



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.: TYR87-2019 Date : 22 July, 2002 Page : 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 : 150P3 Serial Number : TY0205274 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 : 16 Jul. 2002 Date of performance of test : 18 Jul., 2002 to 19 Jul., 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. : 150P3
 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	08/15/2001	08/15/2002
EMI Receiver	R & S ESVS30	841977/006	06/13/2002	06/13/2003
LISN	EMCO 3825/2	9311-2153	06/13/2002	06/13/2003
LISN	EMCO 3825/2	9311-2154	06/13/2002	06/13/2003
RF Cable	8-meter	N/A	05/29-2002	05/29/2003

- For Radiated Emissions Test:

Test Equipment	Model No.	Serial No.	Last Calibrate	Next Calibrate
Spectrum	HP8568B	2415A00346	08/15/2001	08/15/2002
RF Preselector	HP85685A	2901A00946	08/15/2001	08/15/2002
QP Adapter	HP85650A	2043A00366	08/15/2001	08/15/2002
EMI Receiver	HP85460A	3441A00199	09/11/2001	09/11/2002
RFI Filter Section	HP85460A	3330A00177	09/11/2001	09/11/2002
EMI Receiver	R & S ESVS30	841977/006	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

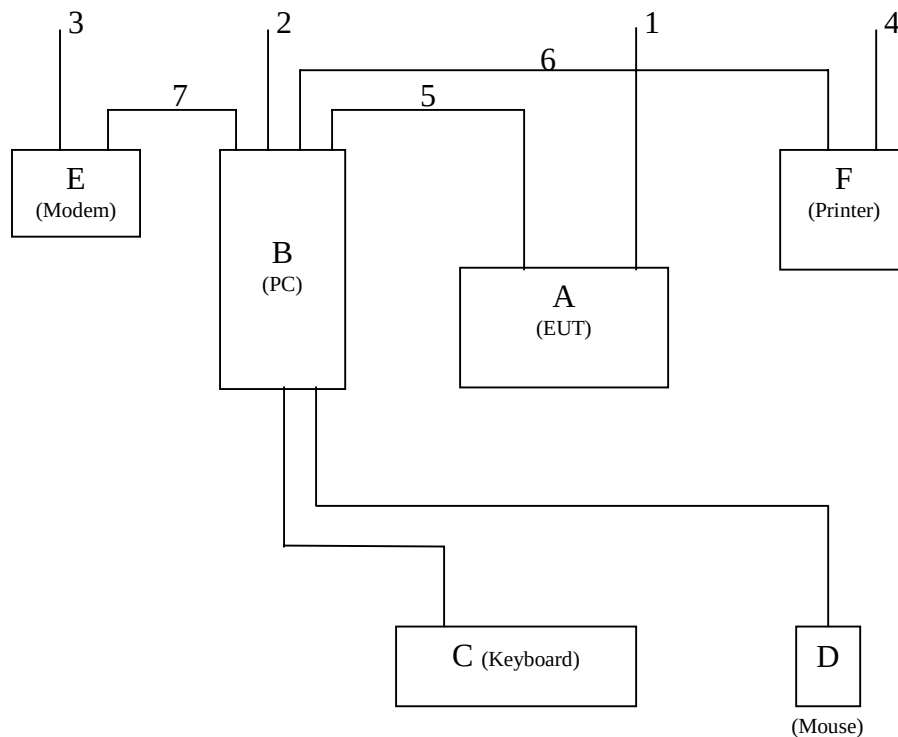
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “150P3” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	PHILIPS 150P3	TY0205274	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	

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	EMI02-036-C	1024x768	60KHz/75Hz	D-sub & DVI
		1024x768	48KHz/60Hz	D-sub
Radiated	EMI02-036-R	1024x768	60KHz/75Hz	D-sub & DVI
		1024x768	48KHz/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

: 18 Jul., 2002 to 19 Jul., 2002

Test Engineer

: C.C.Wu

For detail measurement results see next pages.

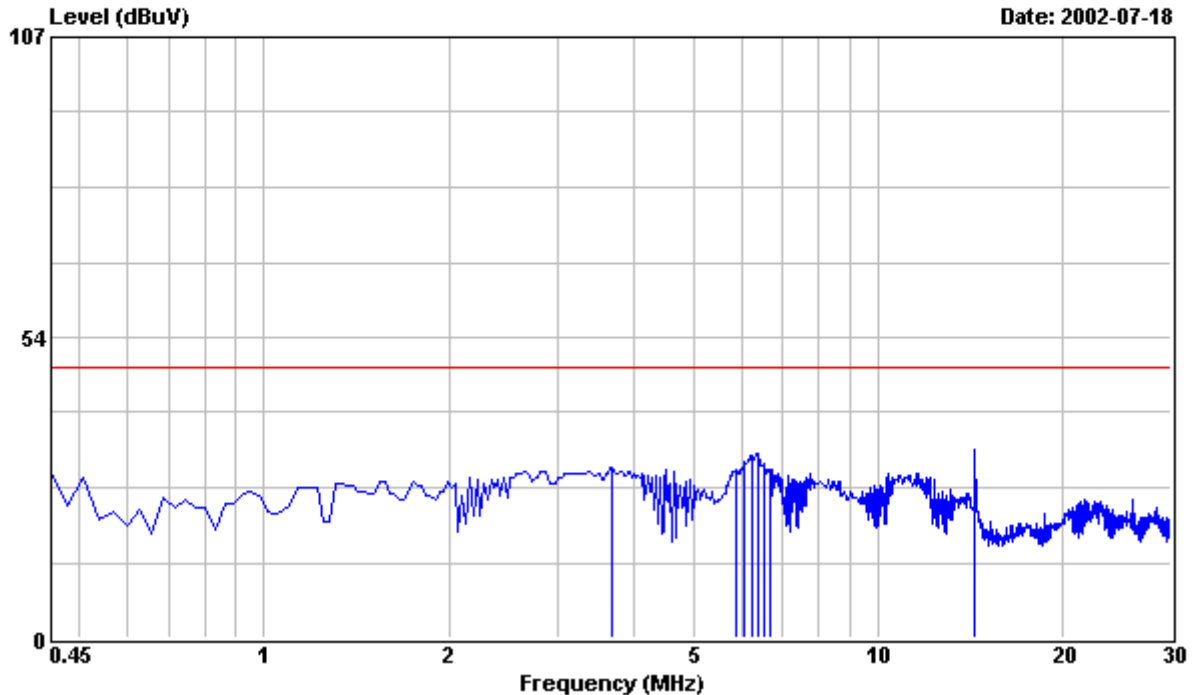


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Data#: 1

File#: C:\Program Files\em3\EMI02-036-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ LINE
3.701	29.80	48.00	0.40	30.20	-17.80	
5.887	29.60	48.00	0.39	29.99	-18.01	
6.065	31.10	48.00	0.40	31.50	-16.50	
6.242	32.20	48.00	0.40	32.60	-15.40	
6.360	32.30	48.00	0.40	32.70	-15.30	
6.537	30.80	48.00	0.40	31.20	-16.80	
6.655	29.70	48.00	0.40	30.10	-17.90	
14.398	33.00	48.00	0.69	33.69	-14.31	

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

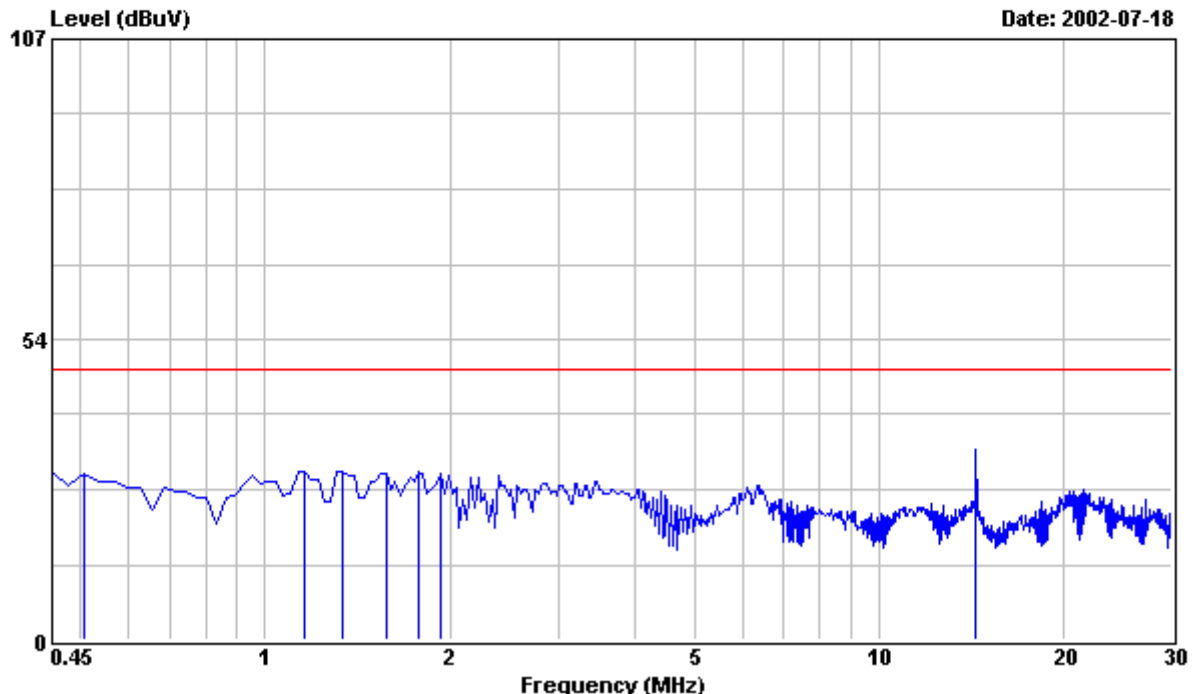


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Data#: 2

File#: C:\Program Files\em3\EMI02-036-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ NEUTRAL
0.450	29.70	48.00	0.20	29.90	-18.10	
0.509	29.20	48.00	0.23	29.43	-18.57	
1.159	29.50	48.00	0.40	29.90	-18.10	
1.337	29.40	48.00	0.40	29.80	-18.20	
1.573	29.20	48.00	0.40	29.60	-18.40	
1.780	29.50	48.00	0.40	29.90	-18.10	
1.928	29.20	48.00	0.40	29.60	-18.40	
14.398	33.20	48.00	0.69	33.89	-14.11	

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

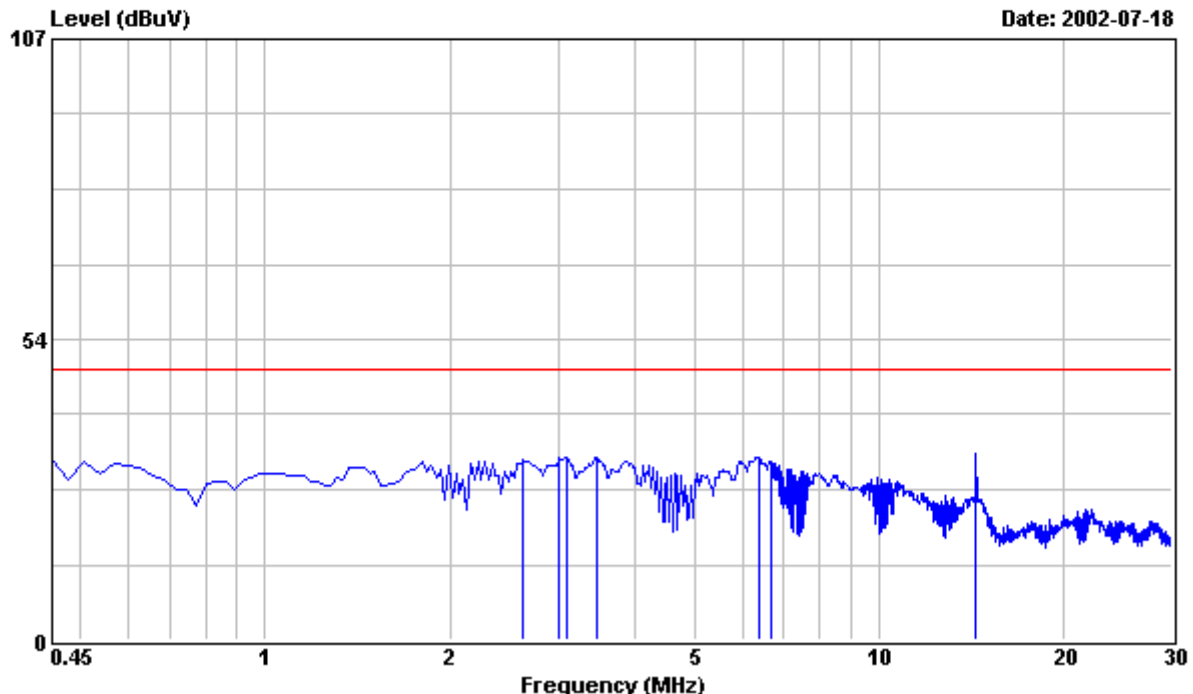


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Data#: 3

File#: C:\Program Files\em3\EMI02-036-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ LINE
0.450	31.80	48.00	0.20	32.00	-16.00	
2.637	31.60	48.00	0.40	32.00	-16.00	
3.021	31.90	48.00	0.40	32.30	-15.70	
3.110	31.90	48.00	0.40	32.30	-15.70	
3.464	31.90	48.00	0.40	32.30	-15.70	
6.360	32.10	48.00	0.40	32.50	-15.50	
6.655	31.40	48.00	0.40	31.80	-16.20	
14.398	32.60	48.00	0.69	33.29	-14.71	

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

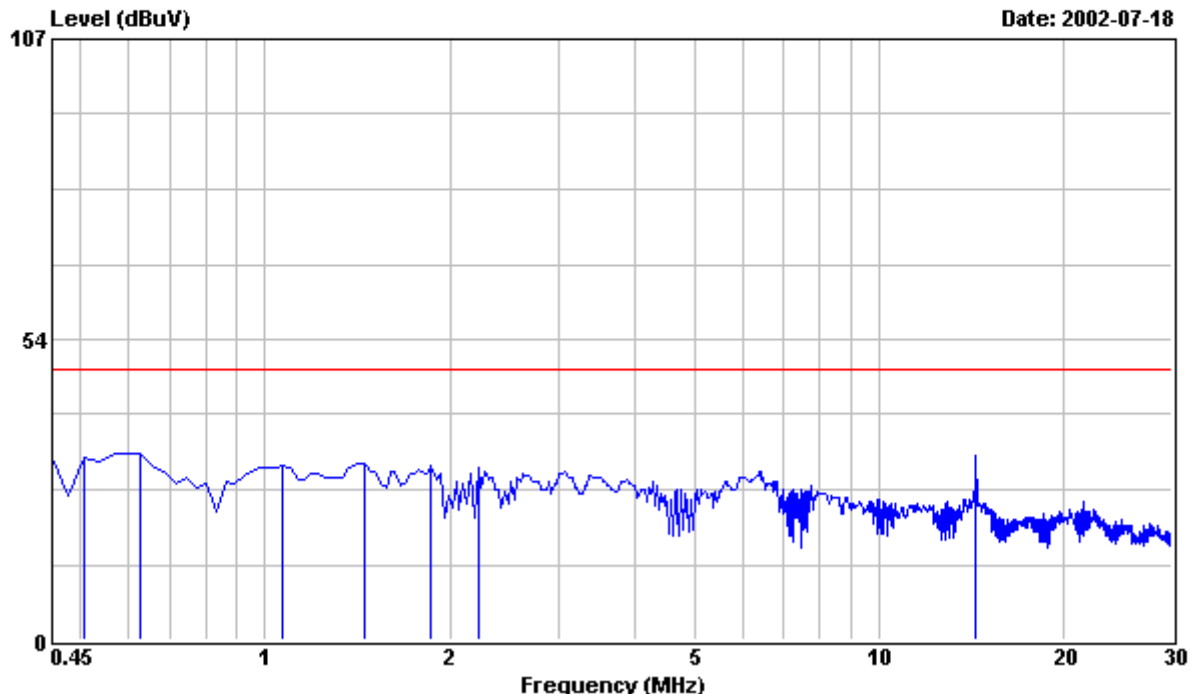


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Data#: 4

File#: C:\Program Files\em3\EMI02-036-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ NEUTRAL
0.450	32.10	48.00	0.20	32.30	-15.70	
0.509	32.10	48.00	0.23	32.33	-15.67	
0.627	32.90	48.00	0.28	33.18	-14.82	
1.071	30.60	48.00	0.40	31.00	-17.00	
1.455	31.00	48.00	0.40	31.40	-16.60	
1.868	30.70	48.00	0.40	31.10	-16.90	
2.223	30.20	48.00	0.40	30.60	-17.40	
14.398	32.10	48.00	0.69	32.79	-15.21	

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

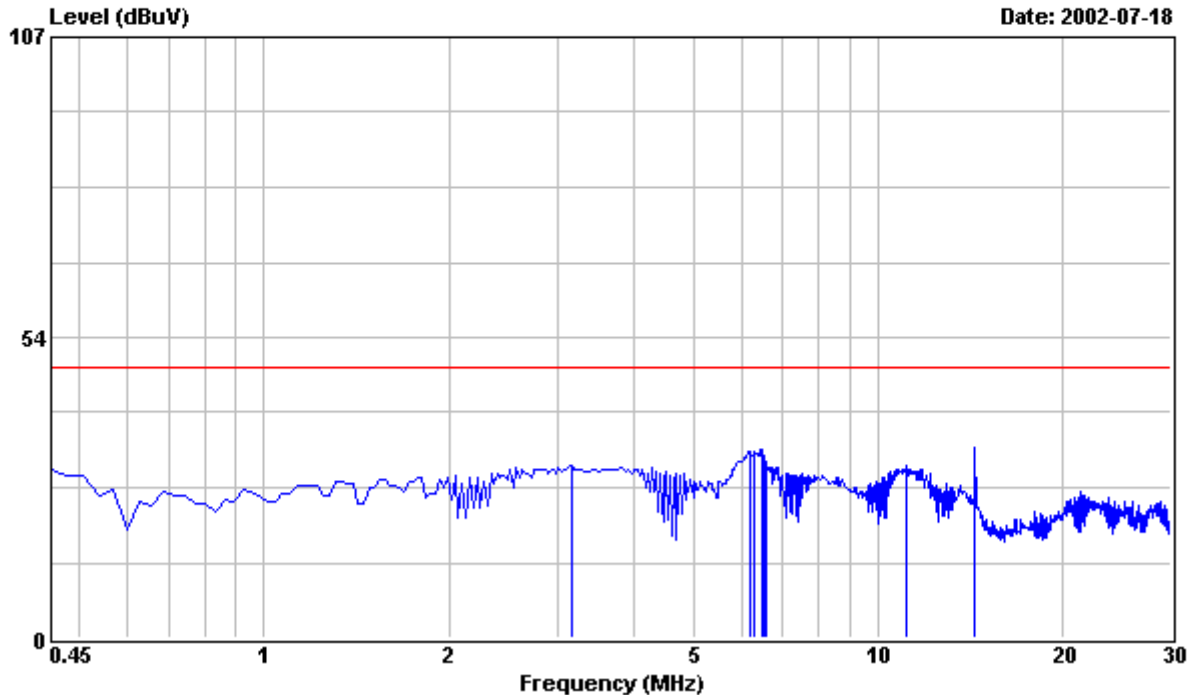


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: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ LINE
3.169	30.40	48.00	0.40	30.80	-17.20	
6.183	32.70	48.00	0.40	33.10	-14.90	
6.301	32.90	48.00	0.40	33.30	-14.70	
6.478	33.10	48.00	0.40	33.50	-14.50	
6.537	31.40	48.00	0.40	31.80	-16.20	
6.596	30.80	48.00	0.40	31.20	-16.80	
11.147	30.10	48.00	0.63	30.73	-17.27	
14.398	33.20	48.00	0.69	33.89	-14.11	

Remarks: 1. All Readings are Peak .
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
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Tested by : C.C.Wu

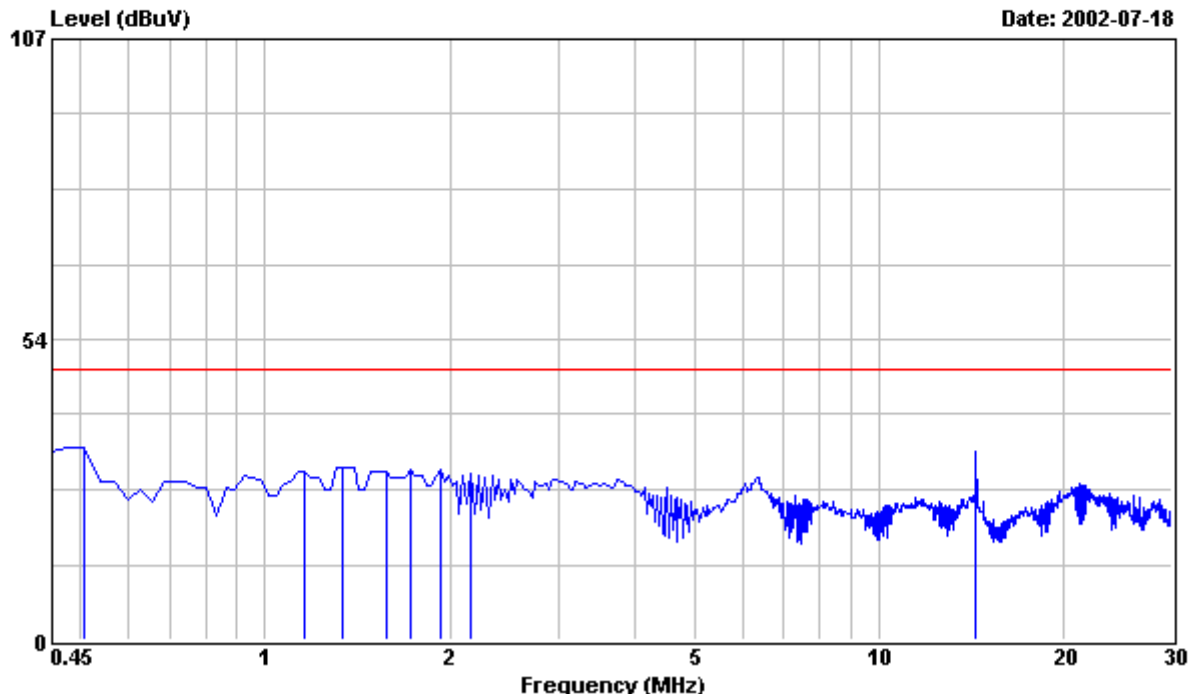


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: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ NEUTRAL
0.509	34.00	48.00	0.23	34.23	-13.77	
1.159	29.70	48.00	0.40	30.10	-17.90	
1.337	30.40	48.00	0.40	30.80	-17.20	
1.573	29.60	48.00	0.40	30.00	-18.00	
1.721	29.90	48.00	0.40	30.30	-17.70	
1.928	30.00	48.00	0.40	30.40	-17.60	
2.164	29.10	48.00	0.40	29.50	-18.50	
14.398	33.00	48.00	0.69	33.69	-14.31	

Remarks: 1. All Readings are Peak .
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
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Tested by : C.C.Wu

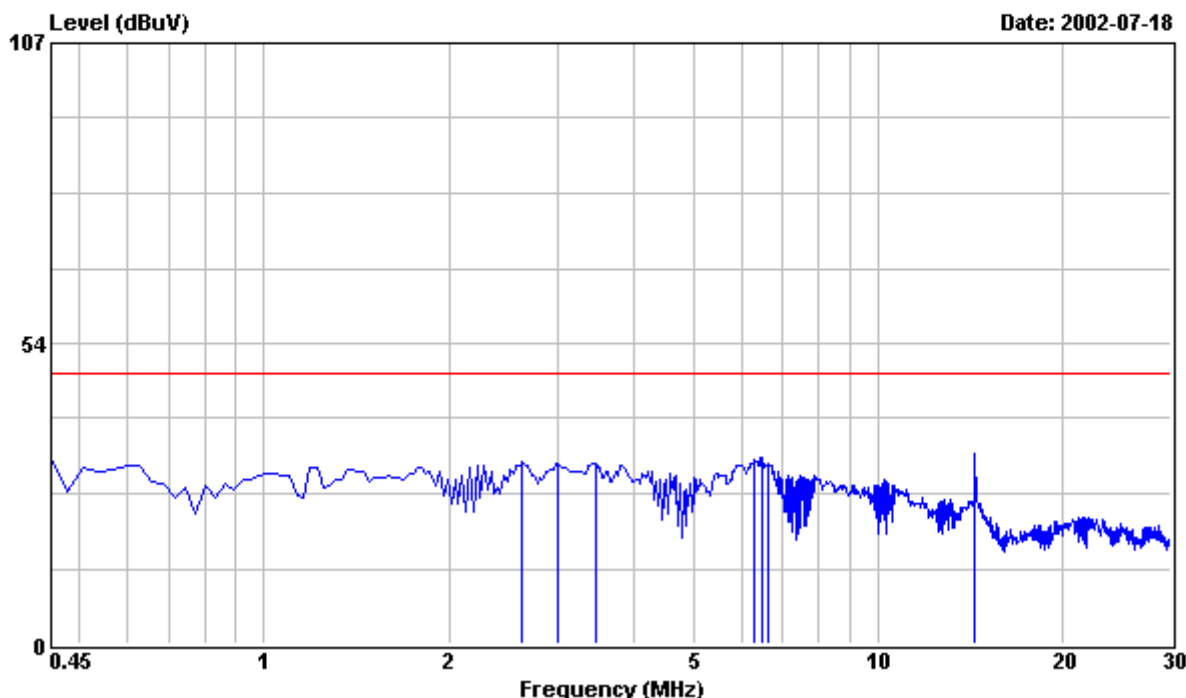


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Condition : FCC CLASS-B FCC_LCI_L1 LINE
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0.450	33.10	48.00	0.20	33.30	-14.70	
2.637	32.10	48.00	0.40	32.50	-15.50	
3.021	31.70	48.00	0.40	32.10	-15.90	
3.464	31.70	48.00	0.40	32.10	-15.90	
6.301	32.40	48.00	0.40	32.80	-15.20	
6.478	32.60	48.00	0.40	33.00	-15.00	
6.626	31.60	48.00	0.40	32.00	-16.00	
14.398	33.30	48.00	0.69	33.99	-14.01	

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

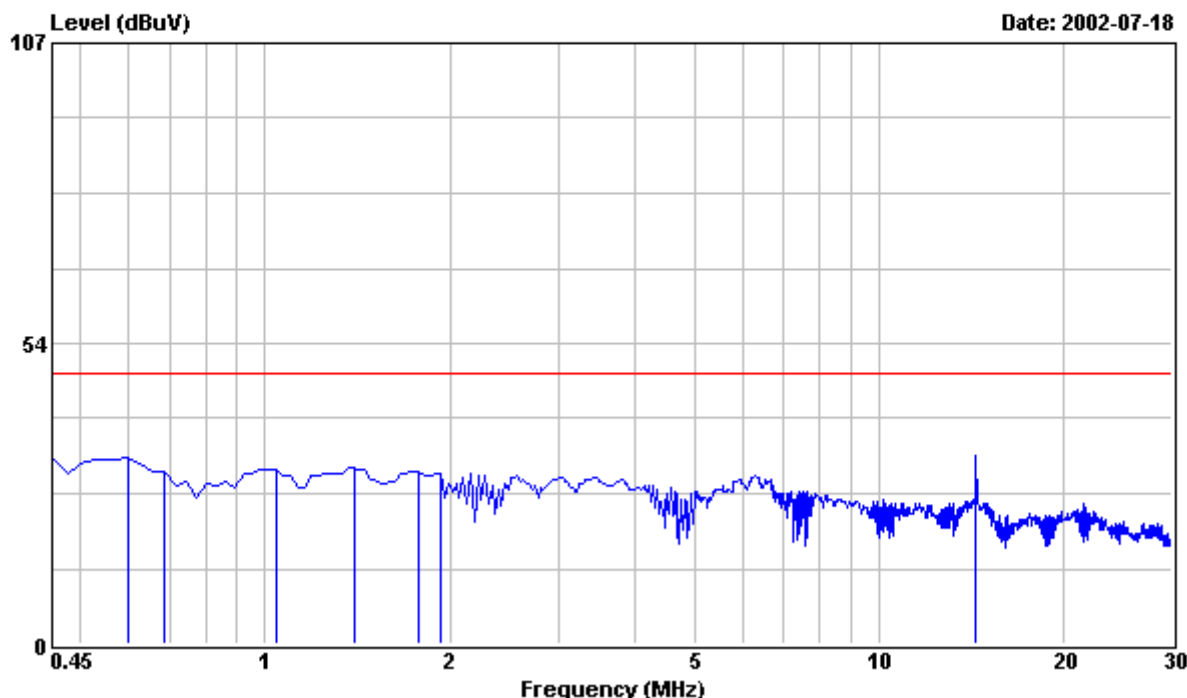


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Data#: 8

File#: C:\Program Files\em3\EMI02-036-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,DVI.
: 3. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ NEUTRAL
0.450	33.00	48.00	0.20	33.20	-14.80	
0.598	32.80	48.00	0.27	33.07	-14.93	
0.686	30.50	48.00	0.31	30.81	-17.19	
1.041	30.60	48.00	0.40	31.00	-17.00	
1.396	31.00	48.00	0.40	31.40	-16.60	
1.780	30.40	48.00	0.40	30.80	-17.20	
1.928	30.00	48.00	0.40	30.40	-17.60	
14.368	33.00	48.00	0.69	33.69	-14.31	

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

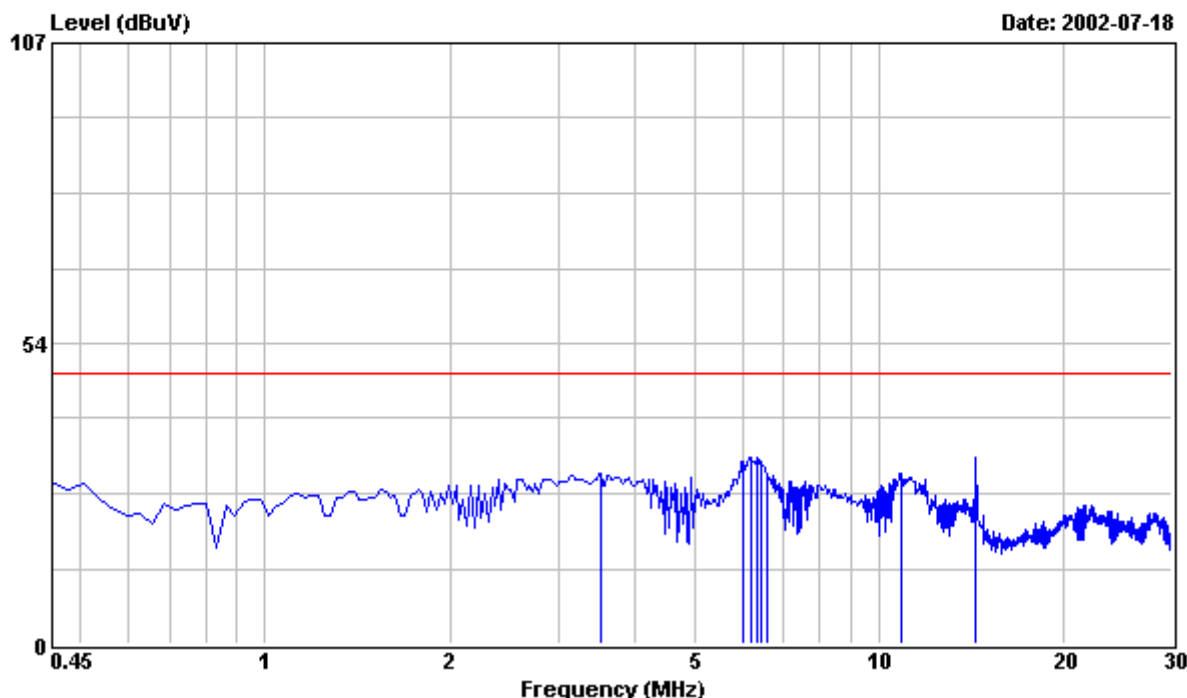


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Data#: 9

File#: C:\Program Files\em3\EMI02-036-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/60Hz 48KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ LINE
3.523	29.90	48.00	0.40	30.30	-17.70	
6.005	32.20	48.00	0.40	32.60	-15.40	
6.183	32.60	48.00	0.40	33.00	-15.00	
6.330	32.70	48.00	0.40	33.10	-14.90	
6.419	32.10	48.00	0.40	32.50	-15.50	
6.596	29.70	48.00	0.40	30.10	-17.90	
10.911	29.60	48.00	0.62	30.22	-17.78	
14.398	32.40	48.00	0.69	33.09	-14.91	

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

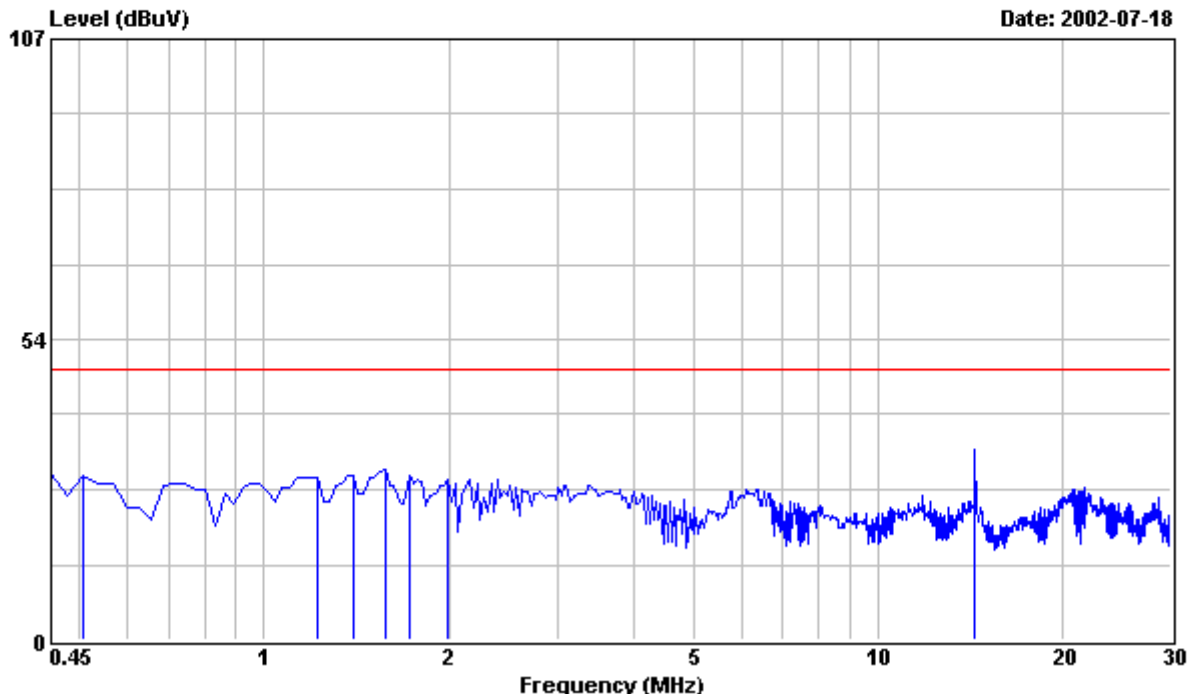


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Data#: 10

File#: C:\Program Files\em3\EMI02-036-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/60Hz 48KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ NEUTRAL
0.450	29.50	48.00	0.20	29.70	-18.30	
0.509	29.00	48.00	0.23	29.23	-18.77	
1.218	28.50	48.00	0.40	28.90	-19.10	
1.396	28.90	48.00	0.40	29.30	-18.70	
1.573	29.80	48.00	0.40	30.20	-17.80	
1.721	28.80	48.00	0.40	29.20	-18.80	
1.987	28.20	48.00	0.40	28.60	-19.40	
14.398	33.20	48.00	0.69	33.89	-14.11	

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

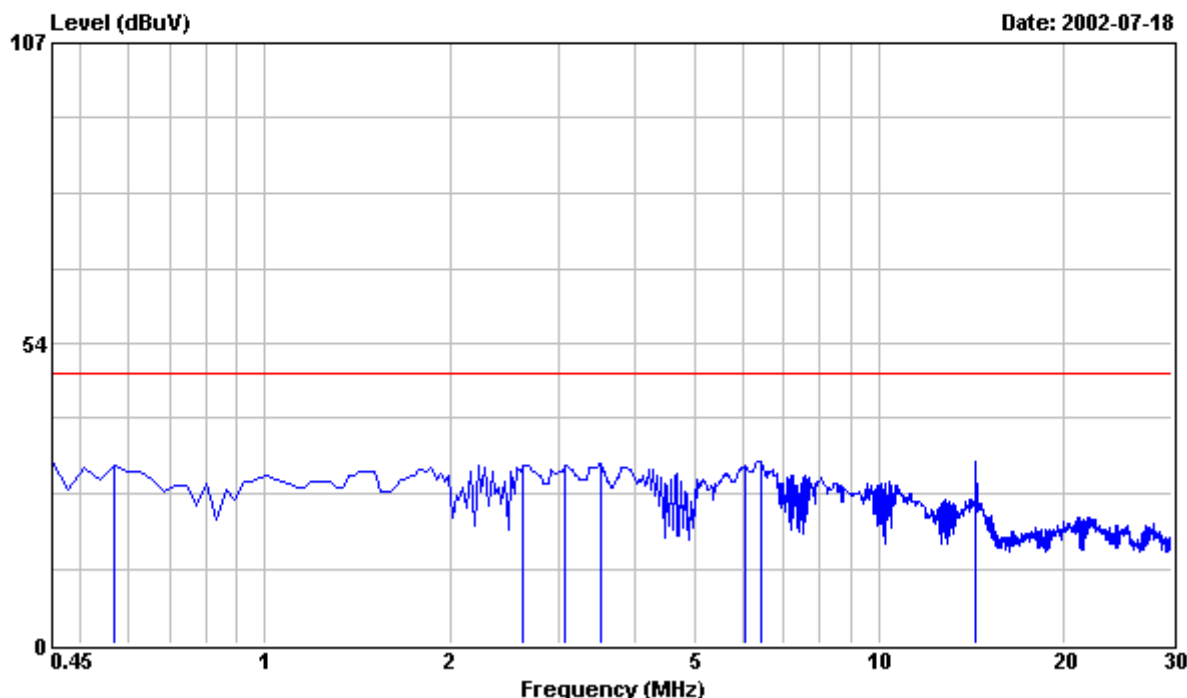


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Data#: 11

File#: C:\Program Files\em3\EMI02-036-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/60Hz 48KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ LINE
0.450	32.40	48.00	0.20	32.60	-15.40	
0.568	31.50	48.00	0.26	31.76	-16.24	
2.637	31.50	48.00	0.40	31.90	-16.10	
3.080	31.50	48.00	0.40	31.90	-16.10	
3.523	31.70	48.00	0.40	32.10	-15.90	
6.065	31.40	48.00	0.40	31.80	-16.20	
6.419	32.10	48.00	0.40	32.50	-15.50	
14.398	31.70	48.00	0.69	32.39	-15.61	

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

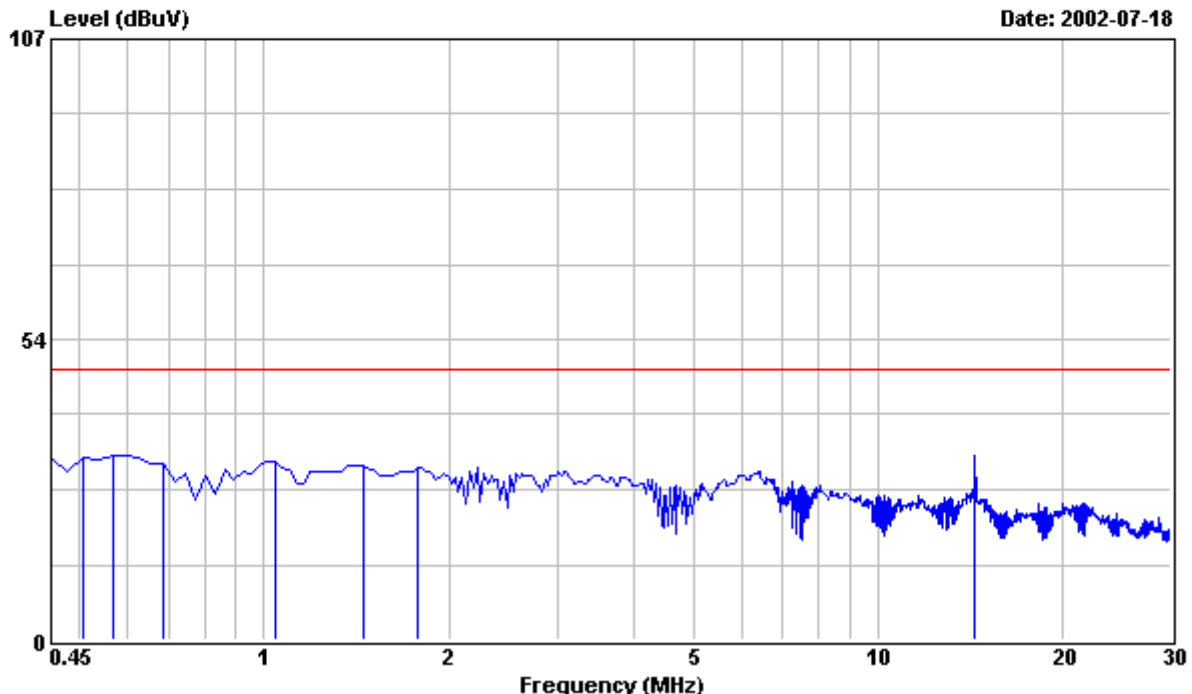


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Data#: 12

File#: C:\Program Files\em3\EMI02-036-C.emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/60Hz 48KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency MHz	Peak Reading dBuV	Limit dBuV	Factor dB	Emission Level dBuV	Over Limit dBuV	※ NEUTRAL
0.450	32.40	48.00	0.20	32.60	-15.40	
0.509	32.20	48.00	0.23	32.43	-15.57	
0.568	32.70	48.00	0.26	32.96	-15.04	
0.686	31.00	48.00	0.31	31.31	-16.69	
1.041	31.30	48.00	0.40	31.70	-16.30	
1.455	30.80	48.00	0.40	31.20	-16.80	
1.780	30.30	48.00	0.40	30.70	-17.30	
14.398	32.30	48.00	0.69	32.99	-15.01	

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

Radiated Emissions FCC Part 15																				
Operating conditions EUT: EUT powered on with scrolling “H” pattern.																				
Limits: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Frequency range (MHz)</th> <th style="width: 33%;">Class A at 10m (dBuv) QP</th> <th style="width: 33%;">Class B at 3m (dBuv) QP</th> </tr> </thead> <tbody> <tr> <td>30.0 – 88.0</td> <td>39.0</td> <td>40.0</td> </tr> <tr> <td>88.0 – 216.0</td> <td>43.5</td> <td>43.5</td> </tr> <tr> <td>216.0 – 960.0</td> <td>46.5</td> <td>46.0</td> </tr> <tr> <td>960.0 – 1000.0</td> <td>49.5</td> <td>54.0</td> </tr> <tr> <td>Above 1000.0</td> <td>49.5</td> <td>54.0 Average</td> </tr> </tbody> </table>			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
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:																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 10px;">Date of Test</td> <td style="width: 50%; padding: 10px;">: 18 Jul., 2002 to 19 Jul., 2002</td> </tr> <tr> <td style="padding: 10px;">Test Engineer</td> <td style="padding: 10px;">: C.C.Wu</td> </tr> </table>			Date of Test	: 18 Jul., 2002 to 19 Jul., 2002	Test Engineer	: C.C.Wu														
Date of Test	: 18 Jul., 2002 to 19 Jul., 2002																			
Test Engineer	: C.C.Wu																			
For detail measurement results see next pages.																				

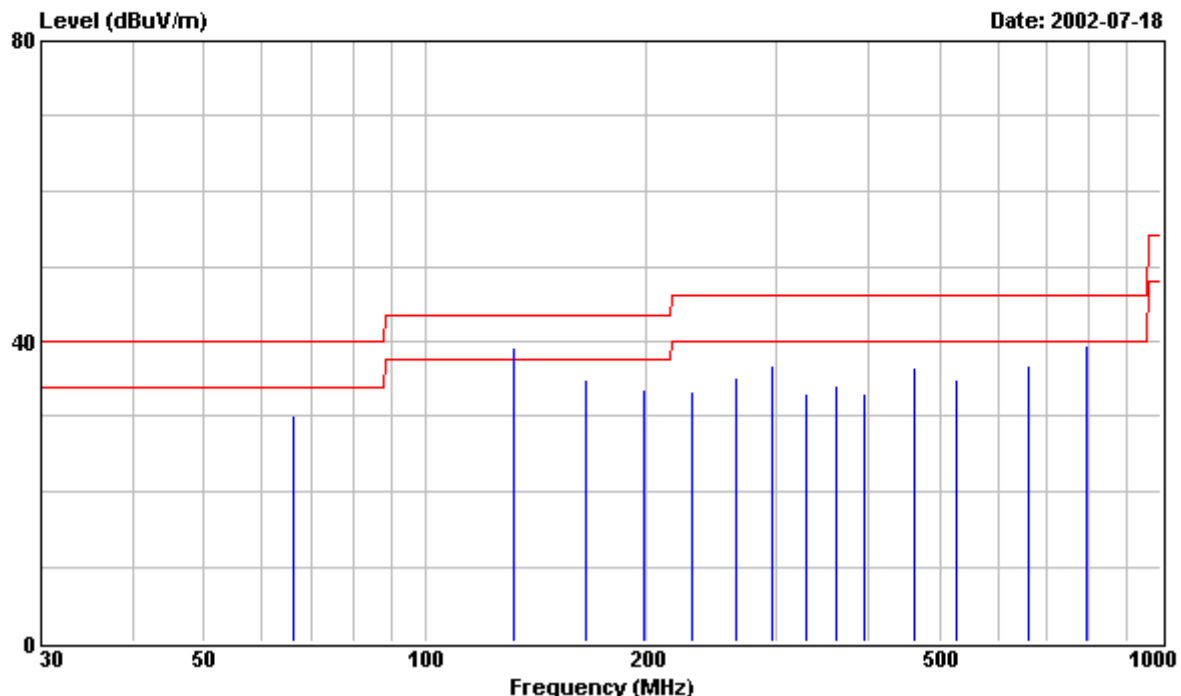


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Data#: 1

File#: C:\Program Files\em3\EMI02-036-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	HORIZONTAL dBuV/m	dBuV/m
66.000	20.20	---	40.00	9.96	30.16	-9.84
132.010	26.30	---	43.50	12.78	39.08	-4.42
132.010	---	25.50	43.50	12.78	38.28	-5.22
165.010	21.00	---	43.50	13.83	34.83	-8.67
198.010	17.40	---	43.50	16.11	33.51	-9.99
231.000	14.40	---	46.00	18.99	33.39	-12.61
264.000	14.00	---	46.00	21.28	35.28	-10.72
297.000	13.80	---	46.00	23.04	36.84	-9.16
329.960	16.00	---	46.00	17.11	33.11	-12.89
363.000	16.40	---	46.00	17.74	34.14	-11.86
396.020	14.80	---	46.00	18.33	33.13	-12.87

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



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
					HORIZONTAL	
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m
462.010	17.30	---	46.00	19.25	36.55	-9.45
528.020	14.80	---	46.00	20.16	34.96	-11.04
660.010	14.20	---	46.00	22.66	36.86	-9.14
792.000	14.80	---	46.00	24.70	39.50	-6.50

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

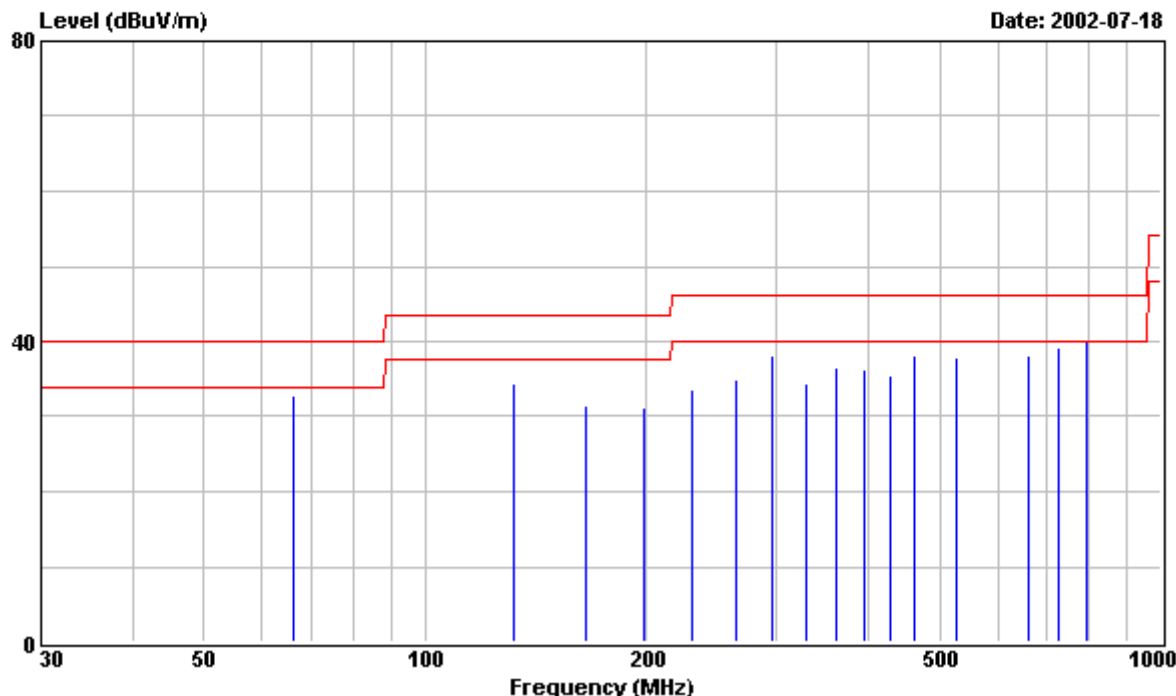


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Data#: 2

File#: C:\Program Files\em3\EMI02-036-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m
66.000	22.90	---	40.00	9.96	32.86	-7.14
132.010	21.70	---	43.50	12.78	34.48	-9.02
165.001	17.70	---	43.50	13.83	31.53	-11.97
198.010	15.20	---	43.50	16.11	31.31	-12.19
231.000	14.50	---	46.00	18.99	33.49	-12.51
264.000	13.60	---	46.00	21.28	34.88	-11.12
297.000	15.00	---	46.00	23.04	38.04	-7.96
329.960	17.40	---	46.00	17.11	34.51	-11.49
363.000	18.90	---	46.00	17.74	36.64	-9.36
396.020	18.00	---	46.00	18.33	36.33	-9.67
429.000	16.70	---	46.00	18.81	35.51	-10.49

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	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
					VERTICAL	
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m
462.010	18.90	---	46.00	19.25	38.15	-7.85
528.020	17.70	---	46.00	20.16	37.86	-8.14
660.010	15.50	---	46.00	22.66	38.16	-7.84
726.000	15.30	---	46.00	23.88	39.18	-6.82
792.000	15.20	---	46.00	24.70	39.90	-6.10

- 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

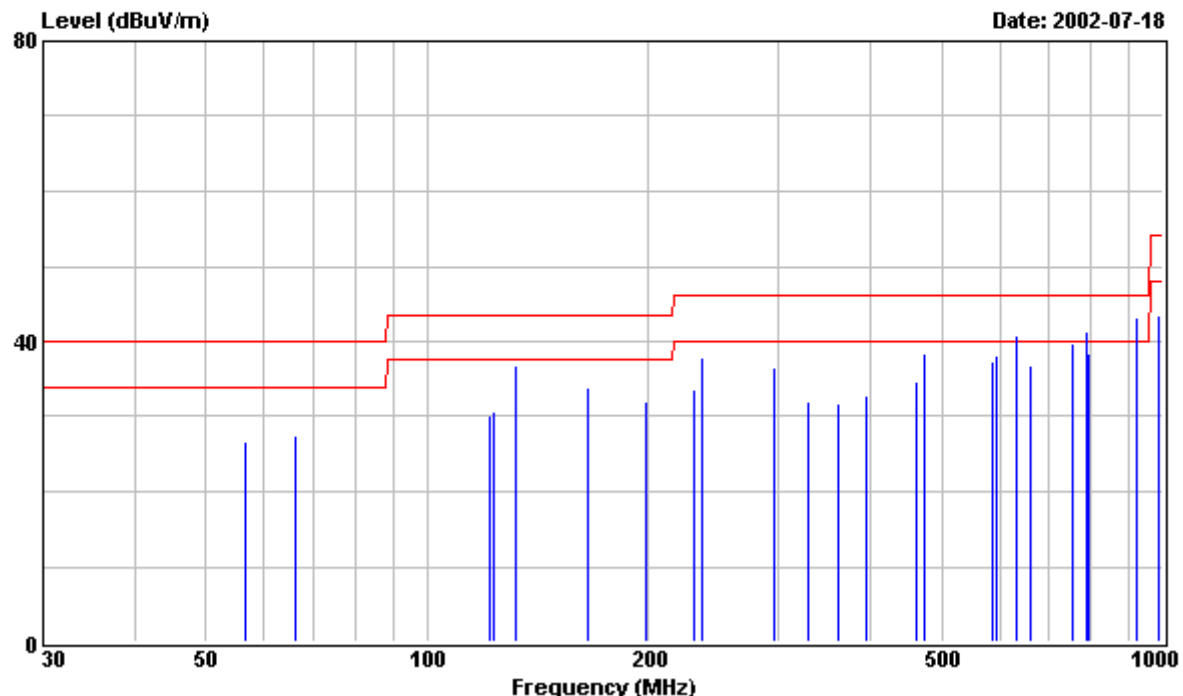


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Data#: 3

File#: C:\Program Files\em3\EMI02-036-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,DVI.
: 3. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	HORIZONTAL dBuV/m	dBuV/m
56.580	16.60	---	40.00	10.19	26.79	-13.21
66.000	17.50	---	40.00	9.96	27.46	-12.54
121.710	17.60	---	43.50	12.42	30.02	-13.48
122.710	18.20	---	43.50	12.45	30.65	-12.85
132.010	23.90	---	43.50	12.78	36.68	-6.82
165.010	20.00	---	43.50	13.83	33.83	-9.67
198.010	15.90	---	43.50	16.11	32.01	-11.49
231.000	14.60	---	46.00	18.99	33.59	-12.41
236.620	18.30	---	46.00	19.45	37.75	-8.25
297.000	13.50	---	46.00	23.04	36.54	-9.46
330.000	14.80	---	46.00	17.11	31.91	-14.09

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	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
					HORIZONTAL	
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m
363.000	14.00	---	46.00	17.74	31.74	-14.26
396.000	14.50	---	46.00	18.33	32.83	-13.17
462.000	15.40	---	46.00	19.25	34.65	-11.35
473.250	18.90	---	46.00	19.39	38.29	-7.71
587.170	16.30	---	46.00	21.03	37.33	-8.67
595.930	16.90	---	46.00	21.14	38.04	-7.96
630.980	---	16.53	46.00	21.98	38.51	-7.49
630.980	18.80	---	46.00	21.98	40.78	-5.22
659.980	14.20	---	46.00	22.61	36.81	-9.19
753.680	15.50	---	46.00	24.22	39.72	-6.28
788.740	16.70	---	46.00	24.66	41.36	-4.64
788.740	---	13.95	46.00	24.66	38.61	-7.39
791.970	13.80	---	46.00	24.70	38.50	-7.50
923.960	---	13.40	46.00	26.60	40.00	-6.00
923.960	16.50	---	46.00	26.60	43.10	-2.90
989.960	15.90	---	54.00	27.47	43.37	-10.63

- 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

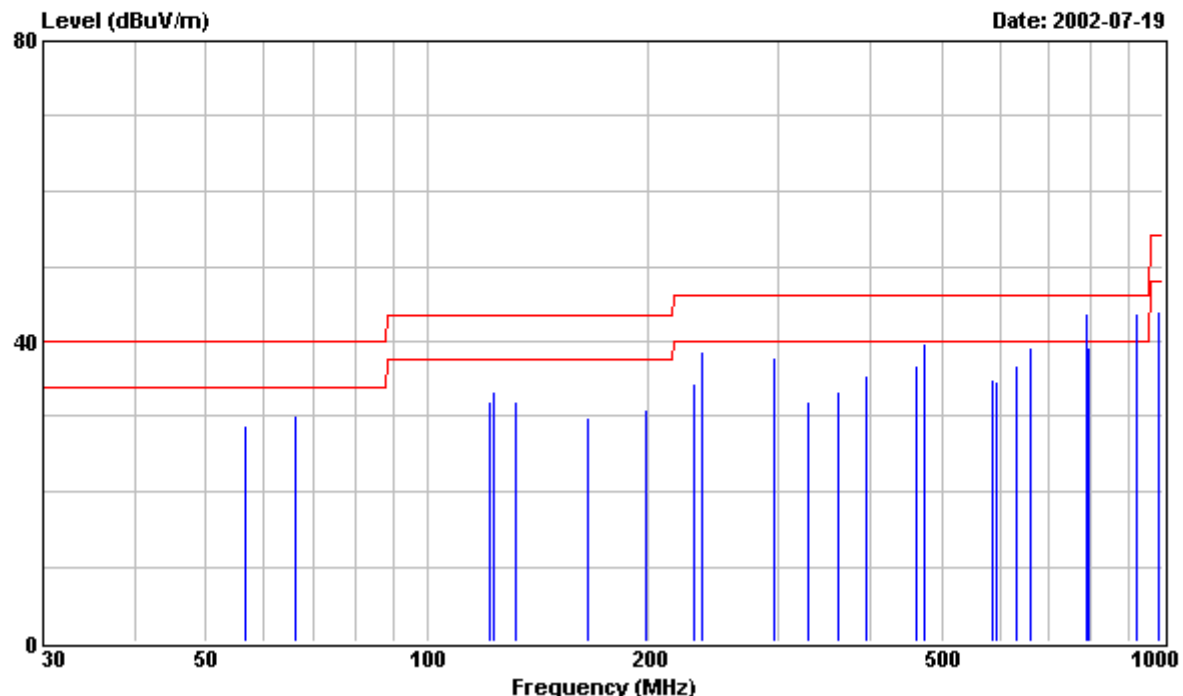


PHILIPS

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Data#: 4

File#: C:\Program Files\em3\EMI02-036-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,DVI.
: 3. 1024x768/75Hz 60KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m
56.580	18.50	---	40.00	10.19	28.69	-11.31
66.000	20.10	---	40.00	9.96	30.06	-9.94
121.710	19.50	---	43.50	12.42	31.92	-11.58
122.710	20.80	---	43.50	12.45	33.25	-10.25
132.010	19.10	---	43.50	12.78	31.88	-11.62
165.010	16.00	---	43.50	13.83	29.83	-13.67
198.010	14.80	---	43.50	16.11	30.91	-12.59
231.000	15.30	---	46.00	18.99	34.29	-11.71
236.620	19.20	---	46.00	19.45	38.65	-7.35
297.000	14.80	---	46.00	23.04	37.84	-8.16
330.000	15.00	---	46.00	17.11	32.11	-13.89

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	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m
363.000	15.70	---	46.00	17.74	33.44	-12.56
394.360	17.20	---	46.00	18.31	35.51	-10.49
396.000	16.80	---	46.00	18.33	35.13	-10.87
462.000	17.60	---	46.00	19.25	36.85	-9.15
473.250	20.30	---	46.00	19.39	39.69	-6.31
587.170	13.90	---	46.00	21.03	34.93	-11.07
595.930	13.50	---	46.00	21.14	34.64	-11.36
630.980	14.80	---	46.00	21.98	36.78	-9.22
659.980	16.50	---	46.00	22.61	39.11	-6.89
788.740	19.20	---	46.00	24.66	43.86	-2.14
788.740	---	16.83	46.00	24.66	41.49	-4.51
791.970	14.60	---	46.00	24.70	39.30	-6.70
923.960	---	14.00	46.00	26.60	40.60	-5.40
923.960	17.20	---	46.00	26.60	43.80	-2.20
989.950	---	16.50	54.00	27.47	43.97	-10.03

- 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

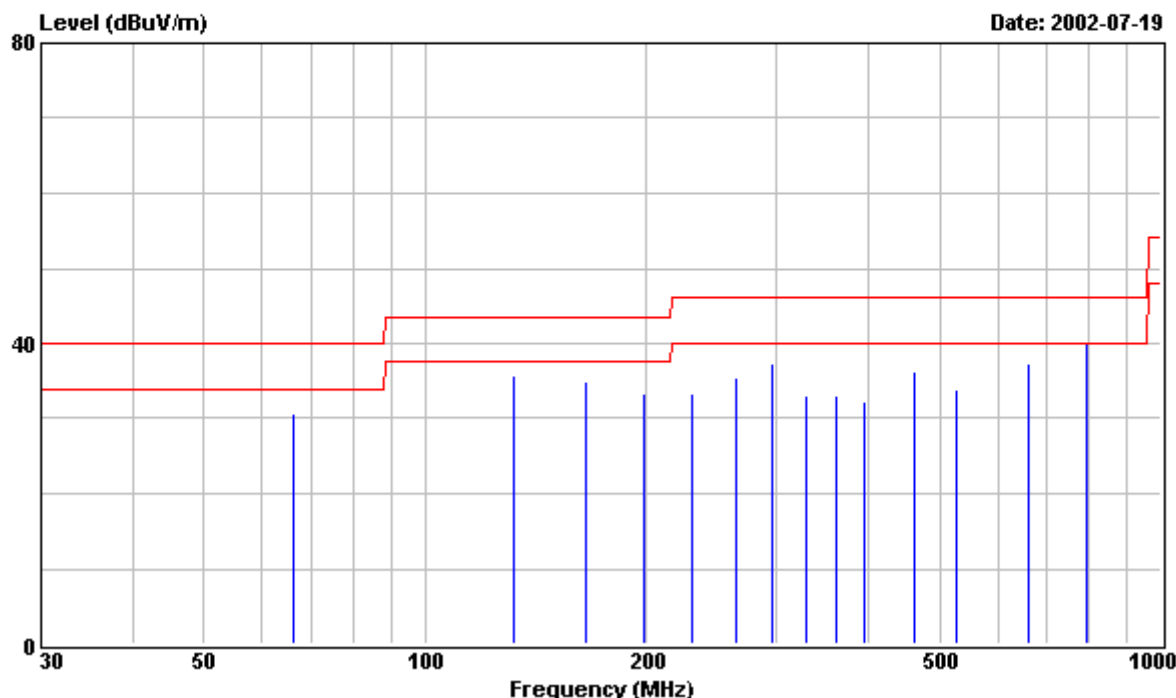


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Data#: 5

File#: C:\Program Files\em3\EMI02-036-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/60Hz 48KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	HORIZONTAL dBuV/m	dBuV/m
66.000	20.60	---	40.00	9.96	30.56	-9.44
132.020	22.90	---	43.50	12.78	35.68	-7.82
165.000	21.10	---	43.50	13.83	34.93	-8.57
198.000	17.30	---	43.50	16.11	33.41	-10.09
231.000	14.30	---	46.00	18.99	33.29	-12.71
264.000	14.20	---	46.00	21.28	35.48	-10.52
297.000	14.40	---	46.00	23.04	37.44	-8.56
330.000	15.90	---	46.00	17.11	33.01	-12.99
363.000	15.40	---	46.00	17.74	33.14	-12.86
396.000	14.00	---	46.00	18.33	32.33	-13.67
462.020	17.10	---	46.00	19.25	36.35	-9.65

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	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
					HORIZONTAL	
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m
528.000	13.80	---	46.00	20.16	33.96	-12.04
660.000	14.80	---	46.00	22.66	37.46	-8.54
792.000	15.40	---	46.00	24.70	40.10	-5.90

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

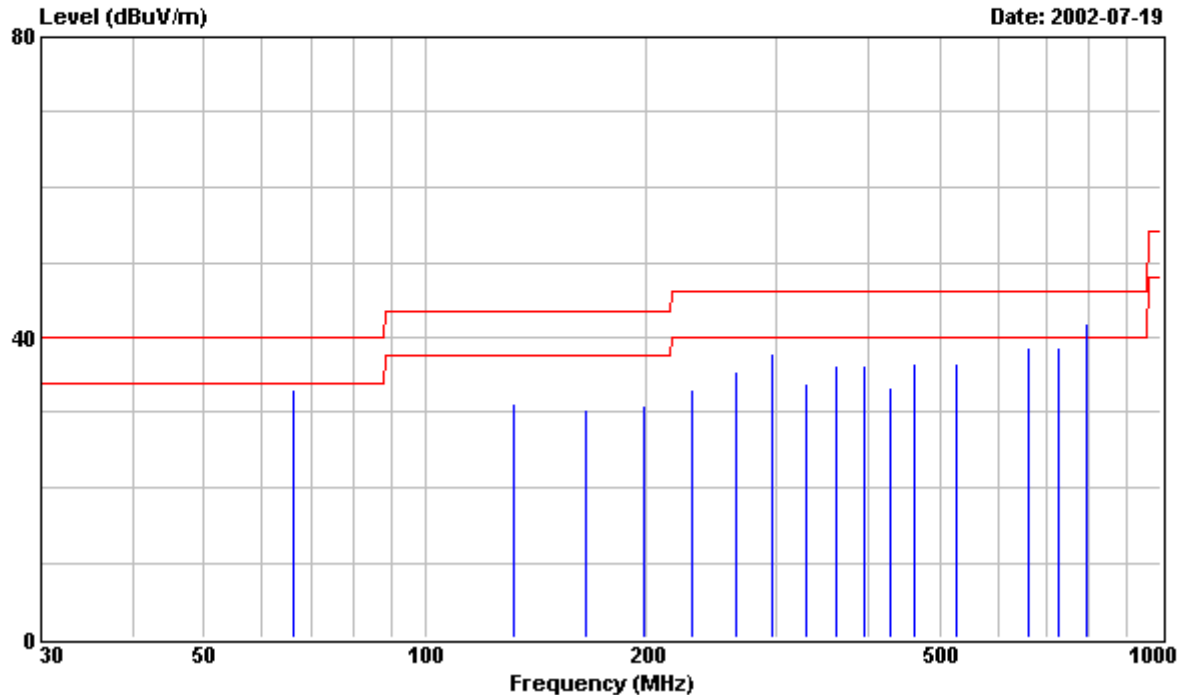


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Data#: 6

File#: C:\Program Files\em3\EMI02-036-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 150P3 Serial No:TY0205274
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. T/R MODEL HANNSTAR PANEL,RUN IBM
: V1.8 FONT 14 "H" PATTERN,D-SUB.
: 3. 1024x768/60Hz 48KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: CP CORP. AR6S VIDEO CARD,HEADPHONE
: & MICROPHON WAS TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m
66.000	23.10	---	40.00	9.96	33.06	-6.94
132.020	18.30	---	43.50	12.78	31.08	-12.42
165.000	16.60	---	43.50	13.83	30.43	-13.07
198.000	14.90	---	43.50	16.11	31.01	-12.49
231.000	14.10	---	46.00	18.99	33.09	-12.91
264.000	14.30	---	46.00	21.28	35.58	-10.42
297.000	14.80	---	46.00	23.04	37.84	-8.16
330.000	16.70	---	46.00	17.11	33.81	-12.19
363.000	18.40	---	46.00	17.74	36.14	-9.86
396.000	18.00	---	46.00	18.33	36.33	-9.67
429.000	14.60	---	46.00	18.81	33.41	-12.59

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	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit
					VERTICAL	
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m
462.000	17.20	---	46.00	19.25	36.45	-9.55
528.000	16.30	---	46.00	20.16	36.46	-9.54
660.000	15.90	---	46.00	22.66	38.56	-7.44
726.000	14.90	---	46.00	23.88	38.78	-7.22
792.000	17.10	---	46.00	24.70	41.80	-4.20
792.000	---	14.47	46.00	24.70	39.17	-6.83

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