

|                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                            |  |                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------|
|  <b>ESTECH Co., Ltd.</b><br>Rm 1015, World Venture Center II,<br>426-5 Gasan-dong, Guncheon-gu,<br>Seoul, 158-803, Korea |     |  | <b>Electromagnetic<br/>Interference<br/>Test Report</b> |
|                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                            |  |                                                         |

## Test Report for FCC

FCC ID:BEJ50PZ850UA

|                                          |                                                                               |                                               |                                             |                     |    |
|------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------------|----|
| Report Number                            |                                                                               | ESTF151105-003                                |                                             |                     |    |
| Applicant                                | Company name                                                                  | LG Electronics USA                            |                                             |                     |    |
|                                          | Address                                                                       | 1000 Sylvan Avenue Englewood Cliffs, NJ 07632 |                                             |                     |    |
|                                          | Telephone                                                                     | 847-941-8373                                  |                                             |                     |    |
| Product                                  | Product name                                                                  | PLASMA TV/MONITOR                             |                                             |                     |    |
|                                          | Model name                                                                    | 50PZ850-UA                                    | Manufacturer                                | LG Electronics Inc. |    |
|                                          | Serial number                                                                 | NONE                                          | Country of origin                           | KOREA               |    |
| Test date                                | 25-May-11                                                                     |                                               | Date of issue                               | 30-May-11           |    |
| Testing location                         | ESTECH Co., Ltd.<br>97-1 Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea |                                               |                                             |                     |    |
| Standard                                 | FCC PART 15 (2010) & ICES-003 , ANSI C 63.4 2003                              |                                               |                                             |                     |    |
| Test item                                | <input checked="" type="checkbox"/> Conducted Emission                        | <input type="checkbox"/> Class A              | <input checked="" type="checkbox"/> Class B | Test result         | OK |
|                                          | <input checked="" type="checkbox"/> Radiated Emission                         | <input type="checkbox"/> Class A              | <input checked="" type="checkbox"/> Class B | Test result         | OK |
| Measurement facility registration number |                                                                               | 94696                                         |                                             |                     |    |
| Tested by                                | Engineer H.K.LEE                                                              |                                               | (Signature)                                 |                     |    |
| Reviewed by                              | Engineering Manager J.M.Yang                                                  |                                               | (Signature)                                 |                     |    |
| Abbreviation                             | OK, Pass = Complied, Fail = Failed, N/A = not applicable                      |                                               |                                             |                     |    |

\* Note

- This test report is not permitted to copy partly without our permission
- This test result is dependent on only equipment to be used
- This test result based on a single evaluation of one sample of the above mentioned

## Contents

|                                            |    |
|--------------------------------------------|----|
| 1. Laboratory Information .....            | 3  |
| 2. Description of EUT .....                | 4  |
| 3. Test Standards .....                    | 5  |
| 4. Measurement condition .....             | 6  |
| 5. Measurement of radiated emission .....  | 8  |
| 5.1 Measurement equipment .....            | 8  |
| 5.2 Environmental conditions .....         | 8  |
| 5.3 Test data .....                        | 9  |
| 5.4 Test data .....                        | 10 |
| 6. Measurement of conducted emission ..... | 11 |
| 6.1 Measurement equipment .....            | 11 |
| 6.2 Environmental conditions .....         | 11 |
| 6.3 Test data .....                        | 12 |
| 7. Photographs of test setup .....         | 13 |
| 8. Photographs of EUT .....                | 15 |

### Appendix 1. Spectral diagram

## 1. Laboratory Information

### 1.1 General

This EUT (Equipment Under Test) has been shown to be capable of compliance with the applicable technical standards and is tested in accordance with the measurement procedures as indicated in this report. ESTECH Lab attests to accuracy of test data. All measurement reported herein were performed by ESTECH Co., Ltd.

ESTECH Lab assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

### 1.2 Test Lab.

Corporation Name : ESTECH Co., Ltd.

Head Office : Rm 1015, World Venture Center II, 426-5, Gasan-dong, Geumcheon-gu, Seoul, Korea  
(Safety & Telecom. Test Lab)

EMC Test Lab : 97-1, Hoeok-ri, Majang-myun, Ichion-city, Kyonggi-do, South Korea

### 1.3 Official Qualification(s)

KCC : Granted Accreditation from Ministry of Information & Communication for EMC, Safety and Telecommunication

KOLAS : Accredited Lab By Korea Laboratory Accreditation Schema base on CENELEC requirements

FCC : Filed Laboratory at Federal Communications Commission

VCCI : Granted Accreditation from Voluntary Control Council for Interference from ITE

## 2. Description of EUT

### 2.1 Summary of Equipment Under Test

Product Name : PLASMA TV/MONITOR  
 Model Number : 50PZ850-UA  
 Serial Number : NONE  
 Manufacturer : LG Electronic Inc.  
 Country of origin : KOREA  
 Rating : AC (100 – 240) V , (50 – 60) Hz  
 Receipt Date : 13-May-11  
 X-tal list(s) : 4 kHz , 24 MHz , 25 MHz x 2 ea

### 2.2 General descriptions of EUT

## SPECIFICATIONS

Product specifications may be changed without prior notice due to upgrade of product functions.

|                            |                       |                                                        |
|----------------------------|-----------------------|--------------------------------------------------------|
| Television System          |                       | NTSC-M, ATSC, 64 & 256 QAM                             |
| Program Coverage           |                       | VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135 |
| External Antenna Impedance |                       | 75 $\Omega$                                            |
| Environment condition      | Operating Temperature | 0 - 40 °C                                              |
|                            | Operating Humidity    | Less than 80 %                                         |
|                            | Storage Temperature   | -20 - 60 °C                                            |
|                            | Storage Humidity      | Less than 85 %                                         |

| MODELS                            |               | 50PZ850<br>(50PZ850-UA)                                                | 60PZ850<br>(60PZ850-UA)                                                |
|-----------------------------------|---------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
|                                   |               |                                                                        | 60PZ850U<br>(60PZ850U-UA)                                              |
| Dimensions<br>(W x H x D)         | With stand    | 1168.7 mm x 777.0 mm x 349.2 mm<br>(46.0 inch x 30.5 inch x 13.7 inch) | 1387.1 mm x 920.5 mm x 395.6 mm<br>(54.6 inch x 36.2 inch x 15.5 inch) |
|                                   | Without stand | 1168.7 mm x 712.2 mm x 52.5 mm<br>(46.0 inch x 28.0 inch x 2.0 inch)   | 1387.1 mm x 834.9 mm x 52.5 mm<br>(54.6 inch x 32.8 inch x 2.0 inch)   |
| Weight                            | With stand    | 30.1 kg (66.3 lbs)                                                     | 42.0 kg (92.5 lbs)                                                     |
|                                   | Without stand | 28.1 kg (61.9 lbs)                                                     | 38.5 kg (84.8 lbs)                                                     |
| Current Value / Power consumption |               | 3.3 A / 330 W                                                          | 4.6 A / 460 W                                                          |
| Power requirement                 |               | AC100 - 240 V ~ 50 / 60 Hz                                             |                                                                        |

### 3. Test Standards

#### Test Standard : FCC PART 15 (2010) & ICES-003

This Standard sets out the regulations under which an intentional, unintentional, or incidental radiator may be operated without an individual license. It also contains the technical specifications, administrative requirements and other conditions relating to the marketing of Part 15 devices.

#### Test Method : ANSI C 63.4 (2003)

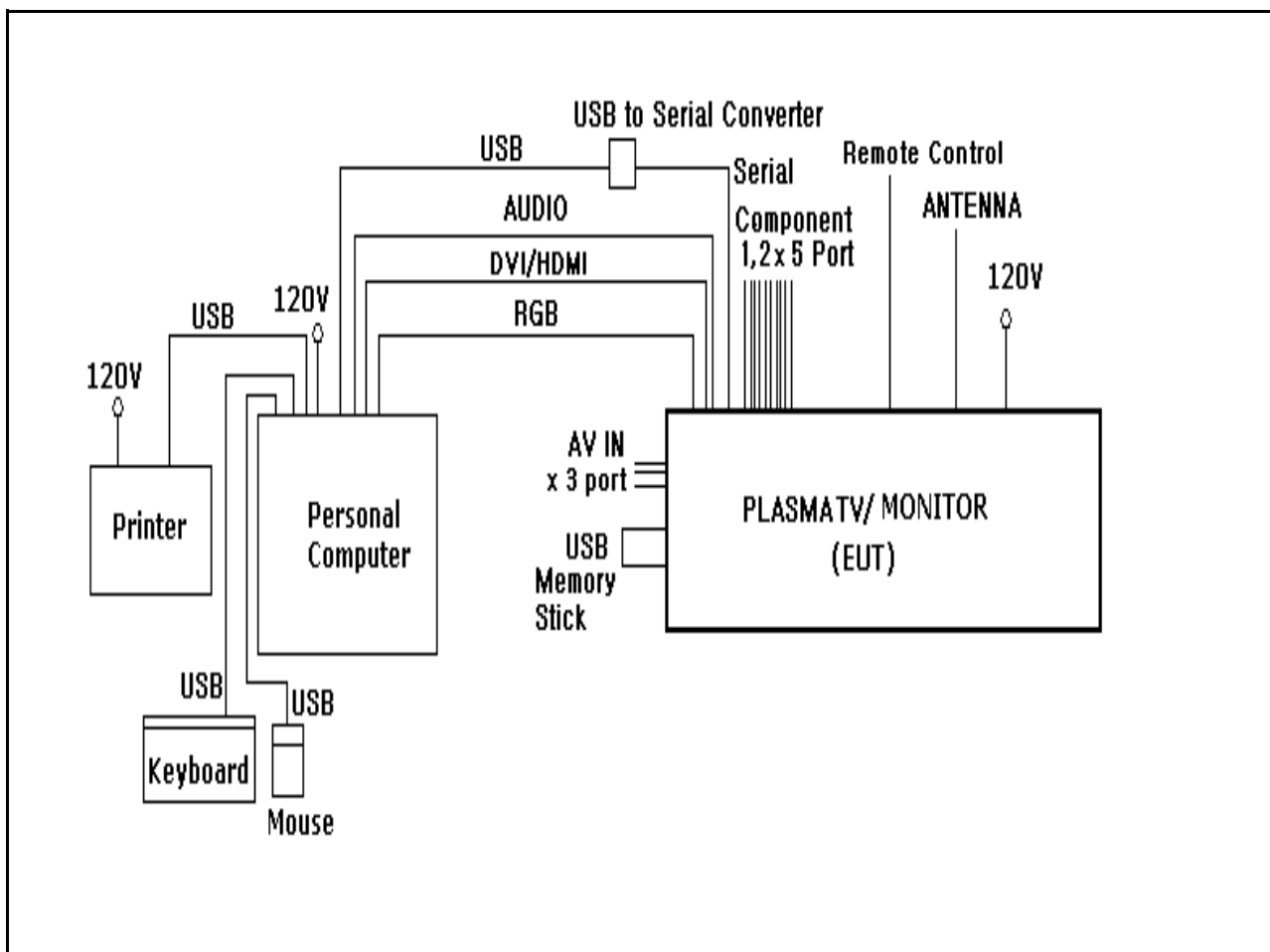
This standard sets forth uniform methods of measurement of radio-frequency (RF) signals and noise emitted from both unintentional and intentional emitters of RF energy in the frequency range 9 kHz to 40 GHz. Methods for the measurement of radiated and AC power-line conducted radio noise are covered and may be applied to any such equipment unless otherwise specified by individual equipment requirements. These methods cover measurement of certain devices that deliberately radiate energy, such as intentional emitters, but does not cover licensed transmitters. This standard is not intended for certification/approval of avionic equipment or for industrial, scientific, and medical (ISM) equipment. These methods apply to the measurement of individual units or systems comprised of multiple units.

## 4. Measurement Condition

### 4.1 EUT Operation.

- \* The EUT was in the following operation mode during all testing
- \* The operational conditions of the EUT was determined by the manufacturer according to the typical use of the EUT with respect to the expected highest level of emission
- \* After setting as test arrangement diagram, we tested the EUT under continuous displaying "H" character and playing Audio out /Video

### 4.2 Configuration and Peripherals



### 4.3 EUT and Support equipment

| Equipment Name          | Model         | S/N           | Manufacturer                         | Remark (FCC ID) |
|-------------------------|---------------|---------------|--------------------------------------|-----------------|
| PLASMA TV/MONITOR       | 50PZ850-UA    | NONE          | LG Electronics Inc.                  | EUT             |
| Personal Computer       | DCMF          | 6RKPHBX       | Dell Inc.                            | -               |
| Keyboard                | NY419AA       | CNB006B304    | HEWLETT-PACKARD COMPANY              | -               |
| Mouse                   | MO56UOA       | 507064327     | Dell Asia Pacific Sdn.               | -               |
| Printer                 | SNPRB-0921-04 | NONE          | HEWLETT-PACKARD COMPANY              | -               |
| Adapter                 | 0957-2269     | H246DZ0K8K01L | ASTEC ELECTRONICS (LUODING) Co., LTD | -               |
| USB Memory Stick        | NONE          | NONE          | NONE                                 | -               |
| USB to Serial Converter | NONE          | NONE          | NONE                                 | -               |

### 4.4 Cable Connecting

| Start Equipment   |                     | End Equipment           |          | Cable Standard |          | Remark |
|-------------------|---------------------|-------------------------|----------|----------------|----------|--------|
| Name              | I/O port            | Name                    | I/O port | Length         | Shielded |        |
| PLASMA TV/MONITOR | RGB                 | Personal Computer       | RGB      | 2              | Y        |        |
| PLASMA TV/MONITOR | HDMI                | Personal Computer       | DVI      | 2              | Y        |        |
| PLASMA TV/MONITOR | Audio               | Personal Computer       | Audio    | 2              | N        |        |
| PLASMA TV/MONITOR | Component1 x 5 port | -                       | -        | 2              | N        |        |
| PLASMA TV/MONITOR | Component2 x 5 port | -                       | -        | 2              | N        |        |
| PLASMA TV/MONITOR | AV-IN x 3 port      | -                       | -        | 2              | N        |        |
| PLASMA TV/MONITOR | Remote Control      | -                       | -        | 2              | N        |        |
| PLASMA TV/MONITOR | USB                 | USB Memory Stick        | USB      | -              | -        |        |
| PLASMA TV/MONITOR | Serial              | USB to Serial Converter | Serial   | 2              | N        |        |
| PLASMA TV/MONITOR | Antenna             | -                       | -        | 2              | Y        |        |
| Personal computer | USB                 | Keyboard                | USB      | 2              | Y        |        |
| Personal computer | USB                 | Mouse                   | USB      | 2              | Y        |        |
| Personal computer | USB                 | Printer                 | USB      | 2              | Y        |        |
| Personal computer | USB                 | USB to Serial Converter | USB      | 1              | Y        |        |
| Printer           | Power               | Adapter                 | -        | 2              | N        |        |

## 5. Measurement of radiated disturbance

Above 30 MHz Electric Field strength was measured in accordance with FCC Part 15 (2010) & ICES-003. The test setup was made according to ANSI C 63.4 (2003) on an open test site, which allows a 3m distance measurement. The EUT was placed in the center of wooden turntable. The height of this table was 0.8 m. The measurement was conducted with both horizontal and vertical antenna polarization. The turntable has fully rotated. For further description of the configuration refer to the picture of the test setup.

### 5.1 Measurement equipments

| Equipment Name        | Type      | Manufacturer    | Serial No. | Next Calibration date |
|-----------------------|-----------|-----------------|------------|-----------------------|
| TEST Receiver         | ESVS10    | Rohde & Schwarz | 838562/002 | 27-Jan-12             |
| Spectrum Analyzer     | R3273     | ADVANTEST       | 110600592  | 27-Jan-12             |
| LogBicon Antenna      | VULB 9168 | Schwarzbeck     | 237        | 15-Sep-11             |
| Amplifier             | 8447F     | HP              | 2805A02972 | 27-Jan-12             |
| Turn Table            | 2087      | EMCO            | 2129       | —                     |
| Antenna Mast          | 2070-01   | EMCO            | 9702-203   | —                     |
| ANT Mast Controller   | 2090      | EMCO            | 1535       | —                     |
| Turn Table Controller | 2090      | EMCO            | 1535       | —                     |

### 5.2 Environmental Condition

Test Place : Open site(3m)

#### HDMI mode

Temperature (°C) : 21 °C

Humidity (%) : 51 % R.H.

#### RGB mode

Temperature (°C) : 20 °C

Humidity (%) : 53 % R.H.



### 5.3 Test data (HDMI MODE)

Test Date : 25-May-11

Measurement Distance : 3 m

| Frequency<br>(MHz) | Reading<br>(dB $\mu$ V) | Position<br>(V/H) | Height<br>(m) | Correction Factor  |               | Result Value            |                          |                |
|--------------------|-------------------------|-------------------|---------------|--------------------|---------------|-------------------------|--------------------------|----------------|
|                    |                         |                   |               | Ant Factor<br>(dB) | Cable<br>(dB) | Limit<br>(dB $\mu$ V/m) | Result<br>(dB $\mu$ V/m) | Margin<br>(dB) |
| 48.00              | 22.60                   | H                 | 4.0           | 12.93              | 1.2           | 40.0                    | 36.71                    | -3.29          |
| 56.26              | 21.20                   | H                 | 4.0           | 12.50              | 1.3           | 40.0                    | 34.99                    | -5.01          |
| 120.02             | 27.30                   | V                 | 1.0           | 10.37              | 1.9           | 43.5                    | 39.57                    | -3.93          |
| 140.15             | 14.00                   | H                 | 2.4           | 12.12              | 2.1           | 43.5                    | 28.25                    | -15.25         |
| 168.00             | 21.70                   | H                 | 1.8           | 12.26              | 2.4           | 43.5                    | 36.33                    | -7.17          |
| 190.84             | 16.70                   | H                 | 1.4           | 10.31              | 2.6           | 43.5                    | 29.58                    | -13.92         |
| 196.62             | 18.40                   | H                 | 1.3           | 9.74               | 2.6           | 43.5                    | 30.75                    | -12.75         |
| 218.11             | 19.30                   | H                 | 1.0           | 10.26              | 2.8           | 46.0                    | 32.41                    | -13.59         |
| 240.47             | 14.90                   | H                 | 1.3           | 11.32              | 3.1           | 46.0                    | 29.33                    | -16.67         |
| 312.04             | 14.20                   | H                 | 1.6           | 14.25              | 3.8           | 46.0                    | 32.26                    | -13.74         |
| 347.82             | 14.10                   | H                 | 1.0           | 15.14              | 4.1           | 46.0                    | 33.32                    | -12.68         |
| 360.01             | 13.00                   | H                 | 1.0           | 15.44              | 4.2           | 46.0                    | 32.66                    | -13.34         |
| 427.52             | 19.30                   | H                 | 1.0           | 17.23              | 4.9           | 46.0                    | 41.47                    | -4.53          |
| 465.50             | 9.00                    | H                 | 1.0           | 18.32              | 5.2           | 46.0                    | 32.57                    | -13.43         |
| 549.27             | 15.40                   | V                 | 1.3           | 20.52              | 6.3           | 46.0                    | 42.21                    | -3.79          |
|                    |                         |                   |               |                    |               |                         |                          |                |
|                    |                         |                   |               |                    |               |                         |                          |                |
|                    |                         |                   |               |                    |               |                         |                          |                |
|                    |                         |                   |               |                    |               |                         |                          |                |
|                    |                         |                   |               |                    |               |                         |                          |                |
|                    |                         |                   |               |                    |               |                         |                          |                |
|                    |                         |                   |               |                    |               |                         |                          |                |
|                    |                         |                   |               |                    |               |                         |                          |                |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remark | H : Horizontal, V : Vertical TEST MODE : Resolution1 920*1 080 (60Hz) at HDMI mode (Worse Case)<br>*CL = Cable Loss-Amplifier Gain(In case of above 1 000 Mhz)<br>*CL = Cable Loss(In case of below 1 000 Mhz)<br>*The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Quasi-peak detection at frequency below 1GHz.<br>*After connect with ferrite cores to RGB cable, tested radiated emission. |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 5.3 Test data (RGB MODE)

Test Date : 25-May-11

Measurement Distance : 3 m

| Frequency<br>(MHz) | Reading<br>(dB $\mu$ V)                                                                                                                                                                                                                                                                                                                                                                                                                   | Position<br>(V/H) | Height<br>(m) | Correction Factor  |               | Result Value            |                          |                |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|--------------------|---------------|-------------------------|--------------------------|----------------|
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |               | Ant Factor<br>(dB) | Cable<br>(dB) | Limit<br>(dB $\mu$ V/m) | Result<br>(dB $\mu$ V/m) | Margin<br>(dB) |
| 46.70              | 22.60                                                                                                                                                                                                                                                                                                                                                                                                                                     | V                 | 1.0           | 12.86              | 1.2           | 40.0                    | 36.63                    | -3.37          |
| 62.28              | 22.10                                                                                                                                                                                                                                                                                                                                                                                                                                     | H                 | 4.0           | 11.90              | 1.3           | 40.0                    | 35.35                    | -4.65          |
| 120.02             | 28.20                                                                                                                                                                                                                                                                                                                                                                                                                                     | H                 | 2.6           | 10.37              | 1.9           | 43.5                    | 40.47                    | -3.03          |
| 134.04             | 17.40                                                                                                                                                                                                                                                                                                                                                                                                                                     | H                 | 2.5           | 11.59              | 2.0           | 43.5                    | 31.04                    | -12.46         |
| 168.00             | 22.30                                                                                                                                                                                                                                                                                                                                                                                                                                     | H                 | 1.5           | 12.26              | 2.4           | 43.5                    | 36.93                    | -6.57          |
| 217.88             | 26.00                                                                                                                                                                                                                                                                                                                                                                                                                                     | V                 | 1.5           | 10.25              | 2.8           | 46.0                    | 39.09                    | -6.91          |
| 233.46             | 27.80                                                                                                                                                                                                                                                                                                                                                                                                                                     | H                 | 1.3           | 10.99              | 3.0           | 46.0                    | 41.83                    | -4.17          |
| 240.03             | 17.50                                                                                                                                                                                                                                                                                                                                                                                                                                     | H                 | 1.1           | 11.30              | 3.1           | 46.0                    | 31.90                    | -14.10         |
| 326.82             | 24.40                                                                                                                                                                                                                                                                                                                                                                                                                                     | V                 | 1.0           | 14.62              | 3.9           | 46.0                    | 42.95                    | -3.05          |
| 360.03             | 18.20                                                                                                                                                                                                                                                                                                                                                                                                                                     | V                 | 1.0           | 15.44              | 4.2           | 46.0                    | 37.86                    | -8.14          |
| 373.51             | 19.60                                                                                                                                                                                                                                                                                                                                                                                                                                     | H                 | 1.0           | 15.77              | 4.4           | 46.0                    | 39.82                    | -6.18          |
| 558.93             | 12.20                                                                                                                                                                                                                                                                                                                                                                                                                                     | H                 | 1.0           | 20.76              | 6.5           | 46.0                    | 39.46                    | -6.54          |
| 960.02             | 11.80                                                                                                                                                                                                                                                                                                                                                                                                                                     | H                 | 1.0           | 26.06              | 9.5           | 54.0                    | 47.36                    | -6.64          |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |               |                    |               |                         |                          |                |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |               |                    |               |                         |                          |                |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |               |                    |               |                         |                          |                |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |               |                    |               |                         |                          |                |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |               |                    |               |                         |                          |                |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |               |                    |               |                         |                          |                |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |               |                    |               |                         |                          |                |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |               |                    |               |                         |                          |                |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |               |                    |               |                         |                          |                |
| Remark             | H : Horizontal, V : Vertical TEST MODE : Resolution1 920*1 080(60Hz) at RGB mode (Worse Case)<br>*CL = Cable Loss-Amplifier Gain(In case of above 1 000 Mhz)<br>*CL = Cable Loss(In case of below 1 000 Mhz)<br>*The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Quasi-peak detection at frequency below 1GHz.<br>*After connect with ferrite cores to RGB cable, tested radiated emission. |                   |               |                    |               |                         |                          |                |

## 6. Measurement of conducted disturbance

The continuous disturbance voltage of AC Mains in the frequency from 0.15 MHz to 30 MHz was measured in accordance to FCC Part 15 (2010) & ICES-003. The test setup was made according to ANSI C 63.4 (2003) in a shielded. The EUT was placed on a non-conductive table at least 0.8 m above the ground plan. A grounded vertical reference plane was positioned in a distance of 0.4 m from the EUT. The distance from the EUT to other metal surfaces was at least 0.8 m. The EUT was only earthen by its power cord through the line impedance stabilizing network. The power cord has been bundled to a length of 1.0 m. The test receiver with Quasi Peak detector complies with CISPR 16.

### 6.1 Measurement equipments

| Equipment Name | Type    | Manufacturer    | Serial No. | Next Calibration date |
|----------------|---------|-----------------|------------|-----------------------|
| LISN           | ESH3-Z5 | Rohde & Schwarz | 838979/010 | 27-Jan-12             |
| LISN           | ENV216  | Rohde & Schwarz | 101231     | 13-Aug-11             |
| TEST Receiver  | ESPI7   | Rohde & Schwarz | 100185     | 24-Aug-11             |
| Pulse Limiter  | ESH3Z2  | Rohde & Schwarz | NONE       | 27-Jan-12             |

### 6.2 Environmental Condition

Test Place : Shield Room  
 Temperature (°C) : 22 °C  
 Humidity (%) : 50 % R.H.

## 6.3 Test data

Test Date : 25-May-11

| Frequency<br>(MHz) | Correction Factor              |               | Line<br>(H/N) | Quasi-peak Value      |                         |                        | Average Value         |                         |                |
|--------------------|--------------------------------|---------------|---------------|-----------------------|-------------------------|------------------------|-----------------------|-------------------------|----------------|
|                    | Lisn<br>(dB)                   | Cable<br>(dB) |               | Limit<br>(dB $\mu$ V) | Reading<br>(dB $\mu$ V) | Result<br>(dB $\mu$ V) | Limit<br>(dB $\mu$ V) | Reading<br>(dB $\mu$ V) | Result<br>(dB) |
| 0.15               | -0.01                          | 0.2           | H             | 66.00                 | 44.50                   | 44.72                  | 56.00                 | 35.89                   | 36.11          |
| 0.16               | 0.00                           | 0.2           | N             | 65.67                 | 40.91                   | 41.13                  | 55.67                 | 31.73                   | 31.95          |
| 0.18               | 0.02                           | 0.2           | N             | 64.35                 | 41.50                   | 41.74                  | 54.35                 | 31.99                   | 32.23          |
| 0.20               | 0.03                           | 0.2           | H             | 63.82                 | 42.72                   | 42.96                  | 53.82                 | 34.52                   | 34.76          |
| 0.28               | 0.10                           | 0.2           | H             | 60.94                 | 37.03                   | 37.32                  | 50.94                 | 30.70                   | 30.99          |
| 0.36               | 0.11                           | 0.2           | N             | 58.64                 | 47.52                   | 47.81                  | 48.64                 | 31.72                   | 32.01          |
| 0.73               | 0.17                           | 0.2           | N             | 56.00                 | 48.68                   | 49.07                  | 46.00                 | 32.93                   | 33.32          |
| 0.94               | 0.24                           | 0.2           | N             | 56.00                 | 45.86                   | 46.34                  | 46.00                 | 34.29                   | 34.77          |
| 1.09               | 0.24                           | 0.3           | N             | 56.00                 | 41.73                   | 42.22                  | 46.00                 | 27.67                   | 28.16          |
| 1.64               | 0.58                           | 0.3           | N             | 56.00                 | 43.65                   | 44.54                  | 46.00                 | 27.30                   | 28.19          |
| 2.36               | 0.40                           | 0.4           | N             | 56.00                 | 43.97                   | 44.75                  | 46.00                 | 28.30                   | 29.08          |
| 2.73               | 0.52                           | 0.4           | N             | 56.00                 | 45.93                   | 46.86                  | 46.00                 | 29.94                   | 30.87          |
| 11.75              | 1.68                           | 1.0           | N             | 60.00                 | 48.46                   | 51.18                  | 50.00                 | 30.60                   | 33.32          |
| 12.91              | 1.61                           | 1.1           | H             | 60.00                 | 53.24                   | 55.97                  | 50.00                 | 36.29                   | 39.02          |
| 13.09              | 1.60                           | 1.1           | N             | 60.00                 | 54.42                   | 57.15                  | 50.00                 | 36.05                   | 38.78          |
| 13.63              | 1.57                           | 1.2           | N             | 60.00                 | 48.68                   | 51.42                  | 50.00                 | 32.55                   | 35.29          |
| 15.81              | 1.59                           | 1.3           | N             | 60.00                 | 41.34                   | 44.22                  | 50.00                 | 24.40                   | 27.28          |
| 17.51              | 1.51                           | 1.4           | H             | 60.00                 | 41.11                   | 43.97                  | 50.00                 | 23.57                   | 26.43          |
| Remark             | H : Hot Line, N : Neutral Line |               |               |                       |                         |                        |                       |                         |                |

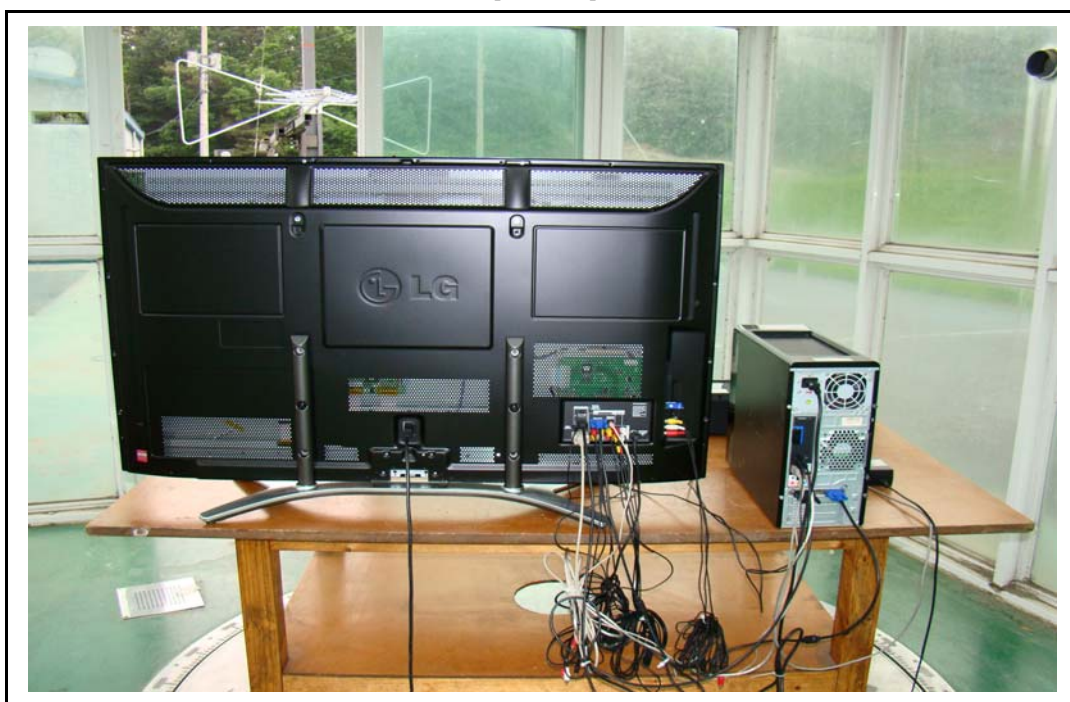
## 7. Photographs of test setup

### 7.1 Setup for Radiated Test : 30 MHz ~ 1 000 MHz

[ Front ]



[ Rear ]





## 7.2 Setup for Conducted Test : 0.15 MHz ~ 30 MHz

[ Front ]



[ Rear ]



8. Photographs of EUT

[ Front ]



[ Rear ]



# Appendix 1. Spectral diagram

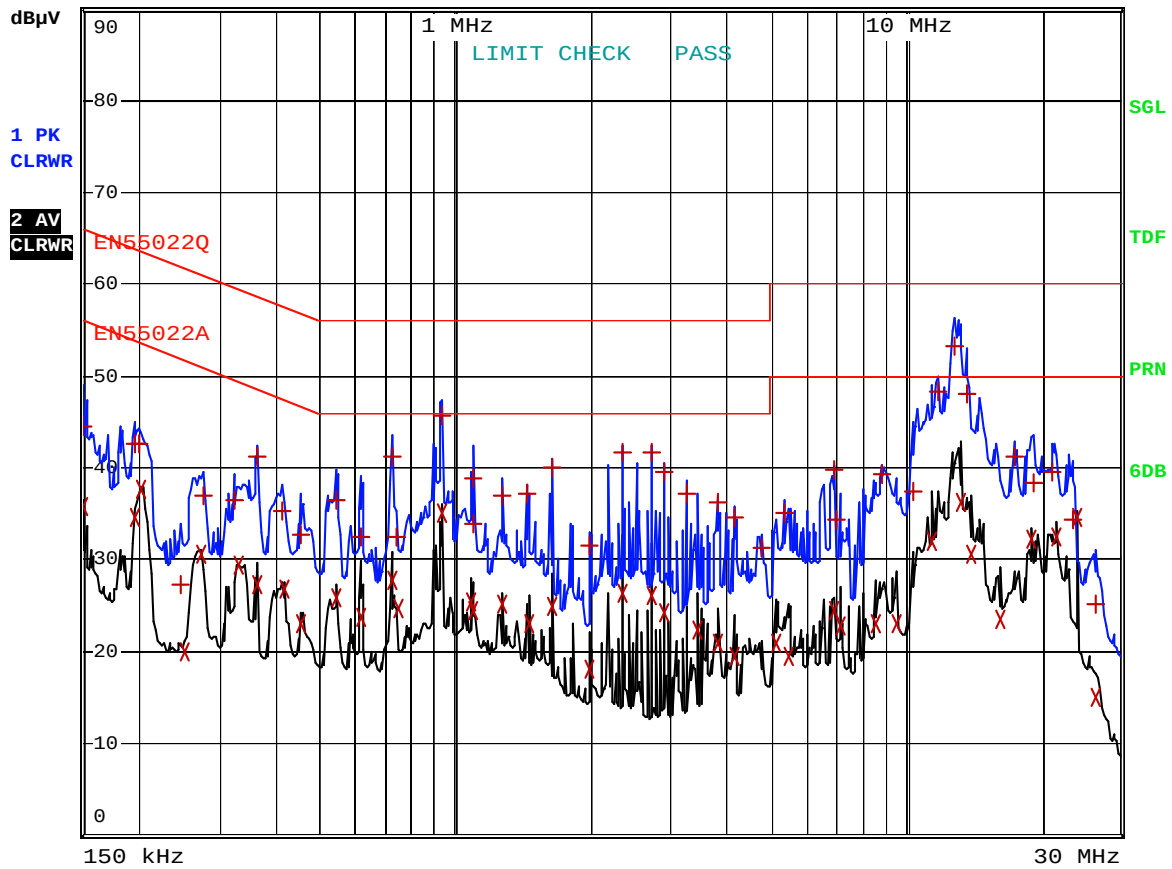
\*HOT



RBW 9 kHz

MT 1 s

Att 10 dB AUTO PREAMP OFF



Comment: 50PZ850-UA HOT  
Date: 25.MAY.2011 14:19:44



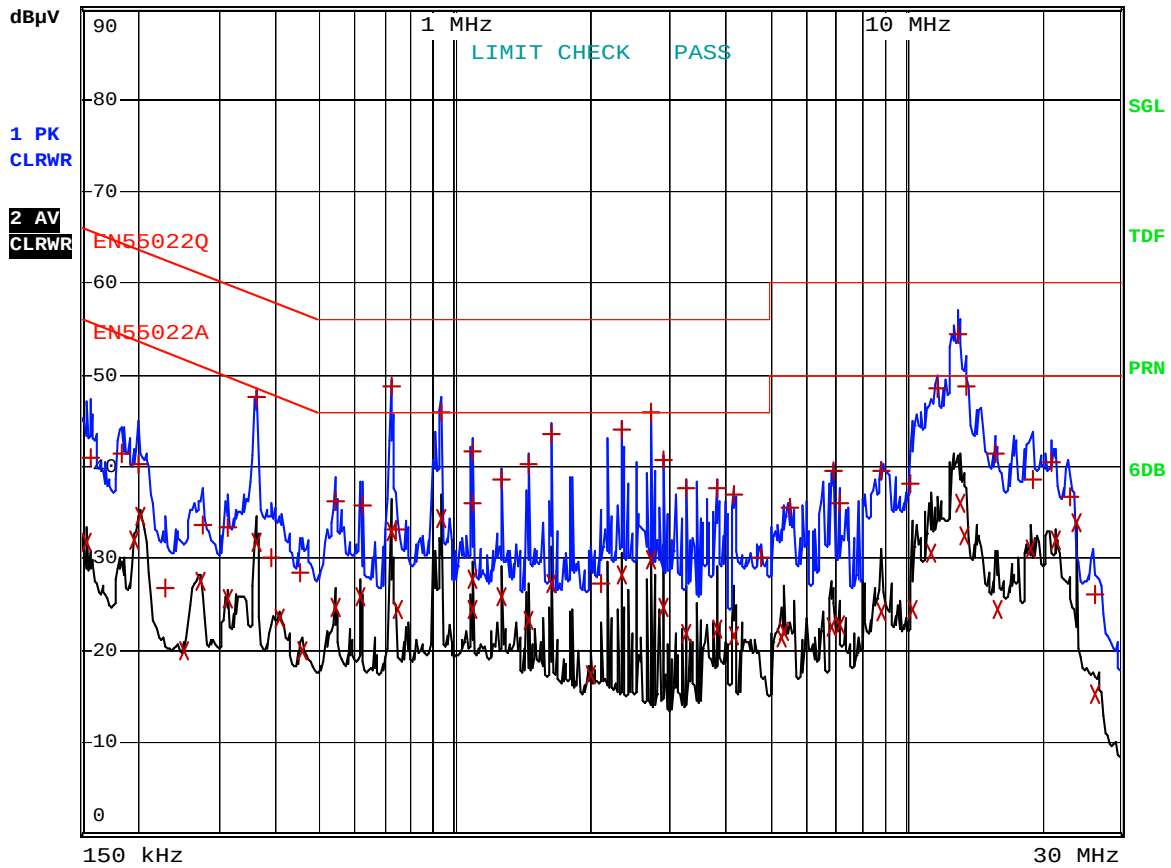
\*NEUTRAL



RBW 9 kHz

MT 1 s

Att 10 dB AUTO PREAMP OFF



Comment: 50PZ850-UA NEUTRAL  
Date: 25.MAY.2011 14:28:35