

FCC TEST REPORT

Report No. : EMI00-024

Tested Date: July/14/00

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 : 170B1 color monitor s/n: TY0004024
FCC ID : A3KM098
- 2. Computer : Artist PII 450 s/n: 4037130003
FCC ID : FCC Logo
- 3. Keyboard : MV-3000-R/M s/n: G-006713-K49
FCC ID : GDDQ81-3000
- 4. Mouse : Logitech M-S35 s/n: LZA48813108
FCC ID : DZL211029
- 5. Modem : USRobotics 268 s/n: 002680559278575
FCC ID : CJE-0318
- 6. Printer : HP2225C s/n: 3123S97227
FCC ID : DSI6XU2225
- 7. Video Card : ATI Range 128 PRO s/n: 024035
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 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)
43.19	25.02	27.52	40.0
54.01	33.54	30.84	40.0

67.49	29.61	31.21	40.0
115.18	35.2	35.0	43.5
129.6	35.8	35.6	43.5
144.0	35.8	ambient	43.5
158.39	37.0	34.3	43.5
172.8	34.69	31.79	43.5
201.59	34.7	34.7	43.5
244.079	36.4	37.8	46.0
259.19	34.35	35.75	46.0
273.59	34.36	34.66	46.0
302.4	30.30	33.0	46.0
316.8	29.76	37.56	46.0
331.2	31.14	35.34	46.0
345.58	32.03	35.4	46.0
359.98	32.8	32.9	46.0
374.38	31.0	35.4	46.0
403.18	31.63	37.03	46.0
460.78	36.26	36.66	46.0
489.58	35.18	34.58	46.0
518.39	34.74	35.34	46.0
547.19	34.58	35.88	46.0
575.98	36.61	37.21	46.0
604.78	35.76	36.86	46.0
633.58	37.56	38.26	46.0
748.78	39.31	39.51	46.0
979.18	42.48	43.08	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 – Quasi-Peak Value

Frequency (MHz)	Horizontal (dB μ V/m)	Vertical (dB μ V/m)	FCC/B Limit (dB μ V/m)
48.0	37.12	37.22	40.0
57.6	33.18	36.88	40.0
72.0	37.26	34.36	40.0
83.22	34.65	34.55	40.0
215.9	37.58	37.78	43.5
230.39	39.5	41.4	46.0
288.0	37.4	39.2	46.0
691.18	36.78	39.58	46.0
719.98	38.02	43.12	46.0
835.18	36.96	36.66	46.0
863.98	40.33	43.93	46.0

FCC ID: A3KM98

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:

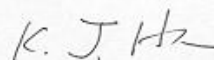
Final value (dBuV/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuV/m)

Tested by:

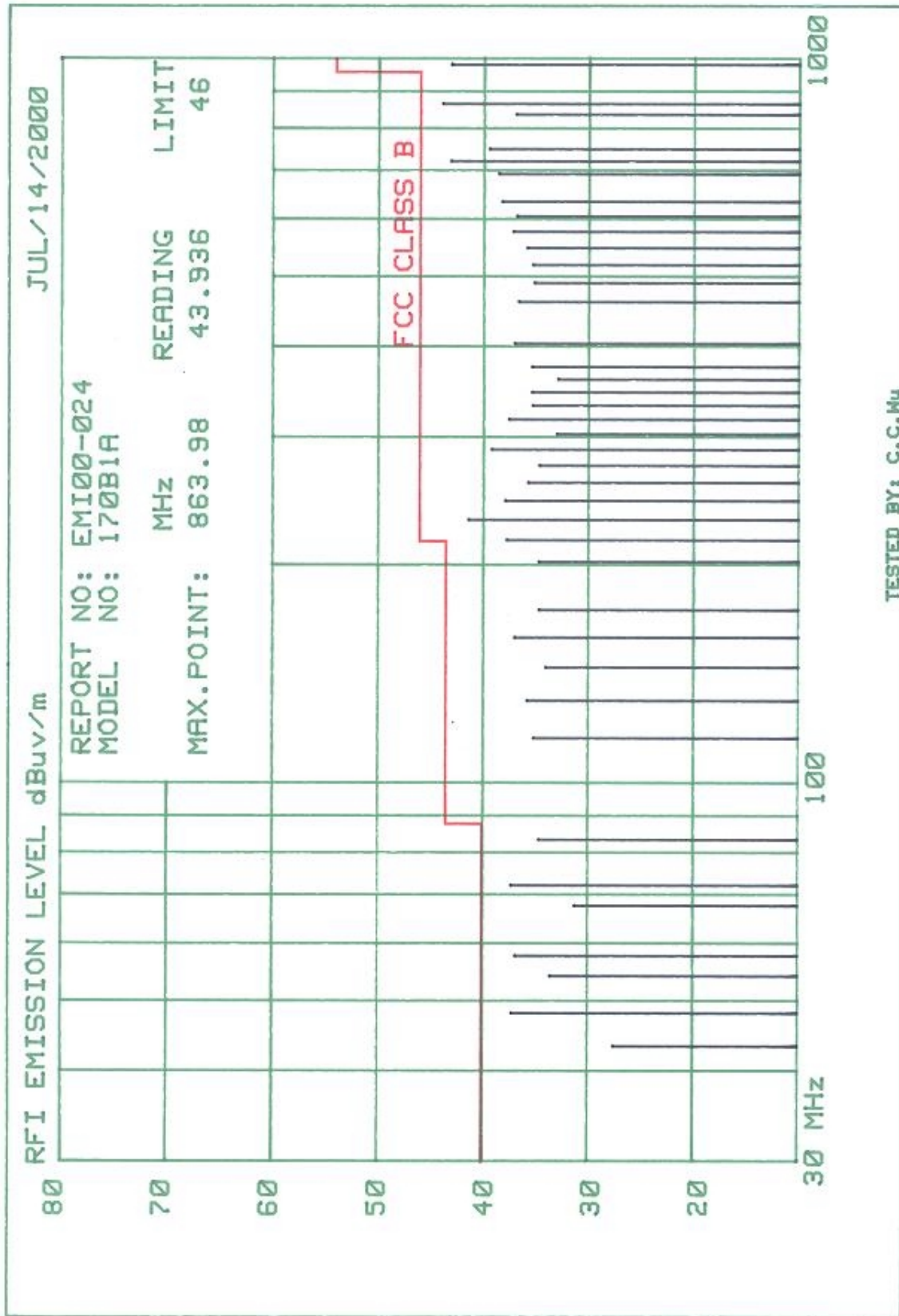


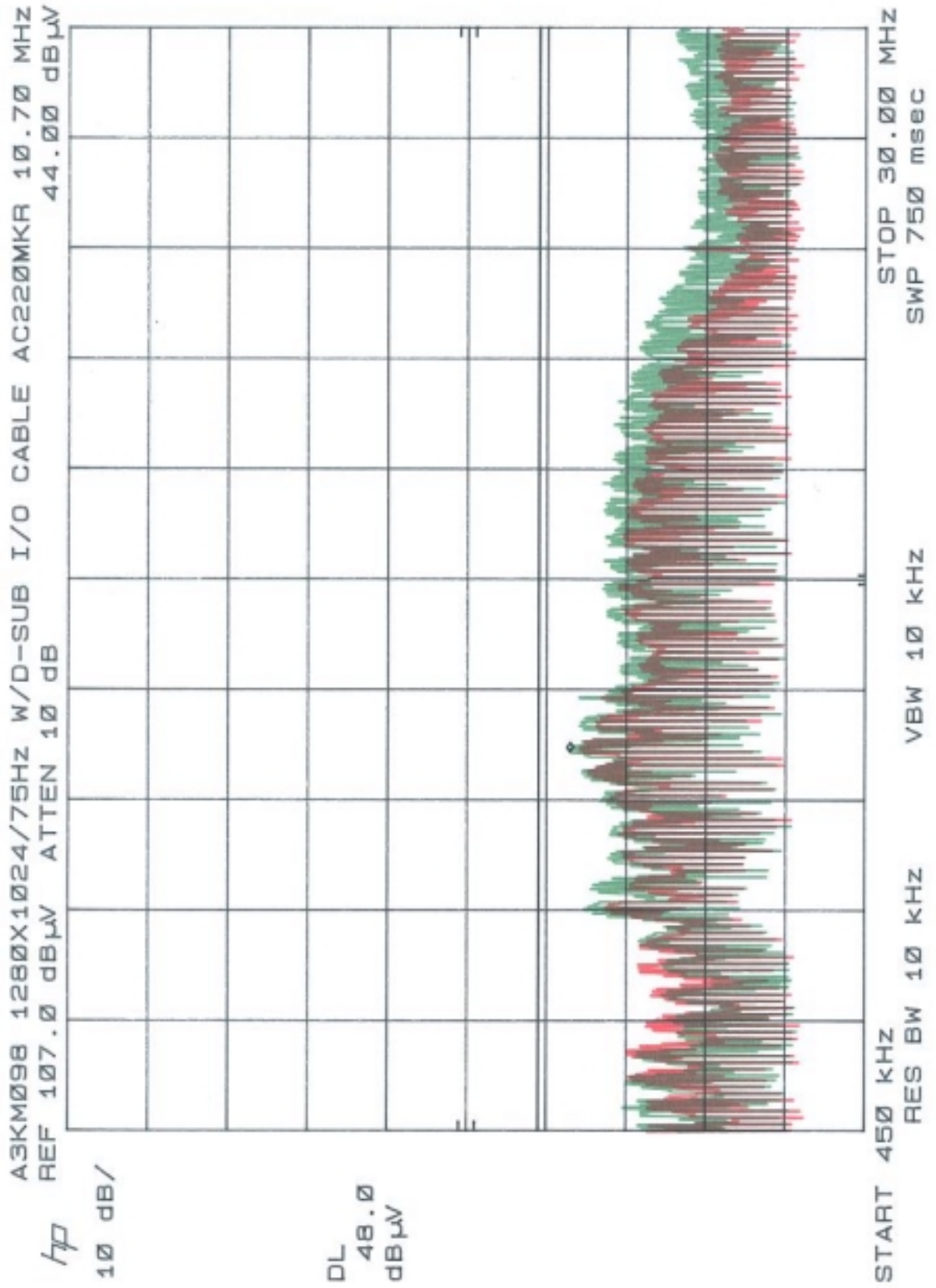
C.C.Wu

Checked by:



K.J.Hsu – EMC Engineer
NVLAP Signatory



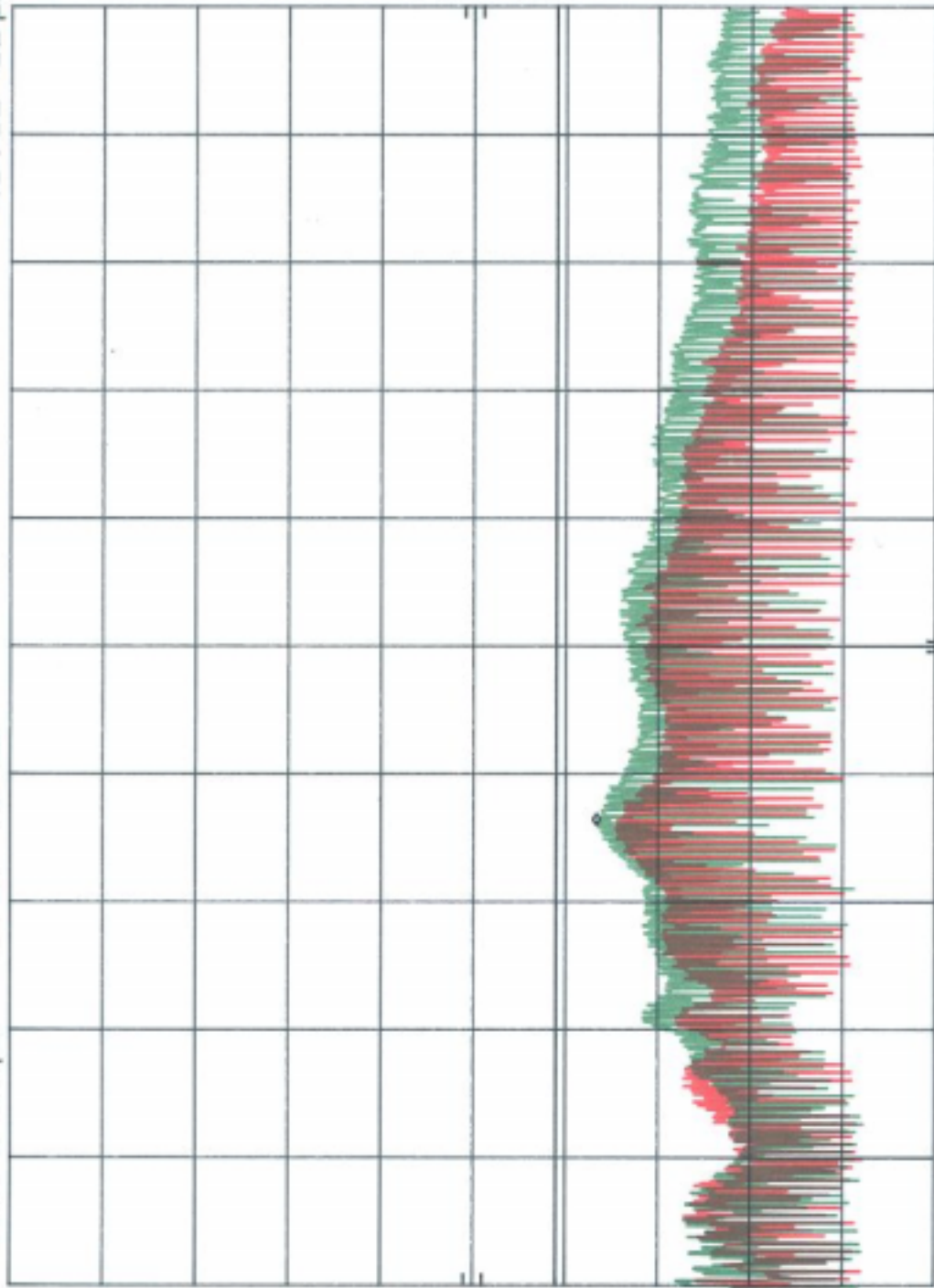


A3KM098 1280X1024/75Hz W/D-SUB I/O CABLE AC110MKR 11.21 MHz
 REF 107.0 dBμV ATTEN 10 dB 43.60 dBμV

hp

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. : EMI00-024A

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- 7. Video Card : ATI Range 128 PRO s/n: 024035
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Note: Test was performed in according with FCC measurement procedure ANSI C63.4-1992
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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)
43.18	28.42	31.12	40.0
54.02	28.14	31.54	40.0

72.0	33.26	31.76	40.0
129.59	34.0	30.8	43.5
133.19	36.23	30.43	43.5
158.39	34.0	30.8	43.5
172.79	35.39	36.49	43.5
198.0	36.18	ambient	43.5
208.8	36.0	ambient	43.5
219.59	39.2	38.6	46.0
230.39	37.4	35.3	46.0
244.79	35.3	35.1	46.0
259.19	34.35	34.75	46.0
288.0	36.1	36.7	46.0
303.75	31.21	31.41	46.0
306.22	33.42	29.42	46.0
316.78	29.66	33.16	46.0
318.24	35.87	30.57	46.0
331.18	32.04	32.34	46.0
345.58	32.9	31.4	46.0
371.28	34.6	36	46.0
396.06	36.75	37.05	46.0
403.18	34.63	34.03	46.0
444.08	33.75	34.25	46.0
460.78	34.56	39.36	46.0
472.54	34.35	36.65	46.0
489.58	33.88	35.78	46.0
518.39	34.94	36.64	46.0
575.98	35.31	37.31	46.0
607.54	37.15	38.45	46.0
615.03	37.78	38.28	46.0
633.58	37.26	39.86	46.0
748.78	39.01	39.03	46.0
978.81	44.38	44.88	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 – Quasi-Peak Value

Frequency (MHz)	Horizontal (dB μ V/m)	Vertical (dB μ V/m)	FCC/B Limit (dB μ V/m)
39.58	31.4	36.2	40.0
46.79	33.08	37.38	40.0
48.01	37.72	36.92	40.0
57.6	30.28	34.78	40.0
61.19	34.23	33.73	40.0
75.58	34.98	28.78	40.0
84.72	37.05	34.75	40.0
115.2	36.3	29.2	43.5

FCC ID: A3KM98

162.0	41.16	35.16	43.5
540.04	43.36	41.16	46.0
641.3	36.34	38.34	46.0
691.19	38.18	40.18	46.0
708.8	40.56	42.26	46.0
719.98	40.52	43.12	46.0
776.3	38.01	37.01	46.0
810.06	43.56	42.56	46.0
843.81	38.4	37.6	46.0
864.0	38.93	38.53	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:

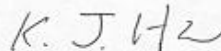
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuv/m)

Tested by:

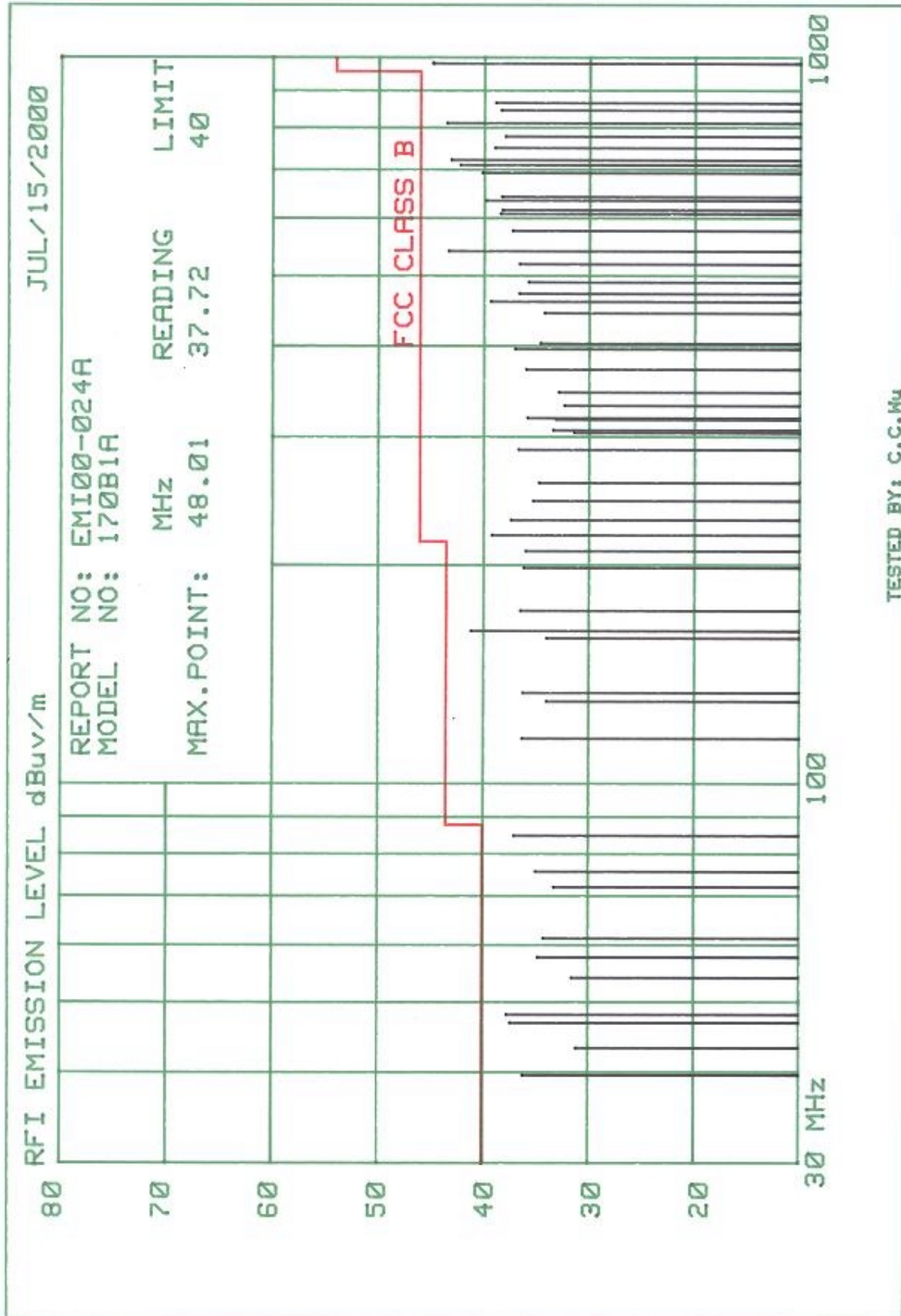


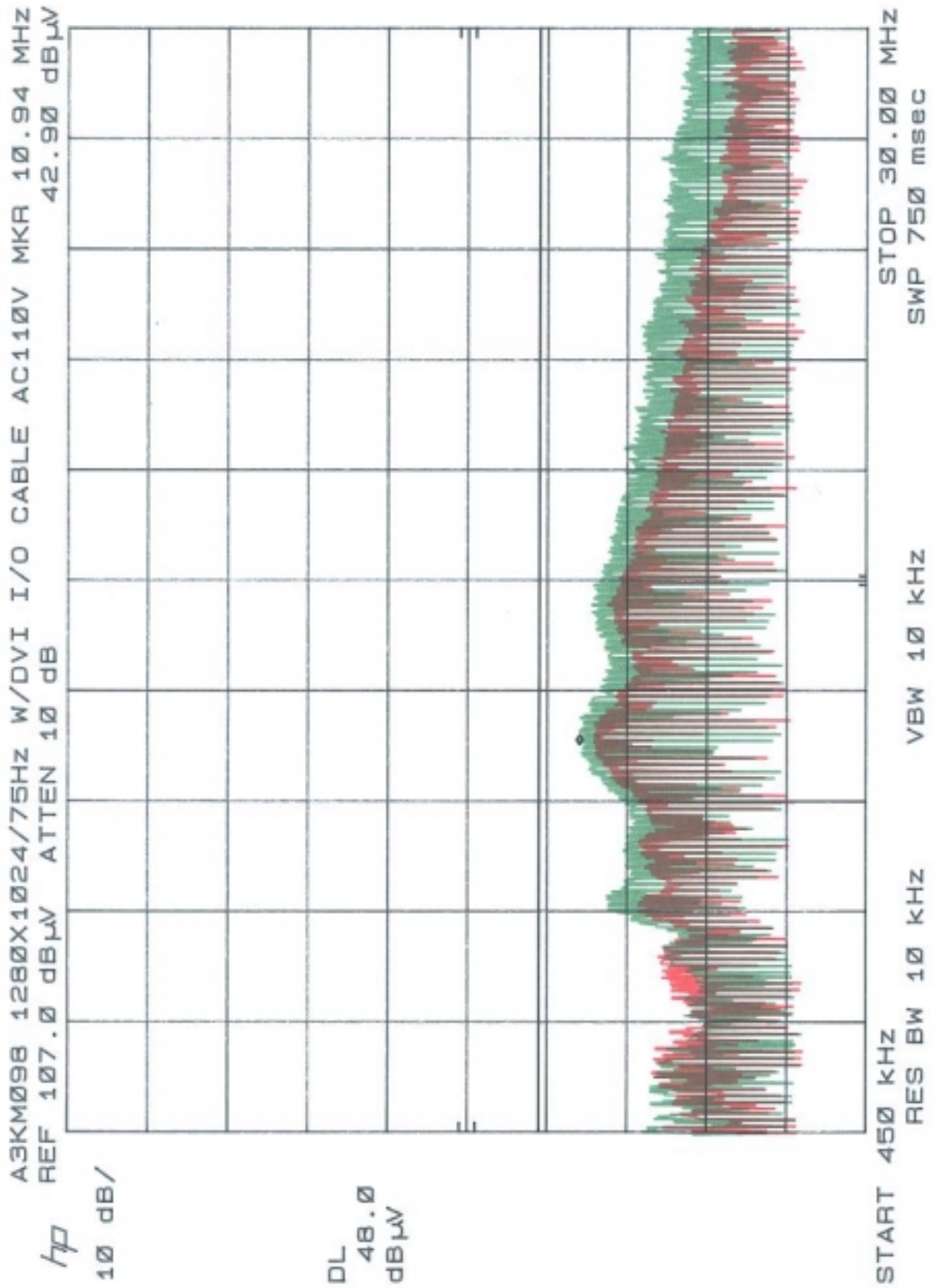
C.C.Wu

Checked by:



K.J.Hsu – EMC Engineer
NVLAP Signatory



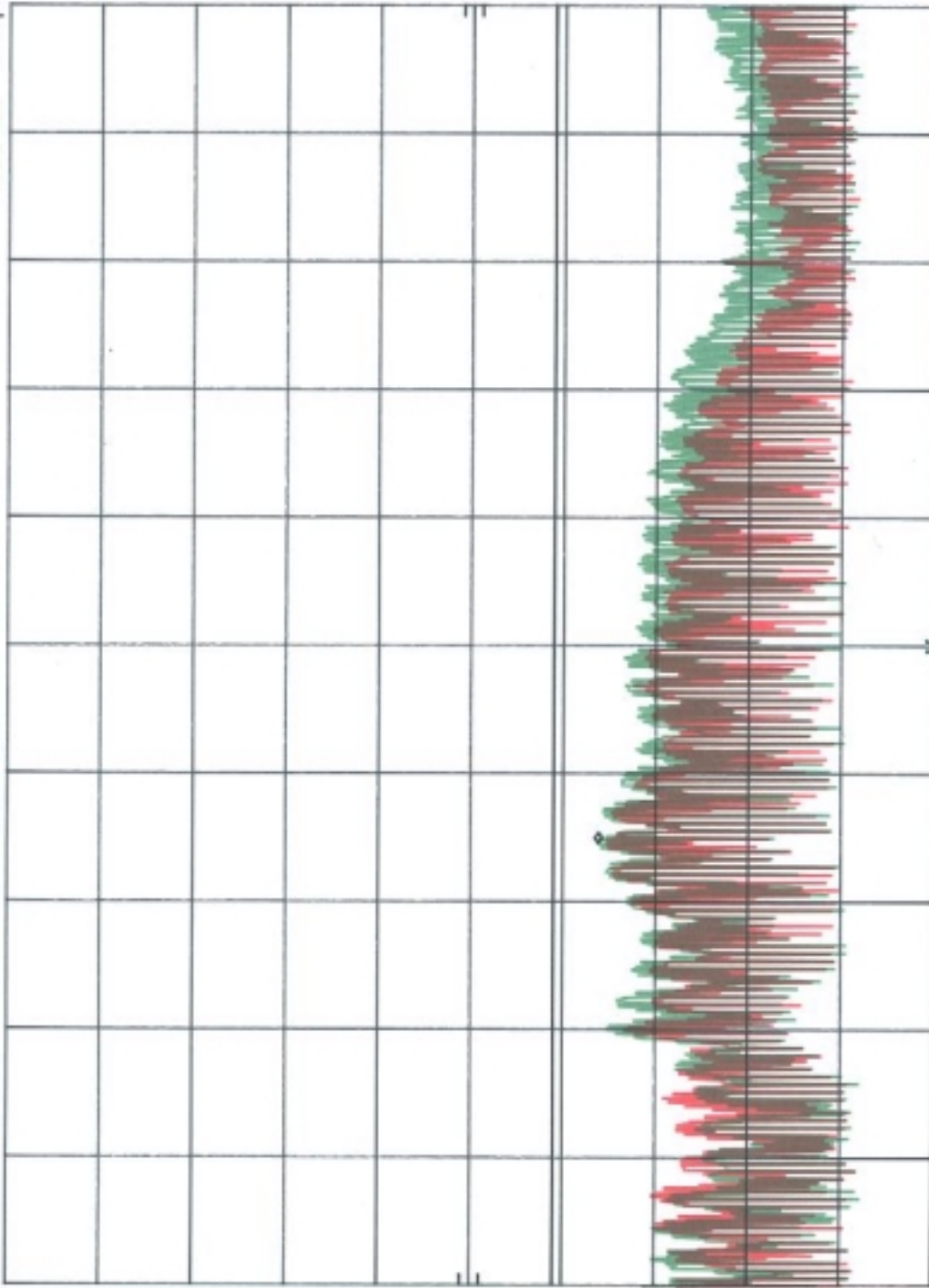


A3KM098 1280X1024/75Hz W/DVI I/O CABLE AC220V MKR 10.76 MHz
 REF 107.0 dBμV ATTEN 10 dB

hp

10 dB/

DL
 48.0
 dBμV



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