FCC TEST REPORT

Report No. : EMI01-030
Tested Date: Aug./13/2001

Test Performed By
Philips Electronics Industries (Taiwan) Ltd.
Business Electronics
EMC Lab.
No. 5, Tze Chiang 1 Road,
Chungli, Taoyuan, Taiwan, R.O.C.
Tel.: + 886-3-454-9862 Fax.: +886-3-454-9887

Manufacturer : Philips Business Electronics

Tested System:

1. EUT : Philips 170B2 LCD color monitor s/n: TY0104030
   FCC ID : A3KM104
2. Computer : Compaq ENC-P733 s/n: 6040DYSZE404
   FCC ID : FCC Logo
3. Keyboard : Compaq KB-9963 s/n: B26950GGALP13Q
   FCC ID : FCC Logo
4. Mouse : M-S48A s/n: F2240H5BLN0AQ
   FCC ID : JNZ201213
5. Modem : USRoboties 268 s/n: 002680559278575
   FCC ID : CJE-0318
6. Printer : HP2225C s/n: 3123S97227
   FCC ID : DSI6XU2225
7. Video Card : ATI RADEON AGP s/n: n/a
   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.
80.0KHz mode (1280x1024/75Hz) was tested.
D-sub to 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)
67.79	23.94	31.44	40.0
128.18	34.34	35.24	43.5
135.23	28.95	32.65	43.5
169.03	35.17	37.47	43.5
192.26	32.72	30.12	43.5
224.31	32.58	33.78	46.0
236.65	39.25	36.15	46.0
256.36	37.9	36.6	46.0
269.03	39.46	41.76	46.0
320.45	36.08	36.98	46.0

352.5	36.4	35.3	46.0
368.52	31.7	33.9	46.0
384.54	35.46	38.76	46.0
416.58	33.2	36.9	46.0
480.66	34.89	36.99	46.0
512.7	34.7	39.3	46.0
544.76	37.68	36.68	46.0
576.82	36.62	36.72	46.0
608.86	37.78	38.18	46.0
640.9	36.64	38.04	46.0
737.02	38.65	39.25	46.0
769.08	39.5	39.81	46.0
961.35	43.87	43.77	54.0

Spectrum Analyzer Setting:
RBW: 100KHz
VBW: 100KHz

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

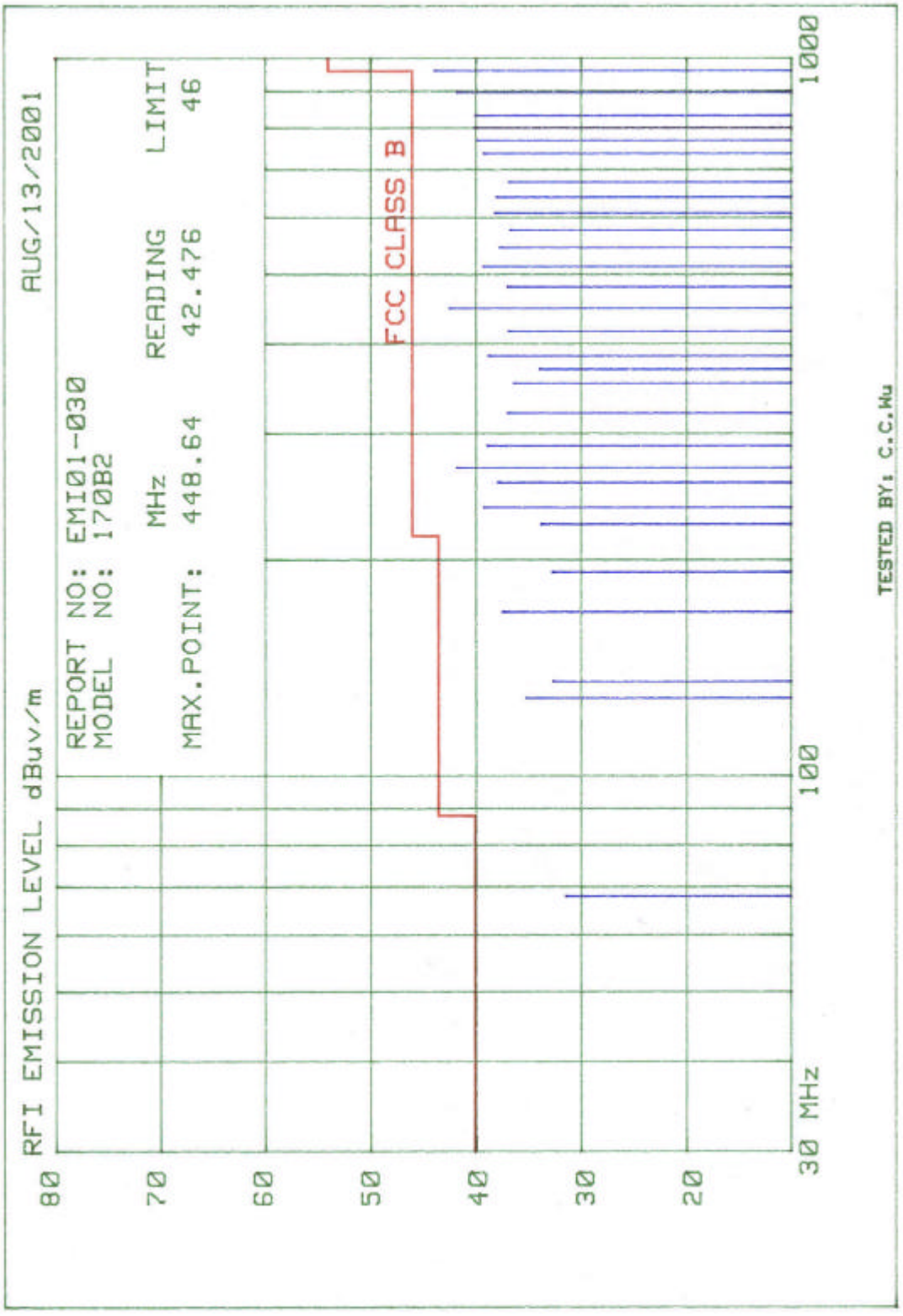
Radiated RF Level – QP Value

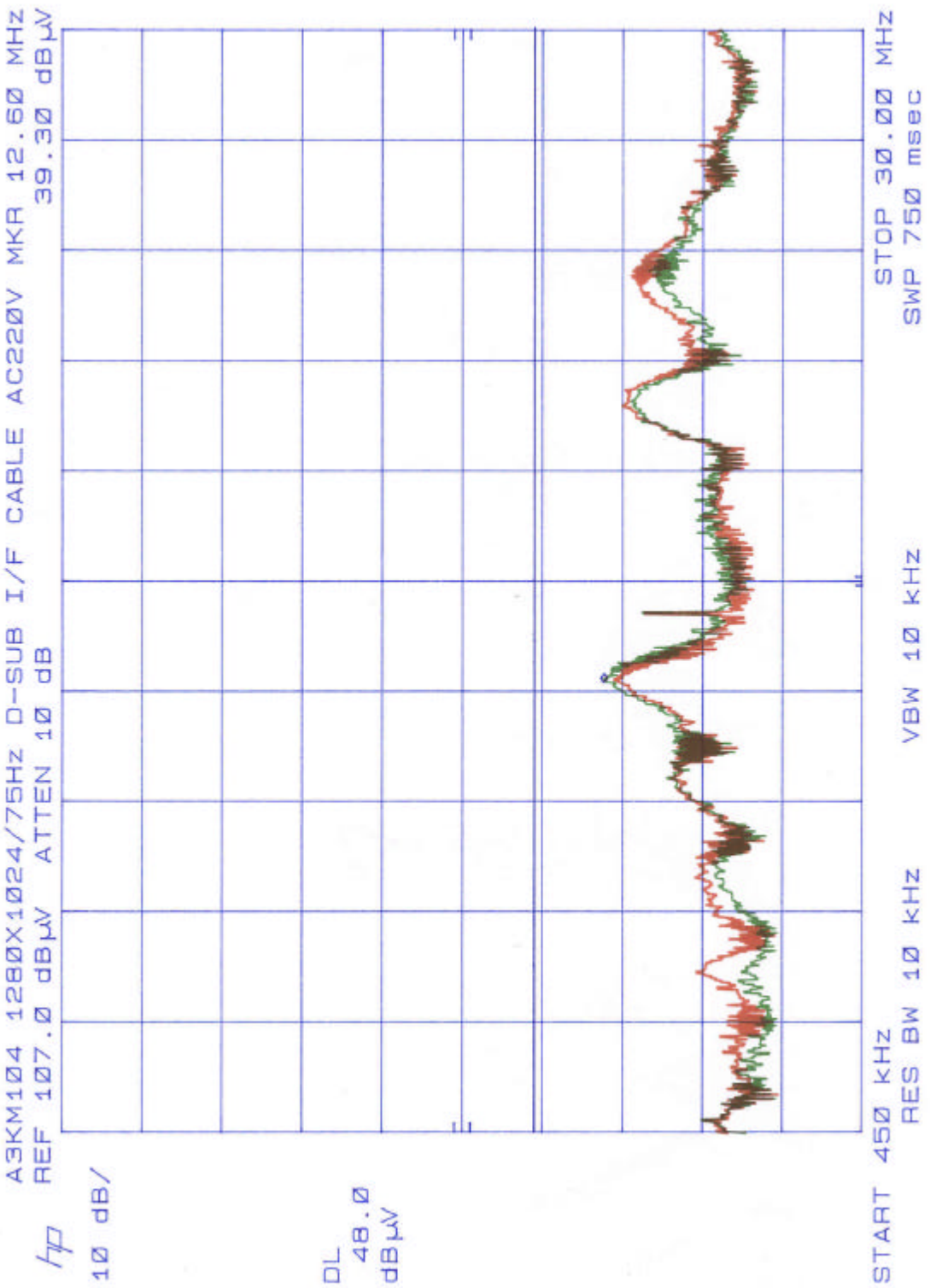
Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
288.41	38.9	38.3	46.0
448.64	36.27	42.47	46.0
672.94	35.66	36.86	46.0
801.12	37.51	40.11	46.0
833.17	39.82	40.02	46.0
897.26	38.88	41.78	46.0

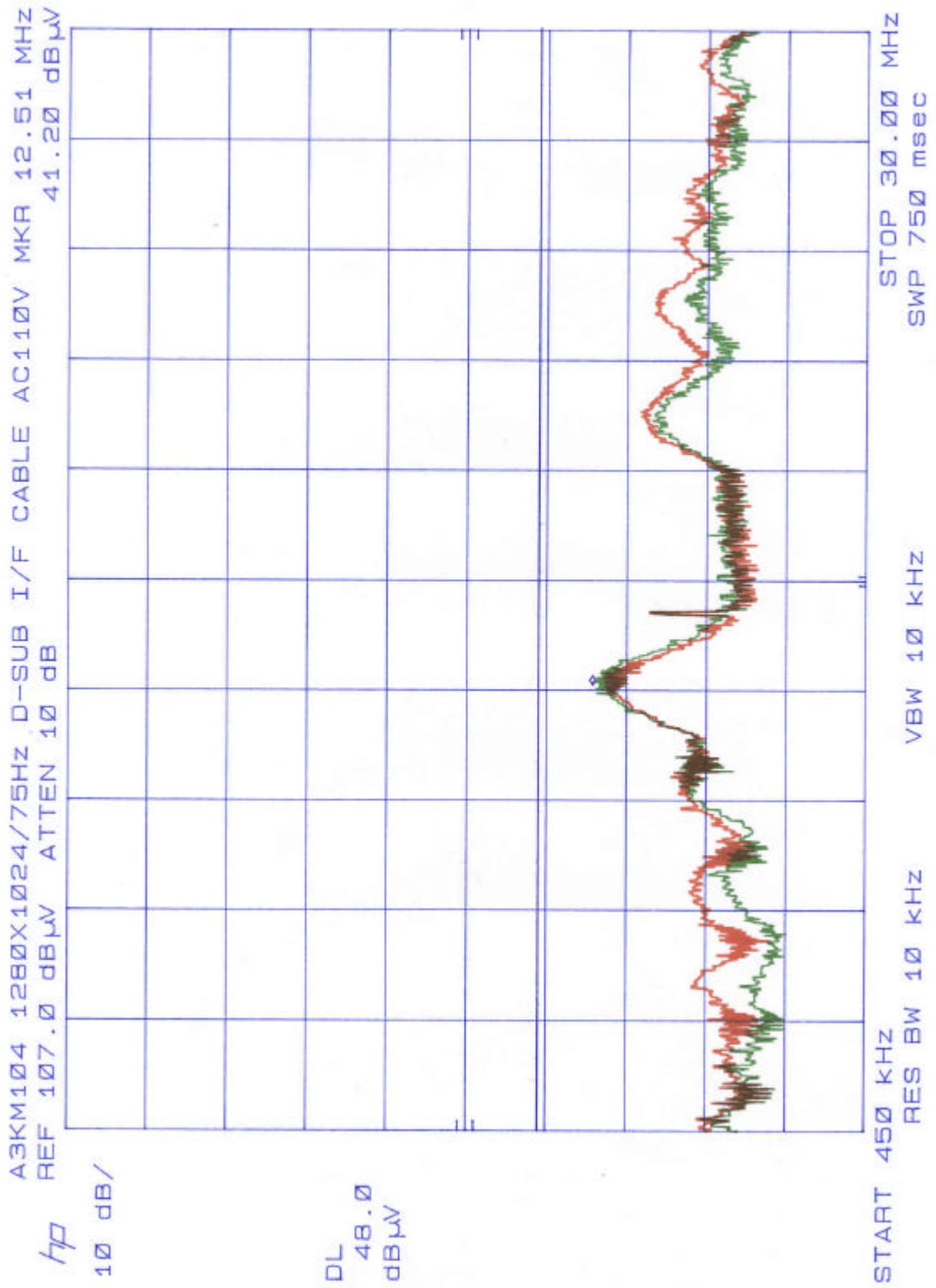
The spectrum was scanned from 30MHz to 1000MHz and the significant emissions were recorded.
Test distance between device under test and receiving antenna was 3-meter.
Sample of calculation:
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuv/m)

Tested by: C.C.Wu Checked by: K.J.Hsu

EMI Technician MC Engineer
NVLAP Signatory


RFI EMISSION LEVEL dBuv/m
AUG/13/2001
REPORT NO: EMI01-030
MODEL NO: 170B2
MHz READING LIMIT
MAX.POINT: 448.64 42.476 46
FCC CLASS B
80
70
60
50
40
30
20
30 MHz
100
1000
TESTED BY: C.C.Hu


A3KM104 1280X1024/75Hz D-SUB I/F CABLE AC220V MKR 12.60 MHz
REF 107.0 dBµV ATTEN 10 dB 39.30 dBµV
10 dB/
DL 48.0 dBµV
START 450 kHz
RES BW 10 kHz
VBW 10 kHz
STOP 30.00 MHz
SWP 750 msec


A3KM104 1280X1024/75Hz D-SUB I/F CABLE AC110V MKR 12.51 MHz
41.20 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
DL
48.0
dBµV
START 450 kHz
RES BW 10 kHz
VBW 10 kHz
STOP 30.00 MHz
SWP 750 msec

FCC TEST REPORT

Report No. : EMI01-030A
Tested Date: Aug./15/2001

Test Performed By
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Tel.: + 886-3-454-9862 Fax.: +886-3-454-9887

Manufacturer : Philips Business Electronics

Tested System:

1. EUT : Philips 170B2 LCD color monitor s/n: TY0104030
   FCC ID : A3KM104
2. Computer : Compaq ENC-P733 s/n: 6040DYSZE404
   FCC ID : FCC Logo
3. Keyboard : Compaq KB-9963 s/n: B26950GGALP13Q
   FCC ID : FCC Logo
4. Mouse : M-S48A s/n: F2240H5BLN0AQ
   FCC ID : JNZ201213
5. Modem : USRoboties 268 s/n: 002680559278575
   FCC ID : CJE-0318
6. Printer : HP2225C s/n: 3123S97227
   FCC ID : DSI6XU2225
7. Video Card : ATI RADEON AGP s/n: n/a
   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.
80.0KHz mode (1280x1024/75Hz) was tested.
DVI to DVI 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)
67.62	28.54	27.65	40.0
68.37	23.34	33.84	40.0
135.23	30.35	32.45	43.5
160.23	34.2	33.7	43.5
192.27	33.02	29.72	43.5
256.35	39.6	37.3	46.0
320.45	37.88	35.88	46.0
336.48	35.86	34.16	46.0
384.54	36.96	38.75	46.0
405.69	36.27	36.17	46.0
464.62	39.36	36.46	46.0

480.66	36.29	39.19	46.0
515.46	36.92	37.82	46.0
576.8	36.72	37.62	46.0
640.9	37.54	38.94	46.0
644.33	38.26	39.66	46.0
672.96	41.66	42.86	46.0
961.35	44.76	44.27	54.0
980.34	45.7	45.5	54.0

Spectrum Analyzer Setting:
RBW: 100KHz
VBW: 100KHz

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

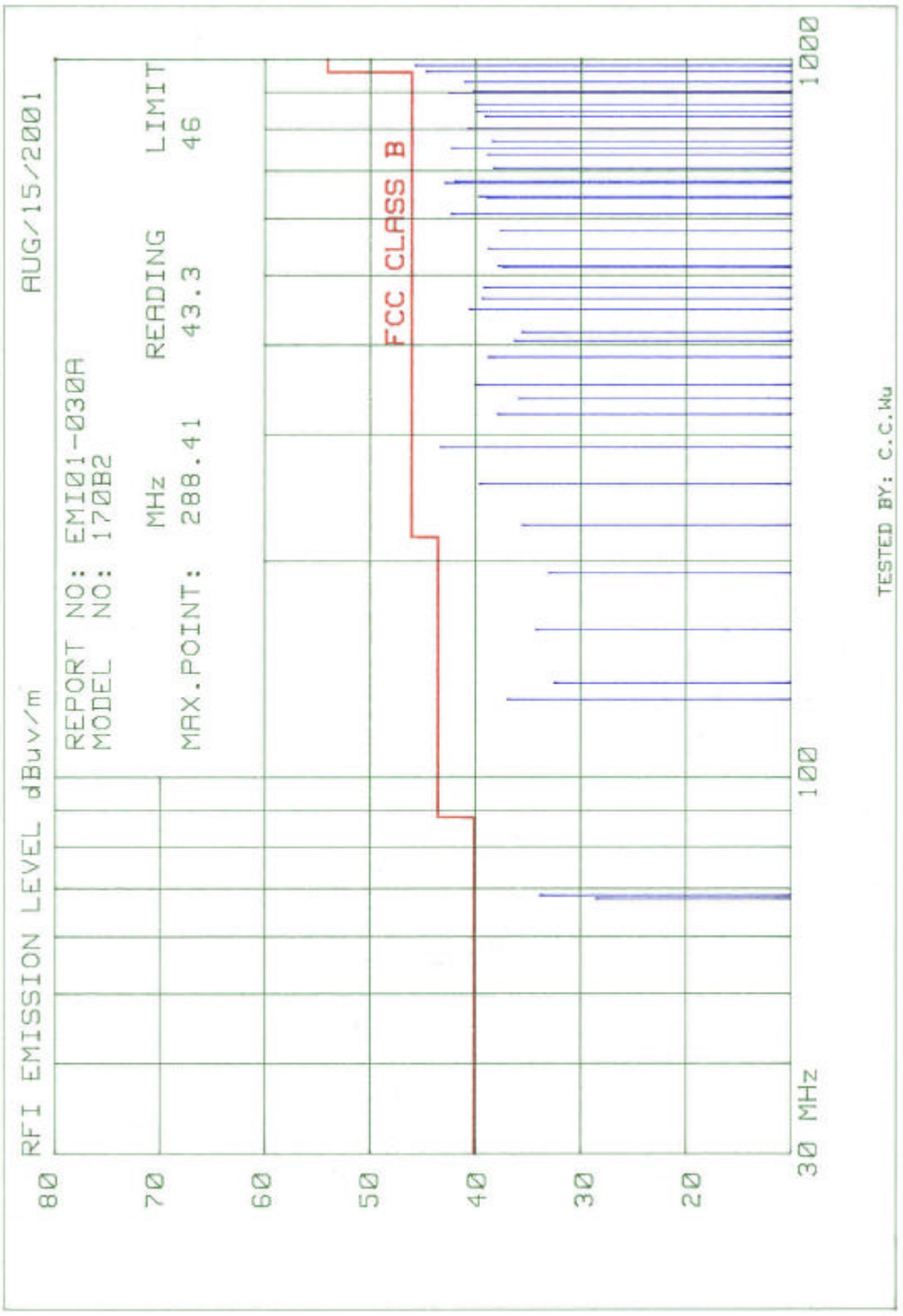
Radiated RF Level – QP Value

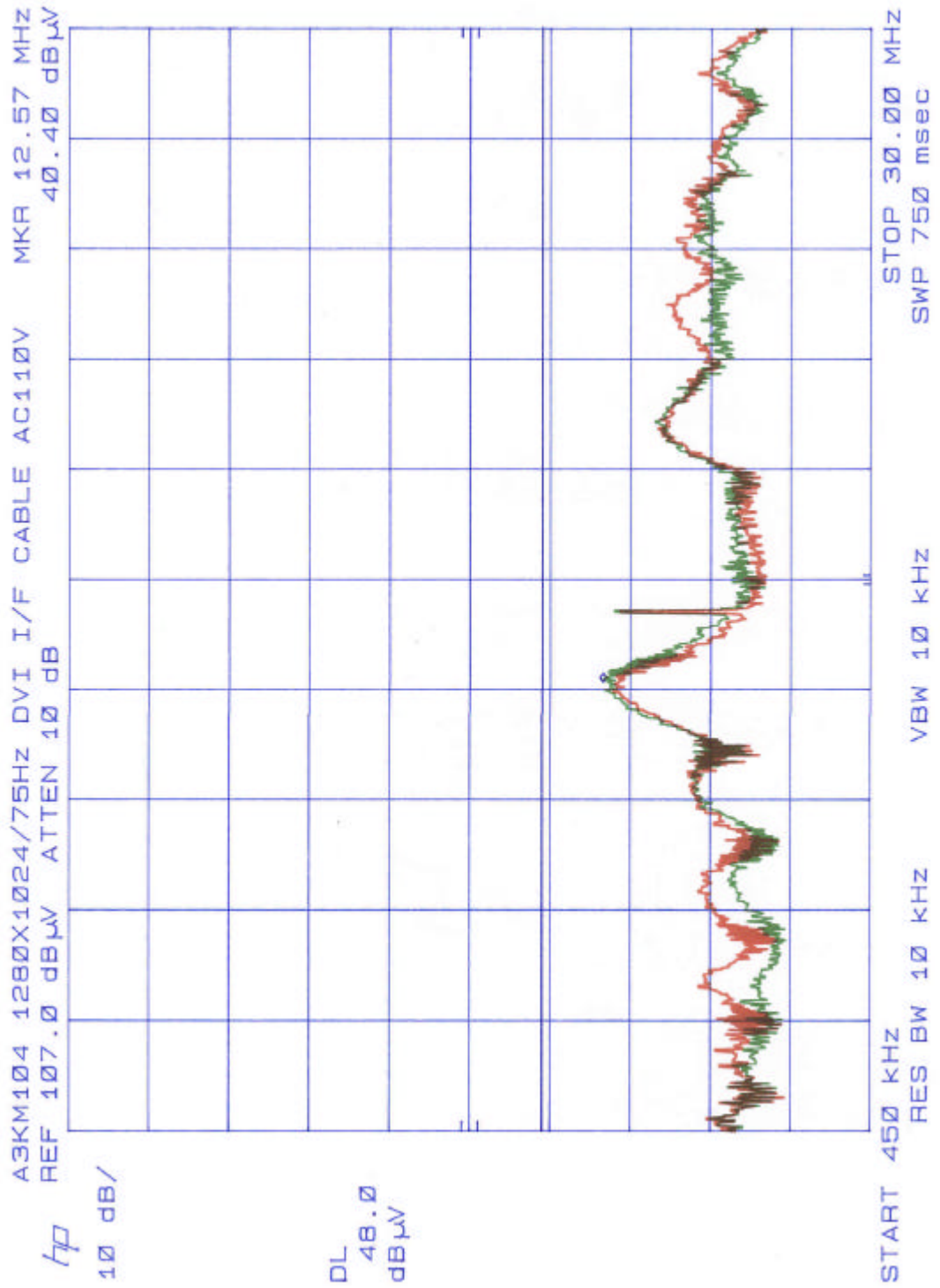
Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
128.19	36.54	36.94	43.5
288.41	43.3	42.8	46.0
352.49	40.0	36.5	46.0
448.64	37.37	40.57	46.0
544.76	38.38	38.78	46.0
608.86	40.58	42.28	46.0
676.16	41.92	41.02	46.0
705.0	38.28	37.08	46.0
737.04	36.45	38.85	46.0
753.0	39.14	42.24	46.0
769.08	36.1	38.4	46.0
801.13	40.31	40.71	46.0
833.17	36.52	39.12	46.0
845.15	39.92	38.92	46.0
865.23	38.66	40.06	46.0
897.27	39.18	42.48	46.0
902.06	37.3	40.2	46.0
929.31	38.74	41.04	46.0

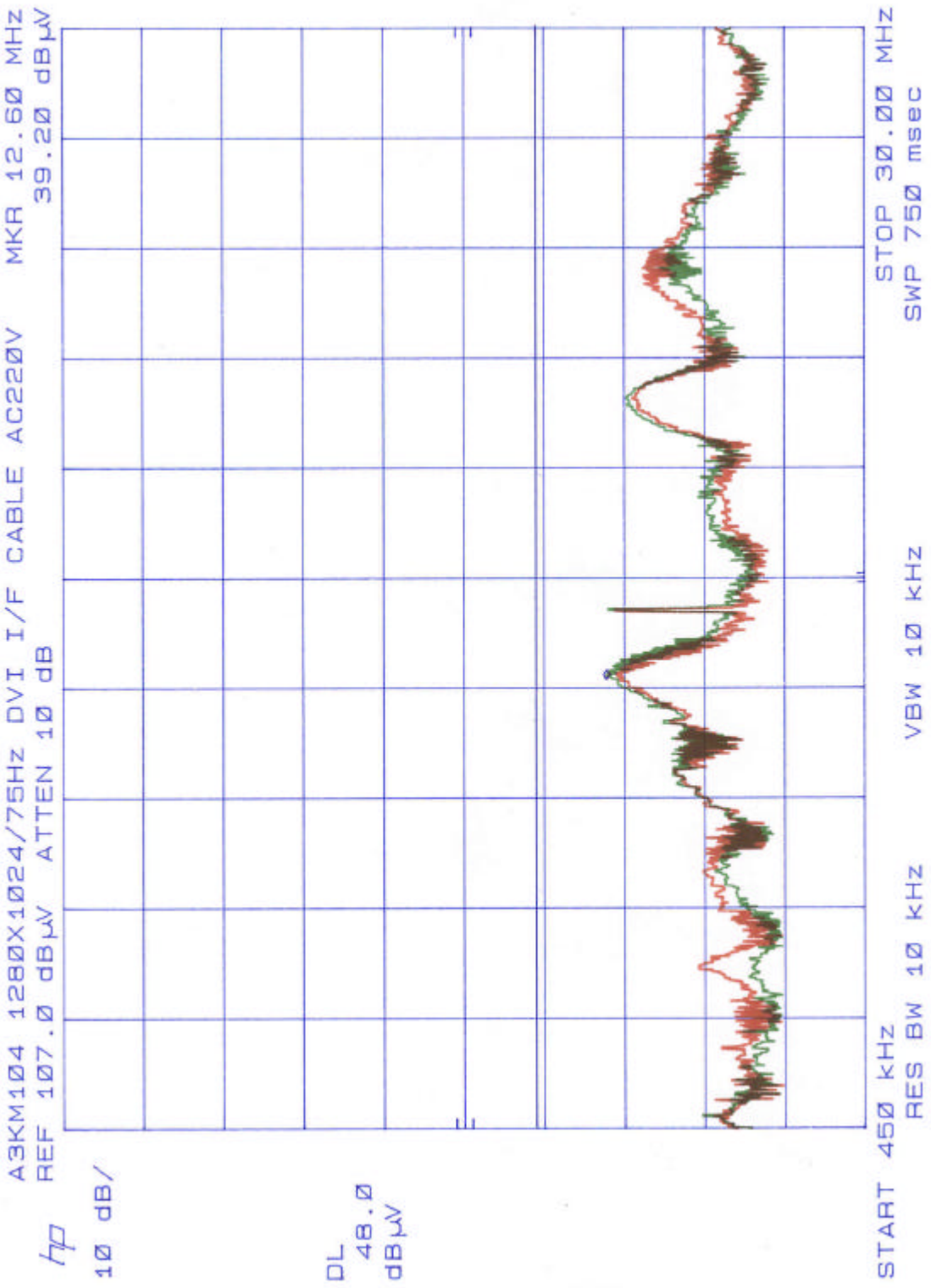
The spectrum was scanned from 30MHz to 1000MHz and the significant emissions were recorded.
Test distance between device under test and receiving antenna was 3-meter.
Sample of calculation:
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuv/m)

Tested by: C.C.Wu — EMI Technician

Checked by: K.J.Hsu — MC Engineer
NVLAP Signatory


RFI EMISSION LEVEL dBuv/m
AUG/15/2001
REPORT NO: EMI01-030A
MODEL NO: 170B2
MHz READING LIMIT
MAX.POINT: 288.41 43.3 46
FCC CLASS B
80
70
60
50
40
30
20
30 MHz
100
1000
TESTED BY: C.C.Wu


A3KM104 1280X1024/75Hz DVI I/F CABLE AC110V
MKR 12.57 MHz
40.40 dBµV
REF 107.0 dBµV
ATTEN 10 dB
10 dB/
DL
48.0
dBµV
START 450 kHz
RES BW 10 kHz
VBW 10 kHz
STOP 30.00 MHz
SWP 750 msec


A3KM104 1280X1024/75Hz DVI I/F CABLE AC220V
MKR 12.60 MHz
39.20 dBµV
REF 107.0 dBµV
ATTEN 10 dB
10 dB/
DL
48.0
dBµV
START 450 kHz
RES BW 10 kHz
VBW 10 kHz
STOP 30.00 MHz
SWP 750 msec

FCC TEST REPORT

Report No. : EMI01-030B
Tested Date: Aug./18/2001

Test Performed By
Philips Electronics Industries (Taiwan) Ltd.
Business Electronics
EMC Lab.
No. 5, Tze Chiang 1 Road,
Chungli, Taoyuan, Taiwan, R.O.C.
Tel.: + 886-3-454-9862 Fax.: +886-3-454-9887

Manufacturer : Philips Business Electronics

Tested System:

1. EUT : Philips 170B2 LCD color monitor s/n: TY0104030
   FCC ID : A3KM104
2. Computer : Compaq ENC-P733 s/n: 6040DYSZE404
   FCC ID : FCC Logo
3. Keyboard : Compaq KB-9963 s/n: B26950GGALP13Q
   FCC ID : FCC Logo
4. Mouse : M-S48A s/n: F2240H5BLN0AQ
   FCC ID : JNZ201213
5. Modem : USRoboties 268 s/n: 002680559278575
   FCC ID : CJE-0318
6. Printer : HP2225C s/n: 3123S97227
   FCC ID : DSI6XU2225
7. Video Card : ATI RADEON AGP s/n: n/a
   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 to DVI 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)
67.79	24.44	32.24	40.0
160.23	34.2	32.9	43.5
169.03	28.07	28.27	43.5
192.27	33.82	30.22	43.5
224.31	32.58	33.68	46.0
236.65	36.65	35.05	46.0
256.36	38.4	36.1	46.0
320.45	36.38	36.78	46.0
352.49	35.6	36.2	46.0
384.55	35.66	39.96	46.0

416.59	32.7	35.6	46.0
480.67	38.19	38.59	46.0
512.71	34.8	37.3	46.0
544.76	36.88	36.48	46.0
576.82	37.82	38.32	46.0
608.86	36.98	38.58	46.0
640.9	36.84	37.54	46.0
737.04	39.65	38.95	46.0
961.35	43.47	44.17	54.0

Spectrum Analyzer Setting:
RBW: 100KHz
VBW: 100KHz

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

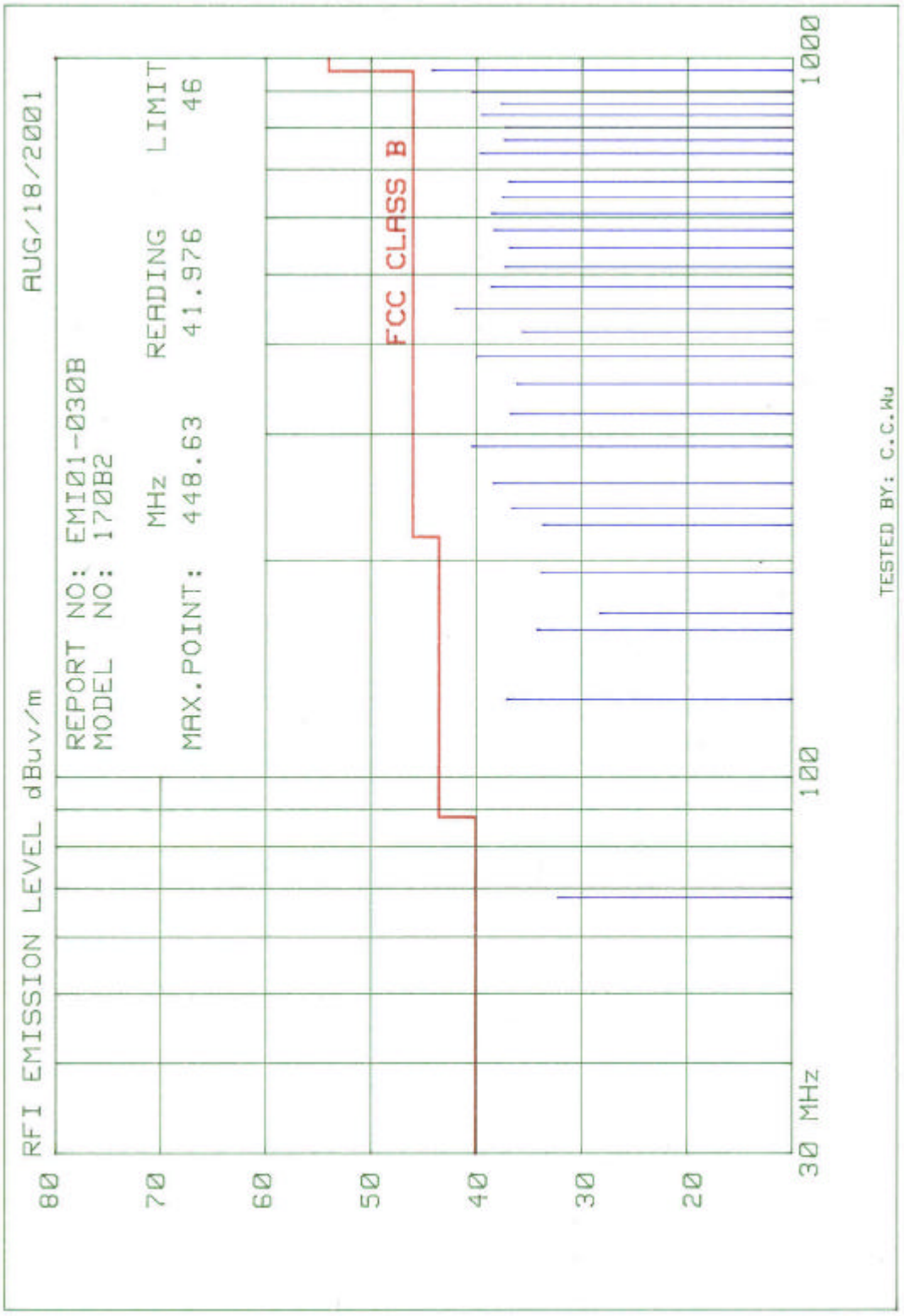
Radiated RF Level – QP Value

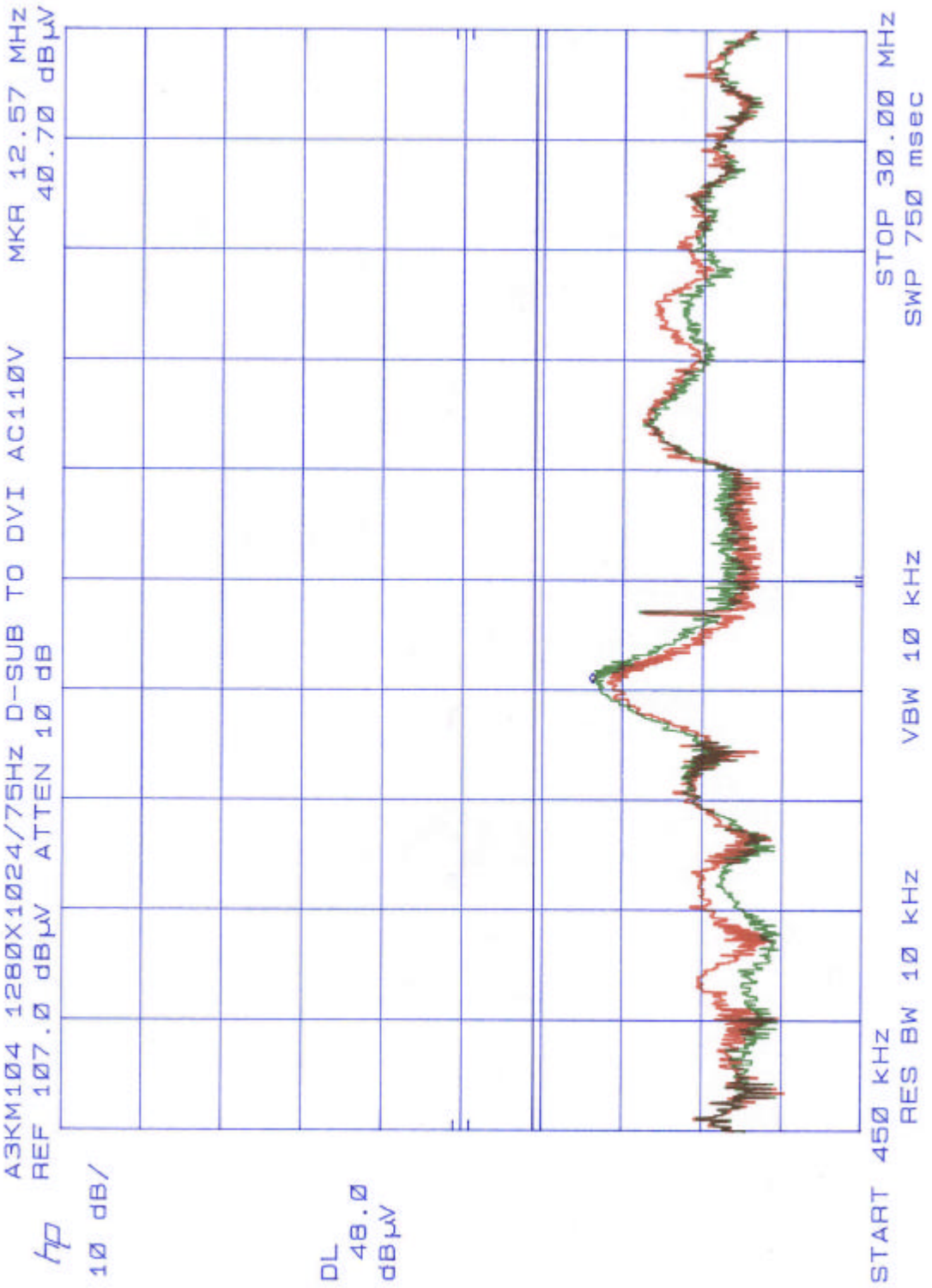
Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
128.18	37.04	36.34	43.5
288.41	40.4	39.3	46.0
488.63	36.87	41.97	46.0
672.94	35.16	36.96	46.0
769.08	35.3	37.4	46.0
801.12	36.21	37.21	46.0
833.18	37.22	39.52	46.0
865.23	37.66	37.46	46.0
897.27	39.08	40.38	46.0

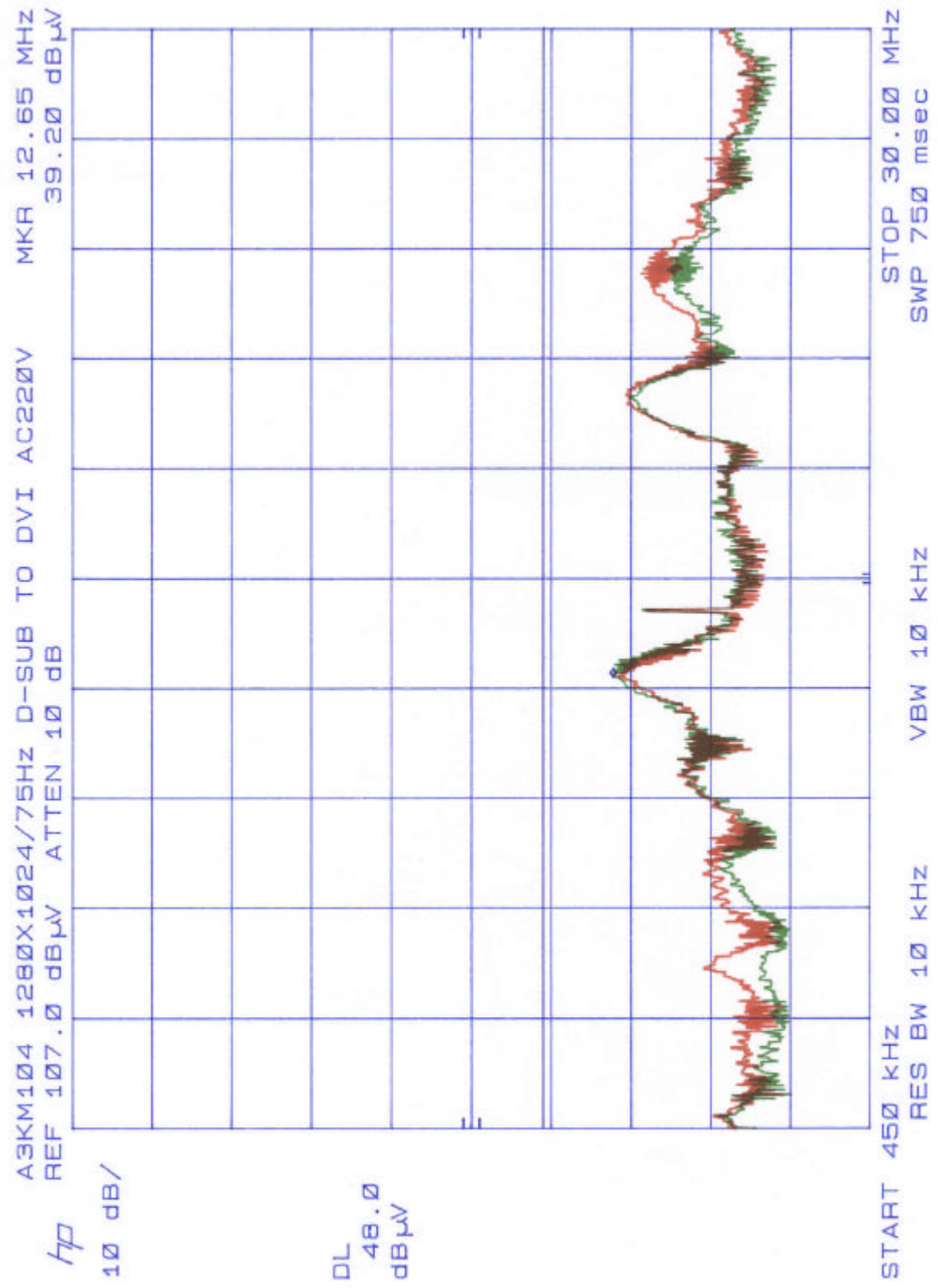
The spectrum was scanned from 30MHz to 1000MHz and the significant emissions were recorded.
Test distance between device under test and receiving antenna was 3-meter.
Sample of calculation:
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuv/m)

Tested by: C.C.Wu Checked by: K.J.Hsu

EMI Technician MC Engineer
NVLAP Signatory


RFI EMISSION LEVEL dBuv/m
AUG/18/2001
REPORT NO: EMI01-030B
MODEL NO: 170B2
MHz READING LIMIT
MAX.POINT: 448.63 41.976 46
FCC CLASS B
80
70
60
50
40
30
20
30 MHz
100
1000
TESTED BY: C.C.Wu


A3KM104 1280X1024/75Hz D-SUB TO DVI AC110V
REF 107.0 dBµV ATTEN 10 dB
MKR 12.57 MHz
40.70 dBµV
10 dB/
DL
48.0
dBµV
START 450 kHz
RES BW 10 kHz
VBW 10 kHz
STOP 30.000 MHz
SWP 750 msec


A3KM104 1280X1024/75Hz D-SUB TO DVI AC220V
MKR 12.65 MHz
39.20 dBµV
REF 107.0 dBµV
ATTEN 10 dB
10 dB/
DL
48.0
dBµV
START 450 kHz
RES BW 10 kHz
VBW 10 kHz
STOP 30.000 MHz
SWP 750 msec