

FCC TEST REPORT

Report No. : EMI99-65
Tested Date: Dec./27/99

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 : Dell 1501FP color LCD monitor s/n: TY9904065
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 XPERT 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.
D-sub I/F cable with two ferrite cores was used.
Non-shield power cord was used 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)
53.42	30.93	32.23	40.0
58.28	25.88	28.68	40.0
63.15	26.09	27.49	40.0
72.86	27.44	29.54	40.0
82.58	31.65	31.25	40.0
111.74	27.62	ambient	43.5
116.6	32.92	33.22	43.5
121.45	33.53	33.73	43.5
136.02	29.46	27.56	43.5
140.88	29.21	ambient	43.5
184.6	31.75	30.95	43.5
189.46	32.91	ambient	43.5
238.02	34.8	35.6	46.0
252.58	38.25	39.35	46.0
286.59	38.35	39.95	46.0
306.01	33.42	39.22	46.0
315.73	31.66	37.96	46.0
340.01	32.16	39.46	46.0
374.0	31.5	36.6	46.0
388.58	30.70	35.6	46.0
408.0	32.19	35.09	46.0
442.0	32.5	34.2	46.0
534.42	33.03	33.53	46.0
578.0	36.23	36.03	46.0
646.0	36.64	37.04	46.0
680.0	38.72	38.62	46.0
850.0	39.7	39.8	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)
150.6	35.05	28.45	43.5
155.46	32.95	27.15	43.5
218.59	33.62	35.72	46.0
257.44	38.25	40.35	46.0
291.44	36.32	40.53	46.0
320.58	36.38	43.58	46.0
325.44	35.2	42.0	46.0
354.58	31.0	38.0	46.0
359.44	31.3	38.0	46.0

714.0	37.84	37.94	46.0
918.0	39.67	38.37	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/27/1999

REPORT NO: EMI99-065
MODEL NO: DELL potomac 1501FP

MHz READING LIMIT
MAX. POINT: 320.58 43.584 46

80

70

60

50

40

30

20

30 MHz

100

1000

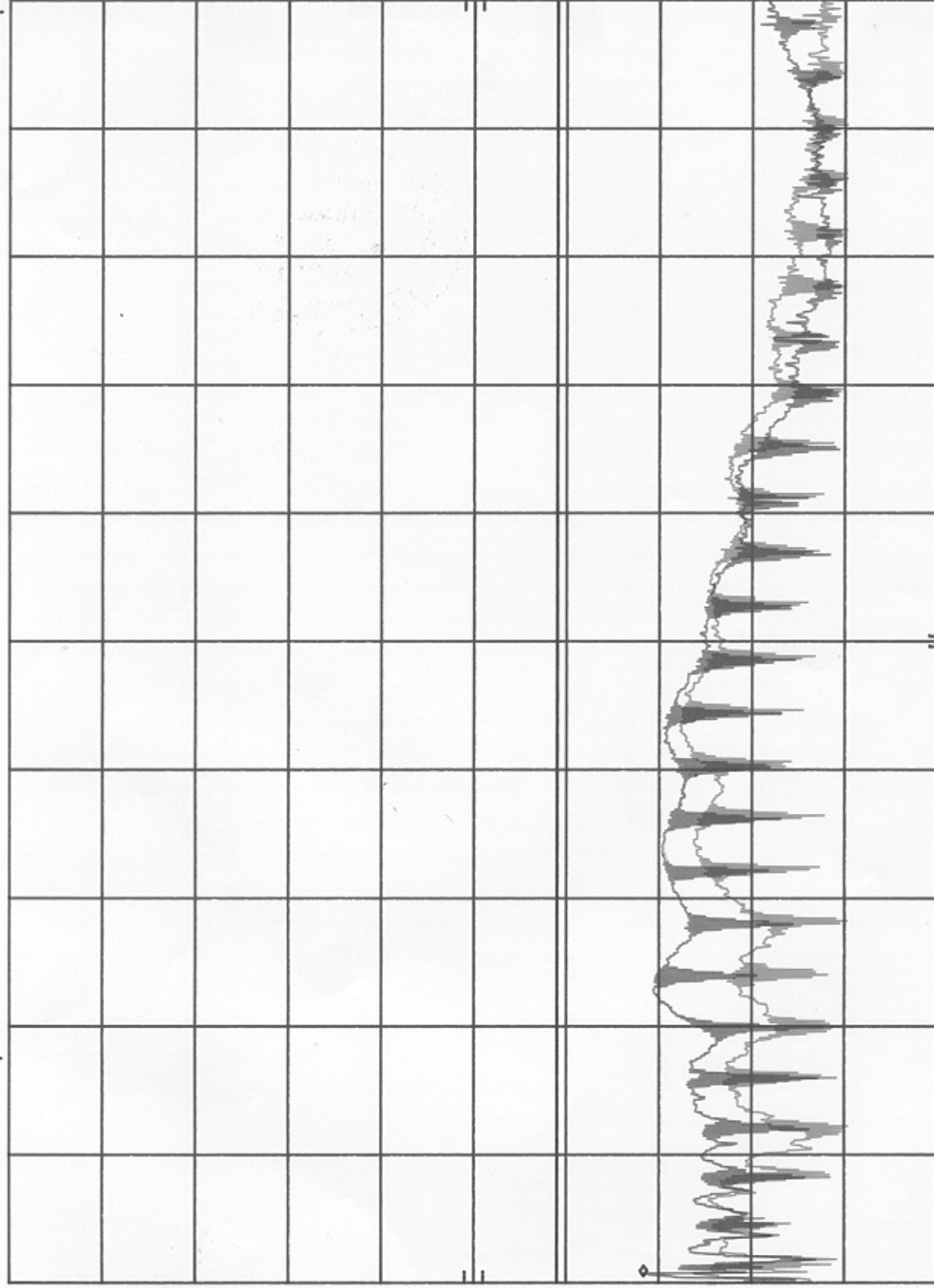
FCC CLASS B

TESTED BY: C.C.Wu

h_p A3KM095 (1501FP) 1024X768/75Hz W/D-SUB AC110V
REF 107.0 dBμV ATTEN 10 dB MKR 690 KHz
38.60 dBμV

10 dB/

DL
48.0
dBμV



START 450 KHz RES BW 10 KHz VBW 10 KHz STOP 30.00 MHz SWP 750 msec

A3KM095 (1501FP) 1024X768/75Hz W/D-SUB AC220V

MKR 450 KHz

REF 107.0 dB μ V ATTN 10 dB

42.50 dB μ V

hp

10 dB/

DL
48.0
dB μ V

START 450 KHz

STOP 30.00 MHz

RES BW 10 KHz

VBW 10 KHz

SWP 750 msec

