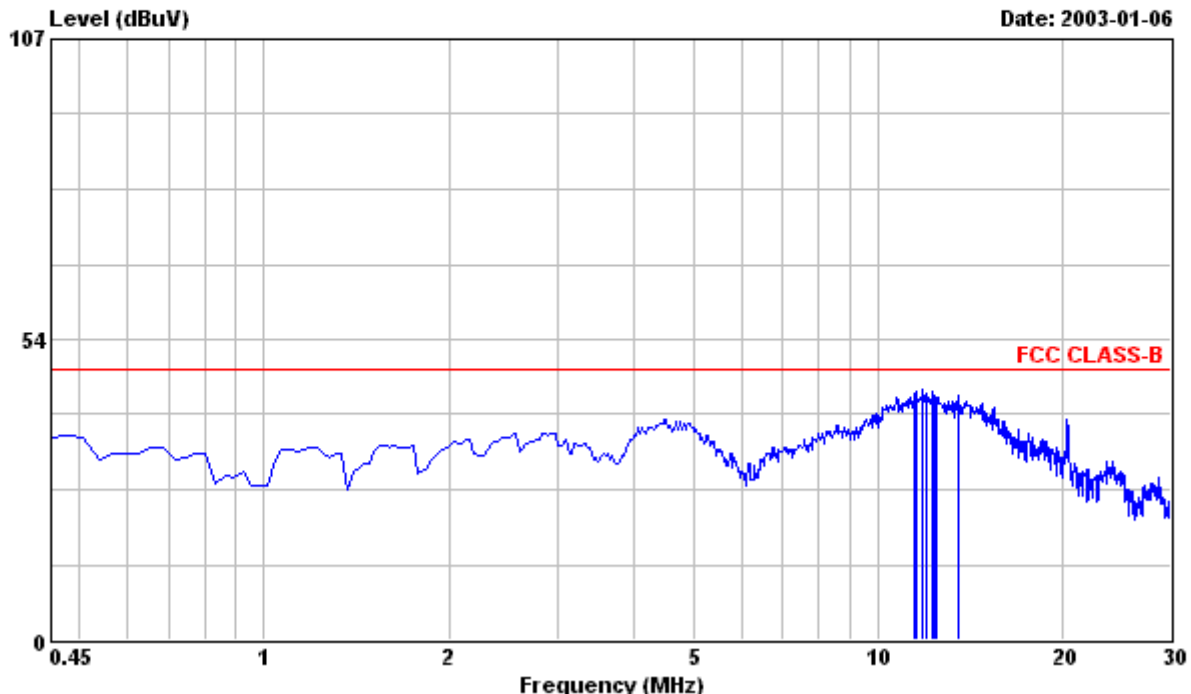


PHILIPS

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\EMI03-001-C(Philips 107E51).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							

11.443	43.40	---	48.00	0.63	44.03	-3.97	Peak
11.561	43.50	---	48.00	0.64	44.14	-3.86	Peak
11.856	44.00	---	48.00	0.64	44.64	-3.36	Peak
11.975	43.10	---	48.00	0.64	43.74	-4.26	Peak
12.270	43.50	---	48.00	0.65	44.15	-3.85	Peak
12.329	42.80	---	48.00	0.65	43.45	-4.55	Peak
12.447	42.60	---	48.00	0.65	43.25	-4.75	Peak
13.570	42.90	---	48.00	0.68	43.58	-4.42	Peak

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

Tested by : C.C.Wu

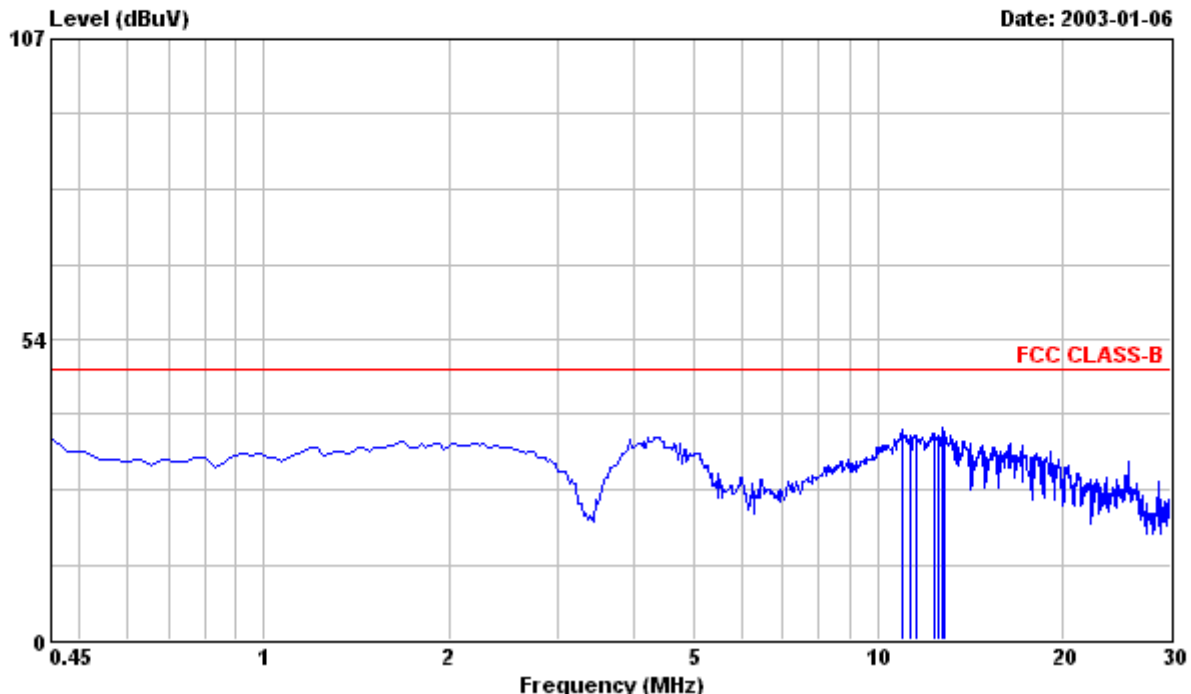


PHILIPS

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\EMI03-001-C(Philips 107E51).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 "H" PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
10.970	36.90	---	48.00	0.62	37.52	-10.48	Peak
11.324	35.90	---	48.00	0.63	36.53	-11.47	Peak
11.561	35.70	---	48.00	0.64	36.34	-11.66	Peak
12.329	36.10	---	48.00	0.65	36.75	-11.25	Peak
12.388	35.70	---	48.00	0.65	36.35	-11.65	Peak
12.566	35.90	---	48.00	0.66	36.56	-11.44	Peak
12.743	37.30	---	48.00	0.66	37.96	-10.04	Peak
12.802	36.40	---	48.00	0.66	37.06	-10.94	Peak

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

Tested by : C.C.Wu

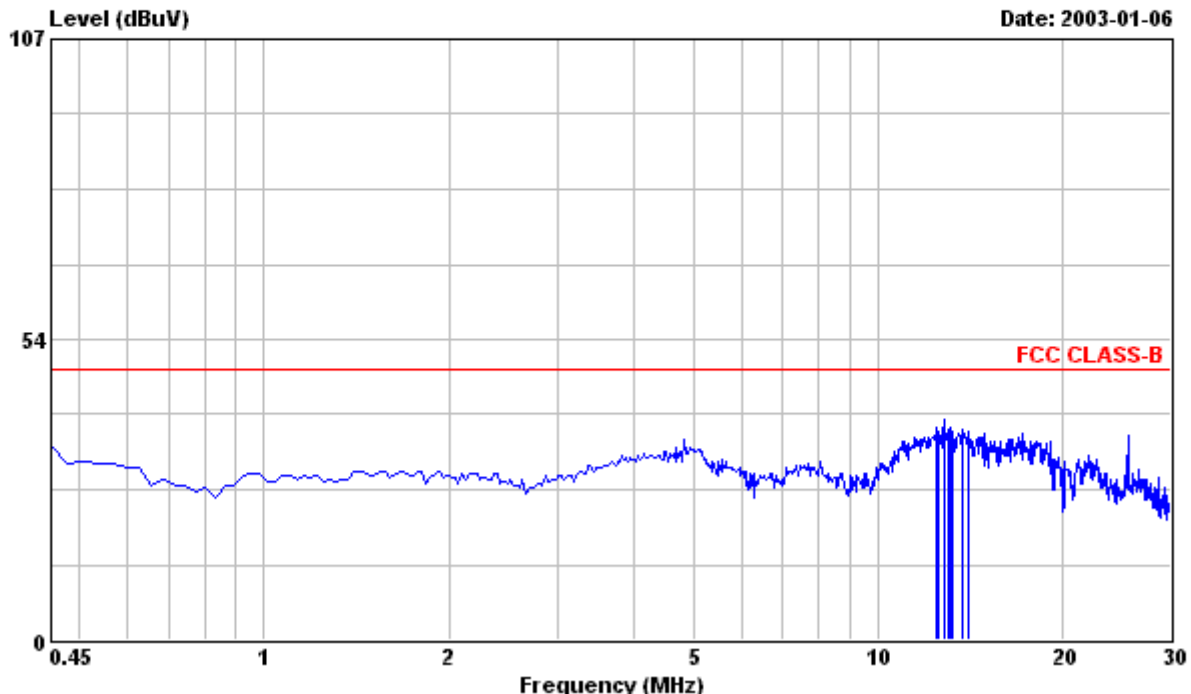


PHILIPS

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\EMI03-001-C(Philips 107E51).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 "H" PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
12.447	37.10	---	48.00	0.65	37.75	-10.25	Peak
12.506	36.30	---	48.00	0.66	36.96	-11.04	Peak
12.802	38.40	---	48.00	0.66	39.06	-8.94	Peak
13.038	36.80	---	48.00	0.67	37.47	-10.53	Peak
13.157	37.00	---	48.00	0.67	37.67	-10.33	Peak
13.216	36.60	---	48.00	0.67	37.27	-10.73	Peak
13.748	36.60	---	48.00	0.68	37.28	-10.72	Peak
14.043	36.50	---	48.00	0.68	37.18	-10.82	Peak

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

Tested by : C.C.Wu

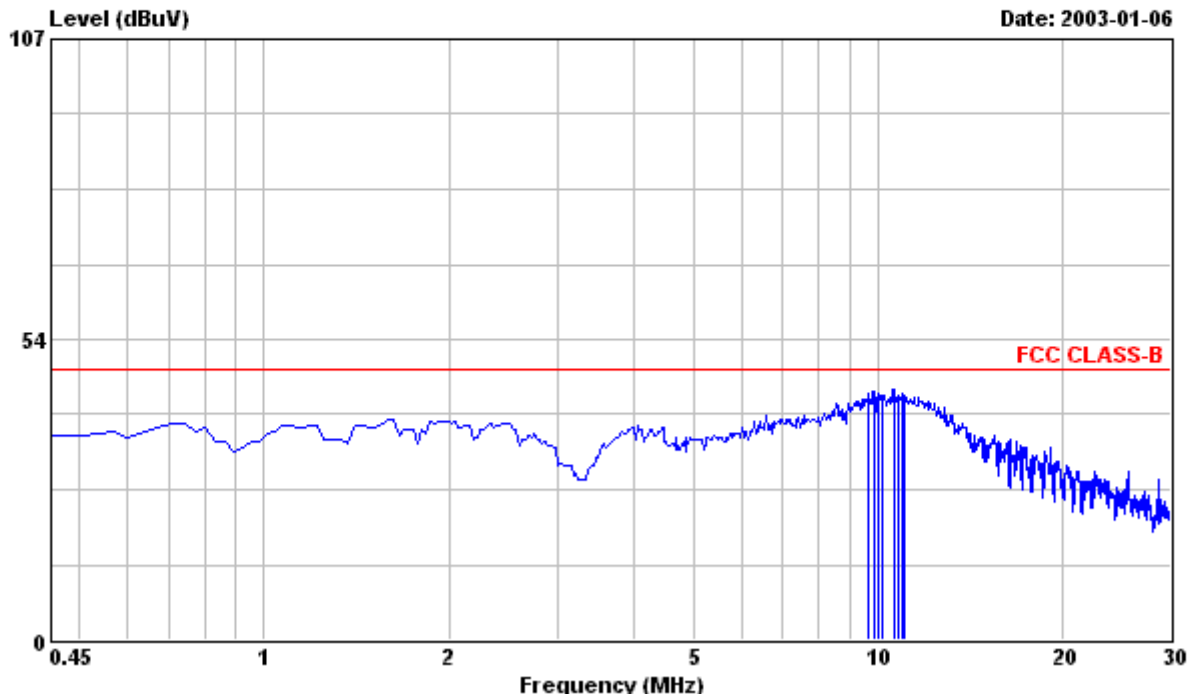


PHILIPS

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\EMI03-001-C(Philips 107E51).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 "H" PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
9.670	43.40	---	48.00	0.57	43.97	-4.03	Peak
9.847	43.80	---	48.00	0.59	44.39	-3.61	Peak
10.024	43.10	---	48.00	0.60	43.70	-4.30	Peak
10.142	43.00	---	48.00	0.60	43.60	-4.40	Peak
10.615	44.10	---	48.00	0.62	44.72	-3.28	Peak
10.793	42.90	---	48.00	0.62	43.52	-4.48	Peak
10.970	43.10	---	48.00	0.62	43.72	-4.28	Peak
11.029	43.00	---	48.00	0.62	43.62	-4.38	Peak

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

Tested by : C.C.Wu

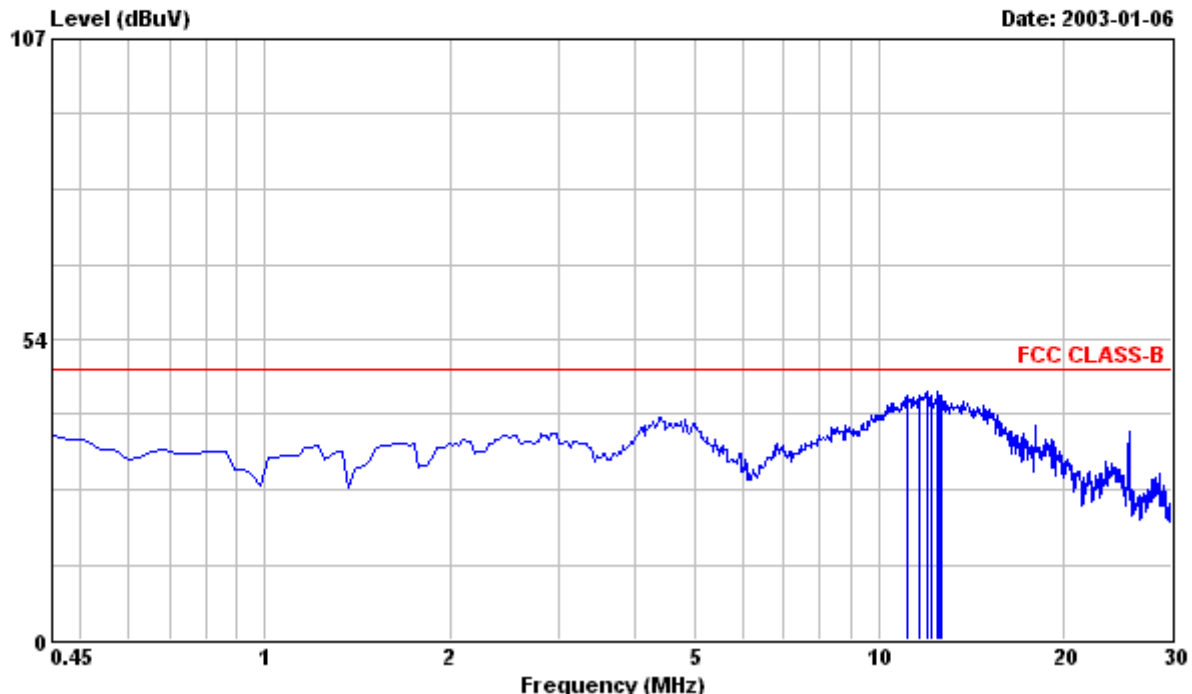


PHILIPS

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\EMI03-001-C(Philips 107E51).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 "H" PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
11.147	42.80	---	48.00	0.63	43.43	-4.57	Peak
11.679	42.70	---	48.00	0.64	43.34	-4.66	Peak
11.975	43.20	---	48.00	0.64	43.84	-4.16	Peak
12.034	43.70	---	48.00	0.65	44.35	-3.65	Peak
12.152	43.00	---	48.00	0.65	43.65	-4.35	Peak
12.447	43.40	---	48.00	0.65	44.05	-3.95	Peak
12.506	42.80	---	48.00	0.66	43.46	-4.54	Peak
12.625	42.90	---	48.00	0.66	43.56	-4.44	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
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	: 06 Jan., 2003 to 11 Jan., 2003	
Test Engineer	: C.C.Wu	
For detail measurement results see next pages.		

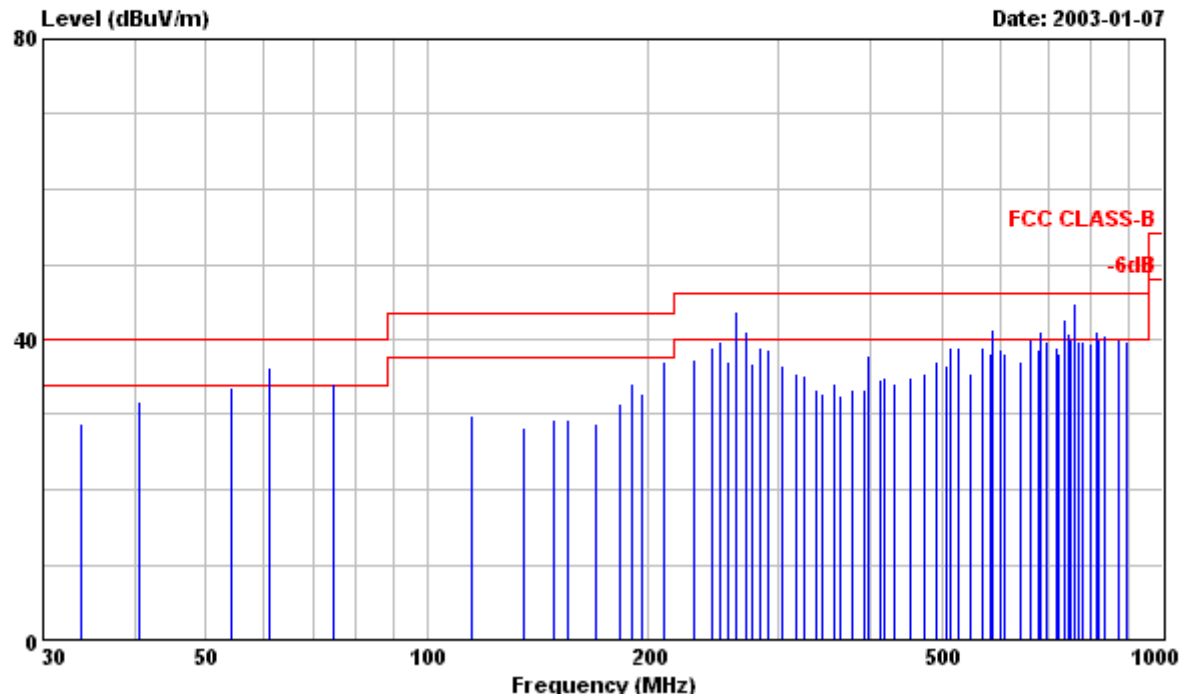


PHILIPS

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\EMI03-001-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
33.840		14.90	---	40.00	13.80	28.70	-11.30	Peak
40.560		19.60	---	40.00	12.03	31.63	-8.37	Peak
54.080		23.30	---	40.00	10.42	33.72	-6.28	Peak
! 60.870		---	25.30	40.00	9.91	35.21	-4.79	QP
! 60.870		26.40	---	40.00	9.91	36.31	-3.69	Peak
74.380		---	22.50	40.00	10.18	32.68	-7.32	QP
! 74.380		24.20	---	40.00	10.18	34.38	-5.62	Peak
114.950		17.60	---	43.50	12.15	29.75	-13.75	Peak
135.210		15.29	---	43.50	12.89	28.18	-15.32	Peak
148.730		16.00	---	43.50	13.38	29.38	-14.12	Peak
155.530		15.70	---	43.50	13.57	29.27	-14.23	Peak

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	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
169.080	14.90	---	43.50	13.94	28.84	-14.66	Peak
182.580	16.90	---	43.50	14.65	31.55	-11.95	Peak
189.320	19.10	---	43.50	15.29	34.39	-9.11	Peak
196.060	16.80	---	43.50	15.92	32.72	-10.78	Peak
209.600	19.80	---	43.50	17.15	36.95	-6.55	Peak
229.880	18.41	---	46.00	18.92	37.33	-8.67	Peak
243.400	18.99	---	46.00	19.98	38.97	-7.03	Peak
250.160	19.10	---	46.00	20.50	39.60	-6.40	Peak
250.160	---	17.26	46.00	20.50	37.76	-8.24	QP
256.920	16.10	---	46.00	20.86	36.96	-9.04	Peak
! 263.680	---	20.96	46.00	21.28	42.24	-3.76	QP
! 263.680	22.50	---	46.00	21.28	43.78	-2.22	Peak
! 270.450	19.30	---	46.00	21.64	40.94	-5.06	Peak
270.450	---	17.41	46.00	21.64	39.05	-6.95	QP
277.200	14.70	---	46.00	22.01	36.71	-9.29	Peak
283.960	16.50	---	46.00	22.37	38.87	-7.13	Peak
290.730	15.90	---	46.00	22.73	38.63	-7.37	Peak
304.240	19.90	---	46.00	16.57	36.47	-9.53	Peak
317.770	18.70	---	46.00	16.85	35.55	-10.45	Peak
324.530	18.20	---	46.00	16.99	35.19	-10.81	Peak
338.050	16.10	---	46.00	17.27	33.37	-12.63	Peak
344.810	15.40	---	46.00	17.39	32.79	-13.21	Peak
358.330	16.80	---	46.00	17.65	34.45	-11.55	Peak
365.090	14.70	---	46.00	17.79	32.49	-13.51	Peak
378.620	15.40	---	46.00	18.02	33.42	-12.58	Peak
392.150	15.20	---	46.00	18.26	33.46	-12.54	Peak
398.910	19.50	---	46.00	18.38	37.88	-8.12	Peak
412.430	16.10	---	46.00	18.57	34.67	-11.33	Peak
419.190	16.30	---	46.00	18.67	34.97	-11.03	Peak
432.710	15.50	---	46.00	18.85	34.35	-11.65	Peak
452.990	15.80	---	46.00	19.12	34.92	-11.08	Peak
473.280	16.20	---	46.00	19.39	35.59	-10.41	Peak
493.550	17.50	---	46.00	19.64	37.14	-8.86	Peak
507.070	16.80	---	46.00	19.82	36.62	-9.38	Peak
513.840	19.00	---	46.00	19.93	38.93	-7.07	Peak
527.360	18.90	---	46.00	20.16	39.06	-6.94	Peak
547.640	15.00	---	46.00	20.45	35.45	-10.55	Peak
567.920	18.10	---	46.00	20.77	38.87	-7.13	Peak
581.450	17.20	---	46.00	20.94	38.14	-7.86	Peak
! 588.210	20.40	---	46.00	21.06	41.46	-4.54	Peak
588.210	---	18.63	46.00	21.06	39.69	-6.31	QP
601.730	17.50	---	46.00	21.25	38.75	-7.25	Peak
608.490	16.80	---	46.00	21.41	38.21	-7.79	Peak
642.290	14.70	---	46.00	22.25	36.95	-9.05	Peak
! 662.570	17.40	---	46.00	22.72	40.12	-5.88	Peak
662.570	---	15.16	46.00	22.72	37.88	-8.12	QP

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	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
676.090	15.80	---	46.00	22.98	38.78	-7.22	Peak
! 682.860	18.00	---	46.00	23.13	41.13	-4.87	Peak
682.860	---	15.35	46.00	23.13	38.48	-7.52	QP
696.380	16.30	---	46.00	23.45	39.75	-6.25	Peak
716.660	15.10	---	46.00	23.74	38.84	-7.16	Peak
723.420	14.30	---	46.00	23.84	38.14	-7.86	Peak
! 736.950	18.60	---	46.00	24.01	42.61	-3.39	Peak
! 736.950	---	17.26	46.00	24.01	41.27	-4.73	QP
! 743.720	16.80	---	46.00	24.12	40.92	-5.08	Peak
743.720	---	14.71	46.00	24.12	38.83	-7.17	QP
750.480	15.70	---	46.00	24.18	39.88	-6.12	Peak
! 757.240	20.40	---	46.00	24.29	44.69	-1.31	Peak
! 757.240	---	18.12	46.00	24.29	42.41	-3.59	QP
770.760	15.20	---	46.00	24.46	39.66	-6.34	Peak
777.520	15.10	---	46.00	24.53	39.63	-6.37	Peak
797.800	14.70	---	46.00	24.80	39.50	-6.50	Peak
811.320	---	13.73	46.00	24.98	38.71	-7.29	QP
! 811.320	16.00	---	46.00	24.98	40.98	-5.02	Peak
! 818.080	14.90	---	46.00	25.11	40.01	-5.99	Peak
818.080	---	12.52	46.00	25.11	37.63	-8.37	QP
! 831.600	15.20	---	46.00	25.29	40.49	-5.51	Peak
! 872.170	14.10	---	46.00	25.90	40.00	-6.00	Peak
892.450	13.50	---	46.00	26.21	39.71	-6.29	Peak

- 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

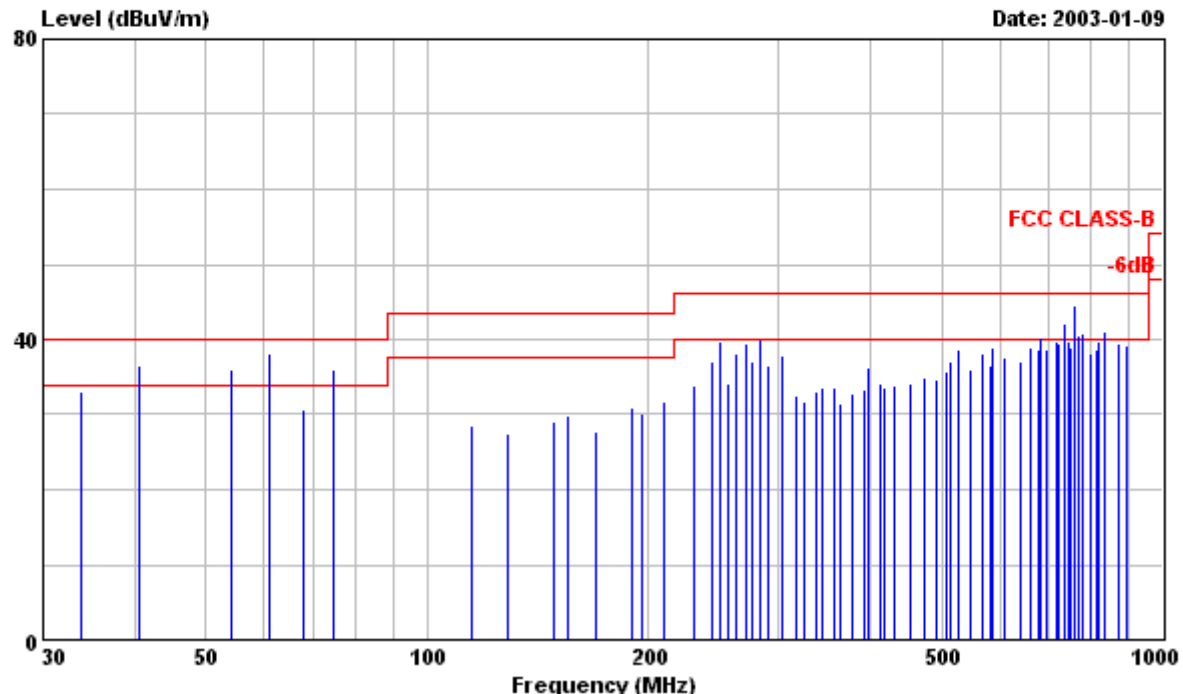


PHILIPS

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\em3\EMI03-001-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
33.840		19.20	---	40.00	13.80	33.00	-7.00	Peak
! 40.560		---	23.20	40.00	12.03	35.23	-4.77	QP
! 40.560		24.60	---	40.00	12.03	36.63	-3.37	Peak
! 54.080		25.60	---	40.00	10.42	36.02	-3.98	Peak
! 54.080		---	24.32	40.00	10.42	34.74	-5.26	QP
! 60.870		28.10	---	40.00	9.91	38.01	-1.99	Peak
! 60.870		---	26.48	40.00	9.91	36.39	-3.61	QP
67.630		20.70	---	40.00	9.98	30.68	-9.32	Peak
! 74.380		---	24.68	40.00	10.18	34.86	-5.14	QP
! 74.380		25.80	---	40.00	10.18	35.98	-4.02	Peak
114.950		16.50	---	43.50	12.15	28.65	-14.85	Peak

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	Remark
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m	
128.450	14.90	---	43.50	12.64	27.54	-15.96	Peak
148.730	15.60	---	43.50	13.38	28.98	-14.52	Peak
155.530	16.30	---	43.50	13.57	29.87	-13.63	Peak
169.080	13.80	---	43.50	13.94	27.74	-15.76	Peak
189.320	15.70	---	43.50	15.29	30.99	-12.51	Peak
196.060	14.10	---	43.50	15.92	30.02	-13.48	Peak
209.600	14.70	---	43.50	17.15	31.85	-11.65	Peak
229.880	15.00	---	46.00	18.92	33.92	-12.08	Peak
243.400	17.10	---	46.00	19.98	37.08	-8.92	Peak
250.160	19.30	---	46.00	20.50	39.80	-6.20	Peak
256.920	13.50	---	46.00	20.86	34.36	-11.64	Peak
263.680	16.90	---	46.00	21.28	38.18	-7.82	Peak
270.450	17.70	---	46.00	21.64	39.34	-6.66	Peak
277.200	15.10	---	46.00	22.01	37.11	-8.89	Peak
! 283.960	17.70	---	46.00	22.37	40.07	-5.93	Peak
283.960	---	16.32	46.00	22.37	38.69	-7.31	QP
290.730	13.90	---	46.00	22.73	36.63	-9.37	Peak
304.240	21.40	---	46.00	16.57	37.97	-8.03	Peak
317.770	15.60	---	46.00	16.85	32.45	-13.55	Peak
324.530	14.80	---	46.00	16.99	31.79	-14.21	Peak
338.050	15.70	---	46.00	17.27	32.97	-13.03	Peak
344.810	16.30	---	46.00	17.39	33.69	-12.31	Peak
358.330	15.90	---	46.00	17.65	33.55	-12.45	Peak
365.090	13.80	---	46.00	17.79	31.59	-14.41	Peak
378.620	14.70	---	46.00	18.02	32.72	-13.28	Peak
392.150	15.10	---	46.00	18.26	33.36	-12.64	Peak
398.910	17.80	---	46.00	18.38	36.18	-9.82	Peak
412.430	15.70	---	46.00	18.57	34.27	-11.73	Peak
419.190	15.00	---	46.00	18.67	33.67	-12.33	Peak
432.710	15.00	---	46.00	18.85	33.85	-12.15	Peak
452.990	15.30	---	46.00	19.12	34.42	-11.58	Peak
473.280	15.60	---	46.00	19.39	34.99	-11.01	Peak
493.550	15.10	---	46.00	19.64	34.74	-11.26	Peak
507.070	16.00	---	46.00	19.82	35.82	-10.18	Peak
513.840	17.10	---	46.00	19.93	37.03	-8.97	Peak
527.360	18.40	---	46.00	20.16	38.56	-7.44	Peak
547.640	15.50	---	46.00	20.45	35.95	-10.05	Peak
567.920	17.40	---	46.00	20.77	38.17	-7.83	Peak
581.450	15.60	---	46.00	20.94	36.54	-9.46	Peak
588.210	18.00	---	46.00	21.06	39.06	-6.94	Peak
608.490	16.10	---	46.00	21.41	37.51	-8.49	Peak
642.290	14.80	---	46.00	22.25	37.05	-8.95	Peak
662.570	16.30	---	46.00	22.72	39.02	-6.98	Peak
676.090	15.70	---	46.00	22.98	38.68	-7.32	Peak
! 682.860	17.20	---	46.00	23.13	40.33	-5.67	Peak
682.860	---	15.16	46.00	23.13	38.29	-7.71	QP

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	Remark
VERTICAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
696.380	15.20	---	46.00	23.45	38.65	-7.35	Peak
716.660	15.90	---	46.00	23.74	39.64	-6.36	Peak
723.420	15.60	---	46.00	23.84	39.44	-6.56	Peak
! 736.950	18.20	---	46.00	24.01	42.21	-3.79	Peak
! 736.950	---	16.78	46.00	24.01	40.79	-5.21	QP
743.720	15.60	---	46.00	24.12	39.72	-6.28	Peak
750.480	14.70	---	46.00	24.18	38.88	-7.12	Peak
! 757.240	20.30	---	46.00	24.29	44.59	-1.41	Peak
! 757.240	---	18.24	46.00	24.29	42.53	-3.47	QP
! 770.760	16.00	---	46.00	24.46	40.46	-5.54	Peak
770.760	---	14.10	46.00	24.46	38.56	-7.44	QP
! 777.520	16.30	---	46.00	24.53	40.83	-5.17	Peak
777.520	---	14.08	46.00	24.53	38.61	-7.39	QP
797.800	13.20	---	46.00	24.80	38.00	-8.00	Peak
811.320	13.80	---	46.00	24.98	38.78	-7.22	Peak
818.080	14.70	---	46.00	25.11	39.81	-6.19	Peak
! 831.600	15.90	---	46.00	25.29	41.19	-4.81	Peak
831.600	---	13.87	46.00	25.29	39.16	-6.84	QP
872.170	13.50	---	46.00	25.90	39.40	-6.60	Peak
892.450	13.10	---	46.00	26.21	39.31	-6.69	Peak

- 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

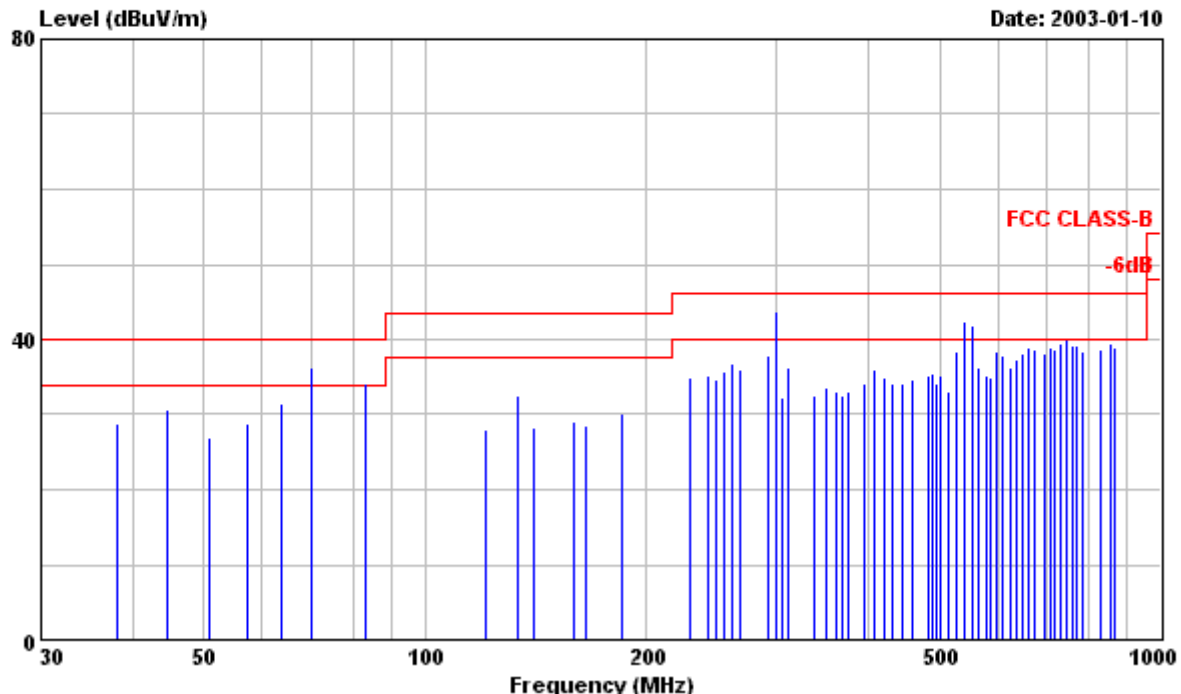


PHILIPS

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\EMI03-001-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 "H" PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency Peak Reading QP reading Limit Factor Emission Level Over Limit Remark
HORIZONTAL

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
38.170	16.20	---	40.00	12.58	28.78	-11.22	Peak
44.540	19.20	---	40.00	11.55	30.75	-9.25	Peak
50.890	16.30	---	40.00	10.71	27.01	-12.99	Peak
57.260	18.70	---	40.00	10.14	28.84	-11.16	Peak
63.620	21.60	---	40.00	9.94	31.54	-8.46	Peak
! 70.000	---	24.69	40.00	10.00	34.69	-5.31	QP
! 70.000	26.30	---	40.00	10.00	36.30	-3.70	Peak
! 82.720	23.50	---	40.00	10.54	34.04	-5.96	Peak
82.720	---	22.10	40.00	10.54	32.64	-7.36	QP
120.890	15.70	---	43.50	12.40	28.10	-15.40	Peak
133.610	19.60	---	43.50	12.83	32.43	-11.07	Peak

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	Remark
MHz	dBuV	dBuV	dBuV/m	dB/m	HORIZONTAL		
					dBuV/m	dBuV/m	
133.610	18.90	---	43.50	12.83	31.73	-11.77	Peak
139.950	15.10	---	43.50	13.06	28.16	-15.34	Peak
159.040	15.50	---	43.50	13.68	29.18	-14.32	Peak
165.400	14.80	---	43.50	13.85	28.65	-14.85	Peak
184.480	15.20	---	43.50	14.84	30.04	-13.46	Peak
229.060	16.00	---	46.00	18.86	34.86	-11.14	Peak
241.760	15.40	---	46.00	19.84	35.24	-10.76	Peak
248.120	14.20	---	46.00	20.37	34.57	-11.43	Peak
254.500	15.10	---	46.00	20.76	35.86	-10.14	Peak
260.850	15.80	---	46.00	21.12	36.92	-9.08	Peak
267.220	14.40	---	46.00	21.49	35.89	-10.11	Peak
292.670	15.00	---	46.00	22.84	37.84	-8.16	Peak
! 299.020	20.70	---	46.00	23.15	43.85	-2.15	Peak
! 299.020	---	19.65	46.00	23.15	42.80	-3.20	QP
305.390	15.80	---	46.00	16.59	32.39	-13.61	Peak
311.750	19.60	---	46.00	16.73	36.33	-9.67	Peak
337.190	15.20	---	46.00	17.25	32.45	-13.55	Peak
349.910	16.10	---	46.00	17.51	33.61	-12.39	Peak
362.630	15.20	---	46.00	17.74	32.94	-13.06	Peak
369.000	14.70	---	46.00	17.86	32.56	-13.44	Peak
375.360	15.10	---	46.00	17.98	33.08	-12.92	Peak
394.430	15.90	---	46.00	18.31	34.21	-11.79	Peak
407.150	17.40	---	46.00	18.50	35.90	-10.10	Peak
419.890	16.20	---	46.00	18.69	34.89	-11.11	Peak
432.620	15.30	---	46.00	18.85	34.15	-11.85	Peak
445.340	15.00	---	46.00	19.02	34.02	-11.98	Peak
458.070	15.50	---	46.00	19.18	34.68	-11.32	Peak
483.520	15.70	---	46.00	19.51	35.21	-10.79	Peak
489.880	16.00	---	46.00	19.58	35.58	-10.42	Peak
496.240	14.80	---	46.00	19.66	34.46	-11.54	Peak
502.610	15.50	---	46.00	19.76	35.26	-10.74	Peak
515.340	13.20	---	46.00	19.96	33.16	-12.84	Peak
528.060	18.30	---	46.00	20.16	38.46	-7.54	Peak
! 540.780	---	20.53	46.00	20.36	40.89	-5.11	QP
! 540.780	22.10	---	46.00	20.36	42.46	-3.54	Peak
! 553.500	21.20	---	46.00	20.54	41.74	-4.26	Peak
! 553.500	---	19.56	46.00	20.54	40.10	-5.90	QP
566.220	15.50	---	46.00	20.74	36.24	-9.76	Peak
578.940	14.20	---	46.00	20.91	35.11	-10.89	Peak
585.300	14.00	---	46.00	21.00	35.00	-11.00	Peak
598.020	17.30	---	46.00	21.17	38.47	-7.53	Peak
610.740	16.50	---	46.00	21.46	37.96	-8.04	Peak
623.490	14.60	---	46.00	21.78	36.38	-9.62	Peak
636.210	15.30	---	46.00	22.09	37.39	-8.61	Peak
648.930	15.70	---	46.00	22.40	38.10	-7.90	Peak
661.650	16.30	---	46.00	22.66	38.96	-7.04	Peak

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	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
674.370	15.60	---	46.00	22.98	38.58	-7.42	Peak
693.450	14.80	---	46.00	23.40	38.20	-7.80	Peak
706.180	15.40	---	46.00	23.60	39.00	-7.00	Peak
718.910	15.00	---	46.00	23.77	38.77	-7.23	Peak
731.630	15.60	---	46.00	23.94	39.54	-6.46	Peak
! 744.350	15.90	---	46.00	24.12	40.02	-5.98	Peak
744.350	---	13.03	46.00	24.12	37.15	-8.85	QP
757.070	14.80	---	46.00	24.29	39.09	-6.91	Peak
769.800	14.70	---	46.00	24.42	39.12	-6.88	Peak
782.520	13.80	---	46.00	24.59	38.39	-7.61	Peak
827.050	13.40	---	46.00	25.24	38.64	-7.36	Peak
852.490	14.00	---	46.00	25.59	39.59	-6.41	Peak
865.210	13.10	---	46.00	25.81	38.91	-7.09	Peak

- 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

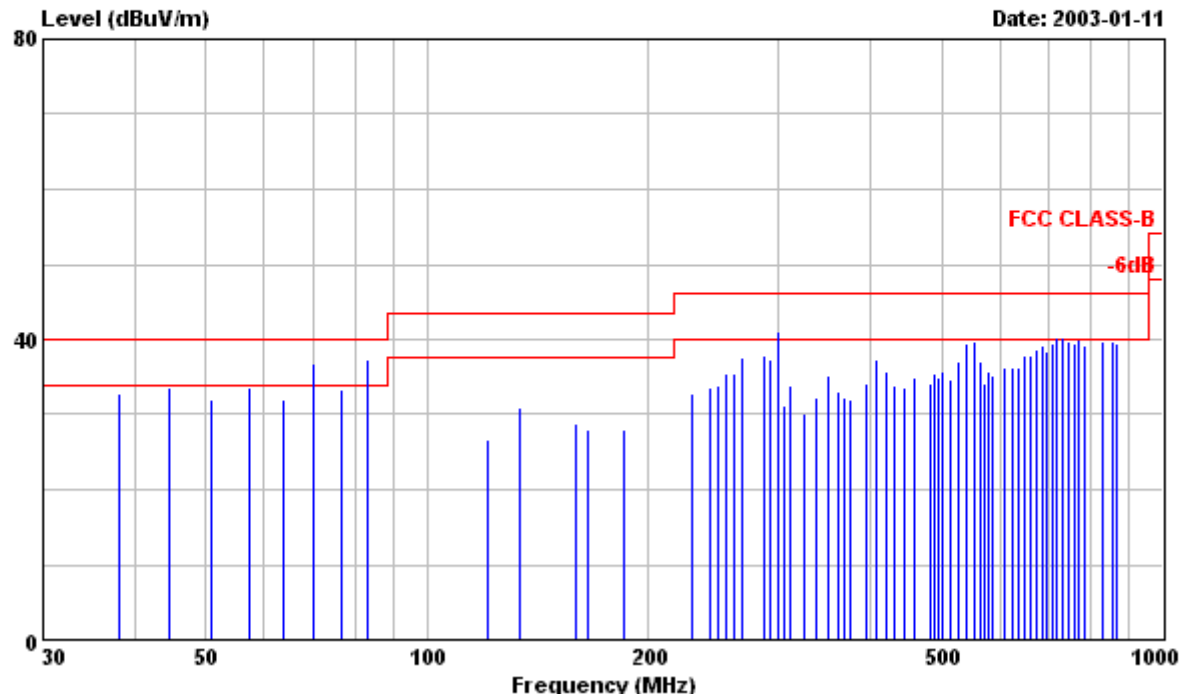


PHILIPS

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\EMI03-001-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 107E51 Serial No:TY0212759
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 "H" PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CAR WAS
: TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
38.170		20.30	---	40.00	12.58	32.88	-7.12	Peak
44.540		22.00	---	40.00	11.55	33.55	-6.45	Peak
50.890		21.40	---	40.00	10.71	32.11	-7.89	Peak
57.260		23.40	---	40.00	10.14	33.54	-6.46	Peak
63.620		22.10	---	40.00	9.94	32.04	-7.96	Peak
63.620		21.50	---	40.00	9.94	31.44	-8.56	Peak
! 70.000		26.80	---	40.00	10.00	36.80	-3.20	Peak
! 70.000		---	25.10	40.00	10.00	35.10	-4.90	QP
76.360		23.20	---	40.00	10.25	33.45	-6.55	Peak
! 82.720		26.80	---	40.00	10.54	37.34	-2.66	Peak
! 82.720		---	25.20	40.00	10.54	35.74	-4.26	QP

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	Remark
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL		
					dBuV/m	dBuV/m	
120.890	14.30	---	43.50	12.40	26.70	-16.80	Peak
133.610	18.10	---	43.50	12.83	30.93	-12.57	Peak
159.040	15.10	---	43.50	13.68	28.78	-14.72	Peak
165.400	14.20	---	43.50	13.85	28.05	-15.45	Peak
184.480	13.10	---	43.50	14.84	27.94	-15.56	Peak
229.060	13.90	---	46.00	18.86	32.76	-13.24	Peak
241.760	13.70	---	46.00	19.84	33.54	-12.46	Peak
248.120	13.40	---	46.00	20.37	33.77	-12.23	Peak
254.500	14.80	---	46.00	20.76	35.56	-10.44	Peak
260.850	14.40	---	46.00	21.12	35.52	-10.48	Peak
267.220	16.10	---	46.00	21.49	37.59	-8.41	Peak
286.300	15.30	---	46.00	22.47	37.77	-8.23	Peak
292.670	14.60	---	46.00	22.84	37.44	-8.56	Peak
! 299.020	17.90	---	46.00	23.15	41.05	-4.95	Peak
299.020	---	16.75	46.00	23.15	39.90	-6.10	QP
305.390	14.50	---	46.00	16.59	31.09	-14.91	Peak
311.750	17.00	---	46.00	16.73	33.73	-12.27	Peak
324.470	13.20	---	46.00	16.99	30.19	-15.81	Peak
337.190	15.10	---	46.00	17.25	32.35	-13.65	Peak
349.910	17.80	---	46.00	17.51	35.31	-10.69	Peak
362.630	15.40	---	46.00	17.74	33.14	-12.86	Peak
369.000	14.30	---	46.00	17.86	32.16	-13.84	Peak
375.360	14.10	---	46.00	17.98	32.08	-13.92	Peak
394.430	16.20	---	46.00	18.31	34.51	-11.49	Peak
407.150	18.80	---	46.00	18.50	37.30	-8.70	Peak
419.890	17.00	---	46.00	18.69	35.69	-10.31	Peak
432.620	15.10	---	46.00	18.85	33.95	-12.05	Peak
445.340	14.70	---	46.00	19.02	33.72	-12.28	Peak
458.070	15.80	---	46.00	19.18	34.98	-11.02	Peak
483.520	14.70	---	46.00	19.51	34.21	-11.79	Peak
489.880	16.00	---	46.00	19.58	35.58	-10.42	Peak
496.240	15.20	---	46.00	19.66	34.86	-11.14	Peak
502.610	16.10	---	46.00	19.76	35.86	-10.14	Peak
515.340	14.60	---	46.00	19.96	34.56	-11.44	Peak
528.060	17.00	---	46.00	20.16	37.16	-8.84	Peak
540.780	19.00	---	46.00	20.36	39.36	-6.64	Peak
553.500	19.30	---	46.00	20.54	39.84	-6.16	Peak
566.220	16.30	---	46.00	20.74	37.04	-8.96	Peak
572.580	13.59	---	46.00	20.83	34.42	-11.58	Peak
578.940	14.80	---	46.00	20.91	35.71	-10.29	Peak
585.300	14.20	---	46.00	21.00	35.20	-10.80	Peak
610.740	14.70	---	46.00	21.46	36.16	-9.84	Peak
623.490	14.60	---	46.00	21.78	36.38	-9.62	Peak
636.210	14.30	---	46.00	22.09	36.39	-9.61	Peak
648.930	15.40	---	46.00	22.40	37.80	-8.20	Peak
661.650	15.30	---	46.00	22.66	37.96	-8.04	Peak

- 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	Remark
VERTICAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
674.370	15.80	---	46.00	22.98	38.78	-7.22	Peak
687.090	15.90	---	46.00	23.24	39.14	-6.86	Peak
693.450	15.10	---	46.00	23.40	38.50	-7.50	Peak
706.180	15.80	---	46.00	23.60	39.40	-6.60	Peak
! 718.910	16.40	---	46.00	23.77	40.17	-5.83	Peak
718.910	---	13.97	46.00	23.77	37.74	-8.26	QP
! 731.630	16.20	---	46.00	23.94	40.14	-5.86	Peak
731.630	---	14.17	46.00	23.94	38.11	-7.89	QP
744.350	15.60	---	46.00	24.12	39.72	-6.28	Peak
757.070	15.30	---	46.00	24.29	39.59	-6.41	Peak
! 769.800	15.60	---	46.00	24.42	40.02	-5.98	Peak
782.520	14.60	---	46.00	24.59	39.19	-6.81	Peak
827.050	14.50	---	46.00	25.24	39.74	-6.26	Peak
852.490	14.10	---	46.00	25.59	39.69	-6.31	Peak
865.210	13.70	---	46.00	25.81	39.51	-6.49	Peak

- 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