



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.: TYR87-2040 Date : 18 February, 2003 Page : Page 1 of 48
Customer : Philips Electronics Industries Name : Mr. S.T. Huang – EE LCD Address : 5, Tze Chiang 1 Road, Zip/City : Chungli Industrial Park, Country : Chungli, Taiwan, R.O.C.		
Equipment Under Test (including peripherals) : FCC ID. : A3KM119 Model Name : 107T51 Serial Number : TY0212761(CRT: LG.PHILIPS), TY0212776(CRT: CHUNGHWA) Description : 17" XGA color monitor, Max. resolution 1280x1024/60Hz		
EMC Standards : FCC Part 15 of October 01,1999 Class B ANSI C63.4-1992 Result : PASSED the limits/test-levels in the standards. Note : The results in this report apply only to the sample(s) and mode(s) tested. It is the manufacturer's responsibility to assume the continued EMC compliance of production models.		
Date of receipt of EUT : 30 Jan. 2003 Date of performance of test : 09 Feb., 2003 to 13 Feb., 2003		
 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, 17" color monitor :

Model No. : 107T51
 FCC ID : A3KM119
 Brand : PHILIPS

The color monitor automatically scans horizontal frequencies between 30KHz and 70KHz , and vertical frequencies between 50Hz and 160Hz. This color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1280x1024 pixels.

The monitor has 8 factory-preset modes as indicated in the following table:

	Resolution	H. freq.	V. freq.	H.	V.
1.	720 x 400	31.5 KHz	70Hz (VGA)	-	+
2.	640 x 480	31.47 KHz	60Hz (VGA)	-	-
3.	640 x 480	43.3 KHz	85Hz (VESA)	-	-
4.	800 x 600	46.9 KHz	75Hz (VESA)	+	+
5.	800 x 600	53.674KHz	85Hz (VESA)	+	+
6.	1280 x 960	60 KHz	60 Hz	+	+
7.	1024 x 768	68.7 KHz	85Hz (VESA)	+	+
8.	1280 x 1024	64.0 KHz	60Hz (VESA)	+	+

3. Test Equipment

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

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

- For Conducted Emissions Test:

Test Equipment	Model No.	Serial No.	Last Calibrate	Next Calibrate
Spectrum	HP8568B	2928A04640	06/27/2002	06/27/2003
EMI Receiver	R & S ESVS30	841977/006	06/13/2002	06/13/2003
LISN	EMCO 3825/2	9311-2153	06/13/2002	06/13/2003
LISN	EMCO 3825/2	9311-2154	06/13/2002	06/13/2003
RF Cable	8-meter	N/A	05/29-2002	05/29/2003

- For Radiated Emissions Test:

Test Equipment	Model No.	Serial No.	Last Calibrate	Next Calibrate
Spectrum	HP8568B	2928A04640	06/27/2002	06/27/2003
RF Preselector	HP85685A	2620A00338	06/27/2002	06/27/2003
QP Adapter	HP85650A	2811A01324	06/27/2002	06/27/2003
EMI Receiver	R & S ESVS30	841977/006	06/13/2002	06/13/2003
Biconical Antenna	EMCO 3110B	3222	06/04/2002	06/04/2003
Biconical Antenna	EMCO 3110B	3224	06/04/2002	06/04/2003
Log-Periodic Antenna	EMCO 3146A	1424	06/04/2002	06/04/2003
Log-Periodic Antenna	EMCO 3146A	1425	06/04/2002	06/04/2003
Turn Table	EMCO 1060	1068	05/27/2002	05/27/2003
Antenna Tower	EMCO 1050	1113	05/27/2002	05/27/2003
RF Cable	M17/75-RG214-NE	N/A	05/27/2002	05/27/2003

4. Test Configuration of EUT and Peripherals

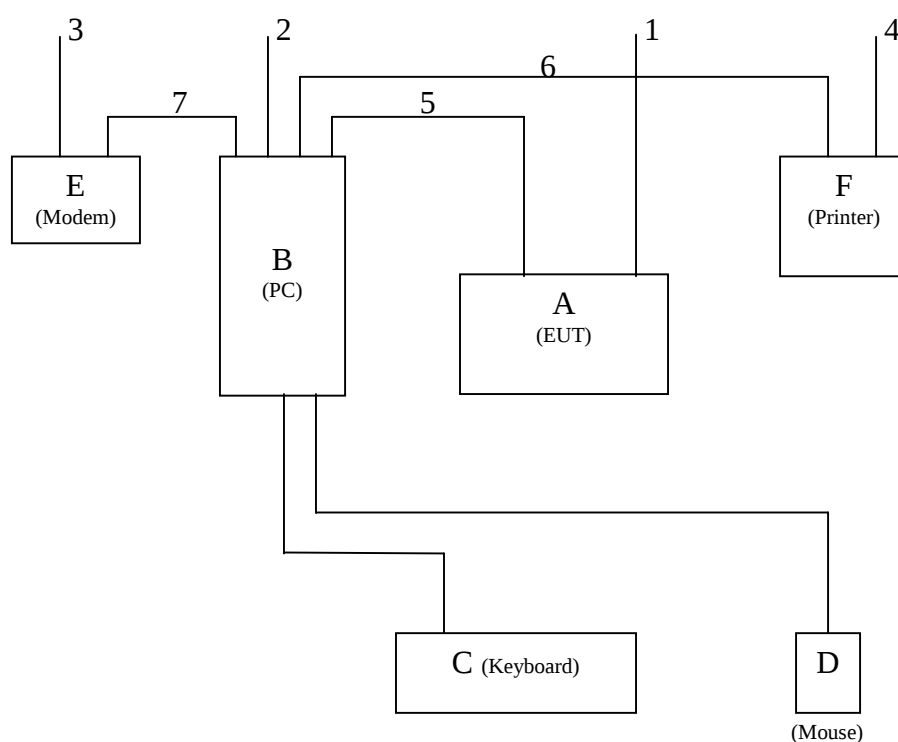
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “107T51” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	Philips 107T51	TY0212761 TY0212776	A3KM119	EUT
B	PC	Compaq ENC P866	5K15FXHZ2013	FCC Logo	
C	Keyboard	Compaq KB-9963	B26950GGALP13Q	FCC Logo	
D	Mouse	Compaq M-S48a		JNZ201213	
E	Modem	Hayes 231AA	A22231081770	BFJ9D9308US	
F	Printer	HP 2225C	2934S55406	DSI6XU2225	

Connected Cables

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

System Block Diagram of Test Configuration



5. Test Procedure

Test was performed by:

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

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

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

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

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

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

Unshielded power cord was used during test.
[D-sub I/F cable with two ferrite cores was used.](#)

Tested and reported modes as following:

Test Item	File No.	Resolution	Frequencies	I/F Cable
Conducted	EMI03-006-C (CHUNGHWA)	1024x768	68.7KHz/85Hz	D-sub
	EMI03-007-C (LG.PHILIPS)	1280x1024	64KHz/60Hz	D-sub
Radiated	EMI03-006-R (CHUNGHWA)	1024x768	68.7KHz/85Hz	D-sub
	EMI03-007-R (LG.PHILIPS)	1280x1024	64KHz/60Hz	D-sub

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

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

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

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

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

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

Step 5 : Personal computer sends a file of “H” patten 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

: 09 Feb., 2003 to 13 Feb., 2003

Test Engineer

: C.C.Wu

For detail measurement results see next pages.

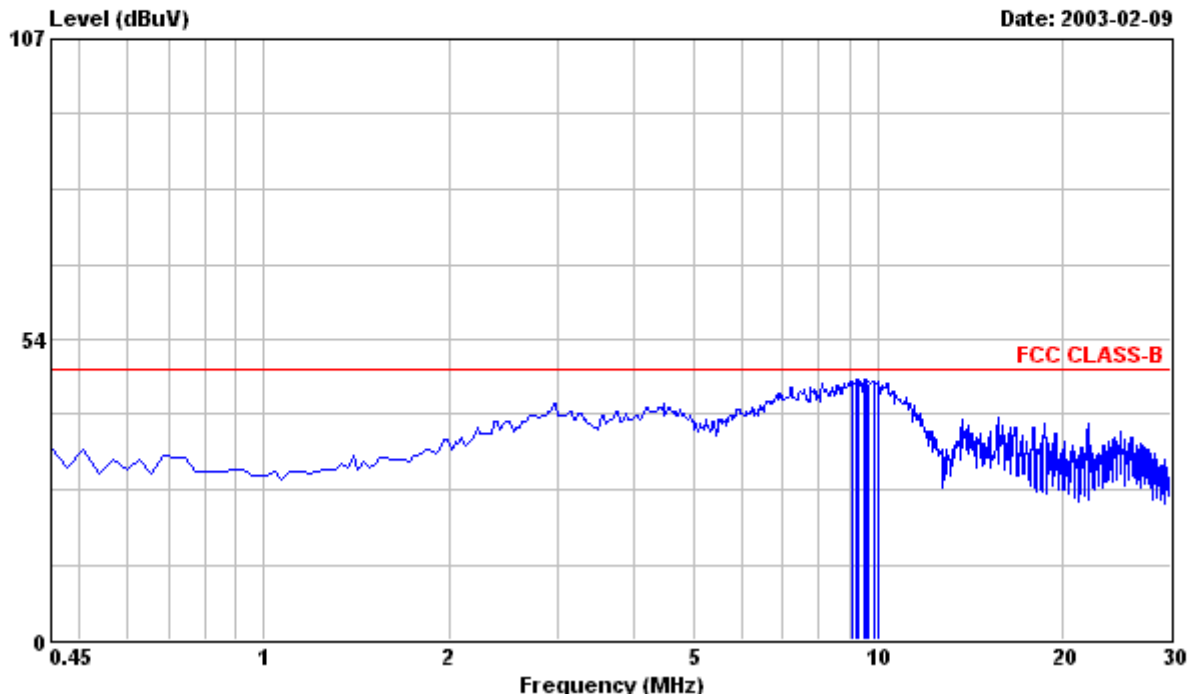


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Data#: 1

File#: C:\Program Files\em3\EMI03-006-C(107T51 CPT).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 14 ARIAL"H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
9.079	45.50	---	48.00	0.51	46.01	-1.99	Peak
9.256	45.90	---	48.00	0.53	46.43	-1.57	Peak
9.315	45.80	---	48.00	0.54	46.34	-1.66	Peak
9.492	45.70	---	48.00	0.55	46.25	-1.75	Peak
9.610	45.80	---	48.00	0.56	46.36	-1.64	Peak
9.670	45.40	---	48.00	0.57	45.97	-2.03	Peak
9.847	45.60	---	48.00	0.59	46.19	-1.81	Peak
10.024	45.40	---	48.00	0.60	46.00	-2.00	Peak

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

Tested by : C.C.Wu

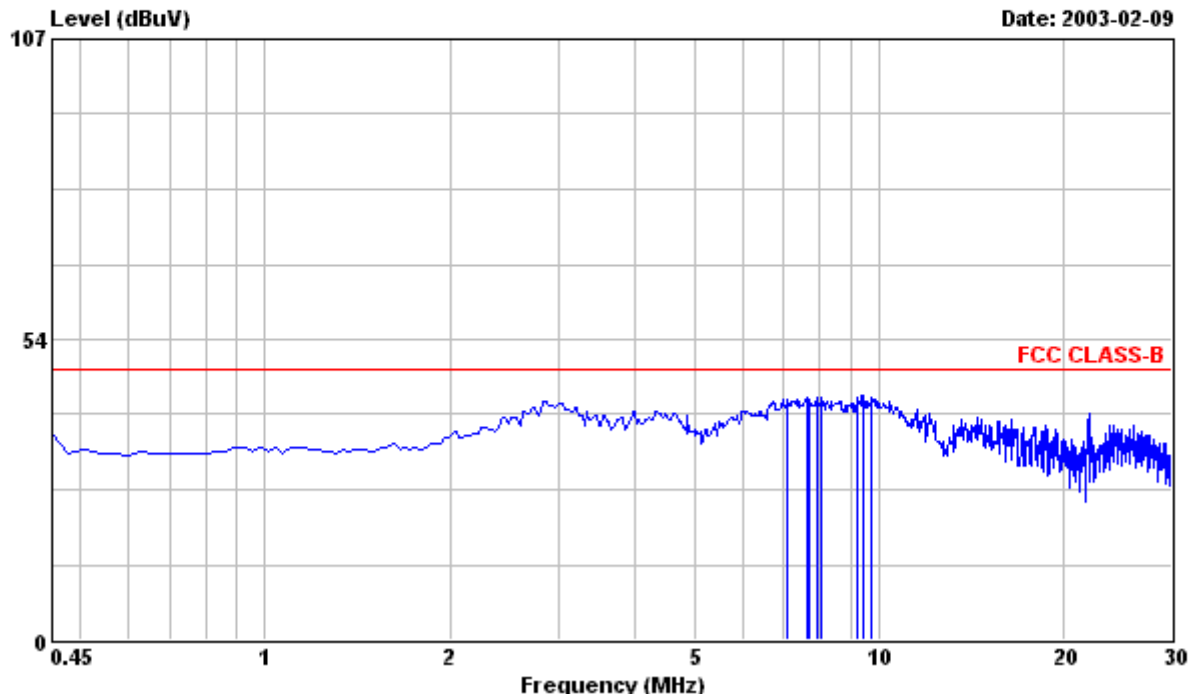


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Data#: 2

File#: C:\Program Files\em3\EMI03-006-C(107T51 CPT).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 14 ARIAL"H"PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
7.069	42.50	---	48.00	0.40	42.90	-5.10	Peak
7.660	42.60	---	48.00	0.40	43.00	-5.00	Peak
7.719	42.50	---	48.00	0.40	42.90	-5.10	Peak
7.956	42.60	---	48.00	0.40	43.00	-5.00	Peak
8.074	42.80	---	48.00	0.41	43.21	-4.79	Peak
9.256	42.70	---	48.00	0.53	43.23	-4.77	Peak
9.433	43.10	---	48.00	0.55	43.65	-4.35	Peak
9.729	42.70	---	48.00	0.58	43.28	-4.72	Peak

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

Tested by : C.C.Wu

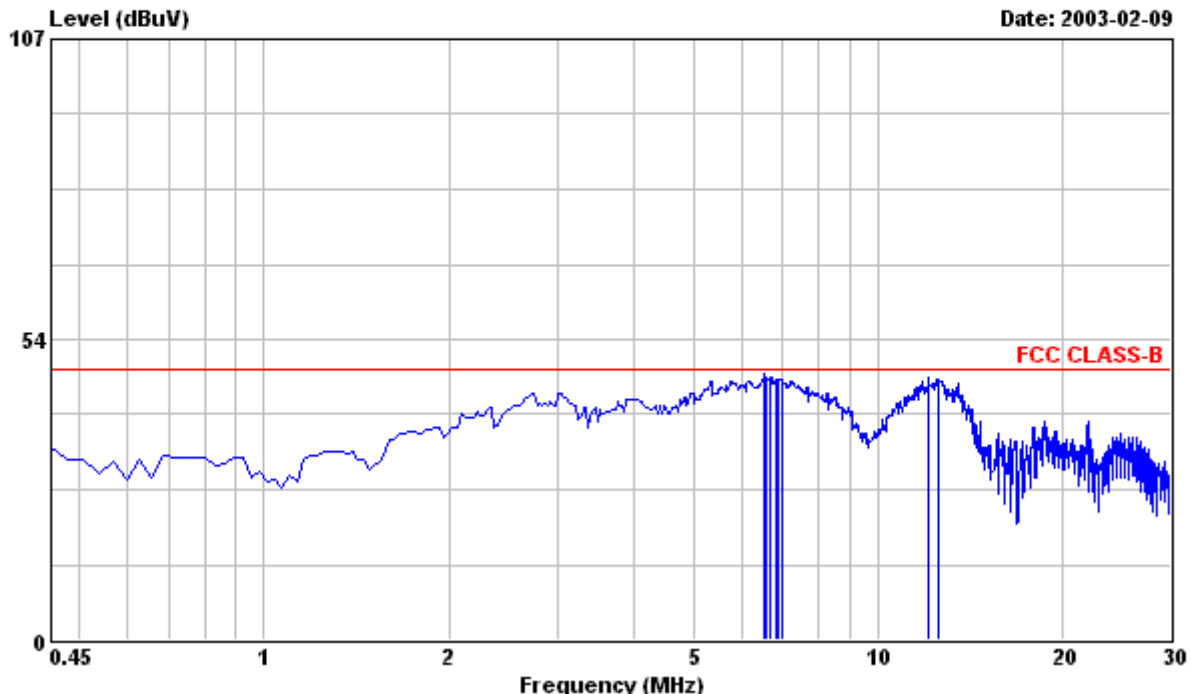


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Data#: 3

File#: C:\Program Files\em3\EMI03-006-C(107T51 CPT).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 14 ARIAL"H"PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
6.537	47.10	---	48.00	0.40	47.50	-0.50	Peak
6.596	46.10	---	48.00	0.40	46.50	-1.50	Peak
6.655	46.40	---	48.00	0.40	46.80	-1.20	Peak
6.833	46.00	---	48.00	0.40	46.40	-1.60	Peak
6.892	45.90	---	48.00	0.40	46.30	-1.70	Peak
7.010	46.10	---	48.00	0.40	46.50	-1.50	Peak
12.093	46.10	---	48.00	0.65	46.75	-1.25	Peak
12.506	45.70	---	48.00	0.66	46.36	-1.64	Peak

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

Tested by : C.C.Wu

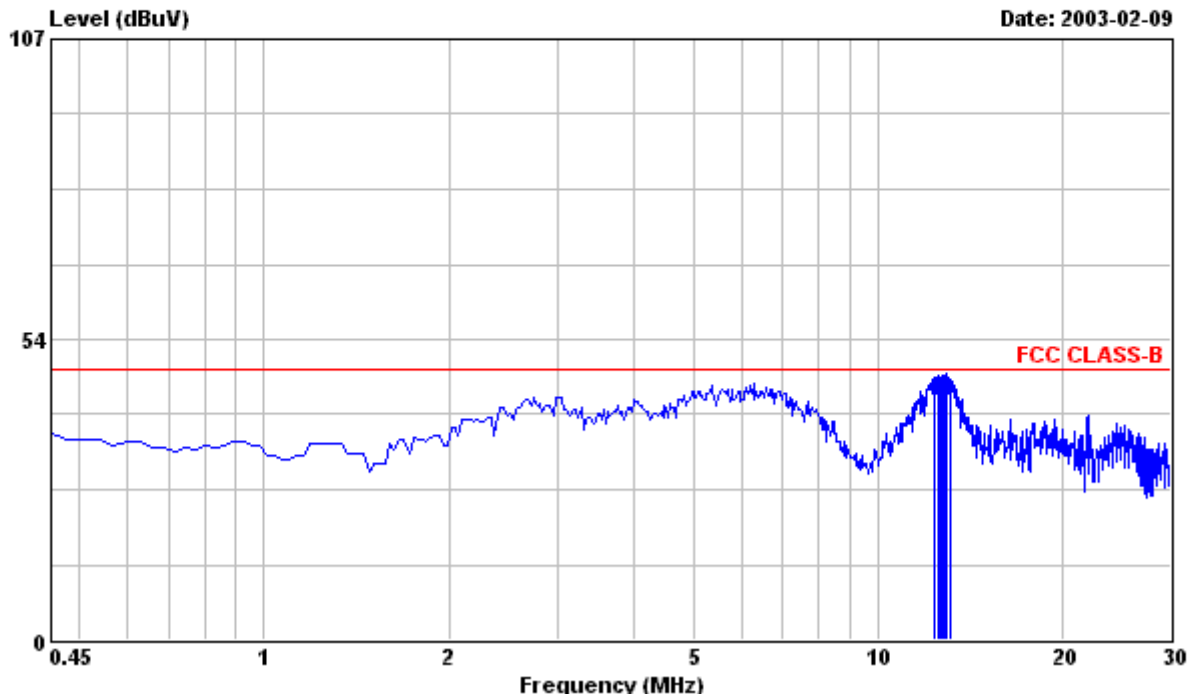


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Data#: 4

File#: C:\Program Files\em3\EMI03-006-C(107T51 CPT).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 14 ARIAL"H"PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

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

12.388	46.10	---	48.00	0.65	46.75	-1.25	Peak
12.506	45.90	---	48.00	0.66	46.56	-1.44	Peak
12.566	46.30	---	48.00	0.66	46.96	-1.04	Peak
12.625	46.00	---	48.00	0.66	46.66	-1.34	Peak
12.743	46.40	---	48.00	0.66	47.06	-0.94	Peak
12.861	46.50	---	48.00	0.66	47.16	-0.84	Peak
12.979	46.90	---	48.00	0.66	47.56	-0.44	Peak
13.097	45.80	---	48.00	0.67	46.47	-1.53	Peak

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

Tested by : C.C.Wu

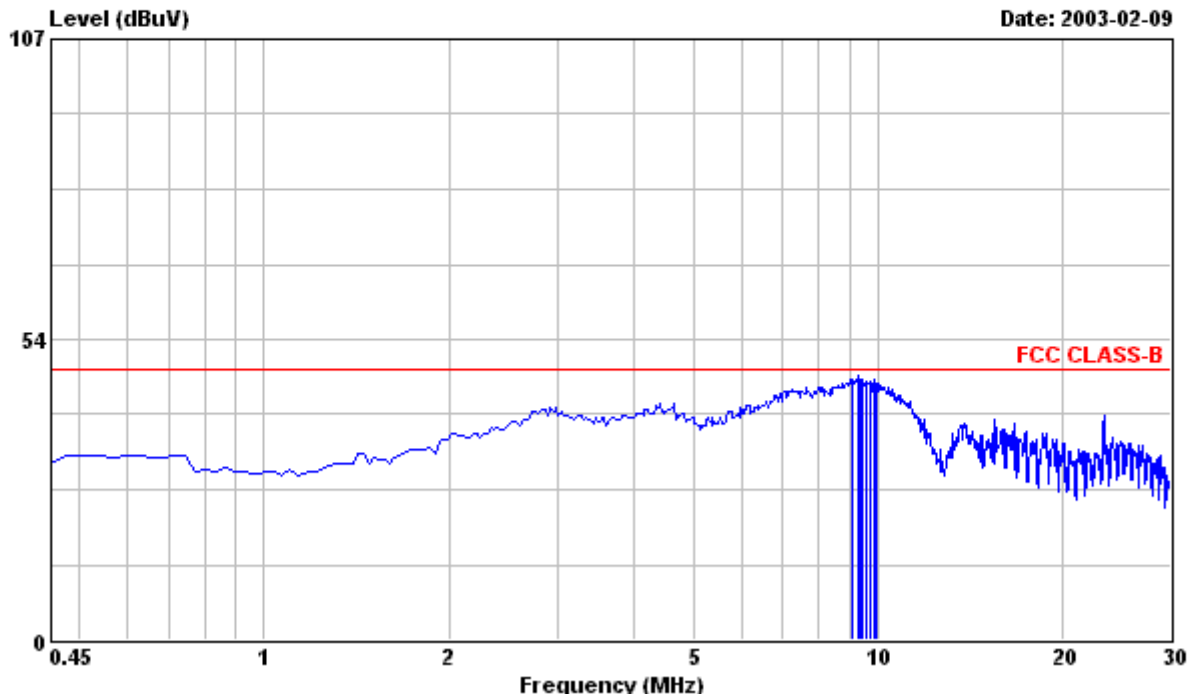


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Data#: 5

File#: C:\Program Files\em3\EMI03-006-C(107T51 CPT).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 16 ARIAL"H"PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
9.079	45.70	---	48.00	0.51	46.21	-1.79	Peak
9.315	46.40	---	48.00	0.54	46.94	-1.06	Peak
9.374	45.80	---	48.00	0.54	46.34	-1.66	Peak
9.433	45.70	---	48.00	0.55	46.25	-1.75	Peak
9.551	45.30	---	48.00	0.56	45.86	-2.14	Peak
9.729	45.60	---	48.00	0.58	46.18	-1.82	Peak
9.847	45.70	---	48.00	0.59	46.29	-1.71	Peak
9.906	45.20	---	48.00	0.59	45.79	-2.21	Peak

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

Tested by : C.C.Wu

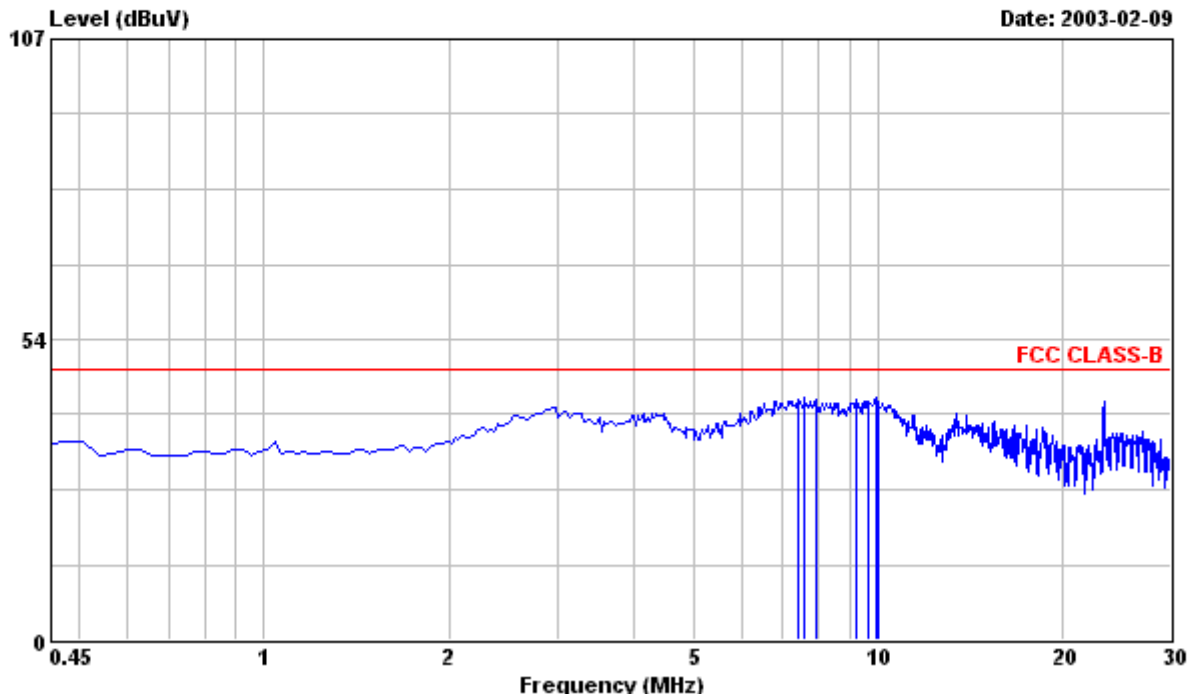


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Data#: 6

File#: C:\Program Files\em3\EMI03-006-C(107T51 CPT).emi



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Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 16 ARIAL"H"PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
7.424	42.30	---	48.00	0.40	42.70	-5.30	Peak
7.601	42.80	---	48.00	0.40	43.20	-4.80	Peak
7.956	42.50	---	48.00	0.40	42.90	-5.10	Peak
9.256	42.20	---	48.00	0.53	42.73	-5.27	Peak
9.670	42.00	---	48.00	0.57	42.57	-5.43	Peak
9.906	42.10	---	48.00	0.59	42.69	-5.31	Peak
9.965	42.40	---	48.00	0.60	43.00	-5.00	Peak
10.024	42.00	---	48.00	0.60	42.60	-5.40	Peak

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

Tested by : C.C.Wu

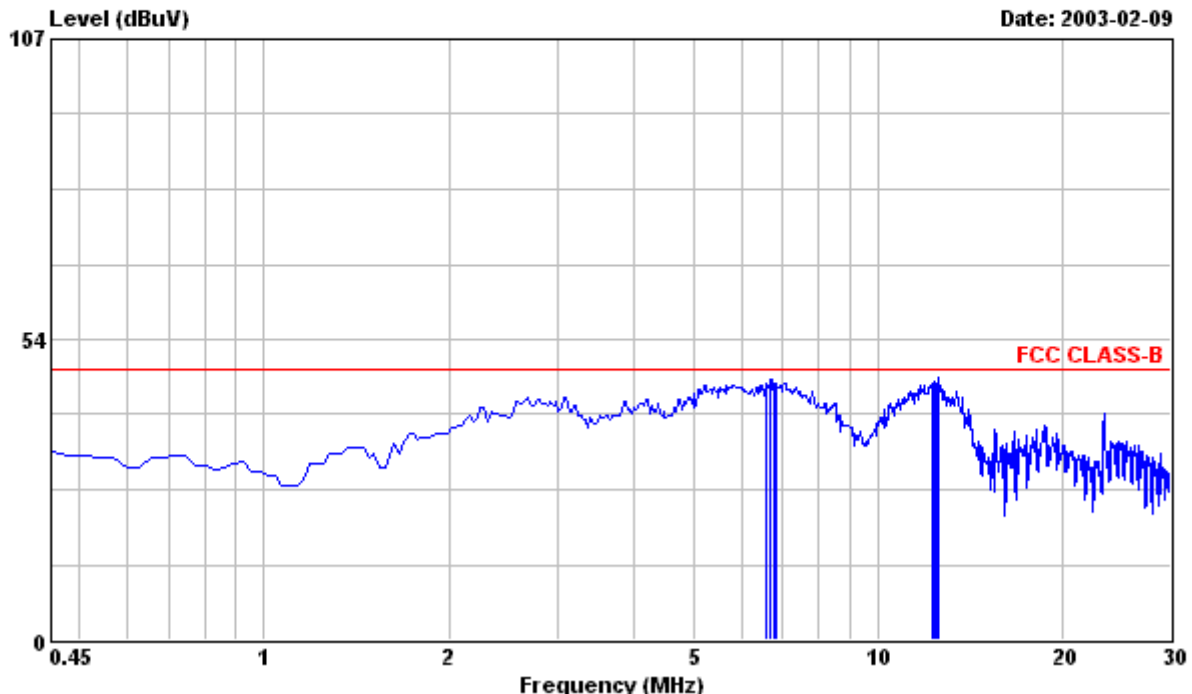


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Data#: 7

File#: C:\Program Files\em3\EMI03-006-C(107T51 CPT).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 16 ARIAL"H"PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
6.596	45.40	---	48.00	0.40	45.80	-2.20	Peak
6.655	46.10	---	48.00	0.40	46.50	-1.50	Peak
6.774	45.40	---	48.00	0.40	45.80	-2.20	Peak
6.833	45.30	---	48.00	0.40	45.70	-2.30	Peak
12.270	44.90	---	48.00	0.65	45.55	-2.45	Peak
12.388	45.50	---	48.00	0.65	46.15	-1.85	Peak
12.447	45.10	---	48.00	0.65	45.75	-2.25	Peak
12.566	46.10	---	48.00	0.66	46.76	-1.24	Peak

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

Tested by : C.C.Wu

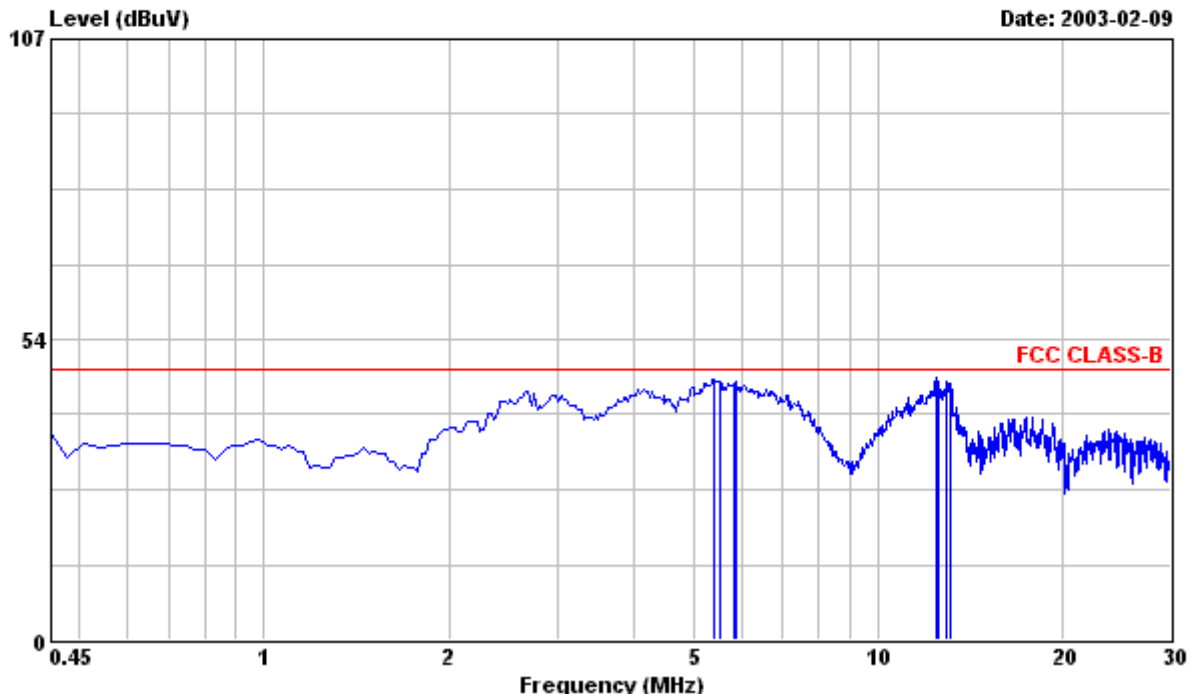


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Data#: 8

File#: C:\Program Files\em3\EMI03-006-C(107T51 CPT).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 16 ARIAL"H"PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
5.414	46.00	---	48.00	0.34	46.34	-1.66	Peak
5.533	45.70	---	48.00	0.35	46.05	-1.95	Peak
5.828	45.40	---	48.00	0.38	45.78	-2.22	Peak
5.887	45.60	---	48.00	0.39	45.99	-2.01	Peak
12.447	46.20	---	48.00	0.65	46.85	-1.15	Peak
12.506	45.20	---	48.00	0.66	45.86	-2.14	Peak
12.920	45.30	---	48.00	0.66	45.96	-2.04	Peak
13.097	45.10	---	48.00	0.67	45.77	-2.23	Peak

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

Tested by : C.C.Wu

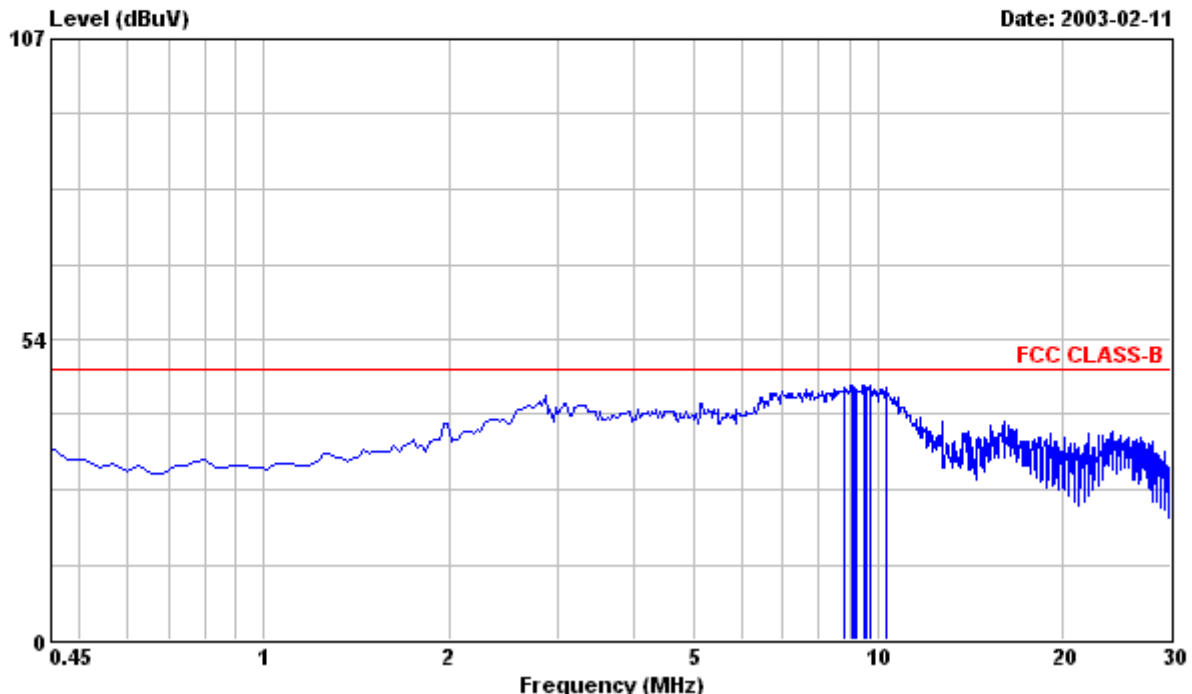


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Data#: 1

File#: C:\Program Files\em3\EMI03-007-C(107T51 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL"H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
8.842	44.40	---	48.00	0.49	44.89	-3.11	Peak
9.079	44.80	---	48.00	0.51	45.31	-2.69	Peak
9.138	44.30	---	48.00	0.52	44.82	-3.18	Peak
9.256	44.20	---	48.00	0.53	44.73	-3.27	Peak
9.492	44.60	---	48.00	0.55	45.15	-2.85	Peak
9.551	44.40	---	48.00	0.56	44.96	-3.04	Peak
9.729	44.60	---	48.00	0.58	45.18	-2.82	Peak
10.320	44.40	---	48.00	0.61	45.01	-2.99	Peak

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

Tested by : C.C.Wu

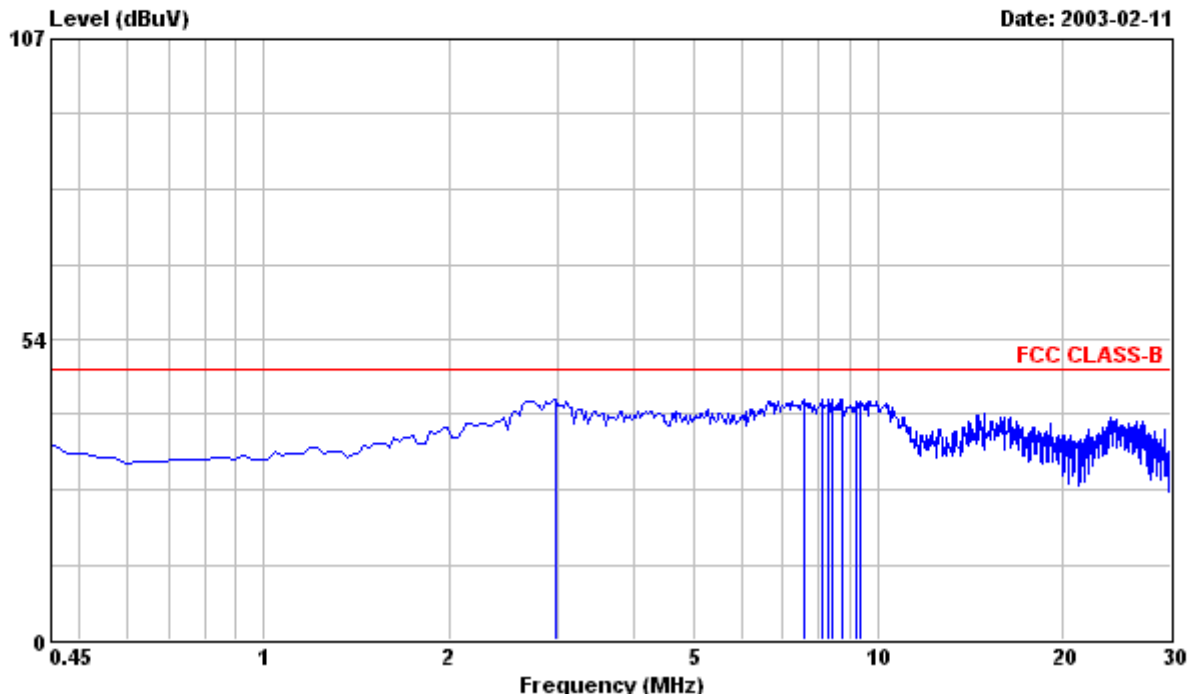


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Data#: 2

File#: C:\Program Files\em3\EMI03-007-C(107T51 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL"H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
2.991	42.30	---	48.00	0.40	42.70	-5.30	Peak
7.601	42.30	---	48.00	0.40	42.70	-5.30	Peak
8.133	42.30	---	48.00	0.41	42.71	-5.29	Peak
8.310	42.20	---	48.00	0.43	42.63	-5.37	Peak
8.429	42.40	---	48.00	0.45	42.85	-5.15	Peak
8.724	42.20	---	48.00	0.47	42.67	-5.33	Peak
9.256	42.00	---	48.00	0.53	42.53	-5.47	Peak
9.374	42.00	---	48.00	0.54	42.54	-5.46	Peak

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

Tested by : C.C.Wu

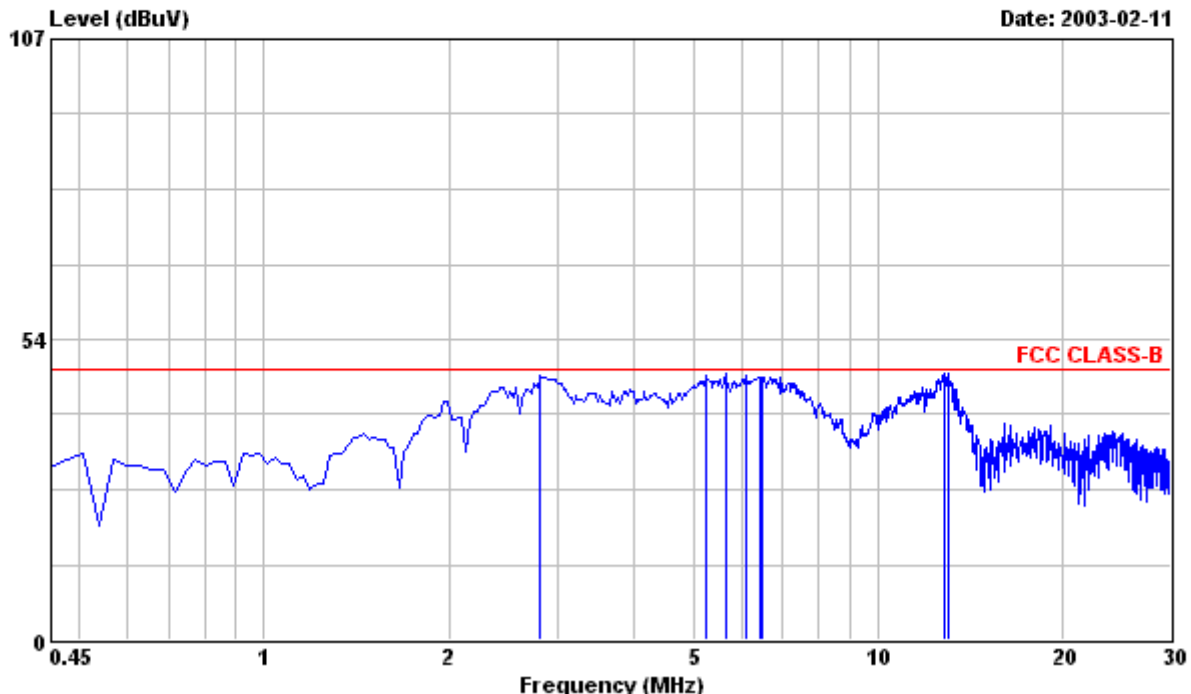


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Data#: 3

File#: C:\Program Files\em3\EMI03-007-C(107T51 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL"H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
2.814	46.80	---	48.00	0.40	47.20	-0.80	Peak
5.237	46.79	---	48.00	0.33	47.12	-0.88	Peak
5.651	47.10	---	48.00	0.37	47.47	-0.53	Peak
6.124	46.60	---	48.00	0.40	47.00	-1.00	Peak
6.419	46.50	---	48.00	0.40	46.90	-1.10	Peak
6.478	46.50	---	48.00	0.40	46.90	-1.10	Peak
12.861	46.70	---	48.00	0.66	47.36	-0.64	Peak
13.038	46.90	---	48.00	0.67	47.57	-0.43	Peak

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

Tested by : C.C.Wu

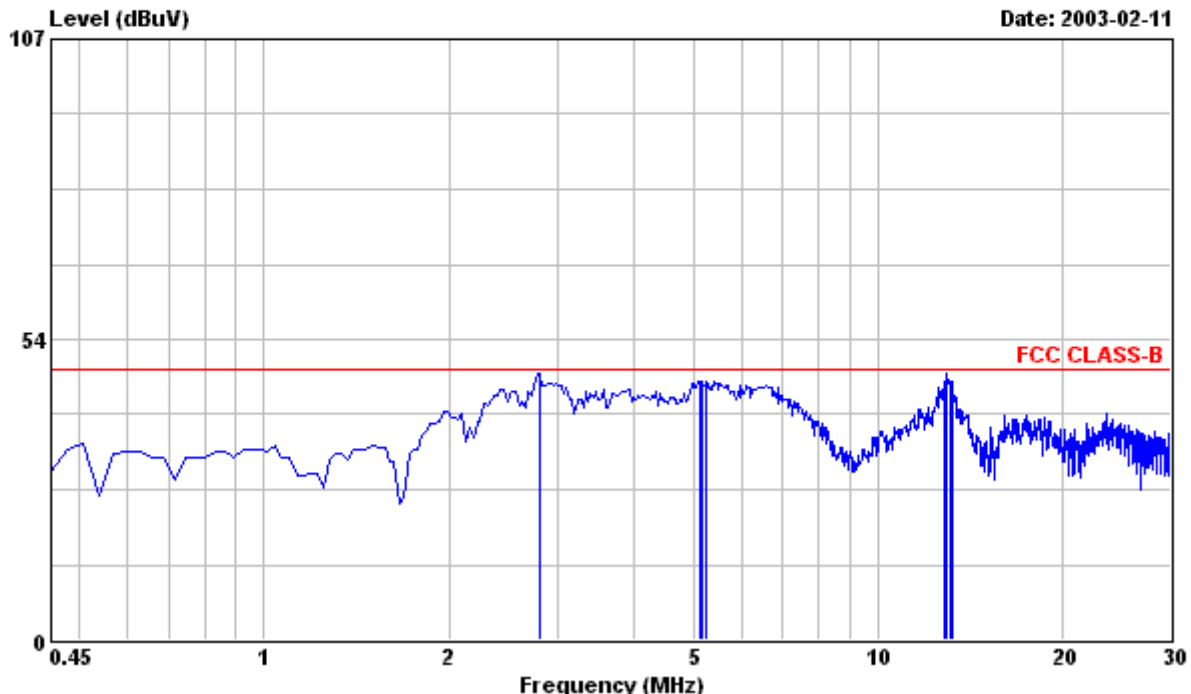


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Data#: 4

File#: C:\Program Files\em3\EMI03-007-C(107T51 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL"H"PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/2OE/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
2.814	46.90	---	48.00	0.40	47.30	-0.70	Peak
5.119	45.70	---	48.00	0.31	46.01	-1.99	Peak
5.178	45.80	---	48.00	0.32	46.12	-1.88	Peak
5.237	45.59	---	48.00	0.33	45.92	-2.08	Peak
12.861	45.50	---	48.00	0.66	46.16	-1.84	Peak
12.979	46.90	---	48.00	0.66	47.56	-0.44	Peak
13.097	45.30	---	48.00	0.67	45.97	-2.03	Peak
13.216	45.50	---	48.00	0.67	46.17	-1.83	Peak

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

Tested by : C.C.Wu

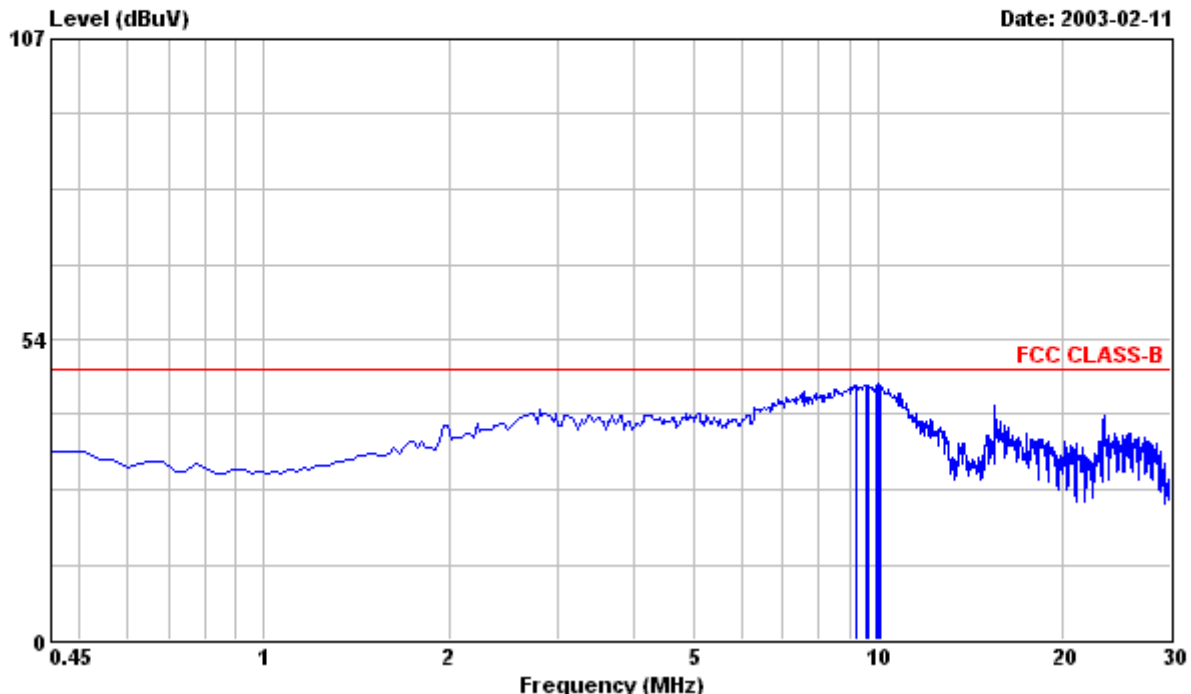


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Data#: 5

File#: C:\Program Files\em3\EMI03-007-C(107T51 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL"H" PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
9.197	44.80	---	48.00	0.52	45.32	-2.68	Peak
9.256	44.60	---	48.00	0.53	45.13	-2.87	Peak
9.551	44.80	---	48.00	0.56	45.36	-2.64	Peak
9.610	44.70	---	48.00	0.56	45.26	-2.74	Peak
9.670	44.60	---	48.00	0.57	45.17	-2.83	Peak
9.965	44.70	---	48.00	0.60	45.30	-2.70	Peak
10.024	45.00	---	48.00	0.60	45.60	-2.40	Peak
10.083	44.60	---	48.00	0.60	45.20	-2.80	Peak

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

Tested by : C.C.Wu

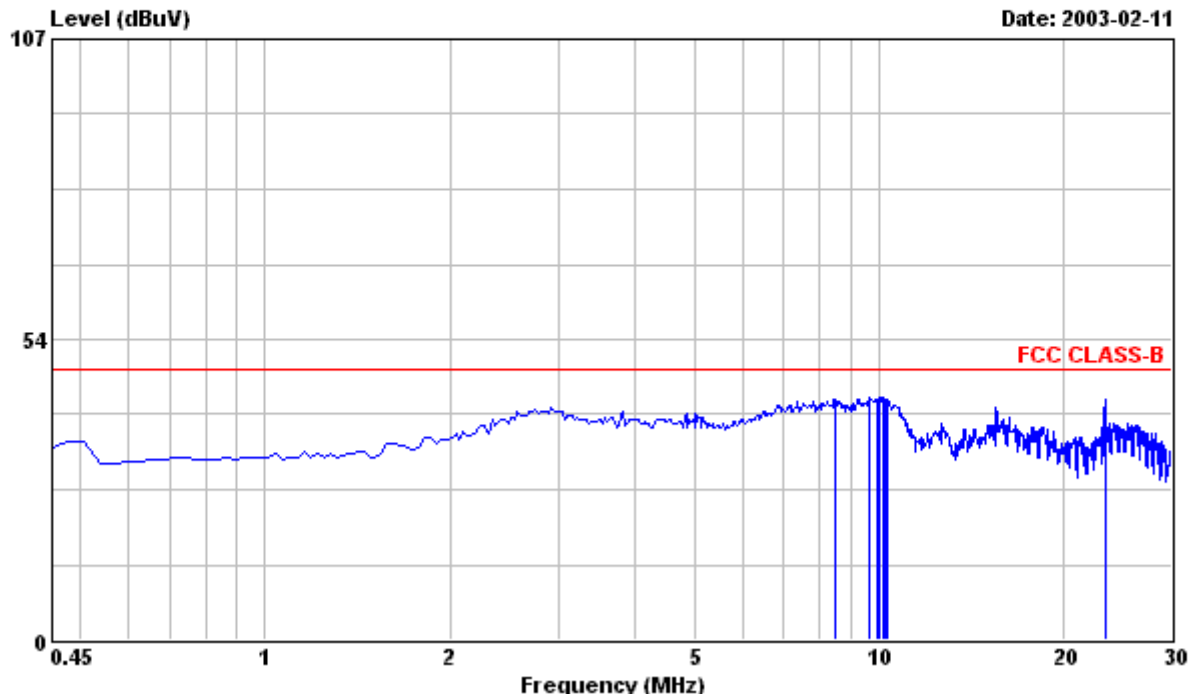


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Data#: 6

File#: C:\Program Files\em3\EMI03-007-C(107T51 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL"H" PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
8.488	42.30	---	48.00	0.45	42.75	-5.25	Peak
9.670	42.50	---	48.00	0.57	43.07	-4.93	Peak
9.906	42.20	---	48.00	0.59	42.79	-5.21	Peak
10.024	42.60	---	48.00	0.60	43.20	-4.80	Peak
10.142	42.60	---	48.00	0.60	43.20	-4.80	Peak
10.261	42.20	---	48.00	0.61	42.81	-5.19	Peak
10.320	42.30	---	48.00	0.61	42.91	-5.09	Peak
23.381	41.80	---	48.00	0.97	42.77	-5.23	Peak

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

Tested by : C.C.Wu

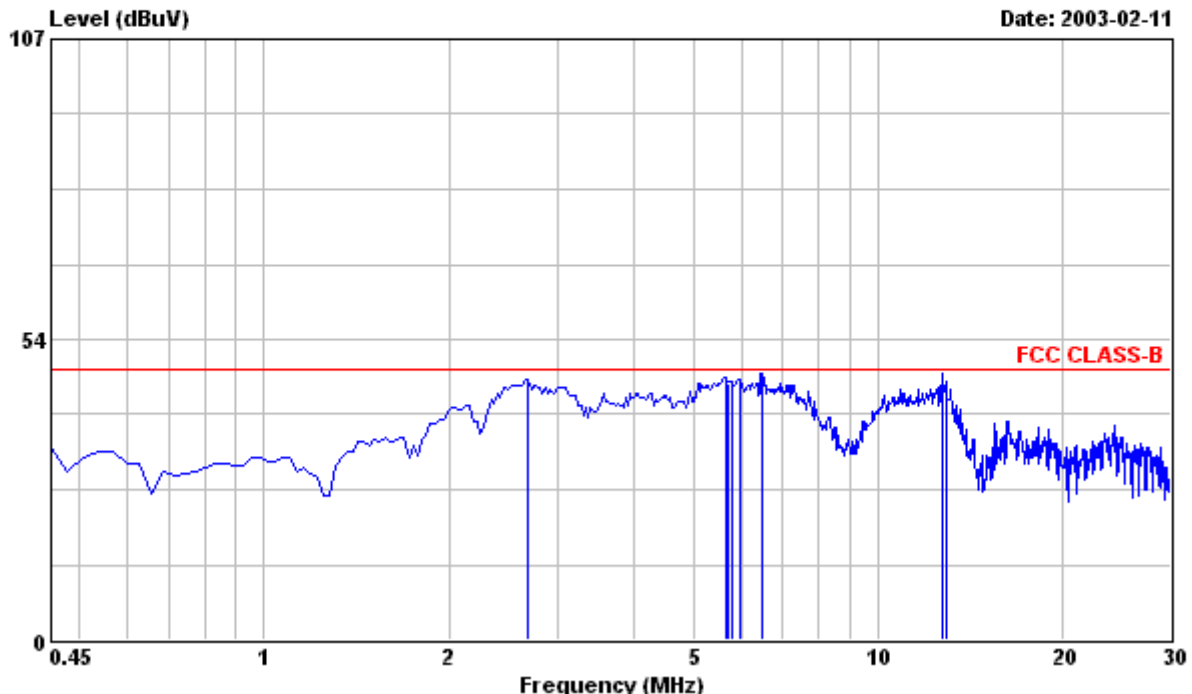


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Data#: 7

File#: C:\Program Files\em3\EMI03-007-C(107T51 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL"H"PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
2.696	46.10	---	48.00	0.40	46.50	-1.50	Peak
5.651	46.20	---	48.00	0.37	46.57	-1.43	Peak
5.710	45.70	---	48.00	0.37	46.07	-1.93	Peak
5.769	45.50	---	48.00	0.38	45.88	-2.12	Peak
5.946	46.00	---	48.00	0.40	46.40	-1.60	Peak
6.478	46.90	---	48.00	0.40	47.30	-0.70	Peak
12.743	46.60	---	48.00	0.66	47.26	-0.74	Peak
12.920	45.40	---	48.00	0.66	46.06	-1.94	Peak

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

Tested by : C.C.Wu

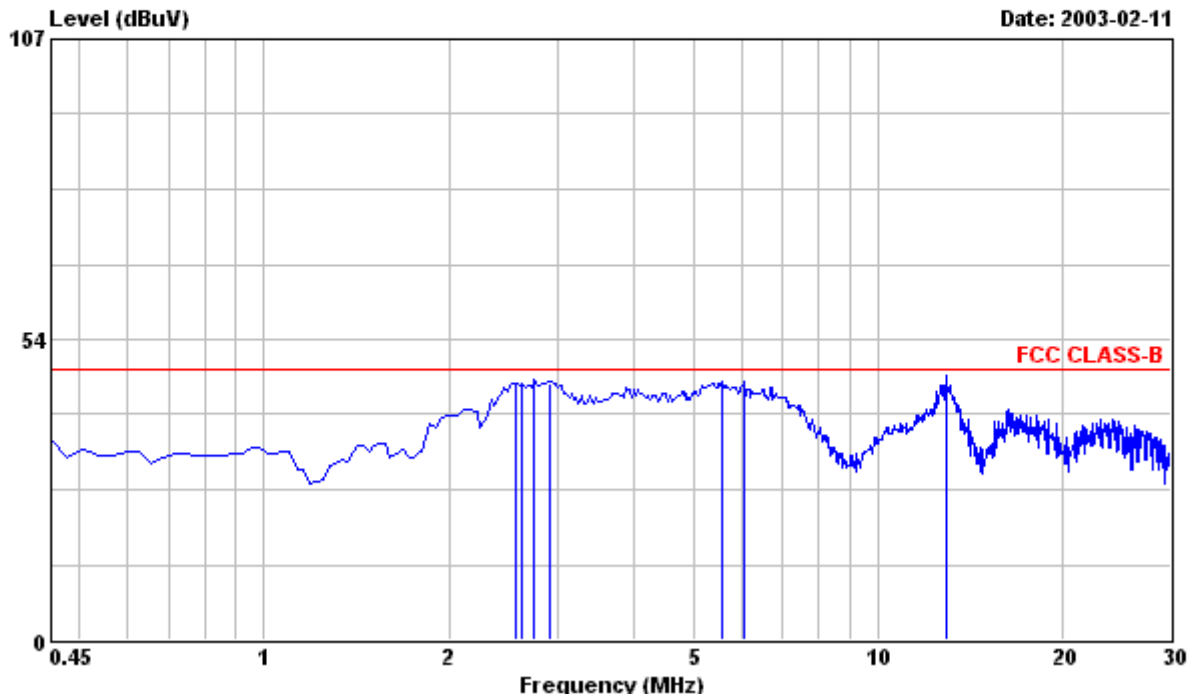


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Data#: 8

File#: C:\Program Files\em3\EMI03-007-C(107T51 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL"H"PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
2.578	45.40	---	48.00	0.40	45.80	-2.20	Peak
2.637	45.40	---	48.00	0.40	45.80	-2.20	Peak
2.755	45.90	---	48.00	0.40	46.30	-1.70	Peak
2.932	45.60	---	48.00	0.40	46.00	-2.00	Peak
5.592	45.50	---	48.00	0.36	45.86	-2.14	Peak
6.065	45.50	---	48.00	0.40	45.90	-2.10	Peak
12.920	46.40	---	48.00	0.66	47.06	-0.94	Peak
12.979	45.20	---	48.00	0.66	45.86	-2.14	Peak

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

Tested by : C.C.Wu

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:																				
Date of Test Test Engineer	: 09 Feb., 2003 to 13 Feb., 2003 : C.C.Wu																			
For detail measurement results see next pages.																				

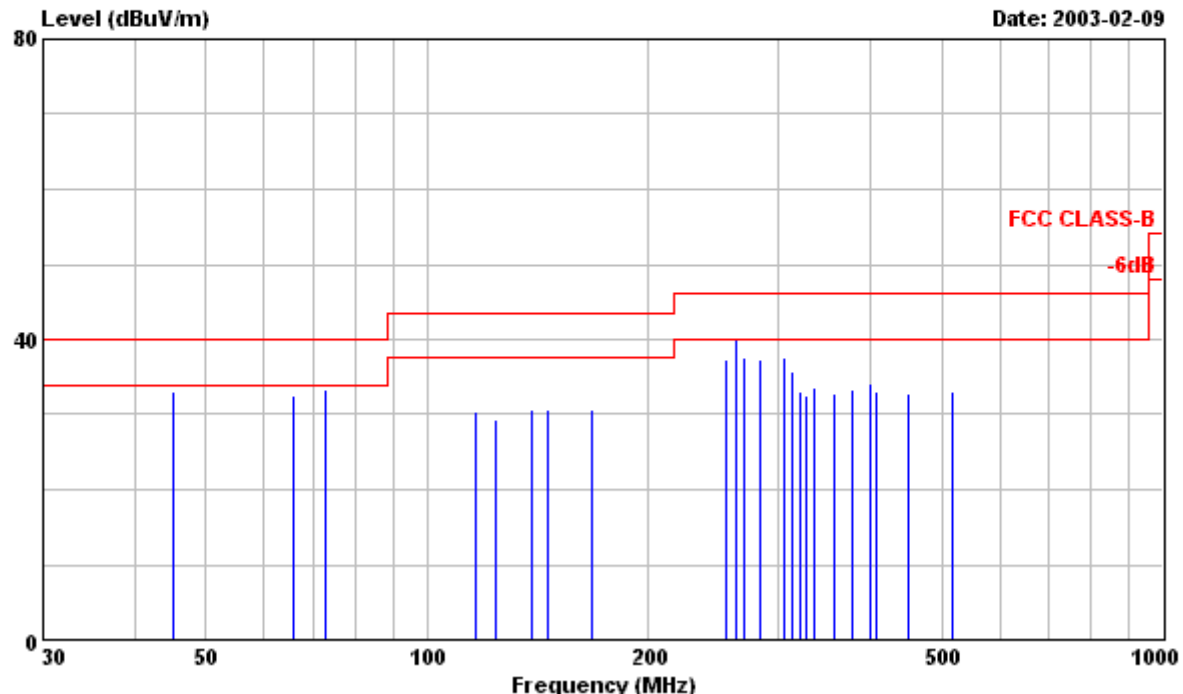


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Data#: 1

File#: C:\Program Files\em3\EMI03-006-R(107T51 CPT).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 14 ARIAL"H"PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

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

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
44.980	21.50	---	40.00	11.50	33.00	-7.00	Peak
65.540	22.70	---	40.00	9.96	32.66	-7.34	Peak
72.810	23.30	---	40.00	10.12	33.42	-6.58	Peak
116.510	18.10	---	43.50	12.23	30.33	-13.17	Peak
123.780	16.90	---	43.50	12.47	29.37	-14.13	Peak
138.340	17.60	---	43.50	13.01	30.61	-12.89	Peak
145.630	17.30	---	43.50	13.27	30.57	-12.93	Peak
167.480	16.80	---	43.50	13.90	30.70	-12.80	Peak
254.840	16.60	---	46.00	20.76	37.36	-8.64	Peak
262.120	18.80	---	46.00	21.17	39.97	-6.03	Peak
269.390	15.90	---	46.00	21.59	37.49	-8.51	Peak

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



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
283.970	14.90	---	46.00	22.37	37.27	-8.73	Peak
305.800	20.90	---	46.00	16.59	37.49	-8.51	Peak
313.090	18.90	---	46.00	16.76	35.66	-10.34	Peak
320.380	16.30	---	46.00	16.90	33.20	-12.80	Peak
327.650	15.50	---	46.00	17.06	32.56	-13.44	Peak
334.930	16.50	---	46.00	17.20	33.70	-12.30	Peak
356.780	15.10	---	46.00	17.63	32.73	-13.27	Peak
378.620	15.30	---	46.00	18.02	33.32	-12.68	Peak
400.480	15.70	---	46.00	18.40	34.10	-11.90	Peak
407.750	14.50	---	46.00	18.50	33.00	-13.00	Peak
451.430	13.70	---	46.00	19.10	32.80	-13.20	Peak
516.950	13.20	---	46.00	19.99	33.19	-12.81	Peak

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

Tested by : C C.Wu

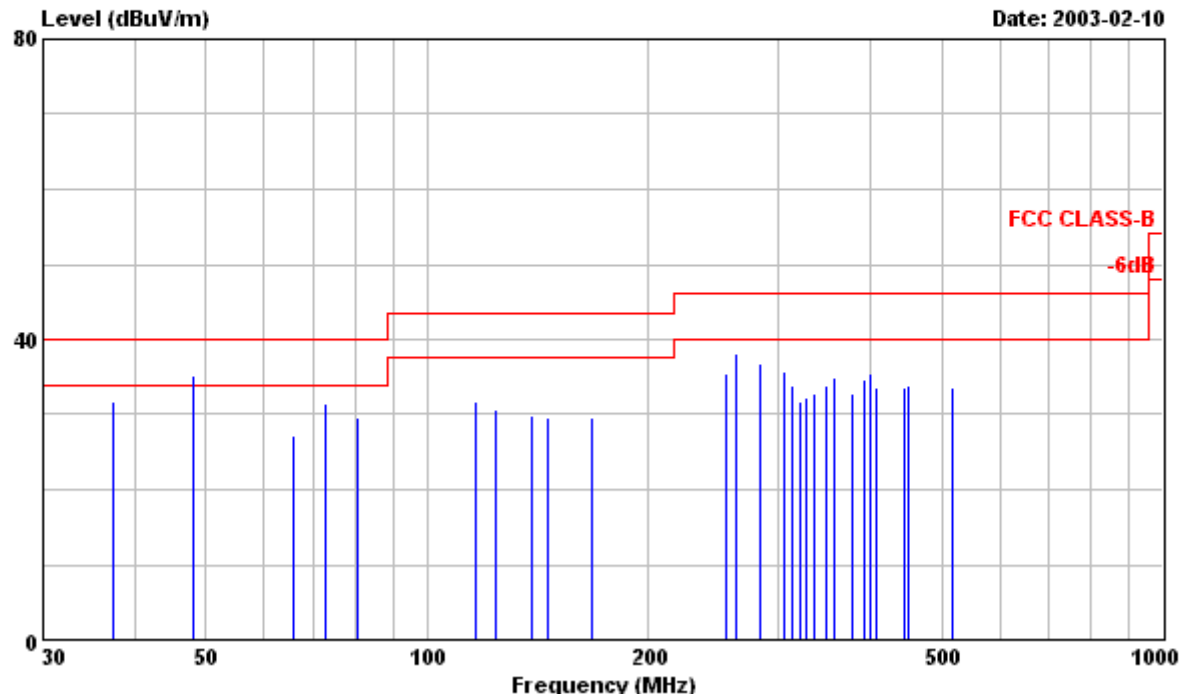


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Data#: 2

File#: C:\Program Files\em3\EMI03-006-R(107T51 CPT).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 14 ARIAL"H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

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

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
37.300	18.80	---	40.00	12.84	31.64	-8.36	Peak
! 47.920	24.10	---	40.00	11.08	35.18	-4.82	Peak
47.920	---	21.98	40.00	11.08	33.06	-6.94	QP
65.540	17.20	---	40.00	9.96	27.16	-12.84	Peak
72.810	21.40	---	40.00	10.12	31.52	-8.48	Peak
80.080	19.10	---	40.00	10.40	29.50	-10.50	Peak
116.510	19.60	---	43.50	12.23	31.83	-11.67	Peak
123.780	18.10	---	43.50	12.47	30.57	-12.93	Peak
138.340	16.90	---	43.50	13.01	29.91	-13.59	Peak
145.630	16.40	---	43.50	13.27	29.67	-13.83	Peak
167.480	15.80	---	43.50	13.90	29.70	-13.80	Peak

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



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
254.840	14.60	---	46.00	20.76	35.36	-10.64	Peak
262.120	16.91	---	46.00	21.17	38.08	-7.92	Peak
283.970	14.30	---	46.00	22.37	36.67	-9.33	Peak
305.800	19.20	---	46.00	16.59	35.79	-10.21	Peak
313.090	17.20	---	46.00	16.76	33.96	-12.04	Peak
320.380	14.80	---	46.00	16.90	31.70	-14.30	Peak
327.650	15.30	---	46.00	17.06	32.36	-13.64	Peak
334.930	15.70	---	46.00	17.20	32.90	-13.10	Peak
349.510	16.50	---	46.00	17.49	33.99	-12.01	Peak
356.780	17.20	---	46.00	17.63	34.83	-11.17	Peak
378.620	14.80	---	46.00	18.02	32.82	-13.18	Peak
393.180	16.40	---	46.00	18.28	34.68	-11.32	Peak
400.460	17.00	---	46.00	18.40	35.40	-10.60	Peak
407.750	15.20	---	46.00	18.50	33.70	-12.30	Peak
444.160	14.50	---	46.00	19.02	33.52	-12.48	Peak
451.430	14.80	---	46.00	19.10	33.90	-12.10	Peak
516.950	13.60	---	46.00	19.99	33.59	-12.41	Peak

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

Tested by : C C.Wu

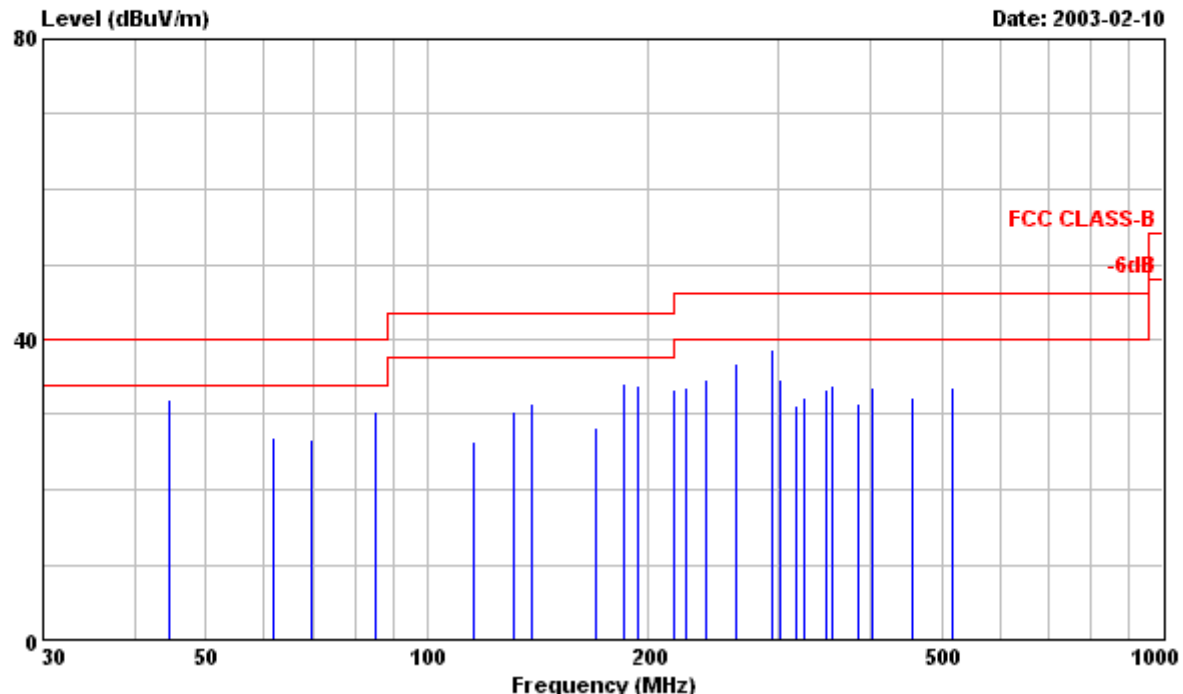


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Data#: 3

File#: C:\Program Files\em3\EMI03-006-R(107T51 CPT).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 16 ARIAL"H"PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

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

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
44.540	20.50	---	40.00	11.55	32.05	-7.95	Peak
61.830	17.10	---	40.00	9.92	27.02	-12.98	Peak
69.530	16.70	---	40.00	10.00	26.70	-13.30	Peak
84.980	19.70	---	40.00	10.66	30.36	-9.64	Peak
115.900	14.20	---	43.50	12.19	26.39	-17.11	Peak
131.350	17.60	---	43.50	12.74	30.34	-13.16	Peak
139.050	18.40	---	43.50	13.03	31.43	-12.07	Peak
169.960	14.20	---	43.50	13.97	28.17	-15.33	Peak
185.410	19.30	---	43.50	14.91	34.21	-9.29	Peak
193.140	18.20	---	43.50	15.67	33.87	-9.63	Peak
216.320	15.50	---	46.00	17.74	33.24	-12.76	Peak

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



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
224.050	15.30	---	46.00	18.40	33.70	-12.30	Peak
239.490	15.10	---	46.00	19.65	34.75	-11.25	Peak
262.680	15.50	---	46.00	21.23	36.73	-9.27	Peak
293.570	15.80	---	46.00	22.84	38.64	-7.36	Peak
301.290	18.10	---	46.00	16.50	34.60	-11.40	Peak
316.740	14.40	---	46.00	16.83	31.23	-14.77	Peak
324.460	15.20	---	46.00	16.99	32.19	-13.81	Peak
347.650	16.00	---	46.00	17.46	33.46	-12.54	Peak
355.370	16.20	---	46.00	17.60	33.80	-12.20	Peak
386.270	13.30	---	46.00	18.17	31.47	-14.53	Peak
401.730	15.20	---	46.00	18.42	33.62	-12.38	Peak
455.780	13.20	---	46.00	19.16	32.36	-13.64	Peak
517.590	13.70	---	46.00	19.99	33.69	-12.31	Peak

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

Tested by : C C.Wu

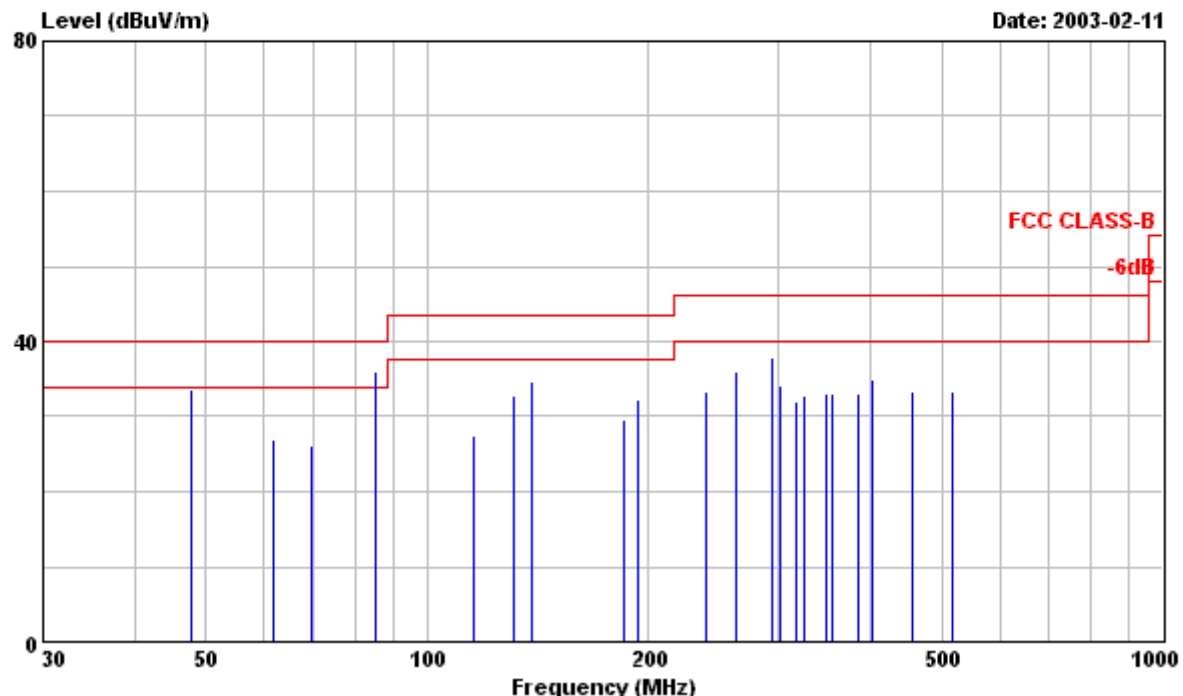


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Data#: 4

File#: C:\Program Files\em3\EMI03-006-R(107T51 CPT).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 107T51 Serial No:TY0212776
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL CPT CRT,RUN IBM V1.8
: FONT 16 ARIAL"H"PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
47.740		22.60	---	40.00	11.13	33.73	-6.27	Peak
61.830		17.10	---	40.00	9.92	27.02	-12.98	Peak
69.530		16.20	---	40.00	10.00	26.20	-13.80	Peak
! 84.980		25.40	---	40.00	10.66	36.06	-3.94	Peak
! 84.980		---	23.80	40.00	10.66	34.46	-5.54	QP
115.900		15.30	---	43.50	12.19	27.49	-16.01	Peak
131.340		20.00	---	43.50	12.74	32.74	-10.76	Peak
139.050		21.59	---	43.50	13.03	34.62	-8.88	Peak
185.410		14.80	---	43.50	14.91	29.71	-13.79	Peak
193.140		16.60	---	43.50	15.67	32.27	-11.23	Peak
239.490		13.60	---	46.00	19.65	33.25	-12.75	Peak

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



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
262.680	14.70	---	46.00	21.23	35.93	-10.07	Peak
293.570	15.00	---	46.00	22.84	37.84	-8.16	Peak
301.290	17.90	---	46.00	16.50	34.40	-11.60	Peak
316.740	15.20	---	46.00	16.83	32.03	-13.97	Peak
324.460	15.90	---	46.00	16.99	32.89	-13.11	Peak
347.650	15.50	---	46.00	17.46	32.96	-13.04	Peak
355.370	15.50	---	46.00	17.60	33.10	-12.90	Peak
386.270	14.90	---	46.00	18.17	33.07	-12.93	Peak
401.730	16.50	---	46.00	18.42	34.92	-11.08	Peak
455.780	14.10	---	46.00	19.16	33.26	-12.74	Peak
517.590	13.40	---	46.00	19.99	33.39	-12.61	Peak

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

Tested by : C C.Wu

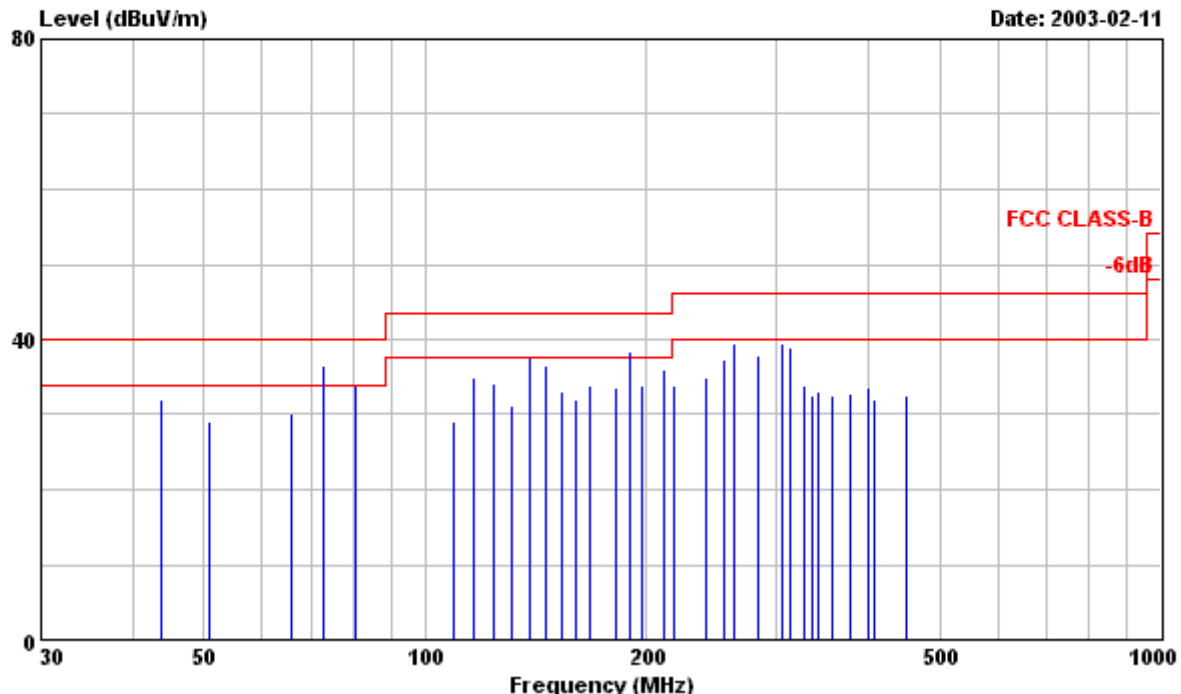


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Data#: 1

File#: C:\Program Files\em3\EMI03-007-R(107T51 LG).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL"H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

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

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
43.690	20.40	---	40.00	11.66	32.06	-7.94	Peak
50.970	18.40	---	40.00	10.71	29.11	-10.89	Peak
65.530	20.10	---	40.00	9.96	30.06	-9.94	Peak
! 72.810	---	24.95	40.00	10.12	35.07	-4.93	QP
! 72.810	26.30	---	40.00	10.12	36.42	-3.58	Peak
80.090	23.50	---	40.00	10.40	33.90	-6.10	Peak
109.230	17.10	---	43.50	11.89	28.99	-14.51	Peak
116.500	22.60	---	43.50	12.23	34.83	-8.67	Peak
123.790	21.90	---	43.50	12.47	34.37	-9.13	Peak
131.060	18.50	---	43.50	12.73	31.23	-12.27	Peak
138.340	---	23.85	43.50	13.01	36.86	-6.64	QP

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



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
! 138.340	24.50	---	43.50	13.01	37.51	-5.99	Peak
145.630	23.20	---	43.50	13.27	36.47	-7.03	Peak
152.900	19.60	---	43.50	13.49	33.09	-10.41	Peak
160.170	18.20	---	43.50	13.71	31.91	-11.59	Peak
167.470	19.90	---	43.50	13.90	33.80	-9.70	Peak
182.020	19.00	---	43.50	14.59	33.59	-9.91	Peak
! 189.300	23.00	---	43.50	15.29	38.29	-5.21	Peak
189.300	---	21.80	43.50	15.29	37.09	-6.41	QP
196.600	---	17.90	43.50	15.98	33.88	-9.62	QP
211.150	18.60	---	43.50	17.28	35.88	-7.62	Peak
218.430	16.00	---	46.00	17.94	33.94	-12.06	Peak
240.280	15.30	---	46.00	19.71	35.01	-10.99	Peak
254.830	16.70	---	46.00	20.76	37.46	-8.54	Peak
262.120	18.21	---	46.00	21.17	39.38	-6.62	Peak
283.960	15.40	---	46.00	22.37	37.77	-8.23	Peak
305.800	23.00	---	46.00	16.59	39.59	-6.41	Peak
313.080	22.30	---	46.00	16.76	39.06	-6.94	Peak
327.650	16.70	---	46.00	17.06	33.76	-12.24	Peak
334.930	15.20	---	46.00	17.20	32.40	-13.60	Peak
342.210	15.60	---	46.00	17.34	32.94	-13.06	Peak
356.780	15.00	---	46.00	17.63	32.63	-13.37	Peak
378.620	14.70	---	46.00	18.02	32.72	-13.28	Peak
400.470	15.30	---	46.00	18.40	33.70	-12.30	Peak
407.750	13.60	---	46.00	18.50	32.10	-13.90	Peak
451.430	13.50	---	46.00	19.10	32.60	-13.40	Peak

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

Tested by : C C.Wu

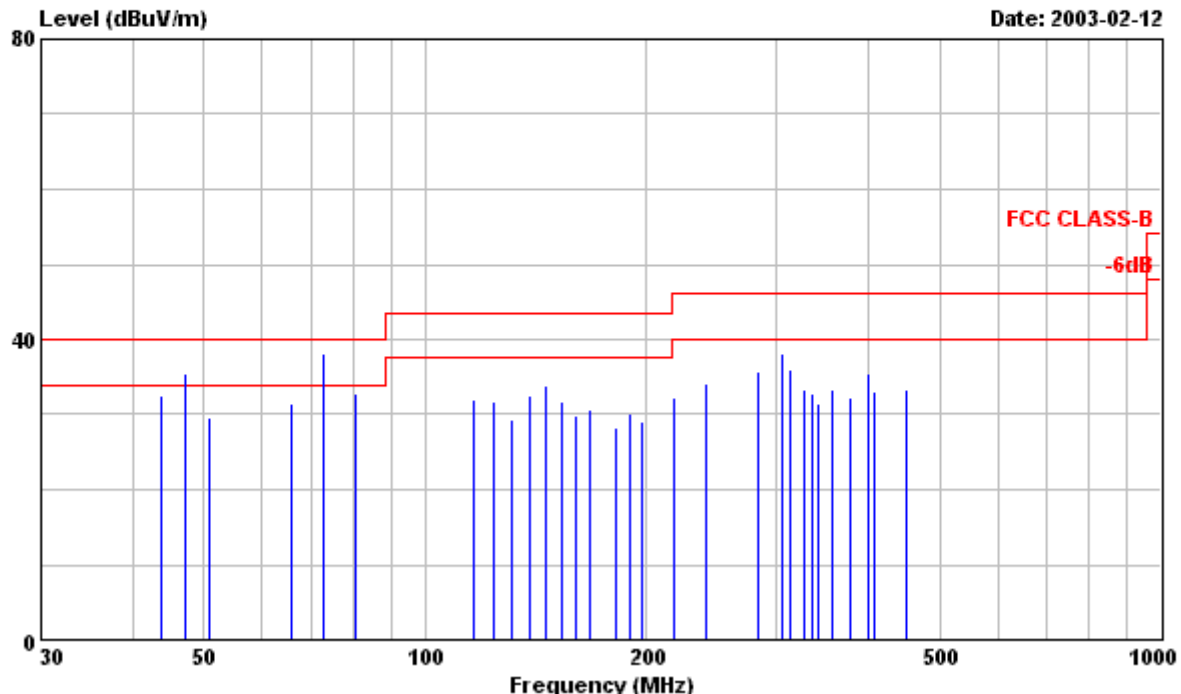


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Data#: 2

File#: C:\Program Files\em3\EMI03-007-R(107T51 LG).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL"H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

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

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
43.690	20.90	---	40.00	11.66	32.56	-7.44	Peak
! 47.180	24.20	---	40.00	11.20	35.40	-4.60	Peak
47.180	---	22.40	40.00	11.20	33.60	-6.40	QP
50.970	18.80	---	40.00	10.71	29.51	-10.49	Peak
65.530	21.40	---	40.00	9.96	31.36	-8.64	Peak
! 72.810	---	28.10	40.00	10.12	38.22	-1.78	QP
! 72.810	---	26.70	40.00	10.12	36.82	-3.18	QP
80.090	22.50	---	40.00	10.40	32.90	-7.10	Peak
116.500	19.80	---	43.50	12.23	32.03	-11.47	Peak
123.790	19.20	---	43.50	12.47	31.67	-11.83	Peak
131.060	16.50	---	43.50	12.73	29.23	-14.27	Peak

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



PHILIPS

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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
138.340	19.60	---	43.50	13.01	32.61	-10.89	Peak
145.630	20.70	---	43.50	13.27	33.97	-9.53	Peak
152.900	18.30	---	43.50	13.49	31.79	-11.71	Peak
160.170	16.10	---	43.50	13.71	29.81	-13.69	Peak
167.470	16.80	---	43.50	13.90	30.70	-12.80	Peak
182.020	13.70	---	43.50	14.59	28.29	-15.21	Peak
189.300	14.80	---	43.50	15.29	30.09	-13.41	Peak
196.600	13.20	---	43.50	15.98	29.18	-14.32	Peak
218.430	14.20	---	46.00	17.94	32.14	-13.86	Peak
240.280	14.70	---	46.00	19.71	34.41	-11.59	Peak
283.960	13.40	---	46.00	22.37	35.77	-10.23	Peak
305.800	21.60	---	46.00	16.59	38.19	-7.81	Peak
313.080	19.20	---	46.00	16.76	35.96	-10.04	Peak
327.650	16.40	---	46.00	17.06	33.46	-12.54	Peak
334.930	15.50	---	46.00	17.20	32.70	-13.30	Peak
342.210	14.20	---	46.00	17.34	31.54	-14.46	Peak
356.780	15.70	---	46.00	17.63	33.33	-12.67	Peak
378.620	14.30	---	46.00	18.02	32.32	-13.68	Peak
400.470	17.20	---	46.00	18.40	35.60	-10.40	Peak
407.750	14.50	---	46.00	18.50	33.00	-13.00	Peak
451.430	14.10	---	46.00	19.10	33.20	-12.80	Peak

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

Tested by : C C.Wu

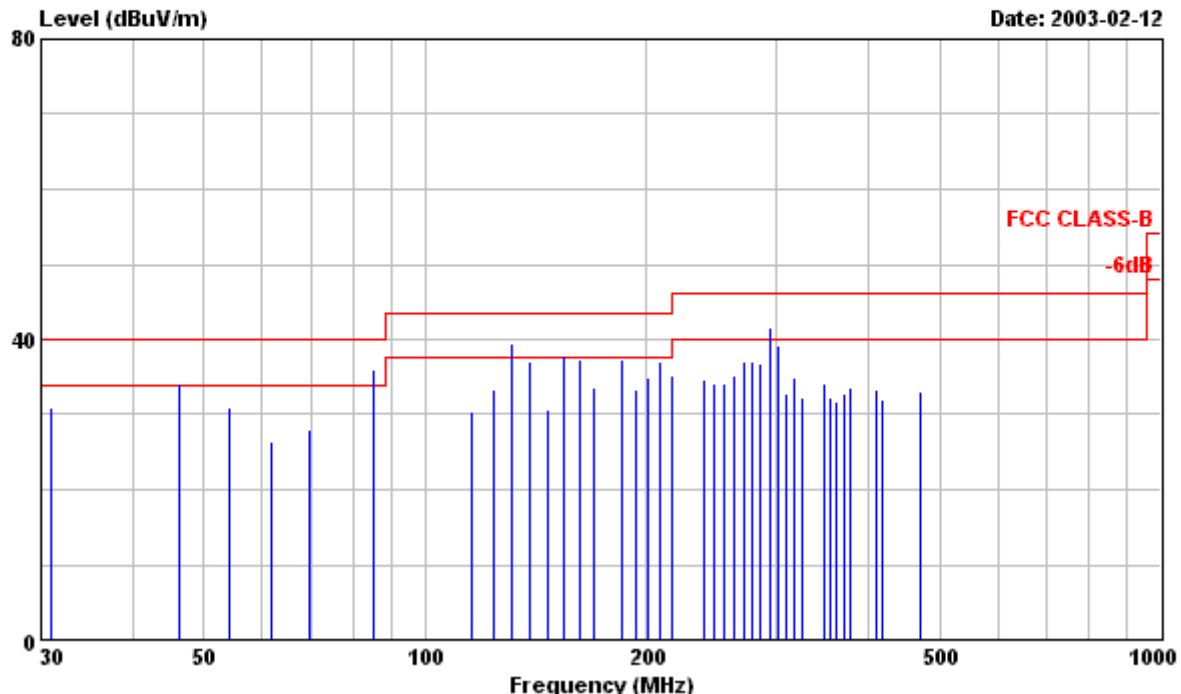


PHILIPS

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Data#: 3

File#: C:\Program Files\es\EMI03-007-R(107T51 LG).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL"H"PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
30.910		16.40	---	40.00	14.53	30.93	-9.07	Peak
! 46.350		23.10	---	40.00	11.31	34.41	-5.59	Peak
46.350		---	21.40	40.00	11.31	32.71	-7.29	QP
54.090		20.60	---	40.00	10.42	31.02	-8.98	Peak
61.820		16.60	---	40.00	9.92	26.52	-13.48	Peak
69.540		18.10	---	40.00	10.00	28.10	-11.90	Peak
! 84.980		25.40	---	40.00	10.66	36.06	-3.94	Peak
! 84.980		---	24.32	40.00	10.66	34.98	-5.02	QP
115.890		18.10	---	43.50	12.19	30.29	-13.21	Peak
123.610		20.80	---	43.50	12.47	33.27	-10.23	Peak
! 131.340		26.61	---	43.50	12.74	39.35	-4.15	Peak

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



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
! 131.340	---	24.91	43.50	12.74	37.65	-5.85	QP
139.060	24.09	---	43.50	13.03	37.12	-6.38	Peak
146.780	17.29	---	43.50	13.31	30.60	-12.90	Peak
154.510	---	22.90	43.50	13.54	36.44	-7.06	QP
! 154.510	24.40	---	43.50	13.54	37.94	-5.56	Peak
162.240	23.50	---	43.50	13.76	37.26	-6.24	Peak
169.970	19.60	---	43.50	13.97	33.57	-9.93	Peak
185.430	22.30	---	43.50	14.91	37.21	-6.29	Peak
193.150	17.80	---	43.50	15.67	33.47	-10.03	Peak
200.870	18.70	---	43.50	16.37	35.07	-8.43	Peak
208.590	20.00	---	43.50	17.09	37.09	-6.41	Peak
216.320	17.50	---	46.00	17.74	35.24	-10.76	Peak
239.500	15.00	---	46.00	19.65	34.65	-11.35	Peak
247.230	14.20	---	46.00	20.24	34.44	-11.56	Peak
254.950	13.50	---	46.00	20.76	34.26	-11.74	Peak
262.670	14.10	---	46.00	21.23	35.33	-10.67	Peak
270.390	15.30	---	46.00	21.64	36.94	-9.06	Peak
278.120	14.90	---	46.00	22.06	36.96	-9.04	Peak
285.850	14.40	---	46.00	22.47	36.87	-9.13	Peak
! 293.570	---	17.49	46.00	22.84	40.33	-5.67	QP
! 293.570	18.70	---	46.00	22.84	41.54	-4.46	Peak
301.280	22.60	---	46.00	16.50	39.10	-6.90	Peak
309.020	16.10	---	46.00	16.66	32.76	-13.24	Peak
316.740	18.20	---	46.00	16.83	35.03	-10.97	Peak
324.470	15.30	---	46.00	16.99	32.29	-13.71	Peak
347.640	16.80	---	46.00	17.46	34.26	-11.74	Peak
355.370	14.60	---	46.00	17.60	32.20	-13.80	Peak
363.090	13.90	---	46.00	17.74	31.64	-14.36	Peak
370.820	15.00	---	46.00	17.88	32.88	-13.12	Peak
378.550	15.70	---	46.00	18.02	33.72	-12.28	Peak
409.450	14.80	---	46.00	18.52	33.32	-12.68	Peak
417.140	13.40	---	46.00	18.65	32.05	-13.95	Peak
471.250	13.70	---	46.00	19.35	33.05	-12.95	Peak

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

Tested by : C C.Wu

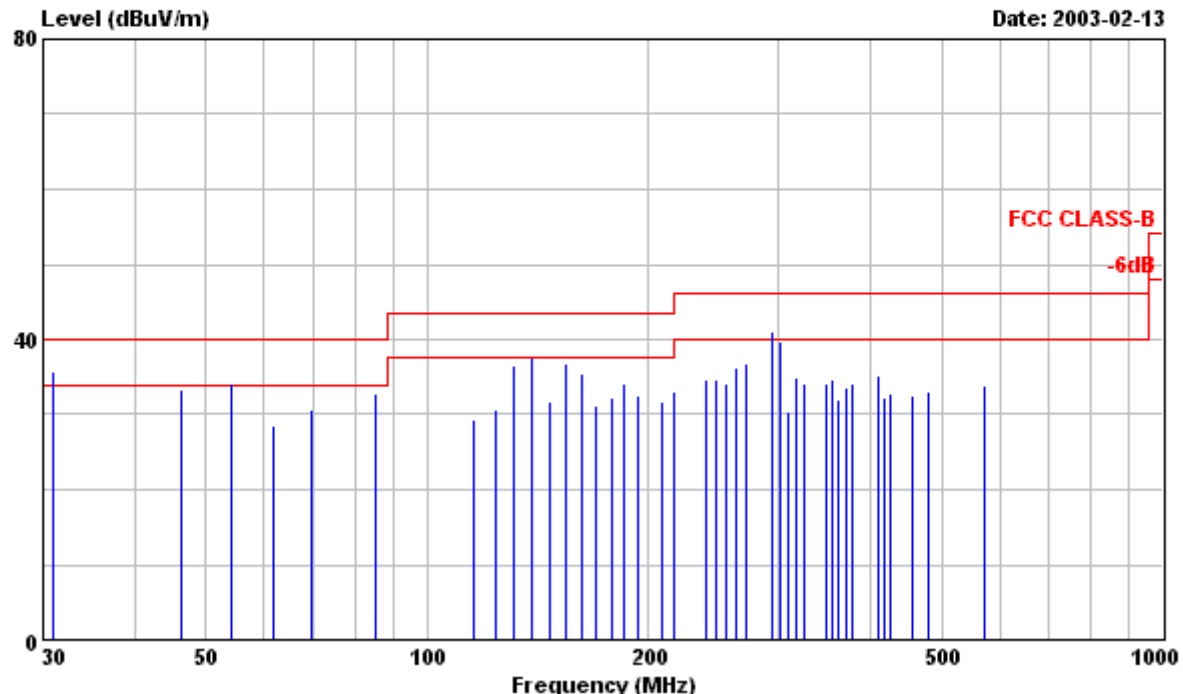


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Data#: 4

File#: C:\Program Files\es\EMI03-007-R(107T51 LG).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 107T51 Serial No:TY0212761
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 3RD MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL"H" PATTERN.
: 3. 1280x1024/60Hz 64KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD WAS
: TESTED.

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
VERTICAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
! 30.910	21.10	---	40.00	14.53	35.63	-4.37	Peak
! 30.910	---	19.47	40.00	14.53	34.00	-6.00	QP
46.350	21.90	---	40.00	11.31	33.21	-6.79	Peak
54.090	---	22.20	40.00	10.42	32.62	-7.38	QP
! 54.090	24.10	---	40.00	10.42	34.52	-5.48	Peak
61.820	18.70	---	40.00	9.92	28.62	-11.38	Peak
69.540	20.60	---	40.00	10.00	30.60	-9.40	Peak
84.980	22.20	---	40.00	10.66	32.86	-7.14	Peak
115.890	17.20	---	43.50	12.19	29.39	-14.11	Peak
123.610	18.10	---	43.50	12.47	30.57	-12.93	Peak
131.340	23.80	---	43.50	12.74	36.54	-6.96	Peak

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



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL		
					dBuV/m	dBuV/m	
139.060	---	23.20	43.50	13.03	36.23	-7.27	QP
! 139.060	24.50	---	43.50	13.03	37.53	-5.97	Peak
146.780	18.50	---	43.50	13.31	31.81	-11.69	Peak
154.510	23.20	---	43.50	13.54	36.74	-6.76	Peak
162.240	21.59	---	43.50	13.76	35.35	-8.15	Peak
169.970	17.30	---	43.50	13.97	31.27	-12.23	Peak
177.690	17.90	---	43.50	14.25	32.15	-11.35	Peak
185.420	19.60	---	43.50	14.91	34.51	-8.99	Peak
193.150	16.80	---	43.50	15.67	32.47	-11.03	Peak
208.590	14.60	---	43.50	17.09	31.69	-11.81	Peak
216.320	15.20	---	46.00	17.74	32.94	-13.06	Peak
239.500	15.10	---	46.00	19.65	34.75	-11.25	Peak
247.230	14.30	---	46.00	20.24	34.54	-11.46	Peak
254.950	13.60	---	46.00	20.76	34.36	-11.64	Peak
262.670	15.00	---	46.00	21.23	36.23	-9.77	Peak
270.390	15.10	---	46.00	21.64	36.74	-9.26	Peak
! 293.570	18.30	---	46.00	22.84	41.14	-4.86	Peak
293.570	---	16.82	46.00	22.84	39.66	-6.34	QP
301.280	23.10	---	46.00	16.50	39.60	-6.40	Peak
309.020	13.80	---	46.00	16.66	30.46	-15.54	Peak
316.740	18.10	---	46.00	16.83	34.93	-11.07	Peak
324.470	17.20	---	46.00	16.99	34.19	-11.81	Peak
347.640	16.90	---	46.00	17.46	34.36	-11.64	Peak
355.370	17.10	---	46.00	17.60	34.70	-11.30	Peak
363.090	14.20	---	46.00	17.74	31.94	-14.06	Peak
370.820	15.80	---	46.00	17.88	33.68	-12.32	Peak
378.550	16.40	---	46.00	18.02	34.42	-11.58	Peak
409.450	16.80	---	46.00	18.52	35.32	-10.68	Peak
417.140	13.60	---	46.00	18.65	32.25	-13.75	Peak
424.890	14.00	---	46.00	18.75	32.75	-13.25	Peak
455.810	13.30	---	46.00	19.16	32.46	-13.54	Peak
478.970	13.50	---	46.00	19.45	32.95	-13.05	Peak
571.670	13.09	---	46.00	20.83	33.92	-12.08	Peak

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

Tested by : C C.Wu