



FCC TEST REPORT

REPORT NO.: F90031514A

MODEL NO.: 7Glr, 7Klr, 7Alr, 7Vlr+, 7Vlr

RECEIVED: July 12, 2001

TESTED: July 17 ~ 18, 2001

APPLICANT: TOP VICTORY ELECTRONICS (TAIWAN) CO., LTD.

ADDRESS: 18F, No. 738, Chung Cheng Road, Chung Ho, Taipei Hsien, Taiwan 235

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei, Taiwan, R.O.C.

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0528



Lab Code: 200102-0



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1 CERTIFICATION

PRODUCT: 17" COLOR MONITOR
BRAND NAME: AOC
PART NO.: A791V-3 HS
MODEL NO.: 7Glr, 7Klr, 7Alr, 7Vlr+, 7Vlr
TEST ITEM: ENGINEERING SAMPLE
APPLICANT: TOP VICTORY ELECTRONICS (TAIWAN) CO., LTD.
STANDARDS: FCC Part 15, Subpart B, Class B
CISPR 22: 1997, Class B
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample (model: 7Glr) of the designation has been tested in our facility on July 17 ~ 18, 2001. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

TESTED BY: Martin Lee, **DATE:** July 20, 2001
(Martin Lee)

CHECKED BY: Yemmy Soong, **DATE:** July 20, 2001
(Yemmy Soong)

APPROVED BY: Jonson Lee, **DATE:** July 20, 2001
(Jonson Lee, Manager)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| Standard | Test Type | Result | Remarks |
|------------------------------------|----------------|--------|--|
| FCC Part 15, Subpart B, Class B | Conducted Test | PASS | Meets Class B Limit Minimum passing margin is -12.24 dB at 0.189 MHz |
| CISPR 22: 1997, Class B | Radiated Test | PASS | Meets Class B Limit Minimum passing margin is -2.10 dB at 53.48 MHz |

NOTE: For conducted emission test, the test limit used is according to FCC Part 15.107. In this part, conducted emission test for telecom port is not mentioned and therefore this item is not tested.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|---------------------|---|
| PRODUCT | 17" COLOR MONITOR |
| MODEL NO. | 7Glr, 7Klr, 7Alr, 7Vlr+, 7Vlr |
| PART NO. | A791V-3 HS |
| POWER SUPPLY | Switching Input rating: 100-230V, 2.5A, 50/60Hz Power Cord: Non-shielded, 3 pin, AC (1.8m) |
| DATA CABLE | Shielded (1.8m) with a ferrite core |

NOTE: The EUT is a 17" COLOR MONITOR with resolution up to 1600x1200.

This report is prepared for Class II permissive change. The main change is the addition of one D-sub input function.

The EUT has five models names: 7Glr, 7Klr, 7Alr, 7Vlr and 7Vlr+ which are identical to each other except for their marketing purposes only. For the final test, model: 7Glr was selected as the representative model for the test and its data is recorded in this report.

For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.2 DESCRIPTION OF TEST MODES

The EUT was pre-tested under the following input modes:

- ◆ D-Sub 1
- ◆ D-Sub 2

The worst emission levels were found when the EUT was tested under **D-Sub 1 mode**.

Under **D-Sub1 mode** input resolution, the EUT was pre-tested under the following resolution & horizontal synchronization speed mode:

- ◆ 1600x1200 mode (75Hz/93kHz),
- ◆ 1280x1024 mode (85Hz/91kHz),
- ◆ 640x480 mode (60Hz/31.5kHz)

The worst emission levels were found when the EUT was tested under **1600x1200 (75Hz/93kHz)** resolution.



3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|-------------------|----------|------------|-----------------|------------------|
| 1 | PERSONAL COMPUTER | NTI | PII-450T | P201140 | FCC DoC APPROVED |
| 2 | PRINTER | HP | 2225C+ | 3030S79116 | DSI6XU2225 |
| 3 | MODEM | ACEEX | 1414 | 980020540 | IFAXDM1414 |
| 4 | PS/2 KEYBOARD | FORWARD | FDA-104GA | FDKB811011 2 | F4ZDA-104G |
| 5 | MOUSE | LOGITECH | M-S43 | LZE0070315 0 | DZL211106 |
| 6 | COLOR VGA CARD | CARDEX | CD-GX2A44T | GHF11905 | ICUVGA-GW710 |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | NA |
| 2 | 1.8m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core. |
| 3 | 1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core. |
| 4 | 1.4 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core. |
| 5 | 1.8 m foil shielded wire, terminated with PS2 connector via drain wire, w/o core. |
| 6 | NA |

NOTE: All power cords of the above support units are non shielded (1.8m).



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|-----------------|----------------|---------|----------------|---------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 - 0.5 | 79 | 66 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 73 | 60 | 56 | 46 |
| 5.0 - 30.0 | 73 | 60 | 60 | 50 |

- NOTES:** (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|--|-----------|--------------|------------------|
| ROHDE & SCHWARZ Test Receiver | ESCS30 | 834115/016 | Feb. 21, 2002 |
| ROHDE & SCHWARZ Artificial Mains Network (For EUT) | ESH2-Z5 | 892107/003 | July 10, 2002 |
| ROHDE & SCHWARZ 4-wire ISN | ENY41 | 838119/028 | Dec. 12, 2001 |
| ROHDE & SCHWARZ 2-wire ISN | ENY22 | 837497/018 | Dec. 3, 2001 |
| EMCO L.I.S.N. (For peripherals) | 3825/2 | 9504-2359 | July 10, 2002 |
| Software | Cond-V2J | NA | NA |
| RF cable (JYEBAO) | RG-58A/U | Cable-C03.01 | July 11, 2002 |
| Terminator (For EMCO LISN) | NA | E1-01-300 | Feb. 20, 2002 |
| Terminator (For EMCO LISN) | NA | E1-01-301 | Feb. 20, 2002 |
| Shielded Room | Site 3 | ADT-C03 | NA |
| VCCI Site Registration No. | Site 3 | C-274 | NA |

- NOTE:** 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

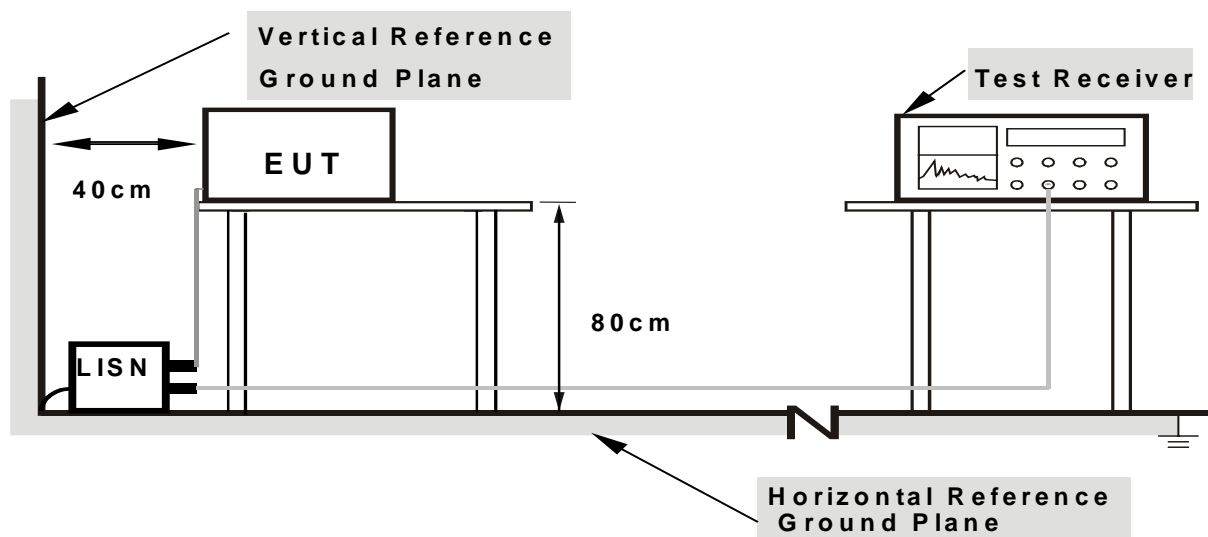
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.



4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power of all equipment.
- b. PC ran a test program to enable all functions.
- c. PC read and wrote messages from FDD and HDD.
- d. PC sent "H" messages to monitor (EUT) and monitor displayed "H" patterns on screen.
- e. PC sent "H" messages to modem.
- f. PC sent "H" messages to printer, and the printer printed them on paper.
- g. Steps c-g were repeated.



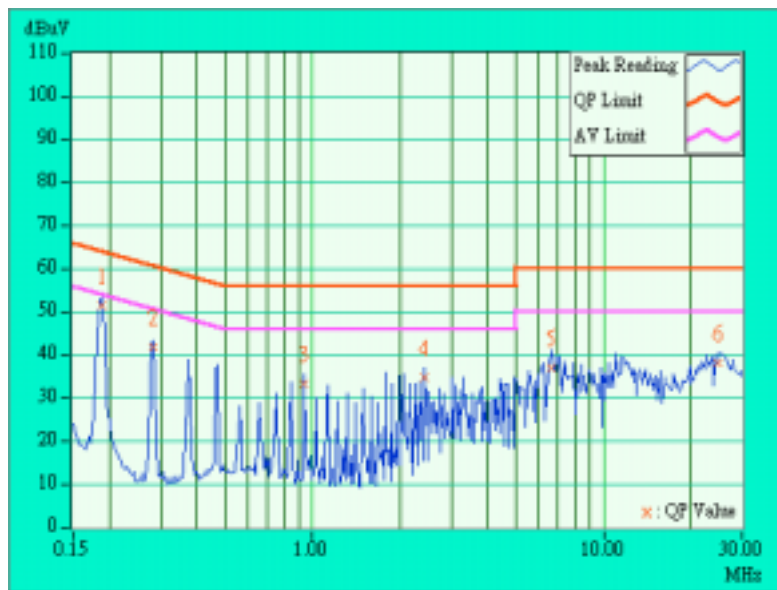
4.1.7 TEST RESULTS

| | | | |
|---------------------------------|---------------------------------|------------------------------|----------|
| EUT | 17" COLOR MONITOR | MODEL NO. | 7Glr |
| MODE | 1600x1200 (75Hz/93kHz) | 6dB BANDWIDTH | 10 kHz |
| INPUT POWER | 120Vac, 60 Hz | PHASE | Line (L) |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 75 % RH, 1005 hPa | TESTED BY: Martin Lee | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.189 | 0.19 | 51.63 | - | 51.82 | - | 64.08 | 54.08 | -12.26 | - |
| 2 | 0.283 | 0.20 | 41.78 | - | 41.98 | - | 60.73 | 50.73 | -18.75 | - |
| 3 | 0.939 | 0.29 | 33.21 | - | 33.50 | - | 56.00 | 46.00 | -22.50 | - |
| 4 | 2.438 | 0.32 | 34.69 | - | 35.01 | - | 56.00 | 46.00 | -20.99 | - |
| 5 | 6.656 | 0.49 | 37.14 | - | 37.63 | - | 60.00 | 50.00 | -22.37 | - |
| 6 | 24.938 | 1.20 | 38.31 | - | 39.51 | - | 60.00 | 50.00 | -20.49 | - |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



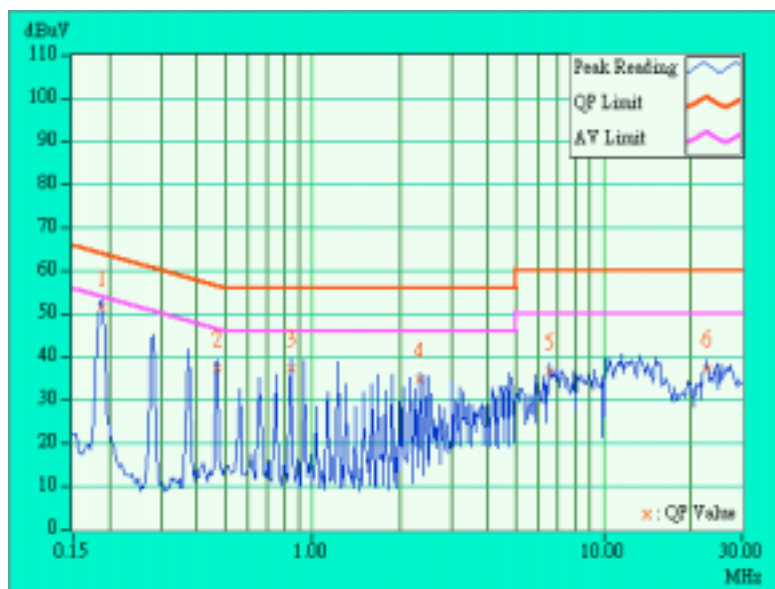


| | | | |
|---------------------------------|---------------------------------|------------------------------|-------------|
| EUT | 17" COLOR MONITOR | MODEL NO. | 7Glr |
| MODE | 1600x1200 (75Hz/93kHz) | 6dB BANDWIDTH | 10 kHz |
| INPUT POWER | 120Vac, 60 Hz | PHASE | Neutral (N) |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 75 % RH, 1005 hPa | TESTED BY: Martin Lee | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|----------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|-------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.189 | 0.19 | 51.65 | - | 51.84 | - | 64.08 |
| 2 | 0.470 | 0.21 | 37.50 | - | 37.71 | - | 56.51 | 46.51 | -18.80 | - |
| 3 | 0.845 | 0.27 | 37.40 | - | 37.67 | - | 56.00 | 46.00 | -18.33 | - |
| 4 | 2.344 | 0.32 | 34.76 | - | 35.08 | - | 56.00 | 46.00 | -20.92 | - |
| 5 | 6.563 | 0.44 | 36.52 | - | 36.96 | - | 60.00 | 50.00 | -23.04 | - |
| 6 | 22.570 | 0.75 | 37.42 | - | 38.17 | - | 60.00 | 50.00 | -21.83 | - |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT FOR FREQUENCY BELOW 1000 MHz

| FREQUENCY (MHz) | Class A (at 10m) | Class B (at 10m) |
|-----------------|------------------|------------------|
| | dBuV/m | dBuV/m |
| 30 – 230 | 40 | 30 |
| 230 - 1000 | 47 | 37 |

LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

| FREQUENCY (MHz) | Class A (dBuV/m) (at 3m) | | Class B (dBuV/m) (at 3m) | |
|-----------------|--------------------------|---------|--------------------------|---------|
| | PEAK | AVERAGE | PEAK | AVERAGE |
| Above 1000 | 80.0 | 60.0 | 74.0 | 54.0 |

- Note:** (1) The lower limit shall apply at the transition frequencies.
 (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
 (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|------------------------------------|----------------------|--------------------------|------------------|
| HP Spectrum Analyzer | 8590L | 3544A00941 | Nov. 29, 2001 |
| HP Pre-Amplifier | 8447D | 2944A08312 | Sept. 15, 2001 |
| * HP Preamplifier | 8449B | 3008A01201 | Dec. 13, 2001 |
| * HP Preamplifier | 8449B | 3008A01292 | Aug. 21, 2001 |
| * R&S Receiver | ESVS10 | 844594/010 | Oct. 2, 2001 |
| SCHWARZBECK Tunable Dipole Antenna | VHA 9103 UHA 9105 | E101051 E101055 | Nov. 23, 2001 |
| * ROHDE & SCHWARZ TEST RECEIVER | ESMI | 839013/007 839379/002 | Jan. 25, 2002 |
| * CHASE BILOG Antenna | CBL6111A | 1500 | Aug. 31, 2001 |
| * SCHWARZBECK Horn Antenna | BBHA9120-D1 | D130 | July 6, 2002 |
| * EMCO Horn Antenna | 3115 | 9312-4192 | April 15, 2002 |
| * EMCO Turn Table | 1060-04 | 1196 | NA |
| * EMCO Tower | 1051 | 1264 | NA |
| * Software | AS61D3 | NA | NA |
| * ANRITSU RF Switches | MP59B | M06089 | Aug. 31, 2001 |
| * TIMES RF cable | LMR-600 | CABLE-ST1-01 | Aug. 31, 2001 |
| Open Field Test Site | Site 1 | ADT-R01 | June 15, 2002 |
| VCCI Site Registration No. | Site 1 | R-236 | NA |

NOTE: 1. The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.

2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

3. "*" = These equipment are used for the final measurement.

4.2.3 TEST PROCEDURE

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10-meter open field site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field

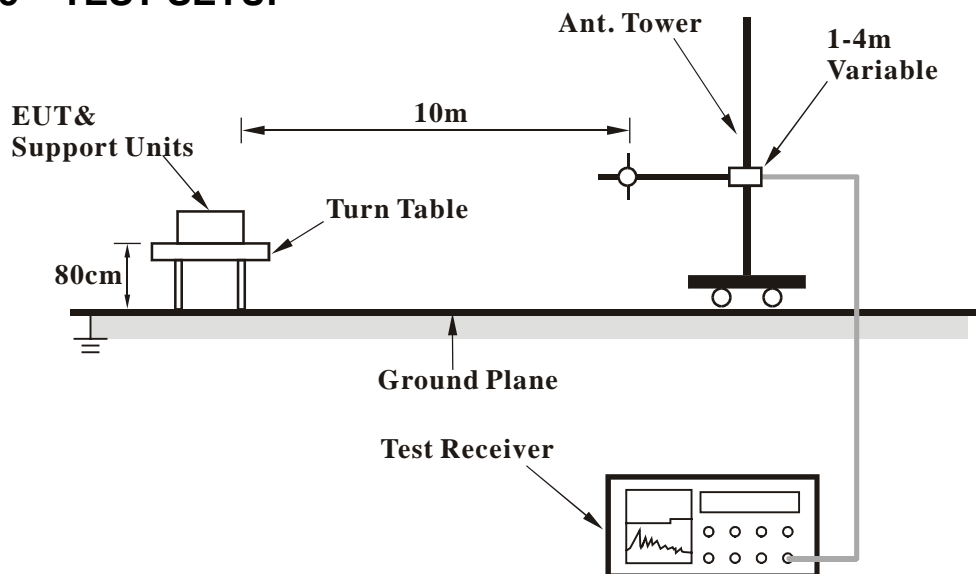
strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi- peak method or average method as specified and then reported In Data sheet peak mode and QP mode.
- g. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the interference antenna and the detect function was set to Peak or Average.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS

| | | | |
|---------------------------------|---------------------------------|--|----------------------------------|
| EUT | 17" COLOR MONITOR | MODEL NO. | 7Glr |
| MODE | 1600x1200 (75Hz/93kHz) | FREQUENCY RANGE | 30-2000 MHz |
| INPUT POWER | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Quasi-Peak, 120kHz Peak, 1MHz |
| ENVIRONMENTAL CONDITIONS | 35 deg. C, 75 % RH, 1005 hPa | TESTED BY: Martin Lee | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M | | | | | | | | | | | | |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|-----------------------|-------------------|--------------------|--------------------------|--|
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-Amp. Gain (dB) | Correction Factor (dB/m) | |
| 1 | 33.75 | 19.8 QP | 30.00 | -10.20 | 4.01H | 235 | 1.80 | 17.43 | 0.57 | 0.00 | -18.00 | |
| 2 | 50.68 | 21.6 QP | 30.00 | -8.40 | 4.01H | 282 | 13.85 | 7.03 | 0.72 | 0.00 | -7.75 | |
| 3 | 67.52 | 20.1 QP | 30.00 | -9.90 | 4.01H | 227 | 14.00 | 5.31 | 0.80 | 0.00 | -6.11 | |
| 4 | 84.36 | 21.9 QP | 30.00 | -8.10 | 4.01H | 249 | 14.15 | 6.85 | 0.90 | 0.00 | -7.75 | |
| 5 | 134.85 | 18.9 QP | 30.00 | -11.10 | 4.01H | 267 | 6.58 | 11.19 | 1.13 | 0.00 | -12.32 | |
| 6 | 151.96 | 21.2 QP | 30.00 | -8.80 | 4.01H | 245 | 9.84 | 10.15 | 1.21 | 0.00 | -11.36 | |
| 7 | 168.72 | 21.3 QP | 30.00 | -8.70 | 4.01H | 260 | 11.25 | 8.74 | 1.30 | 0.00 | -10.05 | |
| 8 | 185.91 | 19.0 QP | 30.00 | -11.00 | 4.01H | 244 | 9.42 | 8.17 | 1.37 | 0.00 | -9.54 | |
| 9 | 202.50 | 24.7 QP | 30.00 | -5.30 | 4.01H | 273 | 14.94 | 8.36 | 1.39 | 0.00 | -9.77 | |
| 10 | 219.29 | 20.5 QP | 30.00 | -9.50 | 4.01H | 262 | 9.57 | 9.42 | 1.47 | 0.00 | -10.90 | |
| 11 | 236.16 | 23.1 QP | 37.00 | -13.90 | 3.47H | 265 | 11.12 | 10.47 | 1.55 | 0.00 | -12.02 | |
| 12 | 439.73 | 22.1 QP | 37.00 | -14.90 | 2.11H | 69 | 3.55 | 16.23 | 2.32 | 0.00 | -18.55 | |
| 13 | 528.15 | 24.2 QP | 37.00 | -12.80 | 2.21H | 221 | 2.82 | 18.64 | 2.70 | 0.00 | -21.34 | |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB/m) = Pre-Amplifier Gain (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
 3. Pre-Amplifier Gain (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 4. The other emission levels were very low against the limit.
 5. Margin value = Emission level – Limit value.



| | | | |
|---------------------------------|---------------------------------|--|----------------------------------|
| EUT | 17" COLOR MONITOR | MODEL NO. | 7Glr |
| MODE | 1600x1200 (75Hz/93kHz) | FREQUENCY RANGE | 30-2000 MHz |
| INPUT POWER | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Quasi-Peak, 120kHz Peak, 1MHz |
| ENVIRONMENTAL CONDITIONS | 35 deg. C, 75 % RH, 1005 hPa | TESTED BY: Martin Lee | |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M

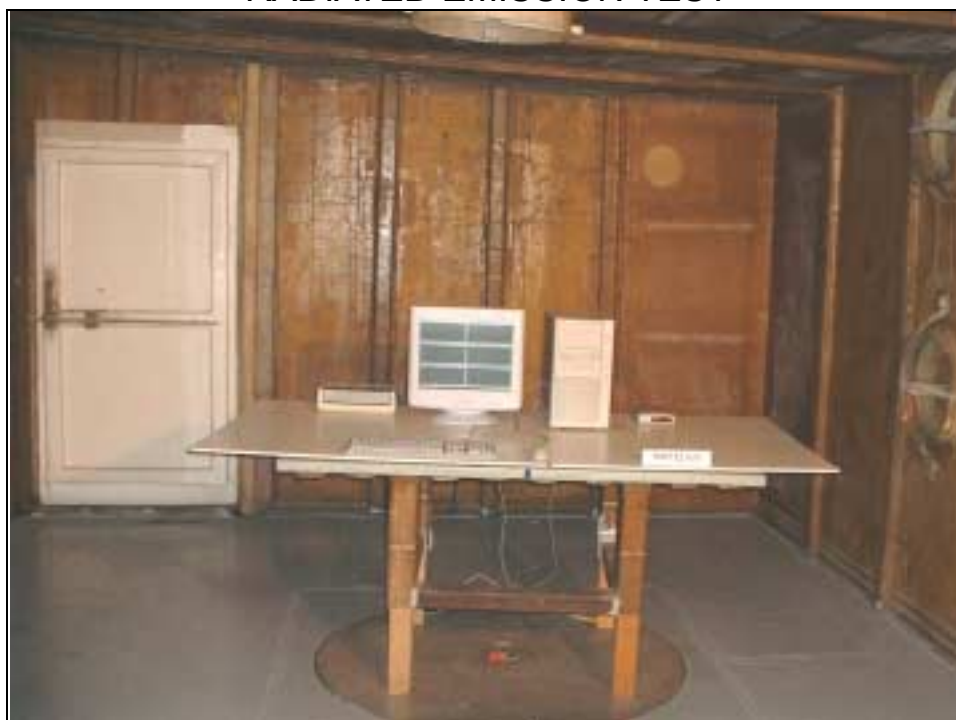
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-Amp. Gain (dB) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| 1 | 33.76 | 26.4 QP | 30.00 | -3.60 | 1.01V | 167 | 8.40 | 17.43 | 0.57 | 0.00 | -18.00 |
| 2 | 50.67 | 27.3 QP | 30.00 | -2.70 | 1.25V | 293 | 19.55 | 7.03 | 0.72 | 0.00 | -7.75 |
| 3 | 53.48 | 27.9 QP | 30.00 | -2.10 | 1.34V | 332 | 20.55 | 6.62 | 0.73 | 0.00 | -7.35 |
| 4 | 60.08 | 27.8 QP | 30.00 | -2.20 | 1.75V | 323 | 21.25 | 5.79 | 0.76 | 0.00 | -6.55 |
| 5 | 80.81 | 25.7 QP | 30.00 | -4.30 | 1.20V | 257 | 18.31 | 6.50 | 0.89 | 0.00 | -7.39 |
| 6 | 135.02 | 20.1 QP | 30.00 | -9.90 | 1.00V | 356 | 7.74 | 11.19 | 1.13 | 0.00 | -12.32 |
| 7 | 151.97 | 18.5 QP | 30.00 | -11.50 | 1.00V | 203 | 7.10 | 10.15 | 1.21 | 0.00 | -11.36 |
| 8 | 185.88 | 16.3 QP | 30.00 | -13.70 | 1.00V | 194 | 6.76 | 8.17 | 1.37 | 0.00 | -9.54 |
| 9 | 202.80 | 24.7 QP | 30.00 | -5.30 | 1.00V | 219 | 14.96 | 8.36 | 1.39 | 0.00 | -9.76 |
| 10 | 220.64 | 21.4 QP | 30.00 | -8.60 | 1.00V | 209 | 10.35 | 9.57 | 1.48 | 0.00 | -11.06 |
| 11 | 236.20 | 24.6 QP | 37.00 | -12.40 | 1.00V | 231 | 12.53 | 10.47 | 1.55 | 0.00 | -12.02 |
| 12 | 439.73 | 23.1 QP | 37.00 | -13.90 | 3.36V | 183 | 4.55 | 16.23 | 2.32 | 0.00 | -18.55 |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB/m) = Pre-Amplifier Gain (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
 3. Pre-Amplifier Gain (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 4. The other emission levels were very low against the limit.
 5. Margin value = Emission level – Limit value.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6 APPENDIX - INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

| | |
|--------------------|-----------------|
| USA | FCC, NVLAP, UL |
| Germany | TUV Rheinland |
| Japan | VCCI |
| New Zealand | MoC |
| Norway | NEMKO, DNV |
| Canada | INDUSTRY CANADA |
| R.O.C. | CNLA, BSMI |

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.
If you have any comments, please feel free to contact us at the following:

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Hsin Chu EMC Lab:
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The address and road map of all our labs can be found in our web site also.