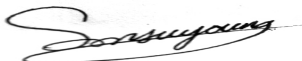


# EMC TEST REPORT

|                                                                                                                                                                               |                                |                                                                                                                                            |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---|
| <b>Project No.</b>                                                                                                                                                            | LBE20133373                    | <b>Issue No.</b>                                                                                                                           | 0 |
| <b>Applicant</b>                                                                                                                                                              | <b>Name of organization</b>    | Samsung Electronics Co., Ltd.                                                                                                              |   |
|                                                                                                                                                                               | <b>Address</b>                 | (Maetan dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, Republic of Korea                                             |   |
|                                                                                                                                                                               | <b>Date of application</b>     | June 5, 2013                                                                                                                               |   |
| <b>EUT</b>                                                                                                                                                                    | <b>Type of device</b>          | <input checked="" type="checkbox"/> Class B personal computers and peripherals<br><input type="checkbox"/> All other devices               |   |
|                                                                                                                                                                               | <b>Equipment authorization</b> | <input type="checkbox"/> Declaration of Conformity <input checked="" type="checkbox"/> Certification <input type="checkbox"/> Verification |   |
|                                                                                                                                                                               | <b>FCC ID</b>                  | A3LSHVE400S                                                                                                                                |   |
|                                                                                                                                                                               | <b>Kind of product</b>         | Mobile Phone                                                                                                                               |   |
|                                                                                                                                                                               | <b>Model No.</b>               | SHV-E400S                                                                                                                                  |   |
|                                                                                                                                                                               | <b>Variant Model No.</b>       | Refer to clause 4.6                                                                                                                        |   |
|                                                                                                                                                                               | <b>Manufacturer</b>            | SAMSUNG ELECTRONICS CO., LTD.<br>94-1, Imsu-dong, Gumi-si, Gyengsangbuk-do, 730-722, Republic of Korea                                     |   |
| <b>Applied Standards</b>                                                                                                                                                      |                                | FCC Part 15, Subpart B, Class B / ANSI C63.4-2003                                                                                          |   |
| <b>Test Period</b>                                                                                                                                                            |                                | June 12, 2013                                                                                                                              |   |
| <b>Issue date</b>                                                                                                                                                             |                                | June 26, 2013                                                                                                                              |   |
| <b>Test result : Complied</b><br>The equipment under test has found to be compliant with the applied standards.<br>(Refer to the attached test result for more detail.)       |                                |                                                                                                                                            |   |
| <b>Tested by</b> : Su-Young Son<br>                                                        |                                | <b>Reviewed by</b> : Tae-Young Jang<br>               |   |
| The test results in this report only apply to the tested sample. This report must not be reproduced, except in full, without written permission from CS & Environment center. |                                |                                                                                                                                            |   |
|                                                                                            |                                |                                                                                                                                            |   |
| (Maetan dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-so, 443-742, Republic of Korea<br>Tel: 82 31 279 1750, Fax: 82 31 279 1745                                    |                                |                                                                                                                                            |   |

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# 1. Report Information

## 1.1 Revision history

| No.     | Revised detailed information |
|---------|------------------------------|
| Issue 0 | - LBE20133373 (SAMSUNG)      |

# 2. Summary of test results

## 1.1 Emission

The EUT has been tested according to the following specifications:

| Applied                             | Test type                             | Applied standard                                     | Result   |
|-------------------------------------|---------------------------------------|------------------------------------------------------|----------|
| <input checked="" type="checkbox"/> | Conducted Disturbance<br>(Mains port) | FCC Part 15 Subpart B / ANSI C63.4-2003<br>(Class B) | Complied |
| <input checked="" type="checkbox"/> | Radiated Disturbance                  |                                                      | Complied |

# 3. General Information

## 3.1 Test facility

The CS & Environment center is located on Samsung Electronics Co., Ltd. at (Maetan dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea.

All testing are performed in Semi-anechoic chambers conforming to the site attenuation characteristics defined by ANSI C63.4, CISPR 22, 16-1 and 16-2. and Shielded rooms.

The CS & Environment center is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

## 4. Test Setup configuration

### 4.1 Test Peripherals

The cables used for these peripherals are either permanently attached by the peripheral manufacturer or coupled with an assigned cable as defined below.

The following is a listing of the EUT and peripherals utilized during the performance of EMC test:

| Mark | Description       | Model No.                   | Serial No.       | Manufacturer / Trademark | FCC ID / DoC |
|------|-------------------|-----------------------------|------------------|--------------------------|--------------|
| A    | Mobile Phone      | SHV-E400S                   | -                | SAMSUNG                  | A3LSHVE400S  |
| B    | Battery           | B160BK                      | NAaD420SS/2-B    | NPTech                   | -            |
| D    | Data Cable        | ECB-DU4EWE                  | SJ1D130DS E      | Cresyn                   | -            |
| E    | Micro SD Card     | 16GB                        | -                | SANDISK                  | -            |
| F    | Desk-Top Computer | HP Compaq dx2200 Microtower | CNG7060LW0       | HP                       | DoC          |
| G    | LCD TV Monitor    | CF19MS                      | CF19H1LS700048Y  | SAMSUNG                  | DoC          |
| H    | Mouse             | N3+Optical                  | K034729902       | HP                       | DoC          |
| I    | Keyboard          | SDM8500P                    | 8M000131         | SAMSUNG                  | DoC          |
| J    | Gigabit Switch 8  | 3CGSU08                     | AB/9XRQAC0024825 | 3COM                     | DoC          |
| K    | Power Supply      | PW150                       | KA1203N03        | AULT                     | DoC          |

### 4.2 EUT operating mode

To achieve compliance applied standard specification, the following mode(s) were made during compliance testing:

|                         |                               |
|-------------------------|-------------------------------|
| <b>Operating Mode 1</b> | USB Mode (Data Communication) |
|-------------------------|-------------------------------|

### 4.3 Details of Sampling

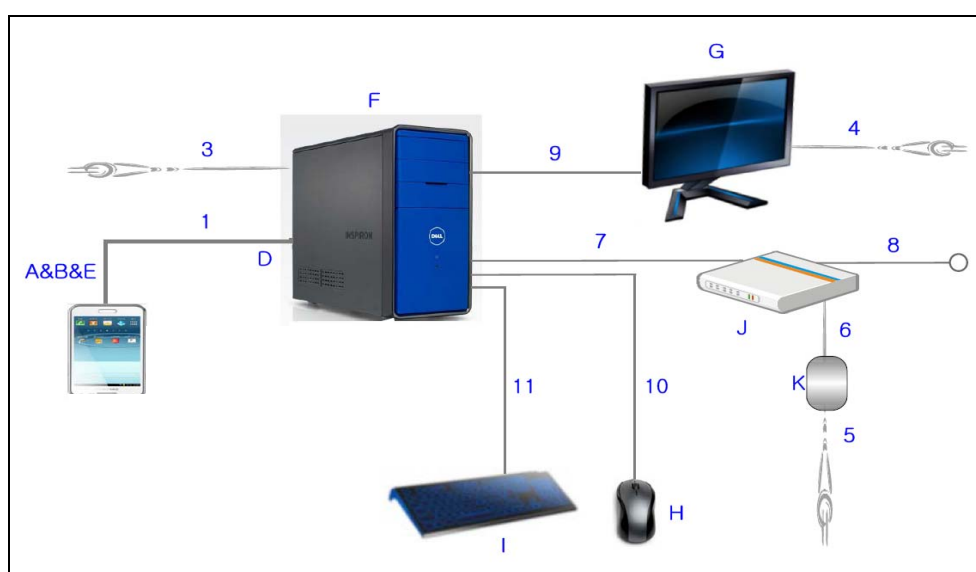
Customer selected, single unit.

## 4.4 Used cable description

The EUT is configured, installed, arranged and operated in a manner consistent with typical applications. Interface cables/loads/devices are connected to at least one of each type of interface port of the EUT, and where practical, each cable shall be terminated in a device typical of actual usage. The type(s) of interconnecting cables to be used and the interface port (of the EUT) to which these were connected:

| No. | Connected cable | Length [m] | Shielded [Y/N] | Note                                        |
|-----|-----------------|------------|----------------|---------------------------------------------|
| 1   | Data Cable      | 1.5        | Y              | From EUT to Desk-Top Computer               |
| 3   | Power           | 1.8        | N              | For Desk-Top Computer                       |
| 4   | Power           | 1.8        | N              | For LCD TV Monitor                          |
| 5   | Power           | 1.8        | N              | From Gigabit Switch 8 to Power Supply       |
| 6   | Power           | 1.8        | N              | For Power Supply                            |
| 7   | LAN             | 1.5        | N              | From Desk-Top Computer to Gigabit Switch 8  |
| 8   | LAN             | 1.5        | N              | From Gigabit Switch 8 to Local Area Network |
| 9   | RGB             | 1.8        | Y              | From Desk-Top Computer to LCD TV Monitor    |
| 10  | PS/2            | 1.8        | Y              | From Desk-Top Computer to Mouse             |
| 11  | PS/2            | 1.8        | Y              | From Desk-Top Computer to Keyboard          |

## 4.5 Test arrangement



## 4.6 EUT Description

4.6.1 The following features describe EUT represented by this report:

| Item                       | Specification |                                                        |
|----------------------------|---------------|--------------------------------------------------------|
| Operating Temperature (°C) | -20 ~ +60     |                                                        |
| Operating Humidity (%)     | 0 ~ 95        |                                                        |
| Frequency Range            | GSM850        | TX : 824.2 ~ 848.8 MHz<br>RX : 869.2 ~ 893.8 MHz       |
|                            | GSM1900       | TX : 1 850.2 ~ 1909.8 MHz<br>RX : 1 930.2 ~ 1989.8 MHz |
|                            | LTE B4        | TX : 1 710 ~ 1 755 MHz<br>RX : 2 110 ~ 2 155 MHz       |
|                            | LTE B13       | TX : 777 ~ 787 MHz<br>RX : 746 ~ 756 MHz               |

4.6.2 The variant models

- None

## 4.7 Clock Frequencies

| Kind of Clocks | Frequency [ MHz ] | Kind of Clocks | Frequency [ MHz ] |
|----------------|-------------------|----------------|-------------------|
| CPU            | 1 700             | USB 2.0        | 24                |

#### 4.8 Test configuration and condition

- ☐ The EUT exercise program which is the Samsung standardized emission test program for Windows was used while all EMC measurements were tested. This program was contained on the PC hard disk drive. Once loaded, the program sequentially exercises each system component in turn.
- ☒ The EUT was exercised during the testing by data read and write cycles repeated with internal storage devices. At the end of the test, the copied back data was compared with original.
- ☐ The EUT was connected to the PC by using USB data cable to charge.
- ☒ The system was configured for testing in a typical fashion that a customer would normally use, and was tested while in an automated non-attendant mode.

Power source for the EUT operating was supplied by CVCF made by the Pacific Power Source Corp.

**- Test Voltage : AC 120 V, 60 Hz**

## 4.9 Measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus: (According to CISPR 16-4 and UKAS Lab 34.)

### 4.9.1 Emission

| Test type                                |            | Measurement uncertainty<br>(C.L. 95 %, k = 2) |
|------------------------------------------|------------|-----------------------------------------------|
| Conducted disturbance                    | AC Mains   | $\pm 3.31$ dB                                 |
| Radiated Disturbance<br>(30 MHz ~ 1 GHz) | Horizontal | $\pm 4.69$ dB                                 |
|                                          | Vertical   | $\pm 4.83$ dB                                 |
| Radiated Disturbance<br>(1 GHz ~ 6 GHz)  | Horizontal | $\pm 4.52$ dB                                 |
|                                          | Vertical   | $\pm 4.51$ dB                                 |

## 5. Results of individual test

### 5.1 Conducted disturbance

The EUT was connected to the Desk-Top Computer which was powered from one LISN for the measurements. The support equipment power cables were connected to a second LISN.

Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration. The EUT measured in accordance with the methods described in standards.

#### Limits for conducted disturbance at the mains ports of Class B ITE

| Frequency range Limits<br>[ MHz ] | Resolution Bandwidth<br>[ kHz ] | Limits [ dB(μV) ] |          |
|-----------------------------------|---------------------------------|-------------------|----------|
|                                   |                                 | Quasi-peak        | Average  |
| 0,15 to 0,50                      | 9                               | 66 to 56          | 56 to 46 |
| 0,50 to 5                         | 9                               | 56                | 46       |
| 5 to 30                           | 9                               | 60                | 50       |

NOTE 1 The lower limit shall apply at the transition frequency.  
NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

#### 5.1.1 Test instrumentation

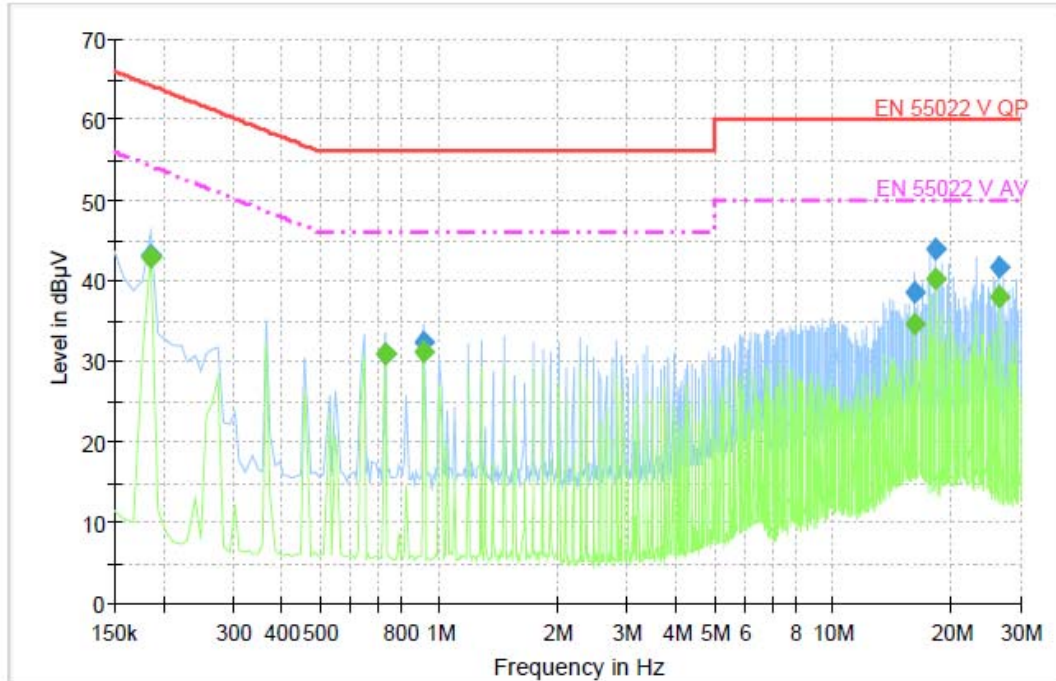
| EMC No. | Test Instrument   | Model name | Manufacturer | Serial No. | Calibration |                  |
|---------|-------------------|------------|--------------|------------|-------------|------------------|
|         |                   |            |              |            | Date        | Interval (Month) |
| E3I-266 | EMI Test Receiver | ESCI3      | R&S          | 100086     | 2012-11-27  | 12               |
| E3I-259 | LISN              | ENV216     | R&S          | 101369     | 2012-12-07  | 12               |
| E3I-260 | LISN              | ENV216     | R&S          | 101366     | 2012-09-11  | 12               |

#### 5.1.2 Temperature and humidity condition

|                   |                      |               |                             |
|-------------------|----------------------|---------------|-----------------------------|
| Test date         | 2013-06-12           | Test engineer | Su-Young Son                |
| Climate condition | Ambient temperature  |               | Limit (15.0 to 35.0) °C     |
|                   | Relative humidity    |               | Limit (25.0 to 75.0) % R.H. |
|                   | Atmospheric pressure |               | Limit (86.0 to 106.0) kPa   |
| Test place        | Shield Room (SR8)    |               |                             |

### 5.1.3 Test results

#### □ Operating Mode 1: AC Mains



#### Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.186000        | 43.2             | 15000.0         | 9.000           | On     | L1   | 10.1       | 21.00       | 64.20        |
| 0.735000        | 31.1             | 15000.0         | 9.000           | On     | L1   | 9.9        | 24.90       | 56.00        |
| 0.915000        | 32.5             | 15000.0         | 9.000           | On     | N    | 9.9        | 23.50       | 56.00        |
| 16.170000       | 38.6             | 15000.0         | 9.000           | On     | L1   | 9.8        | 21.40       | 60.00        |
| 18.366000       | 43.9             | 15000.0         | 9.000           | On     | N    | 10.0       | 16.10       | 60.00        |
| 26.610000       | 41.8             | 15000.0         | 9.000           | On     | L1   | 9.9        | 18.20       | 60.00        |

#### Final Result 2

| Frequency (MHz) | CAverage (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.186000        | 43.0            | 15000.0         | 9.000           | On     | L1   | 10.1       | 11.20       | 54.20        |
| 0.735000        | 30.9            | 15000.0         | 9.000           | On     | L1   | 9.9        | 15.10       | 46.00        |
| 0.915000        | 31.2            | 15000.0         | 9.000           | On     | N    | 9.9        | 14.80       | 46.00        |
| 16.170000       | 34.6            | 15000.0         | 9.000           | On     | L1   | 9.8        | 15.40       | 50.00        |
| 18.366000       | 40.2            | 15000.0         | 9.000           | On     | N    | 10.0       | 9.80        | 50.00        |
| 26.610000       | 38.0            | 15000.0         | 9.000           | On     | L1   | 9.9        | 12.00       | 50.00        |

Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.  
 'Final Result 1' is Quasi-peak final measurement results table and 'Final Result 2' is Average final measurement results table.

Note 2) Level (QP and/or AV) = Meter Reading (QP and/or AV) + Corr. (LISN Insertion Loss + Cable Loss)  
 Margin (QP and/or AV) = Limit – Level (QP and/or AV)  
 QP = Quasi-Peak, AV = Average

## 5.2 Radiated disturbance

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin.

Peak measurements were made over the changeable frequency range 30 MHz to 1 GHz at a measurement distance of 10 m for the following antenna and turntable arrangements:

| Antenna Height<br>[ cm ] | Antenna Polarisation | Resolution<br>Bandwidth<br>[ kHz ] | Video<br>Bandwidth<br>[ kHz ] | Turntable position<br>[ degrees ] |
|--------------------------|----------------------|------------------------------------|-------------------------------|-----------------------------------|
| 100 ~ 400                | Horizontal, Vertical | 120                                | 300                           | Continuous                        |

Measurements within 6 dB of the limit were then maximized by adjusting turntable position. Final measurements were made using quasi-peak detectors.

Peak/RMS-Average measurements were made over the changeable frequency range 1 GHz to 40 GHz or 5th harmonics of the highest frequency in accordance with internal maximum operating frequency at a measurement distance of 3 m for the following antenna and turntable arrangements:

| Antenna Height<br>[ cm ] | Antenna Polarisation | Resolution<br>Bandwidth<br>[ MHz ] | Video<br>Bandwidth<br>[ MHz ] | Turntable position<br>[ degrees ] |
|--------------------------|----------------------|------------------------------------|-------------------------------|-----------------------------------|
| 100 ~ 400                | Horizontal, Vertical | 1                                  | 3                             | Continuous                        |

Measurements within 6 dB of the limit were then maximized by adjusting turntable position. Final measurements were made using peak and RMS-average detectors.

### Limits for radiated disturbance of Class B ITE at a measuring distance of 3 m and 10 m

| Frequency range Limits<br>[ MHz ] | Field Strength          |                               |                                |
|-----------------------------------|-------------------------|-------------------------------|--------------------------------|
|                                   | 3 m [ $\mu\text{V/m}$ ] | 3 m [ dB( $\mu\text{V/m}$ ) ] | 10 m [ dB( $\mu\text{V/m}$ ) ] |
| 30 to 88                          | 100                     | 40.0                          | 29.5                           |
| 88 to 216                         | 150                     | 43.5                          | 33.0                           |
| 216 to 960                        | 200                     | 46.0                          | 35.5                           |
| Above 960                         | 500                     | 54.0                          | 43.5                           |

Results checked manually; and points close to the limit line were re-measured.

### 5.2.1 Test instrumentation

| EMC No. | Test Instrument   | Model name | Manufacturer | Serial No. | Calibration |                  |
|---------|-------------------|------------|--------------|------------|-------------|------------------|
|         |                   |            |              |            | Date        | Interval (Month) |
| E3I-003 | BILOG Antenna     | CBL6112B   | Schaffner    | 2805       | 2012-04-19  | 24               |
| E3I-130 | BILOG Antenna     | TESEQ      | CBL6112D     | 25513      | 2012-11-27  | 24               |
| E3I-213 | Preamplifier      | 317        | SONOMA       | 282424     | 2012-11-14  | 12               |
| E3I-214 | Preamplifier      | 317        | SONOMA       | 282425     | 2012-11-14  | 12               |
| E3I-268 | Horn Antenna      | HF906      | R&S          | 100291     | 2012-12-27  | 24               |
| E3I-233 | EMI TEST RECEIVER | ESU-26     | R&S          | 100364     | 2012-10-26  | 12               |
| E4I-014 | EMI TEST RECEIVER | ESU-08     | R&S          | 100084     | 2012-10-18  | 12               |

### 5.2.2 Temperature and humidity condition

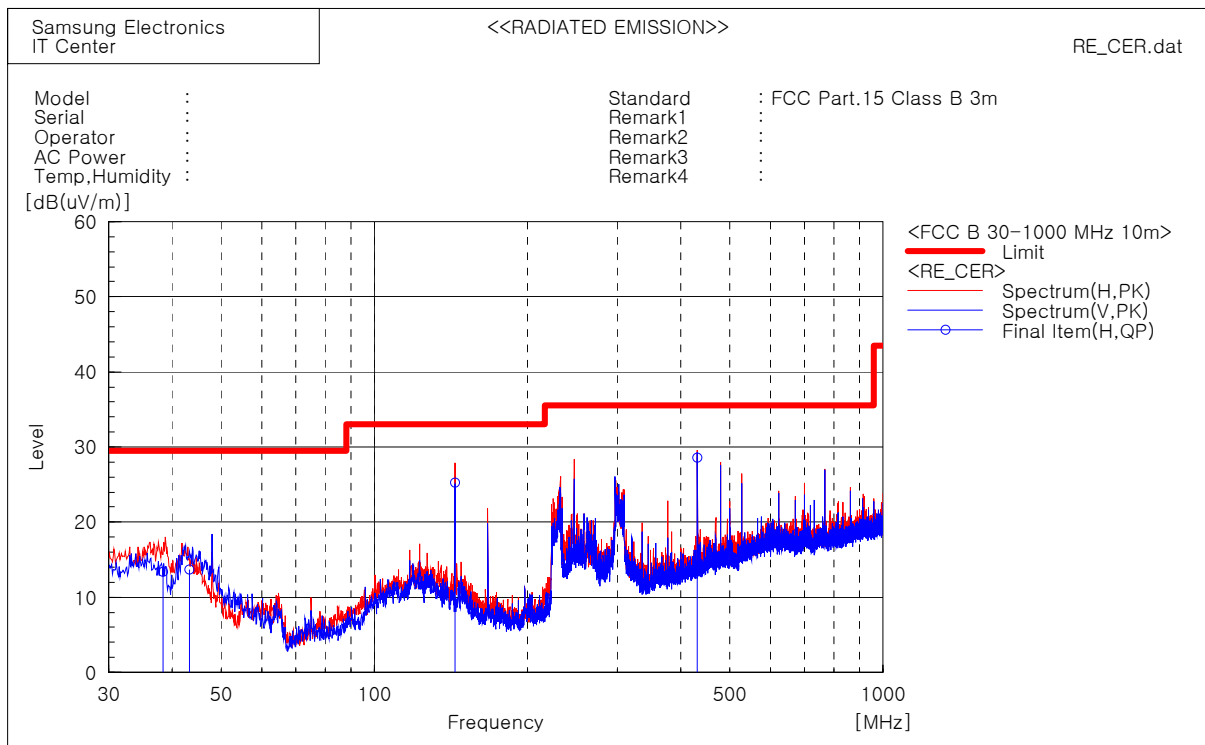
|                          |                              |                      |                             |
|--------------------------|------------------------------|----------------------|-----------------------------|
| <b>Test date</b>         | 2013-06-12                   | <b>Test engineer</b> | Su-Young Son                |
| <b>Climate condition</b> | Ambient temperature          | 21.0 °C              | Limit (15.0 to 35.0) °C     |
|                          | Relative humidity            | 48.0 % R.H.          | Limit (25.0 to 75.0) % R.H. |
|                          | Atmospheric pressure         | 101.0 kPa            | Limit (86.0 to 106.0) kPa   |
| <b>Test place</b>        | Semi-Anechoic Chamber (SAC4) |                      |                             |

## 5.2.3 Test results

### □ Operating Mode 1

- Frequency range: 30 ~ 1 000 MHz

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IT Center



#### Final Result

| No. | Frequency [MHz] | (P) | Reading QP [dB(μV)] | c.f [dB(1/m)] | Result QP [dB(μV/m)] | Limit QP [dB(μV/m)] | Margin QP [dB] | Height [cm] | Angle [deg] | System |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-------------|--------|
| 1   | 43.216          | H   | 38.0                | -24.3         | 13.7                 | 29.5                | 15.8           | 300.0       | 321.0       | 1      |
| 2   | 38.386          | H   | 35.3                | -22.0         | 13.3                 | 29.5                | 16.2           | 267.0       | 219.0       | 1      |
| 3   | 144.039         | H   | 48.5                | -23.3         | 25.2                 | 33.0                | 7.8            | 397.0       | 115.0       | 1      |
| 4   | 431.944         | H   | 44.5                | -15.9         | 28.6                 | 35.5                | 6.9            | 199.0       | 286.0       | 1      |

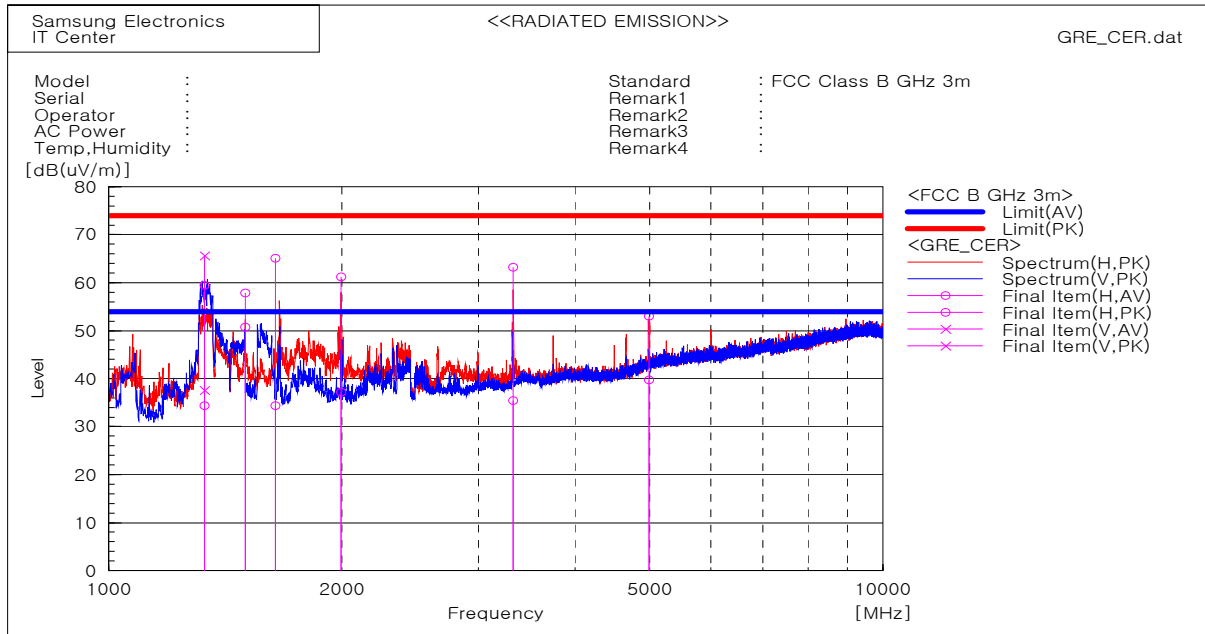
Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 10 m, Antenna Height : 1 to 4 meters

Level (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

QP = Quasi-Peak

☐ Operating Mode 1**- Frequency range: 1 000 ~ 8 000 MHz**Samsung Electronics Co., Ltd  
IT Center

## Final Result

| --- Horizontal Polarization (AV)--- |                 |                  |               |                   |                  |             |
|-------------------------------------|-----------------|------------------|---------------|-------------------|------------------|-------------|
| No.                                 | Frequency [MHz] | Reading [dB(uV)] | c.f [dB(1/m)] | Result [dB(uV/m)] | Limit [dB(uV/m)] | Margin [dB] |
| 1                                   | 1330.863        | 44.6             | -10.2         | 34.4              | 54.0             | 19.6        |
| 2                                   | 1499.983        | 59.2             | -8.4          | 50.8              | 54.0             | 3.2         |
| 3                                   | 1642.623        | 42.9             | -8.6          | 34.3              | 54.0             | 19.7        |
| 4                                   | 1996.300        | 44.3             | -7.2          | 37.1              | 54.0             | 16.9        |
| 5                                   | 3329.650        | 37.6             | -2.1          | 35.5              | 54.0             | 18.5        |
| 6                                   | 4988.980        | 36.4             | 3.3           | 39.7              | 54.0             | 14.3        |

| --- Horizontal Polarization (PK)--- |                 |                  |               |                   |                  |             |
|-------------------------------------|-----------------|------------------|---------------|-------------------|------------------|-------------|
| No.                                 | Frequency [MHz] | Reading [dB(uV)] | c.f [dB(1/m)] | Result [dB(uV/m)] | Limit [dB(uV/m)] | Margin [dB] |
| 1                                   | 1330.863        | 69.8             | -10.2         | 59.5              | 74.0             | 14.5        |
| 2                                   | 1499.983        | 66.3             | -8.4          | 57.9              | 74.0             | 16.1        |
| 3                                   | 1642.623        | 73.6             | -8.6          | 65.1              | 74.0             | 8.9         |
| 4                                   | 1996.300        | 68.4             | -7.2          | 61.2              | 74.0             | 12.8        |
| 5                                   | 3329.650        | 65.3             | -2.1          | 63.3              | 74.0             | 10.7        |
| 6                                   | 4988.980        | 49.7             | 3.3           | 53.0              | 74.0             | 21.0        |

| --- Vertical Polarization (AV)--- |                 |                  |               |                   |                  |             |
|-----------------------------------|-----------------|------------------|---------------|-------------------|------------------|-------------|
| No.                               | Frequency [MHz] | Reading [dB(uV)] | c.f [dB(1/m)] | Result [dB(uV/m)] | Limit [dB(uV/m)] | Margin [dB] |
| 1                                 | 1331.201        | 47.8             | -10.2         | 37.6              | 54.0             | 16.4        |

| --- Vertical Polarization (PK)--- |                 |                  |               |                   |                  |             |
|-----------------------------------|-----------------|------------------|---------------|-------------------|------------------|-------------|
| No.                               | Frequency [MHz] | Reading [dB(uV)] | c.f [dB(1/m)] | Result [dB(uV/m)] | Limit [dB(uV/m)] | Margin [dB] |
| 1                                 | 1331.201        | 75.8             | -10.2         | 65.7              | 74.0             | 8.3         |

Note ) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Level (PK and/or AV) = Reading (PK and/or AV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or AV) = Limit - Level (PK and/or AV)

PK = Peak, AV = Average

Project No. : LBE20133373

Mobile Phone : SHV-E400S

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