



# FCC TEST REPORT

According to

**47 CFR, Part 2, Part 15 and CISPR PUB. 22**

|              |                                                                             |
|--------------|-----------------------------------------------------------------------------|
| Applicant    | : LG Electronics USA                                                        |
| Address      | : 1000 Sylvan Avenue Englewood Cliffs New Jersey<br>United States           |
| Manufacturer | : LG Electronics Nanjing Display Co., Ltd.                                  |
| Address      | : No.346,Yaoxin Road Economic & Technical<br>Development Zone Nanjing China |
| Equipment    | : LCD Monitor                                                               |
| Model No.    | : W2443SV                                                                   |
| FCC ID       | : BEJW2443SV                                                                |
| Trade Name   | : LG                                                                        |

- The test result refers exclusively to the test presented test model / sample.
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- The test report must not be used by the clients to claim product certification approval by **NVLAP** or any agency of the Government.



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## Document history

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| Equipment    | : LCD Monitor                                                               |
| Model No.    | : W2443SV                                                                   |
| FCC ID       | : BEJW2443SV                                                                |
| Trade Name   | : LG                                                                        |

### I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 – 2003** and the energy emitted by this equipment was **passed** **CISPR PUB. 22 and FCC Part 15** in both radiated and conducted emission class B limits. Testing was carried out on Apr. 24, 2009 at **CerpPASS Technology Corp.**

Documented By:

Approved By:

Released By:

\_\_\_\_\_  
Cathy Chen/ Administration

\_\_\_\_\_  
John Wang/ Technical director

\_\_\_\_\_  
Alex Chiu/ Supervisor



## 1. Summary of Test Procedure and Test Result

| Test Item          | Normative References                     | Test Result |
|--------------------|------------------------------------------|-------------|
| Conducted Emission | ANSI C63.4-2003<br>FCC Part 15 Subpart B | Pass        |
| Radiated Emission  | ANSI C63.4-2003<br>FCC Part 15 Subpart B | Pass        |



## 2. Test Configuration of Equipment under Test

### 2.1. Feature of Equipment under Test

|                                                 |                                               |         |
|-------------------------------------------------|-----------------------------------------------|---------|
| LCD Monitor                                     | Model No :                                    | W2443SV |
|                                                 | Serial No :                                   | N/A     |
| VGA Cable                                       | Shielded, 1.8m, with two ferrite cores bonded |         |
| VGA Cable                                       | Shielded, 1.8m                                |         |
| Note : The VGA cable is alternative on selling. |                                               |         |

### 2.2. Test Manner

|                                                                    |                                                                                                                                                                                           |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Software                                                      |                                                                                                                                                                                           |
| a                                                                  | During testing, the interface cables and equipment positions were varied according to                                                                                                     |
| b                                                                  | The complete test system included the PC, Printer, USB Keyboard, USB Mouse and EUT for EMI test.                                                                                          |
| c                                                                  | During the test, Setup up the EUT and all system, turn on the power of all Equipment, run the test software "H", make the EUT at the test mode and it is normal operation, and then test. |
| The pre-test modes                                                 |                                                                                                                                                                                           |
|                                                                    | Test Mode 1: Full system by VGA mode(1920*1080/60Hz)                                                                                                                                      |
|                                                                    | Test Mode 2: Full system by VGA mode(1024*768/60Hz)                                                                                                                                       |
|                                                                    | Test Mode 3: Full system by VGA mode(800*600/60Hz)                                                                                                                                        |
| Select the worst case of the pre-test modes as the final test mode |                                                                                                                                                                                           |
|                                                                    | Test Mode 1: Full system by VGA mode(1920*1080/60Hz)                                                                                                                                      |



## 2.3. Description of Test System

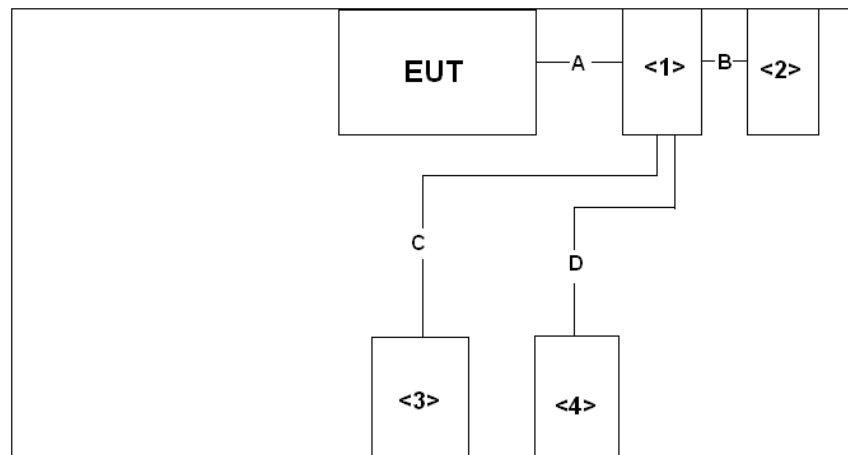
EMI

| Device       | Manufacturer | Model No.   | Description                                  |
|--------------|--------------|-------------|----------------------------------------------|
| PC           | DELL         | DCTA        | N/A                                          |
| Printer      | Epson        | EX3         | N/A                                          |
| USB Keyboard | DELL         | SK-8115     | shielded, with one ferrite core bonded, 2.1m |
| USB Mouse    | Logitech     | 831912-0000 | shielded, 1.8m                               |

| EMI use cable  |          |                                             |
|----------------|----------|---------------------------------------------|
| Cable          | Quantity | Description                                 |
| VGA Cable      | 1        | Shielded, 1.8m                              |
| Parallel Cable | 1        | Shielded, 1.8m                              |
| USB Cable      | 1        | Shielded, 2.1m with one ferrite core bonded |
| USB Cable      | 1        | Shielded, 1.8m                              |



## 2.4. Connection Diagram of Test System



- A. The VGA Cable is connected from PC to the EUT.
- B. The Parallel Cable is connected from PC to Printer.
- C. The USB Cable is connected from PC to the USB Keyboard.
- D. The USB Cable is connected from PC to the USB Mouse.



## 2.5. General Information of Test

|                                |                                                                                                                                                                |                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Test Site :                    | Cerpass Technology Corp.                                                                                                                                       |                  |
| Performed Location             | No.66, Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China                                                                                                 |                  |
| NVLAP LAB Code :               | 200814-0                                                                                                                                                       |                  |
| FCC Registration Number :      | 632249 (Taipei)                                                                                                                                                | 916572 (SuZhou)  |
| IC Registration Number :       | 6597A-1 (Taipei)                                                                                                                                               | 7290A-1 (SuZhou) |
| VCCI Registration Number :     | T-338 for Telecommunication Test (Taipei)<br>C-2188 for Conducted emission test (Taipei)<br>R-1902 for Radiated emission test (Taipei)                         |                  |
|                                | T-343 for Telecommunication Test (Suzhou)<br>C-2919 for Conducted emission test (Suzhou)<br>R-2670 for Radiated emission test (Suzhou)                         |                  |
| Test Voltage:                  | AC 120V/ 60Hz                                                                                                                                                  |                  |
| Test in Compliance with:       | ANSI C63.4-2003<br>FCC Part 15 Subpart B                                                                                                                       |                  |
| Frequency Range Investigated : | Conducted: from 150kHz to 30 MHz<br>Radiation: from 30 MHz to 1,000 MHz<br>Radiation: from 1GHz to 18GHz                                                       |                  |
| Test Distance :                | The test distance of radiated emission below 1GHz from antenna to EUT is 3 M.<br>The test distance of radiated emission above 1GHz from antenna to EUT is 3 M. |                  |

Laboratory accreditation





## 2.6. Measurement Uncertainty

|                                                            |                                                            |
|------------------------------------------------------------|------------------------------------------------------------|
| Conducted Emission                                         |                                                            |
| The measurement uncertainty is evaluated as $\pm 2.24$ dB. |                                                            |
| Radiated Emission                                          |                                                            |
| (30MHz -1000MHz)                                           | The measurement uncertainty is evaluated as $\pm 2.98$ dB. |
| (1G-18GHz)                                                 | The measurement uncertainty is evaluated as $\pm 2.15$ dB. |



### 3. Test of Conducted Emission

#### 3.1. Test Limit

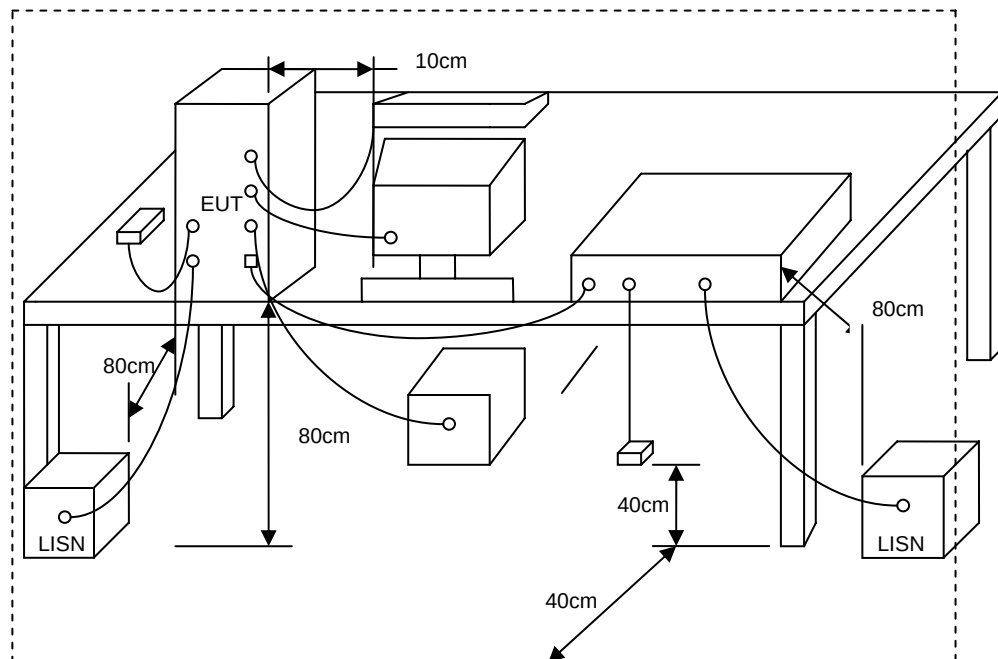
Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

| Frequency<br>(MHz) | Quasi Peak<br>(dB $\mu$ V) | Average<br>(dB $\mu$ V) |
|--------------------|----------------------------|-------------------------|
| 0.15 – 0.5         | 66-56*                     | 56-46*                  |
| 0.5 – 5.0          | 56                         | 46                      |
| 5.0 – 30.0         | 60                         | 50                      |

#### 3.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

### 3.3. Typical test Setup



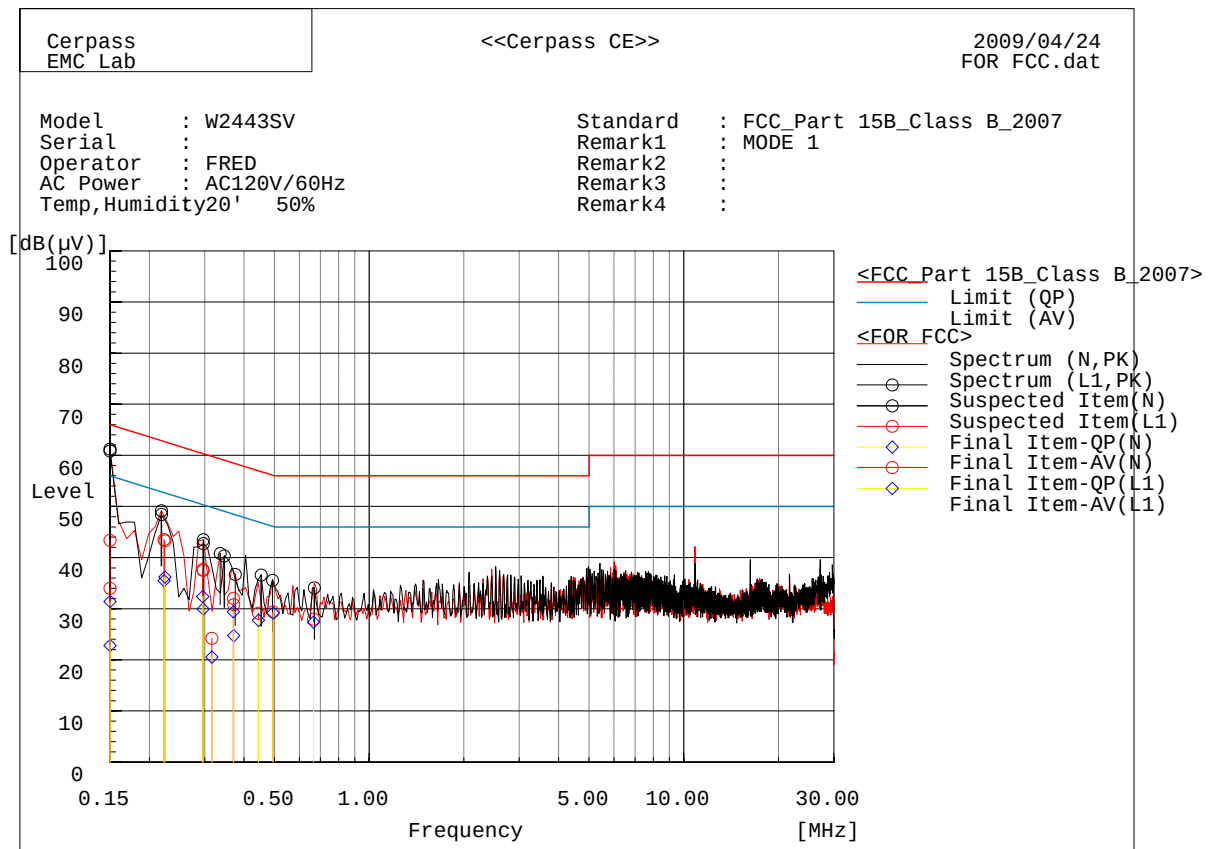
### 3.4. Measurement equipment

| Instrument                     | Manufacturer | Model No.       | Serial No. | Calibration Data |
|--------------------------------|--------------|-----------------|------------|------------------|
| EMC Emission Tester            | EMCPARTNER   | Harmonics-1000  | 159        | 2008.06.30       |
| Test Receiver                  | R&S          | ESCI            | 100565     | 2008.06.30       |
| AMN                            | R&S          | ESH2-Z5         | 100182     | 2008.06.30       |
| Two-Line V-Network             | R&S          | ENV216          | 100325     | 2008.06.30       |
| ISN                            | FCC          | FCC-TLISN-T2-02 | 20379      | 2008.06.30       |
| ISN                            | FCC          | FCC-TLISN-T4-02 | 20380      | 2008.06.30       |
| ISN                            | FCC          | FCC-TLISN-T8-02 | 20381      | 2008.06.30       |
| Current Probe                  | R&S          | EZ-17           | 100303     | 2008.06.30       |
| Passive Voltage Probe          | R&S          | ESH2-Z3         | 100026     | 2008.06.30       |
| Decoupling Clamp               | LUTHI        | FTC 40 X 15 E   | 5685       | 2008.11.01       |
| Absorbing Clamp                | Schwarzbeck  | MDS21           | 3753       | 2008.11.01       |
| Minimum Loss Pad               | Agilent      | 11852B          | 61650      | 2008.06.30       |
| Temperature/<br>Humidity Meter | Zhicheng     | ZC1-11          | CEP-TH-004 | 2008.09.24       |



### 3.5. Test Result and Data

|          |                                                   |           |               |
|----------|---------------------------------------------------|-----------|---------------|
| Standard | : FCC_Part 15B_Class B_2007                       | Date/Time | : 2009/04/24  |
| Model    | : W2443SV                                         | Serial    | : N/A         |
| Operator | : FRED                                            | AC Power  | : AC120V/60Hz |
| Temp     | : 20'                                             | Humidity  | : 50%         |
| Remark   | : Mode 1: Full system by VGA mode(1920*1080/60Hz) |           |               |





## Final Data List

| Frequency<br>MHz | Line<br>Phase | Reading<br>dB(uV)<br>QP | Reading<br>dB(uV)<br>AV | Factor<br>dB | Level<br>dB(uV)<br>QP | Level<br>dB(uV)<br>AV | Limit<br>dB(uV)<br>QP | Limit<br>dB(uV)<br>AV | Margin<br>dB<br>QP | Margin<br>dB<br>AV | Pass/Fail |
|------------------|---------------|-------------------------|-------------------------|--------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------------|-----------|
| 0.150            | L1            | 34.0                    | 22.0                    | 9.4          | 43.4                  | 31.4                  | 66.0                  | 56.0                  | 22.6               | 24.6               | Pass      |
| 0.22401          | L1            | 33.7                    | 26.6                    | 9.6          | 43.3                  | 36.2                  | 62.7                  | 52.7                  | 19.4               | 16.5               | Pass      |
| 0.29569          | L1            | 28.1                    | 22.8                    | 9.6          | 37.7                  | 32.4                  | 60.4                  | 50.4                  | 22.7               | 18.0               | Pass      |
| 0.37009          | L1            | 22.3                    | 19.7                    | 9.7          | 32.0                  | 29.4                  | 58.5                  | 48.5                  | 26.5               | 19.1               | Pass      |
| 0.44449          | L1            | 19.4                    | 18.0                    | 9.7          | 29.1                  | 27.7                  | 57.0                  | 47.0                  | 27.9               | 19.3               | Pass      |
| 0.66507          | L1            | 18.2                    | 17.7                    | 9.7          | 27.9                  | 27.4                  | 56.0                  | 46.0                  | 28.1               | 18.6               | Pass      |
| 0.150            | N             | 24.8                    | 13.6                    | 9.2          | 34.0                  | 22.8                  | 66.0                  | 56.0                  | 32.0               | 33.2               | Pass      |
| 0.22275          | N             | 33.6                    | 25.6                    | 9.9          | 43.5                  | 35.5                  | 62.7                  | 52.7                  | 19.2               | 17.2               | Pass      |
| 0.29666          | N             | 27.7                    | 20.1                    | 9.8          | 37.5                  | 29.9                  | 60.3                  | 50.3                  | 22.8               | 20.4               | Pass      |
| 0.31597          | N             | 14.4                    | 10.7                    | 9.8          | 24.2                  | 20.5                  | 59.8                  | 49.8                  | 35.6               | 29.3               | Pass      |
| 0.37077          | N             | 21.0                    | 14.9                    | 9.8          | 30.8                  | 24.7                  | 58.5                  | 48.5                  | 27.7               | 23.8               | Pass      |
| 0.49503          | N             | 19.7                    | 19.5                    | 9.7          | 29.4                  | 29.2                  | 56.1                  | 46.1                  | 26.7               | 16.9               | Pass      |

Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Fred Guo



## 4. Test of Radiated Emission

### 4.1. Test Limit

Radiated emissions from 30 MHz to 1,000 MHz were measured with a bandwidth of 120 kHz according to the methods defines in ANSI C63.4-2003. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 3.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency<br>(MHz) | Distance<br>(m) | Level<br>(dBuV/m) | Level<br>(dBuV/m) |
|--------------------|-----------------|-------------------|-------------------|
| 30 - 88            | 3               | 40(QP)            | N/A               |
| 88 - 216           | 3               | 43(QP)            | N/A               |
| 216-960            | 3               | 46(QP)            | N/A               |
| 960-1000           | 3               | 54(QP)            | N/A               |
| 1000-18000         | 3               | 74(PK)            | 54(AV)            |
| 18000-40000        | 1               | 84(PK)            | 64(AV)            |

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

| Frequency<br>(MHz) | Distance<br>Meters | Radiated<br>(dB $\mu$ V/ M) |
|--------------------|--------------------|-----------------------------|
| 30-230             | 10                 | 30                          |
| 230-1000           | 10                 | 37                          |



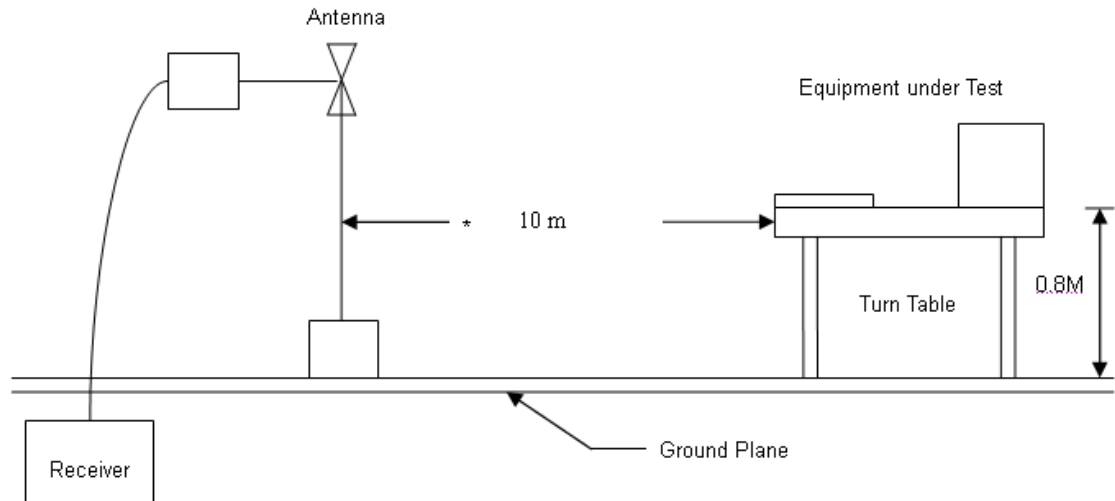
## 4.2. Test Procedures

- a. The EUT was placed on a Rota table top 0.8 meter above ground.
- b. The EUT and its simulators are placed on the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters or 1 meter.
- c. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
- d. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.
- e. Radiated emissions were investigated over the frequency range from 30MHz to 1GHz using a receiver bandwidth of 120KHz and the frequency range from 1GHz to 18GHz using a receiver bandwidth of 1MHz. Radiated was performed at an antenna to EUT distance of 3 meters .

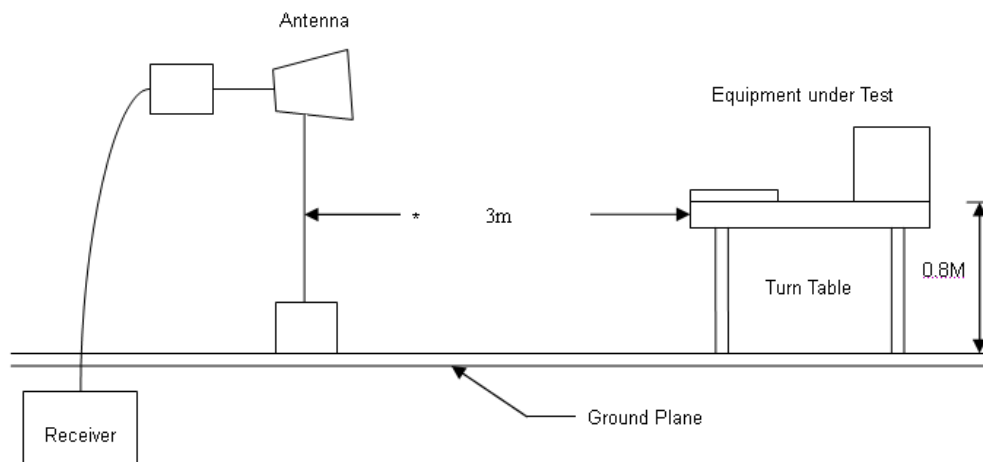


### 4.3. Typical test Setup

#### Below 1GHz Test Setup



#### Above 1GHz Test Setup



**4.4. Measurement equipment**

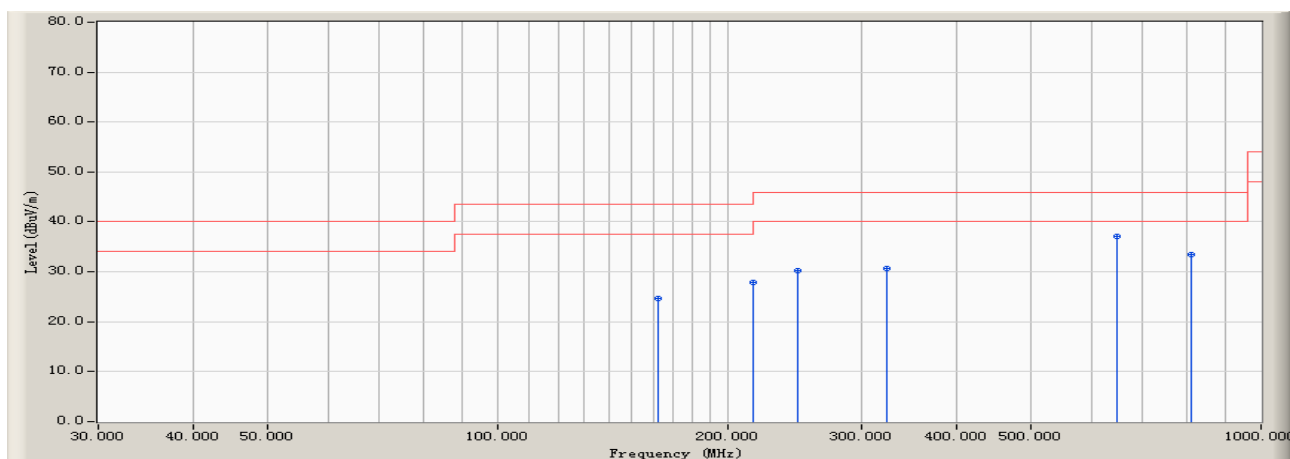
| Instrument                     | Model No.   | Manufacturer | Serial No. | Calibration Date |
|--------------------------------|-------------|--------------|------------|------------------|
| EMI Test Receiver              | R&S         | ESCI         | 100564     | 2008.06.30       |
| Preamplifier                   | Agilent     | 87405B       | My39500554 | 2008.11.04       |
| Preamplifier                   | R&S         | PR-AMP26     | 1248791    | 2008.06.30       |
| Ultra Broadband Antenna        | R&S         | HL562        | 100362     | 2008.11.04       |
| Broad-Band Horn Antenna        | Schwarzbeck | BBHA9120D    | 9120D-619  | 2008.09.26       |
| Spectrum Analyzer              | R&S         | FSP40        | 100324     | 2008.09.28       |
| Temperature/<br>Humidity Meter | Zhicheng    | ZC1-11       | CEP-TH-001 | 2008.09.24       |



#### 4.5. Test Result and Data

Under 1G:

|                            |                                                        |
|----------------------------|--------------------------------------------------------|
| Site : EMC Lab AC 102      | Time : 2009/04/23 - 23:09                              |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                             |
| EUT : LCD Monitor          | Probe : HL562(30-1000MHz) - HORIZONTAL                 |
| Power : AV120V/60HZ        | Note : Mode 1: Full system by VGA mode(1920*1080/60Hz) |



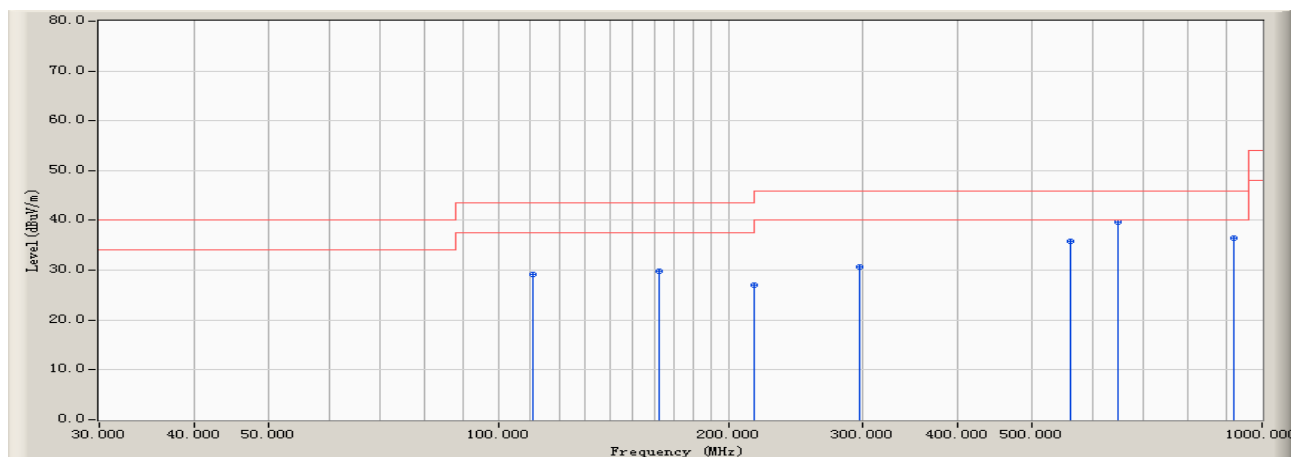
|   |   | Frequency<br>(MHz) | Correct<br>Factor (dB) | Reading<br>Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector<br>Type | Ant Pos<br>(cm) | Table<br>Pos<br>(deg) |
|---|---|--------------------|------------------------|----------------------------|------------------------------|----------------|-------------------|------------------|-----------------|-----------------------|
| 1 |   | 162.400            | -15.493                | 40.100                     | 24.607                       | -18.893        | 43.500            | QUASIPeAK        | 200.000         | 120.000               |
| 2 |   | 216.500            | -14.459                | 42.400                     | 27.942                       | -18.058        | 46.000            | QUASIPeAK        | 100.000         | 240.000               |
| 3 |   | 246.750            | -12.906                | 43.200                     | 30.293                       | -15.707        | 46.000            | QUASIPeAK        | 200.000         | 190.000               |
| 4 |   | 323.200            | -10.023                | 40.800                     | 30.777                       | -15.223        | 46.000            | QUASIPeAK        | 200.000         | 160.000               |
| 5 | * | 648.700            | -1.457                 | 38.500                     | 37.043                       | -8.957         | 46.000            | QUASIPeAK        | 200.000         | 190.000               |
| 6 |   | 809.400            | 1.303                  | 32.100                     | 33.403                       | -12.597        | 46.000            | QUASIPeAK        | 200.000         | 140.000               |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                            |                                                        |
|----------------------------|--------------------------------------------------------|
| Site : EMC Lab AC 102      | Time : 2009/04/23 - 23:10                              |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                             |
| EUT : LCD Monitor          | Probe : HL562(30-1000MHz) - VERTICAL                   |
| Power : AV120V/60HZ        | Note : Mode 1: Full system by VGA mode(1920*1080/60Hz) |



|   |   | Frequency<br>(MHz) | Correct<br>Factor (dB) | Reading<br>Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector<br>Type | Ant Pos<br>(cm) | Table<br>Pos<br>(deg) |
|---|---|--------------------|------------------------|----------------------------|------------------------------|----------------|-------------------|------------------|-----------------|-----------------------|
| 1 |   | 111.020            | -13.991                | 43.200                     | 29.209                       | -14.291        | 43.500            | QUASIPeAK        | 100.000         | 230.000               |
| 2 |   | 162.300            | -15.497                | 45.210                     | 29.713                       | -13.787        | 43.500            | QUASIPeAK        | 100.000         | 180.000               |
| 3 |   | 216.350            | -14.467                | 41.500                     | 27.033                       | -18.967        | 46.000            | QUASIPeAK        | 100.000         | 160.000               |
| 4 |   | 296.580            | -11.015                | 41.700                     | 30.685                       | -15.315        | 46.000            | QUASIPeAK        | 100.000         | 252.000               |
| 5 |   | 561.200            | -3.384                 | 39.200                     | 35.816                       | -10.184        | 46.000            | QUASIPeAK        | 100.000         | 320.000               |
| 6 | * | 648.400            | -1.468                 | 41.100                     | 39.631                       | -6.369         | 46.000            | QUASIPeAK        | 100.000         | 310.000               |
| 7 |   | 919.400            | 3.319                  | 33.200                     | 36.520                       | -9.480         | 46.000            | QUASIPeAK        | 100.000         | 150.000               |

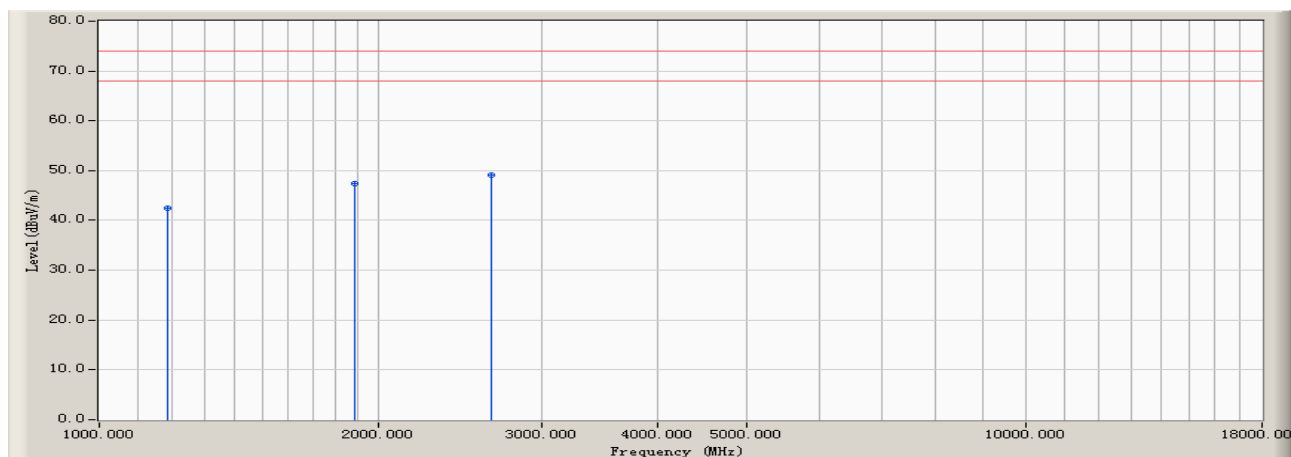
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Above 1G:

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Site : EMC Lab AC 102 | Time : 2009/04/23- 23:13                               |
| Limit : FCC 15_03M_PK | Margin : 6                                             |
| EUT : LCD Monitor     | Probe : BBHA9120D(1-18GHz) - HORIZONTAL                |
| Power : AC120V/60Hz   | Note : Mode 1: Full system by VGA mode(1920*1080/60Hz) |



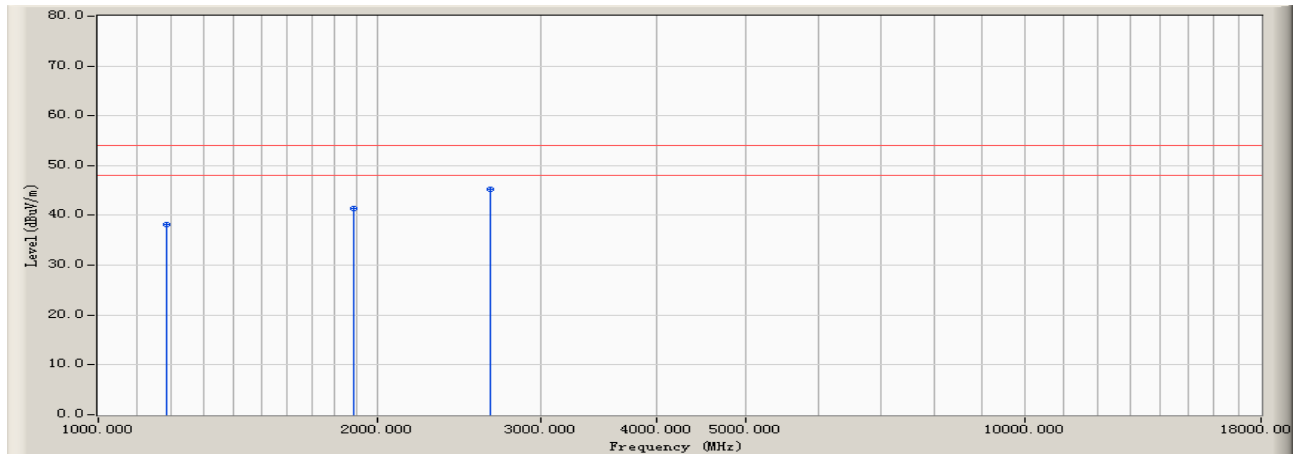
|   |   | Frequency<br>(MHz) | Correct<br>Factor (dB) | Reading<br>Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector<br>Type | Ant Pos<br>(cm) | Table<br>Pos<br>(deg) |
|---|---|--------------------|------------------------|----------------------------|------------------------------|----------------|-------------------|------------------|-----------------|-----------------------|
| 1 |   | 1185.400           | -12.035                | 54.470                     | 42.435                       | -31.565        | 74.000            | PEAK             | 200.000         | 145.000               |
| 2 |   | 1889.650           | -8.921                 | 56.230                     | 47.309                       | -26.691        | 74.000            | PEAK             | 200.000         | 310.000               |
| 3 | * | 2654.230           | -5.901                 | 55.100                     | 49.199                       | -24.801        | 74.000            | PEAK             | 200.000         | 240.000               |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Site : EMC Lab AC 102 | Time : 2009/04/23- 23:13                               |
| Limit : FCC 15_03M_AV | Margin : 6                                             |
| EUT : LCD Monitor     | Probe : BBHA9120D(1-18GHz) - HORIZONTAL                |
| Power : AC120V/60Hz   | Note : Mode 1: Full system by VGA mode(1920*1080/60Hz) |



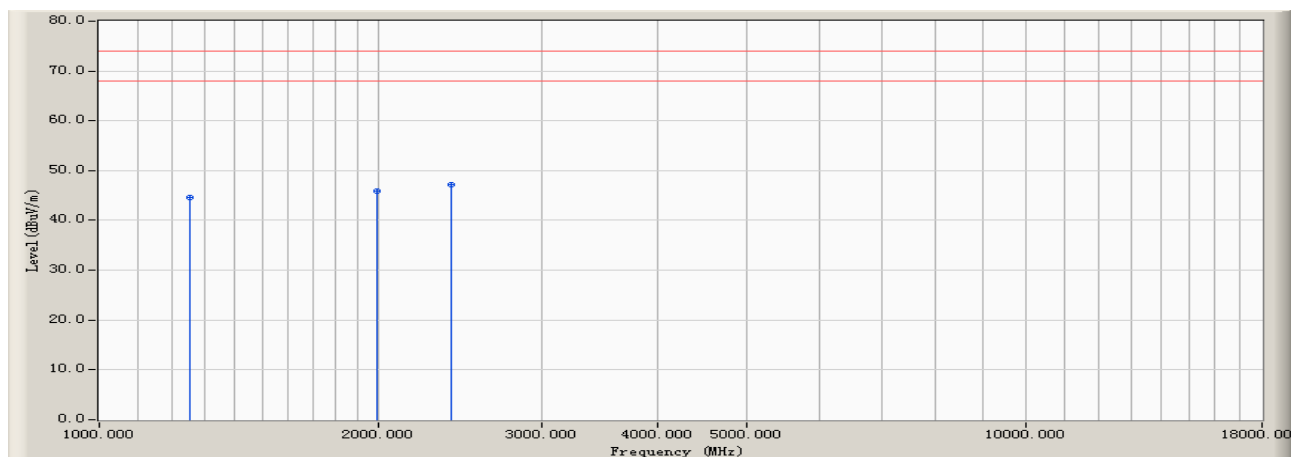
|   |   | Frequency<br>(MHz) | Correct<br>Factor (dB) | Reading<br>Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector<br>Type | Ant Pos<br>(cm) | Table<br>Pos<br>(deg) |
|---|---|--------------------|------------------------|----------------------------|------------------------------|----------------|-------------------|------------------|-----------------|-----------------------|
| 1 |   | 1185.400           | -12.035                | 50.200                     | 38.165                       | -15.835        | 54.000            | AVERAGE          | 200.000         | 145.000               |
| 2 |   | 1889.650           | -8.921                 | 50.260                     | 41.339                       | -12.661        | 54.000            | AVERAGE          | 200.000         | 310.000               |
| 3 | * | 2654.230           | -5.901                 | 51.200                     | 45.299                       | -8.701         | 54.000            | AVERAGE          | 200.000         | 240.000               |

## Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Site : EMC Lab AC 102 | Time : 2009/04/23- 23:10                               |
| Limit : FCC_15_03M_PK | Margin : 6                                             |
| EUT : LCD Monitor     | Probe : BBHA9120D(1-18GHz) - VERTICAL                  |
| Power : AC120V/60Hz   | Note : Mode 1: Full system by VGA mode(1920*1080/60Hz) |



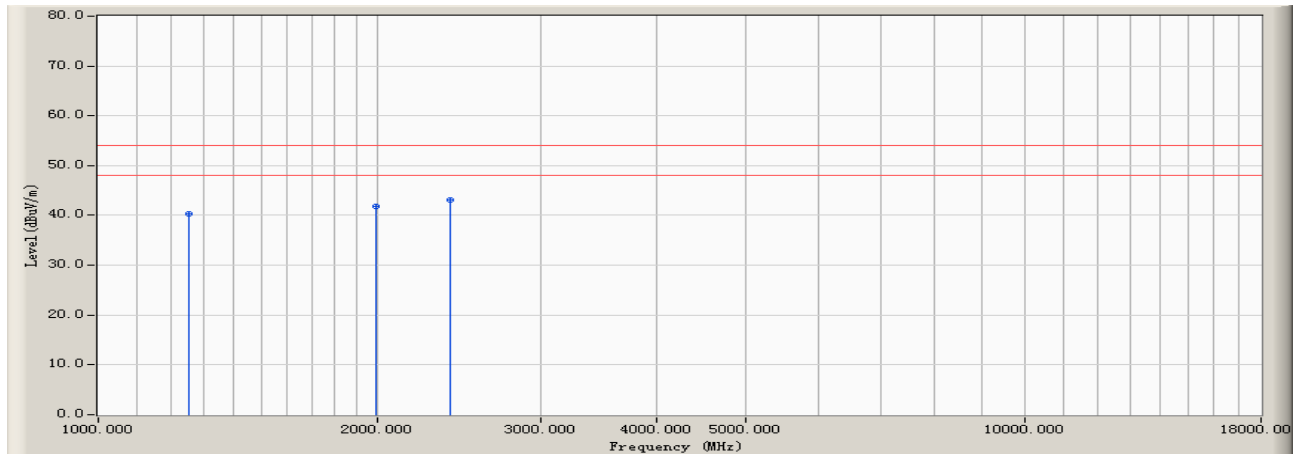
|   |   | Frequency<br>(MHz) | Correct<br>Factor (dB) | Reading<br>Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector<br>Type | Ant Pos<br>(cm) | Table<br>Pos<br>(deg) |
|---|---|--------------------|------------------------|----------------------------|------------------------------|----------------|-------------------|------------------|-----------------|-----------------------|
| 1 |   | 1254.260           | -11.768                | 56.360                     | 44.592                       | -29.408        | 74.000            | PEAK             | 100.000         | 150.000               |
| 2 |   | 1995.140           | -9.394                 | 55.310                     | 45.916                       | -28.084        | 74.000            | PEAK             | 100.000         | 230.000               |
| 3 | * | 2400.250           | -7.044                 | 54.210                     | 47.166                       | -26.834        | 74.000            | PEAK             | 100.000         | 250.000               |

## Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Site : EMC Lab AC 102 | Time : 2009/04/23- 23:10                               |
| Limit : FCC_15_03M_AV | Margin : 6                                             |
| EUT : LCD Monitor     | Probe : BBHA9120D(1-18GHz) - VERTICAL                  |
| Power : AC120V/60Hz   | Note : Mode 1: Full system by VGA mode(1920*1080/60Hz) |



|   |   | Frequency<br>(MHz) | Correct<br>Factor (dB) | Reading<br>Level<br>(dBuV) | Measure<br>Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector<br>Type | Ant Pos<br>(cm) | Table<br>Pos<br>(deg) |
|---|---|--------------------|------------------------|----------------------------|------------------------------|----------------|-------------------|------------------|-----------------|-----------------------|
| 1 |   | 1254.260           | -11.768                | 52.100                     | 40.332                       | -13.668        | 54.000            | AVERAGE          | 100.000         | 150.000               |
| 2 |   | 1995.140           | -9.394                 | 51.110                     | 41.716                       | -12.284        | 54.000            | AVERAGE          | 100.000         | 230.000               |
| 3 | * | 2400.250           | -7.044                 | 50.100                     | 43.056                       | -10.944        | 54.000            | AVERAGE          | 100.000         | 250.000               |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Fred Guo

Test engineer:\_\_\_\_\_