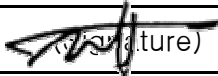


|                                                                                   |                                                                                                                          |                                                                                                                                                                                                                                                                                                                                            |                                                         |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
|  | <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

|                                                                                                                                                                                                                                             |                                                                                                                            |                                                      |                                             |                     |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------|---------------------|----|
| Report Number                                                                                                                                                                                                                               |                                                                                                                            | ESTF150609-002                                       |                                             |                     |    |
| Applicant                                                                                                                                                                                                                                   | Company name                                                                                                               | LG Electronics Inc.                                  |                                             |                     |    |
|                                                                                                                                                                                                                                             | Address                                                                                                                    | 459-9, Kasan-dong, Keumchun-ku, Seoul 153-023, Korea |                                             |                     |    |
|                                                                                                                                                                                                                                             | Telephone                                                                                                                  | 82-2-2033-3847                                       |                                             |                     |    |
| Product                                                                                                                                                                                                                                     | Product name                                                                                                               | SINGLE BAND CDMA MOBILE PHONE                        |                                             |                     |    |
|                                                                                                                                                                                                                                             | Model No.                                                                                                                  | RD6250                                               | Manufacturer                                | LG Electronics Inc. |    |
|                                                                                                                                                                                                                                             | Serial No.                                                                                                                 | NONE                                                 | Country of origin                           | KOREA               |    |
| Test date                                                                                                                                                                                                                                   | 11-Sep-06                                                                                                                  |                                                      | Date of issue                               | 12-Sep-06           |    |
| Testing location                                                                                                                                                                                                                            | ESTECH. Co., Ltd.<br>97-1 Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea                                             |                                                      |                                             |                     |    |
| Standard                                                                                                                                                                                                                                    | FCC PART 15 2006 , 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 J.H.Kim  (Signature)          |                                                      |                                             |                     |    |
| Reviewed by                                                                                                                                                                                                                                 | Manager Engineer J.M.Yang  (Signature) |                                                      |                                             |                     |    |
| Abbreviation                                                                                                                                                                                                                                | OK, Pass = Passed, Fail = Failed, N/A = not applicable                                                                     |                                                      |                                             |                     |    |
| * Note<br>- This test report is not permitted to copy partly without our permission<br>- This test result is dependent on only equipment to be used<br>- This test result based on a single evaluation of one sample of the above mentioned |                                                                                                                            |                                                      |                                             |                     |    |

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### 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 : 58-1 Osan-Ri, GaNam-Myon, YeoJoo-Gun, KyungKi-Do, Korea  
97-1 Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea

### 1.3 Official Qualification(s)

MIC : 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

NONE : SINGLE BAND CDMA MOBILE PHONE  
Model Number : RD6250  
Serial Number : NONE  
Manufacturer : LG Electronics Inc.  
Country of origin : KOREA  
Rating : INPUT:AC100~240V , 50/60Hz 0.16A Output:DC 5V,1000mA  
Receipt Date : 21-Aug-06

### 3. Test Standards

#### Test Standard : FCC PART 15 (2006)

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)

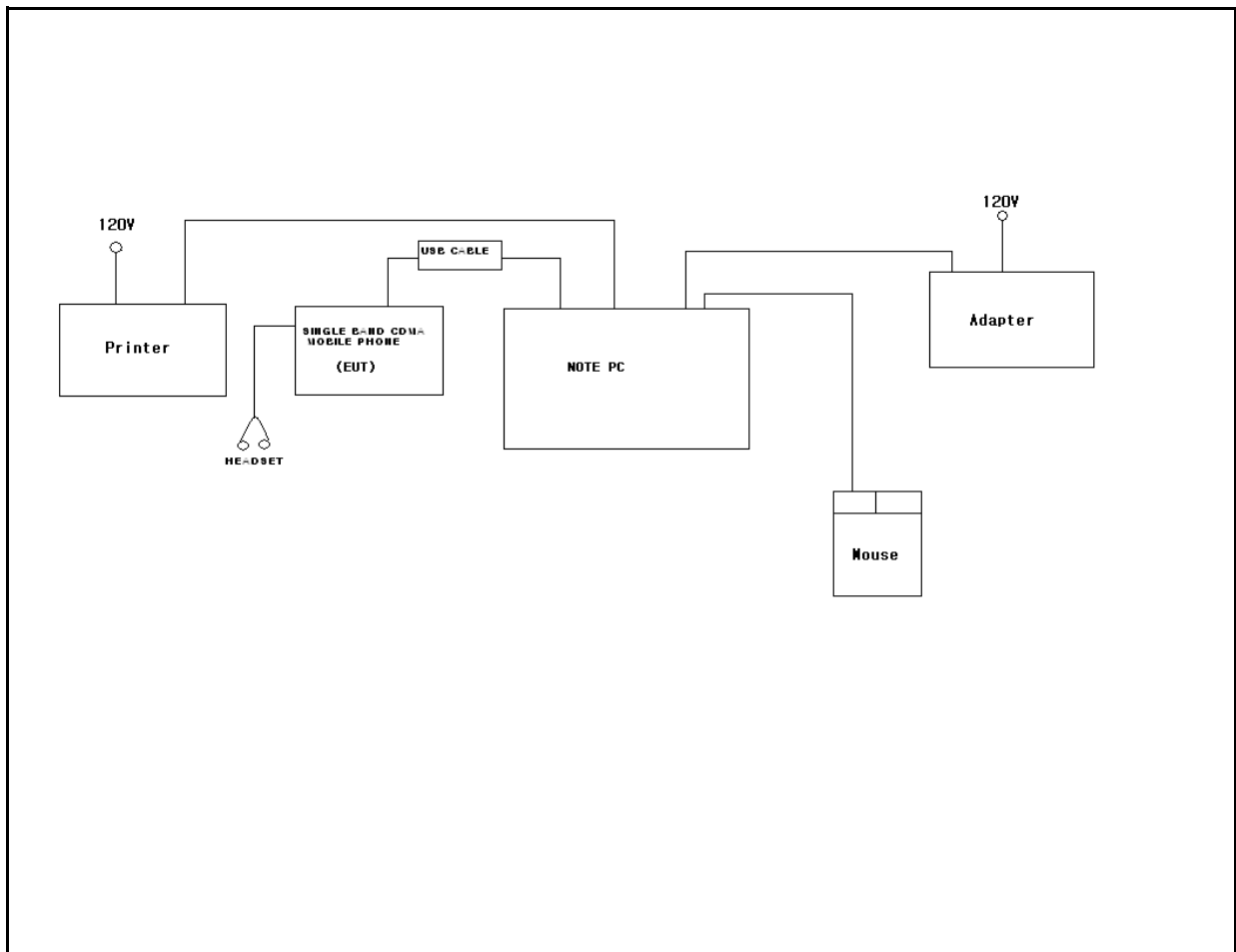
This standard sets forth uniform methods of measurement of radio-frequency (RF) signals and noise emitted from both unintentional and intentional emitters of RF energy in the frequency range 9 kHz to 40 GHz. Methods for the measurement of radiated and AC power-line conducted radio noise are covered and 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.
- \* Connect the EUT to Note PC.
- \* Install sync program to Note PC.
- \* Transferred media data between the phone and note pc during the test.

### 4.2 Configuration and Peripherals



#### 4.3 EUT and Support equipment

| Equipment Name                | Model Name   | S/N         | Manufacturer                  | Remark (FCC ID) |
|-------------------------------|--------------|-------------|-------------------------------|-----------------|
| SINGLE BAND CDMA MOBILE PHONE | RD6250       | NONE        | LG Electronics Inc.           | EUT             |
| NOTE PC                       | PPLLE        | 35748823888 | Dell Asia Pacific Sdn.        |                 |
| ADAPTER                       | PA-1650-05DK | DLL00       | Donggung Lite Power 2nd Plant |                 |
| MOUSE                         | M-UV83       | LNA40200502 | LOGITECH                      |                 |
| PRINTER                       | LQ-570H      | B1021095782 | Trigem Computer Inc.          |                 |
| USB CABLE                     | LG-USB8100   | KS51000305  | LG Electronics Inc.           |                 |

#### 4.4 Cable Connecting

| Start Equipment               |          | End Equipment |          | Cable Standard |          | Remark |
|-------------------------------|----------|---------------|----------|----------------|----------|--------|
| Name                          | I/O port | Name          | I/O port | Length         | Shielded |        |
| SINGLE BAND CDMA MOBILE PHONE | USB      | USB Cable     | USB      | 0.5            | Y        |        |
| SINGLE BAND CDMA MOBILE PHONE | Headset  | Headset       | —        | 1              | N        |        |
| USB Cable                     | USB      | Note PC       | USB      | 1              | Y        |        |
| Note PC                       | USB      | Mouse         | USB      | 1              | N        |        |
| Note PC                       | Parallel | Printer       | Parallel | 1.5            | Y        |        |
| Note PC                       | Power    | Adapter       | —        | 1              | N        |        |
|                               |          |               |          |                |          |        |

## 5. Measurement of radiated disturbance

Above 30 MHz Electric Field strength was measured in accordance with FCC Part 15 (2006) & ANSI C 63.4 (2003). The test setup was made according to FCC Part 15 (2006) & 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 0.8m. 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 | 2007. 1. 23           |
| Spectrum Analyzer     | R3261C    | ADVANTEST       | 61720116   | 2007. 4. 19           |
| LogBicon Antenna      | VULB 9160 | Schwarzbeck     | 3142       | 2007. 5. 03           |
| Amplifier             | 8447F     | HP              | 2805A02972 | 2007. 6. 26           |
| 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)  
 Temperature (°C) : 26 °C  
 Humidity (%) : 48 %

### 5.3 Test data

Test Date : 11-Sep-06

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) |
| 48.02              | 9.40                                                                                                     | V                 | 1.0           | 12.78              | 1.1           | 40.0                    | 23.32                    | -16.68         |
| 72.14              | 10.50                                                                                                    | V                 | 1.0           | 11.02              | 1.4           | 40.0                    | 22.87                    | -17.13         |
| 110.64             | 13.40                                                                                                    | H                 | 1.8           | 11.08              | 1.6           | 43.5                    | 26.12                    | -17.38         |
| 165.12             | 16.20                                                                                                    | H                 | 1.8           | 13.92              | 2.0           | 43.5                    | 32.10                    | -11.40         |
| 201.14             | 17.20                                                                                                    | V                 | 1.0           | 10.41              | 2.2           | 43.5                    | 29.76                    | -13.74         |
| 226.94             | 14.80                                                                                                    | H                 | 1.2           | 10.93              | 2.4           | 46.0                    | 28.09                    | -17.91         |
| 233.03             | 17.10                                                                                                    | H                 | 1.1           | 11.31              | 2.4           | 46.0                    | 30.85                    | -15.15         |
| 256.14             | 13.20                                                                                                    | V                 | 1.0           | 12.06              | 2.6           | 46.0                    | 27.85                    | -18.15         |
| 300.01             | 8.40                                                                                                     | H                 | 1.0           | 13.19              | 2.9           | 46.0                    | 24.46                    | -21.54         |
| 336.01             | 11.60                                                                                                    | H                 | 1.0           | 13.99              | 3.1           | 46.0                    | 28.66                    | -17.34         |
| 375.01             | 12.40                                                                                                    | H                 | 1.0           | 14.73              | 3.2           | 46.0                    | 30.34                    | -15.66         |
| 485.01             | 12.40                                                                                                    | V                 | 1.0           | 16.93              | 3.8           | 46.0                    | 33.14                    | -12.86         |
| 500.00             | 12.50                                                                                                    | V                 | 1.0           | 17.06              | 3.8           | 46.0                    | 33.39                    | -12.61         |
| 633.01             | 10.20                                                                                                    | V                 | 1.0           | 19.40              | 4.5           | 46.0                    | 34.06                    | -11.94         |
|                    |                                                                                                          |                   |               |                    |               |                         |                          |                |
| Remark             | H : Horizontal, V : Vertical<br>*Checked in all 3 axis mode and the maximum measured data were reported. |                   |               |                    |               |                         |                          |                |

## 6. Measurement of conducted disturbance

The continuous disturbance voltage of AC Mains in the frequency from 0.15 to 30 MHz was measured in accordance to FCC Part 15 (2006) & ANSI C 63.4 (2003). The test setup was made according to FCC Part 15 (2006) & ANSI C 63.4 (2003) in a shielded. The EUT was placed on a non-conductive table at least 80 above the ground plane. A grounded vertical reference plane was positioned in a distance of 40cm from the EUT. The distance from the EUT to other metal surfaces was at least 0.8m. 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 1.0m.. 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 | 2007. 2. 27           |
| LISN           | NNLA8120A | Schwarzbeck     | NONE       | 2007. 2. 27           |
| TEST Receiver  | ESPI7     | Rohde & Schwarz | 100185     | 2007. 8. 24           |
| Pulse Limiter  | ESH3Z2    | Rohde & Schwarz | NONE       | 2007. 6. 15           |

### 6.2 Environmental Condition

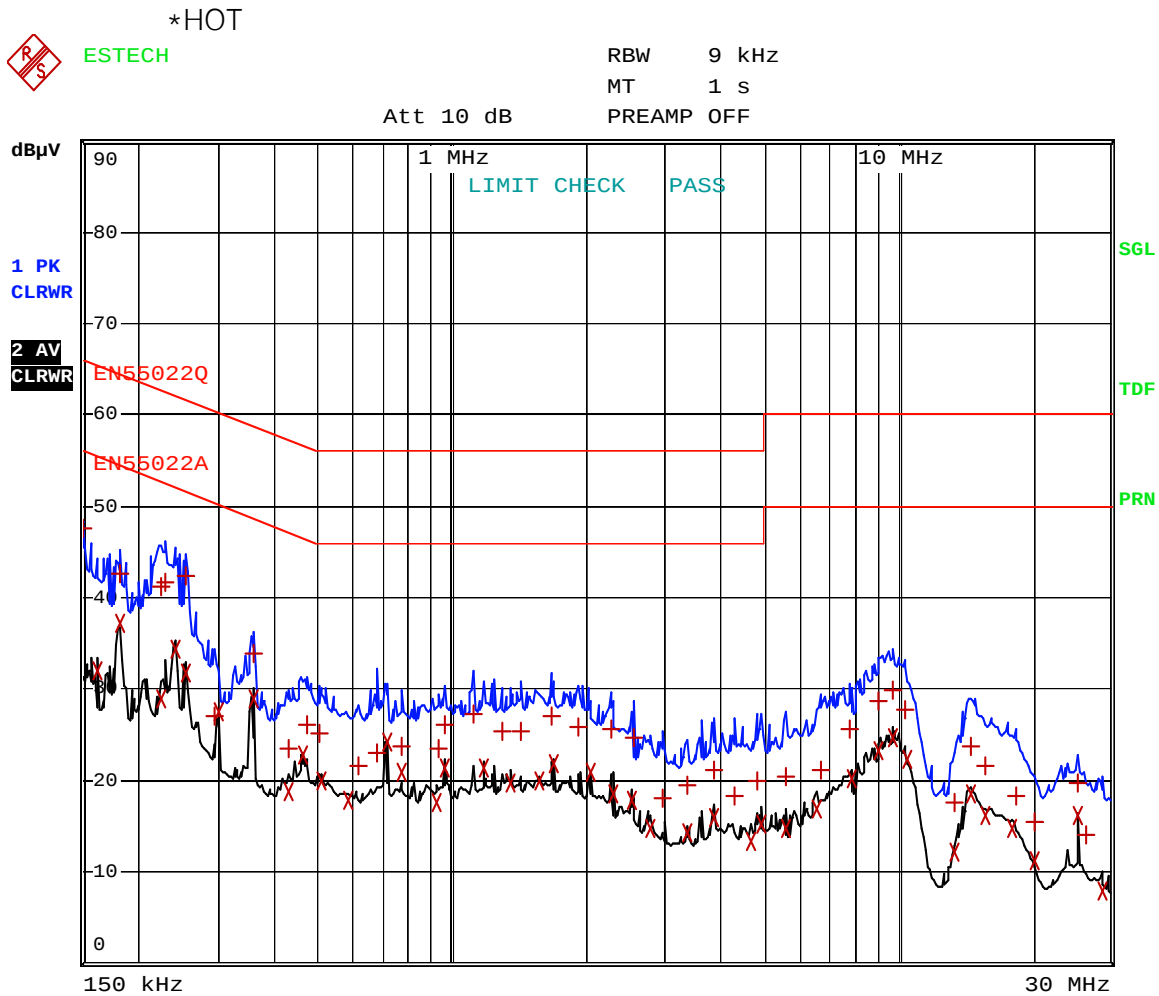
Test Place : Shield Room  
 Temperature (°C) : 22°C  
 Humidity (%) : 52%

## 6.3 Test data

Test Date : 11-Sep-06

| 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               | 0.07                           | 0.0           | N             | 66.00                 | 48.21                   | 48.28                  | 56.00                 | 33.73                   | 33.80          |
| 0.18               | 0.07                           | 0.0           | H             | 64.49                 | 42.66                   | 42.75                  | 54.49                 | 37.16                   | 37.25          |
| 0.20               | 0.07                           | 0.0           | N             | 63.45                 | 38.76                   | 38.87                  | 53.45                 | 29.91                   | 30.02          |
| 0.22               | 0.07                           | 0.0           | H             | 62.71                 | 41.22                   | 41.34                  | 52.71                 | 28.86                   | 28.98          |
| 0.23               | 0.07                           | 0.1           | H             | 62.52                 | 41.61                   | 41.73                  | 52.52                 | 34.32                   | 34.44          |
| 0.26               | 0.07                           | 0.1           | H             | 61.59                 | 42.41                   | 42.55                  | 51.59                 | 31.88                   | 32.02          |
| 0.36               | 0.07                           | 0.1           | N             | 58.77                 | 33.98                   | 34.18                  | 48.77                 | 29.57                   | 29.77          |
| 0.97               | 0.09                           | 0.2           | H             | 56.00                 | 26.17                   | 26.46                  | 46.00                 | 21.26                   | 21.55          |
| 1.12               | 0.09                           | 0.2           | H             | 56.00                 | 27.34                   | 27.64                  | 46.00                 | 21.27                   | 21.57          |
| 1.68               | 0.10                           | 0.3           | H             | 56.00                 | 27.09                   | 27.46                  | 46.00                 | 21.81                   | 22.18          |
| 2.30               | 0.12                           | 0.3           | N             | 56.00                 | 27.26                   | 27.68                  | 46.00                 | 20.52                   | 20.94          |
| 8.76               | 0.33                           | 0.5           | N             | 60.00                 | 28.28                   | 29.12                  | 50.00                 | —                       | —              |
| 9.09               | 0.34                           | 0.5           | H             | 60.00                 | 28.60                   | 29.48                  | 50.00                 | 23.96                   | 24.84          |
| 9.20               | 0.34                           | 0.5           | N             | 60.00                 | 28.25                   | 29.13                  | 50.00                 | —                       | —              |
| 9.76               | 0.35                           | 0.6           | H             | 60.00                 | 29.85                   | 30.79                  | 50.00                 | —                       | —              |
| 10.41              | 0.38                           | 0.6           | H             | 60.00                 | 27.75                   | 28.75                  | 50.00                 | 22.43                   | 23.43          |
|                    |                                |               |               |                       |                         |                        |                       |                         |                |
|                    |                                |               |               |                       |                         |                        |                       |                         |                |
|                    |                                |               |               |                       |                         |                        |                       |                         |                |
|                    |                                |               |               |                       |                         |                        |                       |                         |                |
|                    |                                |               |               |                       |                         |                        |                       |                         |                |
|                    |                                |               |               |                       |                         |                        |                       |                         |                |
|                    |                                |               |               |                       |                         |                        |                       |                         |                |
| Remark             | H : Hot Line, N : Neutral Line |               |               |                       |                         |                        |                       |                         |                |

# Appendix 1. Spectral diagram



Comment: RD6250 HOT  
Date: 11.SEP.2006 11:09:45



ESTECH

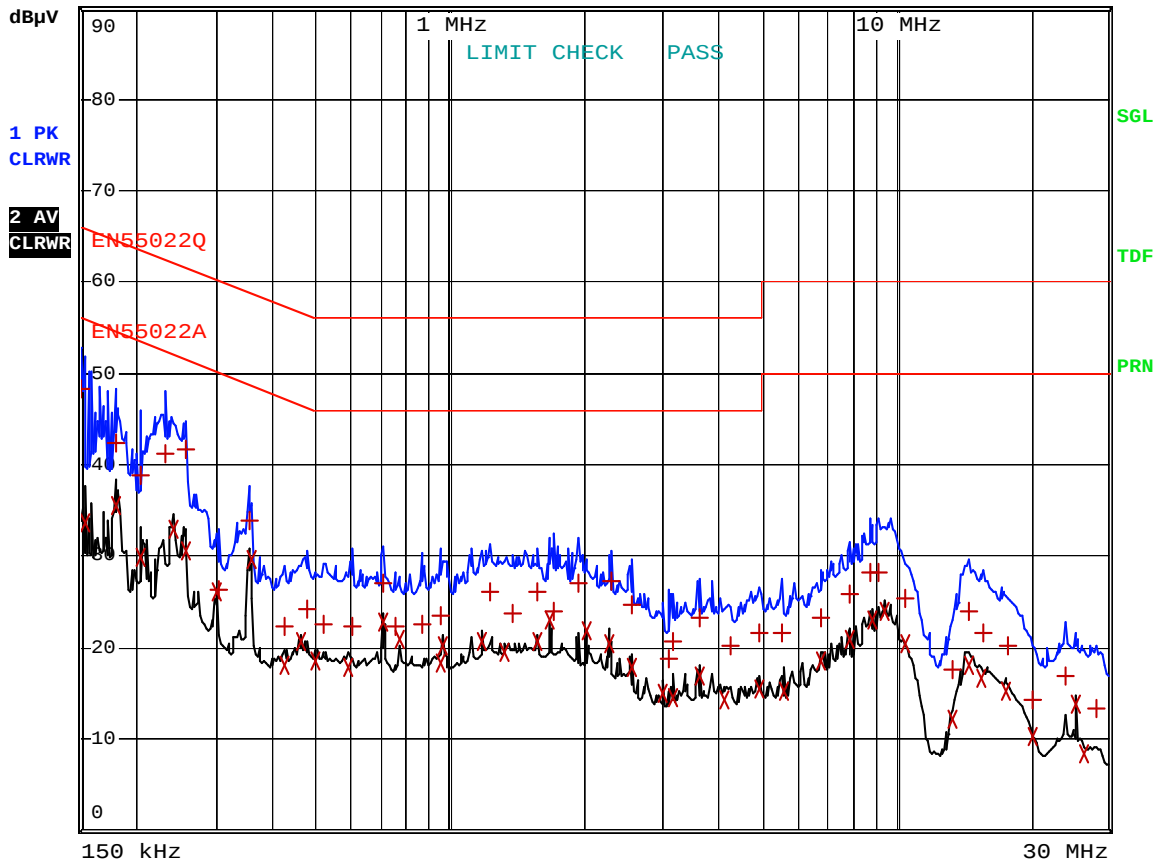
\*NEUTRAL

RBW 9 kHz

MT 1 s

Att 10 dB

PREAMP OFF



Comment: RD6250 NEUTRAL

Date: 11.SEP.2006 11:16:07