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.: TYR87-2030 Date : 30 September, 2002 Page : Page 1 of 42

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. : A3KM106
Model Name : 180P2
Serial Number : TY0207434
Description : 18" SXGA LCD color monitor, Max. resolution 1280x1024/75Hz

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 : 10 Sep. 2002

Date of performance of test : 11 Sep., 2002 to 14 Sep., 2002

C.C. Wu - EMC Test Engineer

Ronnie Yang - EMC Manager
NVLAP Signatory

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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, 18" color monitor :

Model No. : 180P2
FCC ID : A3KM106
Brand : PHILIPS

The color monitor automatically scans horizontal frequencies between 30KHz and 82KHz , and vertical frequencies between 56Hz and 76Hz. This color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1280x1024 pixels.

The monitor has 16 factory-preset modes as indicated in the following table:

#	Resolution	Frequency	Pixel rate	Sync	Comment
1	640X350	31.5K/70HZ	25.175	(+/-)	IBM VGA 10h
2	720X400	31.5K/70HZ	28.322	(-/+)	IBM VGA 3h
3	640X480	37.5K/75HZ	31.501	(-/-)	
4	640X480	35.0K/67HZ	30.24	(-/-)	
5	640X480	31.5K/60HZ	25.175	(-/-)	
6	800X600	35.2K/56HZ	36	(+/+)	
7	800X600	46.9K/75HZ	49.498	(+/+)	
8	800X600	37.9K/60HZ	40	(+/+)	
9	832X624	49.7K/75HZ	57.28	(+/+)	MAC
10	1024X768	60.0K/75HZ	78.75	(+/+)	
11	1024X768	48.4K/60HZ	65	(-/-)	
12	1152X870	68.7K/75HZ	100	(-/-)	MAC
13	1152X900	71.8K/76HZ	108	(+/+)	SUN Mode II
14	1280X1024	64.0K/60HZ	108	(+/+)	
15	1280X1024	80.0K/75HZ	135	(+/+)	
16	688X556	31.3K/50HZ	27	(-/+)	TV-PAL

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	HP85460A	3441A00199	11/09/2001	11/09/2002
RFI Filter Section	HP85460A	3330A00177	11/09/2001	11/09/2002
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

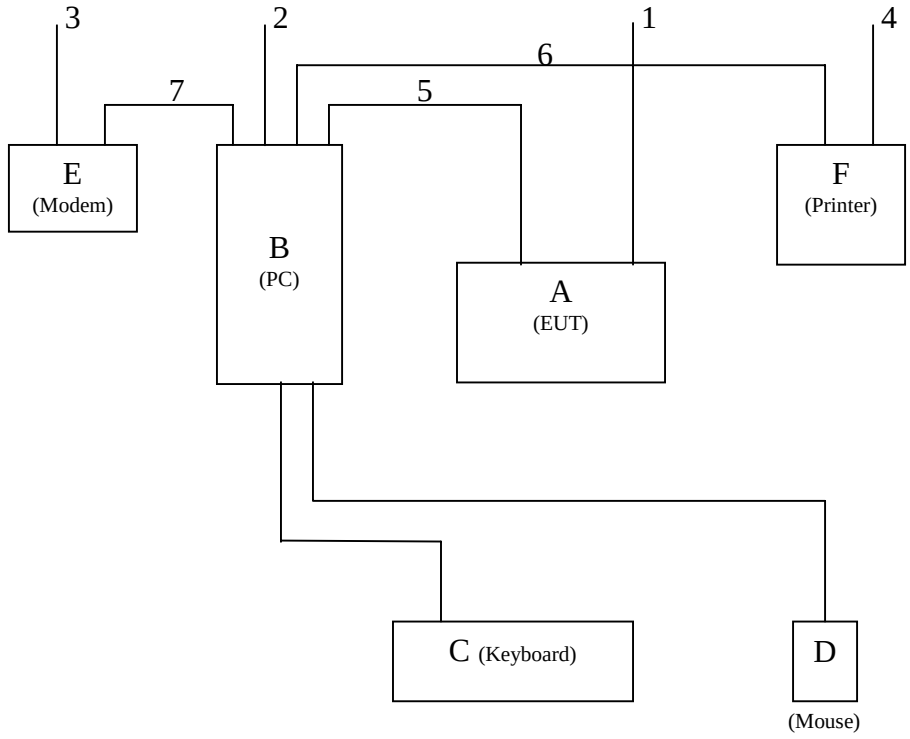
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT "180P2" were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	PHILIPS 180P2	TY0207434	A3KM106	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.
DVI I/F cable with two ferrite cores was.
Audio cable with one ferrite core was used.

Tested and reported modes as following:

Test Item	File No.	Resolution	Frequencies	I/F Cable
Conducted	EMI02-050-C	1280x1024	80KHz/75Hz	D-sub & DVI
		1024x768	60KHz/75Hz	D-sub
Radiated	EMI02-050-R	1280x1024	80KHz/75Hz	D-sub & DVI
		1024x768	60KHz/75Hz	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” patter 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	: 11 Sep., 2002 to 14 Sep., 2002
Test Engineer	: C.C.Wu

For detail measurement results see next pages.

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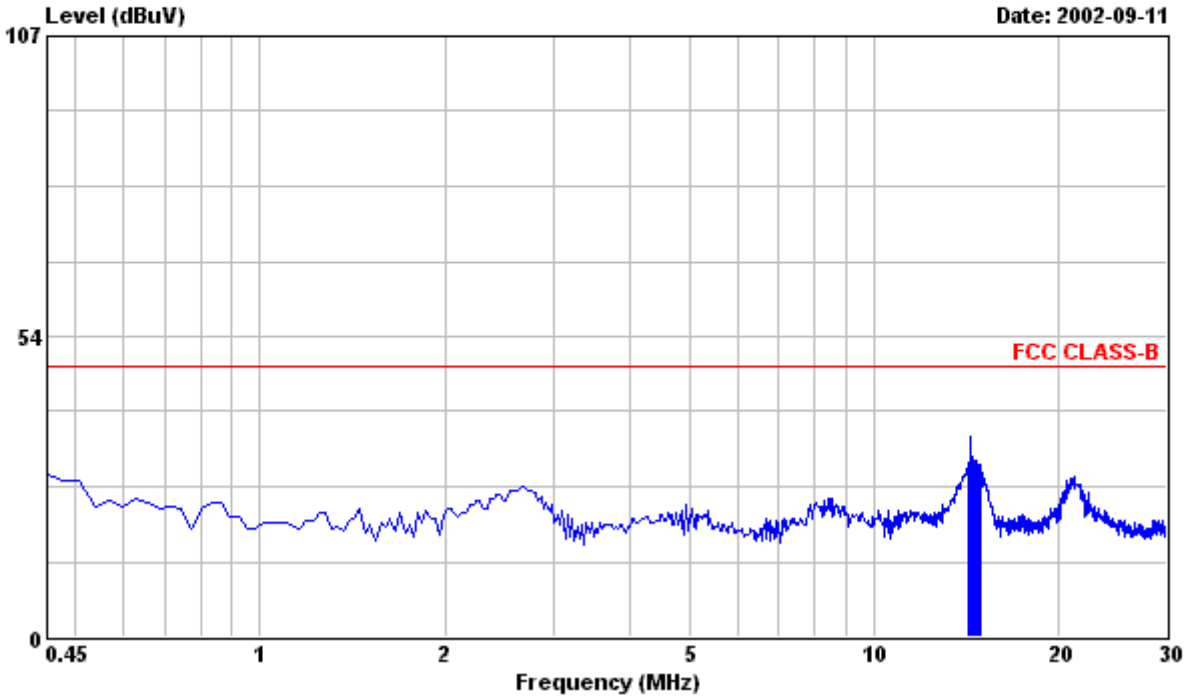

Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Lavel dBuV	Over Limit dBuV	LINE
14.279	30.20	48.00	0.69	30.89	-17.11	
14.398	34.90	48.00	0.69	35.59	-12.41	
14.516	30.30	48.00	0.69	30.99	-17.01	
14.575	30.60	48.00	0.69	31.29	-16.71	
14.693	30.61	48.00	0.69	31.30	-16.70	
14.752	30.10	48.00	0.70	30.80	-17.20	
14.811	30.00	48.00	0.70	30.70	-17.30	
14.870	29.80	48.00	0.70	30.50	-17.50	

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

Tested by : C C.Wu

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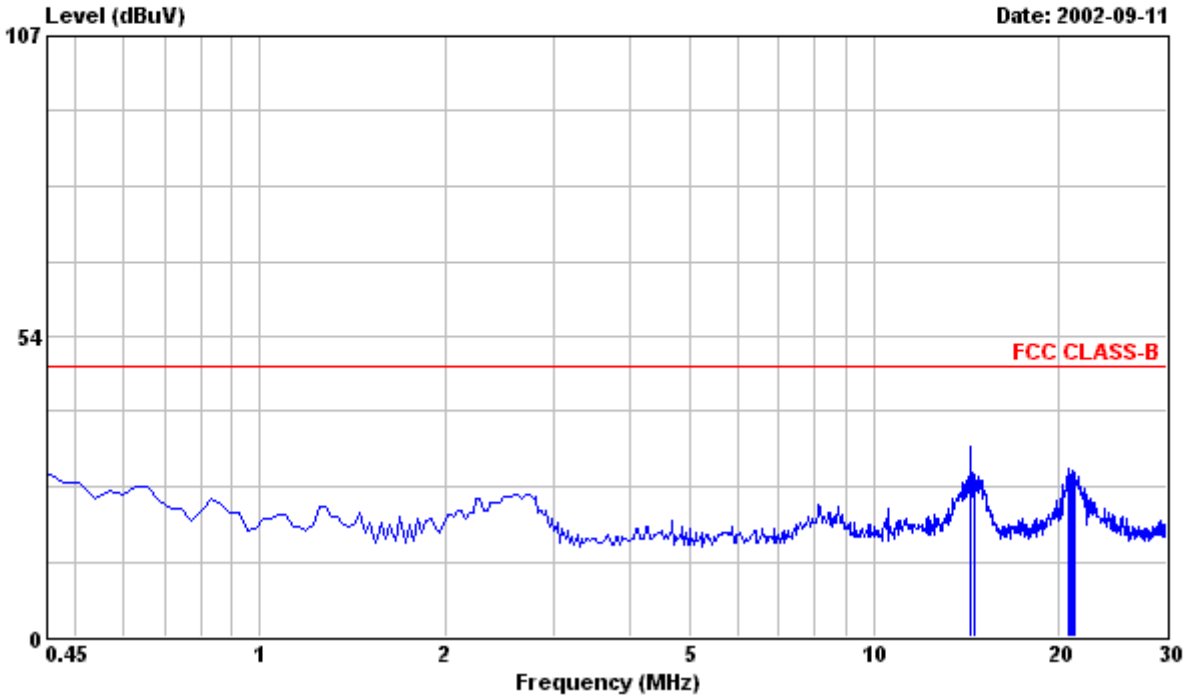

Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	NEUTRAL
0.450	29.10	48.00	0.20	29.30	-18.70	
14.398	33.30	48.00	0.69	33.99	-14.01	
14.634	28.30	48.00	0.69	28.99	-19.01	
20.721	29.20	48.00	0.92	30.12	-17.88	
20.899	28.10	48.00	0.92	29.02	-18.98	
21.135	28.50	48.00	0.93	29.43	-18.57	
21.194	28.20	48.00	0.93	29.13	-18.87	
21.253	27.90	48.00	0.93	28.83	-19.17	

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

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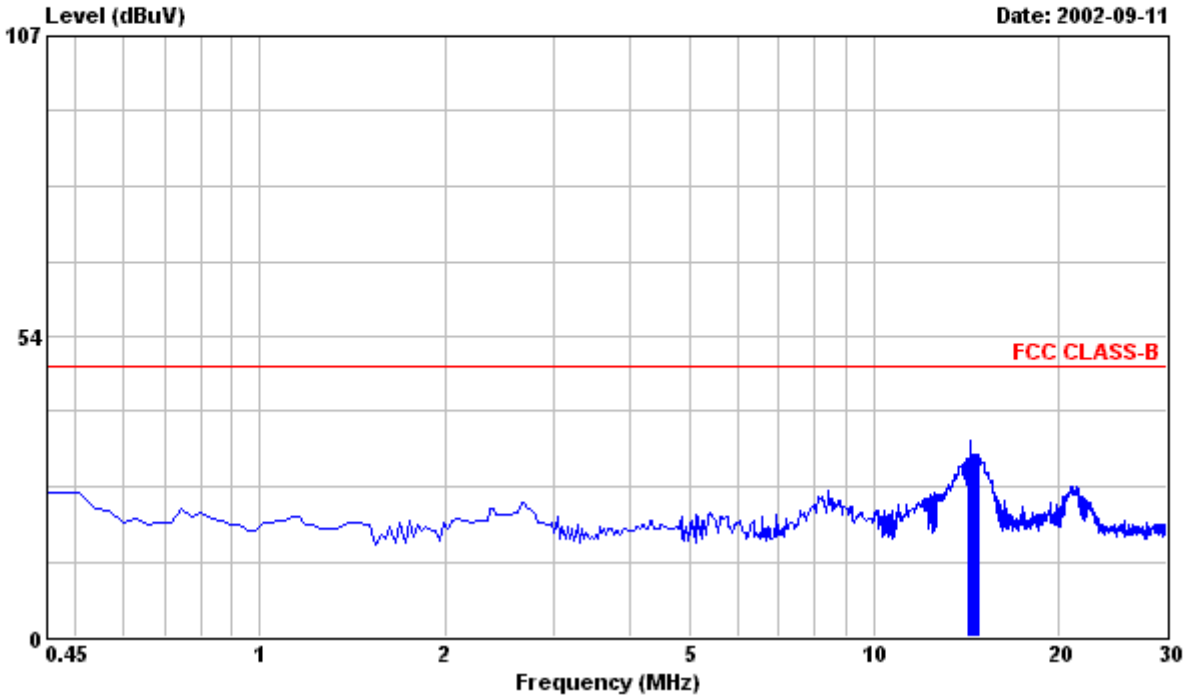

Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	LINE
14.220	31.20	48.00	0.69	31.89	-16.11	
14.398	34.20	48.00	0.69	34.89	-13.11	
14.457	31.50	48.00	0.69	32.19	-15.81	
14.516	31.90	48.00	0.69	32.59	-15.41	
14.634	31.80	48.00	0.69	32.49	-15.51	
14.693	31.91	48.00	0.69	32.60	-15.40	
14.752	31.60	48.00	0.70	32.30	-15.70	
14.811	31.40	48.00	0.70	32.10	-15.90	

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

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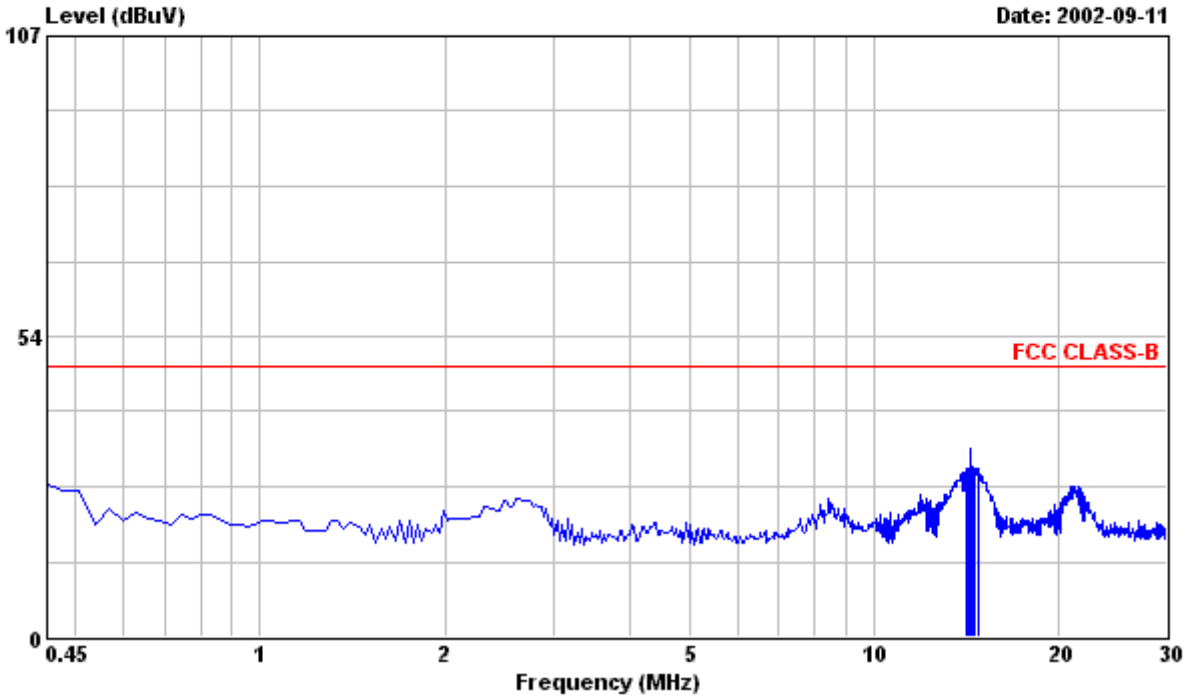

Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	NEUTRAL
14.161	29.10	48.00	0.69	29.79	-18.21	
14.220	29.30	48.00	0.69	29.99	-18.01	
14.398	32.70	48.00	0.69	33.39	-14.61	
14.457	29.30	48.00	0.69	29.99	-18.01	
14.516	29.80	48.00	0.69	30.49	-17.51	
14.634	29.40	48.00	0.69	30.09	-17.91	
14.752	29.30	48.00	0.70	30.00	-18.00	
14.811	29.20	48.00	0.70	29.90	-18.10	

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

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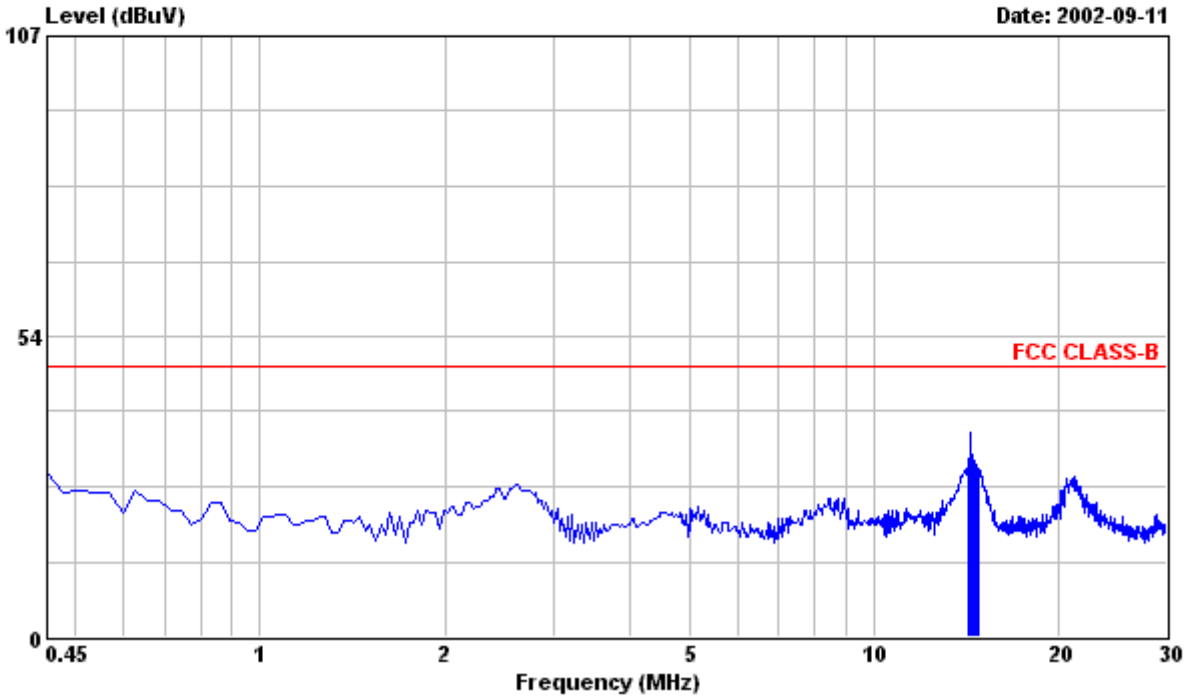

Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 12 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	LINE
14.220	30.10	48.00	0.69	30.79	-17.21	
14.279	30.90	48.00	0.69	31.59	-16.41	
14.398	35.70	48.00	0.69	36.39	-11.61	
14.457	29.60	48.00	0.69	30.29	-17.71	
14.516	30.30	48.00	0.69	30.99	-17.01	
14.634	30.60	48.00	0.69	31.29	-16.71	
14.693	29.81	48.00	0.69	30.50	-17.50	
14.811	29.40	48.00	0.70	30.10	-17.90	

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

Tested by : C C.Wu

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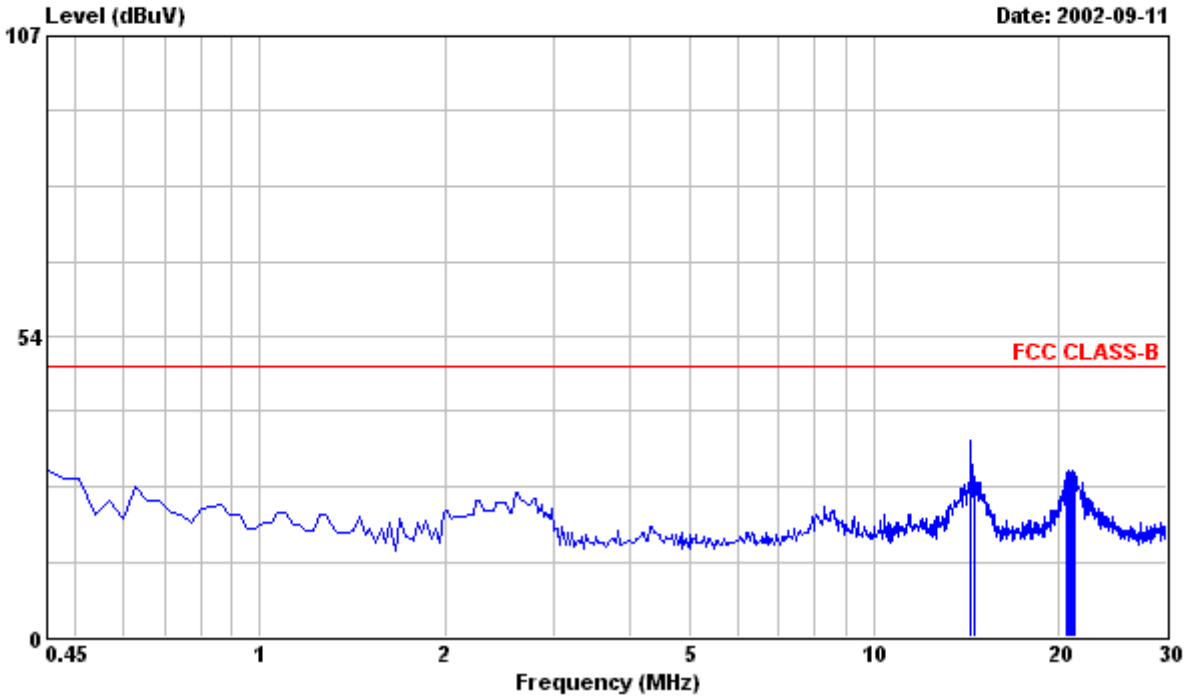


Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 12 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

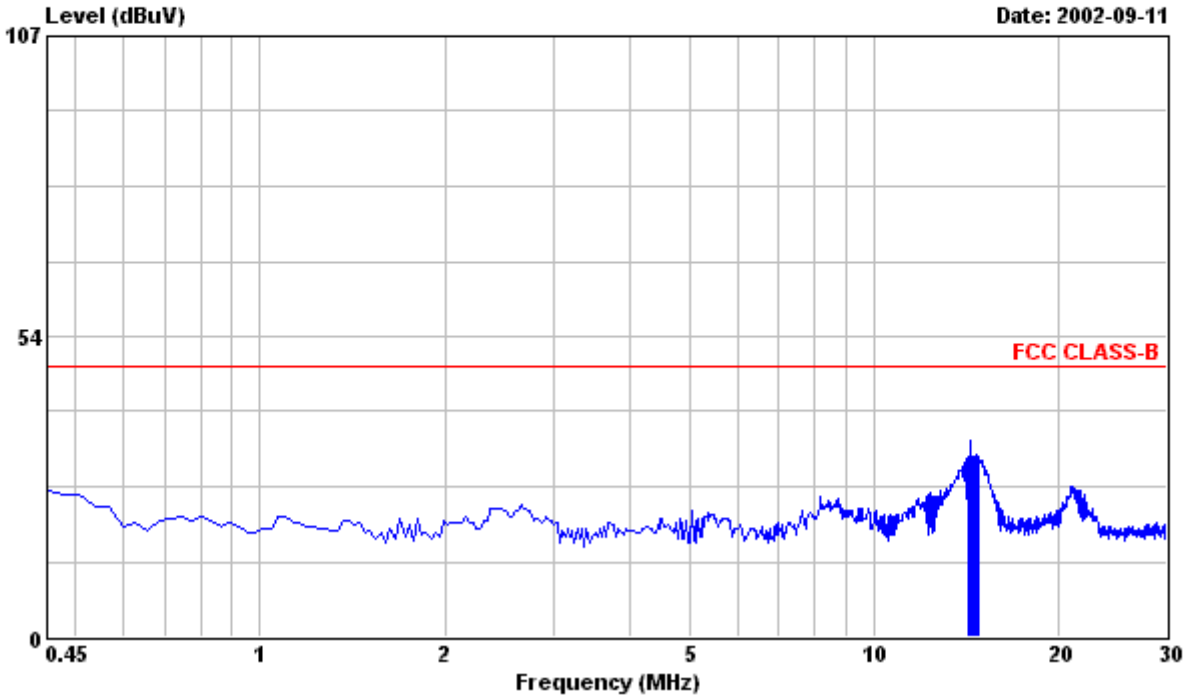
Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Lavel dBuV	Over Limit dBuV	NEUTRAL
0.450	29.50	48.00	0.20	29.70	-18.30	
14.398	34.10	48.00	0.69	34.79	-13.21	
14.634	28.00	48.00	0.69	28.69	-19.31	
20.662	28.31	48.00	0.91	29.22	-18.78	
20.721	28.60	48.00	0.92	29.52	-18.48	
20.899	28.50	48.00	0.92	29.42	-18.58	
20.958	27.60	48.00	0.92	28.52	-19.48	
21.076	28.70	48.00	0.92	29.62	-18.38	
21.312	28.30	48.00	0.93	29.23	-18.77	

Remarks: 1. All Readings are Peak .
2. Emission Lavel (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 Inductrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 7 File#: C:\Program Files\e3\EMI02-050-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 12 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	LINE
14.279	31.30	48.00	0.69	31.99	-16.01	
14.398	34.30	48.00	0.69	34.99	-13.01	
14.457	31.40	48.00	0.69	32.09	-15.91	
14.516	31.30	48.00	0.69	31.99	-16.01	
14.575	31.30	48.00	0.69	31.99	-16.01	
14.634	31.50	48.00	0.69	32.19	-15.81	
14.693	31.71	48.00	0.69	32.40	-15.60	
14.752	31.30	48.00	0.70	32.00	-16.00	

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

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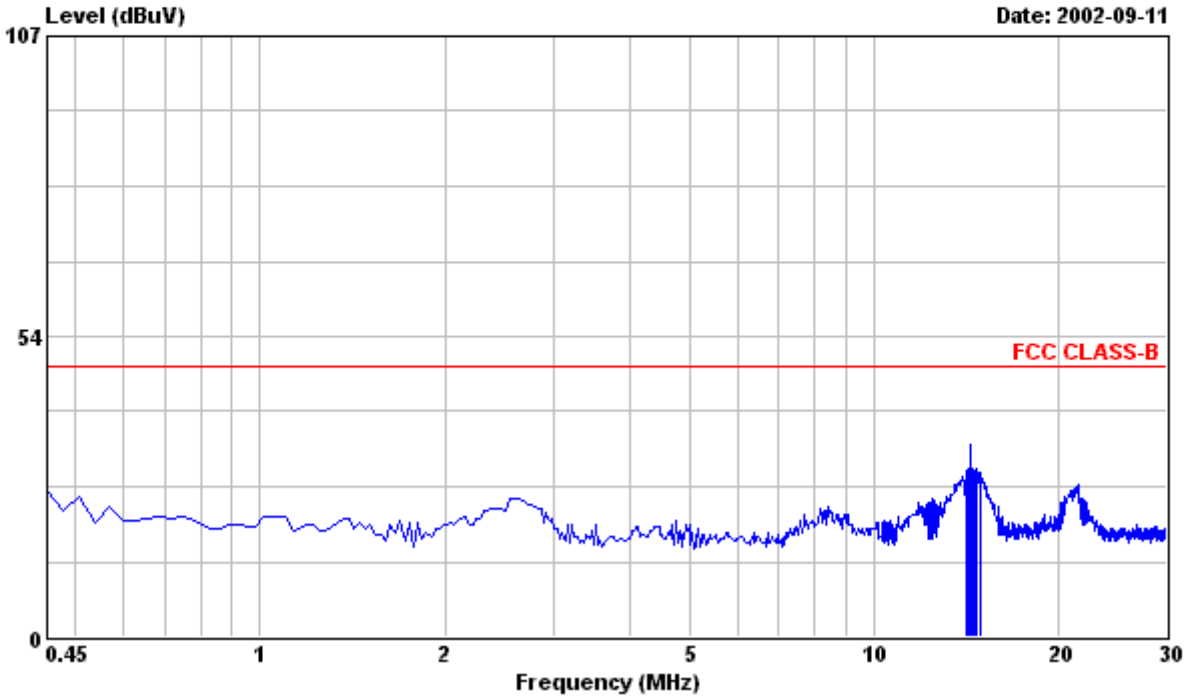
Data#: 8 File#: C:\Program Files\e3\EMI02-050-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 12 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	NEUTRAL
14.102	28.81	48.00	0.68	29.49	-18.51	
14.279	29.40	48.00	0.69	30.09	-17.91	
14.368	33.70	48.00	0.69	34.39	-13.61	
14.457	28.90	48.00	0.69	29.59	-18.41	
14.516	29.10	48.00	0.69	29.79	-18.21	
14.634	29.00	48.00	0.69	29.69	-18.31	
14.693	29.21	48.00	0.69	29.90	-18.10	
14.870	28.70	48.00	0.70	29.40	-18.60	

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

Tested by : C C.Wu

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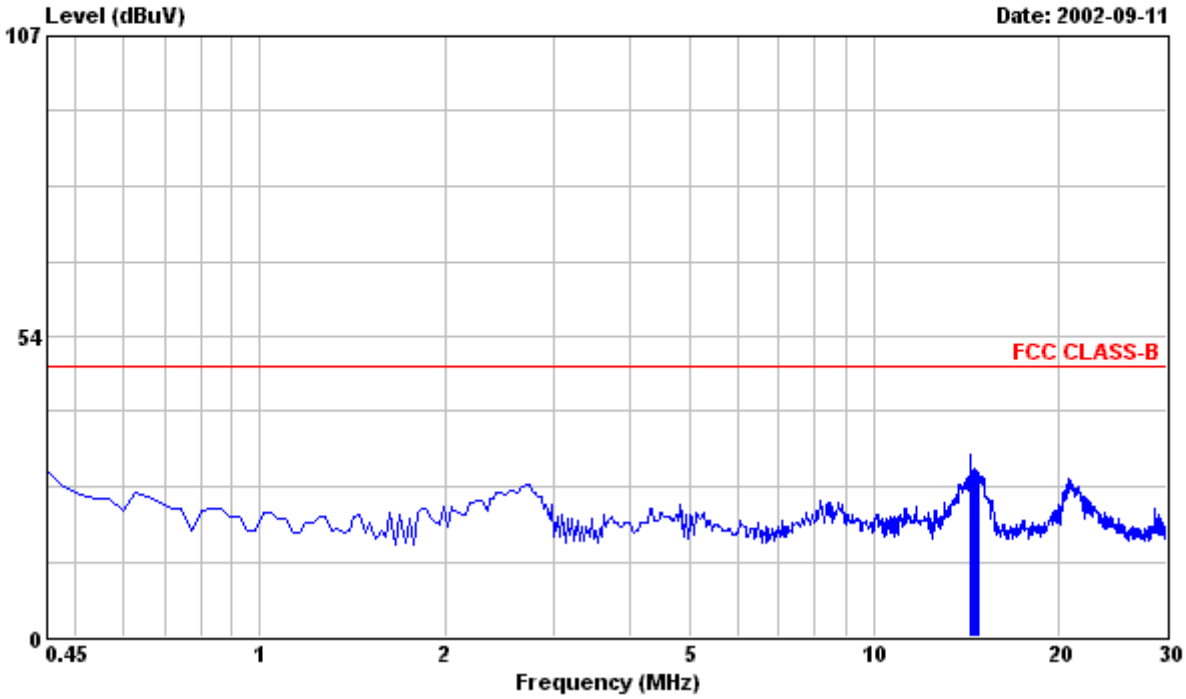
Data#: 9 File#: C:\Program Files\e3\EMI02-050-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	LINE
0.450	29.30	48.00	0.20	29.50	-18.50	
14.398	31.60	48.00	0.69	32.29	-15.71	
14.516	28.90	48.00	0.69	29.59	-18.41	
14.575	28.60	48.00	0.69	29.29	-18.71	
14.634	29.20	48.00	0.69	29.89	-18.11	
14.693	29.01	48.00	0.69	29.70	-18.30	
14.752	28.60	48.00	0.70	29.30	-18.70	
14.811	28.60	48.00	0.70	29.30	-18.70	

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

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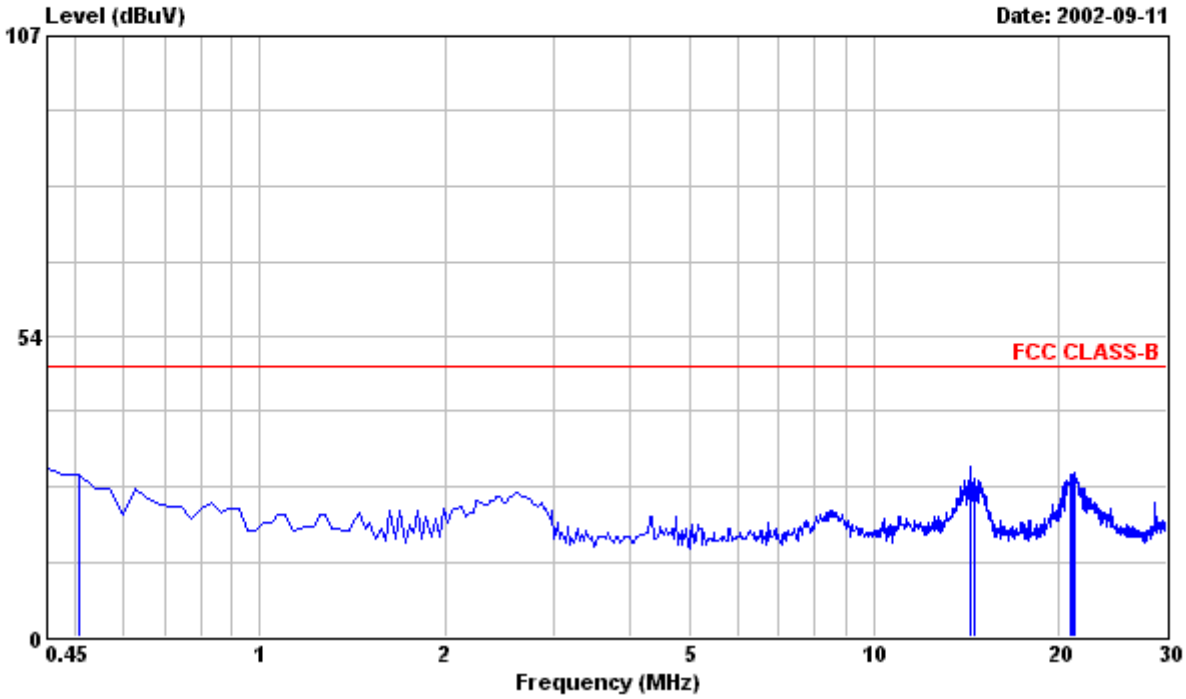
Data#: 10 File#: C:\Program Files\e3\EMI02-050-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	NEUTRAL
0.450	29.60	48.00	0.20	29.80	-18.20	
0.509	28.50	48.00	0.23	28.73	-19.27	
14.398	29.70	48.00	0.69	30.39	-17.61	
14.634	27.50	48.00	0.69	28.19	-19.81	
20.958	27.80	48.00	0.92	28.72	-19.28	
21.076	27.80	48.00	0.92	28.72	-19.28	
21.253	28.30	48.00	0.93	29.23	-18.77	
21.312	27.40	48.00	0.93	28.33	-19.67	

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

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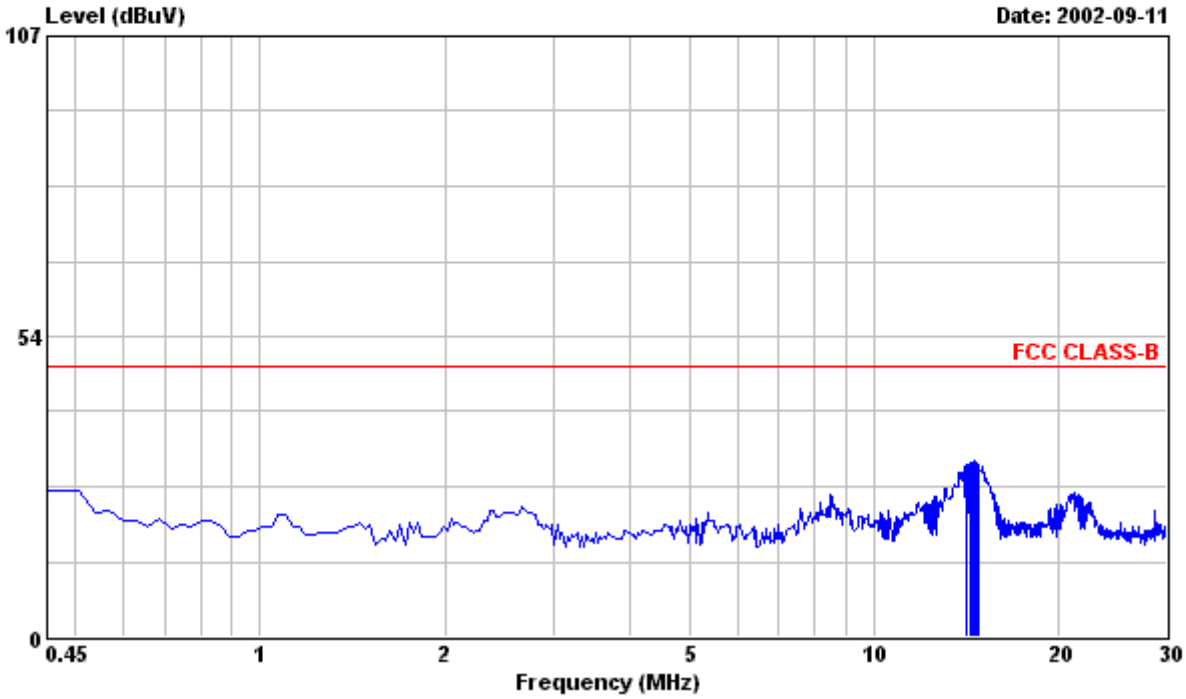

Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	LINE
14.161	30.10	48.00	0.69	30.79	-17.21	
14.398	30.40	48.00	0.69	31.09	-16.91	
14.457	30.20	48.00	0.69	30.89	-17.11	
14.516	29.90	48.00	0.69	30.59	-17.41	
14.575	30.60	48.00	0.69	31.29	-16.71	
14.634	30.30	48.00	0.69	30.99	-17.01	
14.693	30.21	48.00	0.69	30.90	-17.10	
14.752	30.10	48.00	0.70	30.80	-17.20	

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

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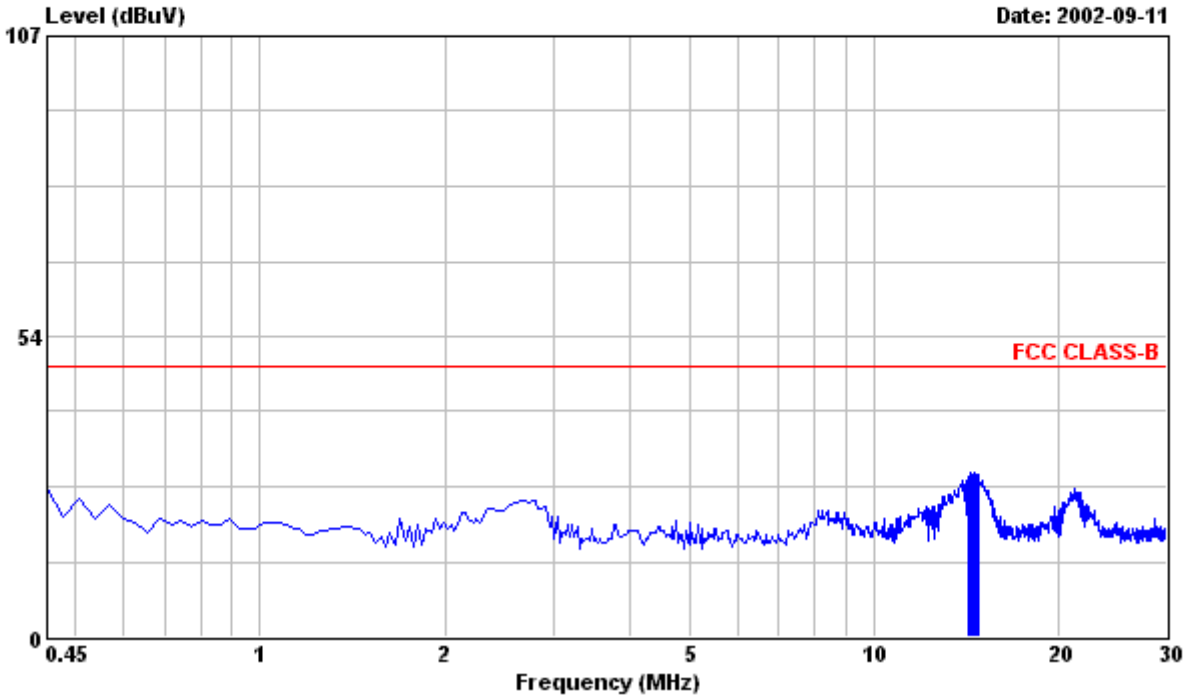
Data#: 12 File#: C:\Program Files\e3\EMI02-050-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Lavel dBuV	Over Limit dBuV	NEUTRAL
14.220	27.50	48.00	0.69	28.19	-19.81	
14.279	27.70	48.00	0.69	28.39	-19.61	
14.339	27.90	48.00	0.69	28.59	-19.41	
14.398	28.60	48.00	0.69	29.29	-18.71	
14.457	28.10	48.00	0.69	28.79	-19.21	
14.575	28.40	48.00	0.69	29.09	-18.91	
14.693	28.31	48.00	0.69	29.00	-19.00	
14.752	28.20	48.00	0.70	28.90	-19.10	

Remarks: 1. All Readings are Peak .
2. Emission Lavel (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	: 11 Sep., 2002 to 14 Sep., 2002
Test Engineer	: C.C.Wu

For detail measurement results see next pages.

PHILIPS
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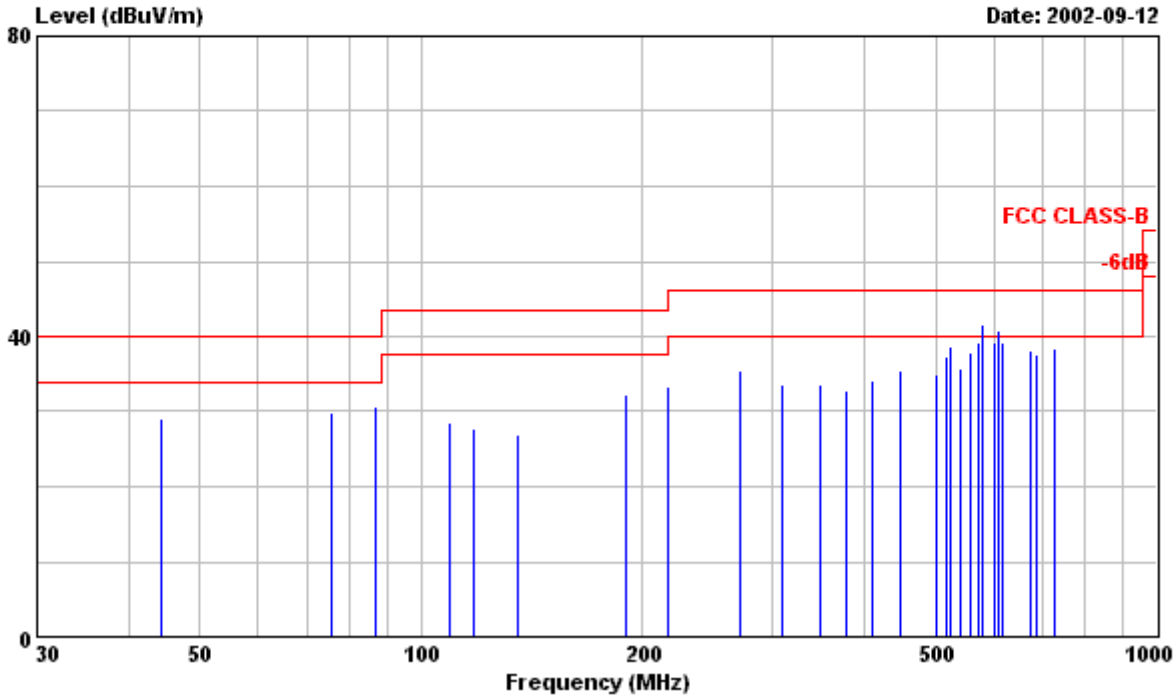
Data#: 1 File#: C:\Program Files\e3\EMI02-050-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel	Over Limit	Remark
					HORIZONTAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
44.390	17.40	---	40.00	11.57	28.97	-11.03	Peak
75.390	19.70	---	40.00	10.22	29.92	-10.08	Peak
86.830	20.00	---	40.00	10.75	30.75	-9.25	Peak
108.950	16.60	---	43.50	11.87	28.47	-15.03	Peak
117.820	15.50	---	43.50	12.29	27.79	-15.71	Peak
135.340	14.00	---	43.50	12.90	26.90	-16.60	Peak
189.720	16.90	---	43.50	15.35	32.25	-11.25	Peak
216.380	15.60	---	46.00	17.74	33.34	-12.66	Peak
270.460	13.70	---	46.00	21.64	35.34	-10.66	Peak
309.100	16.90	---	46.00	16.66	33.56	-12.44	Peak

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

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	Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel	Over Limit	Remark
						HORIZONTAL		
	MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
	347.740	16.20	---	46.00	17.46	33.66	-12.34	Peak
	378.650	14.70	---	46.00	18.02	32.72	-13.28	Peak
	409.560	15.50	---	46.00	18.52	34.02	-11.98	Peak
	448.200	16.50	---	46.00	19.06	35.56	-10.44	Peak
	502.280	15.20	---	46.00	19.76	34.96	-11.04	Peak
	517.750	17.30	---	46.00	19.99	37.29	-8.71	Peak
	525.480	18.50	---	46.00	20.13	38.63	-7.37	Peak
	540.930	15.50	---	46.00	20.36	35.86	-10.14	Peak
	556.380	17.20	---	46.00	20.59	37.79	-8.21	Peak
	571.830	18.40	---	46.00	20.83	39.23	-6.77	Peak
!	579.570	20.80	---	46.00	20.91	41.71	-4.29	Peak
	579.570	---	17.87	46.00	20.91	38.78	-7.22	QP
	602.750	18.00	---	46.00	21.30	39.30	-6.70	Peak
!	610.470	19.40	---	46.00	21.46	40.86	-5.14	Peak
	610.470	---	17.03	46.00	21.46	38.49	-7.51	QP
	618.210	17.40	---	46.00	21.67	39.07	-6.93	Peak
	672.290	15.30	---	46.00	22.92	38.22	-7.78	Peak
	687.750	14.30	---	46.00	23.24	37.54	-8.46	Peak
	726.380	14.50	---	46.00	23.88	38.38	-7.62	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Lavel (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

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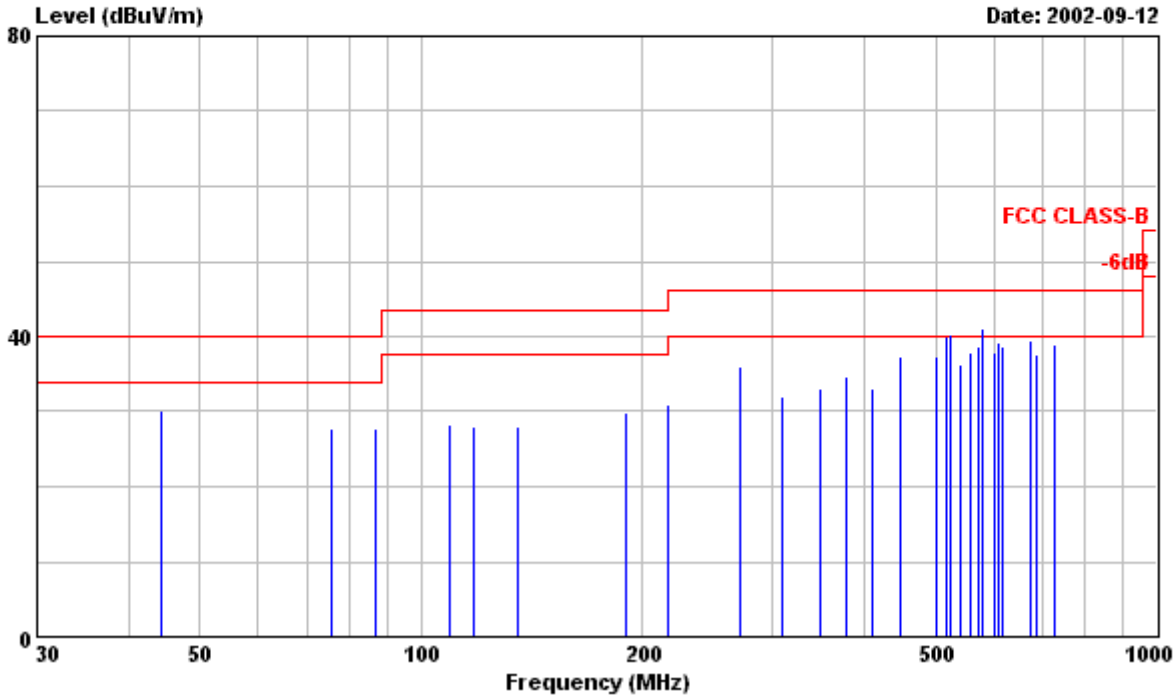
Data#: 2 File#: C:\Program Files\e3\EMI02-050-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel VERTICAL	Over Limit	Remark
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
44.390	18.50	---	40.00	11.57	30.07	-9.93	Peak
75.390	17.50	---	40.00	10.22	27.72	-12.28	Peak
86.830	16.90	---	40.00	10.75	27.65	-12.35	Peak
108.950	16.30	---	43.50	11.87	28.17	-15.33	Peak
117.820	15.70	---	43.50	12.29	27.99	-15.51	Peak
135.340	15.00	---	43.50	12.90	27.90	-15.60	Peak
189.720	14.40	---	43.50	15.35	29.75	-13.75	Peak
216.380	13.20	---	46.00	17.74	30.94	-15.06	Peak
270.460	14.30	---	46.00	21.64	35.94	-10.06	Peak
309.100	15.30	---	46.00	16.66	31.96	-14.04	Peak

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

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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel	Over Limit	Remark
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
347.740	15.50	---	46.00	17.46	32.96	-13.04	Peak
378.650	16.70	---	46.00	18.02	34.72	-11.28	Peak
409.560	14.50	---	46.00	18.52	33.02	-12.98	Peak
448.200	18.20	---	46.00	19.06	37.26	-8.74	Peak
502.280	17.60	---	46.00	19.76	37.36	-8.64	Peak
517.750	19.90	---	46.00	19.99	39.89	-6.11	Peak
! 525.480	20.10	---	46.00	20.13	40.23	-5.77	Peak
525.480	---	17.51	46.00	20.13	37.64	-8.36	QP
540.930	15.90	---	46.00	20.36	36.26	-9.74	Peak
556.380	17.30	---	46.00	20.59	37.89	-8.11	Peak
571.830	17.79	---	46.00	20.83	38.62	-7.38	Peak
! 579.570	20.20	---	46.00	20.91	41.11	-4.89	Peak
579.570	---	17.58	46.00	20.91	38.49	-7.51	QP
602.750	16.60	---	46.00	21.30	37.90	-8.10	Peak
610.470	17.80	---	46.00	21.46	39.26	-6.74	Peak
618.210	17.00	---	46.00	21.67	38.67	-7.33	Peak
672.290	16.60	---	46.00	22.92	39.52	-6.48	Peak
687.750	14.30	---	46.00	23.24	37.54	-8.46	Peak
726.380	15.00	---	46.00	23.88	38.88	-7.12	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Lavel (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

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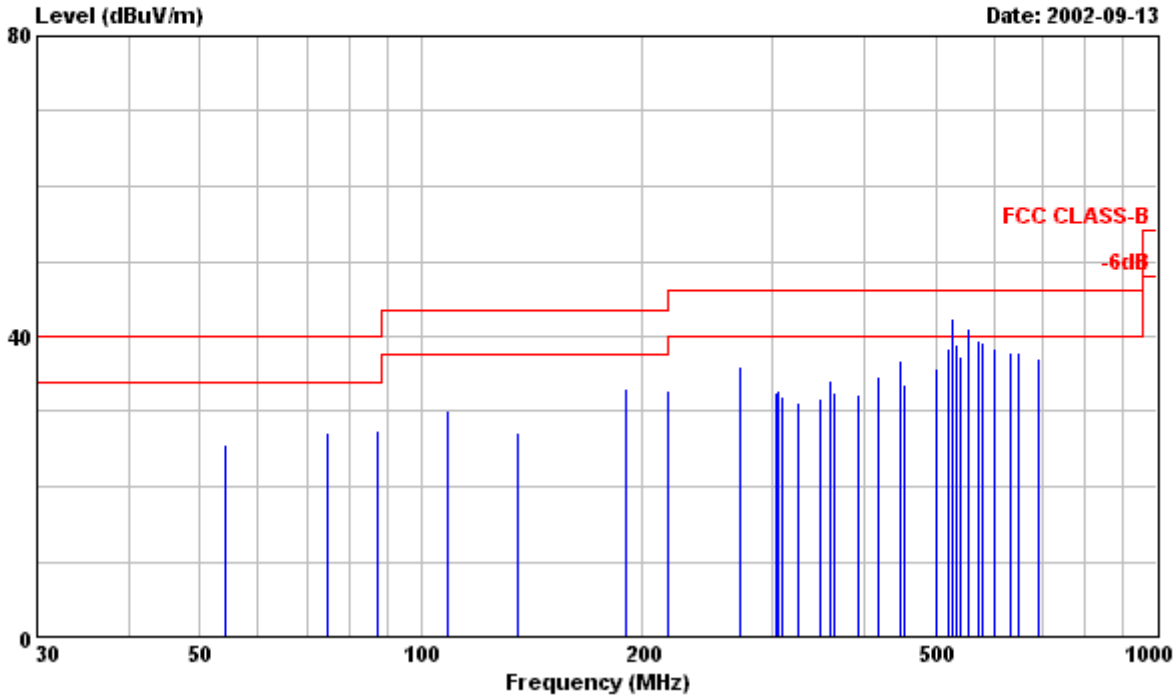

Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 12 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency MHz	Peak Reading dBuV	QP reading dBuV	Limit dBuV/m	Factor dB/m	Emission Lavel HORIZONTAL dBuV/m	Over Limit dBuV/m	Remark
54.060	15.40	---	40.00	10.42	25.82	-14.18	Peak
74.300	17.00	---	40.00	10.18	27.18	-12.82	Peak
87.120	16.60	---	40.00	10.76	27.36	-12.64	Peak
108.480	18.40	---	43.50	11.85	30.25	-13.25	Peak
135.320	14.20	---	43.50	12.90	27.10	-16.40	Peak
189.720	17.60	---	43.50	15.35	32.95	-10.55	Peak
216.350	15.00	---	46.00	17.74	32.74	-13.26	Peak
270.430	14.40	---	46.00	21.64	36.04	-9.96	Peak
302.860	15.90	---	46.00	16.52	32.42	-13.58	Peak
306.460	16.20	---	46.00	16.62	32.82	-13.18	Peak

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

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	Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel	Over Limit	Remark
						HORIZONTAL		
	MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
	310.080	15.40	---	46.00	16.69	32.09	-13.91	Peak
	324.490	14.20	---	46.00	16.99	31.19	-14.81	Peak
	348.330	14.40	---	46.00	17.46	31.86	-14.14	Peak
	360.070	16.70	---	46.00	17.70	34.40	-11.60	Peak
	364.170	14.70	---	46.00	17.77	32.47	-13.53	Peak
	393.000	13.90	---	46.00	18.28	32.18	-13.82	Peak
	418.250	16.00	---	46.00	18.65	34.65	-11.35	Peak
	447.080	17.80	---	46.00	19.04	36.84	-9.16	Peak
	454.310	14.50	---	46.00	19.14	33.64	-12.36	Peak
	501.160	15.90	---	46.00	19.73	35.63	-10.37	Peak
	519.200	18.30	---	46.00	20.02	38.32	-7.68	Peak
!	526.410	---	20.73	46.00	20.13	40.86	-5.14	QP
!	526.410	22.40	---	46.00	20.13	42.53	-3.47	Peak
	533.620	18.70	---	46.00	20.25	38.95	-7.05	Peak
	540.830	16.90	---	46.00	20.36	37.26	-8.74	Peak
	555.250	---	17.81	46.00	20.57	38.38	-7.62	QP
!	555.250	20.60	---	46.00	20.57	41.17	-4.83	Peak
	573.260	18.70	---	46.00	20.83	39.53	-6.47	Peak
	580.490	18.30	---	46.00	20.94	39.24	-6.76	Peak
	600.120	17.10	---	46.00	21.20	38.30	-7.70	Peak
	634.580	15.80	---	46.00	22.04	37.84	-8.16	Peak
	648.980	15.40	---	46.00	22.40	37.80	-8.20	Peak
	688.650	13.90	---	46.00	23.29	37.19	-8.81	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Lavel (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

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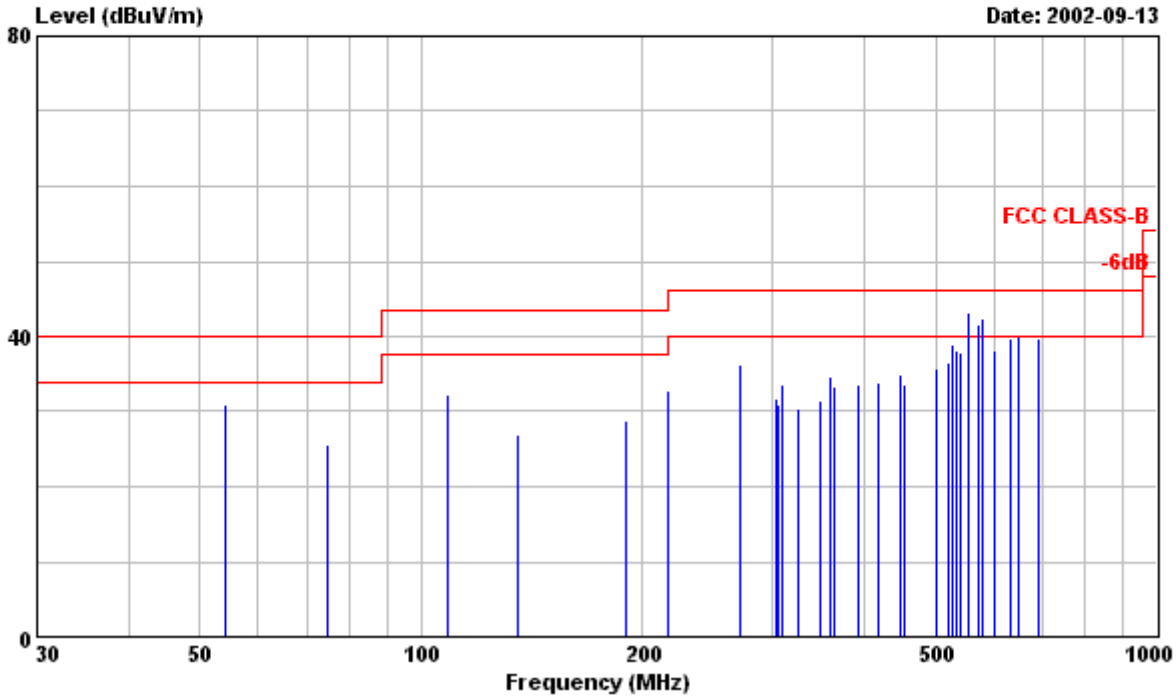

Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 12 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel VERTICAL	Over Limit	Remark
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
54.060	20.40	---	40.00	10.42	30.82	-9.18	Peak
74.300	15.60	---	40.00	10.18	25.78	-14.22	Peak
108.480	20.50	---	43.50	11.85	32.35	-11.15	Peak
135.320	13.90	---	43.50	12.90	26.80	-16.70	Peak
189.720	13.50	---	43.50	15.35	28.85	-14.65	Peak
216.350	15.00	---	46.00	17.74	32.74	-13.26	Peak
270.430	14.70	---	46.00	21.64	36.34	-9.66	Peak
302.860	15.30	---	46.00	16.52	31.82	-14.18	Peak
306.460	14.40	---	46.00	16.62	31.02	-14.98	Peak
310.080	16.80	---	46.00	16.69	33.49	-12.51	Peak

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

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	Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel VERTICAL	Over Limit	Remark
	MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
	324.490	13.50	---	46.00	16.99	30.49	-15.51	Peak
	348.330	14.10	---	46.00	17.46	31.56	-14.44	Peak
	360.070	17.10	---	46.00	17.70	34.80	-11.20	Peak
	364.170	15.70	---	46.00	17.77	33.47	-12.53	Peak
	393.000	15.40	---	46.00	18.28	33.68	-12.32	Peak
	418.250	15.10	---	46.00	18.65	33.75	-12.25	Peak
	447.080	16.00	---	46.00	19.04	35.04	-10.96	Peak
	454.310	14.50	---	46.00	19.14	33.64	-12.36	Peak
	501.160	15.90	---	46.00	19.73	35.63	-10.37	Peak
	519.200	16.40	---	46.00	20.02	36.42	-9.58	Peak
	526.410	18.80	---	46.00	20.13	38.93	-7.07	Peak
	533.620	17.80	---	46.00	20.25	38.05	-7.95	Peak
	540.830	17.40	---	46.00	20.36	37.76	-8.24	Peak
!	555.250	22.60	---	46.00	20.57	43.17	-2.83	Peak
!	555.250	---	20.55	46.00	20.57	41.12	-4.88	QP
	573.260	---	18.32	46.00	20.83	39.15	-6.85	QP
!	573.260	20.90	---	46.00	20.83	41.73	-4.27	Peak
!	580.490	21.40	---	46.00	20.94	42.34	-3.66	Peak
!	580.490	---	19.60	46.00	20.94	40.54	-5.46	QP
	600.120	16.90	---	46.00	21.20	38.10	-7.90	Peak
	634.580	17.80	---	46.00	22.04	39.84	-6.16	Peak
	648.980	17.50	---	46.00	22.40	39.90	-6.10	Peak
	688.650	16.40	---	46.00	23.29	39.69	-6.31	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Lavel (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

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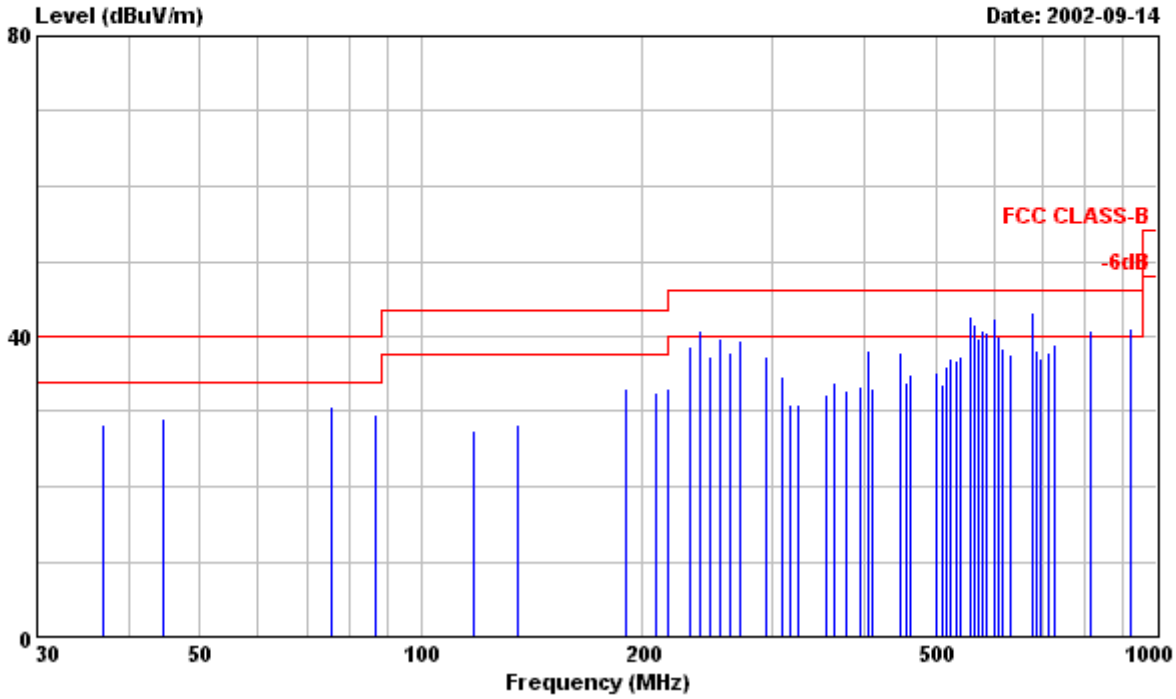

Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel	Over Limit	Remark
					HORIZONTAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
36.850	15.20	---	40.00	12.95	28.15	-11.85	Peak
44.450	17.50	---	40.00	11.57	29.07	-10.93	Peak
75.340	20.40	---	40.00	10.22	30.62	-9.38	Peak
86.850	18.90	---	40.00	10.75	29.65	-10.35	Peak
117.840	15.30	---	43.50	12.29	27.59	-15.91	Peak
135.240	15.50	---	43.50	12.89	28.39	-15.11	Peak
189.720	17.70	---	43.50	15.35	33.05	-10.45	Peak
208.650	15.40	---	43.50	17.09	32.49	-11.01	Peak
216.380	15.40	---	46.00	17.74	33.14	-12.86	Peak
231.830	19.60	---	46.00	19.06	38.66	-7.34	Peak

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

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	Frequency MHz	Peak Reading dBuV	QP reading dBuV	Limit dBuV/m	Factor dB/m	Emission Lavel HORIZONTAL dBuV/m	Over Limit dBuV/m	Remark
	239.560	---	20.06	46.00	19.65	39.71	-6.29	QP
!	239.560	21.20	---	46.00	19.65	40.85	-5.15	Peak
	247.280	17.10	---	46.00	20.30	37.40	-8.60	Peak
	255.010	19.10	---	46.00	20.76	39.86	-6.14	Peak
	262.740	16.60	---	46.00	21.23	37.83	-8.17	Peak
	270.470	17.80	---	46.00	21.64	39.44	-6.56	Peak
	293.660	14.50	---	46.00	22.89	37.39	-8.61	Peak
	309.100	18.00	---	46.00	16.66	34.66	-11.34	Peak
	316.830	14.20	---	46.00	16.83	31.03	-14.97	Peak
	324.550	13.90	---	46.00	16.99	30.89	-15.11	Peak
	355.470	14.70	---	46.00	17.60	32.30	-13.70	Peak
	363.200	16.20	---	46.00	17.74	33.94	-12.06	Peak
	378.650	14.70	---	46.00	18.02	32.72	-13.28	Peak
	394.100	15.10	---	46.00	18.28	33.38	-12.62	Peak
	405.690	19.70	---	46.00	18.48	38.18	-7.82	Peak
	409.560	14.50	---	46.00	18.52	33.02	-12.98	Peak
	448.190	18.80	---	46.00	19.06	37.86	-8.14	Peak
	455.930	14.80	---	46.00	19.16	33.96	-12.04	Peak
	463.660	15.60	---	46.00	19.27	34.87	-11.13	Peak
	502.290	15.40	---	46.00	19.76	35.16	-10.84	Peak
	510.020	13.80	---	46.00	19.87	33.67	-12.33	Peak
	517.750	16.10	---	46.00	19.99	36.09	-9.91	Peak
	525.480	16.87	---	46.00	20.13	37.00	-9.00	Peak
	533.190	16.60	---	46.00	20.25	36.85	-9.15	Peak
	540.930	16.90	---	46.00	20.36	37.26	-8.74	Peak
!	556.380	22.00	---	46.00	20.59	42.59	-3.41	Peak
!	556.380	---	19.83	46.00	20.59	40.42	-5.58	QP
!	564.110	20.90	---	46.00	20.71	41.61	-4.39	Peak
	564.110	---	18.34	46.00	20.71	39.05	-6.95	QP
	571.820	19.00	---	46.00	20.83	39.83	-6.17	Peak
!	579.560	19.80	---	46.00	20.91	40.71	-5.29	Peak
	579.560	---	17.31	46.00	20.91	38.22	-7.78	QP
!	587.290	19.60	---	46.00	21.03	40.63	-5.37	Peak
	587.290	---	16.48	46.00	21.03	37.51	-8.49	QP
!	600.110	21.20	---	46.00	21.20	42.40	-3.60	Peak
!	600.110	---	19.46	46.00	21.20	40.66	-5.34	QP
	602.750	16.70	---	46.00	21.30	38.00	-8.00	Peak
	610.470	18.50	---	46.00	21.46	39.96	-6.04	Peak
	618.200	16.80	---	46.00	21.67	38.47	-7.53	Peak
	633.650	15.60	---	46.00	22.04	37.64	-8.36	Peak
!	676.150	20.30	---	46.00	22.98	43.28	-2.72	Peak
!	676.150	---	17.89	46.00	22.98	40.87	-5.13	QP
	687.750	15.00	---	46.00	23.24	38.24	-7.76	Peak
	695.480	13.70	---	46.00	23.40	37.10	-8.90	Peak
	710.930	14.30	---	46.00	23.67	37.97	-8.03	Peak
	726.380	15.00	---	46.00	23.88	38.88	-7.12	Peak

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

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Frequency MHz	Peak Reading dBuV	QP reading dBuV	Limit dBuV/m	Factor dB/m	Emission Lavel HORIZONTAL dBuV/m	Over Limit dBuV/m	Remark
! 811.370	15.80	---	46.00	24.98	40.78	-5.22	Peak
811.370	---	11.02	46.00	24.98	36.00	-10.00	QP
! 919.560	14.40	---	46.00	26.56	40.96	-5.04	Peak
919.560	---	10.33	46.00	26.56	36.89	-9.11	QP

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Lavel (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

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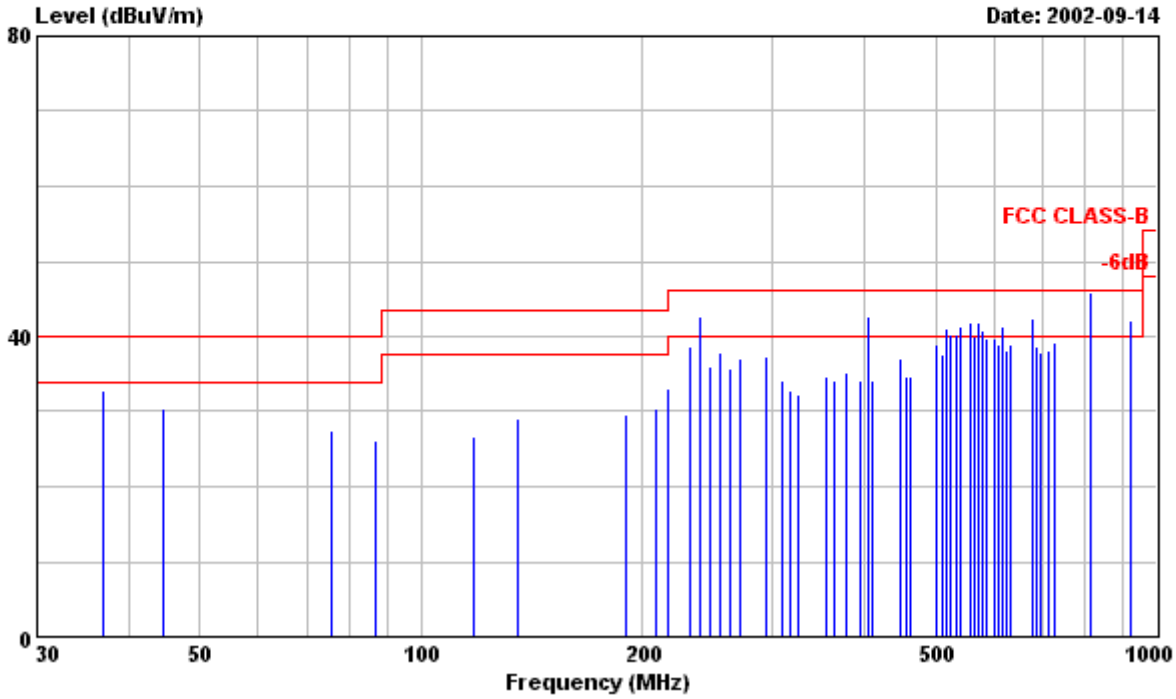

Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 180P2 Serial No:TY0207434
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel VERTICAL	Over Limit	Remark
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
36.850	19.90	---	40.00	12.95	32.85	-7.15	Peak
44.450	18.80	---	40.00	11.57	30.37	-9.63	Peak
75.340	17.30	---	40.00	10.22	27.52	-12.48	Peak
86.850	15.30	---	40.00	10.75	26.05	-13.95	Peak
117.840	14.40	---	43.50	12.29	26.69	-16.81	Peak
135.240	16.20	---	43.50	12.89	29.09	-14.41	Peak
189.720	14.30	---	43.50	15.35	29.65	-13.85	Peak
208.650	13.40	---	43.50	17.09	30.49	-13.01	Peak
216.380	15.40	---	46.00	17.74	33.14	-12.86	Peak
231.830	19.50	---	46.00	19.06	38.56	-7.44	Peak

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

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	Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel	Over Limit	Remark
						VERTICAL		
	MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
!	239.560	---	21.85	46.00	19.65	41.50	-4.50	QP
!	239.560	23.10	---	46.00	19.65	42.75	-3.25	Peak
	247.280	15.60	---	46.00	20.30	35.90	-10.10	Peak
	255.010	17.00	---	46.00	20.76	37.76	-8.24	Peak
	262.740	14.50	---	46.00	21.23	35.73	-10.27	Peak
	270.470	15.30	---	46.00	21.64	36.94	-9.06	Peak
	293.660	14.50	---	46.00	22.89	37.39	-8.61	Peak
	309.100	17.60	---	46.00	16.66	34.26	-11.74	Peak
	316.830	15.90	---	46.00	16.83	32.73	-13.27	Peak
	324.550	15.20	---	46.00	16.99	32.19	-13.81	Peak
	355.470	17.00	---	46.00	17.60	34.60	-11.40	Peak
	363.200	16.60	---	46.00	17.74	34.34	-11.66	Peak
	378.650	17.30	---	46.00	18.02	35.32	-10.68	Peak
	394.100	15.80	---	46.00	18.28	34.08	-11.92	Peak
!	405.690	24.50	---	46.00	18.48	42.98	-3.02	Peak
!	405.690	---	23.15	46.00	18.48	41.63	-4.37	QP
	409.560	15.70	---	46.00	18.52	34.22	-11.78	Peak
	448.190	18.00	---	46.00	19.06	37.06	-8.94	Peak
	455.930	15.50	---	46.00	19.16	34.66	-11.34	Peak
	463.660	15.30	---	46.00	19.27	34.57	-11.43	Peak
	502.290	19.10	---	46.00	19.76	38.86	-7.14	Peak
	510.020	17.80	---	46.00	19.87	37.67	-8.33	Peak
	517.750	---	19.67	46.00	19.99	39.66	-6.34	QP
!	517.750	21.00	---	46.00	19.99	40.99	-5.01	Peak
	525.480	---	18.66	46.00	20.13	38.79	-7.21	QP
!	525.480	20.20	---	46.00	20.13	40.33	-5.67	Peak
	533.190	---	18.32	46.00	20.25	38.57	-7.43	QP
!	533.190	19.90	---	46.00	20.25	40.15	-5.85	Peak
!	540.930	21.00	---	46.00	20.36	41.36	-4.64	Peak
	540.930	---	19.49	46.00	20.36	39.85	-6.15	QP
!	556.380	21.40	---	46.00	20.59	41.99	-4.01	Peak
!	556.380	---	19.98	46.00	20.59	40.57	-5.43	QP
	564.110	19.20	---	46.00	20.71	39.91	-6.09	Peak
!	571.820	21.00	---	46.00	20.83	41.83	-4.17	Peak
	571.820	---	19.09	46.00	20.83	39.92	-6.08	QP
	579.560	---	17.82	46.00	20.91	38.73	-7.27	QP
!	579.560	20.00	---	46.00	20.91	40.91	-5.09	Peak
	587.290	18.70	---	46.00	21.03	39.73	-6.27	Peak
	600.110	18.40	---	46.00	21.20	39.60	-6.40	Peak
	602.750	16.30	---	46.00	21.30	37.60	-8.40	Peak
	610.470	17.60	---	46.00	21.46	39.06	-6.94	Peak
!	618.200	19.70	---	46.00	21.67	41.37	-4.63	Peak
	618.200	---	17.63	46.00	21.67	39.30	-6.70	QP
	625.910	16.20	---	46.00	21.83	38.03	-7.97	Peak
	633.650	16.80	---	46.00	22.04	38.84	-7.16	Peak
!	676.150	19.30	---	46.00	22.98	42.28	-3.72	Peak

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

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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Lavel	Over Limit	Remark
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
! 676.150	---	17.23	46.00	22.98	40.21	-5.79	QP
687.750	15.30	---	46.00	23.24	38.54	-7.46	Peak
695.480	14.50	---	46.00	23.40	37.90	-8.10	Peak
710.930	14.40	---	46.00	23.67	38.07	-7.93	Peak
726.380	15.20	---	46.00	23.88	39.08	-6.92	Peak
726.380	14.80	---	46.00	23.88	38.68	-7.32	Peak
! 811.370	---	17.45	46.00	24.98	42.43	-3.57	QP
! 811.370	20.90	---	46.00	24.98	45.88	-0.12	Peak
! 919.560	15.70	---	46.00	26.56	42.26	-3.74	Peak
919.560	---	13.10	46.00	26.56	39.66	-6.34	QP

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Lavel (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