



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.: TYR87-2008 Date : 16 April, 2002 Page : 1 of 40
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. : A3KM108 Model Name : 150X3 Serial Number : TY0205099 Description : 15" XGA LCD color monitor, Max. resolution 1024x768/75Hz		
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 : 26 Mar. 2002		
Date of performance of test : 29 Mar., 2002 to 01 Apr., 2002		
 C.C. Wu - EMC Test Engineer	 Ronnie Yang - EMC Manager NVLAP Signatory	

Philips Electronics Industries (Taiwan) Ltd

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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, 15" color monitor :

Model No. : 150X3
 FCC ID : A3KM108
 Brand : Philips

The color monitor automatically scans horizontal frequencies between 30KHz and 61KHz , 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 1024x768 pixels.

The monitor has 14 factory-preset modes as indicated in the following table:

Mode	Resolution	H. freq. / V. freq	Standard
1.	640 x 350	31.469Khz/70.087Hz	VGA
2.	720 x 400	31.469Khz/70.087Hz	VGA
3.	640 x 480	31.469Khz/59.940Hz	VGA
4.	640 x 480	35.000Khz/66.667Hz	Macintosh
5.	640 x 480	37.861Khz/72.809Hz	VESA
6.	640 x 480	37.500Khz/75.000Hz	VESA
7.	800 x 600	35.156Khz/56.250Hz	VESA
8.	800 x 600	37.879Khz/60.317Hz	VESA
9.	800 x 600	48.077Khz/72.188Hz	VESA
10.	800 x 600	46.875Khz/75.000Hz	VESA
11.	832 x 624	49.700Khz/75.000Hz	Macintosh
12.	1024 x 768	48.363Khz/60.004Hz	VESA
13.	1024 x 768	56.476Khz/70.069Hz	VESA
14.	1024 x 768	60.023Khz/75.029Hz	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	05/16/2001	05/16/2002
EMI Receiver	R & S ESCS30	830245/026	06/09/2001	06/08/2002
LISN	EMCO 3825/2	9311-2153	12/04/2001	06/04/2002
LISN	EMCO 3825/2	9311-2154	12/04/2001	06/04/2002
RF Cable	8-meter	N/A	05/28/2001	05/28/2002

- 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	05/28/2001	05/28/2002
Biconical Antenna	EMCO 3110B	3222	04/27/2001	04/27/2002
Biconical Antenna	EMCO 3110B	3224	04/27/2001	04/27/2002
Log-Periodic Antenna	EMCO 3146A	1424	04/27/2001	04/27/2002
Log-Periodic Antenna	EMCO 3146A	1425	04/27/2001	04/27/2002
Turn Table	EMCO 1060	1068	05/26/2001	05/26/2002
Antenna Tower	EMCO 1050	1113	05/26/2001	05/26/2002
RF Cable	M17/75-RG214-NE	N/A	05/26/2001	05/26/2002

4. Test Configuration of EUT and Peripherals

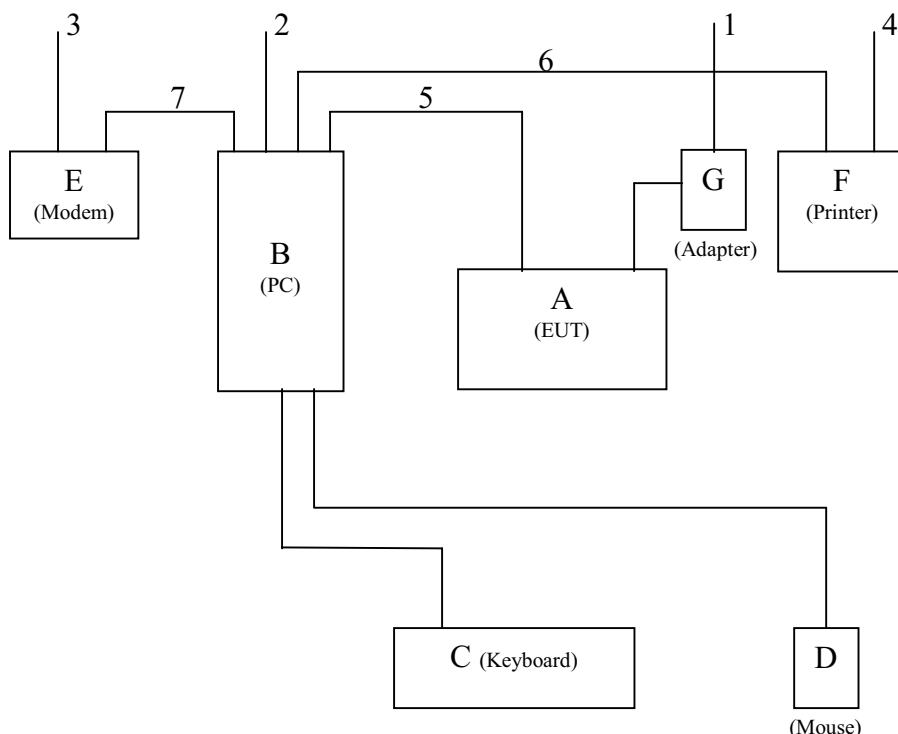
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “150X3” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	Philips 150X3	TY0205099	A3KM108	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	
G	AC Adapter	SAC SA165A-1250V-3P		FCC Doc	

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	Acceex	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	Acceex	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
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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 **3 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 used.

Audio cable with one ferrite core was used.

Tested and reported modes as following:

Test Item	File No.	Resolution	Frequencies	I/F Cable
Conducted	EMI02-011-C	1024x768	60KHz/75Hz	D-sub
		1024x768	60KHz/75Hz	DVI
		1024x768	48.3KHz/60Hz	D-sub
Radiated	EMI02-011-R	1024x768	60KHz/75Hz	D-sub
		1024x768	60KHz/75Hz	DVI
		1024x768	48.3KHz/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

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

: 29 Mar., 2002 to 01 Apr., 2002

Test Engineer

: C.C.Wu

For detail measurement results see next pages.

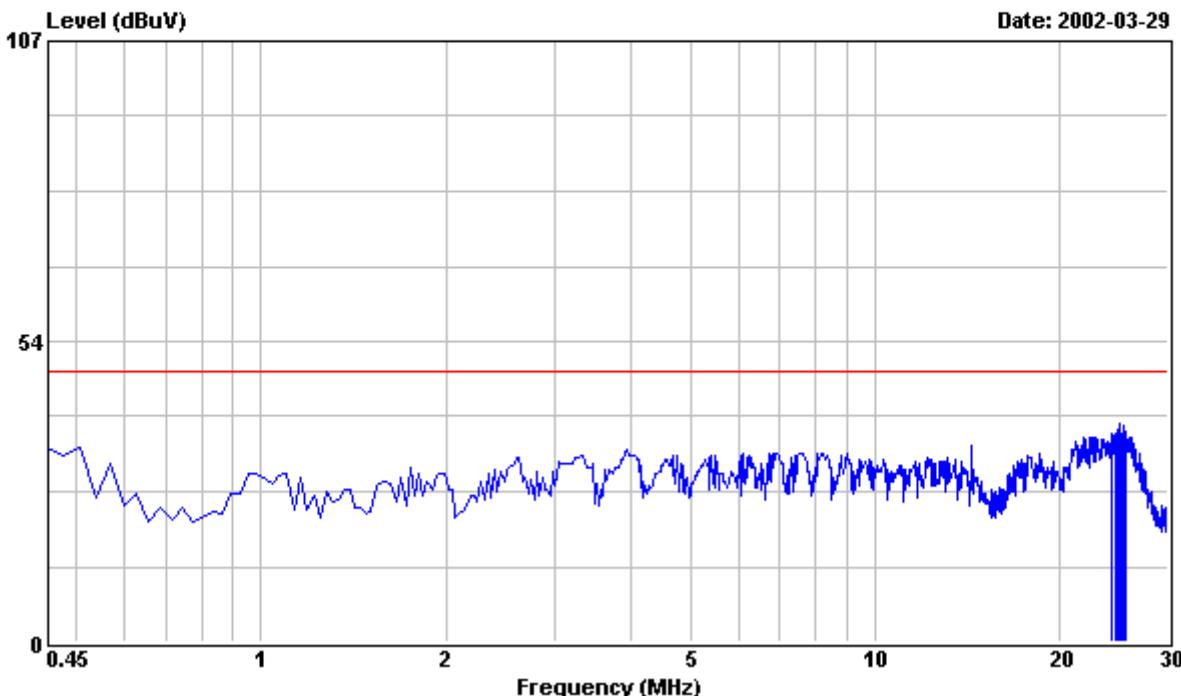


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Data#: 1

File#: C:\Program Files\em3\EMI02-011-C.emi



Site : PHILIPS EMI Shielding Room
 Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & D-SUB I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	Limit	Factor	Emission Level	Over Limit
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NEUTRAL					
MHz	dBuV	dBuV	dB	dBuV	dBuV

24.386	36.20	48.00	0.99	37.19	-10.81
24.740	36.01	48.00	0.99	37.00	-11.00
24.799	35.90	48.00	1.00	36.90	-11.10
24.977	37.70	48.00	1.00	38.70	-9.30
25.095	36.80	48.00	1.00	37.80	-10.20
25.331	36.10	48.00	0.99	37.09	-10.91
25.420	37.40	48.00	0.99	38.39	-9.61
25.597	36.50	48.00	0.99	37.49	-10.51

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

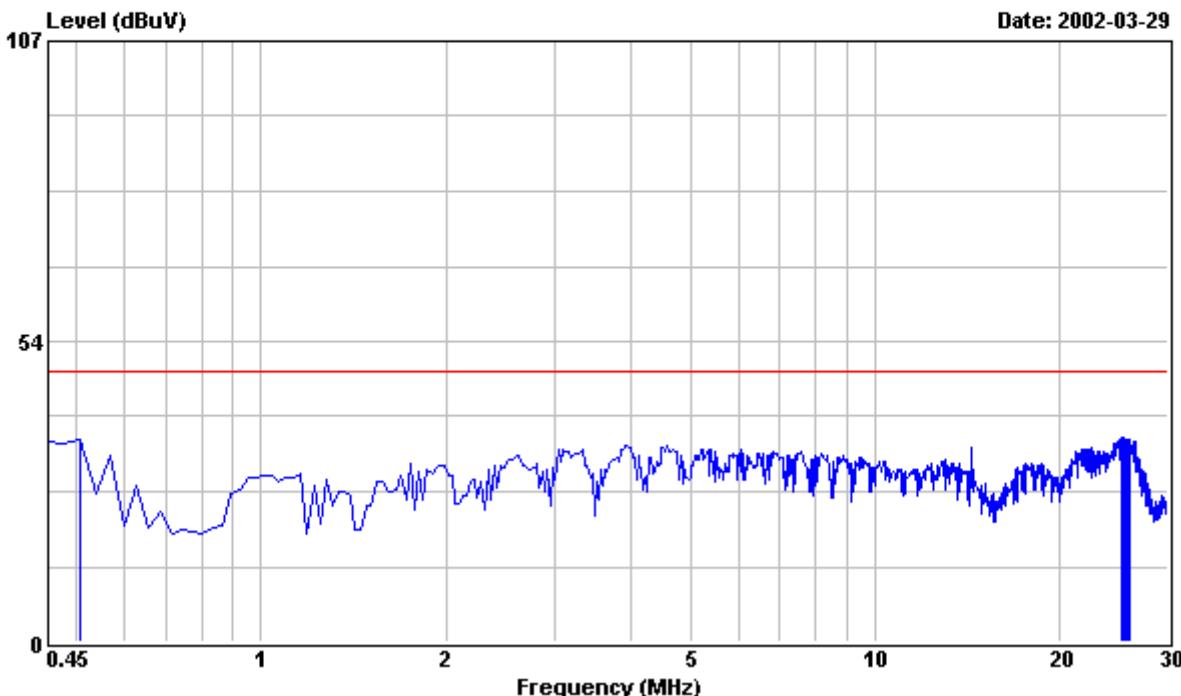


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Data#: 2

File#: C:\Program Files\em3\EMI02-011-C.emi



Site : PHILIPS EMI Shielding Room
 Condition : FCC CLASS-B FCC_LCI_L1 LINE
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S 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	Over Limit	
0.509	35.90	48.00	0.23	36.13	-11.87	
25.272	35.39	48.00	0.90	36.29	-11.71	
25.390	35.30	48.00	0.89	36.19	-11.81	
25.479	35.40	48.00	0.89	36.29	-11.71	
25.627	35.20	48.00	0.89	36.09	-11.91	
25.893	35.20	48.00	0.88	36.08	-11.92	
26.011	35.20	48.00	0.88	36.08	-11.92	

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

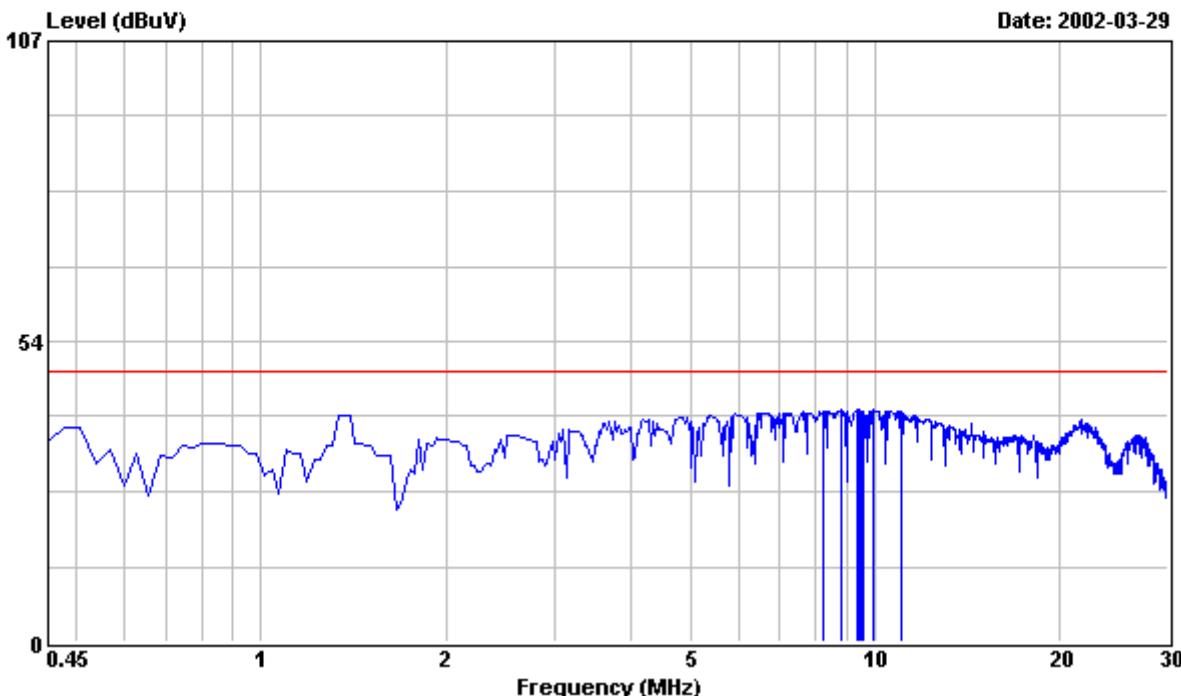


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Data#: 3

File#: C:\Program Files\em3\EMI02-011-C.emi



Site : PHILIPS EMI Shielding Room
 Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 220VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & D-SUB I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	Limit	Factor	Emission Level	Over Limit
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NEUTRAL					
MHz	dBuV	dBuV	dB	dBuV	dBuV
8.251	40.70	48.00	0.43	41.13	-6.87
8.842	40.90	48.00	0.49	41.39	-6.61
9.345	40.90	48.00	0.54	41.44	-6.56
9.433	40.70	48.00	0.55	41.25	-6.75
9.492	40.60	48.00	0.55	41.15	-6.85
9.610	40.60	48.00	0.56	41.16	-6.84
9.936	40.60	48.00	0.60	41.20	-6.80
11.029	40.50	48.00	0.62	41.12	-6.88

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

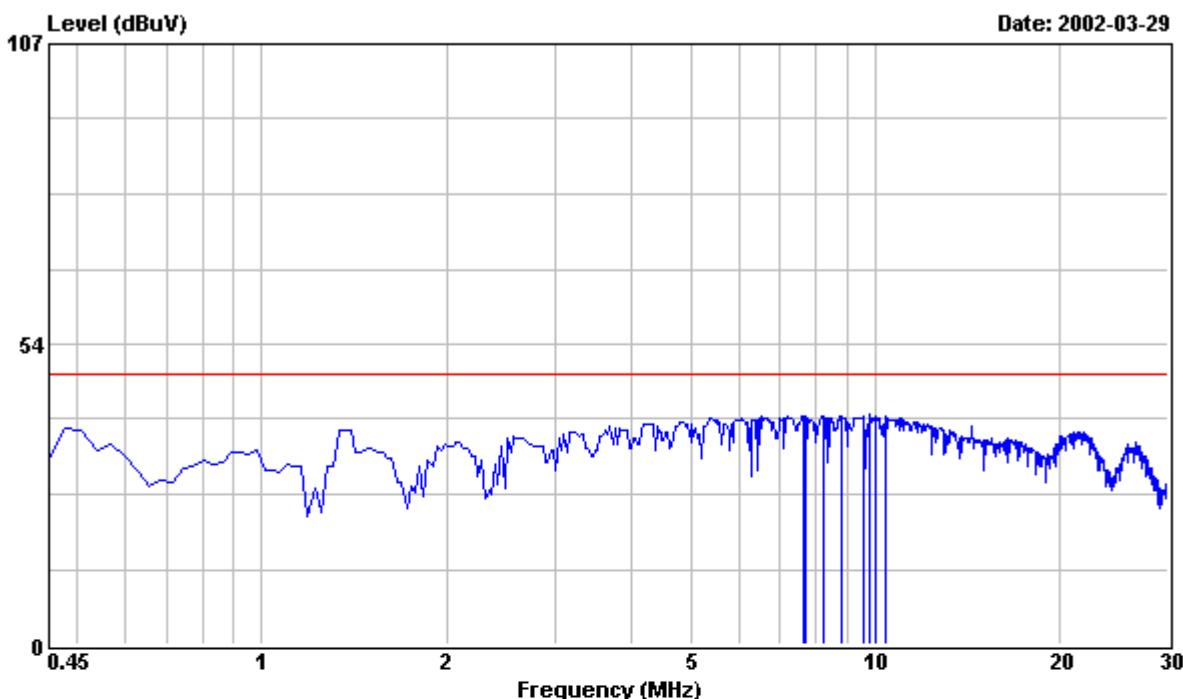


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Data#: 4

File#: C:\Program Files\em3\EMI02-011-C.emi



Site : PHILIPS EMI Shielding Room
 Condition : FCC CLASS-B FCC_LCI_L1 LINE
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 220VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & D-SUB I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	Limit	Factor	Emission Level	Over Limit
				LINE	
MHz	dBuV	dBuV	dB	dBuV	dBuV
7.660	40.20	48.00	0.40	40.60	-7.40
7.719	40.30	48.00	0.40	40.70	-7.30
8.251	40.20	48.00	0.43	40.63	-7.37
8.813	40.10	48.00	0.48	40.58	-7.42
9.551	40.00	48.00	0.56	40.56	-7.44
9.788	40.30	48.00	0.58	40.88	-7.12
10.024	39.90	48.00	0.60	40.50	-7.50
10.438	39.90	48.00	0.61	40.51	-7.49

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

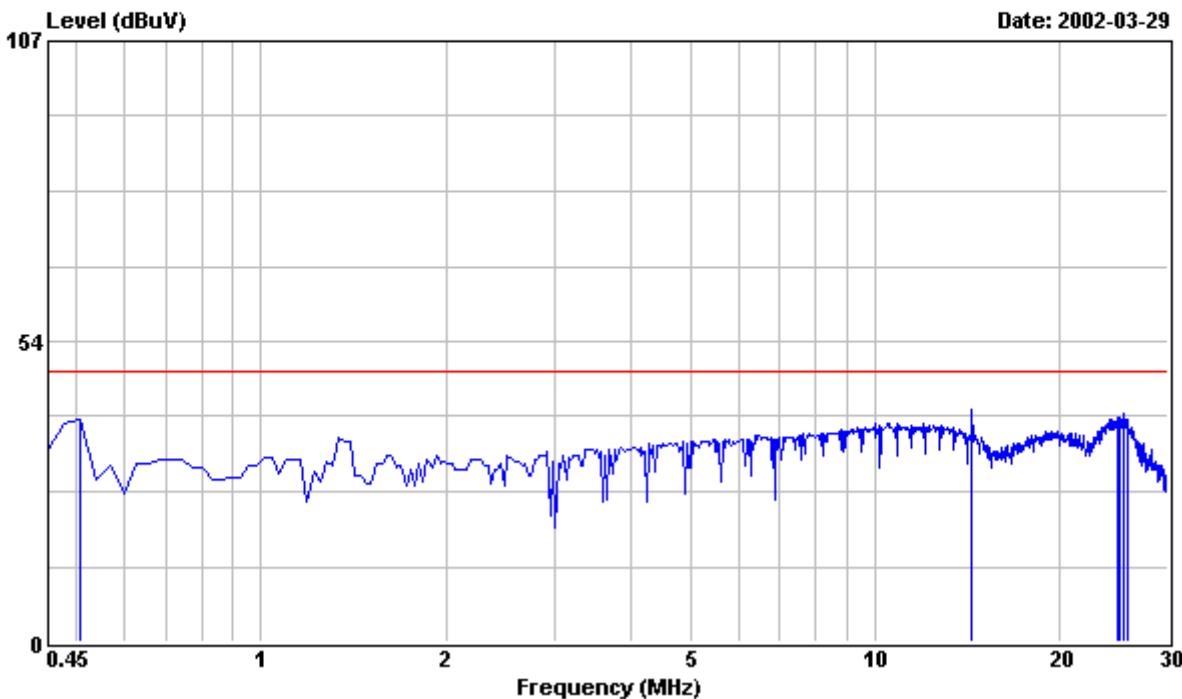


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 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	Limit	Factor	Emission Level	Over Limit
-----------	--------------	-------	--------	----------------	------------

MHz	dBuV	dBuV	dB	dBuV	dBuV
0.509	39.30	48.00	0.23	39.53	-8.47
14.398	40.70	48.00	0.69	41.39	-6.61
24.799	39.00	48.00	1.00	40.00	-8.00
24.917	38.50	48.00	1.00	39.50	-8.50
24.977	39.00	48.00	1.00	40.00	-8.00
25.124	38.60	48.00	1.00	39.60	-8.40
25.420	39.50	48.00	0.99	40.49	-7.51
25.774	38.60	48.00	0.98	39.58	-8.42

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

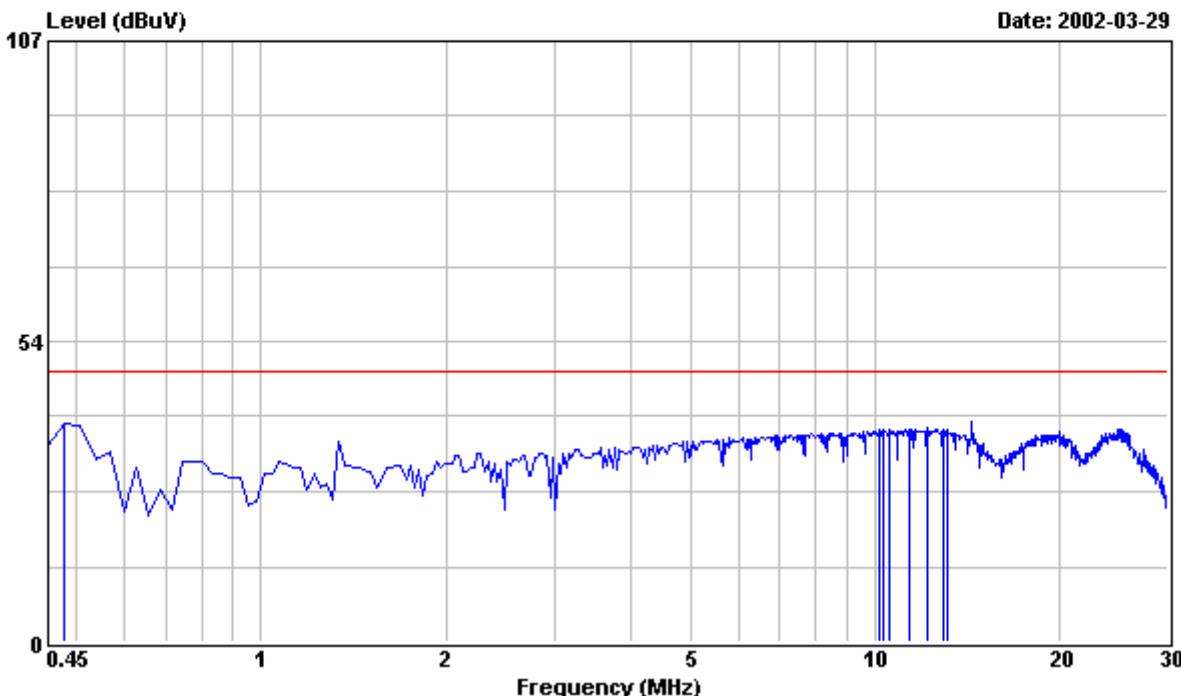


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Data#: 6

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 Condition : FCC CLASS-B FCC_LCI_L1 LINE
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV		Over Limit dBuV
				LINE	Over Limit	
0.480	38.50	48.00	0.22	38.72		-9.28
10.202	37.10	48.00	0.61	37.71		-10.29
10.320	37.10	48.00	0.61	37.71		-10.29
10.556	37.20	48.00	0.61	37.81		-10.19
11.413	37.30	48.00	0.63	37.93		-10.07
12.152	37.40	48.00	0.65	38.05		-9.95
12.920	37.10	48.00	0.66	37.76		-10.24
13.097	37.00	48.00	0.67	37.67		-10.33

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

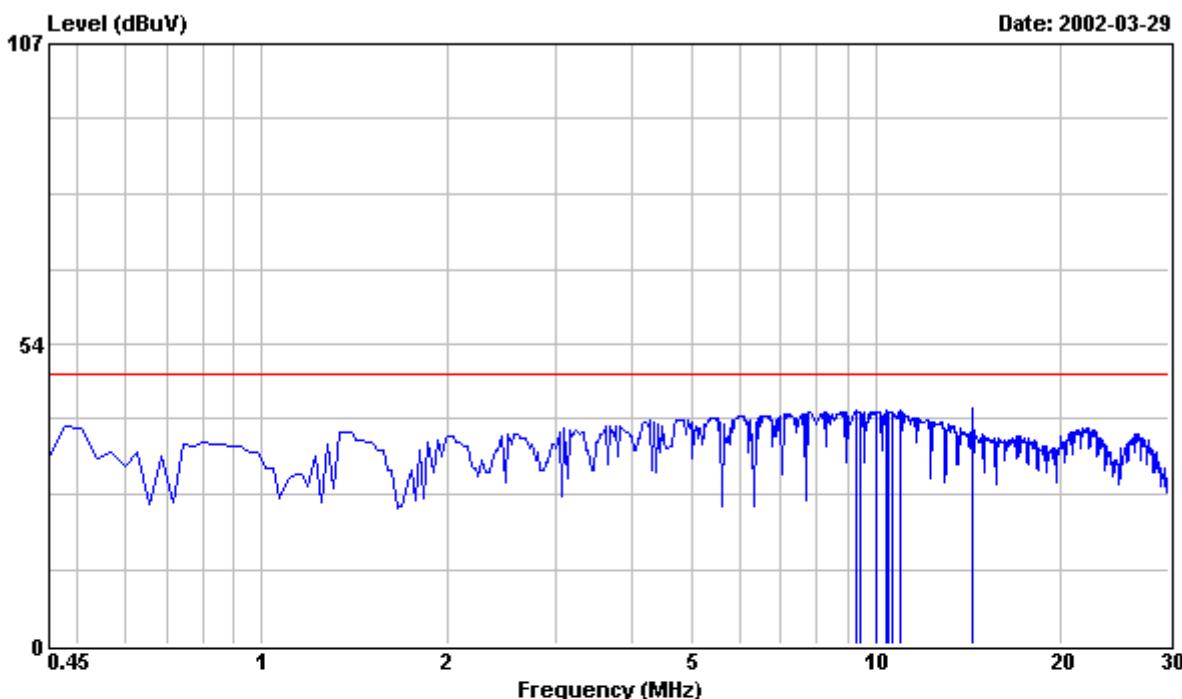


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 Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 220VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dB	dBuV	dBuV
9.315	41.10	48.00	0.54	41.64	-6.36
9.433	41.00	48.00	0.55	41.55	-6.45
10.024	40.90	48.00	0.60	41.50	-6.50
10.438	41.20	48.00	0.61	41.81	-6.19
10.497	40.80	48.00	0.61	41.41	-6.59
10.615	40.80	48.00	0.62	41.42	-6.58
10.970	41.10	48.00	0.62	41.72	-6.28
14.398	41.30	48.00	0.69	41.99	-6.01

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

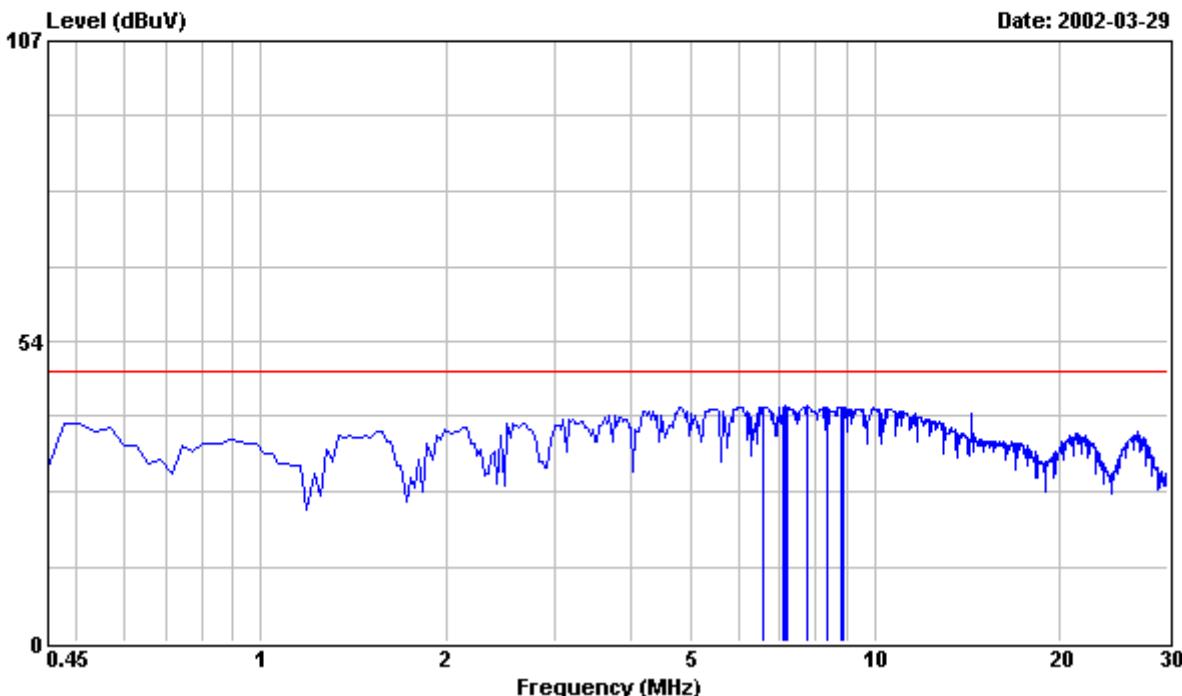


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Data#: 8

File#: C:\Program Files\e3\EMI02-011-C.emi



Site : PHILIPS EMI Shielding Room
 Condition : FCC CLASS-B FCC_LCI_L1 LINE
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 220VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	Limit	Factor	Emission Level	Over Limit
				LINE	
MHz	dBuV	dBuV	dB	dBuV	dBuV
6.596	41.50	48.00	0.40	41.90	-6.10
7.069	41.50	48.00	0.40	41.90	-6.10
7.128	41.70	48.00	0.40	42.10	-5.90
7.217	41.40	48.00	0.40	41.80	-6.20
7.778	41.60	48.00	0.40	42.00	-6.00
8.369	41.30	48.00	0.44	41.74	-6.26
8.842	41.30	48.00	0.49	41.79	-6.21
8.901	41.30	48.00	0.49	41.79	-6.21

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

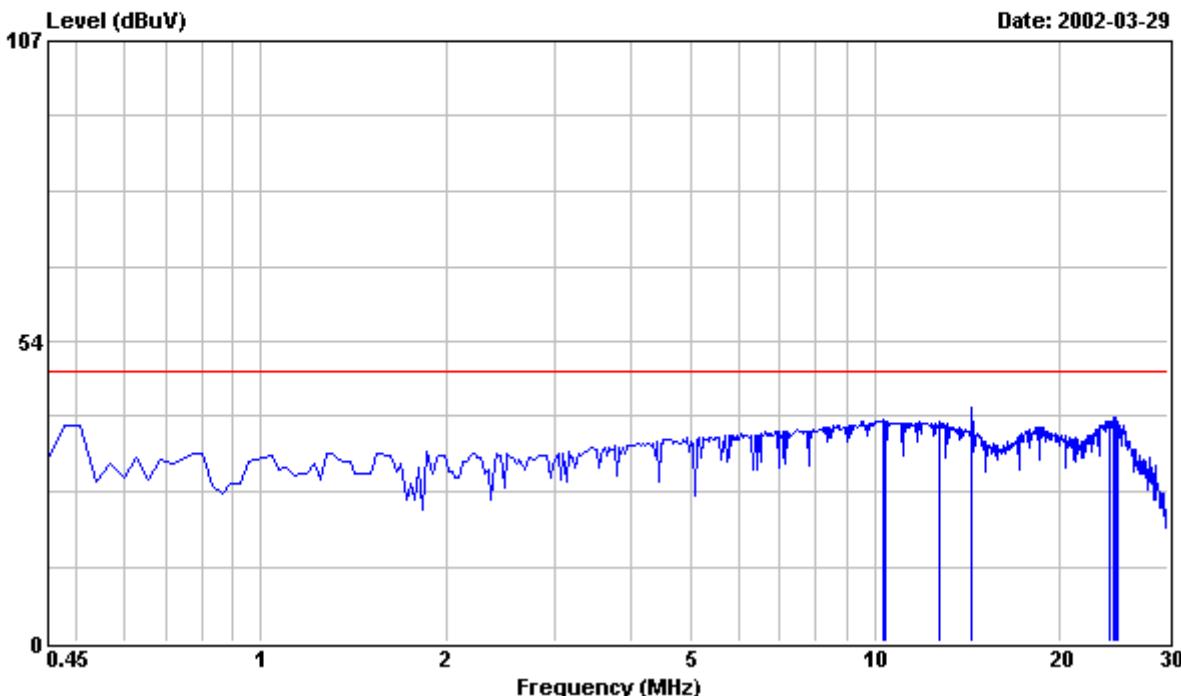


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Data#: 9

File#: C:\Program Files\em3\EMI02-011-C.emi



Site : PHILIPS EMI Shielding Room
 Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/60Hz 48.3KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	Limit	Factor	Emission Level		Over Limit
				NEUTRAL		
MHz	dBuV	dBuV	dB	dBuV	dBuV	
10.320	39.00	48.00	0.61	39.61	-8.39	
10.379	38.70	48.00	0.61	39.31	-8.69	
12.743	38.70	48.00	0.66	39.36	-8.64	
14.398	41.00	48.00	0.69	41.69	-6.31	
24.208	38.30	48.00	0.99	39.29	-8.71	
24.445	38.90	48.00	0.99	39.89	-8.11	
24.681	38.80	48.00	0.99	39.79	-8.21	
24.917	38.30	48.00	1.00	39.30	-8.70	

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

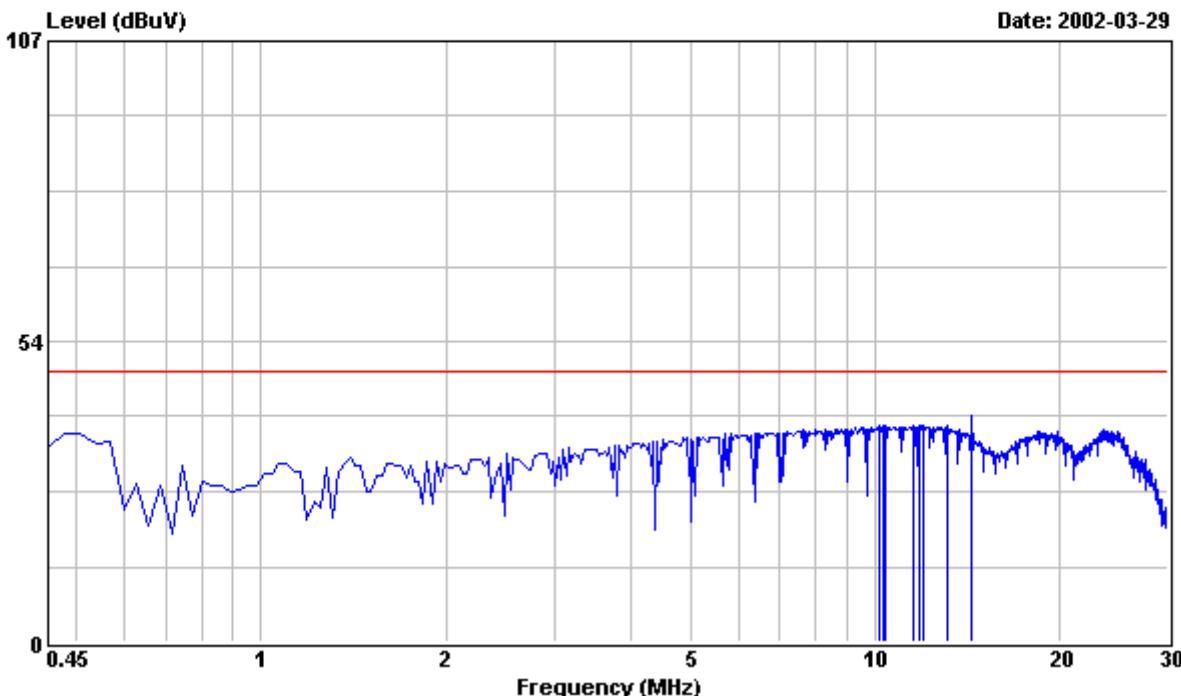


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Data#: 10

File#: C:\Program Files\e3\EMI02-011-C.emi



Site : PHILIPS EMI Shielding Room
 Condition : FCC CLASS-B FCC_LCI_L1 LINE
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/60Hz 48.3KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	Limit	Factor	Emission Level	Over Limit
				LINE	
MHz	dBuV	dBuV	dB	dBuV	dBuV
10.202	37.80	48.00	0.61	38.41	-9.59
10.320	37.90	48.00	0.61	38.51	-9.49
10.379	37.80	48.00	0.61	38.41	-9.59
11.561	37.80	48.00	0.64	38.44	-9.56
11.797	37.80	48.00	0.64	38.44	-9.56
11.975	37.90	48.00	0.64	38.54	-9.46
13.097	37.70	48.00	0.67	38.37	-9.63
14.398	39.50	48.00	0.69	40.19	-7.81

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

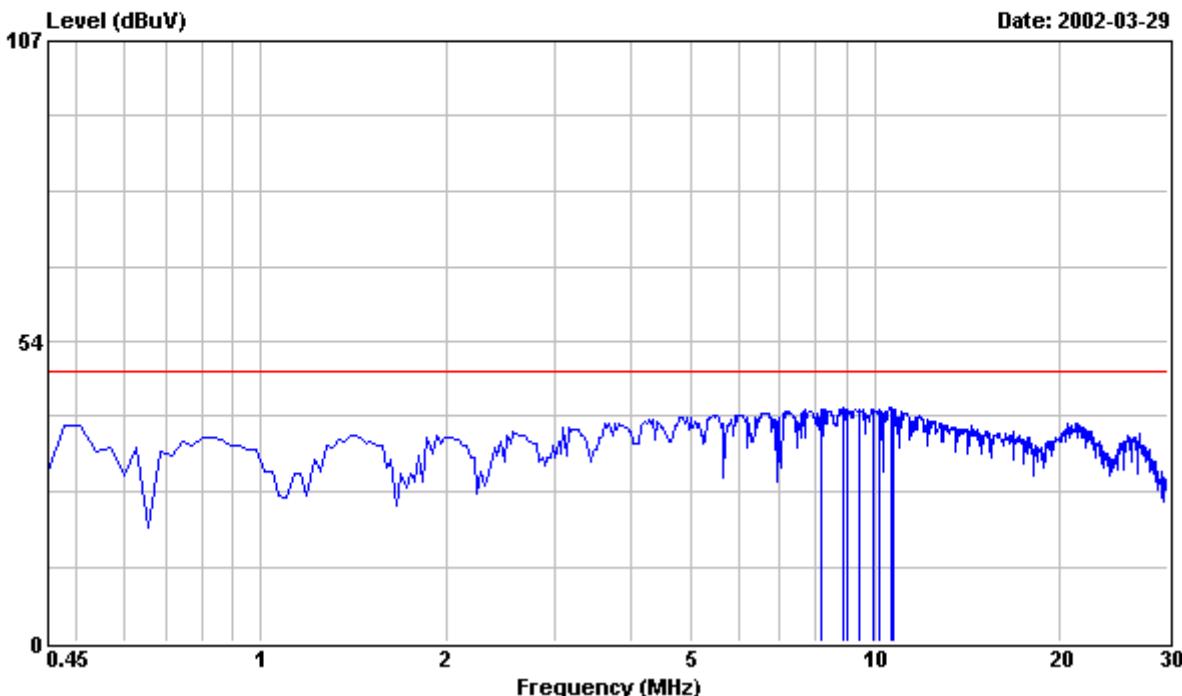


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Data#: 11

File#: C:\Program Files\e3\EMI02-011-C.emi



Site : PHILIPS EMI Shielding Room
 Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 220VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/60Hz 48.3KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	Limit	Factor	Emission Level		Over Limit
				NEUTRAL		
MHz	dBuV	dBuV	dB	dBuV	dBuV	
8.192	41.00	48.00	0.42	41.42	-6.58	
8.901	41.10	48.00	0.49	41.59	-6.41	
9.020	41.00	48.00	0.50	41.50	-6.50	
9.433	40.90	48.00	0.55	41.45	-6.55	
9.906	40.90	48.00	0.59	41.49	-6.51	
10.142	40.90	48.00	0.60	41.50	-6.50	
10.615	41.00	48.00	0.62	41.62	-6.38	
10.733	40.90	48.00	0.62	41.52	-6.48	

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

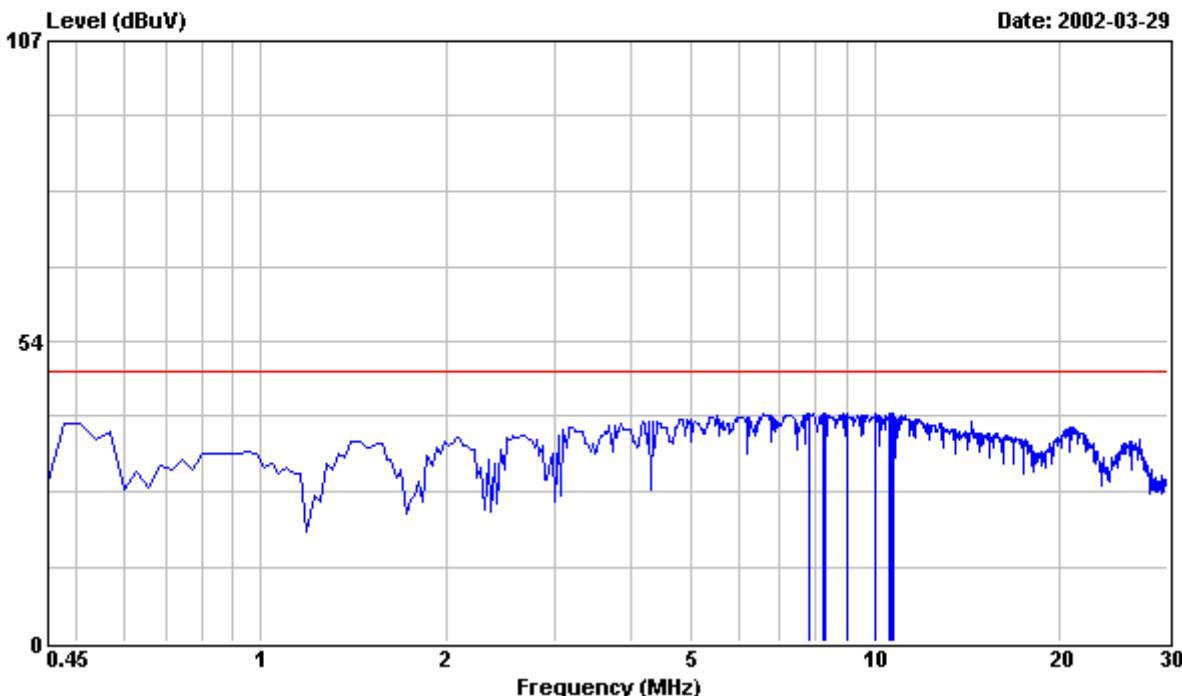


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Data#: 12

File#: C:\Program Files\e3\EMI02-011-C.emi



Site : PHILIPS EMI Shielding Room
 Condition : FCC CLASS-B FCC_LCI_L1 LINE
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 220VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/60Hz 48.3KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	Limit	Factor	Emission Level	Over Limit
				LINE	
MHz	dBuV	dBuV	dB	dBuV	dBuV
7.808	40.20	48.00	0.40	40.60	-7.40
8.251	40.40	48.00	0.43	40.83	-7.17
8.310	40.10	48.00	0.43	40.53	-7.47
9.020	40.00	48.00	0.50	40.50	-7.50
10.024	39.90	48.00	0.60	40.50	-7.50
10.556	39.90	48.00	0.61	40.51	-7.49
10.674	40.20	48.00	0.62	40.82	-7.18
10.733	40.10	48.00	0.62	40.72	-7.28

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 Quasi-Peak
88.0 – 216.0	43.5	43.5 Quasi-Peak
216.0 – 960.0	46.5	46.0 Quasi-Peak
960.0 – 1000.0	49.5	54.0 Quasi-Peak
Above 1000.0	49.5	54.0 Average

Test Result :

Passed FCC Class B Limits

Remark:

Date of Test

: 29 Mar., 2002 to 01 Apr., 2002

Test Engineer

: C.C.Wu

For detail measurement results see next pages.

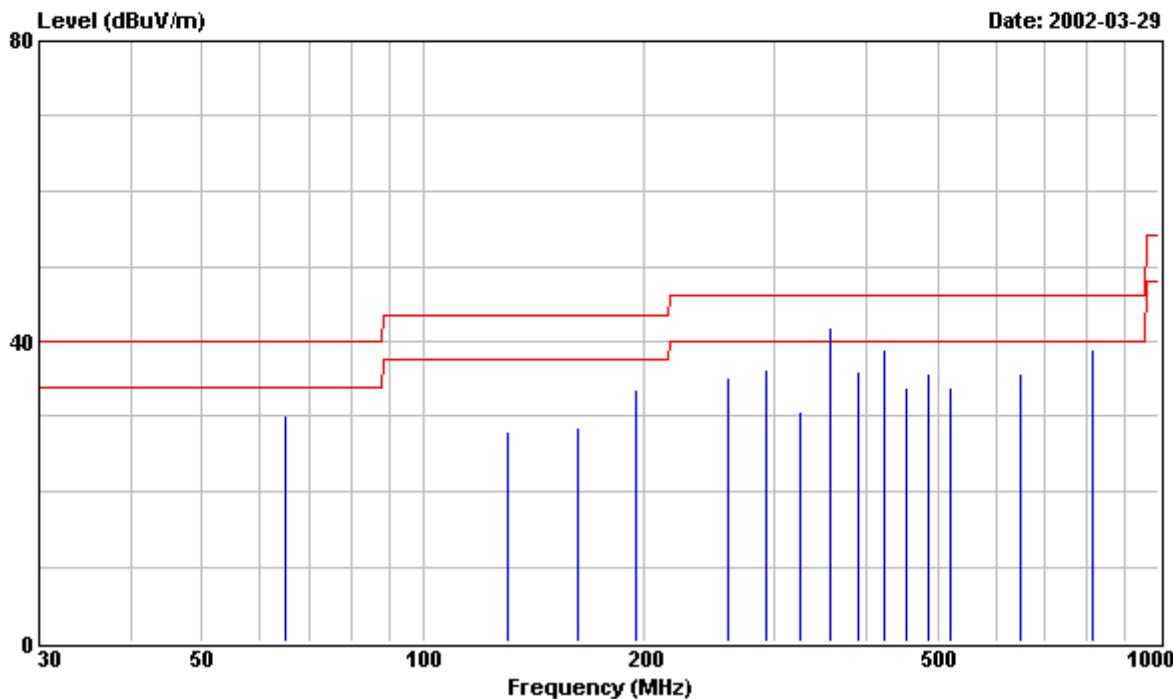


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Data#: 1

File#: C:\Program Files\e3\EMI02-011-R.emi



Site : PHILIPS EMI 3M open site
 Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120-240VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & D-SUB I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m
65.010	20.10	---	40.00	9.95	30.05	-9.95
130.010	15.20	---	43.50	12.69	27.89	-15.61
162.500	14.80	---	43.50	13.77	28.57	-14.93
195.010	17.70	---	43.50	15.86	33.56	-9.94
260.010	14.00	---	46.00	21.07	35.07	-10.93
292.510	13.60	---	46.00	22.78	36.38	-9.62
325.000	13.60	---	46.00	16.99	30.59	-15.41
357.500	24.10	---	46.00	17.65	41.75	-4.25
357.500	22.80	22.80	46.00	17.65	40.45	0.00
390.000	17.90	---	46.00	18.21	36.11	-9.89
422.500	20.10	---	46.00	18.71	38.81	-7.19
455.000	14.80	---	46.00	19.14	33.94	-12.06
487.500	16.30	---	46.00	19.56	35.86	-10.14

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)



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Frequency MHz	Peak Reading dBuV	QP reading dBuV	Limit dBuV/m	Factor dB/m	Emission Lavel dBuV/m	Over Limit dBuV/m
520.000	13.70	---	46.00	20.05	33.75	-12.25
650.000	13.20	---	46.00	22.40	35.60	-10.40
812.500	13.90	---	46.00	25.02	38.92	-7.08

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

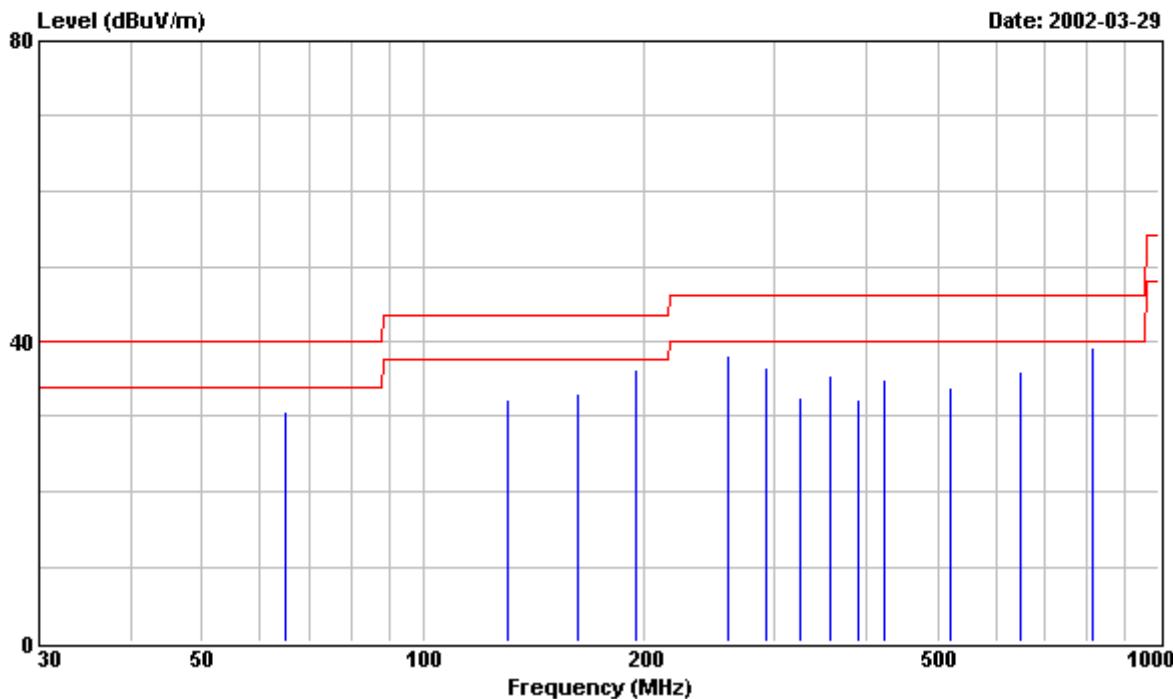


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Data#: 2

File#: C:\Program Files\em3\EMI02-011-R.emi



Site : PHILIPS EMI 3M open site
 Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120-240VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & D-SUB I/F CABLE
 : WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level		Over Limit
					HORIZONTAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
65.010	20.80	---	40.00	9.95	30.75	-9.25	
130.010	19.50	---	43.50	12.69	32.19	-11.31	
162.500	19.20	---	43.50	13.77	32.97	-10.53	
195.010	20.40	---	43.50	15.86	36.26	-7.24	
260.010	17.10	---	46.00	21.07	38.17	-7.83	
292.510	13.80	---	46.00	22.78	36.58	-9.42	
325.000	15.60	---	46.00	16.99	32.59	-13.41	
357.500	17.70	---	46.00	17.65	35.35	-10.65	
390.000	14.10	---	46.00	18.21	32.31	-13.69	
422.500	16.10	---	46.00	18.71	34.81	-11.19	
520.000	13.90	---	46.00	20.05	33.95	-12.05	
650.000	13.50	---	46.00	22.40	35.90	-10.10	
812.500	14.20	---	46.00	25.02	39.22	-6.78	

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)

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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

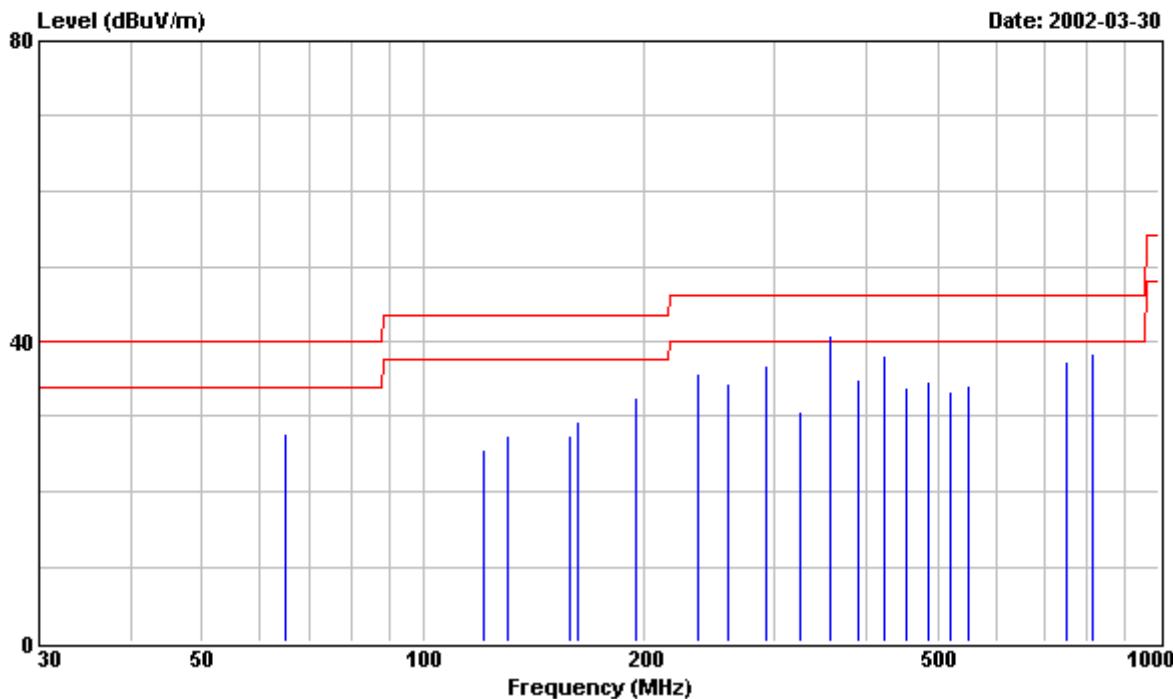


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Data#: 3

File#: C:\Program Files\em3\EMI02-011-R.emi



Site : PHILIPS EMI 3M open site
 Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120-240VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency MHz	Peak Reading dBuV	QP reading dBuV	Limit dBuV/m	Factor dB/m	Emission Level VERTICAL		Over Limit dBuV/m
					Level dBuV/m	Over Limit dBuV/m	
65.000	17.90	---	40.00	9.95	27.85	-12.15	
120.720	13.20	---	43.50	12.40	25.60	-17.90	
130.000	14.80	---	43.50	12.69	27.49	-16.01	
157.870	13.90	---	43.50	13.65	27.55	-15.95	
162.500	15.60	---	43.50	13.77	29.37	-14.13	
195.000	16.60	---	43.50	15.86	32.46	-11.04	
236.620	16.40	---	46.00	19.45	35.85	-10.15	
260.000	13.30	---	46.00	21.07	34.37	-11.63	
292.500	14.10	---	46.00	22.78	36.88	-9.12	
325.000	13.70	---	46.00	16.99	30.69	-15.31	
357.500	21.90	21.90	46.00	17.65	39.55	0.00	
357.500	23.10	---	46.00	17.65	40.75	-5.25	
390.000	16.80	---	46.00	18.21	35.01	-10.99	

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)



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Frequency MHz	Peak Reading dBuV	QP reading dBuV	Limit dBuV/m	Factor dB/m	Emission Lavel dBuV/m	Over Limit dBuV/m
422.500	19.50	---	46.00	18.71	38.21	-7.79
455.000	14.80	---	46.00	19.14	33.94	-12.06
487.500	15.10	---	46.00	19.56	34.66	-11.34
520.000	13.20	---	46.00	20.05	33.25	-12.75
552.500	13.50	---	46.00	20.54	34.04	-11.96
747.500	13.10	---	46.00	24.15	37.25	-8.75
812.500	13.40	---	46.00	25.02	38.42	-7.58

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

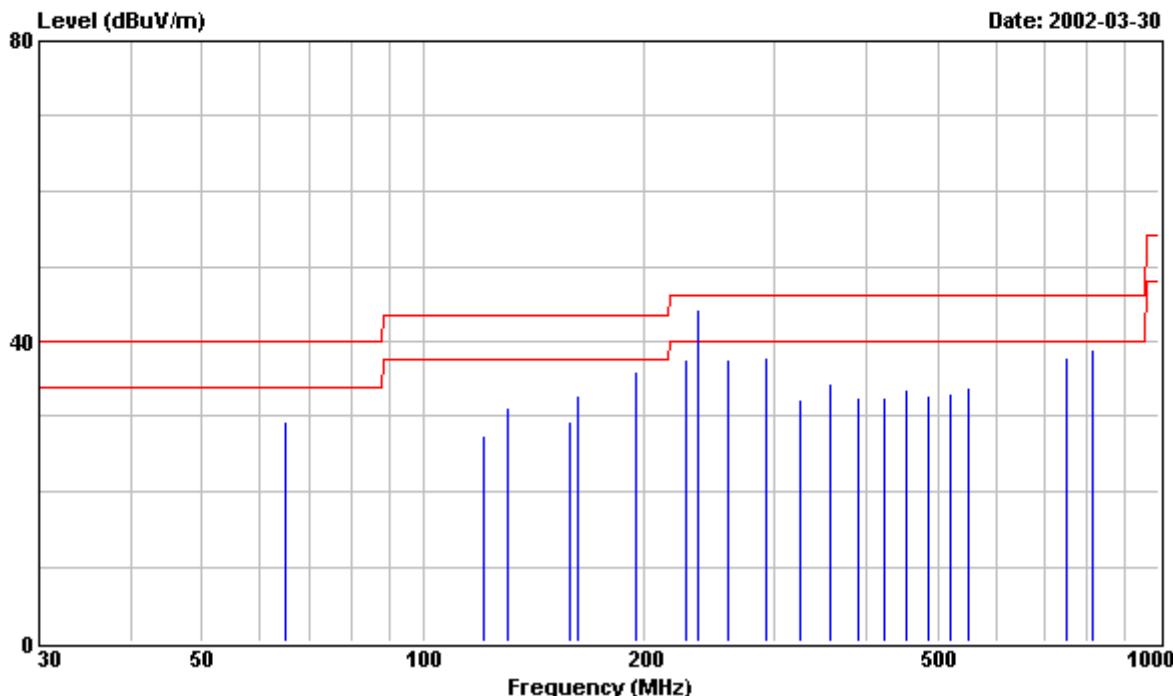


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Data#: 4

File#: C:\Program Files\e3\EMI02-011-R.emi



Site : PHILIPS EMI 3M open site
 Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120-240VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/75Hz 60KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency MHz	Peak dBuV	Reading dBuV	QP reading dBuV/m	Limit dBuV/m	Factor dB/m	Emission Level HORIZONTAL	
						Over Limit dBuV/m	Over Limit dBuV/m
65.000	19.30	---	40.00	9.95	29.25	-10.75	
120.720	15.20	---	43.50	12.40	27.60	-15.90	
130.000	18.60	---	43.50	12.69	31.29	-12.21	
157.870	15.80	---	43.50	13.65	29.45	-14.05	
162.500	19.10	---	43.50	13.77	32.87	-10.63	
195.000	20.10	---	43.50	15.86	35.96	-7.54	
227.500	18.80	---	46.00	18.73	37.53	-8.47	
236.620	24.70	---	46.00	19.45	44.15	-1.85	
236.620	22.20	22.20	46.00	19.45	41.65	0.00	
260.000	16.60	---	46.00	21.07	37.67	-8.33	
292.500	15.00	---	46.00	22.78	37.78	-8.22	
325.000	15.40	---	46.00	16.99	32.39	-13.61	
357.500	16.80	---	46.00	17.65	34.45	-11.55	

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)



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Frequency MHz	Peak Reading dBuV	QP reading dBuV	Limit dBuV/m	Factor dB/m	Emission Level dBuV/m	Over Limit dBuV/m
HORIZONTAL						
390.000	14.30	---	46.00	18.21	32.51	-13.49
422.500	13.70	---	46.00	18.71	32.41	-13.59
455.000	14.50	---	46.00	19.14	33.64	-12.36
487.500	13.30	---	46.00	19.56	32.86	-13.14
520.000	12.90	---	46.00	20.05	32.95	-13.05
552.500	13.40	---	46.00	20.54	33.94	-12.06
747.500	13.60	---	46.00	24.15	37.75	-8.25
812.500	13.90	---	46.00	25.02	38.92	-7.08

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

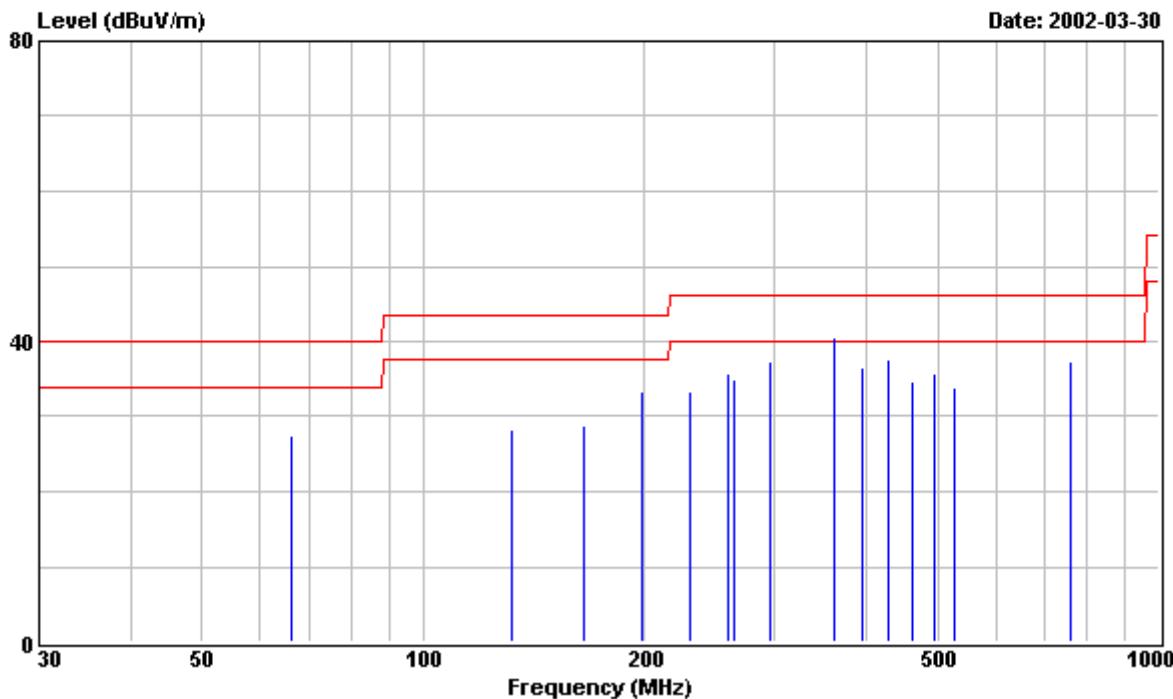


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Data#: 5

File#: C:\Program Files\e3\EMI02-011-R.emi



Site : PHILIPS EMI 3M open site
 Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120-240VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/60Hz 48.3KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency MHz	Peak dB _B V	Reading dB _B V	QP reading dB _B V	Limit dB _B V/m	Factor dB/m	Emission Level d _B V/m		Over Limit d _B V/m
						Vertical	Over Limit	
66.000	17.60	---	21.50	40.00	9.96	27.56		-12.44
132.000	15.40	---	21.50	43.50	12.78	28.18		-15.32
165.000	15.00	---	21.50	43.50	13.83	28.83		-14.67
198.000	17.20	---	21.50	43.50	16.11	33.31		-10.19
231.000	14.40	---	21.50	46.00	18.99	33.39		-12.61
260.150	14.60	---	21.50	46.00	21.07	35.67		-10.33
264.000	13.60	---	21.50	46.00	21.28	34.88		-11.12
297.000	14.30	---	21.50	46.00	23.04	37.34		-8.66
363.000	21.50	21.50	21.50	46.00	17.74	39.24		0.00
363.000	22.80	---	21.50	46.00	17.74	40.54		-5.46
396.000	18.10	---	21.50	46.00	18.33	36.43		-9.57
429.000	18.90	---	21.50	46.00	18.81	37.71		-8.29
462.000	15.40	---	21.50	46.00	19.25	34.65		-11.35

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



PHILIPS

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Frequency MHz	Peak Reading dBuV	QP reading dBuV	Limit dBuV/m	Factor dB/m	Emission Lavel dBuV/m	Over Limit dBuV/m
495.000	16.10	---	46.00	19.64	35.74	-10.26
528.000	13.80	---	46.00	20.16	33.96	-12.04
759.000	13.10	---	46.00	24.29	37.39	-8.61

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

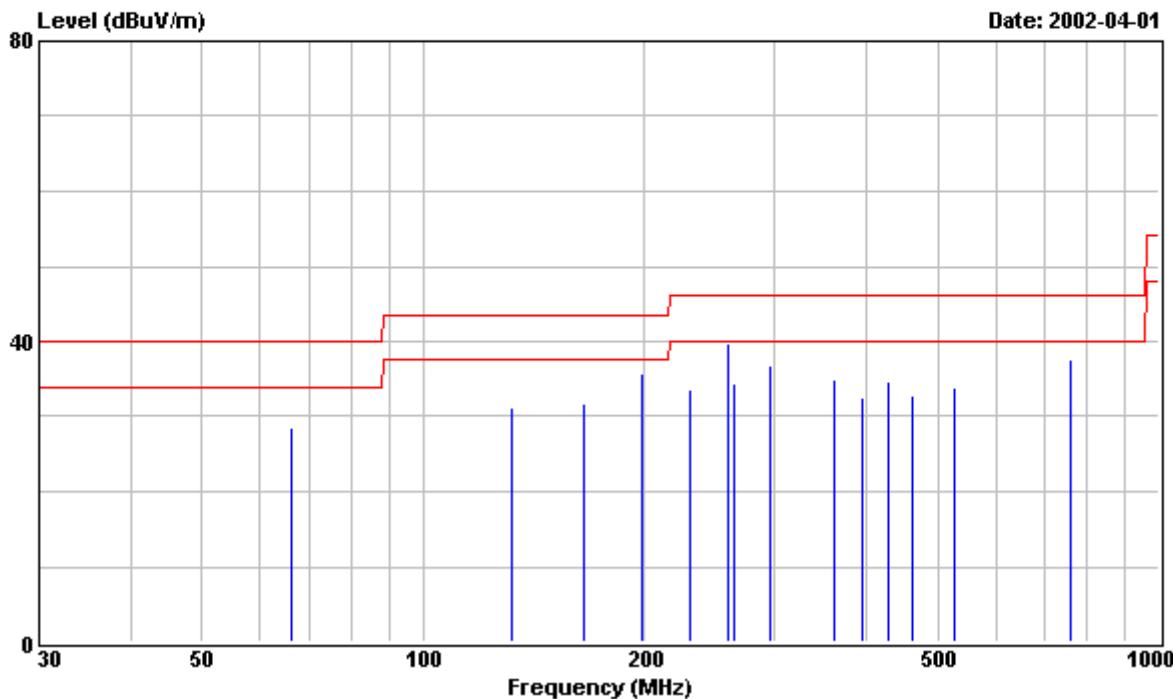


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Data#: 6

File#: C:\Program Files\em3\EMI02-011-R.emi



Site : PHILIPS EMI 3M open site
 Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
 EUT : PHILIPS 150X3 Serial No:TY0205099
 Power : 120-240VAC
 Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
 : 2. AUDIO WITH HEADPHONE .
 : 3. 1024x768/60Hz 48.3KHz MODE W/CP CORP.
 : AR6S VIDEO CARD & DVI I/F CABLE
 : WAS TESTED.

Frequency MHz	Peak dB _B V	QP reading dB _B V	Limit dB _B V/m	Factor dB/m	Emission Level HORIZONTAL		Over Limit dB _B V/m
					dB _B V/m	dBuV/m	
66.000	18.50	---	40.00	9.96	28.46		-11.54
132.000	18.40	---	43.50	12.78	31.18		-12.32
165.000	18.00	---	43.50	13.83	31.83		-11.67
198.000	19.50	---	43.50	16.11	35.61		-7.89
231.000	14.70	---	46.00	18.99	33.69		-12.31
260.150	18.70	---	46.00	21.07	39.77		-6.23
264.000	13.20	---	46.00	21.28	34.48		-11.52
297.000	13.80	---	46.00	23.04	36.84		-9.16
363.000	17.20	---	46.00	17.74	34.94		-11.06
396.000	14.30	---	46.00	18.33	32.63		-13.37
429.000	15.80	---	46.00	18.81	34.61		-11.39
462.000	13.60	---	46.00	19.25	32.85		-13.15
528.000	13.70	---	46.00	20.16	33.86		-12.14

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

**PHILIPS**

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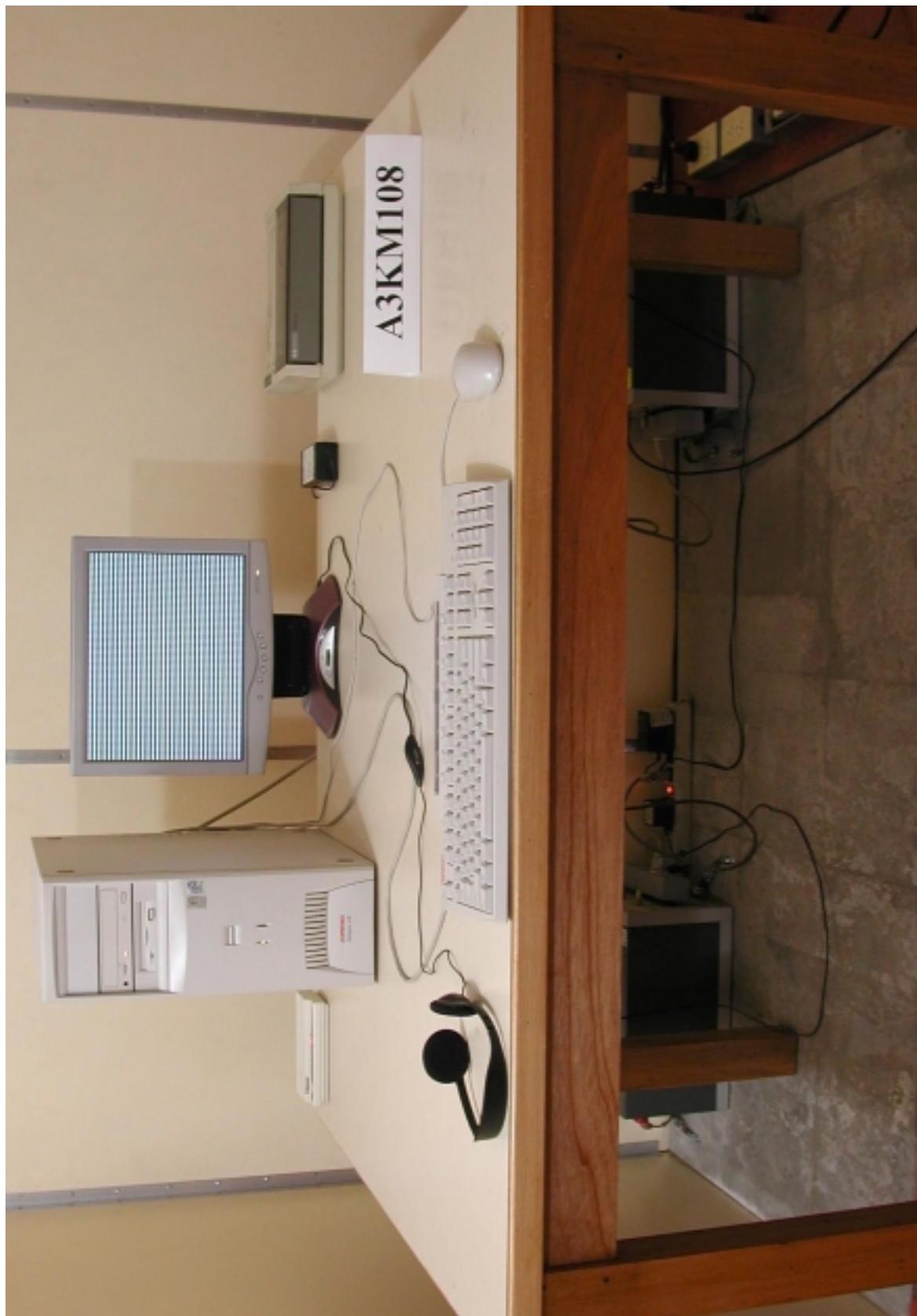
Frequency MHz	Peak Reading dBuV	QP reading dBuV	Limit dBuV/m	Factor dB/m	Emission Level dBuV/m	Over Limit dBuV/m
759.000	13.20	---	46.00	24.29	37.49	-8.51

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

9. Photographs of Test Set-up

Conducted Emissions Test



Conducted Emissions Test



Radiated Emissions Test



Radiated Emissions Test



10. Reference

FCC part 15 - 1999
Radio frequency device.

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”