

FCC TEST REPORT

Report No. : EMI99-66
Tested Date: Dec./30/99

Test Performed By
Philips Electronics Industries (Taiwan) Ltd.
Business Electronics
EMC Lab.
No. 5, Tze Chiang 1 Road,
Chungli, Taoyuan, Taiwan, R.O.C.
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Manufacturer : Philips Business Electronics

Tested System:

- | | |
|---------------|---|
| 1. EUT | : Philips 150P1H color LCD monitor s/n: TY9904066 |
| FCC ID | : A3KM095 |
| 2. Computer | : Dell XPS R400 s/n: FI8Q7 |
| FCC ID | : FCC Logo |
| 3. Keyboard | : Dell 1435C s/n: 12710 |
| FCC ID | : FCC Logo |
| 4. Mouse | : Microsoft 63618 s/n: 7132967 |
| FCC ID | : C3KKMP5 |
| 5. Modem | : USRobotics 268 s/n: 002680559278575 |
| FCC ID | : CJE-0318 |
| 6. Printer | : HP2225C s/n: 3123S97227 |
| FCC ID | : DSI6XU2225 |
| 7. Video Card | : ATI XPRT LCD s/n:10543 |
| FCC ID | : FCC Logo |

Note: Test was performed in according with FCC measurement procedure ANSI C63.4-1992
“AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF RADIO-NOISE
EMISSION FROM LOW-VOLTAGE ELECTRONIC EQUIPMENT IN THE RANGE
OF 9KHz TO 40GHz”

Monitor was connected to floor mounted AC outlet.
60.0KHz mode (1024x768/75Hz) was tested.
DVI I/F cable with two ferrite cores was used.
Non-shield power cord was used during test.
One USB keyboard and one USB mouse were connected to USB Hub.
Two extra USB cables with dummy load were connected to USB Hub.
Extra earphone was connected during test.

The test equipment used for testing please refer to the list as attached.

Deviation: None

Radiated RF Level – Peak Value

Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
54.0	29.54	28.34	40.0
66.0	27.68	30.28	40.0
72.01	28.46	30.16	40.0
84.71	33.65	32.85	40.0
132.0	31.76	31.12	43.5
136.02	31.76	31.06	43.5
185.98	31.74	27.94	43.5
233.98	34.8	33.8	46.0
245.97	35.04	33.94	46.0
255.0	38.85	36.75	46.0
264.06	37.26	36.06	46.0
275.94	36.44	34.74	46.0
287.98	37.6	36.1	46.0
306.01	31.42	34.02	46.0
315.03	35.56	32.46	46.0
336.07	36.56	32.46	46.0
340.01	35.66	37.06	46.0
384.08	33.02	33.42	46.0
393.79	33.78	33.58	46.0
408.0	31.19	33.69	46.0
442.0	32.1	35.8	46.0
476.0	32.73	35.83	46.0
480.11	36.66	36.16	46.0
510.0	33.18	34.68	46.0
551.31	36.42	37.32	46.0
576.12	34.71	36.01	46.0
624.14	36.36	36.76	46.0

Spectrum Analyzer Setting:

RBW: 100KHz

VBW: 100KHz

Quasi-peak Values were taken with Rohde & Schwarz ESVS 30 EMI test receiver.

Radiated RF Level – QP Value

Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
120.04	36.4	33.4	43.5
170.01	36.1	31.0	43.5
197.98	34.48	29.78	43.5
216.05	34.28	31.58	46.0
216.58	34.26	31.46	46.0
221.98	32.14	31.74	46.0
295.35	37.5	38.7	46.0

413.48	39.85	36.95	46.0
531.61	43.12	42.72	46.0
689.13	38.63	39.23	46.0
748.0	38.92	38.12	46.0
767.41	39.97	39.27	46.0

The spectrum was scanned from 30 to 1000MHz and the significant emissions were recorded.
Test distance between device under test and receiving antenna was 3-meter.

Sample of calculation:

Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dBuv) + Reading (dBuv/m)

Tested By:



C.C.Wu

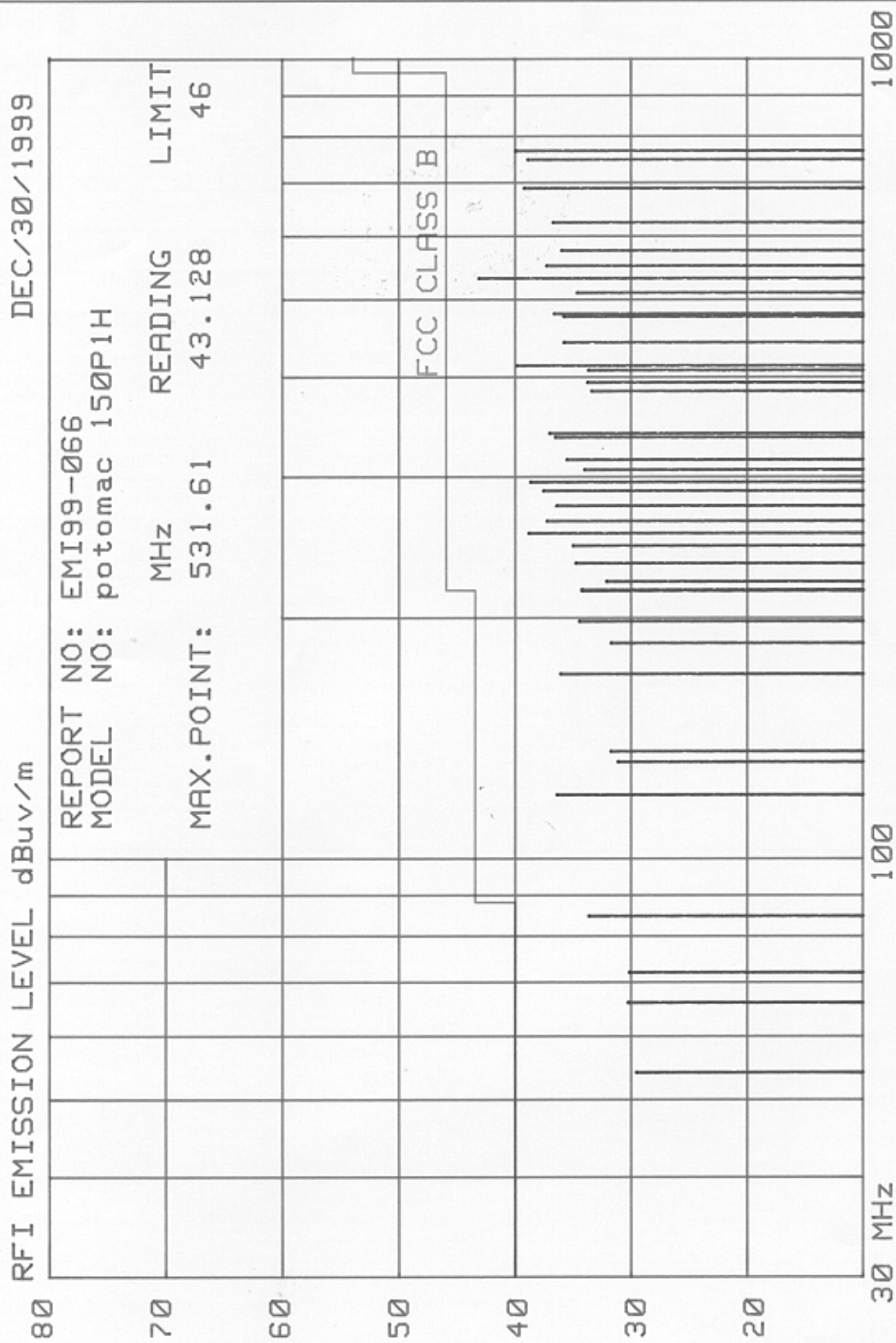
Checked By:



K.J.Hsu – EMC Engineer
NVLAP Signatory

RFI EMISSION LEVEL dBuV/m

DEC/30/1999

REPORT NO: EMI99-066
MODEL NO: potomac 150P1HMAX.POINT: 531.61
MHz
READING
43.128
LIMIT
46

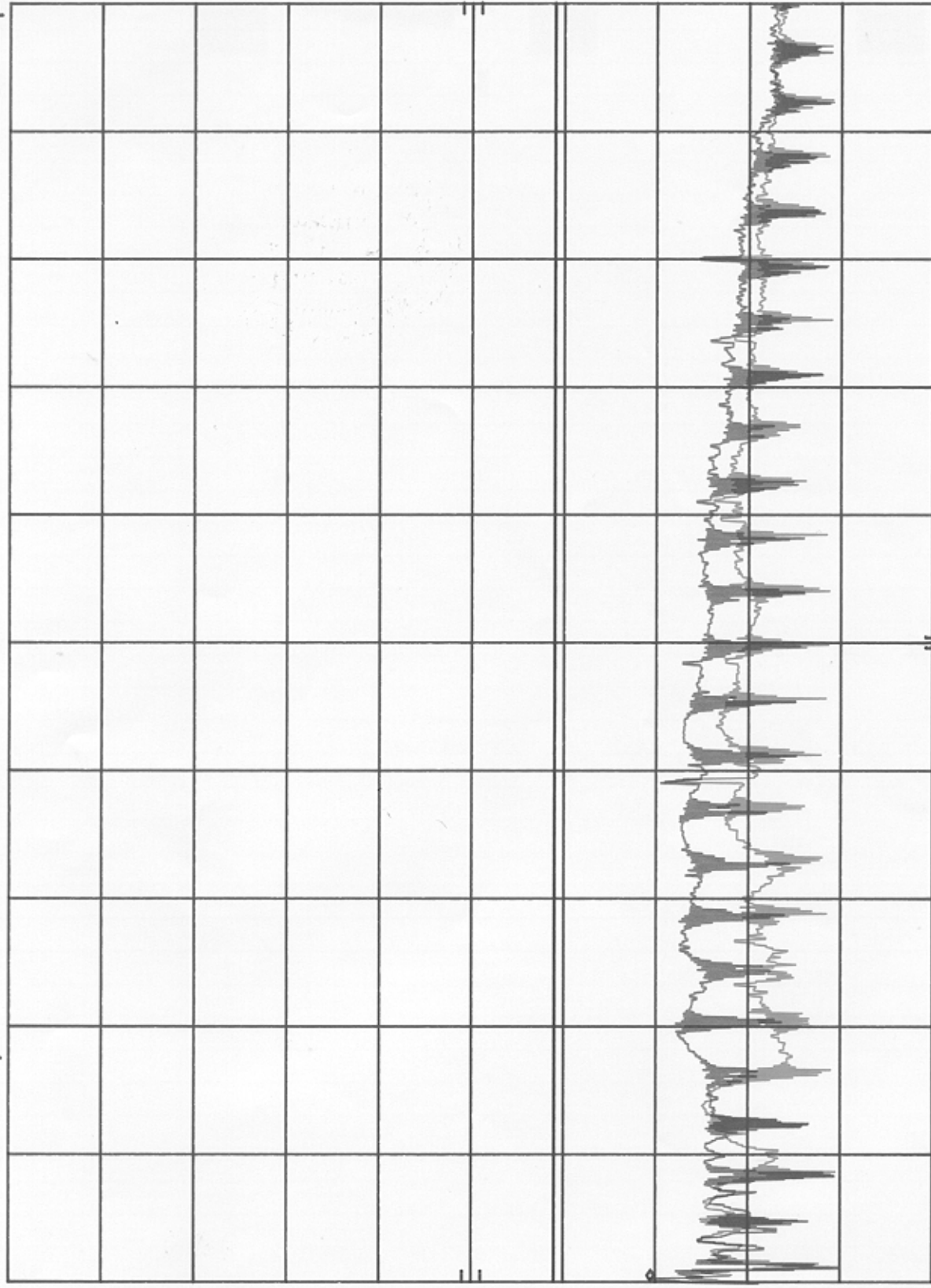
TESTED BY: C.C.Wu

A3KM095 (150P1H) 1024X768/75Hz W/DVI CABLE AC110V MKR 570 KHz
REF 107.0 dBμV ATTN 10 dB

hp

10 dB/

DL
48.0
dBμV



START 450 KHz

RES BW 10 KHz

VBW 10 KHz

SWP 750 msec

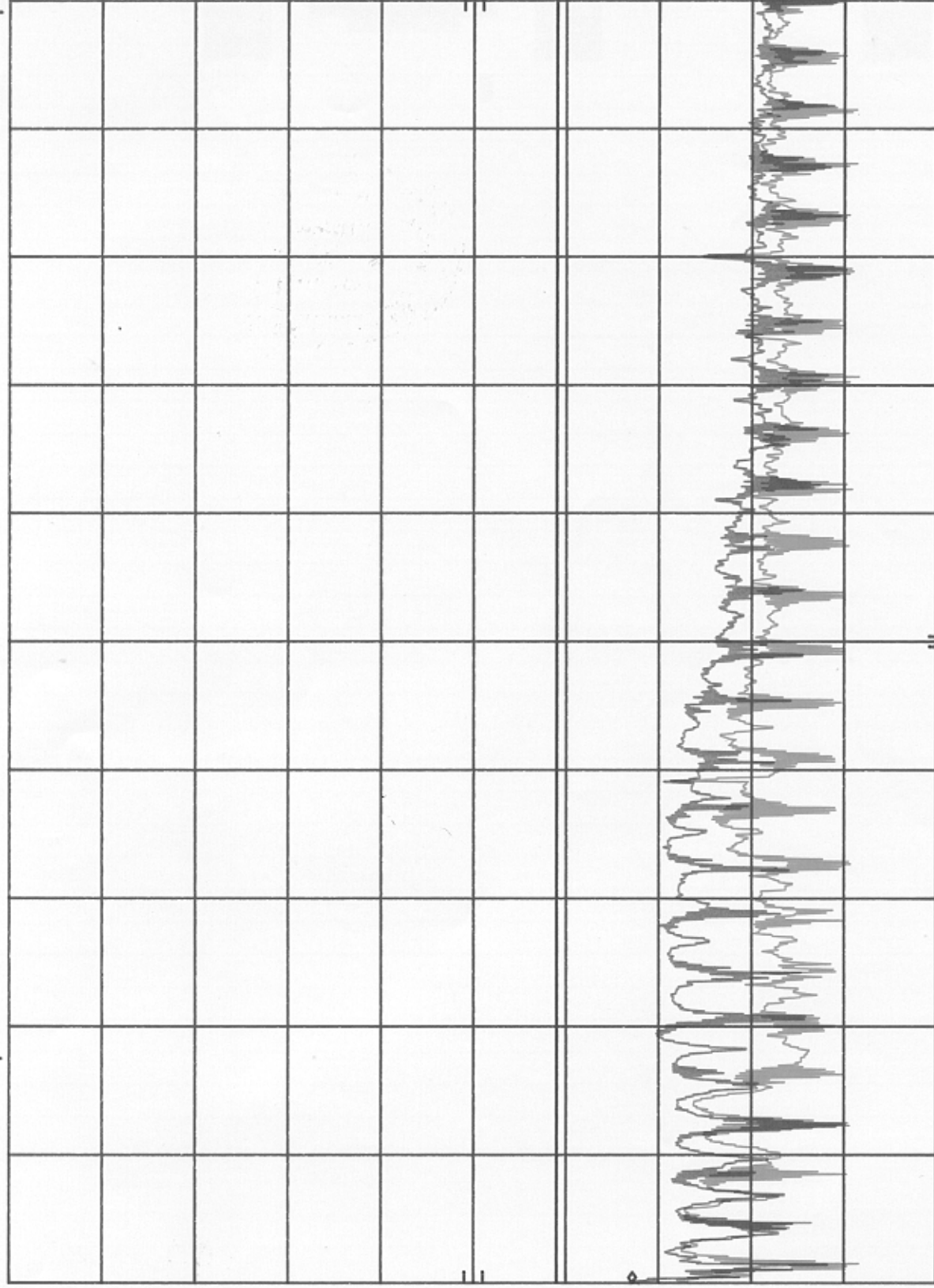
STOP 30.00 MHz

A3KM095 (150P1H) 1024X768/75Hz W/DVI CABLE AC220V MKR 510 KHZ
REF 107.0 dBμV ATTN 10 dB

HP

10 dB/

DL
48.0
dBμV



START 450 KHZ

RES BW 10 KHZ

VBW 10 KHZ

STOP 30.00 MHZ

SWP 750 msec