APPLICATION FOR CERTIFICATION On Behalf of

Magor Communications Corporation

LCD Monitor

| Model Number | Brand Name |
|--------------|------------|
| am 46-1 | AML |

FCC ID: WDKAM46

Prepared for: Magor Communications Corporation

350 Legget Drive, Kanata, Ontario, Canada, K2K2W7

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block,

Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F08333

Date of Test : Jun.24~Jul.12, 2008

Date of Report : Jul.16, 2008

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TEST REPORT CERTIFICATION

Applicant

Magor Communications Corporation

Manufacturer

TCL King Electrical Appliances (Huizhou) Co.Ltd.

EUT Description

LCD Monitor

FCC ID

WDKAM46

(A) MODEL NO.&

BRAND NAME

| Model Number | Brand Name |
|--------------|------------|
| am 46-1 | AML |

(B) POWER SUPPLY. :

AC 120V/60Hz

(C) TEST VOLTAGE:

AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2007, ANSI C63.4-2003 ICES-003 Issue 4 February 2004.

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits for radiated and conducted emissions. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of tests. Also, this report shows that EUT is technically compliant with FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

| Date of Test : | Jun.24~ Jul.12, 2008 |
|--------------------------------|--|
| Prepared by : | YoYo Wang / Assistant |
| Reviewer: | Jamy Yu / Senior Engineer |
| | 作業的技(原則)者限公司 Audix Technology (Shenzhen) Co., Ltd. EMC 専門報告専用者 |
| Approved & Authorized Signer : | Stamp only for EMC Dept. Report Signature: Len u Yin |

Ken Lu / Deputy Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION | | | | | | | |
|---------------------------------------|---------------------------------------|---------|---------|--|--|--|--|
| Description of Test Item | Standard | Limits | Results | | | | |
| Power Line Conducted Emission Test | FCC Part 15: 2006 ANSI C63.4: 2003 | Class B | PASS | | | | |
| Radiated Emission Test | FCC Part 15: 2006 ANSI C63.4: 2003 | Class B | PASS | | | | |

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Description : LCD Monitor

Model Number &

Model Number **Brand Name** Brand Name am 46-1

FCC ID WDKAM46

Applicant Magor Communications Corporation

350 Legget Drive, Kanata, Ontario, Canada, K2K2W7

AML

Manufacturer TCL King Electrical Appliances (Huizhou) Co.Ltd.

Section 19, Zhongkai Development Zone for New &

High-Level Tech Industries, Huizhou, Guangdong Province,

China, 516006.

Date of Test Jun.24~Jul.12, 2008

Date of Receipt Jun.24, 2008

Sample Type Prototype production

2.2. Tested Supporting System Details

2.2.1. Personal Computer

EMC CODE : Test PC G

M/N : AG017PA#AB2 S/N : CN5470G18

Manufacturer : HP

Power cord : Unshielded, detachabled, 1.8m

FCC ID : By DoC BSMI ID : R33001

2.2.2. PS/2 Keyboard

EMC CODE : ACS-EMC-K08R

M/N : 5219

S/N : BN44300510

Manufacturer : HP

Data Cable : Shielded, Undetachabled, 1.8m

FCC ID : E5XKB5209 BSMI ID : R31213

2.2.3. PS/2 Mouse

EMC CODE : ACS-EMC-M05R

M/N : N3+ Optical S/N : K043240960

Manufacturer : HP

Data Cable : Shielded, Undetachabled, 1.8m

FCC ID : By DoC BSMI ID : R31258

2.2.4. **PRINTER**

EMC CODE : ACS-EMC-PT03

M/N : EN8060A S/N : 908A1001201 Manufacturer : OKIPAGE

Data Cable : Shielded, Detachabled, 1.5m

Power Cord : Unshielded, Detachabled, 1.8m

FCC ID : By DoC : 3882A463

2.2.5. HDD

EMC CODE : ACS-EMC-HDD03

M/N : F12-UF

S/N : A0100215-5390030

Manufacturer : Terasys

Data Cable : Shielded, Detachabled, 1.8m

FCC ID : By DoC BSMI ID : 4912A022

2.2.6. CABLE

HDMI Cable : Unshielded, Detachable, 2.0m RS232 Cable : Unshielded, Detachable, 1.5m

RS-485 Data Interface Converters: Manufacturer: Industrial Automation

M/N: UT-201

2.3.Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block, Shenzhen

Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

3m Anechoic Chamber : Jun. 13, 2006 File on Federal

Communication Commission Registration Number: 90454

3m & 10m Anechoic Chamber : Jan. 31, 2007 File on Federal

Communication Commission Registration Number: 794232

EMC Lab. : Accredited by DATech, German

Registration Number: DAT-P-091/99-01

Dec. 20, 2007

Accredited by NVLAP, USA NVLAP Code: 200372-0

Apr.01, 2008

2.4. Measurement Uncertainty

| No. | Item | MU | Remark |
|-----|--|---------|---------------------------|
| 1 | Uncertainty for Conducted Emission Test | 2.02dB | |
| 2 | Uncertainty for Radiation Emission test in | 3.44 dB | Polarize: V |
| | 3m chamber | 3.96 dB | Polarize: H |
| | | 3.46 dB | Distance: 10m Polarize: V |
| 2 | Uncertainty for Radiation Emission test in | 3.82 dB | Distance: 10m Polarize: H |
| 3 | 10m chamber | 3.64 dB | Distance: 3m Polarize: V |
| | | 4.02 dB | Distance: 3m Polarize: H |

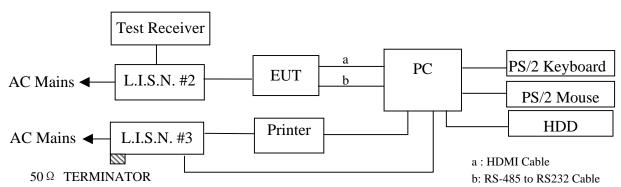
3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|-----------------|-----------|---------------|------------|---------------|
| 1. | Test Receiver | Rohde & Schwarz | ESHS10 | 844077/020 | Mar.07, 08 | 1 Year |
| 2. | L.I.S.N.#2 | Kyoritsu | KNW-407 | 8-1636-1 | May.10, 08 | 1 Year |
| 3. | L.I.S.N.#3 | EMCO | 3825/2 | 9006-1660 | May.10, 08 | 1 Year |
| 4. | Terminator | Hubersuhner | 50Ω | No. 1 | May.10, 08 | 1 Year |
| 5. | RF Cable | MIYAZAKI | 5D-2W | LISN Cable 1# | Jan.09, 08 | 1/2 Year |
| 6. | Coaxial Switch | Anritsu | MP59B | M55367 | Jan.09, 08 | 1/2 Year |
| 7. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100340 | Jan.09, 08 | 1/2 Year |

3.2.Block Diagram of Test Setup

3.2.1.Block diagram of connection between the EUT and simulators



(EUT: LCD Monitor)

3.3. Power Line Conducted Emission Test Limits

| | Maximum RF Line Voltage | | | |
|-----------------|-------------------------|---------------|--|--|
| Frequency | Quasi-Peak Level | Average Level | | |
| | $dB(\mu V)$ | $dB(\mu V)$ | | |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* | | |
| 500kHz ~ 5MHz | 56 | 46 | | |
| 5MHz ~ 30MHz | 60 | 50 | | |

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1.LCD Monitor (EUT)

Model Number : am 46-1 Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Detail, in Section 2.2.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3.Let the EUT worked in test mode (Running "H" Pattern 720*480 60Hz / Running "H" Pattern 1280*720 60Hz / Running "H" Pattern 1920*1080 60Hz) and measured it.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2003 on conducted Emission test.

The bandwidth of the R&S Test Receiver ESHS10 was set at 10kHz.

The frequency range from 150kHz to 30MHz was checked using a peak detector.

The all reading of measurement was with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

The details of test modes are as follow:

| No | Test Mode | Desclution & Engagement | Reference Test Data No. | | |
|-----|---------------------|-------------------------|-------------------------|-----|--|
| No. | rest wiode | Resolution & Frequency | VA | VB | |
| 1. | | 720*480/60Hz | #5 | #6 | |
| 2. | Running "H" Pattern | 1280*720/60Hz | #8 | #7 | |
| 3. | | 1920*1080/60Hz | #9 | #10 | |

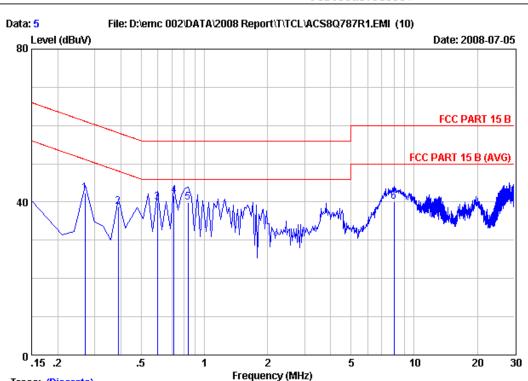
3.7. Power Line Conducted Emission Test Results

PASSED



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Trace: (Discrete)

Site no :Audix No.1 Conduction
Dis./Ant. :-- KNW407 1# VA

Limit :FCC PART 15 B

Env./Ins. :Temp:23' Humi:54% ESHS10

EUT :LCD Monitor M/N:am 46-1 Power Rating :AC 120V/60Hz

Test Mode :Running "H" Pattern M/N :720x480 60Hz

Data no :5 LISN phase:

Engineer :Realmyu

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emissior Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1 | 0.27 | 0.27 | 10.15 | 31.90 | 42.32 | 61.14 | 18.82 | QP |
| 2 | 0.39 | 0.23 | 10.14 | 28.38 | 38.75 | 58.09 | 19.34 | QP |
| 3 | 0.60 | 0.20 | 10.14 | 29.49 | 39.83 | 56.00 | 16.17 | QP |
| 4 | 0.72 | 0.19 | 10.14 | 31.32 | 41.65 | 56.00 | 14.35 | QP |
| 5 | 0.84 | 0.15 | 10.14 | 29.54 | 39.83 | 56.00 | 16.17 | QP |
| 6 | 8.00 | 0.20 | 10.23 | 29.61 | 40.04 | 60.00 | 19.96 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



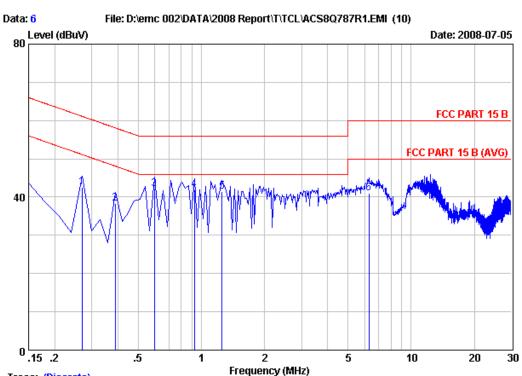
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Tel:+86-755-26639495 Fax:+86-755-26632877 Postcode:518057

Data no :6

Engineer : Realmyu

LISN phase:



Trace: (Discrete)

Site no :Audix No.1 Conduction
Dis./Ant. :-- KNW407 1# VB

Limit :FCC PART 15 B

Env./Ins. :Temp:23' Humi:54% ESHS10

EUT :LCD Monitor M/N:am 46-1

Power Rating :AC 120V/60Hz

Test Mode :Running "H" Pattern M/N :720x480 60Hz

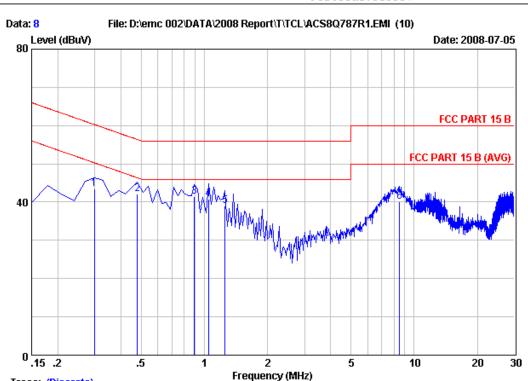
| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1 | 0.27 | 0.13 | 10.15 | 32.25 | 42.53 | 61.14 | 18.61 | QP |
| 2 | 0.39 | 0.17 | 10.14 | 27.98 | 38.29 | 58.09 | 19.80 | QP |
| 3 | 0.60 | 0.15 | 10.14 | 31.86 | 42.15 | 56.00 | 13.85 | QP |
| 4 | 0.93 | 0.10 | 10.15 | 31.56 | 41.81 | 56.00 | 14.19 | QP |
| 5 | 1.25 | 0.08 | 10.15 | 31.17 | 41.40 | 56.00 | 14.60 | QP |
| 6 | 6.30 | 0.06 | 10.21 | 30.76 | 41.03 | 60.00 | 18.97 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



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Trace: (Discrete)

Site no :Audix No.1 Conduction Dis./Ant. :-- KNW407 1# VA

Limit :FCC PART 15 B

Env./Ins. :Temp:23' Humi:54% ESHS10

EUT :LCD Monitor M/N:am 46-1

Power Rating :AC 120V/60Hz

Test Mode :Running "H" Pattern M/N :1280x720 60Hz

Data no :8 LISN phase:

Engineer :Realmyu

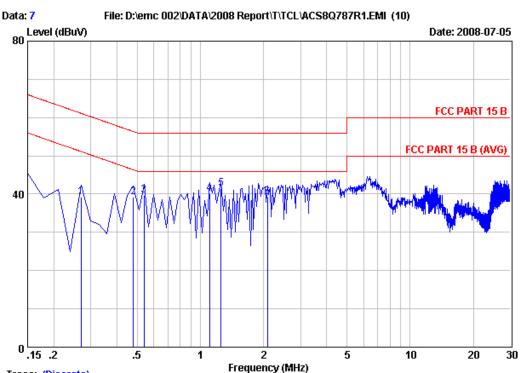
| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|--------|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1 | 0.30 | 0.26 | 10.15 | 33.02 | 43.43 | 60.26 | 16.83 | QP |
| 2 | 0.48 | 0.20 | 10.14 | 31.83 | 42.17 | 56.37 | 14.20 | QP |
| 3 | 0.90 | 0.13 | 10.15 | 31.19 | 41.47 | 56.00 | 14.53 | QP |
| 4 | 1.05 | 0.10 | 10.15 | 30.48 | 40.73 | 56.00 | 15.27 | QP |
| 5 | 1.25 | 0.10 | 10.15 | 28.85 | 39.10 | 56.00 | 16.90 | QP |
| 6 | 8.51 | 0.20 | 10.24 | 29.60 | 40.04 | 60.00 | 19.96 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



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Trace: (Discrete)

Site no :Audix No.1 Conduction
Dis./Ant. :-- KNW407 1# VB

Limit :FCC PART 15 B

Env./Ins. :Temp:23' Humi:54% ESHS10

EUT :LCD Monitor M/N:am 46-1

Power Rating :AC 120V/60Hz

Test Mode :Running "H" Pattern M/N :1280x720 60Hz

Data no :7 LISN phase:

Engineer :Realmyu

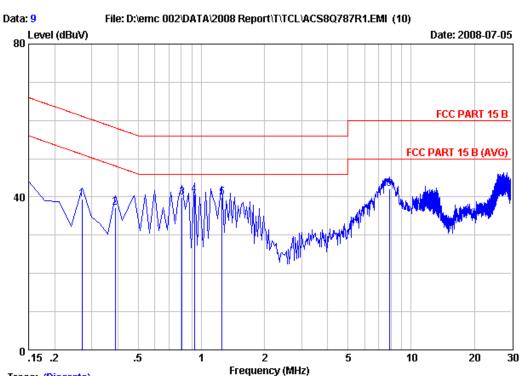
| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emissior Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1 | 0.27 | 0.13 | 10.15 | 28.97 | 39.25 | 61.14 | 21.89 | QP |
| 2 | 0.48 | 0.20 | 10.14 | 28.86 | 39.20 | 56.37 | 17.17 | QP |
| 3 | 0.54 | 0.18 | 10.14 | 29.26 | 39.58 | 56.00 | 16.42 | QP |
| 4 | 1.11 | 0.09 | 10.15 | 29.80 | 40.04 | 56.00 | 15.96 | QP |
| 5 | 1.25 | 0.08 | 10.15 | 31.11 | 41.34 | 56.00 | 14.66 | QP |
| 6 | 2.09 | 0.03 | 10.15 | 29.04 | 39.22 | 56.00 | 16.78 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



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Trace: (Discrete)

Site no :Audix No.1 Conduction
Dis./Ant. :-- KNW407 1# VA

Limit :FCC PART 15 B

Env./Ins. :Temp:23' Humi:54% ESHS10 EUT :LCD Monitor M/N:am 46-1

Power Rating : AC 120V/60Hz

Test Mode :Running "H" Pattern M/N :1920*1080 60Hz

Data no :9 LISN phase:

Engineer :Realmyu

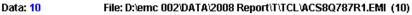
| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1 | 0.27 | 0.27 | 10.15 | 28.95 | 39.37 | 61.14 | 21.77 | QP |
| 2 | 0.39 | 0.23 | 10.14 | 26.88 | 37.25 | 58.09 | 20.84 | QP |
| 3 | 0.81 | 0.16 | 10.14 | 29.60 | 39.90 | 56.00 | 16.10 | QP |
| 4 | 0.93 | 0.12 | 10.15 | 30.31 | 40.58 | 56.00 | 15.42 | QP |
| 5 | 1.25 | 0.10 | 10.15 | 29.63 | 39.88 | 56.00 | 16.12 | QP |
| 6 | 7.85 | 0.20 | 10.23 | 31.76 | 42.19 | 60.00 | 17.81 | QP |

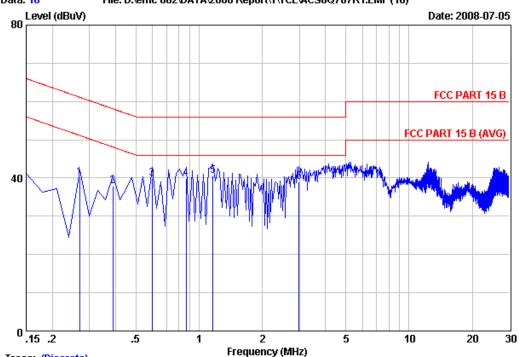
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



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Fax:+86-755-26632877 Postcode:518057





Trace: (Discrete)

Site no :Audix No.1 Conduction Dis./Ant. :-- KNW407 1# VB

Limit :FCC PART 15 B

Env./Ins. :Temp:23' Humi:54% ESHS10

EUT :LCD Monitor M/N:am 46-1

Power Rating :AC 120V/60Hz

Test Mode :Running "H" Pattern M/N :1920*1080 60Hz

| Data | no | : | 10 |
|------|-------|---|----|
| LISN | phase | : | |

Engineer :Realmyu

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1 | 0.27 | 0.13 | 10.15 | 29.89 | 40.17 | 61.14 | 20.97 | QP |
| 2 | 0.39 | 0.17 | 10.14 | 27.56 | 37.87 | 58.09 | 20.22 | QP |
| 3 | 0.60 | 0.15 | 10.14 | 29.54 | 39.83 | 56.00 | 16.17 | QP |
| 4 | 0.87 | 0.10 | 10.15 | 29.57 | 39.82 | 56.00 | 16.18 | QP |
| 5 | 1.16 | 0.08 | 10.15 | 30.38 | 40.61 | 56.00 | 15.39 | QP |
| 6 | 2.99 | 0.03 | 10.17 | 28.82 | 39.02 | 56.00 | 16.98 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.

4. RADIATED EMISSION TEST

4.1.Test Equipment

The following test equipments are used during the radiated emission measurement:

4.1.1.For frequency range 30MHz~1000MHz (At Anechoic Chamber)

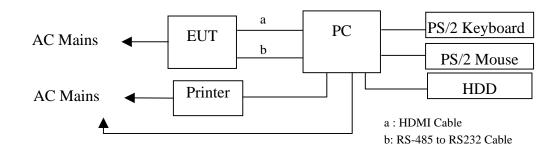
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|--------------|-----------|-----------------|-------------|---------------|
| 1. | 3#Chamber | AUDIX | N/A | N/A | Jun.09, 08 | 1/2 Year |
| 2. | EMI Spectrum | Agilent | E7403A | MY42000106 | May 10, 08 | 1 Year |
| 3. | Test Receiver | Rohde & | ESVS20 | 830350/005 | May 10, 08 | 1 Year |
| | | Schwarz | | | | |
| 4. | Amplifier | HP | 8447D | 2648A04738 | Jan.09, 08 | 1/2 Year |
| 5. | Bilog Antenna | Schaffner | CBL6112D | 25237 | Feb.21, 08 | 1 Year |
| 6. | RF Cable | JINGCHENG | KLMR400 | 3# Chamber No.1 | Jan. 09, 08 | 1/2 Year |
| 7. | RF Cable | JINGCHENG | JBY400 | 3# Chamber No.2 | Jan. 09, 08 | 1/2 Year |
| 8. | RF Cable | JINGCHENG | JBY400 | 3# Chamber No.3 | Jan. 09, 08 | 1/2 Year |
| 9. | RF Cable | JINGCHENG | JBY400 | 3# Chamber No.4 | Jan. 09, 08 | 1/2 Year |
| 10. | Coaxial Switch | Anritsu | MP59B | M73989 | Jan. 09, 08 | 1/2 Year |

4.1.2.For frequency range above1GHz (At Anechoic Chamber)

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-----------|--------------|-------------|------------|------------|---------------|
| 1. | Spectrum | Agilent | E4446A | US44300459 | May 10, 08 | 1 Year |
| 2. | Amp | HP | 8449B | 3008A00863 | May 10, 08 | 1 Year |
| 3. | Antenna | EMCO | 3115 | 9607-4877 | May 27, 08 | 1.5 Year |
| 4. | HF Cable | Hubersuhne | Sucoflex104 | - | May 28, 08 | 1 Year |

4.2.Block Diagram of Test Setup

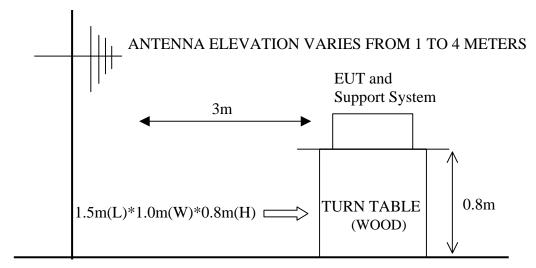
4.2.1.Block Diagram of connection between EUT and simulators



(EUT: LCD Monitor)

4.2.2.In Anechoic (3m) Chamber Test Setup Diagram for 30-1000MHz

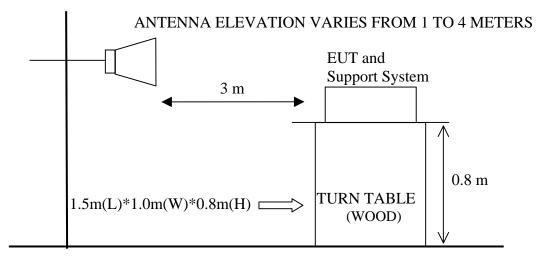
ANTENNA TOWER



GROUND PLANE

4.2.3.In Anechoic (3m) Chamber Test Setup Diagram for above1GHz

ANTENNA TOWER



GROUND PLANE

4.3. Radiated Emission Limit

| FREQUENCY | DISTANCE | FIELD STRENGTHS LIMIT | | |
|------------|----------|---|---------------|--|
| MHz | Meters | μV/m | $dB(\mu V)/m$ | |
| 30 ~ 88 | 3 | 100 | 40.0 | |
| 88 ~ 216 | 3 | 150 | 43.5 | |
| 216 ~ 960 | 3 | 200 | 46.0 | |
| 960 ~ 1000 | 3 | 500 | 54.0 | |
| Above 1000 | 3 | Other: | | |
| | | 74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average) | | |
| | | | | |

Remark : (1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. LCD Monitor (EUT)

Model Number : am 46-1 Serial Number : N/A

4.4.2.Support Equipment : As Tested Supporting System Detail, in Section 2.2.

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turn on the power of all equipment.
- 4.5.3.Let the EUT worked in test mode (Running "H" Pattern 720*480 60Hz / Running "H" Pattern 1280*720 60Hz/ Running "H" Pattern 1920*1080 60Hz) and measured it.

4.6.Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2003 on Radiated Emission test.

The bandwidth of the R&S Test Receiver ESVS20 was set at 120kHz. (For 30MHz to 1000MHz)

The resolution bandwidth of the Agilent Spectrum Analyzer E4446A was set at 1MHz. (For above 1GHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

For frequency range 30MHz~1000MHz, EUT with the following test modes were measured within Anechoic Chamber and all the scanning waveform were on section 4.7, which include:

Test Date: Jun.24, 2008 Temperature: 24°C Humidity: 56%

The details of test modes are as follows:

| NO. | Test Mode | Resolution & | Reference Test Data No. | | |
|------|---------------------|-----------------|-------------------------|----------|--|
| | Test Mode | Frequency | Horizontal | Vertical | |
| 1. | | 720*480/60 Hz | #9 | #10 | |
| 2. | Running "H" Pattern | 1280*720/60 Hz | #8 | #7 | |
| 3. 💥 | | 1920*1080/60 Hz | #5 | #6 | |

(* Worst test mode)

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.7.

For frequency range 1GHz~6GHz, all the emissions are Peak measured and comply with Average limit, EUT with below test mode 1~3 were measured within Anechoic Chamber and the test results on section 4.7.

Test Date: Jul.12, 2008 Temperature: 24°C Humidity: 56%

| NO. | Test Mode | Resolution & | Reference Test Data No. | | |
|-----|---------------------|-----------------|-------------------------|----------|--|
| NO. | rest Mode | Frequency | Horizontal | Vertical | |
| 1. | | 720*480/60 Hz | #16 | #15 | |
| 2. | Running "H" Pattern | 1280*720/60 Hz | #13 | #14 | |
| 3. | | 1920*1080/60 Hz | #12 | #11 | |

4.7. Radiated Emission Test Results

PASSED



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Trace: (Discrete)

Site no. : 3# Chamber Radiation

Data no. : 9 Dis. / Ant. : 3m CBL6112D Ant. pol. : HORIZONTAL

: FCC PART15 B Limit

Env. / Ins. : 24*C/56% ESVS20 Engineer : Power

: LCD Monitor M/N:am 46-1 EUT

Power Rating : AC 120V/60Hz Test Mode : Running "H" Pattern : 720*480@60Hz M/N

> File: D:\2008 Report Data\T\TCL\ACS8q787R1.EMI (10) Level (dBuV/m) Date: 2008-06-24 FCC PART15 B 40 0 30 224. 418. 612. 806. 1000 Frequency (MHz) Trace: (Discrete)

> > Engineer : Power

Site no. : 3# Chamber Radiation Dis. / Ant. : 3m CBL6112D

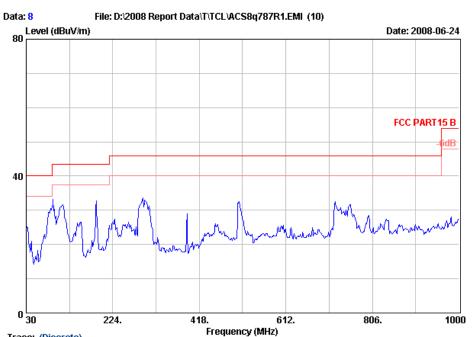
Data no. : 10 Ant. pol. : VERTICAL : FCC PART15 B Limit

Env. / Ins. : 24*C/56% ESVS20 : LCD Monitor M/N:am 46-1

Power Rating : AC 120V/60Hz : Running "H" Pattern Test Mode M/N: 720*480@60Hz



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Trace: (Discrete)

Site no. : 3# Chamber Radiation

Data no. : 8 Dis. / Ant. : 3m CBL6112D Ant. pol. : HORIZONTAL

: FCC PART15 B Limit

: 24*C/56% ESVS20 Engineer : Power Env. / Ins. EUT

: LCD Monitor M/N:am 46-1

Power Rating : AC 120V/60Hz : Running "H" Pattern Test Mode : 1280*720@60Hz M/N



Data no. : 7

Engineer : Power

Site no. : 3# Chamber Radiation Dis. / Ant. : 3m CBL6112D

Ant. pol. : VERTICAL Limit : FCC PART15 B

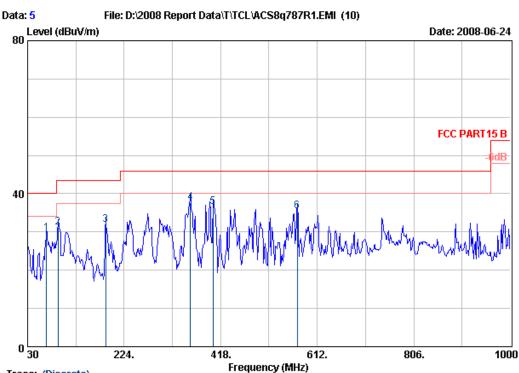
: 24*C/56% ESVS20 Env. / Ins. EUT : LCD Monitor M/N:am 46-1

Power Rating : AC 120V/60Hz : Running "H" Pattern Test Mode : 1280*720@60Hz M/N



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Trace: (Discrete)

Site no. : 3# Chamber Radiation

Data no. : 5 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m CBL6112D

Limit : FCC PART15 B

Env. / Ins. : 24*C/56% ESVS20 Engineer : Power

: LCD Monitor M/N:am 46-1

Power Rating: AC 120V/60Hz

Test Mode : Running "H" Pattern M/N : 1920*1080@60Hz

| | Freq. | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|--------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 67.83 | 6.35 | 0.64 | 22.73 | 29.72 | 40.00 | 10.28 | QP |
| 2 | 91.11 | 9.53 | 0.73 | 21.00 | 31.26 | 43.50 | 12.24 | QP |
| 3 | 187.14 | 9.25 | 1.02 | 21.64 | 31.91 | 43.50 | 11.59 | QP |
| 4 | 356.89 | 14.41 | 1.52 | 21.73 | 37.66 | 46.00 | 8.34 | QP |
| 5 | 402.48 | 15.27 | 1.54 | 19.80 | 36.61 | 46.00 | 9.39 | QP |
| 6 | 572.23 | 18.59 | 1.89 | 14.91 | 35.39 | 46.00 | 10.61 | QP |

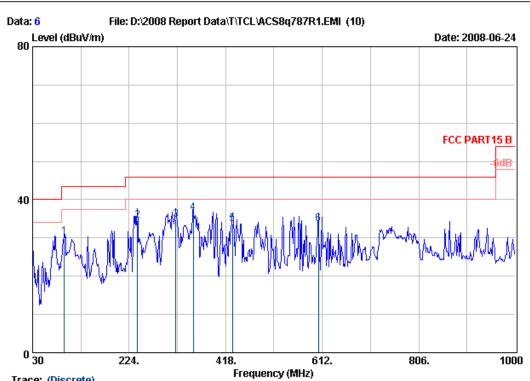
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. The worst emission was detected at 356.89MHz with corrected signal level of $37.66dB\mu V/m$ (Limit is $46.00dB\mu V/m$) when the antenna was at horizontal polarization and at 2.1m high and the turntable was at 223°.
- 4.0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



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Engineer : Power

Trace: (Discrete)

Site no. : 3# Chamber Radiation

Data no. : 6 Ant. pol. : VERTICAL Dis. / Ant. : 3m CBL6112D Limit : FCC PART15 B

Env. / Ins. : 24*C/56% ESVS20

: LCD Monitor M/N:am 46-1

Power Rating: AC 120V/60Hz

Test Mode : Running "H" Pattern M/N : 1920*1080@60Hz

| | Freq. | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|--------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 94.02 | 9.82 | 0.75 | 19.68 | 30.25 | 43.50 | 13.25 | QP |
| 2 | 240.49 | 11.18 | 1.20 | 22.21 | 34.59 | 46.00 | 11.41 | QP |
| 3 | 318.09 | 13.94 | 1.43 | 19.39 | 34.76 | 46.00 | 11.24 | QP |
| 4 | 353.01 | 14.29 | 1.50 | 20.66 | 36.45 | 46.00 | 9.55 | QP |
| 5 | 431.58 | 16.77 | 1.66 | 15.14 | 33.57 | 46.00 | 12.43 | QP |
| 6 | 604.24 | 18.52 | 2.01 | 13.02 | 33.55 | 46.00 | 12.45 | QP |

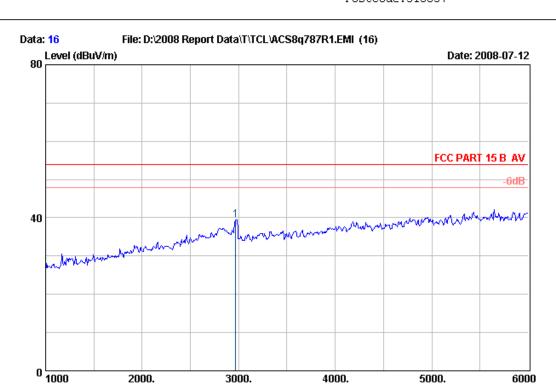
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. The worst emission was detected at 353.01MHz with corrected signal level of $36.45 dB\mu V/m$ (Limit is $46.00 dB\mu V/m$) when the antenna was at vertical polarization and at 2.1m high and the turntable was at 43°.
- 4.0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



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Frequency (MHz)

Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 16

Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B AV

Env. / Ins. : 24*C/56% ESVS20 Engineer : Power

EUT : LCD Monitor M/N:am 46-1

Power Rating: AC 120V/60Hz

Test Mode : Running "H" Pattern

720*480@60Hz

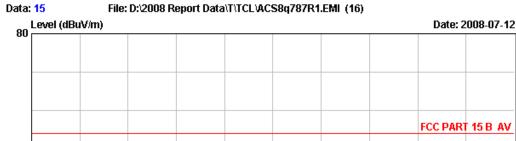
| | | Ant. | Cable | Amp | Emission | | | | |
|---|----------------|-------|-------|-------|----------|-------------------|-------|-------|--------|
| | Freq. (MHz) | | | | _ | Level (dBuV/m) | | _ | Remark |
| 1 | 2970.00 | 31.08 | 7.06 | 35.01 | 36.40 | 39.53 | 54.00 | 14.47 | Peak |

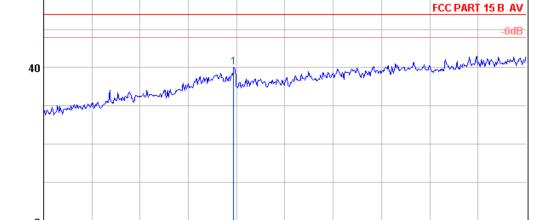
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Frequency (MHz)

4000.

5000.

6000

Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 15 Ant. pol. : VERTICAL Dis. / Ant. : 3m 3115

3000.

Limit : FCC PART 15 B AV

Env. / Ins. : 24*C/56% ESVS20 Engineer : Power

: LCD Monitor M/N:am 46-1

Power Rating: AC 120V/60Hz

Test Mode : Running "H" Pattern

720*480@60Hz

2000.

| | Freq. | Factor | Loss | | Reading | Emission Level (dBuV/m) | Limits | _ | Remark |
|---|---------|--------|------|-------|---------|-------------------------------|--------|-------|--------|
| 1 | 2970.00 | 31.08 | 7.06 | 35.01 | 36.96 | 40.09 | 54.00 | 13.91 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

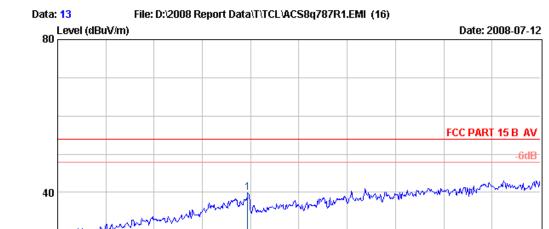


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5000.

6000



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 13

Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL

3000.

Frequency (MHz)

4000.

Limit : FCC PART 15 B AV

Env. / Ins. : 24*C/56% ESVS20 Engineer : Power

EUT : LCD Monitor M/N:am 46-1

Power Rating: AC 120V/60Hz

Test Mode : Running "H" Pattern

1280*720@60Hz

2000.

| | | Ant. | Cable | Amp | | | | | |
|---|---------|--------|-------|--------|---------|----------|----------|--------|--------|
| | Freq. | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| | | | | | | | | | |
| 1 | 2970.00 | 31.08 | 7.06 | 35.01 | 36.70 | 39.83 | 54.00 | 14.17 | Peak |

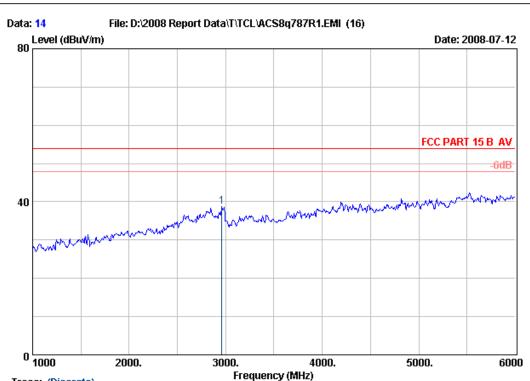
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 14
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B AV

Env. / Ins. : 24*C/56% ESVS20 Engineer : Power

EUT : LCD Monitor M/N:am 46-1

Power Rating: AC 120V/60Hz

Test Mode : Running "H" Pattern

1280*720@60Hz

| | | Ant. | Cable | Amp | | Emission | | | |
|---|----------------|-------|-------|-------|-------|-------------------|-------|-------|--------|
| | Freq. (MHz) | | | | _ | Level (dBuV/m) | | _ | Remark |
| 1 | 2960.00 | 31.04 | 7.04 | 35.01 | 35.60 | 38.67 | 54.00 | 15.33 | Peak |

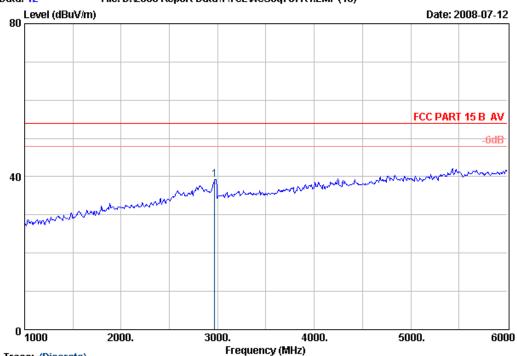
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 12

Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B AV

Env. / Ins. : 24*C/56% ESVS20 Engineer : Power

EUT : LCD Monitor M/N:am 46-1

Power Rating: AC 120V/60Hz

Test Mode : Running "H" Pattern

1920*1080@60Hz

| | Freq. | | Loss | Factor | Reading | | Limits (dBuV/m) | _ | Remark |
|---|---------|-------|------|--------|---------|-------|--------------------|-------|--------|
| 1 | 2970.00 | 31.08 | 7.06 | 35.01 | 36.14 | 39.27 | 54.00 | 14.73 | Peak |

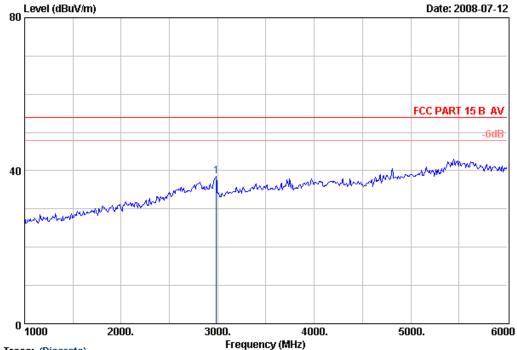
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 11 Ant. pol. : VERTICAL Dis. / Ant. : 3m 3115

Limit : FCC PART 15 B AV

Env. / Ins. : 24*C/56% ESVS20 Engineer : Power

: LCD Monitor M/N:am 46-1

Power Rating: AC 120V/60Hz

Test Mode : Running "H" Pattern

1920*1080@60Hz

| | | Ant. | Cable Amp Emission | | | | | | |
|---|---------|--------|--------------------|--------|---------|----------|----------|--------|--------|
| | Freq. | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2985.00 | 30.94 | 7.08 | 35.01 | 35.59 | 38.60 | 54.00 | 15.40 | Peak |
| | | | | | | | | | |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

5. DEVIATION TO TEST SPECIFICATIONS

[NONE]