



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.: TYR87-2042 Date : 11 March, 2003 Page : Page 1 of 32		
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. : A3KM114 Model Name : 6739-60N Serial Number : TY0302101 Description : 19" XGA color monitor, Max. resolution 1600x1200/75Hz				
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 : 21 Feb. 2003 Date of performance of test : 22 Feb., 2003 to 24 Feb., 2003				
<table border="0"><tr><td style="text-align: center;"> C.C. Wu - EMC Test Engineer</td><td style="text-align: center;"> Ronnie Yang - EMC Manager NVLAP Signatory</td></tr></table>			 C.C. Wu - EMC Test Engineer	 Ronnie Yang - EMC Manager NVLAP Signatory
 C.C. Wu - EMC Test Engineer	 Ronnie Yang - EMC Manager NVLAP Signatory			

Philips Electronics Industries (Taiwan) Ltd

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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, 19" color monitor :

Model No. : 6739-60N
 FCC ID : A3KM114
 Brand : IBM

The color monitor automatically scans horizontal frequencies between 30KHz and 96KHz , 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 1600x1200 pixels.

The monitor has 10 factory-preset modes as indicated in the following table:

Item	Resolution	Hor (kHz)	Ver (Hz)	H-pol	V-pol
1	720x400	31.469	70.087	-	+
2	640 x 480	31.469	59.940	-	-
3	640 x 480	43.269	85.008	-	-
4	800 x 600	46.875	75.000	+	+
5	800 x 600	53.674	85.061	+	+
6	1024 x 768	60.023	75.029	+	+
7	1024 x 768	68.677	84.997	+	+
8	1280 x 1024	79.976	75.024	+	+
9	1280 x 1024	91.146	85.024	+	+
10	1600 x 1200	93.750	75.000	+	+

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

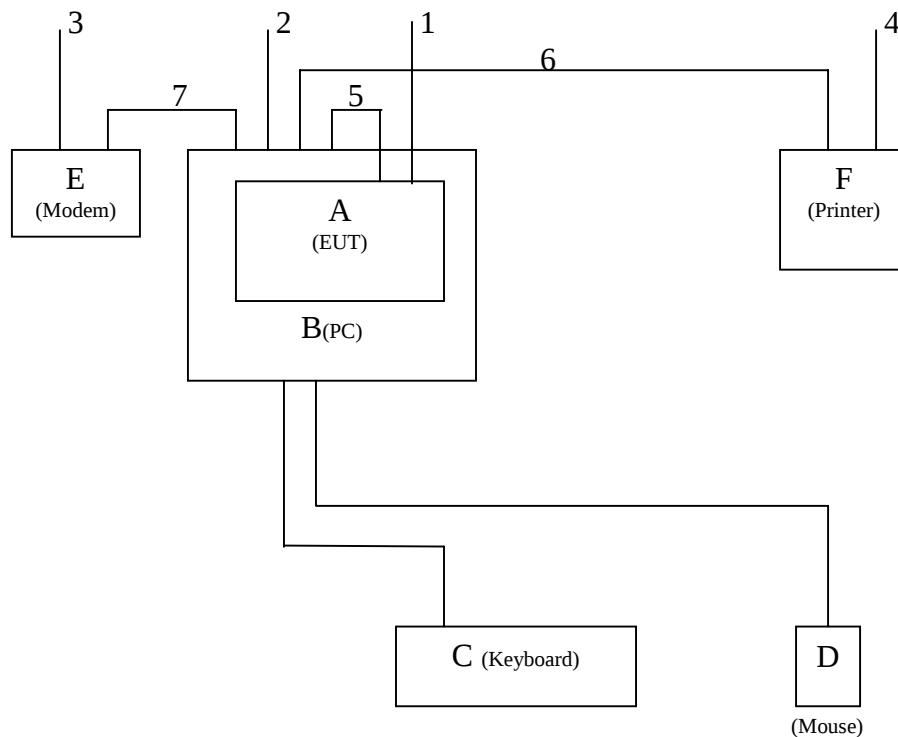
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “6739-60N” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	IBM 6739-60N	TY0302101	A3KM114	EUT
B	PC	IBM 8305/52V	99BLVWC	FCC Logo	
C	Keyboard	SK-8820	03923795	FCC Logo	
D	Mouse	MU29J	23-102280	FCC Logo	
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
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Internet: ronnie.yang@philips.com

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

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

First, pre-scan all modes in screen room then select **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	EMI03-009-C	1600x1200	93.8KHz/75Hz	D-sub
		1280x1024	91.1KHz/85Hz	D-sub
Radiated	EMI03-009-R	1600x1200	93.8KHz/75Hz	D-sub
		1280x1024	91.1KHz/85Hz	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

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	: 22 Feb., 2003 to 24 Feb., 2003
Test Engineer	: C.C.Wu

For detail measurement results see next pages.

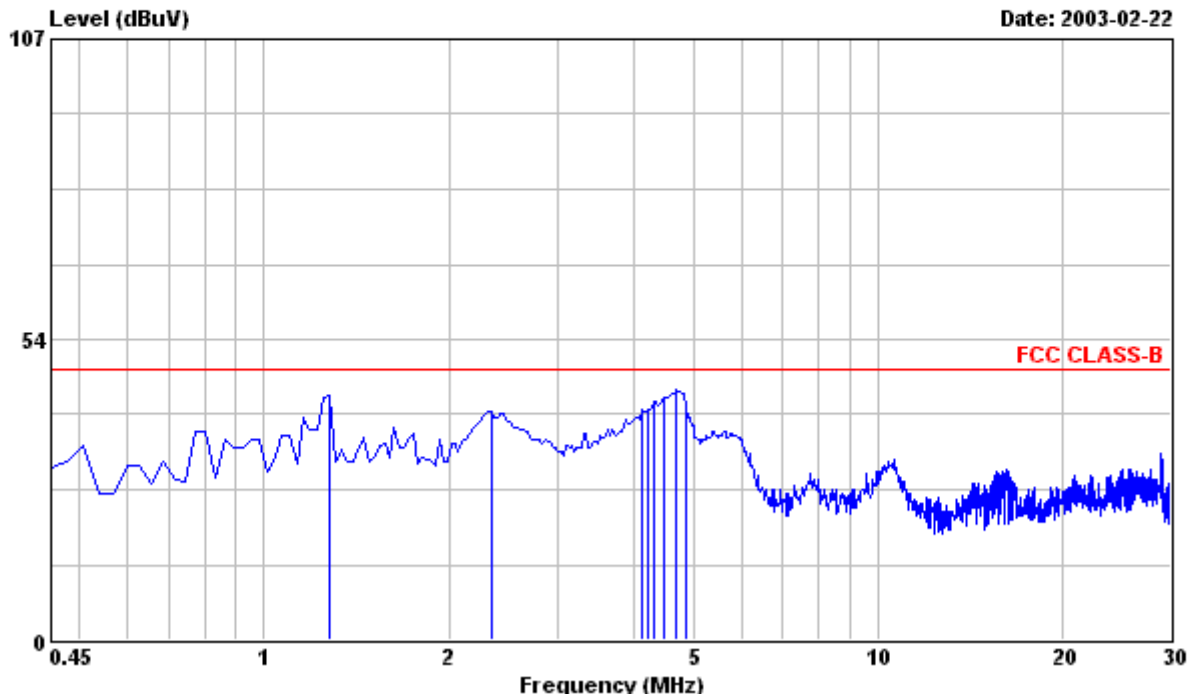


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Data#: 1

File#: C:\Program Files\es\EMI03-009-C(IBM 6739-60N).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : IBM 6739-60N Serial No:TY0302101
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 16 ARIAL "H" PATTERN.
: 3. 1600x1200/75Hz 93.8KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
1.277	43.10	---	48.00	0.40	43.50	-4.50	Peak
2.341	40.40	---	48.00	0.40	40.80	-7.20	Peak
4.114	40.50	---	48.00	0.39	40.89	-7.11	Peak
4.232	40.61	---	48.00	0.37	40.98	-7.02	Peak
4.321	42.11	---	48.00	0.36	42.47	-5.53	Peak
4.498	42.80	---	48.00	0.35	43.15	-4.85	Peak
4.705	44.30	---	48.00	0.33	44.63	-3.37	Peak
4.883	41.40	---	48.00	0.31	41.71	-6.29	Peak

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

Tested by : C.C.Wu

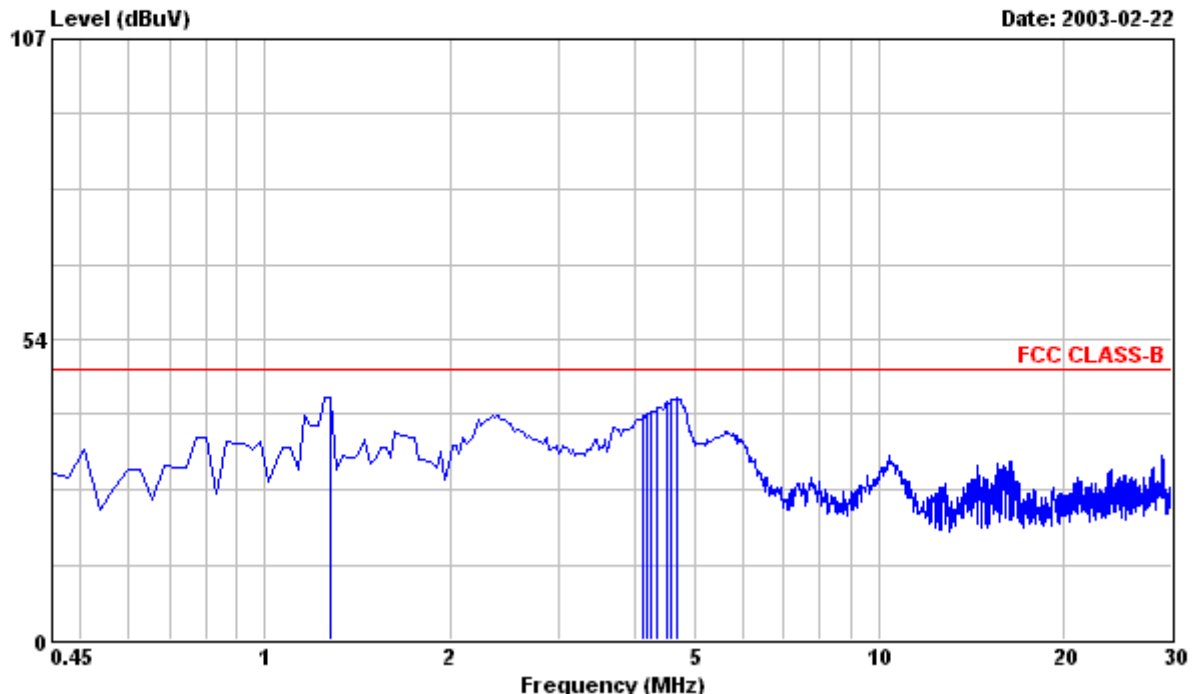


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Data#: 2

File#: C:\Program Files\em3\EMI03-009-C(IBM 6739-60N).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : IBM 6739-60N Serial No:TY0302101
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 16 ARIAL "H" PATTERN.
: 3. 1600x1200/75Hz 93.8KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD WAS
: TESTED.

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

1.277	42.80	---	48.00	0.40	43.20	-4.80	Peak
4.114	39.70	---	48.00	0.39	40.09	-7.91	Peak
4.203	39.90	---	48.00	0.38	40.28	-7.72	Peak
4.262	40.20	---	48.00	0.37	40.57	-7.43	Peak
4.351	40.90	---	48.00	0.36	41.26	-6.74	Peak
4.528	42.01	---	48.00	0.34	42.35	-5.65	Peak
4.587	42.50	---	48.00	0.34	42.84	-5.16	Peak
4.705	43.00	---	48.00	0.33	43.33	-4.67	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

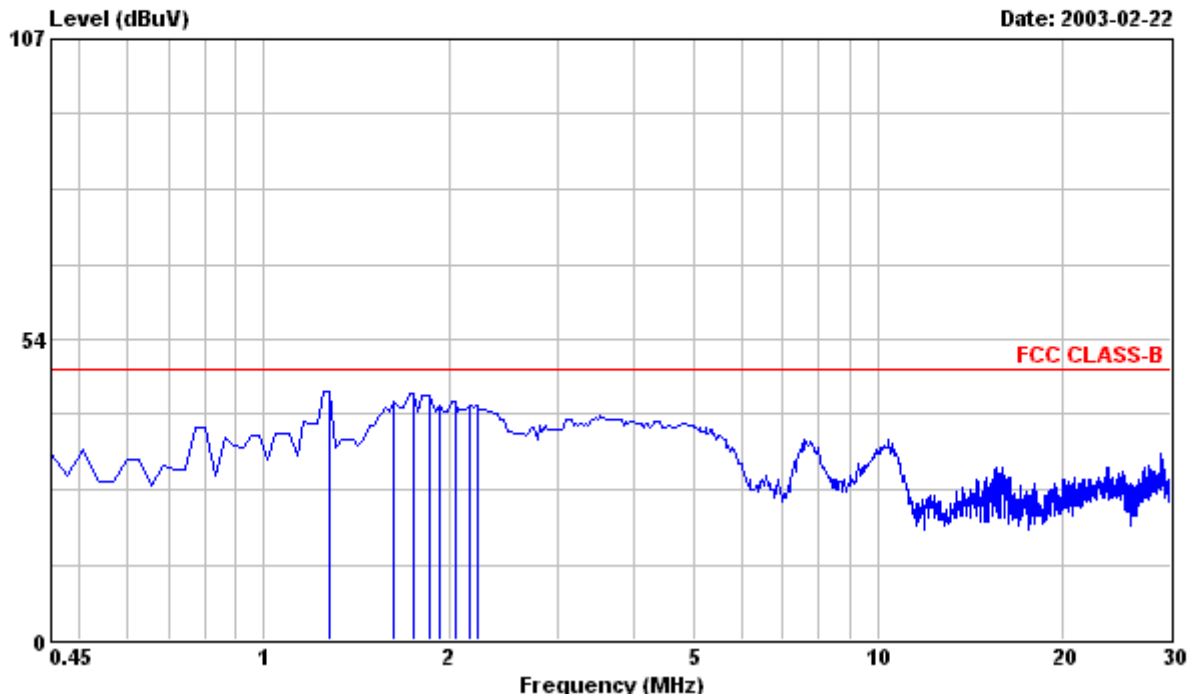


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Data#: 3

File#: C:\Program Files\em3\EMI03-009-C(IBM 6739-60N).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : IBM 6739-60N Serial No:TY0302101
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 16 ARIAL "H" PATTERN.
: 3. 1600x1200/75Hz 93.8KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
1.277	44.00	---	48.00	0.40	44.40	-3.60	Peak
1.632	42.10	---	48.00	0.40	42.50	-5.50	Peak
1.750	43.30	---	48.00	0.40	43.70	-4.30	Peak
1.868	43.10	---	48.00	0.40	43.50	-4.50	Peak
1.928	41.40	---	48.00	0.40	41.80	-6.20	Peak
2.046	42.00	---	48.00	0.40	42.40	-5.60	Peak
2.164	41.20	---	48.00	0.40	41.60	-6.40	Peak
2.223	41.20	---	48.00	0.40	41.60	-6.40	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

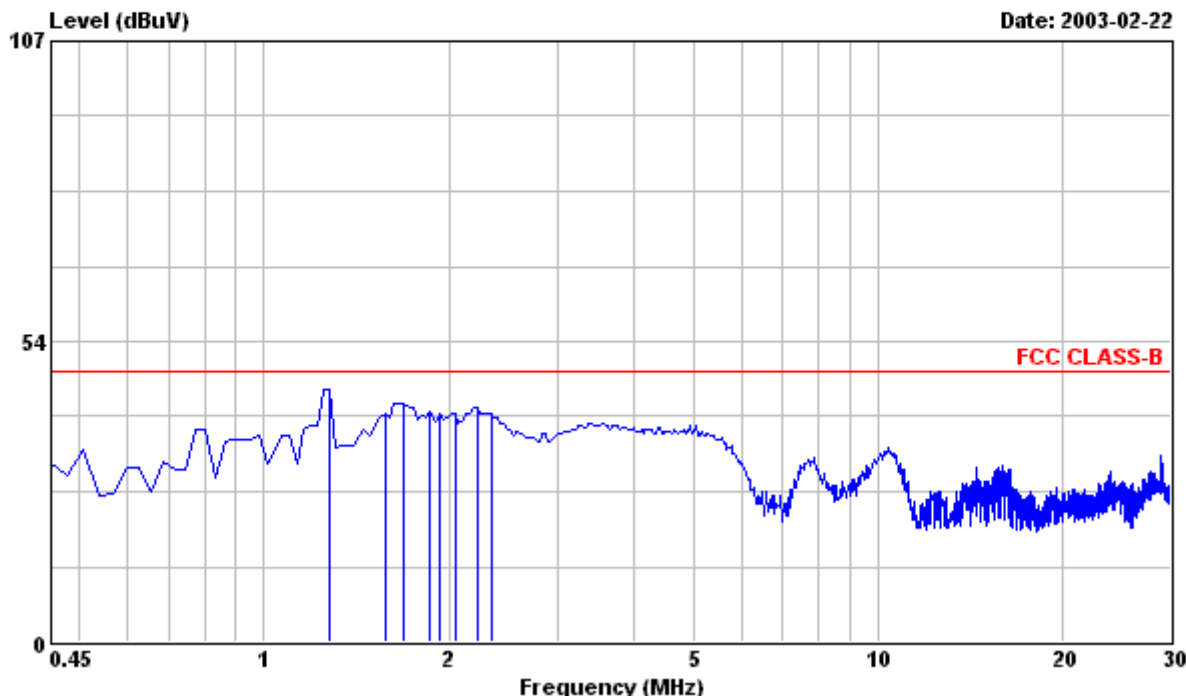


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Data#: 4

File#: C:\Program Files\em3\EMI03-009-C(IBM 6739-60N).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : IBM 6739-60N Serial No:TY0302101
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 16 ARIAL "H" PATTERN.
: 3. 1600x1200/75Hz 93.8KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD WAS
: TESTED.

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

1.277	44.50	---	48.00	0.40	44.90	-3.10	Peak
1.573	40.30	---	48.00	0.40	40.70	-7.30	Peak
1.691	42.10	---	48.00	0.40	42.50	-5.50	Peak
1.868	40.60	---	48.00	0.40	41.00	-7.00	Peak
1.928	40.10	---	48.00	0.40	40.50	-7.50	Peak
2.046	40.40	---	48.00	0.40	40.80	-7.20	Peak
2.223	41.50	---	48.00	0.40	41.90	-6.10	Peak
2.341	40.40	---	48.00	0.40	40.80	-7.20	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

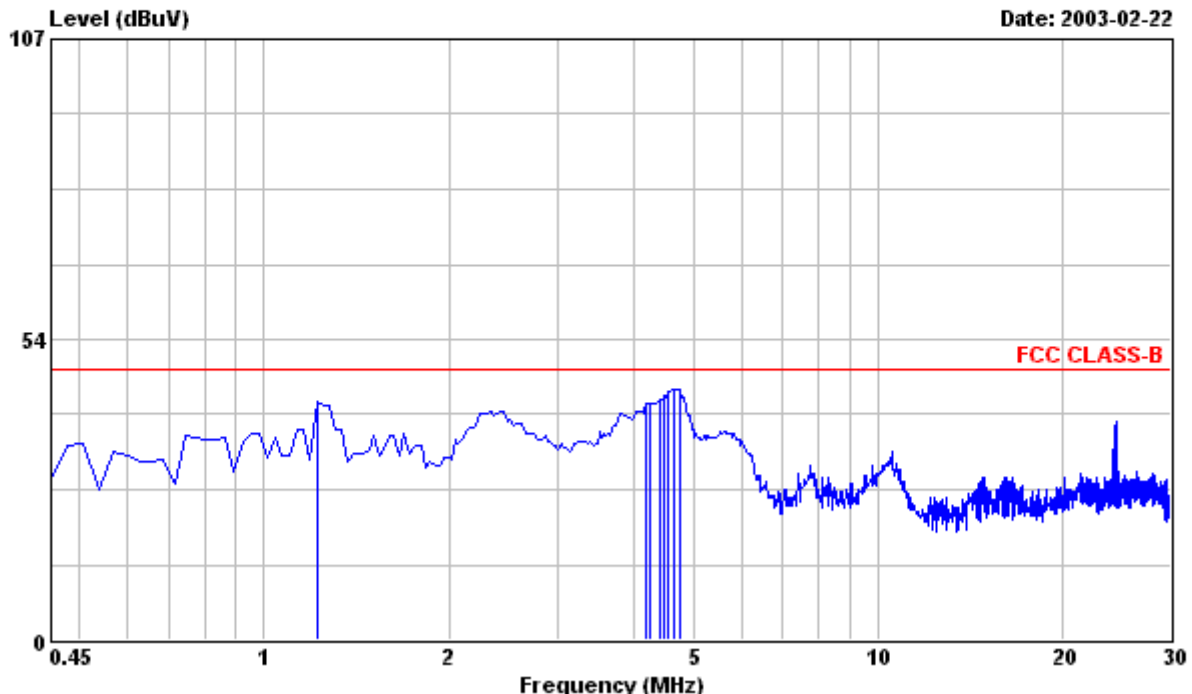


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Data#: 5

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Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : IBM 6739-60N Serial No:TY0302101
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
1.218	42.00	---	48.00	0.40	42.40	-5.60	Peak
4.203	41.60	---	48.00	0.38	41.98	-6.02	Peak
4.262	41.80	---	48.00	0.37	42.17	-5.83	Peak
4.410	42.30	---	48.00	0.36	42.66	-5.34	Peak
4.469	43.10	---	48.00	0.35	43.45	-4.55	Peak
4.557	43.80	---	48.00	0.34	44.14	-3.86	Peak
4.646	44.30	---	48.00	0.33	44.63	-3.37	Peak
4.764	44.40	---	48.00	0.32	44.72	-3.28	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

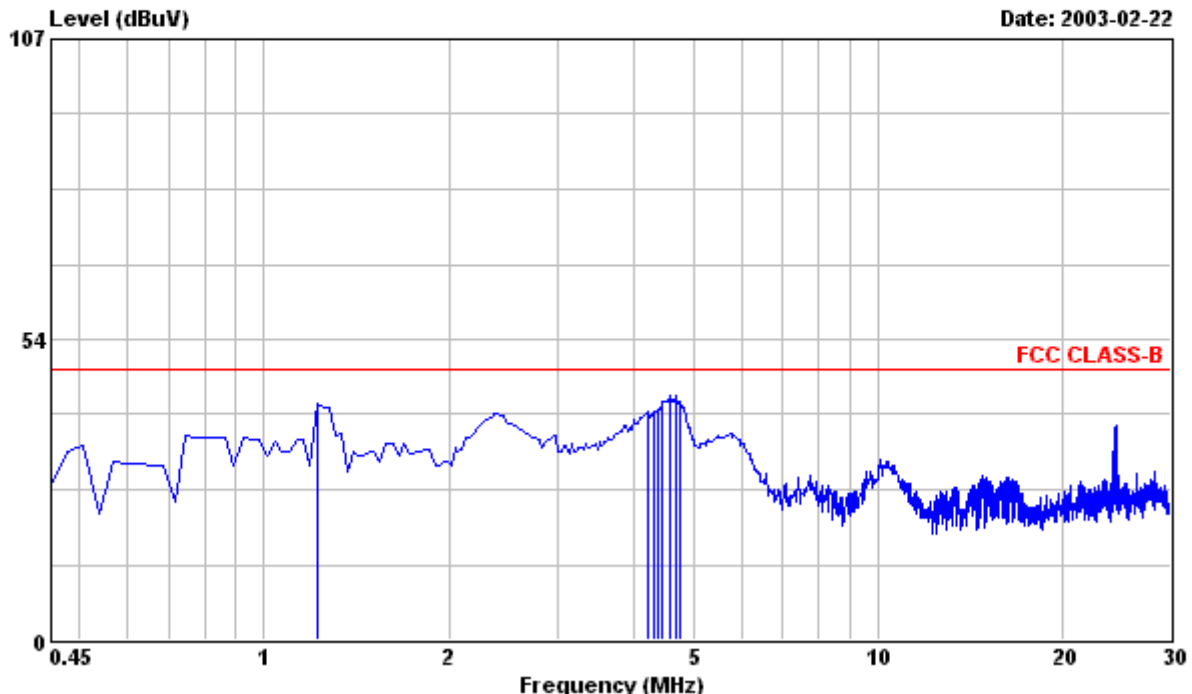


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Data#: 6

File#: C:\Program Files\em3\EMI03-009-C(IBM 6739-60N).emi



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Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : IBM 6739-60N Serial No:TY0302101
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD WAS
: TESTED.

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

1.218	41.70	---	48.00	0.40	42.10	-5.90	Peak
4.232	40.41	---	48.00	0.37	40.78	-7.22	Peak
4.321	40.31	---	48.00	0.36	40.67	-7.33	Peak
4.380	40.80	---	48.00	0.36	41.16	-6.84	Peak
4.439	42.10	---	48.00	0.35	42.45	-5.55	Peak
4.587	43.30	---	48.00	0.34	43.64	-4.36	Peak
4.676	43.20	---	48.00	0.33	43.53	-4.47	Peak
4.764	42.00	---	48.00	0.32	42.32	-5.68	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

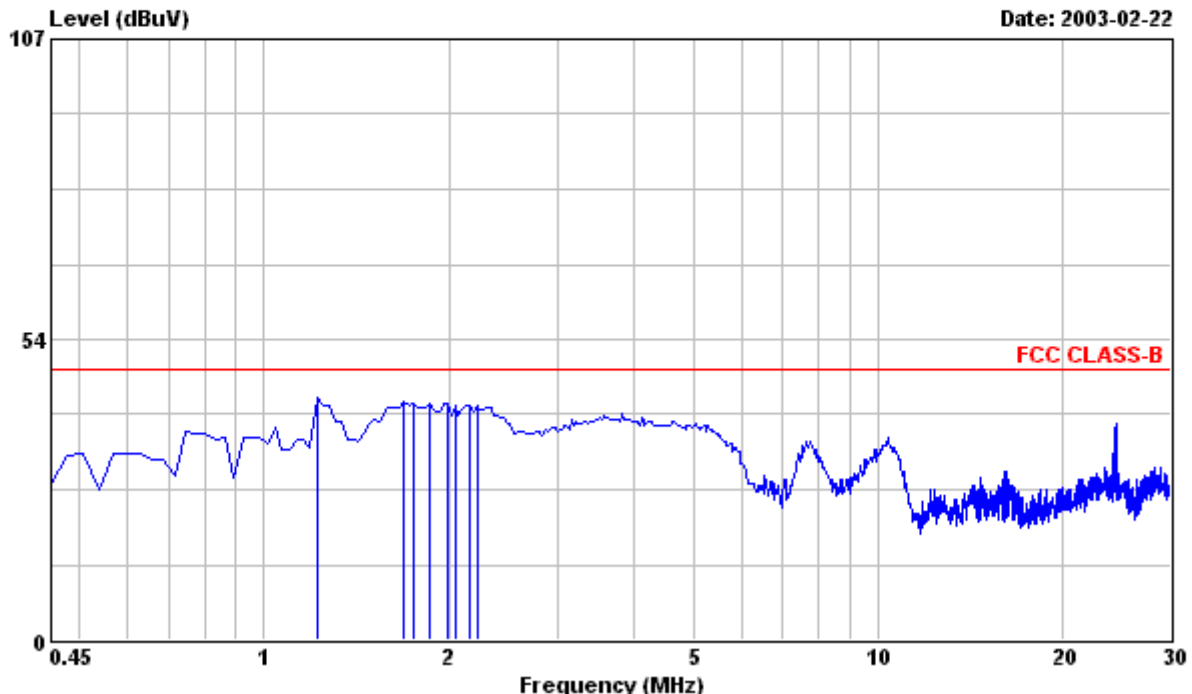


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Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : IBM 6739-60N Serial No:TY0302101
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD WAS
: TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
1.218	42.70	---	48.00	0.40	43.10	-4.90	Peak
1.691	42.10	---	48.00	0.40	42.50	-5.50	Peak
1.750	41.60	---	48.00	0.40	42.00	-6.00	Peak
1.868	41.60	---	48.00	0.40	42.00	-6.00	Peak
1.987	41.60	---	48.00	0.40	42.00	-6.00	Peak
2.046	41.30	---	48.00	0.40	41.70	-6.30	Peak
2.164	41.20	---	48.00	0.40	41.60	-6.40	Peak
2.223	41.40	---	48.00	0.40	41.80	-6.20	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

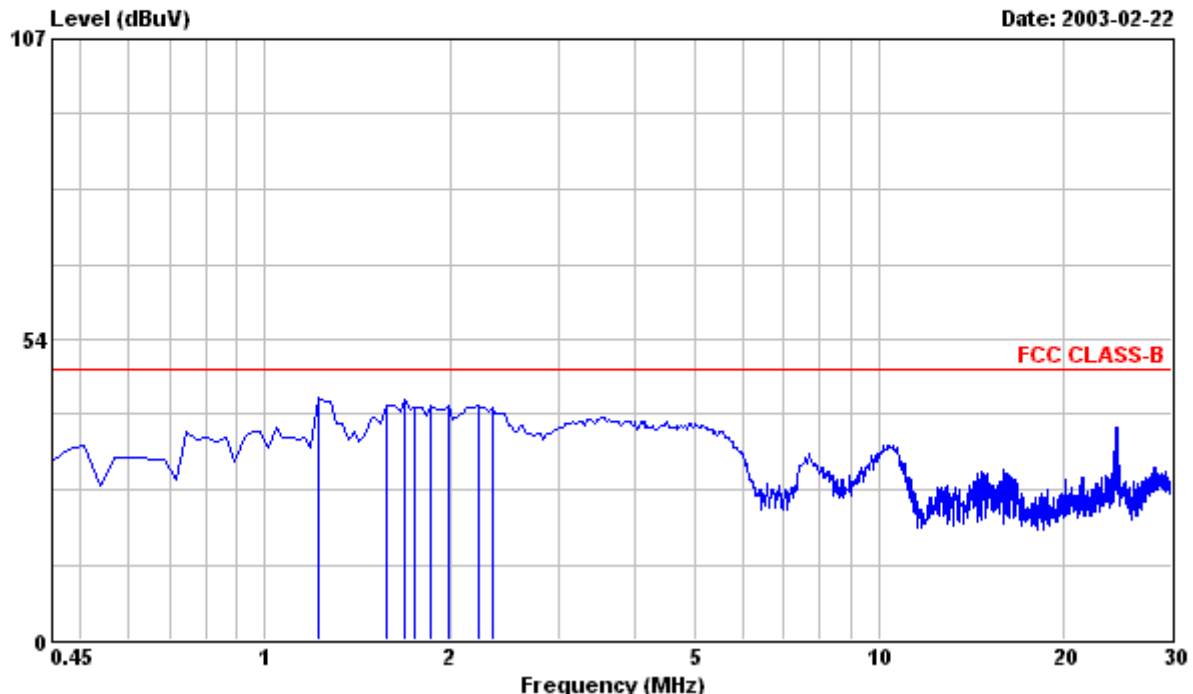


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Data#: 8

File#: C:\Program Files\em3\EMI03-009-C(IBM 6739-60N).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : IBM 6739-60N Serial No:TY0302101
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD WAS
: TESTED.

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

1.218	42.80	---	48.00	0.40	43.20	-4.80	Peak
1.573	41.50	---	48.00	0.40	41.90	-6.10	Peak
1.691	42.40	---	48.00	0.40	42.80	-5.20	Peak
1.750	41.00	---	48.00	0.40	41.40	-6.60	Peak
1.868	41.20	---	48.00	0.40	41.60	-6.40	Peak
1.987	41.50	---	48.00	0.40	41.90	-6.10	Peak
2.223	41.30	---	48.00	0.40	41.70	-6.30	Peak
2.341	40.80	---	48.00	0.40	41.20	-6.80	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

Radiated Emissions	
FCC Part 15	
Operating conditions EUT:	
EUT powered on with scrolling “H” pattern.	
Limits:	
Frequency range (MHz)	Class A at 10m (dBuv) QP Class B at 3m (dBuv) QP
30.0 – 88.0	39.0 40.0
88.0 – 216.0	43.5 43.5
216.0 – 960.0	46.5 46.0
960.0 – 1000.0	49.5 54.0
Above 1000.0	49.5 54.0 Average
Test Result :	
Passed FCC Class B Limits	
Remark:	
Date of Test	: 22 Feb., 2003 to 24 Feb., 2003
Test Engineer	: C.C.Wu
For detail measurement results see next pages.	

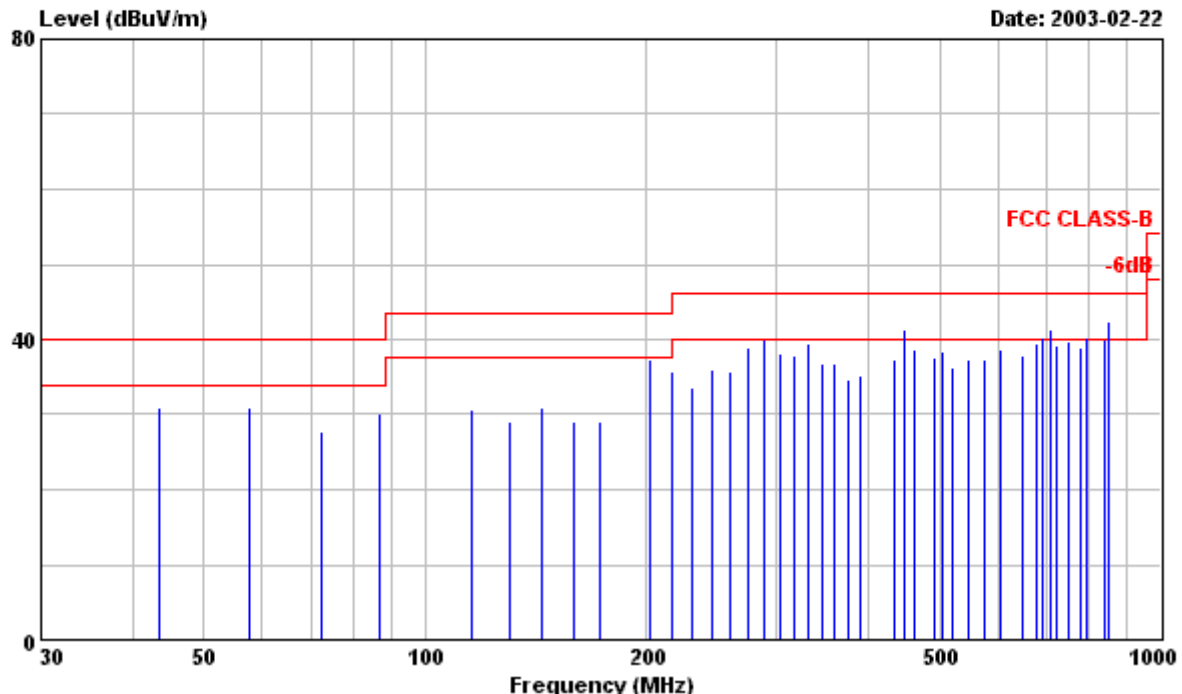


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Data#: 1

File#: C:\Program Files\em3\EMI03-009-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : IBM 6739-60N Serial No:TY0302101
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 16 ARIAL "H" PATTERN.
: 3. 1600x1200/75Hz 93.8KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD 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	
43.320	19.20	---	40.00	11.69	30.89	-9.11	Peak
57.730	20.90	---	40.00	10.09	30.99	-9.01	Peak
72.170	17.60	---	40.00	10.08	27.68	-12.32	Peak
86.590	19.30	---	40.00	10.73	30.03	-9.97	Peak
115.460	18.50	---	43.50	12.17	30.67	-12.83	Peak
129.900	16.30	---	43.50	12.69	28.99	-14.51	Peak
144.350	17.70	---	43.50	13.22	30.92	-12.58	Peak
158.750	15.40	---	43.50	13.66	29.06	-14.44	Peak
173.200	15.00	---	43.50	14.05	29.05	-14.45	Peak
202.060	20.90	---	43.50	16.50	37.40	-6.10	Peak
216.470	18.00	---	46.00	17.81	35.81	-10.19	Peak
230.910	14.70	---	46.00	18.99	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)



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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	
245.350	15.80	---	46.00	20.11	35.91	-10.09	Peak
259.780	14.70	---	46.00	21.07	35.77	-10.23	Peak
274.190	17.00	---	46.00	21.85	38.85	-7.15	Peak
288.660	17.30	---	46.00	22.63	39.93	-6.07	Peak
303.080	21.50	---	46.00	16.55	38.05	-7.95	Peak
317.500	21.00	---	46.00	16.85	37.85	-8.15	Peak
331.940	22.30	---	46.00	17.16	39.46	-6.54	Peak
346.390	19.40	---	46.00	17.44	36.84	-9.16	Peak
360.800	19.20	---	46.00	17.70	36.90	-9.10	Peak
375.240	16.80	---	46.00	17.95	34.75	-11.25	Peak
389.670	17.10	---	46.00	18.21	35.31	-10.69	Peak
432.970	18.60	---	46.00	18.85	37.45	-8.55	Peak
! 447.400	22.40	---	46.00	19.06	41.46	-4.54	Peak
447.400	---	20.56	46.00	19.06	39.62	-6.38	QP
461.830	19.40	---	46.00	19.25	38.65	-7.35	Peak
490.710	18.10	---	46.00	19.60	37.70	-8.30	Peak
505.120	18.60	---	46.00	19.79	38.39	-7.61	Peak
519.540	16.30	---	46.00	20.02	36.32	-9.68	Peak
548.420	16.90	---	46.00	20.48	37.38	-8.62	Peak
577.290	16.50	---	46.00	20.88	37.38	-8.62	Peak
606.150	17.30	---	46.00	21.36	38.66	-7.34	Peak
649.440	15.50	---	46.00	22.40	37.90	-8.10	Peak
678.310	16.40	---	46.00	23.03	39.43	-6.57	Peak
! 692.760	16.90	---	46.00	23.34	40.24	-5.76	Peak
692.760	---	13.85	46.00	23.34	37.19	-8.81	QP
707.170	---	13.78	46.00	23.60	37.38	-8.62	QP
! 707.170	17.70	---	46.00	23.60	41.30	-4.70	Peak
721.600	15.30	---	46.00	23.81	39.11	-6.89	Peak
750.480	15.60	---	46.00	24.18	39.78	-6.22	Peak
779.340	14.40	---	46.00	24.56	38.96	-7.04	Peak
! 793.770	15.50	---	46.00	24.73	40.23	-5.77	Peak
793.770	---	12.06	46.00	24.73	36.79	-9.21	QP
837.070	14.50	---	46.00	25.37	39.87	-6.13	Peak
! 851.500	16.80	---	46.00	25.59	42.39	-3.61	Peak
851.500	---	13.38	46.00	25.59	38.97	-7.03	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)

Tested by : C C.Wu

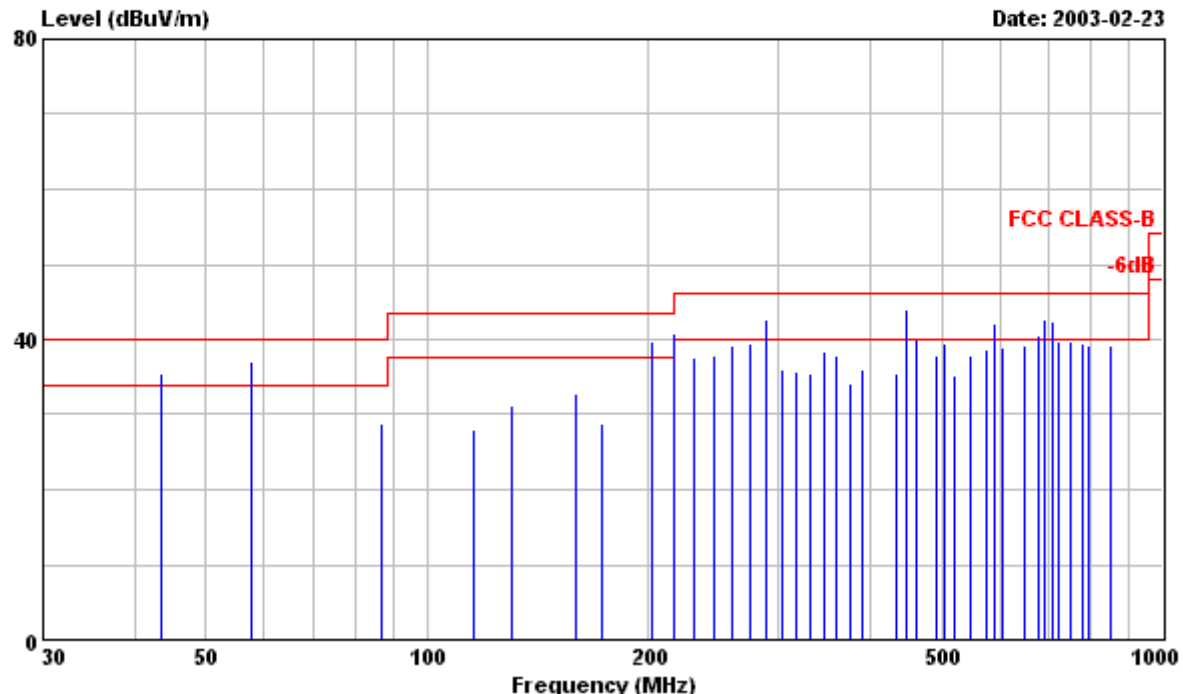


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Data#: 2

File#: C:\Program Files\emi\EMI03-009-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : IBM 6739-60N Serial No:TY0302101
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 16 ARIAL "H" PATTERN.
: 3. 1600x1200/75Hz 93.8KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD 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	
! 43.320	23.70	---	40.00	11.69	35.39	-4.61	Peak
! 43.320	---	22.40	40.00	11.69	34.09	-5.91	QP
! 57.730	27.00	---	40.00	10.09	37.09	-2.91	Peak
! 57.730	---	25.30	40.00	10.09	35.39	-4.61	QP
86.590	18.00	---	40.00	10.73	28.73	-11.27	Peak
115.460	15.90	---	43.50	12.17	28.07	-15.43	Peak
129.900	18.60	---	43.50	12.69	31.29	-12.21	Peak
158.750	19.10	---	43.50	13.66	32.76	-10.74	Peak
173.200	14.80	---	43.50	14.05	28.85	-14.65	Peak
! 202.060	23.20	---	43.50	16.50	39.70	-3.80	Peak
! 202.060	---	21.70	43.50	16.50	38.20	-5.30	QP
! 216.470	23.10	---	46.00	17.81	40.91	-5.09	Peak

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



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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	
216.470	---	21.50	46.00	17.81	39.31	-6.69	QP
230.910	18.50	---	46.00	18.99	37.49	-8.51	Peak
245.350	17.70	---	46.00	20.11	37.81	-8.19	Peak
259.780	18.10	---	46.00	21.07	39.17	-6.83	Peak
274.220	17.60	---	46.00	21.85	39.45	-6.55	Peak
! 288.660	20.30	---	46.00	22.63	42.93	-3.07	Peak
! 288.660	---	18.80	46.00	22.63	41.43	-4.57	QP
303.080	19.40	---	46.00	16.55	35.95	-10.05	Peak
317.500	18.90	---	46.00	16.85	35.75	-10.25	Peak
331.940	18.20	---	46.00	17.16	35.36	-10.64	Peak
346.390	20.90	---	46.00	17.44	38.34	-7.66	Peak
360.800	20.10	---	46.00	17.70	37.80	-8.20	Peak
375.240	16.10	---	46.00	17.95	34.05	-11.95	Peak
389.670	17.80	---	46.00	18.21	36.01	-9.99	Peak
432.970	16.70	---	46.00	18.85	35.55	-10.45	Peak
! 447.400	24.90	---	46.00	19.06	43.96	-2.04	Peak
! 447.400	---	23.74	46.00	19.06	42.80	-3.20	QP
461.830	20.70	---	46.00	19.25	39.95	-6.05	Peak
490.710	18.30	---	46.00	19.60	37.90	-8.10	Peak
505.120	19.60	---	46.00	19.79	39.39	-6.61	Peak
519.540	15.10	---	46.00	20.02	35.12	-10.88	Peak
548.420	17.30	---	46.00	20.48	37.78	-8.22	Peak
577.290	17.70	---	46.00	20.88	38.58	-7.42	Peak
! 591.730	21.10	---	46.00	21.08	42.18	-3.82	Peak
! 591.730	---	19.10	46.00	21.08	40.18	-5.82	QP
606.150	17.50	---	46.00	21.36	38.86	-7.14	Peak
649.440	16.80	---	46.00	22.40	39.20	-6.80	Peak
! 678.310	17.60	---	46.00	23.03	40.63	-5.37	Peak
! 692.760	19.60	---	46.00	23.34	42.94	-3.06	Peak
! 692.760	---	16.81	46.00	23.34	40.15	-5.85	QP
! 707.170	18.80	---	46.00	23.60	42.40	-3.60	Peak
707.170	---	15.86	46.00	23.60	39.46	-6.54	QP
721.600	15.90	---	46.00	23.81	39.71	-6.29	Peak
750.480	15.60	---	46.00	24.18	39.78	-6.22	Peak
779.340	14.90	---	46.00	24.56	39.46	-6.54	Peak
793.770	14.40	---	46.00	24.73	39.13	-6.87	Peak
851.500	13.50	---	46.00	25.59	39.09	-6.91	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

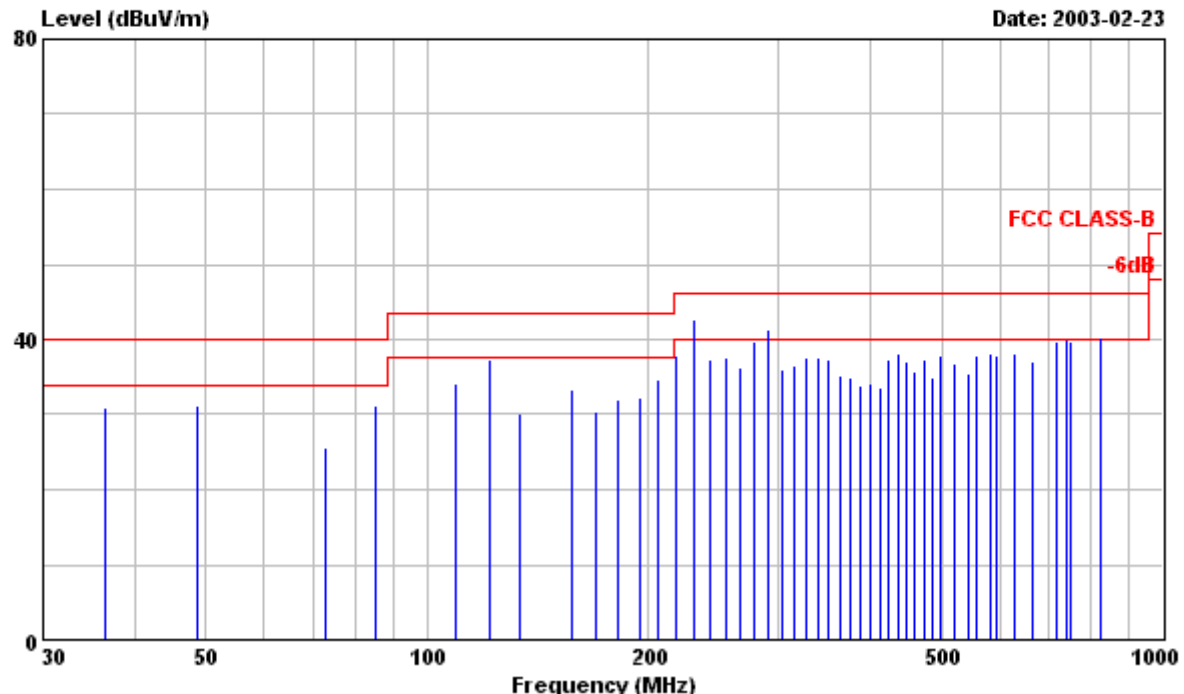


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Data#: 3

File#: C:\Program Files\em3\EMI03-009-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : IBM 6739-60N Serial No:TY0302101
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD 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	
36.380	17.80	---	40.00	13.09	30.89	-9.11	Peak
48.490	20.30	---	40.00	11.01	31.31	-8.69	Peak
72.720	15.80	---	40.00	10.12	25.92	-14.08	Peak
84.840	20.50	---	40.00	10.64	31.14	-8.86	Peak
109.060	22.60	---	43.50	11.87	34.47	-9.03	Peak
121.180	24.80	---	43.50	12.41	37.21	-6.29	Peak
133.300	17.20	---	43.50	12.82	30.02	-13.48	Peak
157.550	19.80	---	43.50	13.63	33.43	-10.07	Peak
169.660	16.40	---	43.50	13.96	30.36	-13.14	Peak
181.790	17.30	---	43.50	14.59	31.89	-11.61	Peak
193.920	16.60	---	43.50	15.73	32.33	-11.17	Peak
206.020	17.90	---	43.50	16.82	34.72	-8.78	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	
218.140	19.80	---	46.00	17.94	37.74	-8.26	Peak
! 230.250	---	22.31	46.00	18.92	41.23	-4.77	QP
! 230.250	24.00	---	46.00	18.92	42.92	-3.08	Peak
242.350	17.30	---	46.00	19.91	37.21	-8.79	Peak
254.480	16.90	---	46.00	20.76	37.66	-8.34	Peak
266.610	14.90	---	46.00	21.43	36.33	-9.67	Peak
278.730	17.60	---	46.00	22.11	39.71	-6.29	Peak
! 290.830	18.60	---	46.00	22.73	41.33	-4.67	Peak
302.960	19.50	---	46.00	16.52	36.02	-9.98	Peak
315.080	19.70	---	46.00	16.80	36.50	-9.50	Peak
327.200	20.50	---	46.00	17.04	37.54	-8.46	Peak
339.330	20.30	---	46.00	17.30	37.60	-8.40	Peak
351.460	19.90	---	46.00	17.53	37.43	-8.57	Peak
363.570	17.40	---	46.00	17.74	35.14	-10.86	Peak
375.690	17.00	---	46.00	17.98	34.98	-11.02	Peak
387.800	15.60	---	46.00	18.19	33.79	-12.21	Peak
399.930	15.90	---	46.00	18.40	34.30	-11.70	Peak
412.030	15.00	---	46.00	18.57	33.57	-12.43	Peak
424.130	18.60	---	46.00	18.73	37.33	-8.67	Peak
436.260	19.30	---	46.00	18.90	38.20	-7.80	Peak
448.380	17.90	---	46.00	19.06	36.96	-9.04	Peak
460.490	16.60	---	46.00	19.23	35.83	-10.17	Peak
472.610	17.90	---	46.00	19.37	37.27	-8.73	Peak
484.740	15.50	---	46.00	19.51	35.01	-10.99	Peak
496.870	18.20	---	46.00	19.68	37.88	-8.12	Peak
521.120	16.80	---	46.00	20.05	36.85	-9.15	Peak
545.320	15.00	---	46.00	20.42	35.42	-10.58	Peak
557.450	17.20	---	46.00	20.59	37.79	-8.21	Peak
581.680	17.30	---	46.00	20.94	38.24	-7.76	Peak
593.810	16.70	---	46.00	21.11	37.81	-8.19	Peak
630.160	16.10	---	46.00	21.93	38.03	-7.97	Peak
666.530	14.30	---	46.00	22.77	37.07	-8.93	Peak
714.980	16.10	---	46.00	23.71	39.81	-6.19	Peak
739.210	15.90	---	46.00	24.05	39.95	-6.05	Peak
751.340	15.50	---	46.00	24.18	39.68	-6.32	Peak
! 824.060	15.20	---	46.00	25.20	40.40	-5.60	Peak
824.060	---	12.66	46.00	25.20	37.86	-8.14	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)

Tested by : C C.Wu

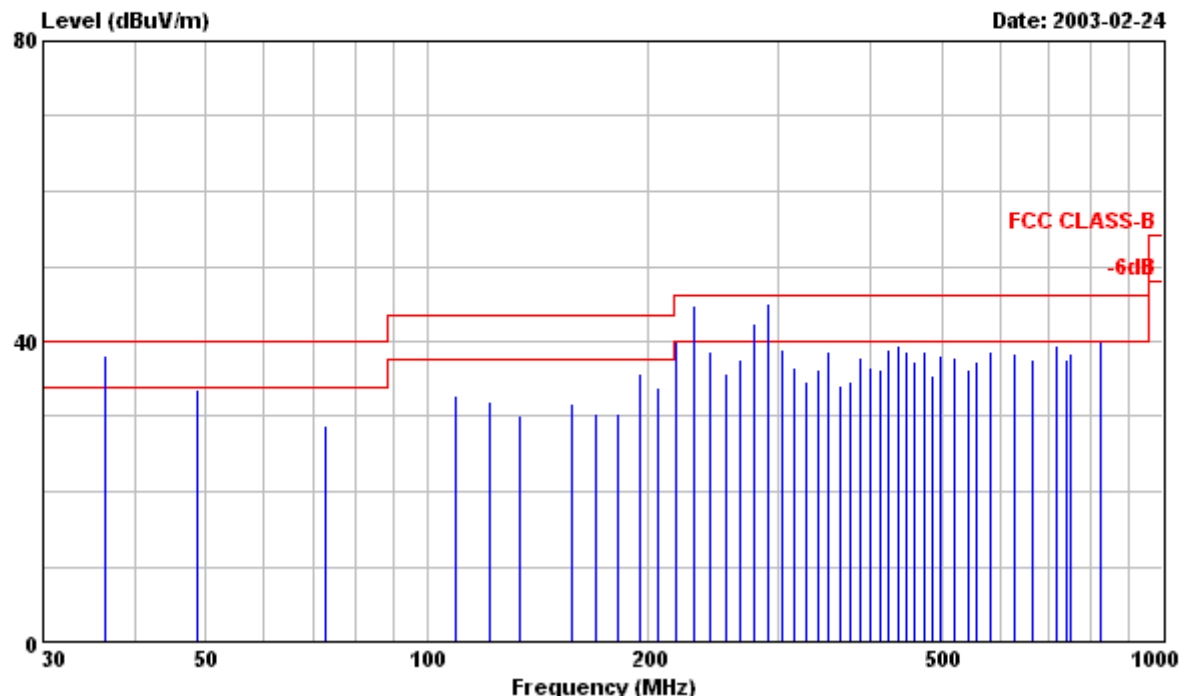


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Data#: 4

File#: C:\Program Files\em3\EMI03-009-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : IBM 6739-60N Serial No:TY0302101
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL SDI TUBE,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN.
: 3. 1280x1024/85Hz 91.1KHz MODE WITH IBM
: 8305-52V PC,VIDEO CARD ONBOARD WAS
: TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz						VERTICAL		
! 36.380	---	23.80	40.00	13.09	36.89	-3.11	QP	
! 36.380	25.00	---	40.00	13.09	38.09	-1.91	Peak	
48.490	22.60	---	40.00	11.01	33.61	-6.39	Peak	
72.720	18.60	---	40.00	10.12	28.72	-11.28	Peak	
109.060	21.00	---	43.50	11.87	32.87	-10.63	Peak	
121.180	19.60	---	43.50	12.41	32.01	-11.49	Peak	
133.300	17.40	---	43.50	12.82	30.22	-13.28	Peak	
157.550	18.00	---	43.50	13.63	31.63	-11.87	Peak	
169.660	16.40	---	43.50	13.96	30.36	-13.14	Peak	
181.790	15.70	---	43.50	14.59	30.29	-13.21	Peak	
193.920	19.90	---	43.50	15.73	35.63	-7.87	Peak	
206.020	17.10	---	43.50	16.82	33.92	-9.58	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	
! 218.140	22.10	---	46.00	17.94	40.04	-5.96	Peak
218.140	---	20.30	46.00	17.94	38.24	-7.76	QP
! 230.250	---	24.42	46.00	18.92	43.34	-2.66	QP
! 230.250	26.01	---	46.00	18.92	44.93	-1.07	Peak
242.350	18.70	---	46.00	19.91	38.61	-7.39	Peak
254.480	15.10	---	46.00	20.76	35.86	-10.14	Peak
266.610	16.20	---	46.00	21.43	37.63	-8.37	Peak
! 278.730	20.20	---	46.00	22.11	42.31	-3.69	Peak
! 278.730	---	18.50	46.00	22.11	40.61	-5.39	QP
! 290.830	22.30	---	46.00	22.73	45.03	-0.97	Peak
! 290.830	---	20.70	46.00	22.73	43.43	-2.57	QP
302.960	22.50	---	46.00	16.52	39.02	-6.98	Peak
315.080	19.80	---	46.00	16.80	36.60	-9.40	Peak
327.200	17.50	---	46.00	17.04	34.54	-11.46	Peak
339.330	19.10	---	46.00	17.30	36.40	-9.60	Peak
351.460	21.10	---	46.00	17.53	38.63	-7.37	Peak
363.570	16.70	---	46.00	17.74	34.44	-11.56	Peak
375.690	16.70	---	46.00	17.98	34.68	-11.32	Peak
387.800	19.60	---	46.00	18.19	37.79	-8.21	Peak
399.930	18.20	---	46.00	18.40	36.60	-9.40	Peak
412.030	17.70	---	46.00	18.57	36.27	-9.73	Peak
424.130	20.30	---	46.00	18.73	39.03	-6.97	Peak
436.260	20.60	---	46.00	18.90	39.50	-6.50	Peak
448.380	19.70	---	46.00	19.06	38.76	-7.24	Peak
460.490	18.10	---	46.00	19.23	37.33	-8.67	Peak
472.610	19.30	---	46.00	19.37	38.67	-7.33	Peak
484.740	15.90	---	46.00	19.51	35.41	-10.59	Peak
496.870	18.40	---	46.00	19.68	38.08	-7.92	Peak
521.120	17.70	---	46.00	20.05	37.75	-8.25	Peak
545.320	15.90	---	46.00	20.42	36.32	-9.68	Peak
557.450	16.70	---	46.00	20.59	37.29	-8.71	Peak
581.680	17.60	---	46.00	20.94	38.54	-7.46	Peak
630.160	16.40	---	46.00	21.93	38.33	-7.67	Peak
666.530	14.70	---	46.00	22.77	37.47	-8.53	Peak
714.980	15.80	---	46.00	23.71	39.51	-6.49	Peak
739.210	13.60	---	46.00	24.05	37.65	-8.35	Peak
751.340	14.20	---	46.00	24.18	38.38	-7.62	Peak
824.060	14.70	---	46.00	25.20	39.90	-6.10	Peak

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

Tested by : C C.Wu