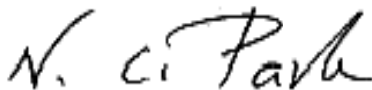


# EMC TEST REPORT

|                                                                                                                                                                                                                                                                                                                                                        |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Project No.</b>                                                                                                                                                                                                                                                                                                                                     | LBE20101227                    | <b>Issue No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                 |
| <b>Applicant</b>                                                                                                                                                                                                                                                                                                                                       | <b>Name of organization</b>    | <b>Samsung Electronics Co., Ltd.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                                                                        | <b>Address</b>                 | 416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 443-742 Korea                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                                                                        | <b>Date of application</b>     | October 14, 2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |
| <b>EUT</b>                                                                                                                                                                                                                                                                                                                                             | <b>Type of device</b>          | Class B digital devices, peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                                                                        | <b>Equipment authorization</b> | <input type="checkbox"/> Declaration of Conformity <input checked="" type="checkbox"/> Certification <input type="checkbox"/> Verification                                                                                                                                                                                                                                                                                                                                                                       |                   |
|                                                                                                                                                                                                                                                                                                                                                        | <b>FCC ID</b>                  | <b>A3LSCX4833FD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
|                                                                                                                                                                                                                                                                                                                                                        | <b>Kind of product</b>         | <b>MONO LASER MFP</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |
|                                                                                                                                                                                                                                                                                                                                                        | <b>Model No.</b>               | <b>SCX-4833FD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |
|                                                                                                                                                                                                                                                                                                                                                        |                                | <b>Variant Model No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SCX-4835FD</b> |
|                                                                                                                                                                                                                                                                                                                                                        | <b>Manufacturer</b>            | <b>Samsung Electronics Co., Ltd.</b><br>259, Gongdan-Dong, Gumi-City, Gyeongsangbuk-Do, Korea 730-030<br><b>Samsung Electronics (Shandong) Digital Printing Co.Ltd</b><br>(264209) SAMSUNG ROAD HI-TECH IDZ, WEIHAI, CHINA<br><b>Weihai Shin Heung Digital Electronics Co., Ltd.</b><br>98, Samsung Road, Weihai Hi-Tech. IDZ, Shandong Province, P.R.China<br><b>Intops : Intops (Weihai) Electronics Co., Ltd.</b><br>Keji Road-268-1 , Weihai Hi-Tech, Industries Development Zone, Shandong Province , CHINA |                   |
| <b>Applied Standards</b>                                                                                                                                                                                                                                                                                                                               |                                | FCC Part 15, Subpart B / ANSI C63.4-2003                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |
| <b>Test Period</b>                                                                                                                                                                                                                                                                                                                                     |                                | October 15, 2010 ~ October 30, 2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
| <b>Issue date</b>                                                                                                                                                                                                                                                                                                                                      |                                | November 12, 2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |
| <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> : Sung Jin Sim<br>                                                                                                                                                                                                                                 |                                | <b>Reviewed by</b> : No Cheon Park<br>                                                                                                                                                                                                                                                                                                                                                                                      |                   |
| This report is the test result about the sphere accredited by KOLAS which signed the Mutual Recognition Arrangement of International Laboratory Accreditation Cooperation.<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 SEC EMC Laboratory. |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |
| <br>416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do, 443-742 Korea<br>Tel: 82 31 277 7752, Fax: 82 31 277 7753                                                                                                                                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |

# Table of contents

## **1. Summary of test results**

### 1.1 Emission

## **2. General Information**

### 2.1 Test facility

## **3. Test configuration**

### 3.1 Test Peripherals

### 3.2 EUT operating mode

### 3.3 Details of Sampling

### 3.4 Used cable description

### 3.5 EUT Description

### 3.6 Clock Frequencies

### 3.7 Test configuration and condition

### 3.8 Measurement uncertainty

## **4. Result of individual tests**

### 4.1 Conducted disturbance

### 4.2 Radiated disturbance

## **Appendix – EUT photography**

# 1. Summary of test results

## 1.1 Emission

The EUT has been tested according to the following specifications:

| Applied                             | Test type                             | Applied standard         | Result   | Remarks             |
|-------------------------------------|---------------------------------------|--------------------------|----------|---------------------|
| <input checked="" type="checkbox"/> | Conducted Disturbance<br>(Mains Port) | FCC Part 15<br>Subpart B | Complied | Meets Class B Limit |
| <input checked="" type="checkbox"/> | Radiated Disturbance                  |                          | Complied | Meets Class B Limit |

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## 2. General Information

### 2.1 Test facility

The CS & Environment center is located on Samsung Electronics Co., Ltd. at 416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do, South 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.

## 3. Test Setup configuration

### 3.1 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:

| Description    | Model No.        | Serial No.               | Manufacturer       | Fcc ID / DoC |
|----------------|------------------|--------------------------|--------------------|--------------|
| Mono Laser MFP | SCX-4833FD       | –                        | SAMSUNG            | A3L          |
| PC             | PP18L            | 29359007709              | DELL               | DoC          |
| Dock           | PD01X            | CN-0HD026-48643-83K-2197 | DELL               | DoC          |
| Telephone      | SP-F131          | KKCTB05225               | SAMSUNG            | DoC          |
| USB MOUSE      | MOARUO           | 0740007850               | Primax Electronics | DoC          |
| Headset        | MH21             | –                        | COZY               | –            |
| USB memory     | DT Mini Slim 4GB | –                        | Kingston           | DoC          |

### 3.2 EUT operating mode

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

|                         |                             |
|-------------------------|-----------------------------|
| <b>Operating Mode 1</b> | Stand-by                    |
| <b>Operating Mode 2</b> | USB printing (Duplex)       |
| <b>Operating Mode 3</b> | Network printing (Duplex)   |
| <b>Operating Mode 4</b> | 1284 port printing (Duplex) |
| <b>Operating Mode 5</b> | DADF copy printing          |
| <b>Operating Mode 6</b> | Scan to PC                  |
| <b>Operating Mode 7</b> | Scan to USB memory stick    |
| <b>Operating Mode 8</b> | Fax transmission            |
| <b>Operating Mode 9</b> | Fax receiving               |

### 3.3 Details of Sampling

Customer selected, single unit.

### 3.4 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;

| Connected cable     | Length [m] | Shielded [Y/N] | Note               |
|---------------------|------------|----------------|--------------------|
| Power               | 1.5        | No             | -                  |
| LAN                 | 2.0        | No             | For EUT            |
| LAN                 | 2.0        | No             | For PC             |
| USB                 | 1.5        | Yes            | From PC to Mouse   |
| USB                 | 1.5        | Yes            | From EUT to PC     |
| IEEE 1284B Parallel | 1.5        | Yes            | From EUT to PC     |
| Telephone           | 2.0        | No             | From EUT to Phone  |
| Telephone           | 2.0        | No             | For EUT            |
| Headset             | 1.6        | No             | From PC to Headset |

### 3.5 EUT Description

The following features describe EUT represented by this report:

| Item                                | Specification and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor</b>                    | CHORUS3 (360 Mhz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Standard System memory</b>       | 128 MB DDR2 SDRAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Resolution</b>                   | True 600 x 600 dpi (Addressible 1 200 dpi support)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Copy Quality mode</b>            | Text : Scan 300 x 300 dpi, Print: 600 x 600 dpi (Platen, ADF)<br>Mixed : Scan 300 x 300 dpi, Print: 600 x 600 dpi (Platen, ADF)<br>Photo : Scan 300 x 300 dpi, Print: 600 x 600 dpi (ADF)<br>Scan 600 x 600 dpi, Print: 1200 x 1200 dpi (Platen)                                                                                                                                                                                                                                                           |
| <b>Paper Handling</b>               | Paper Tray(standard) 250 Sheets<br>MP Tray 50sheets                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Power Rating</b>                 | 110 ~ 127 VAC, 5 A, 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Power Consumption</b>            | Power save mode : 9 Watts<br>Printing mode: MAX. 600 Watts                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Printer Language</b>             | PCL6/PS3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>PC Interfaces</b>                | USB2.0, NW, FAX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>OS compatibility</b>             | Windows 2000/XP (32/64 bits) /Vista (32/64 bits) /2003 Server (32/64 bits) /2008 Server(32/64 bits) /7 (32/64 bits) /2008 Server R2<br>Various Linux OS:Fedora Core 4, 5, 6,Fedora 7, 8, 9, 10, 11, 12, RedHat Enterprise Linux WS 4, 5, SuSE 10.0, 10.1 openSuSE 10.2, 10.3, 11.0, 11.1, 11.2 SuSE Linux Enterprise Desktop 10, 11 Debian 4.0, 5.0 Ubuntu 5.04, 5.10, 6.04, 6.10, 7.04, 7.10, 8.04, 8.10, 9.04, 9.10 Mandriva 2005LE, 2006, 2007, 2007.1 2008, 2008.1, 2009, 2009.1<br>Mac OS 10.3 ~ 10.6 |
| <b>Modes of Operation</b>           | USB Printing, ADF Scan, ADF Copy, 1 200 dpi Printing, Fax RX, Fax TX, Network Printing                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Intended Class for Emissions</b> | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### 3.6 Clock Frequencies

| Kind of Clocks | Frequency[MHz] | Kind of Clocks | Frequency[MHz] |
|----------------|----------------|----------------|----------------|
| Main Source    | 12             | Video          | 18.993         |
| CPU Internal   | 360            | USB Device     | 12             |
| DDR2 Clock     | 166            | CIS            | 4.16           |

### 3.7 Test configuration and condition

The system was configured for testing in typical fashion use. Cables were attached to each of the available I/O Ports. Where applicable, peripherals were attached to the I/O cables. The mode of operation utilized for testing was selected to best simulate typical EUT use.

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

The EUT was measured all testing with toner cartridge.

Two different types of SMPS, Liteon, Dongyang were applied during testing.

Each SMPS was installed for testing, tested and reported.

- **Configuration 1 : Liteon SMPS was applied.**
- **Configuration 2 : Dongyang SMPS was applied.**

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

### 3.8 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.)

#### 3.8.1 Emission

| Test type                             |               | Measurement uncertainty<br>(C.L. 95 %, k = 2) |
|---------------------------------------|---------------|-----------------------------------------------|
| Conducted disturbance                 | Main terminal | 3.00 dB                                       |
| Radiated Disturbance<br>(Below 1 GHz) | Horizontal    | 4.95 dB                                       |
|                                       | Vertical      | 4.99 dB                                       |
| Radiated Disturbance<br>(Above 1 GHz) | Horizontal    | 3.32 dB                                       |
|                                       | Vertical      | 3.32 dB                                       |

## 4. Results of individual test

### 4.1 Conducted disturbance

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 A ITE

| Frequency range Limits<br>MHz                                | Resolution Bandwidth | Limits dB(μV) |         |
|--------------------------------------------------------------|----------------------|---------------|---------|
|                                                              |                      | Quasi-peak    | Average |
| 0,15 to 0,50                                                 | 9 kHz                | 79            | 66      |
| 0,50 to 30                                                   | 9 kHz                | 73            | 60      |
| NOTE The lower limit shall apply at the transition frequency |                      |               |         |

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

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

#### 4.1.1 Test instrumentation

| Test instrumentation     | Model name | Manufacturer | Serial or Firmware (No./Ver.) | Calibration |                  |
|--------------------------|------------|--------------|-------------------------------|-------------|------------------|
|                          |            |              |                               | Date        | Interval (Month) |
| Measuring receiver       | ESCI       | R&S          | 100086                        | 2009-11-19  | 12               |
| Artificial mains network | ENV216     | R&S          | 100117                        | 2009-11-11  | 12               |
| Artificial mains network | ESH3-Z5    | R&S          | 831887/004                    | 2010-07-06  | 12               |
| Test software            | EMC32      | R&S          | Ver 4.40.                     | N/A         | N/A              |

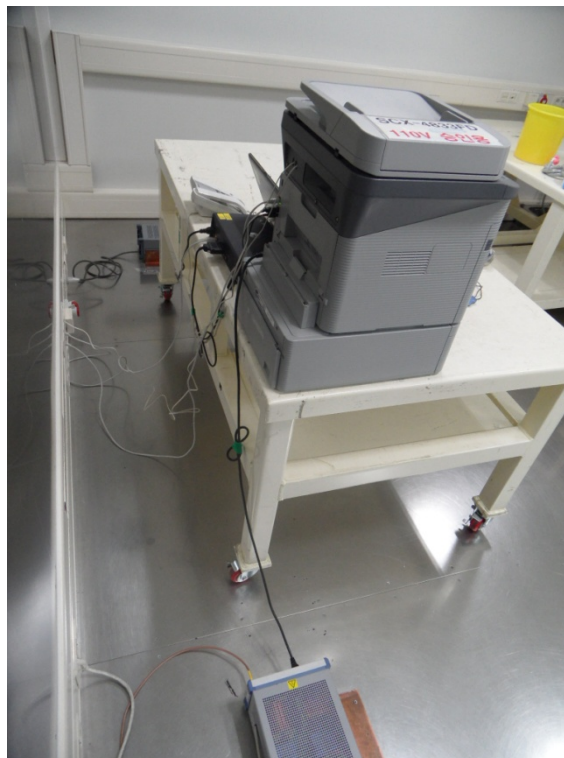
#### 4.1.2 Temperature and humidity condition

|            |                  |               |              |
|------------|------------------|---------------|--------------|
| Test date  | October 18, 2010 | Test engineer | Sung Jin Sim |
| Test place | Shielded Room #1 |               |              |

### 4.1.3 Photograph of Test Setup



**Front**



**Rear**

#### 4.1.4 Test results (mains port)

- Configuration 1 : Stand-by Mode

#### Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150kHz - 30MHz

Receiver: ESCI 3

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

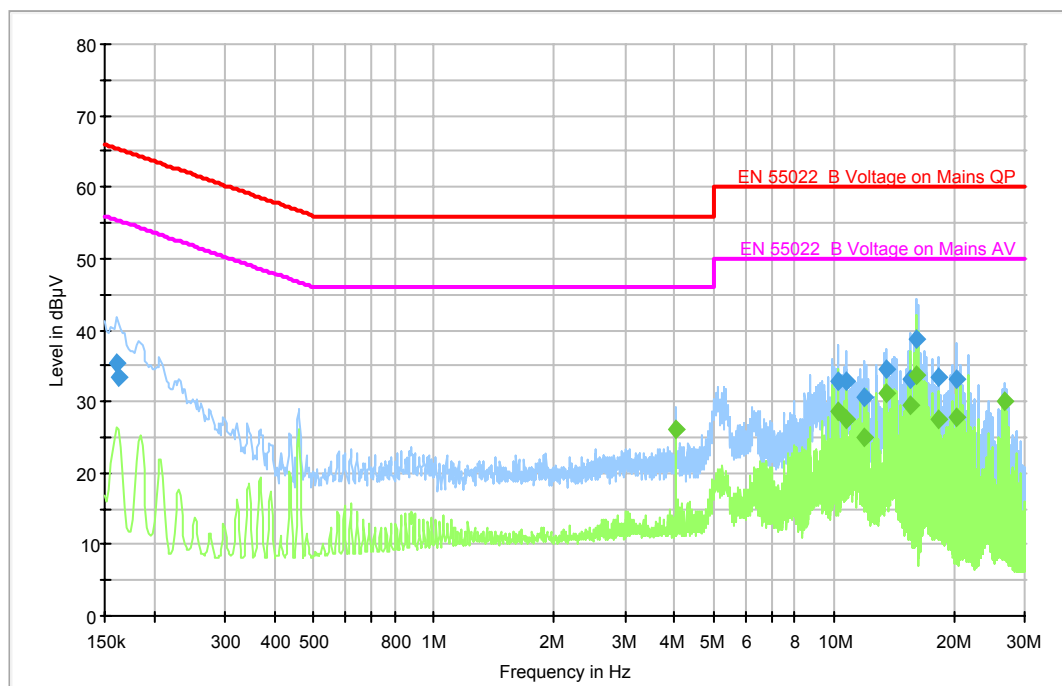
#### Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

#### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.161           | 35.4                    | L1   | 9.7        | 30.0        | 65.4               |
| 0.164           | 33.4                    | L1   | 9.7        | 31.9        | 65.3               |
| 10.243          | 32.9                    | L1   | 9.8        | 27.1        | 60.0               |
| 10.794          | 32.7                    | L1   | 9.9        | 27.3        | 60.0               |
| 11.893          | 30.6                    | L1   | 9.9        | 29.4        | 60.0               |
| 13.479          | 34.4                    | L1   | 9.9        | 25.6        | 60.0               |
| 15.616          | 33.2                    | L1   | 9.9        | 26.8        | 60.0               |
| 16.169          | 38.6                    | L1   | 10.0       | 21.4        | 60.0               |
| 18.244          | 33.5                    | L1   | 10.0       | 26.5        | 60.0               |
| 20.259          | 33.2                    | L1   | 10.0       | 26.8        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 4.032           | 26.0                 | L1   | 9.7        | 20.0        | 46.0               |
| 10.245          | 28.6                 | L1   | 9.8        | 21.4        | 50.0               |
| 10.793          | 27.6                 | L1   | 9.9        | 22.4        | 50.0               |
| 11.894          | 25.1                 | L1   | 9.9        | 24.9        | 50.0               |
| 13.482          | 31.1                 | L1   | 9.9        | 18.9        | 50.0               |
| 15.618          | 29.5                 | L1   | 9.9        | 20.5        | 50.0               |
| 16.168          | 33.7                 | L1   | 10.0       | 16.3        | 50.0               |
| 18.243          | 27.4                 | L1   | 10.0       | 22.6        | 50.0               |
| 20.260          | 27.7                 | L1   | 10.0       | 22.3        | 50.0               |
| 26.611          | 30.0                 | N    | 10.2       | 20.0        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- Configuration 1 : USB printing Mode (Duplex)

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150kHz - 30MHz

Receiver: ESCI 3

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

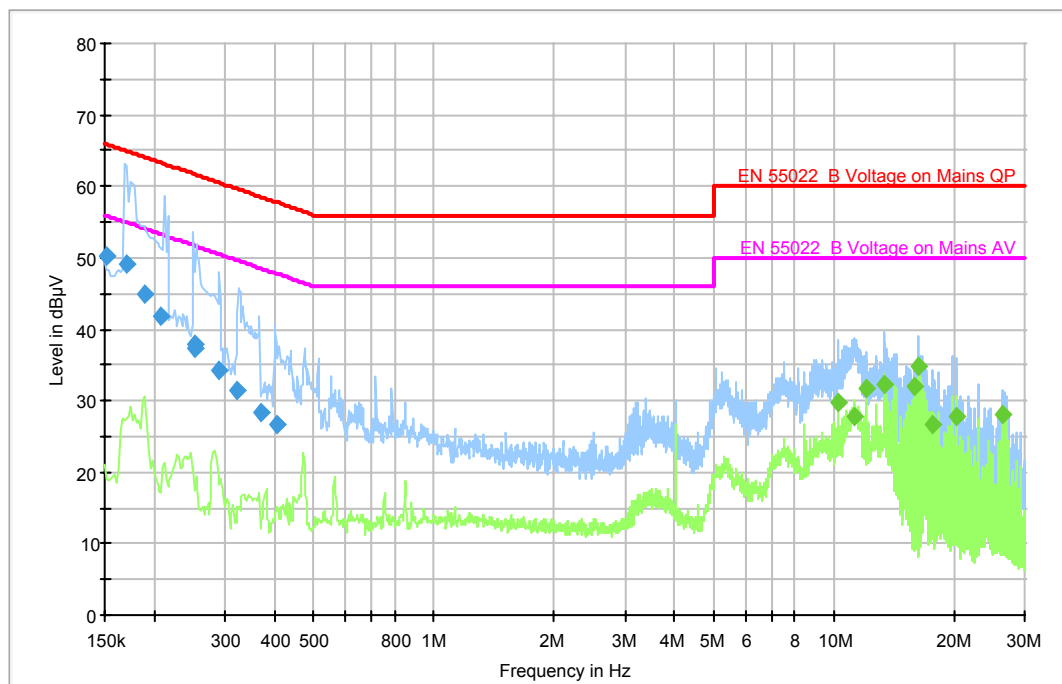
## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.151           | 50.2                    | N    | 9.7        | 15.7        | 65.9               |
| 0.171           | 49.2                    | L1   | 9.7        | 15.7        | 64.9               |
| 0.189           | 44.9                    | L1   | 9.7        | 19.2        | 64.1               |
| 0.208           | 41.9                    | N    | 9.7        | 21.4        | 63.3               |
| 0.252           | 37.2                    | N    | 9.7        | 24.5        | 61.7               |
| 0.253           | 38.0                    | L1   | 9.7        | 23.7        | 61.7               |
| 0.290           | 34.2                    | L1   | 9.7        | 26.3        | 60.5               |
| 0.321           | 31.6                    | L1   | 9.7        | 28.1        | 59.7               |
| 0.370           | 28.5                    | L1   | 9.7        | 30.0        | 58.5               |
| 0.405           | 26.5                    | L1   | 9.7        | 31.2        | 57.8               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 10.246          | 29.8                 | L1   | 9.8        | 20.2        | 50.0               |
| 11.209          | 27.7                 | N    | 9.8        | 22.3        | 50.0               |
| 12.096          | 31.8                 | L1   | 9.9        | 18.2        | 50.0               |
| 13.420          | 32.3                 | L1   | 9.9        | 17.7        | 50.0               |
| 15.848          | 32.1                 | N    | 9.9        | 17.9        | 50.0               |
| 16.231          | 34.7                 | N    | 9.9        | 15.3        | 50.0               |
| 17.693          | 26.7                 | N    | 10.0       | 23.3        | 50.0               |
| 20.260          | 27.7                 | N    | 10.0       | 22.3        | 50.0               |
| 26.489          | 28.2                 | N    | 10.2       | 21.8        | 50.0               |
|                 |                      |      |            |             |                    |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- Configuration 1 : Network printing Mode (Duplex)

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150kHz - 30MHz

Receiver: ESCI 3

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

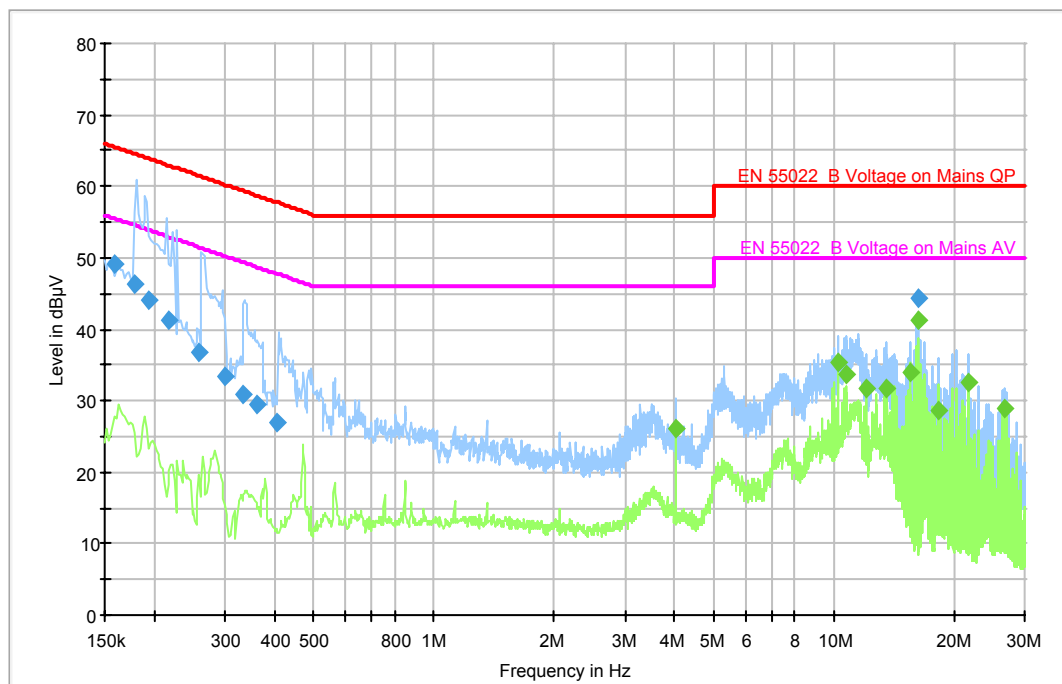
## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.160           | 49.1                    | L1   | 9.7        | 16.4        | 65.5               |
| 0.179           | 46.3                    | L1   | 9.7        | 18.3        | 64.6               |
| 0.194           | 44.1                    | N    | 9.7        | 19.8        | 63.9               |
| 0.217           | 41.2                    | L1   | 9.7        | 21.8        | 63.0               |
| 0.259           | 36.8                    | L1   | 9.7        | 24.7        | 61.5               |
| 0.299           | 33.3                    | N    | 9.7        | 27.0        | 60.3               |
| 0.332           | 30.8                    | L1   | 9.7        | 28.6        | 59.4               |
| 0.361           | 29.5                    | L1   | 9.7        | 29.2        | 58.7               |
| 0.406           | 27.0                    | L1   | 9.7        | 30.7        | 57.7               |
| 16.229          | 44.3                    | N    | 9.9        | 15.7        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 4.032           | 26.1                 | L1   | 9.7        | 19.9        | 46.0               |
| 10.244          | 35.5                 | L1   | 9.8        | 14.5        | 50.0               |
| 10.795          | 33.7                 | N    | 9.8        | 16.3        | 50.0               |
| 12.097          | 31.8                 | L1   | 9.9        | 18.2        | 50.0               |
| 13.482          | 31.7                 | L1   | 9.9        | 18.3        | 50.0               |
| 15.617          | 33.9                 | N    | 9.9        | 16.1        | 50.0               |
| 16.230          | 41.4                 | N    | 9.9        | 8.6         | 50.0               |
| 18.244          | 28.6                 | L1   | 10.0       | 21.4        | 50.0               |
| 21.664          | 32.6                 | N    | 10.1       | 17.4        | 50.0               |
| 26.612          | 28.8                 | N    | 10.2       | 21.2        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- Configuration 1 : 1284 port printing Mode (Duplex)

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150kHz - 30MHz

Receiver: ESCI 3

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

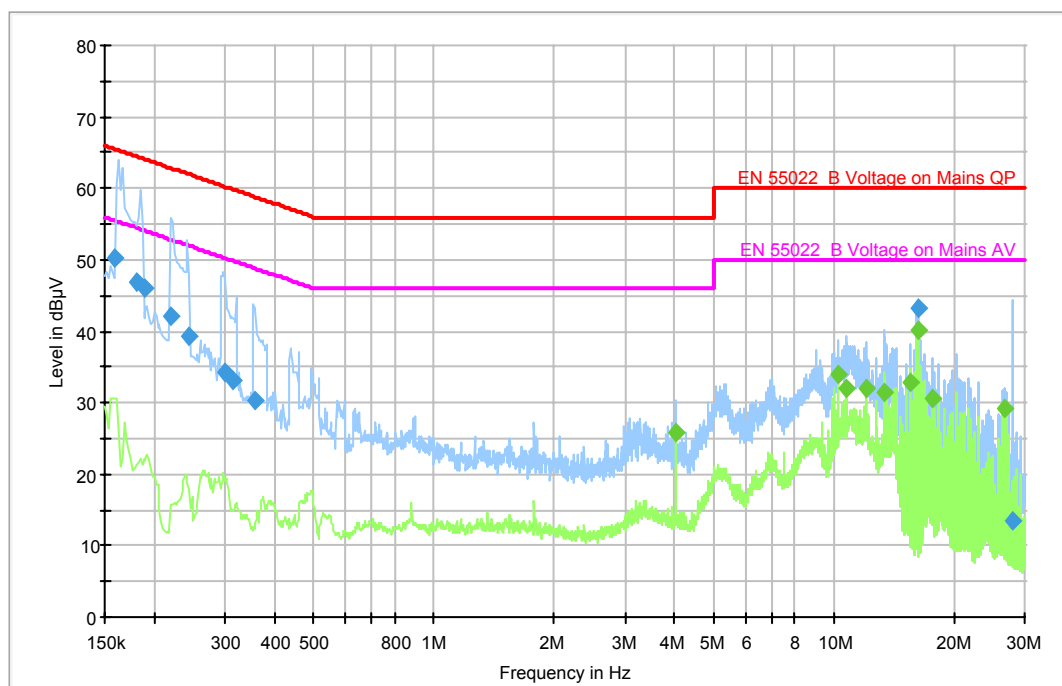
## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.159           | 50.3                    | N    | 9.7        | 15.2        | 65.5               |
| 0.180           | 46.8                    | N    | 9.7        | 17.7        | 64.5               |
| 0.190           | 46.0                    | N    | 9.7        | 18.0        | 64.1               |
| 0.219           | 42.0                    | L1   | 9.7        | 20.9        | 62.9               |
| 0.245           | 39.4                    | L1   | 9.7        | 22.6        | 61.9               |
| 0.300           | 34.3                    | N    | 9.7        | 25.9        | 60.3               |
| 0.316           | 33.2                    | N    | 9.7        | 26.7        | 59.8               |
| 0.356           | 30.3                    | L1   | 9.7        | 28.6        | 58.8               |
| 16.229          | 43.1                    | N    | 9.9        | 16.9        | 60.0               |
| 28.000          | 13.5                    | L1   | 10.1       | 46.5        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 4.033           | 25.9                 | L1   | 9.7        | 20.1        | 46.0               |
| 10.245          | 34.0                 | N    | 9.8        | 16.0        | 50.0               |
| 10.795          | 32.0                 | N    | 9.8        | 18.0        | 50.0               |
| 12.097          | 31.9                 | L1   | 9.9        | 18.1        | 50.0               |
| 13.360          | 31.4                 | N    | 9.9        | 18.6        | 50.0               |
| 15.620          | 32.9                 | L1   | 9.9        | 17.1        | 50.0               |
| 16.230          | 40.0                 | N    | 9.9        | 10.0        | 50.0               |
| 17.695          | 30.7                 | N    | 10.0       | 19.3        | 50.0               |
| 26.611          | 29.1                 | N    | 10.2       | 20.9        | 50.0               |
|                 |                      |      |            |             |                    |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

## - Configuration 1 : DADF copy printing Mode

**Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]**

Subrange 1

Frequency Range: 150kHz - 30MHz

Receiver: ESCI 3

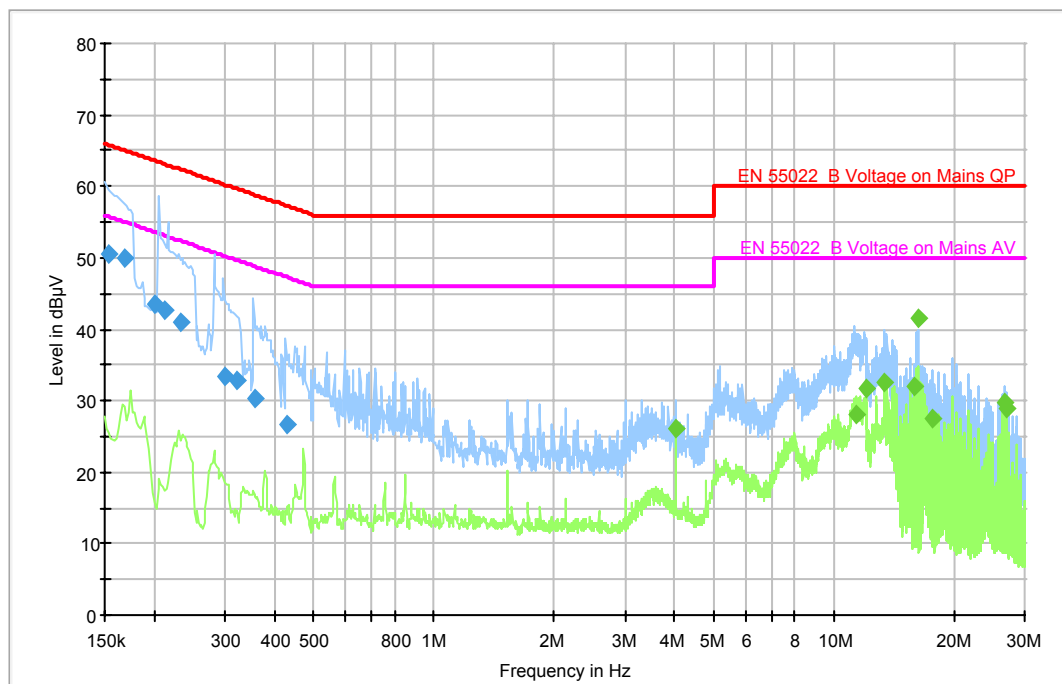
Transducer: ENV216 / Receiver-2-Line-LISN ENV216

**Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]**

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

**Test Graph**

Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.154           | 50.6                    | L1   | 9.7        | 15.2        | 65.8               |
| 0.169           | 50.0                    | L1   | 9.7        | 15.0        | 65.0               |
| 0.201           | 43.4                    | L1   | 9.7        | 20.2        | 63.6               |
| 0.212           | 42.7                    | N    | 9.7        | 20.4        | 63.1               |
| 0.232           | 40.9                    | L1   | 9.7        | 21.5        | 62.4               |
| 0.300           | 33.5                    | N    | 9.7        | 26.8        | 60.3               |
| 0.320           | 32.9                    | L1   | 9.7        | 26.9        | 59.7               |
| 0.359           | 30.4                    | L1   | 9.7        | 28.3        | 58.8               |
| 0.428           | 26.8                    | L1   | 9.7        | 30.5        | 57.3               |
|                 |                         |      |            |             |                    |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 4.033           | 26.1                 | N    | 9.7        | 19.9        | 46.0               |
| 11.318          | 28.1                 | L1   | 9.9        | 21.9        | 50.0               |
| 12.097          | 31.8                 | L1   | 9.9        | 18.2        | 50.0               |
| 13.359          | 32.7                 | N    | 9.9        | 17.3        | 50.0               |
| 15.847          | 32.1                 | N    | 9.9        | 17.9        | 50.0               |
| 16.232          | 41.6                 | N    | 9.9        | 8.4         | 50.0               |
| 17.694          | 27.6                 | N    | 10.0       | 22.4        | 50.0               |
| 26.611          | 29.9                 | N    | 10.2       | 20.1        | 50.0               |
| 27.161          | 29.0                 | N    | 10.2       | 21.0        | 50.0               |
|                 |                      |      |            |             |                    |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- Configuration 1 : Scan to PC Mode

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150kHz - 30MHz

Receiver: ESCI 3

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

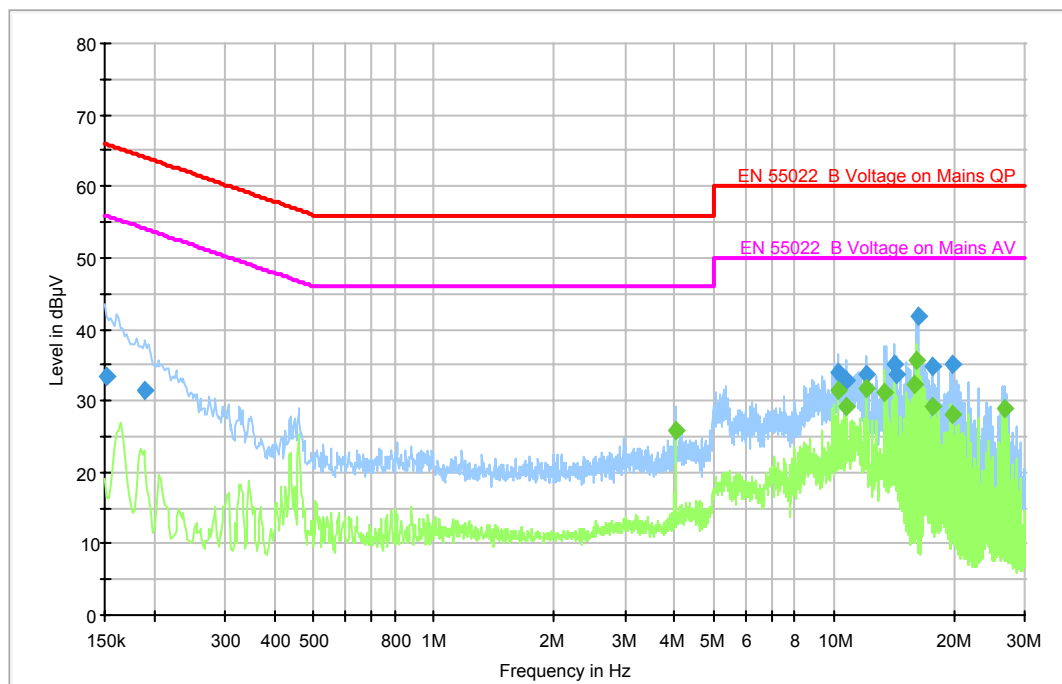
## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.151           | 33.3                    | L1   | 9.7        | 32.6        | 65.9               |
| 0.189           | 31.5                    | L1   | 9.7        | 32.6        | 64.1               |
| 10.246          | 33.9                    | L1   | 9.8        | 26.1        | 60.0               |
| 10.794          | 32.9                    | N    | 9.8        | 27.1        | 60.0               |
| 12.096          | 33.6                    | N    | 9.9        | 26.4        | 60.0               |
| 14.152          | 35.0                    | N    | 9.9        | 25.0        | 60.0               |
| 14.335          | 33.8                    | N    | 9.9        | 26.2        | 60.0               |
| 16.230          | 41.8                    | N    | 9.9        | 18.2        | 60.0               |
| 17.695          | 34.8                    | N    | 10.0       | 25.2        | 60.0               |
| 19.711          | 35.2                    | N    | 10.0       | 24.8        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 4.033           | 25.9                 | N    | 9.7        | 20.1        | 46.0               |
| 10.245          | 31.4                 | L1   | 9.8        | 18.6        | 50.0               |
| 10.794          | 29.1                 | L1   | 9.9        | 20.9        | 50.0               |
| 12.097          | 31.6                 | N    | 9.9        | 18.4        | 50.0               |
| 13.359          | 31.0                 | L1   | 9.9        | 19.0        | 50.0               |
| 15.847          | 32.3                 | N    | 9.9        | 17.7        | 50.0               |
| 16.168          | 35.5                 | L1   | 10.0       | 14.5        | 50.0               |
| 17.696          | 29.2                 | N    | 10.0       | 20.8        | 50.0               |
| 19.708          | 28.1                 | N    | 10.0       | 21.9        | 50.0               |
| 26.612          | 28.8                 | N    | 10.2       | 21.2        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- Configuration 1 : Scan to USB memory stick Mode

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150kHz - 30MHz

Receiver: ESCI 3

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

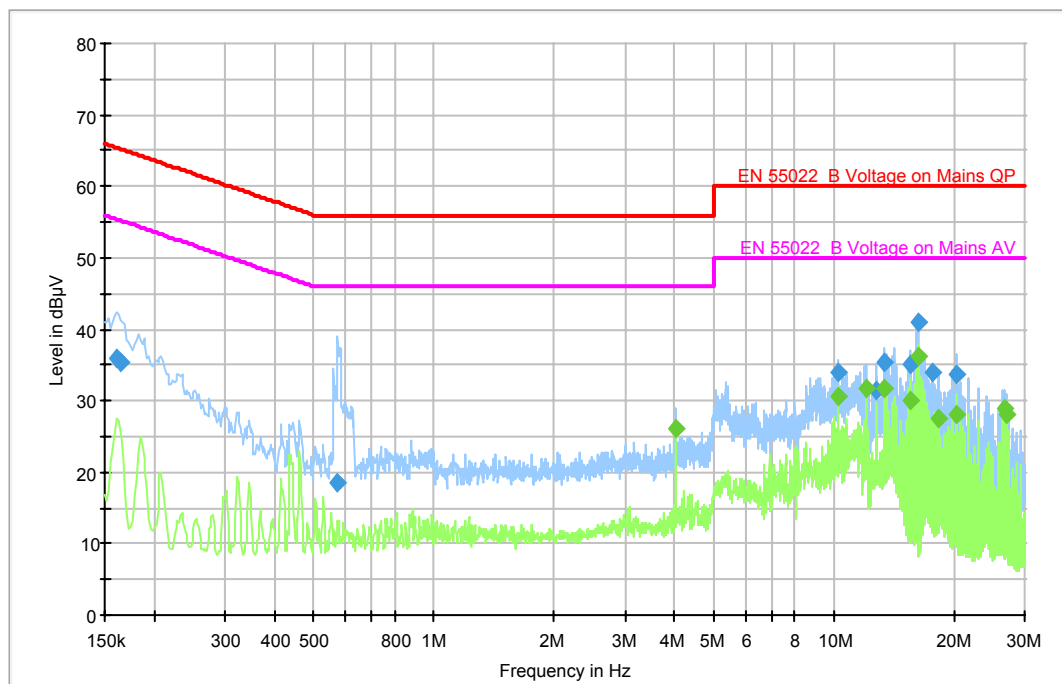
## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.161           | 35.8                    | L1   | 9.7        | 29.6        | 65.4               |
| 0.165           | 35.3                    | L1   | 9.7        | 29.9        | 65.2               |
| 0.574           | 18.5                    | N    | 9.7        | 37.5        | 56.0               |
| 10.244          | 34.0                    | L1   | 9.8        | 26.0        | 60.0               |
| 12.749          | 31.5                    | L1   | 9.9        | 28.5        | 60.0               |
| 13.422          | 35.3                    | L1   | 9.9        | 24.7        | 60.0               |
| 15.618          | 35.0                    | L1   | 9.9        | 25.0        | 60.0               |
| 16.230          | 40.9                    | L1   | 10.0       | 19.1        | 60.0               |
| 17.696          | 34.0                    | L1   | 10.0       | 26.0        | 60.0               |
| 20.261          | 33.6                    | N    | 10.0       | 26.4        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 4.032           | 26.0                 | L1   | 9.7        | 20.0        | 46.0               |
| 10.244          | 30.5                 | L1   | 9.8        | 19.5        | 50.0               |
| 12.096          | 31.8                 | N    | 9.9        | 18.2        | 50.0               |
| 13.419          | 31.8                 | L1   | 9.9        | 18.2        | 50.0               |
| 15.618          | 30.1                 | L1   | 9.9        | 19.9        | 50.0               |
| 16.229          | 36.3                 | N    | 9.9        | 13.7        | 50.0               |
| 18.245          | 27.6                 | N    | 10.0       | 22.4        | 50.0               |
| 20.259          | 28.2                 | N    | 10.0       | 21.8        | 50.0               |
| 26.610          | 29.1                 | N    | 10.2       | 20.9        | 50.0               |
| 27.160          | 28.2                 | N    | 10.2       | 21.8        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- Configuration 1 : Fax transmission Mode

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

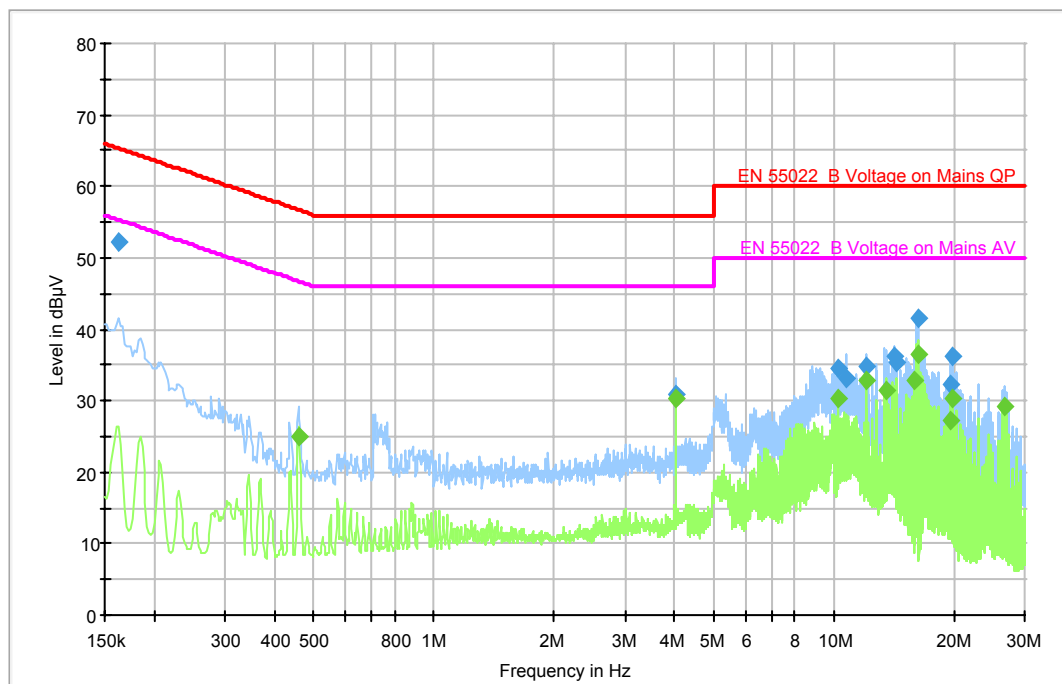
Frequency Range: 150kHz - 30MHz  
Receiver: ESCI 3  
Transducer: ENV216 / Receiver-2-Line-LISN ENV216

## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN  
Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

### Test Results ( Quasi-Peak and Average)

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.164           | 52.2                    | N    | 9.7        | 13.1        | 65.3               |
| 4.032           | 30.9                    | L1   | 9.7        | 25.1        | 56.0               |
| 10.244          | 34.4                    | L1   | 9.8        | 25.6        | 60.0               |
| 10.792          | 33.0                    | N    | 9.9        | 27.0        | 60.0               |
| 12.097          | 34.8                    | L1   | 9.9        | 25.2        | 60.0               |
| 14.152          | 36.1                    | L1   | 9.9        | 23.9        | 60.0               |
| 14.337          | 35.4                    | L1   | 9.9        | 24.6        | 60.0               |
| 16.230          | 41.6                    | N    | 10.0       | 18.4        | 60.0               |
| 19.588          | 32.3                    | L1   | 10.0       | 27.7        | 60.0               |
| 19.709          | 36.2                    | N    | 10.0       | 23.8        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 0.459           | 25.0                 | N    | 9.7        | 21.7        | 46.7               |
| 4.033           | 30.4                 | L1   | 9.7        | 15.6        | 46.0               |
| 10.244          | 30.2                 | L1   | 9.8        | 19.8        | 50.0               |
| 12.097          | 32.8                 | N    | 9.9        | 17.2        | 50.0               |
| 13.483          | 31.4                 | L1   | 9.9        | 18.6        | 50.0               |
| 15.848          | 32.7                 | L1   | 10.0       | 17.3        | 50.0               |
| 16.228          | 36.5                 | L1   | 10.0       | 13.5        | 50.0               |
| 19.588          | 27.2                 | N    | 10.0       | 22.8        | 50.0               |
| 19.710          | 30.3                 | L1   | 10.0       | 19.7        | 50.0               |
| 26.611          | 29.2                 | N    | 10.2       | 20.8        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- Configuration 1 : Fax receiving Mode

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

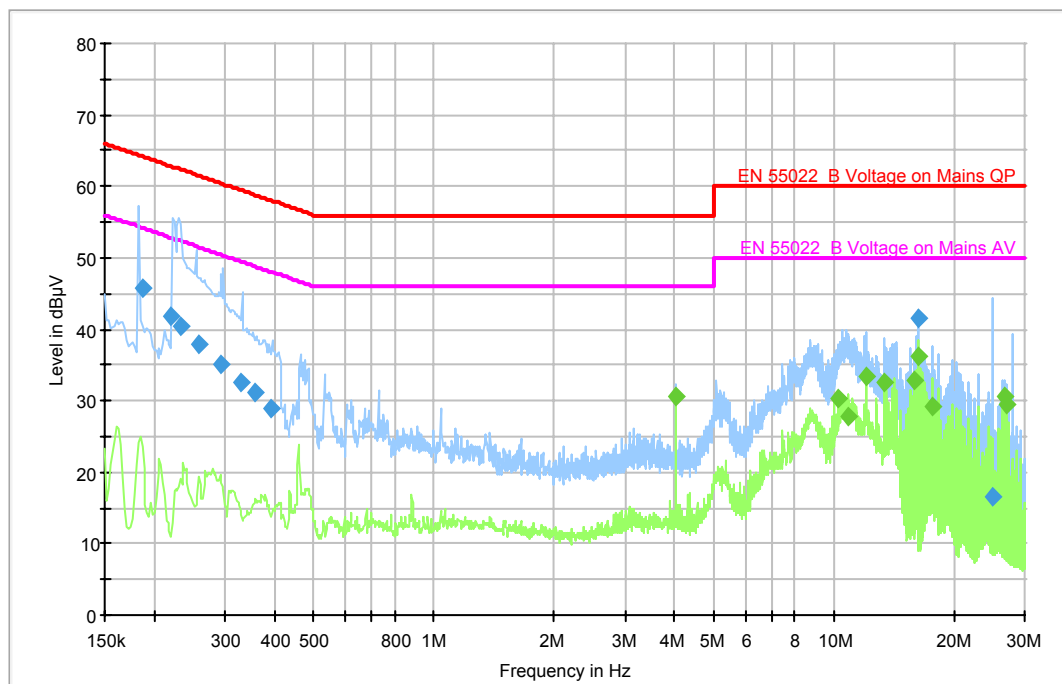
Frequency Range: 150kHz - 30MHz  
Receiver: ESCI 3  
Transducer: ENV216 / Receiver-2-Line-LISN ENV216

## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN  
Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.187           | 45.7                    | N    | 9.7        | 18.5        | 64.2               |
| 0.219           | 41.8                    | N    | 9.7        | 21.1        | 62.9               |
| 0.233           | 40.3                    | L1   | 9.7        | 22.0        | 62.4               |
| 0.260           | 37.8                    | L1   | 9.7        | 23.6        | 61.4               |
| 0.294           | 35.1                    | N    | 9.7        | 25.4        | 60.4               |
| 0.328           | 32.4                    | L1   | 9.7        | 27.1        | 59.5               |
| 0.357           | 31.1                    | N    | 9.7        | 27.7        | 58.8               |
| 0.391           | 29.0                    | N    | 9.7        | 29.0        | 58.1               |
| 16.229          | 41.6                    | L1   | 10.0       | 18.4        | 60.0               |
| 25.028          | 16.5                    | L1   | 10.1       | 43.5        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 4.033           | 30.5                 | L1   | 9.7        | 15.5        | 46.0               |
| 10.246          | 30.3                 | N    | 9.8        | 19.7        | 50.0               |
| 10.839          | 27.9                 | N    | 9.8        | 22.1        | 50.0               |
| 12.097          | 33.3                 | N    | 9.9        | 16.7        | 50.0               |
| 13.420          | 32.7                 | N    | 9.9        | 17.3        | 50.0               |
| 15.848          | 32.7                 | N    | 9.9        | 17.3        | 50.0               |
| 16.231          | 36.3                 | L1   | 10.0       | 13.7        | 50.0               |
| 17.693          | 29.1                 | N    | 10.0       | 20.9        | 50.0               |
| 26.611          | 30.6                 | N    | 10.2       | 19.4        | 50.0               |
| 27.161          | 29.6                 | N    | 10.2       | 20.4        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- Configuration 2 : Stand-by Mode

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

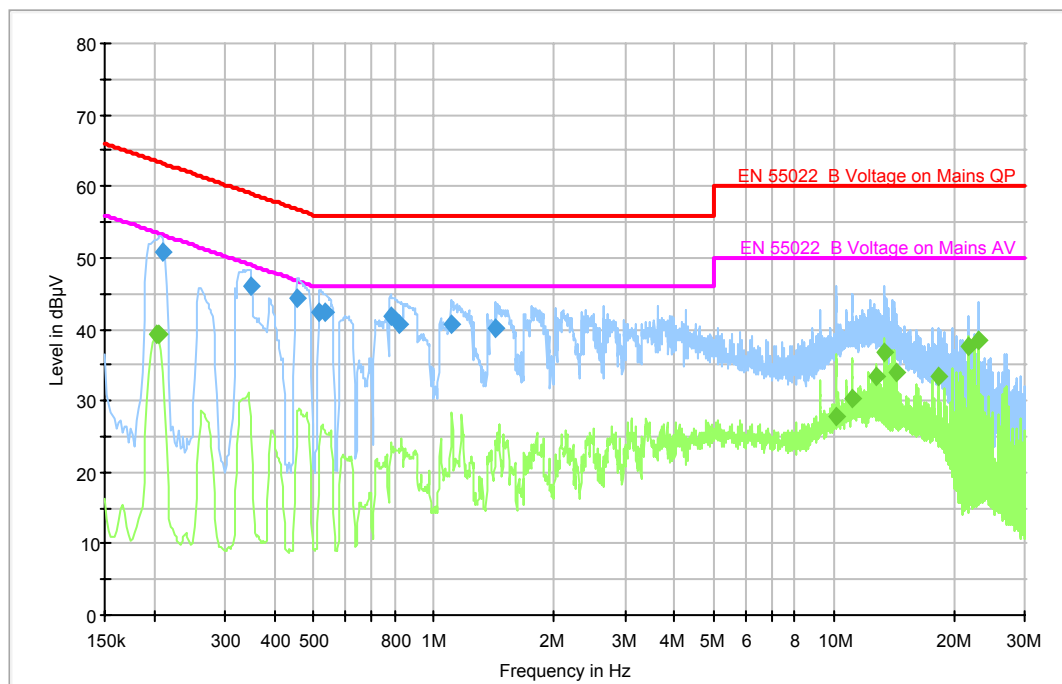
Frequency Range: 150kHz - 30MHz  
Receiver: ESCI 3  
Transducer: ENV216 / Receiver-2-Line-LISN ENV216

## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN  
Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.209           | 50.7                    | N    | 9.7        | 12.6        | 63.3               |
| 0.348           | 46.0                    | N    | 9.7        | 13.0        | 59.0               |
| 0.454           | 44.3                    | N    | 9.7        | 12.5        | 56.8               |
| 0.519           | 42.5                    | N    | 9.7        | 13.5        | 56.0               |
| 0.532           | 42.3                    | N    | 9.7        | 13.7        | 56.0               |
| 0.779           | 41.9                    | N    | 9.7        | 14.1        | 56.0               |
| 0.823           | 40.7                    | N    | 9.7        | 15.3        | 56.0               |
| 1.102           | 40.8                    | N    | 9.7        | 15.2        | 56.0               |
| 1.426           | 40.3                    | N    | 9.7        | 15.7        | 56.0               |
|                 |                         |      |            |             |                    |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 0.204           | 39.3                 | N    | 9.7        | 14.2        | 53.5               |
| 0.205           | 39.2                 | N    | 9.7        | 14.2        | 53.4               |
| 10.158          | 27.7                 | N    | 9.8        | 22.3        | 50.0               |
| 11.114          | 30.2                 | N    | 9.8        | 19.8        | 50.0               |
| 12.807          | 33.4                 | L1   | 9.9        | 16.6        | 50.0               |
| 13.358          | 36.8                 | L1   | 9.9        | 13.2        | 50.0               |
| 14.336          | 34.1                 | N    | 9.9        | 15.9        | 50.0               |
| 18.244          | 33.4                 | N    | 10.0       | 16.6        | 50.0               |
| 21.663          | 37.6                 | N    | 10.1       | 12.4        | 50.0               |
| 23.128          | 38.5                 | N    | 10.1       | 11.5        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- Configuration 2 : 1284 port printing Mode (Duplex)

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150kHz - 30MHz

Receiver: ESCI 3

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

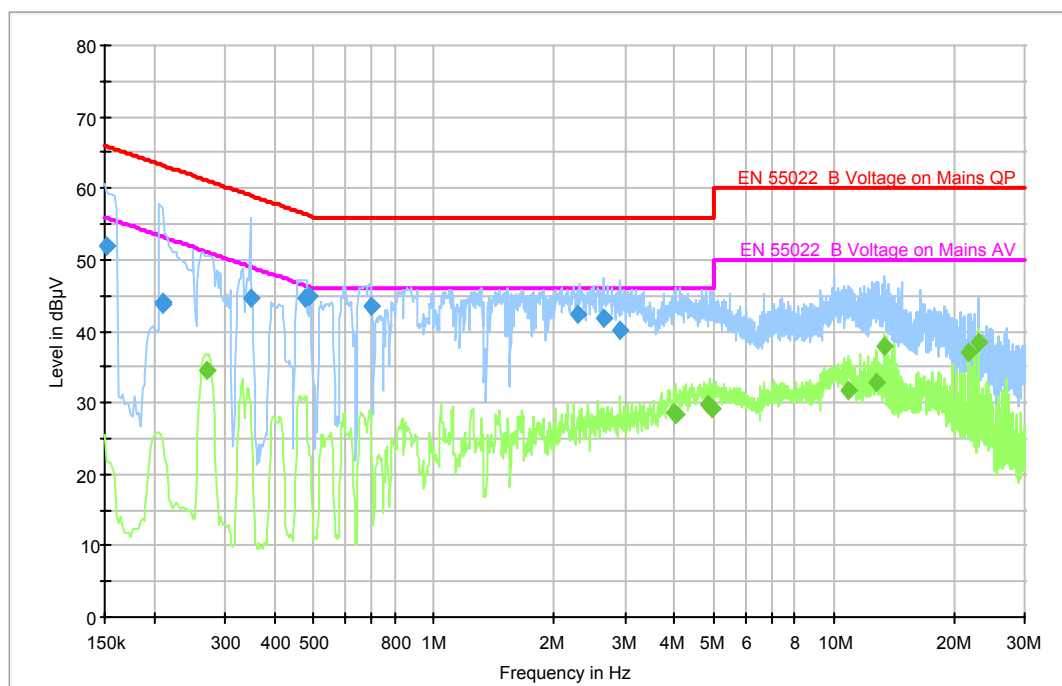
## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

## Test Results ( Quasi-Peak and Average)

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.151           | 51.8                    | N    | 9.7        | 14.1        | 65.9               |
| 0.210           | 44.1                    | L1   | 9.7        | 19.1        | 63.2               |
| 0.211           | 43.9                    | L1   | 9.7        | 19.3        | 63.2               |
| 0.348           | 44.5                    | L1   | 9.7        | 14.5        | 59.0               |
| 0.477           | 44.6                    | N    | 9.7        | 11.8        | 56.4               |
| 0.487           | 44.9                    | L1   | 9.7        | 11.3        | 56.2               |
| 0.694           | 43.6                    | N    | 9.7        | 12.4        | 56.0               |
| 2.297           | 42.4                    | N    | 9.7        | 13.6        | 56.0               |
| 2.645           | 41.8                    | N    | 9.7        | 14.2        | 56.0               |
| 2.926           | 40.3                    | N    | 9.7        | 15.7        | 56.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 0.271           | 34.5                 | N    | 9.7        | 16.6        | 51.1               |
| 3.972           | 28.8                 | L1   | 9.7        | 17.2        | 46.0               |
| 4.045           | 28.4                 | L1   | 9.7        | 17.6        | 46.0               |
| 4.868           | 29.7                 | L1   | 9.7        | 16.3        | 46.0               |
| 4.970           | 29.1                 | L1   | 9.7        | 16.9        | 46.0               |
| 10.881          | 31.7                 | L1   | 9.9        | 18.3        | 50.0               |
| 12.709          | 32.8                 | L1   | 9.9        | 17.2        | 50.0               |
| 13.358          | 37.8                 | L1   | 9.9        | 12.2        | 50.0               |
| 21.663          | 37.0                 | N    | 10.1       | 13.0        | 50.0               |
| 23.128          | 38.5                 | N    | 10.1       | 11.5        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- Configuration 2 : DADF copy printing Mode

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150kHz - 30MHz

Receiver: ESCI 3

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

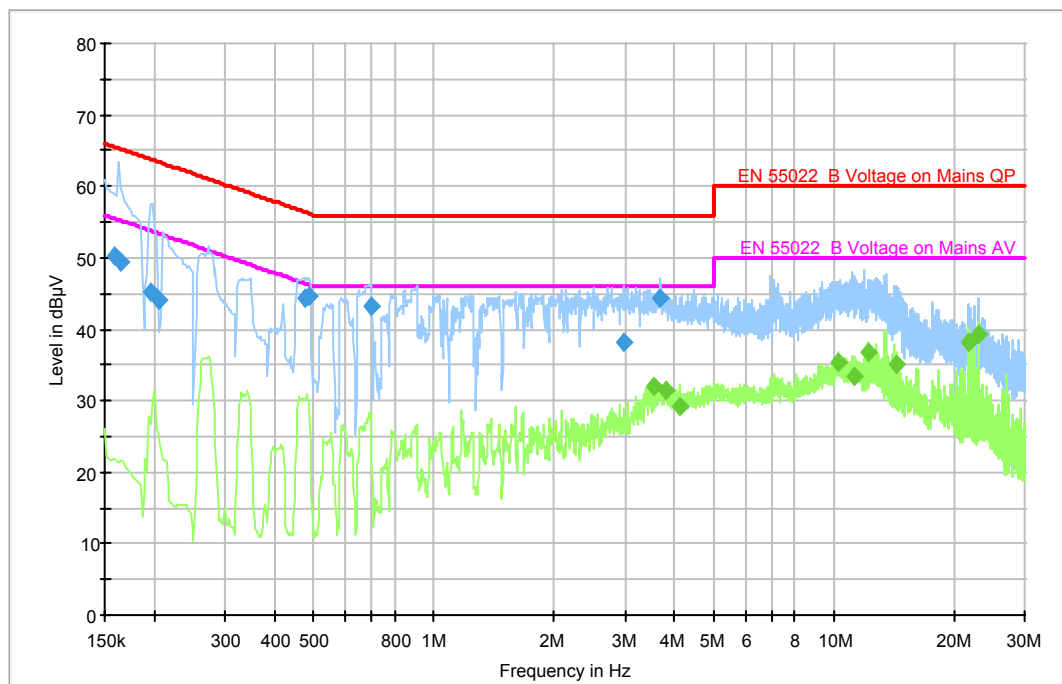
## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.159           | 50.3                    | N    | 9.7        | 15.2        | 65.5               |
| 0.165           | 49.4                    | N    | 9.7        | 15.8        | 65.2               |
| 0.196           | 45.2                    | N    | 9.7        | 18.6        | 63.8               |
| 0.206           | 44.1                    | L1   | 9.7        | 19.3        | 63.4               |
| 0.479           | 44.4                    | N    | 9.7        | 11.9        | 56.4               |
| 0.486           | 44.6                    | L1   | 9.7        | 11.6        | 56.2               |
| 0.695           | 43.2                    | L1   | 9.7        | 12.8        | 56.0               |
| 2.991           | 38.2                    | N    | 9.7        | 17.8        | 56.0               |
| 3.684           | 44.4                    | N    | 9.7        | 11.6        | 56.0               |
|                 |                         |      |            |             |                    |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 3.545           | 32.0                 | N    | 9.7        | 14.0        | 46.0               |
| 3.821           | 31.5                 | N    | 9.7        | 14.5        | 46.0               |
| 4.104           | 29.1                 | L1   | 9.7        | 16.9        | 46.0               |
| 10.245          | 35.3                 | N    | 9.8        | 14.7        | 50.0               |
| 11.201          | 33.5                 | N    | 9.8        | 16.5        | 50.0               |
| 12.199          | 36.8                 | N    | 9.9        | 13.2        | 50.0               |
| 14.336          | 35.0                 | N    | 9.9        | 15.0        | 50.0               |
| 21.663          | 38.1                 | N    | 10.1       | 11.9        | 50.0               |
| 23.129          | 39.3                 | N    | 10.1       | 10.7        | 50.0               |
|                 |                      |      |            |             |                    |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

- **Configuration 2 : Fax transmission Mode**

## Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

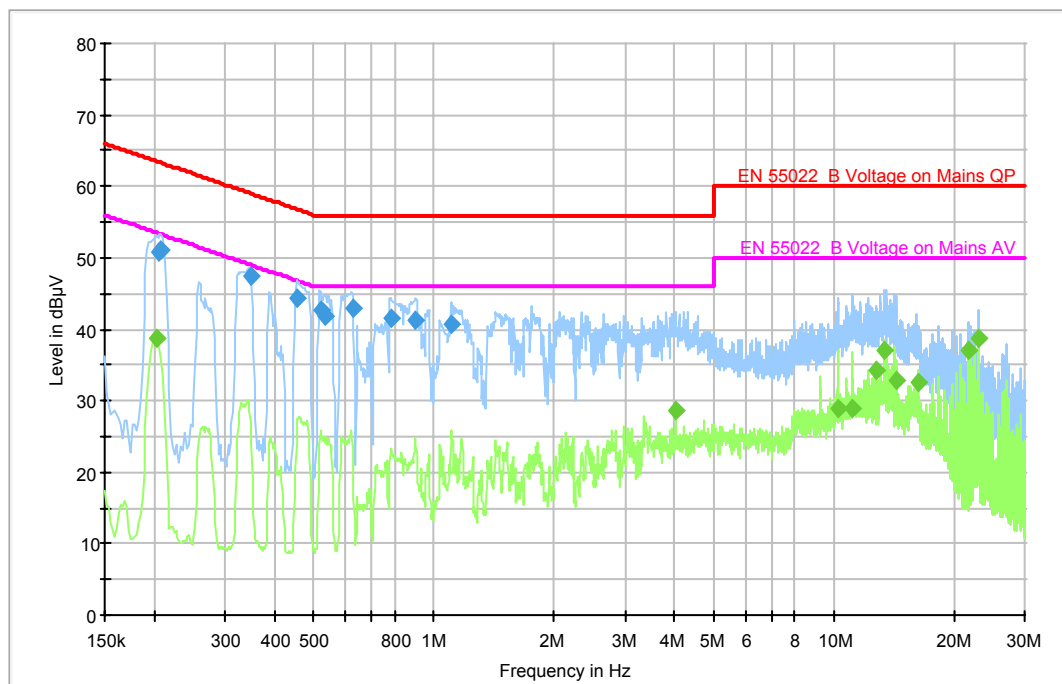
Frequency Range: 150kHz - 30MHz  
 Receiver: ESCI 3  
 Transducer: ENV216 / Receiver-2-Line-LISN ENV216

## Scan Setup: EN55022\_B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN  
 Level Unit: dB  $\mu$  V

| Subrange       | Detectors          | IF Bandwidth | Meas. Time | Receiver |
|----------------|--------------------|--------------|------------|----------|
| 150kHz - 30MHz | QuasiPeak; Average | 9kHz         | 15s        | ESCI 3   |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

**Test Results ( Quasi-Peak and Average)**

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.202           | 38.8                    | N    | 9.7        | 14.8        | 53.5               |
| 4.033           | 28.7                    | L1   | 9.7        | 17.3        | 46.0               |
| 10.225          | 28.8                    | N    | 9.8        | 21.2        | 50.0               |
| 11.153          | 28.9                    | N    | 9.8        | 21.1        | 50.0               |
| 12.749          | 34.3                    | N    | 9.9        | 15.7        | 50.0               |
| 13.419          | 37.1                    | N    | 9.9        | 12.9        | 50.0               |
| 14.336          | 32.9                    | L1   | 9.9        | 17.1        | 50.0               |
| 16.229          | 32.5                    | L1   | 10.0       | 17.5        | 50.0               |
| 21.663          | 37.0                    | L1   | 10.1       | 13.0        | 50.0               |
| 23.129          | 38.7                    | N    | 10.1       | 11.3        | 50.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 0.206           | 50.9                 | N    | 9.7        | 12.4        | 63.4               |
| 0.208           | 51.1                 | N    | 9.7        | 12.2        | 63.3               |
| 0.348           | 47.4                 | N    | 9.7        | 11.7        | 59.0               |
| 0.454           | 44.4                 | N    | 9.7        | 12.5        | 56.8               |
| 0.522           | 42.5                 | N    | 9.7        | 13.5        | 56.0               |
| 0.536           | 41.9                 | N    | 9.7        | 14.1        | 56.0               |
| 0.625           | 42.9                 | N    | 9.7        | 13.1        | 56.0               |
| 0.778           | 41.5                 | N    | 9.7        | 14.5        | 56.0               |
| 0.896           | 41.2                 | L1   | 9.7        | 14.8        | 56.0               |
| 1.101           | 40.6                 | N    | 9.7        | 15.4        | 56.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

## 4.2 Radiated disturbance

Of those disturbances above ( $L - 20\text{dB}$ ), where  $L$  is the limit level in logarithmic units, record at least the disturbance levels and the frequencies of the six highest disturbances.

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. All measurements were taken utilizing quasi-peak detection unless stated otherwise.

Measurements were performed at an antenna to EUT distance of 10 meters and elevated between 1 and 4 meters. Both vertical and horizontal antenna polarizations were measured.

### Limits for radiated disturbance of ITE at a measuring distance of 10 m

| Frequency range Limits<br>MHz                                                     | Resolution Bandwidth | Quasi-peak Limits dB( $\mu\text{V}/\text{m}$ ) |         |
|-----------------------------------------------------------------------------------|----------------------|------------------------------------------------|---------|
|                                                                                   |                      | Class A                                        | Class B |
| 30 to 230                                                                         | 120 kHz              | 40                                             | 30      |
| 230 to 1000                                                                       | 120 kHz              | 47                                             | 37      |
| NOTE 1 The lower limit shall apply at the transition frequency                    |                      |                                                |         |
| NOTE 2 Additional provisions may be required for cases where interference occurs. |                      |                                                |         |

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

| Antenna Height<br>( Cm) | Antenna Polarisation | Turntable position<br>(degrees) |
|-------------------------|----------------------|---------------------------------|
| 100                     | Horizontal, Vertical | Continuous                      |

**Limits for above 1GHz radiated disturbance of ITE at a measuring distance of 3 m**

| Class                                                                      | Limits - dB(μV/m) |         |
|----------------------------------------------------------------------------|-------------------|---------|
|                                                                            | Peak              | Average |
| A                                                                          | 80                | 60      |
| B                                                                          | 74                | 54      |
| Average limit 500, $20 \log 500 = 53.979 \text{ dB} \approx 54 \text{ dB}$ |                   |         |

Antenna height was adjusted to 100 cm to be parallel from EUT to antenna centre.  
Measurements within 20 dB of the limit were then maximized by adjusting turntable position.  
Final measurements were made using a average detector.

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

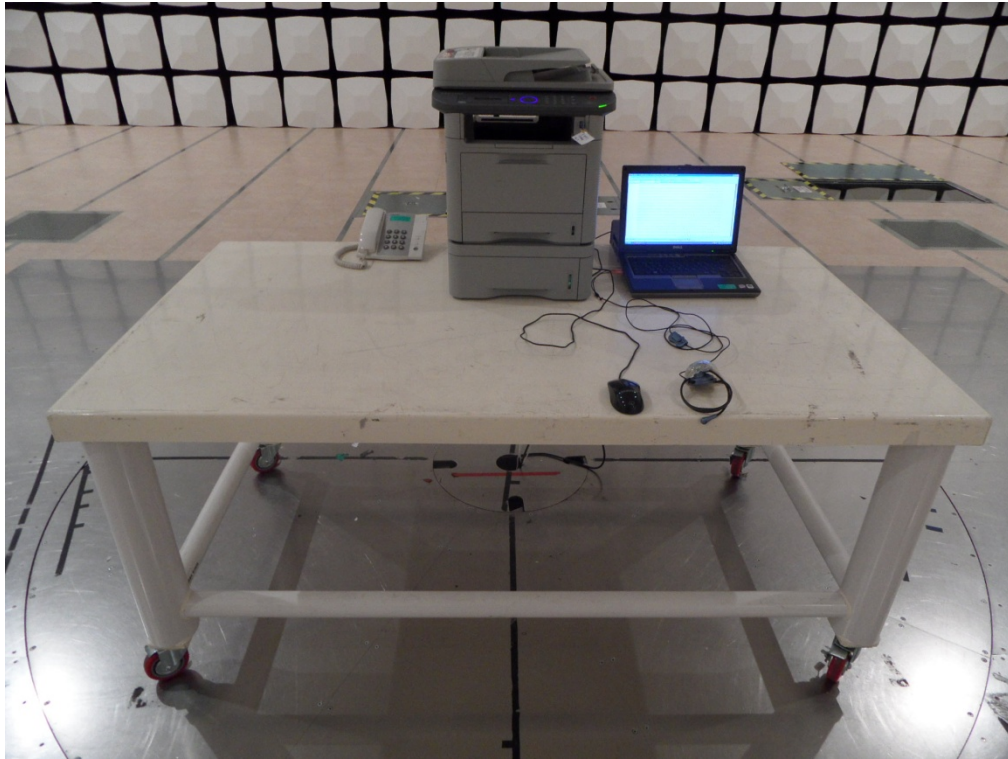
#### 4.2.1 Test instrumentation

| Test instrumentation | Model name | Manufacturer                  | Serial or Firmware (No./Ver.) | Calibration |                  |
|----------------------|------------|-------------------------------|-------------------------------|-------------|------------------|
|                      |            |                               |                               | Date        | Interval (Month) |
| Bi-con Antenna       | CBL6112D   | Schaffner                     | 22602                         | 2010-04-21  | 24               |
| Bi-con Antenna       | CBL6112D   | Schaffner                     | 22604                         | 2010-04-21  | 24               |
| Horn Antenna         | R&S        | HF907                         | 100016                        | 2009-04-27  | 24               |
| EMI Receiver         | ESIB-26    | R&S                           | 100288                        | 2010-06-04  | 12               |
| EMI Receiver         | ESIB-26    | R&S                           | 100147                        | 2010-08-17  | 12               |
| Amplifier            | 310N       | Agilent                       | 185861                        | 2010-01-28  | 12               |
| Amplifier            | 310N       | Agilent                       | 251676                        | 2010-01-28  | 12               |
| Preamplifier         | R&S        | SCU_F018_G35_<br>ASF42_CNN(F) | 10001                         | 2010-04-19  | 12               |
| Antenna Mast         | MA4000     | INN CO                        | -                             | N/A         | N/A              |
| Antenna Mast         | MA4000     | INN CO                        | -                             | N/A         | N/A              |
| Antenna Mast         | MA2000     | INN CO                        | -                             | N/A         | N/A              |
| Mast Controller      | CO2000     | INN CO                        | -                             | N/A         | N/A              |
| Test software        | EP5/RE     | TOYO                          | VER 3.1.20                    | N/A         | N/A              |
| RF Selector          | NS4900     | TOYO                          | -                             | N/A         | N/A              |

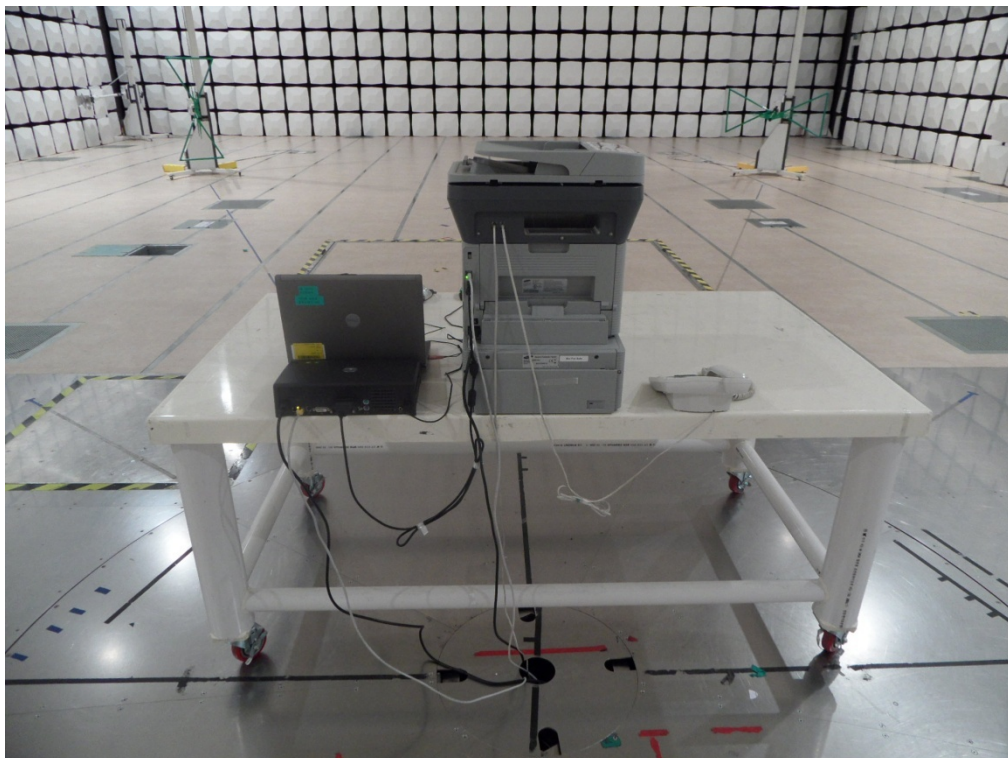
#### 4.2.2 Temperature and humidity condition

|            |                                        |               |              |
|------------|----------------------------------------|---------------|--------------|
| Test date  | October 15, 2010<br>~ October 28, 2010 | Test engineer | Sung Jin Sim |
| Test place | Semi-Anechoic Chamber                  |               |              |

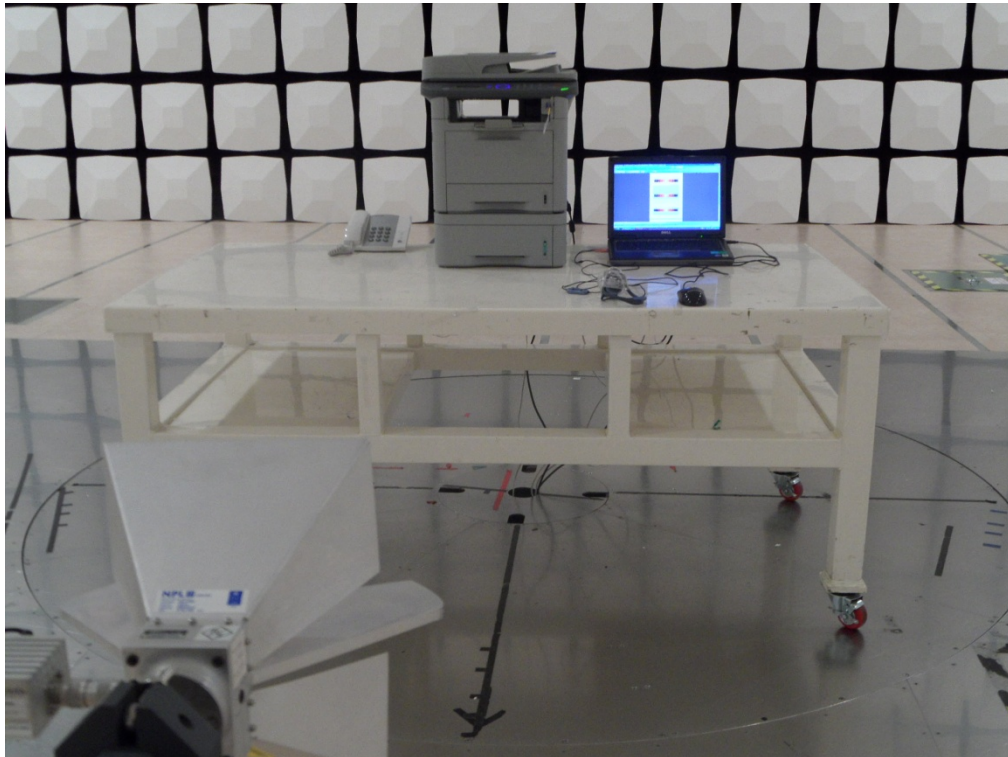
### 4.2.3 Photograph of Test Setup



**Front**



**Rear**



**Front (above 1GHz)**



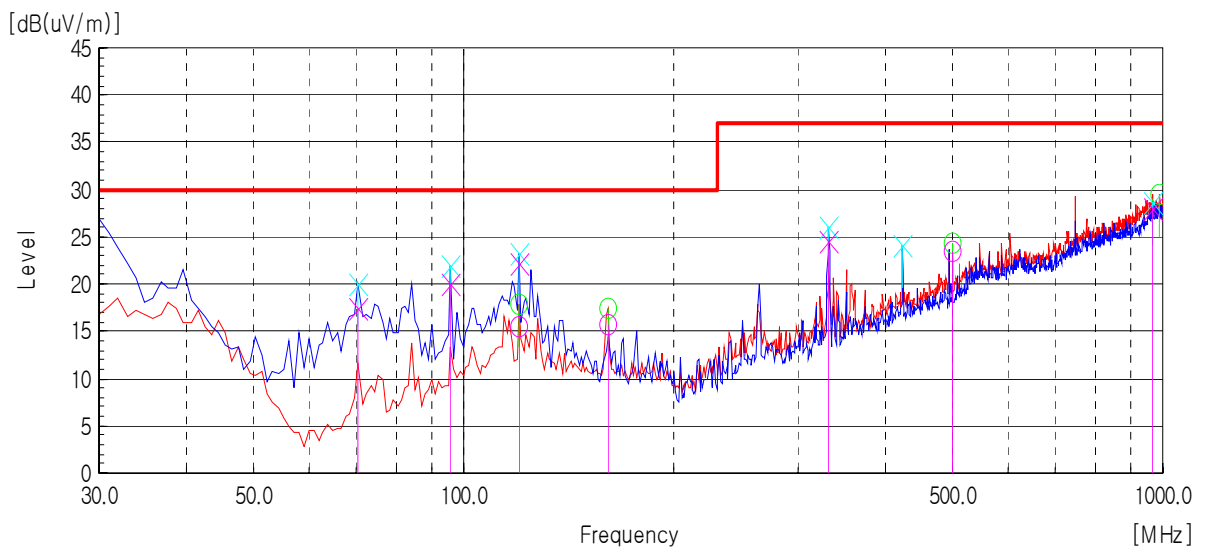
**Rear (above 1GHz)**

## 4.2.4 Test results

### 4.2.4.1 30 MHz to 1GHz test results

- Configuration 1 : Stand-by mode

#### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 70.569          | V    | 42.0                | -24.5            | 17.5                 | 30                | 12.5           | 124         | 16.4        |
| 95.683          | V    | 40.1                | -20.0            | 20.1                 | 30                | 9.9            | 115         | 6.4         |
| 119.832         | V    | 39.8                | -17.6            | 22.2                 | 30                | 7.8            | 101         | 107.3       |
| 119.832         | H    | 33.1                | -17.7            | 15.4                 | 30                | 14.6           | 396         | 112.0       |
| 160.401         | H    | 34.9                | -19.1            | 15.8                 | 30                | 14.2           | 398         | 39.9        |
| 332.337         | V    | 37.8                | -13.3            | 24.5                 | 37                | 12.5           | 365         | 55.7        |
| 500.409         | H    | 32.1                | -8.6             | 23.5                 | 37                | 13.5           | 127         | 2.7         |
| 965.772         | V    | 28.7                | -0.8             | 27.9                 | 37                | 9.1            | 298         | 305.0       |

Note) Receiving antenna polarization : Horizontal and/or Vertical

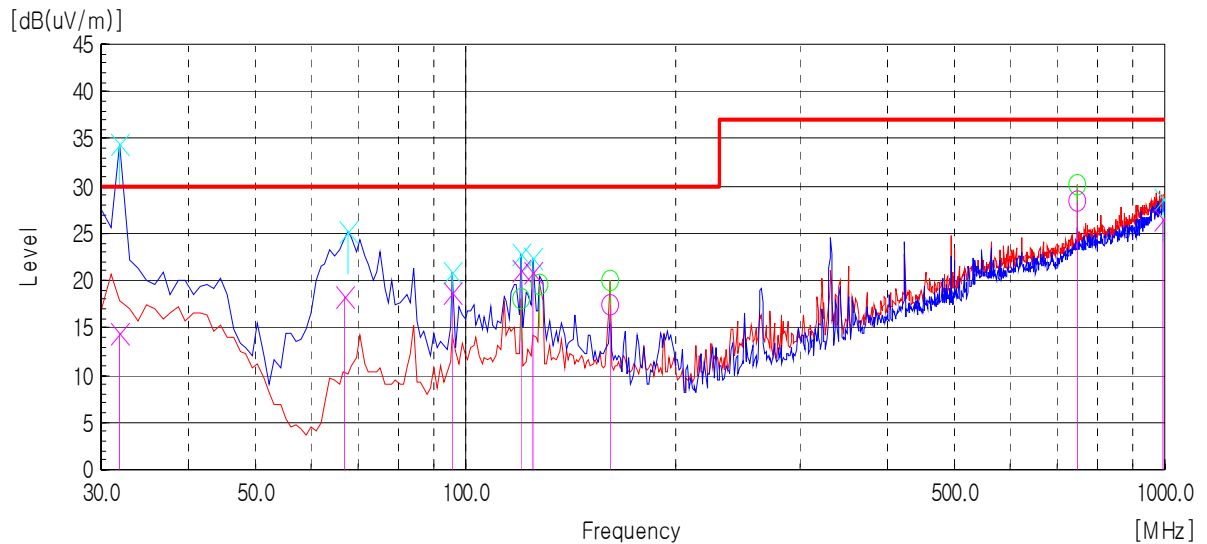
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 1 : USB printing mode (Duplex)

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 31.932          | V    | 26.3                | -11.9            | 14.4                 | 30                | 15.6           | 357         | 165.7       |
| 66.865          | V    | 43.2                | -24.8            | 18.4                 | 30                | 11.6           | 124         | 94.8        |
| 95.683          | V    | 38.8                | -20.0            | 18.8                 | 30                | 11.2           | 103         | 355.3       |
| 119.832         | V    | 38.8                | -17.6            | 21.2                 | 30                | 8.8            | 112         | 55.8        |
| 124.661         | V    | 38.5                | -17.6            | 20.9                 | 30                | 9.1            | 197         | 163.5       |
| 160.401         | H    | 36.6                | -19.1            | 17.5                 | 30                | 12.5           | 228         | 0.3         |
| 749.643         | H    | 32.8                | -4.3             | 28.5                 | 37                | 8.5            | 116         | 281.4       |
| 994.132         | V    | 26.9                | -0.4             | 26.5                 | 37                | 10.5           | 105         | 359.6       |

Note) Receiving antenna polarization : Horizontal and/or Vertical

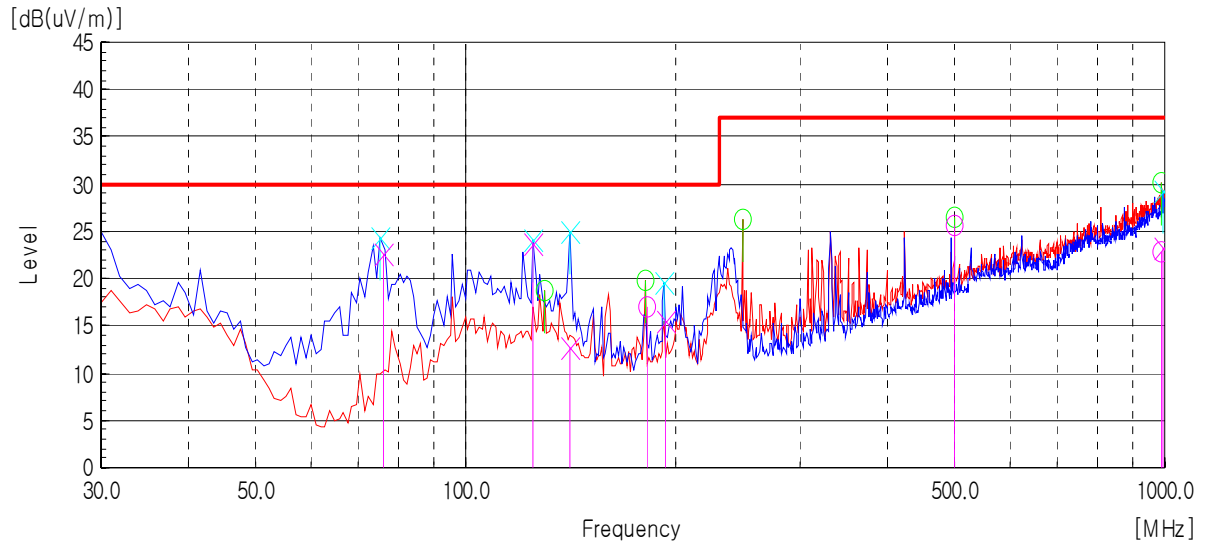
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 1 : Network printing mode (Duplex)

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 75.965          | V    | 46.5                | -23.9            | 22.6                 | 30                | 7.4            | 398         | 58.9        |
| 124.783         | V    | 41.3                | -17.6            | 23.7                 | 30                | 6.3            | 221         | 0.3         |
| 141.082         | V    | 30.8                | -18.2            | 12.6                 | 30                | 17.4           | 103         | 0.6         |
| 181.685         | H    | 36.7                | -19.6            | 17.1                 | 30                | 12.9           | 219         | 51.1        |
| 192.568         | V    | 35.0                | -19.6            | 15.4                 | 30                | 14.6           | 108         | 0.6         |
| 500.409         | H    | 34.3                | -8.6             | 25.7                 | 37                | 11.3           | 103         | 10.4        |
| 988.265         | H    | 23.6                | -0.8             | 22.8                 | 37                | 14.2           | 387         | 227.3       |
| 996.088         | V    | 23.6                | -0.4             | 23.2                 | 37                | 13.8           | 326         | 4.5         |

Note) Receiving antenna polarization : Horizontal and/or Vertical

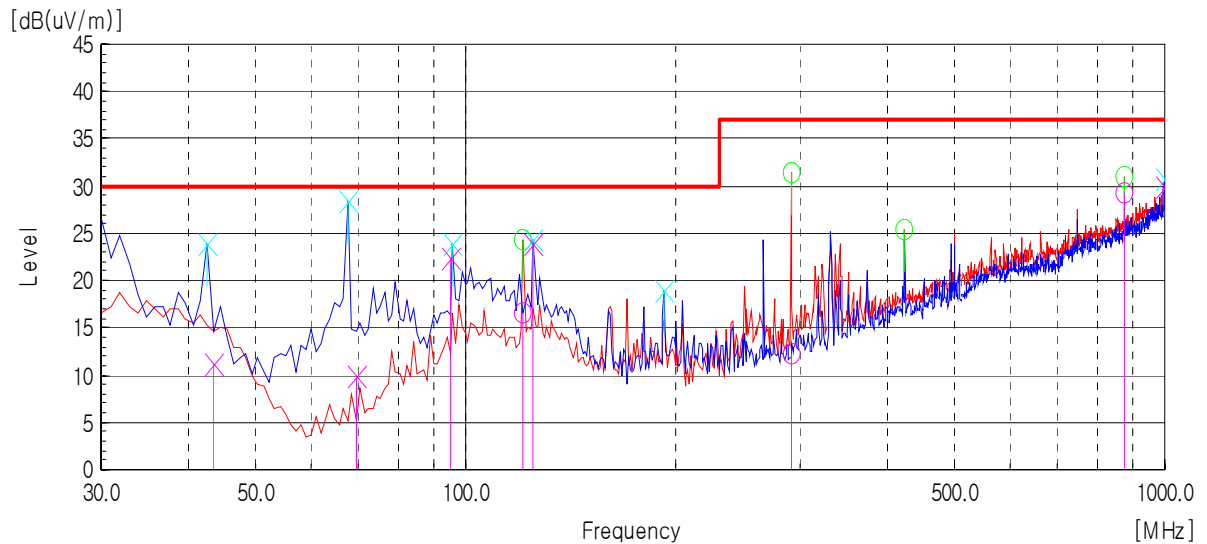
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 1 : 1284 port printing mode (Duplex)

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 43.557          | V    | 31.4                | -20.3            | 11.1                 | 30                | 18.9           | 345         | 165.2       |
| 69.705          | V    | 34.4                | -24.6            | 9.8                  | 30                | 20.2           | 398         | 59.9        |
| 95.125          | V    | 42.5                | -20.1            | 22.4                 | 30                | 7.6            | 101         | 324.1       |
| 120.798         | H    | 34.3                | -17.7            | 16.6                 | 30                | 13.4           | 395         | 237.3       |
| 124.783         | V    | 41.5                | -17.6            | 23.9                 | 30                | 6.1            | 112         | 351.6       |
| 291.768         | H    | 27.4                | -15.2            | 12.2                 | 37                | 24.8           | 298         | 0.3         |
| 874.579         | H    | 31.9                | -2.7             | 29.2                 | 37                | 7.8            | 101         | 281.5       |
| 998.044         | V    | 30.2                | -0.3             | 29.9                 | 37                | 7.1            | 120         | 70.7        |

Note) Receiving antenna polarization : Horizontal and/or Vertical

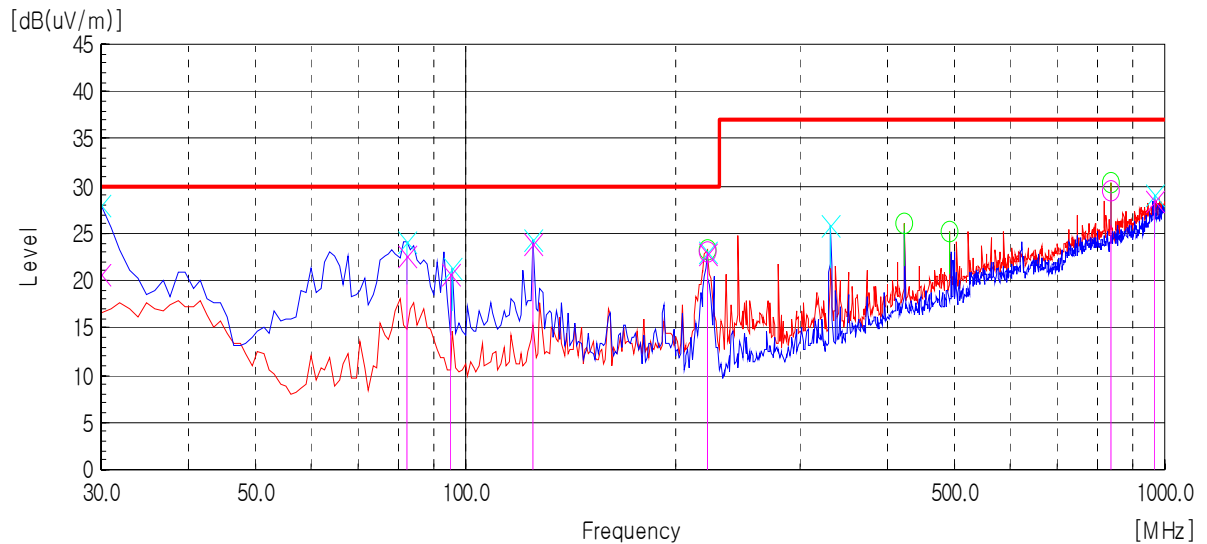
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 1 : DADF copy printing mode

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 30.000          | V    | 30.6                | -10.0            | 20.6                 | 30                | 9.4            | 102         | 277.8       |
| 82.197          | V    | 45.6                | -23.0            | 22.6                 | 30                | 7.4            | 124         | 0.4         |
| 95.048          | V    | 40.8                | -20.2            | 20.6                 | 30                | 9.4            | 152         | 359.0       |
| 124.783         | V    | 41.5                | -17.6            | 23.9                 | 30                | 6.1            | 113         | 4.7         |
| 221.078         | V    | 41.6                | -18.8            | 22.8                 | 30                | 7.2            | 105         | 281.8       |
| 221.956         | H    | 42.1                | -19.0            | 23.1                 | 30                | 6.9            | 398         | 263.0       |
| 837.015         | H    | 32.9                | -3.4             | 29.5                 | 37                | 7.5            | 108         | 352.0       |
| 967.245         | V    | 29.3                | -0.8             | 28.5                 | 37                | 8.5            | 298         | 355.3       |

Note) Receiving antenna polarization : Horizontal and/or Vertical

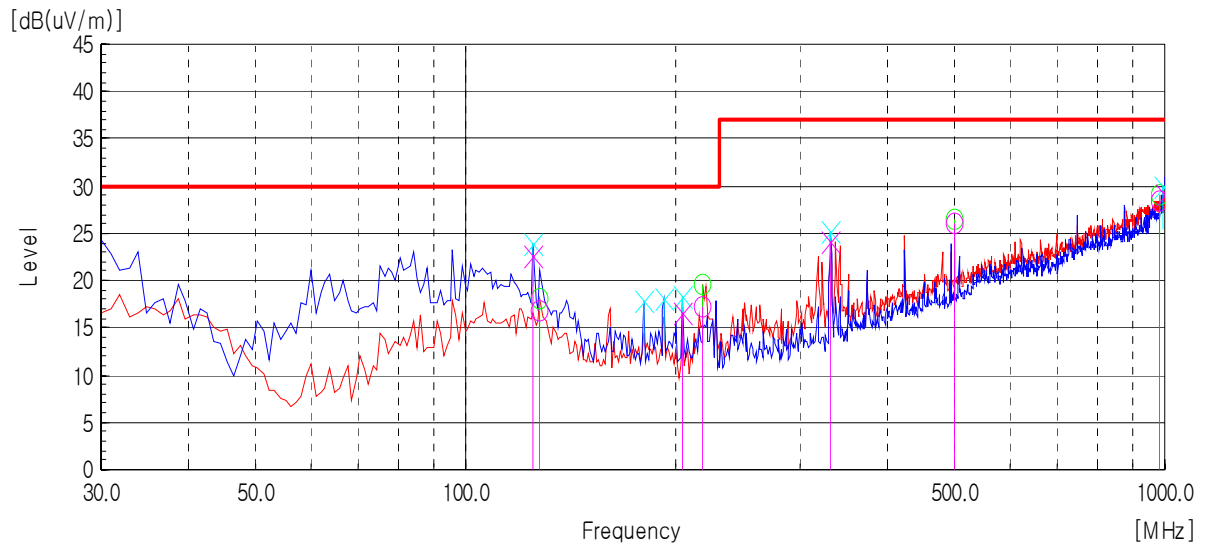
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 1 : Scan to PC mode

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 124.781         | V    | 40.1                | -17.6            | 22.5                 | 30                | 7.5            | 112         | 333.6       |
| 127.249         | H    | 34.5                | -17.7            | 16.8                 | 30                | 13.2           | 399         | 4.1         |
| 203.597         | V    | 35.9                | -19.4            | 16.5                 | 30                | 13.5           | 105         | 4.5         |
| 218.015         | H    | 36.5                | -19.3            | 17.2                 | 30                | 12.8           | 297         | 238.1       |
| 332.397         | V    | 37.5                | -13.3            | 24.2                 | 37                | 12.8           | 379         | 88.3        |
| 500.128         | H    | 34.6                | -8.6             | 26.0                 | 37                | 11             | 178         | 68.6        |
| 983.006         | H    | 29.3                | -0.8             | 28.5                 | 37                | 8.5            | 397         | 27.0        |
| 997.248         | V    | 29.4                | -0.3             | 29.1                 | 37                | 7.9            | 119         | 77.4        |

Note) Receiving antenna polarization : Horizontal and/or Vertical

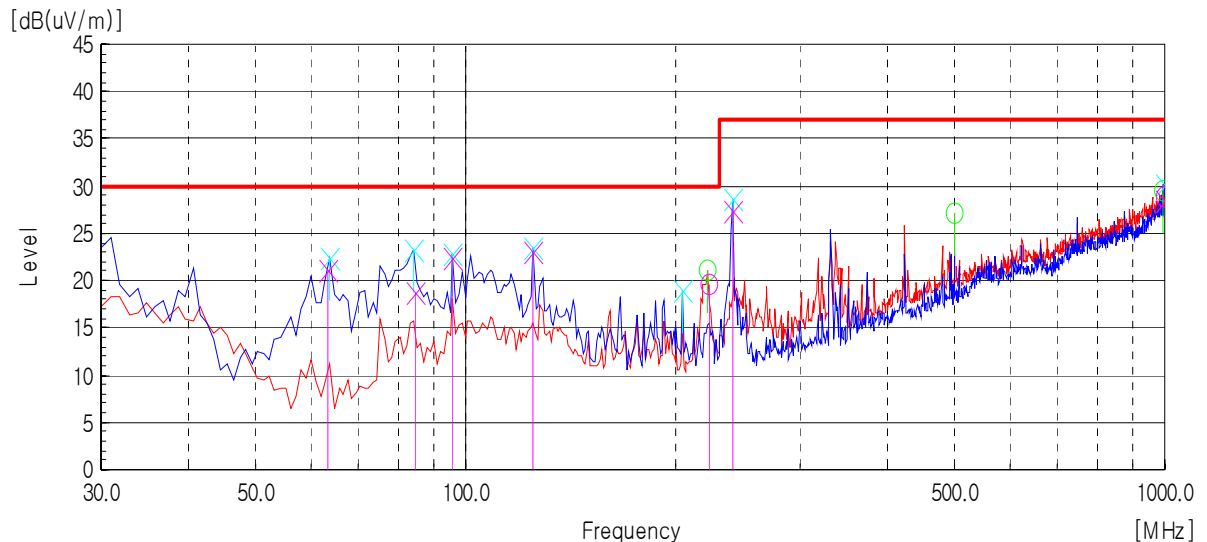
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 1 : Scan to USB memory stick mode

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 63.502          | V    | 46.0                | -24.9            | 21.1                 | 30                | 8.9            | 112         | 333.2       |
| 84.689          | V    | 41.3                | -22.5            | 18.8                 | 30                | 11.2           | 105         | 52.5        |
| 95.358          | V    | 42.5                | -20.1            | 22.4                 | 30                | 7.6            | 116         | 359.6       |
| 124.783         | V    | 40.6                | -17.6            | 23.0                 | 30                | 7.0            | 249         | 324.7       |
| 222.594         | H    | 38.7                | -19.0            | 19.7                 | 30                | 10.3           | 396         | 261.4       |
| 240.258         | V    | 44.5                | -17.1            | 27.4                 | 37                | 9.6            | 400         | 36.0        |
| 997.357         | H    | 29.5                | -0.6             | 28.9                 | 37                | 8.1            | 387         | 352.1       |
| 998.159         | V    | 28.8                | -0.3             | 28.5                 | 37                | 8.5            | 106         | 58.8        |

Note) Receiving antenna polarization : Horizontal and/or Vertical

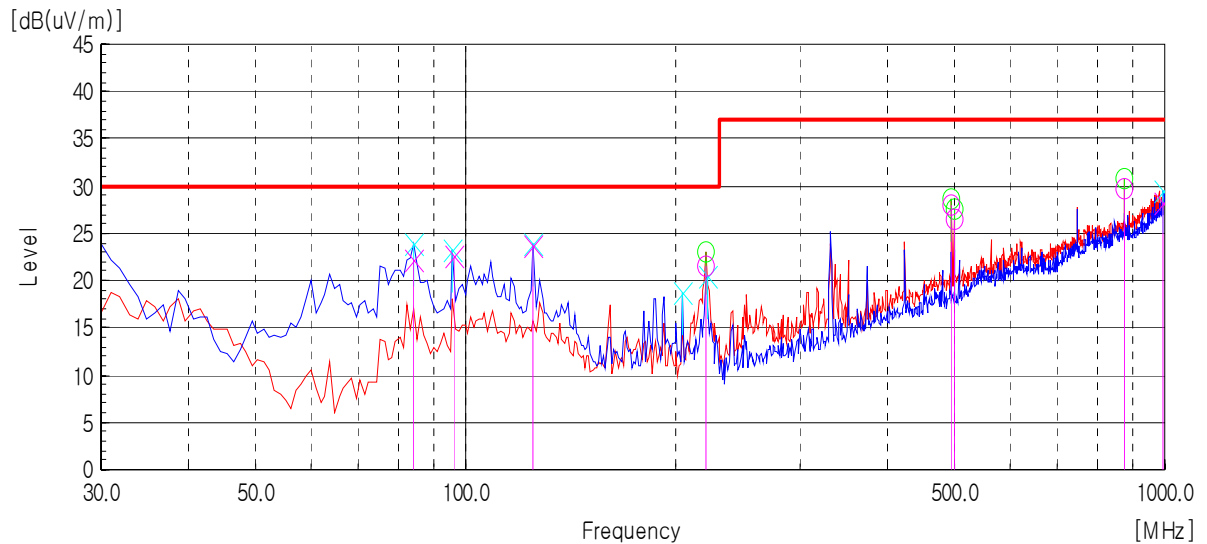
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 1 : Fax transmission mode

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 84.241          | V    | 44.8                | -22.6            | 22.2                 | 30                | 7.8            | 115         | 301.6       |
| 95.759          | V    | 42.5                | -20.0            | 22.5                 | 30                | 7.5            | 102         | 301.6       |
| 124.781         | V    | 41.2                | -17.6            | 23.6                 | 30                | 6.4            | 287         | 351.6       |
| 220.547         | H    | 40.6                | -19.1            | 21.5                 | 30                | 8.5            | 381         | 244.7       |
| 495.678         | H    | 36.6                | -8.7             | 27.9                 | 37                | 9.1            | 109         | 299.6       |
| 500.221         | H    | 35.0                | -8.6             | 26.4                 | 37                | 10.6           | 110         | 69.2        |
| 874.513         | H    | 32.5                | -2.7             | 29.8                 | 37                | 7.2            | 248         | 237.4       |
| 997.065         | V    | 28.4                | -0.3             | 28.1                 | 37                | 8.9            | 101         | 39.8        |

Note) Receiving antenna polarization : Horizontal and/or Vertical

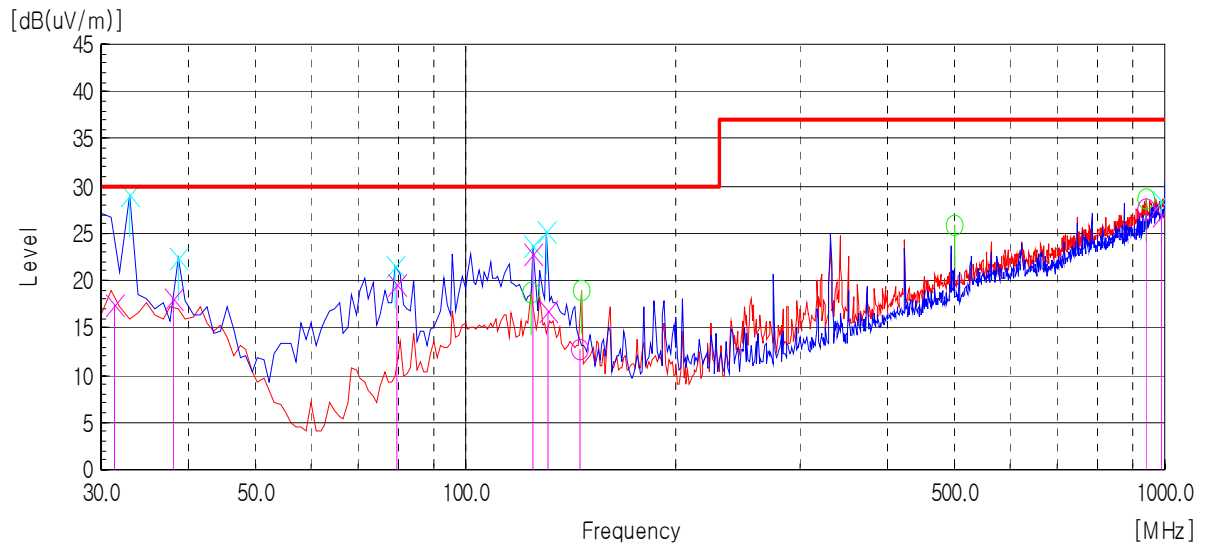
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 1 : Fax receiving mode

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 31.415          | V    | 28.8                | -11.4            | 17.4                 | 30                | 12.6           | 112         | 182.2       |
| 38.014          | V    | 35.2                | -17.2            | 18.0                 | 30                | 12.0           | 267         | 148.2       |
| 79.579          | V    | 43.0                | -23.4            | 19.6                 | 30                | 10.4           | 132         | 193.3       |
| 124.781         | V    | 40.4                | -17.6            | 22.8                 | 30                | 7.2            | 106         | 281.0       |
| 131.058         | V    | 34.5                | -17.7            | 16.8                 | 30                | 13.2           | 114         | 281.0       |
| 145.278         | H    | 30.9                | -18.3            | 12.6                 | 30                | 17.4           | 367         | 104.5       |
| 943.279         | H    | 28.6                | -1.0             | 27.6                 | 37                | 9.4            | 397         | 60.9        |
| 988.265         | V    | 27.5                | -0.6             | 26.9                 | 37                | 10.1           | 400         | 41.2        |

Note) Receiving antenna polarization : Horizontal and/or Vertical

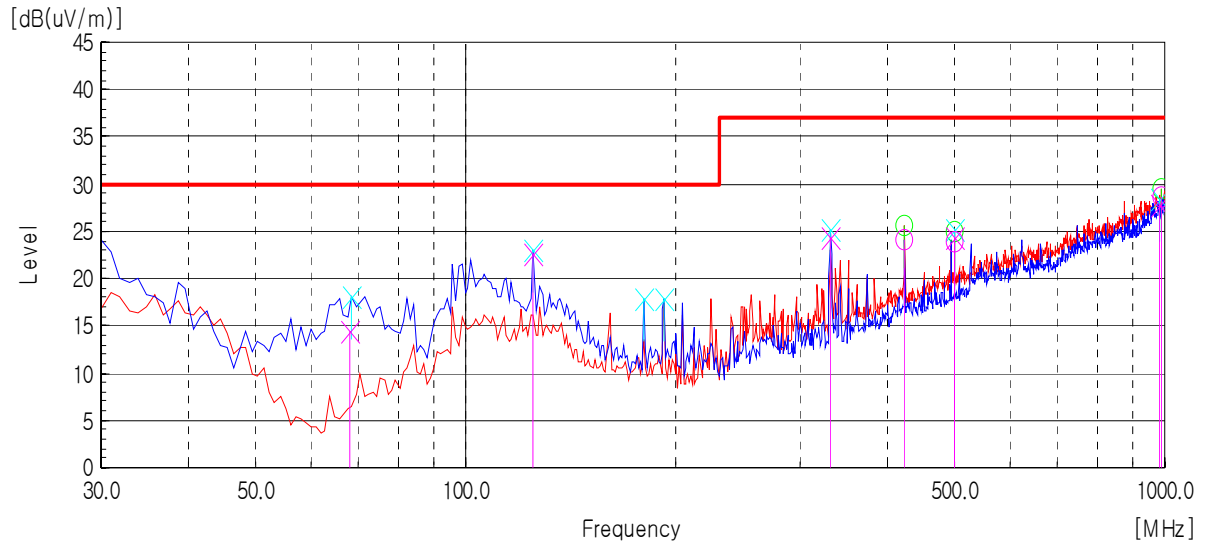
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 2 : Stand-by mode

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 68.158          | V    | 39.2                | -24.7            | 14.5                 | 30                | 15.5           | 104         | 327.5       |
| 124.783         | V    | 40.3                | -17.6            | 22.7                 | 30                | 7.3            | 108         | 358.9       |
| 332.985         | V    | 37.7                | -13.3            | 24.4                 | 37                | 12.6           | 387         | 77.4        |
| 423.258         | H    | 34.2                | -10.0            | 24.2                 | 37                | 12.8           | 115         | 64.7        |
| 500.204         | V    | 33.0                | -8.7             | 24.3                 | 37                | 12.7           | 265         | 17.4        |
| 500.578         | H    | 32.6                | -8.6             | 24.0                 | 37                | 13.0           | 248         | 4.1         |
| 983.375         | V    | 28.5                | -0.7             | 27.8                 | 37                | 9.2            | 367         | 8.0         |
| 988.265         | H    | 29.4                | -0.8             | 28.6                 | 37                | 8.4            | 395         | 264.4       |

Note) Receiving antenna polarization : Horizontal and/or Vertical

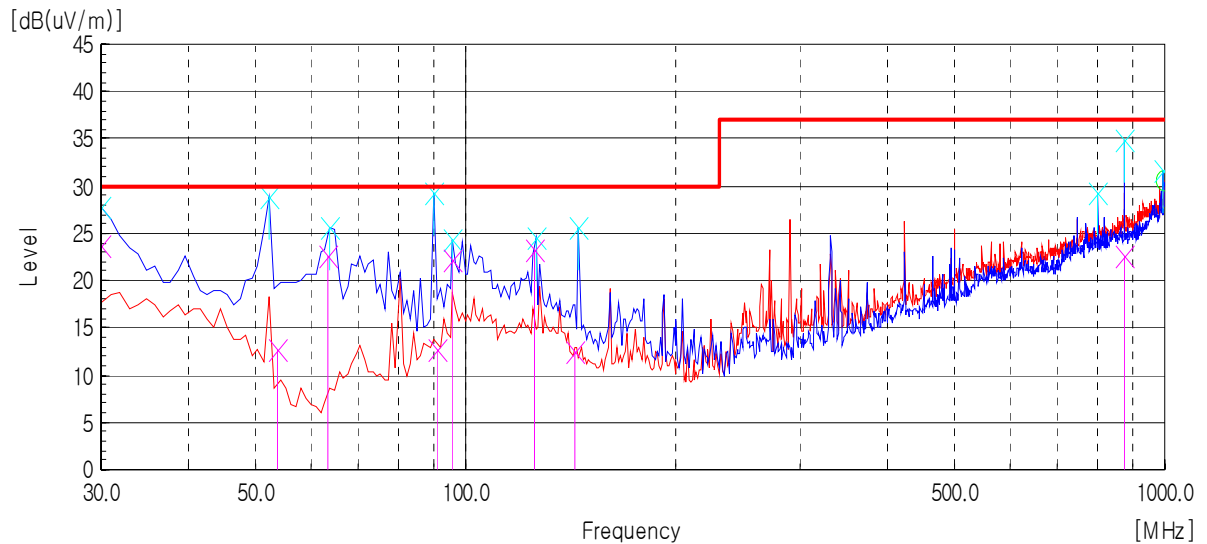
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 2 : 1284 port printing mode (Duplex)

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 30.000          | V    | 33.6                | -10.0            | 23.6                 | 30                | 6.4            | 108         | 261.2       |
| 53.564          | V    | 37.0                | -24.2            | 12.8                 | 30                | 17.2           | 110         | 342.6       |
| 63.248          | V    | 47.4                | -24.9            | 22.5                 | 30                | 7.5            | 102         | 254.3       |
| 90.798          | V    | 33.8                | -21.1            | 12.7                 | 30                | 17.3           | 126         | 10.2        |
| 95.275          | V    | 42.2                | -20.1            | 22.1                 | 30                | 7.9            | 116         | 288.8       |
| 125.002         | V    | 40.9                | -17.6            | 23.3                 | 30                | 6.7            | 115         | 355.3       |
| 143.280         | V    | 30.9                | -18.3            | 12.6                 | 30                | 17.4           | 349         | 44.4        |
| 874.973         | V    | 25.5                | -2.9             | 22.6                 | 37                | 14.4           | 150         | 72.2        |

Note) Receiving antenna polarization : Horizontal and/or Vertical

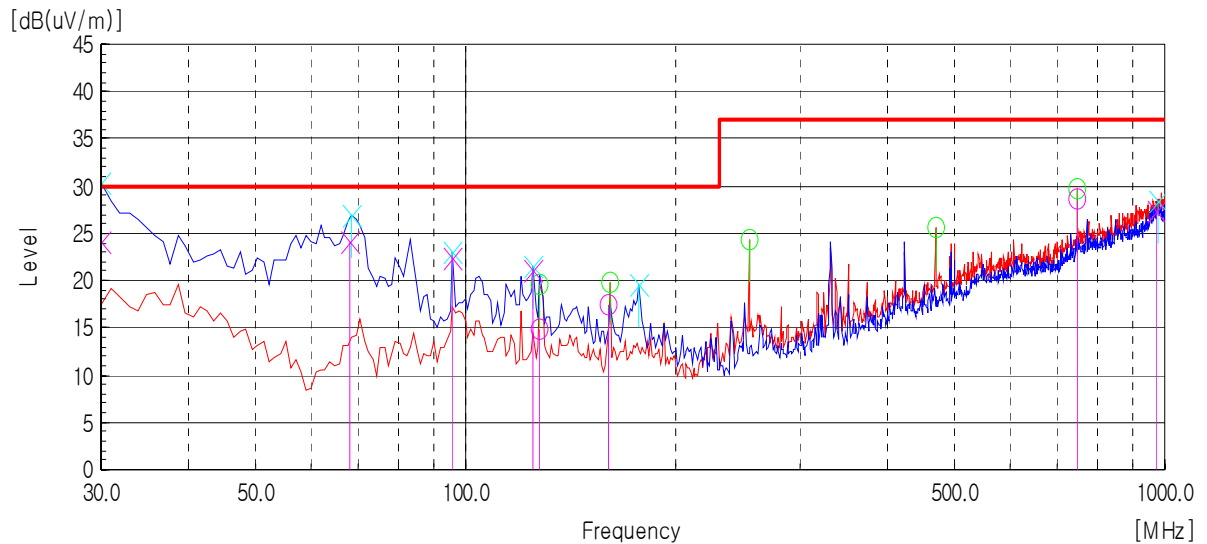
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 2 : DADF copy printing mode

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 30.000          | V    | 34.2                | -10.0            | 24.2                 | 30                | 5.8            | 102         | 335.8       |
| 67.976          | V    | 48.8                | -24.7            | 24.1                 | 30                | 5.9            | 212         | 42.3        |
| 95.268          | V    | 42.5                | -20.1            | 22.4                 | 30                | 7.6            | 101         | 4.8         |
| 124.784         | V    | 38.7                | -17.6            | 21.1                 | 30                | 8.9            | 106         | 318.1       |
| 127.649         | H    | 32.5                | -17.7            | 14.8                 | 30                | 15.2           | 398         | 4.5         |
| 160.226         | H    | 36.6                | -19.1            | 17.5                 | 30                | 12.5           | 346         | 69.0        |
| 749.495         | H    | 32.9                | -4.3             | 28.6                 | 37                | 8.4            | 108         | 237.1       |
| 975.159         | V    | 28.2                | -0.8             | 27.4                 | 37                | 9.6            | 232         | 355.3       |

Note) Receiving antenna polarization : Horizontal and/or Vertical

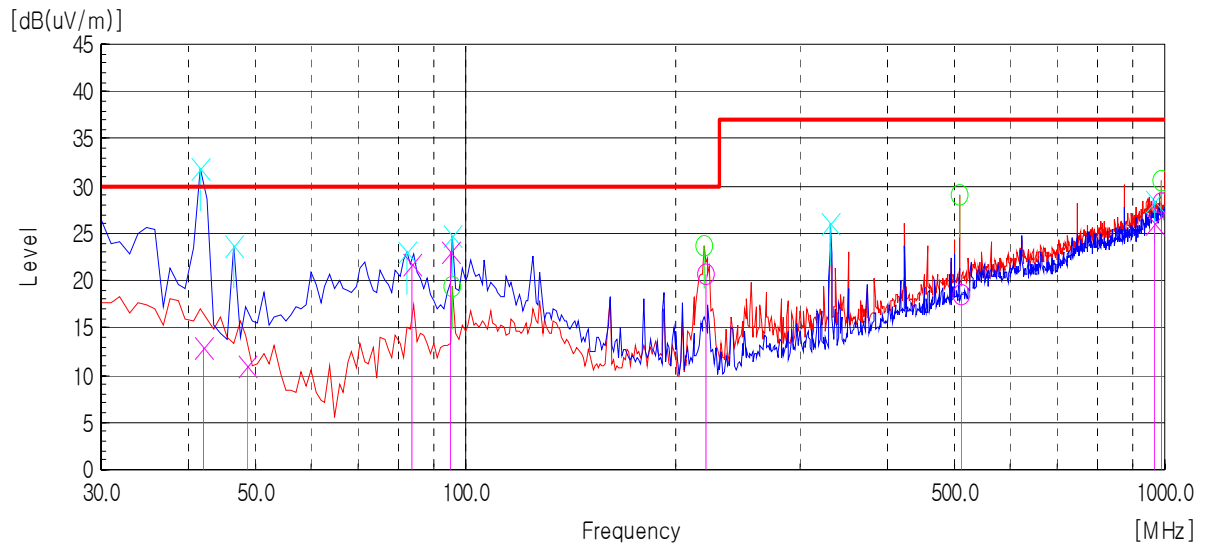
Test Distance : 10m, Antenna Height : 1 to 4 meters

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

- Configuration 2 : Fax transmission mode

### Test Graph and Results



| Frequency [MHz] | Pol. | Reading QP [dB(μV)] | Factor [dB(1/m)] | Level QP [dB(μV /m)] | Limit [dB(μV /m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|-----------------|------|---------------------|------------------|----------------------|-------------------|----------------|-------------|-------------|
| 42.127          | V    | 32.5                | -19.6            | 12.9                 | 30                | 17.1           | 105         | 165.6       |
| 48.444          | V    | 33.4                | -22.5            | 10.9                 | 30                | 19.1           | 395         | 165.6       |
| 83.489          | V    | 44.5                | -22.7            | 21.8                 | 30                | 8.2            | 107         | 236.2       |
| 95.148          | V    | 43.2                | -20.1            | 23.1                 | 30                | 6.9            | 127         | 254.0       |
| 220.158         | H    | 39.8                | -19.1            | 20.7                 | 30                | 9.3            | 367         | 238.2       |
| 510.489         | H    | 27.1                | -8.5             | 18.6                 | 37                | 18.4           | 148         | 272.4       |
| 966.750         | V    | 26.9                | -0.8             | 26.1                 | 37                | 10.9           | 329         | 0.3         |
| 987.287         | H    | 29.1                | -0.8             | 28.3                 | 37                | 8.7            | 116         | 245.8       |

Note) Receiving antenna polarization : Horizontal and/or Vertical

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

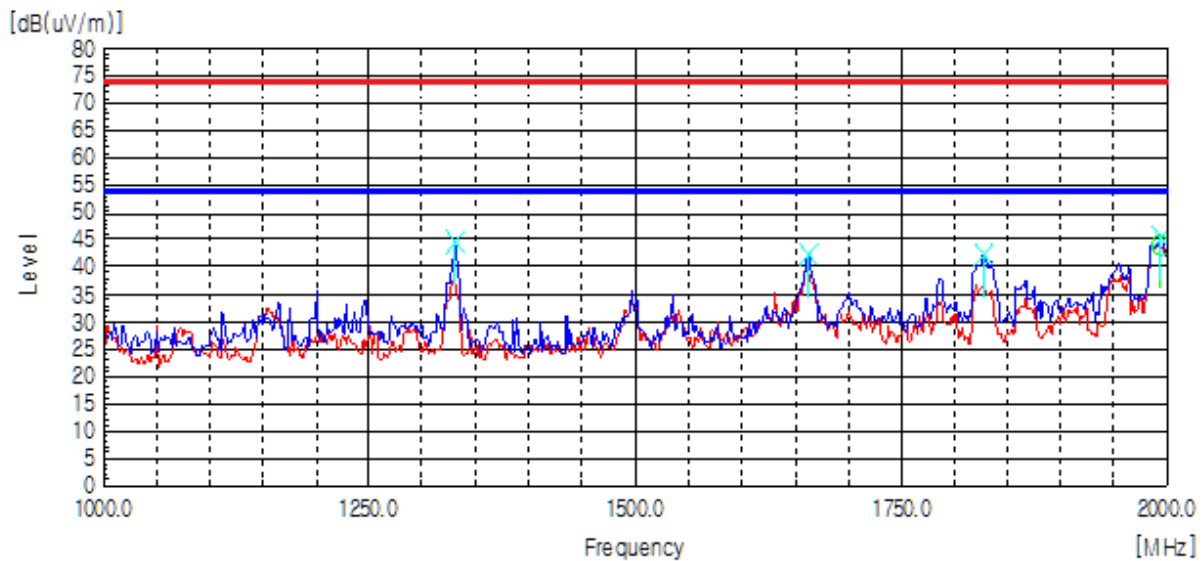
Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit – Level QP

#### 4.2.4.2 1 GHz to 2 GHz test results

- Configuration 1 : Stand-by Mode

#### Test Results



#### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1330.661        | V   | 57.2                | -12.6            | 44.6                | 74               | 29.4           | 100         | 189.7       |
| 1661.323        | V   | 51.9                | -9.5             | 42.4                | 74               | 31.6           | 100         | 15.5        |
| 1827.655        | V   | 50.7                | -8.2             | 42.5                | 74               | 31.5           | 100         | 126.7       |
| 1993.988        | V   | 52.4                | -6.8             | 45.6                | 74               | 28.4           | 100         | 142.5       |
| 1993.988        | H   | 50.9                | -6.8             | 44.1                | 74               | 29.9           | 100         | 105.3       |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

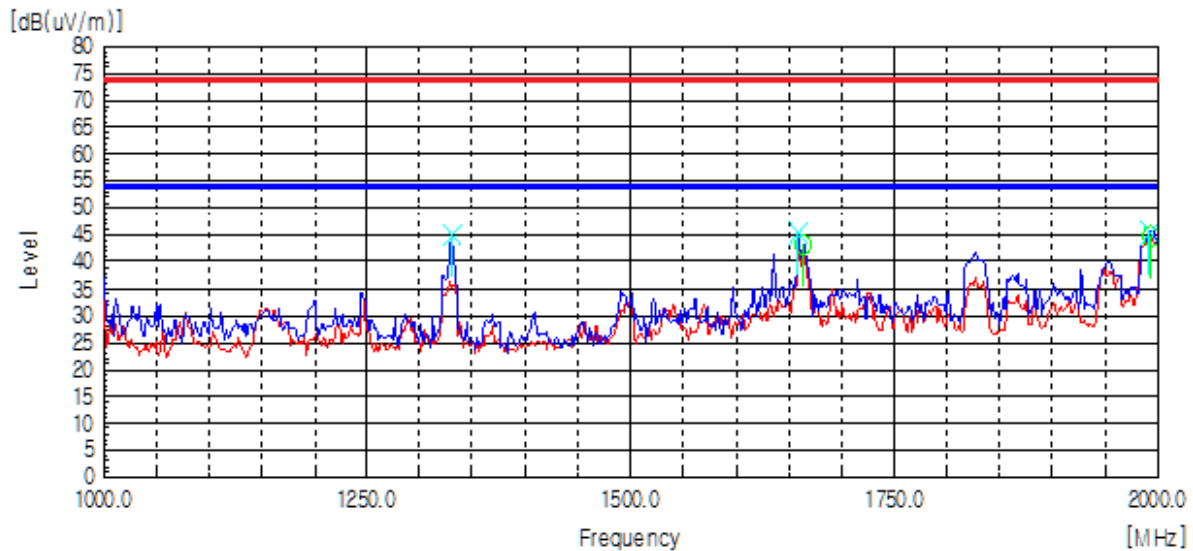
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 1 : USB printing Mode (Duplex)

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1330.661        | V   | 57.8                | -12.6            | 45.2                | 74               | 28.8           | 100         | 350.1       |
| 1659.319        | V   | 55.3                | -9.6             | 45.7                | 74               | 28.3           | 100         | 63.7        |
| 1663.327        | H   | 52.8                | -9.5             | 43.3                | 74               | 30.7           | 100         | 352.4       |
| 1991.984        | V   | 52.5                | -6.8             | 45.7                | 74               | 28.3           | 100         | 144.5       |
| 1993.988        | H   | 51.4                | -6.8             | 44.6                | 74               | 29.4           | 100         | 100.8       |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

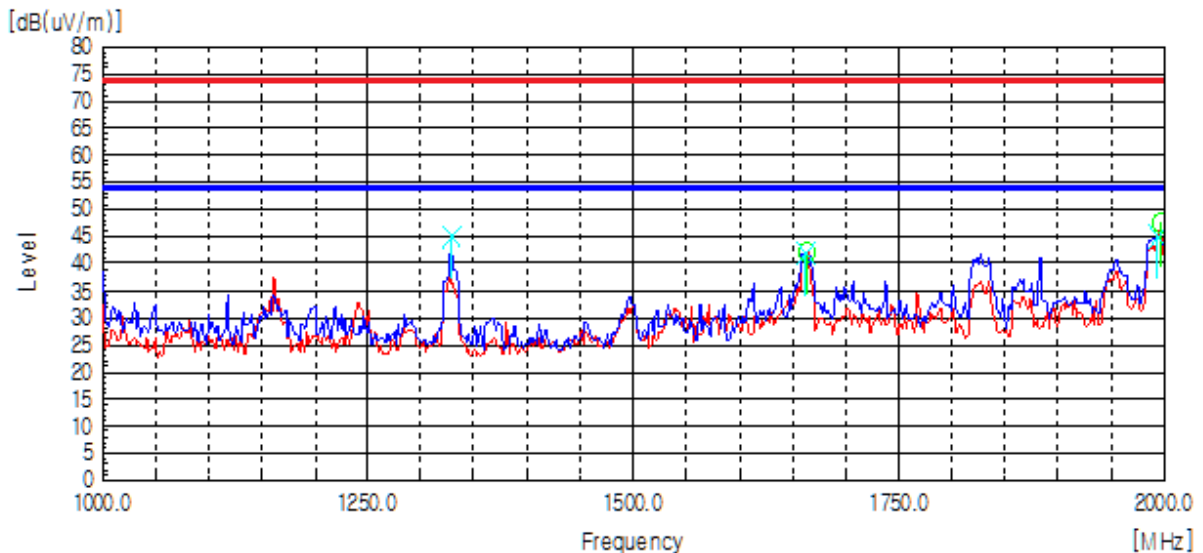
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 1 : Network printing Mode (Duplex)

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1328.657        | V   | 57.7                | -12.6            | 45.1                | 74               | 28.9           | 100         | 349.4       |
| 1661.323        | V   | 51.6                | -9.5             | 42.1                | 74               | 31.9           | 100         | 4.4         |
| 1663.327        | H   | 51.6                | -9.5             | 42.1                | 74               | 31.9           | 100         | 352.3       |
| 1993.988        | V   | 52.0                | -6.8             | 45.2                | 74               | 28.8           | 100         | 143.4       |
| 1995.992        | H   | 54.3                | -6.8             | 47.5                | 74               | 26.5           | 100         | 37.3        |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

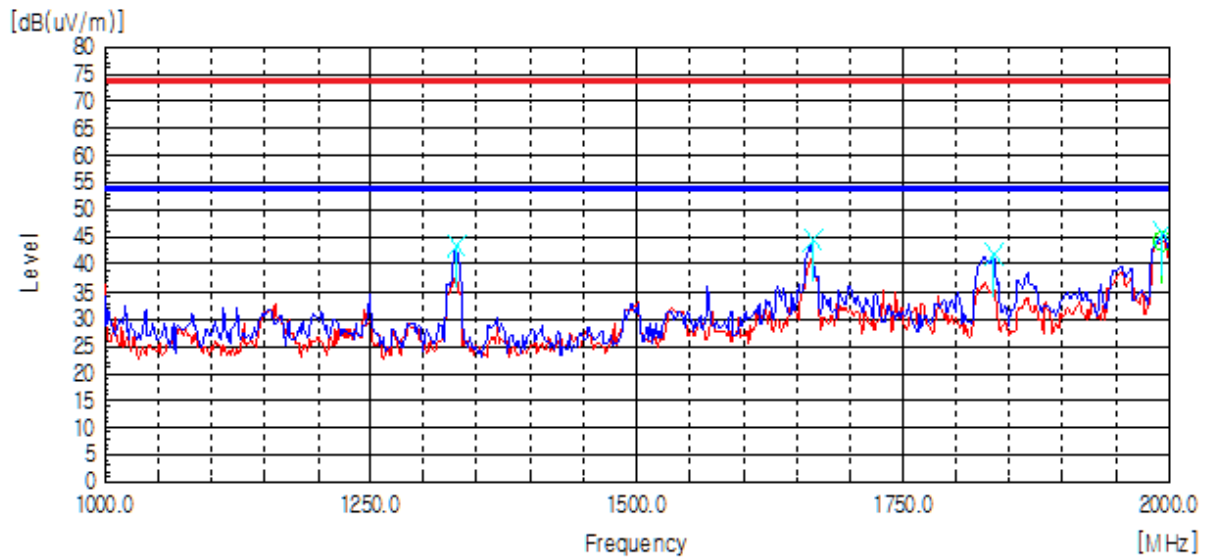
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 1 : 1284 port printing Mode (Duplex)

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1330.661        | V   | 56.4                | -12.6            | 43.8                | 74               | 30.2           | 100         | 295.2       |
| 1665.331        | V   | 54.1                | -9.5             | 44.6                | 74               | 29.4           | 100         | 15.8        |
| 1835.671        | V   | 50.2                | -8.1             | 42.1                | 74               | 31.9           | 100         | 79.9        |
| 1993.988        | V   | 52.6                | -6.8             | 45.8                | 74               | 28.2           | 100         | 48.2        |
| 1993.988        | H   | 51.1                | -6.8             | 44.3                | 74               | 29.7           | 100         | 159         |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

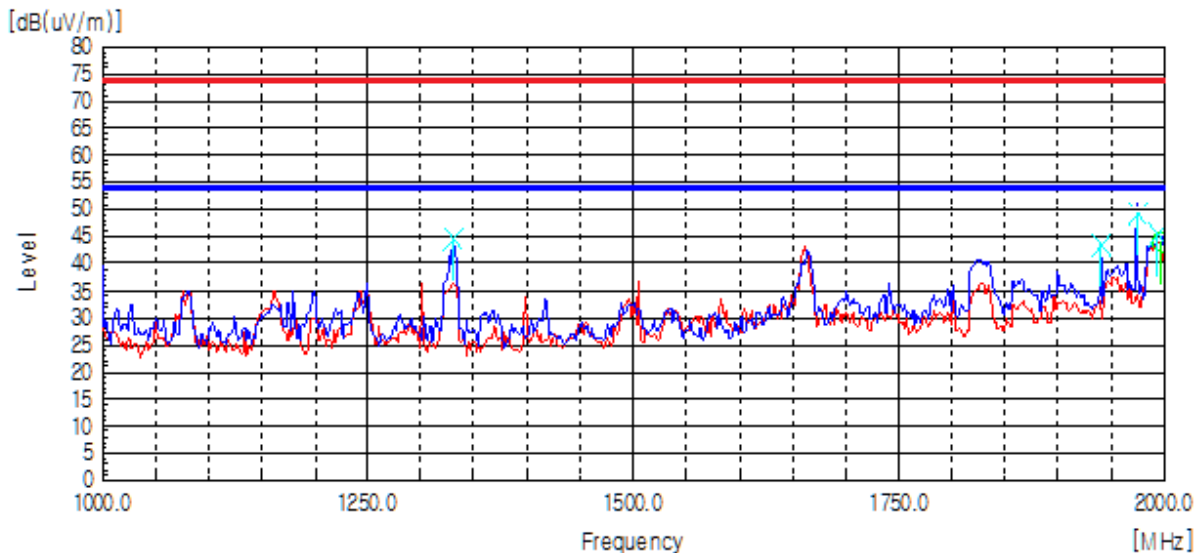
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 1 : DADF copy printing Mode

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1330.661        | V   | 57.5                | -12.6            | 44.9                | 74               | 29.1           | 100         | 347.7       |
| 1939.880        | V   | 50.8                | -7.2             | 43.6                | 74               | 30.4           | 100         | 333.0       |
| 1973.948        | V   | 56.5                | -7.0             | 49.5                | 74               | 24.5           | 100         | 94.7        |
| 1993.988        | V   | 52.2                | -6.8             | 45.4                | 74               | 28.6           | 100         | 94.7        |
| 1995.992        | H   | 50.8                | -6.8             | 44.0                | 74               | 30.0           | 100         | 105.8       |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

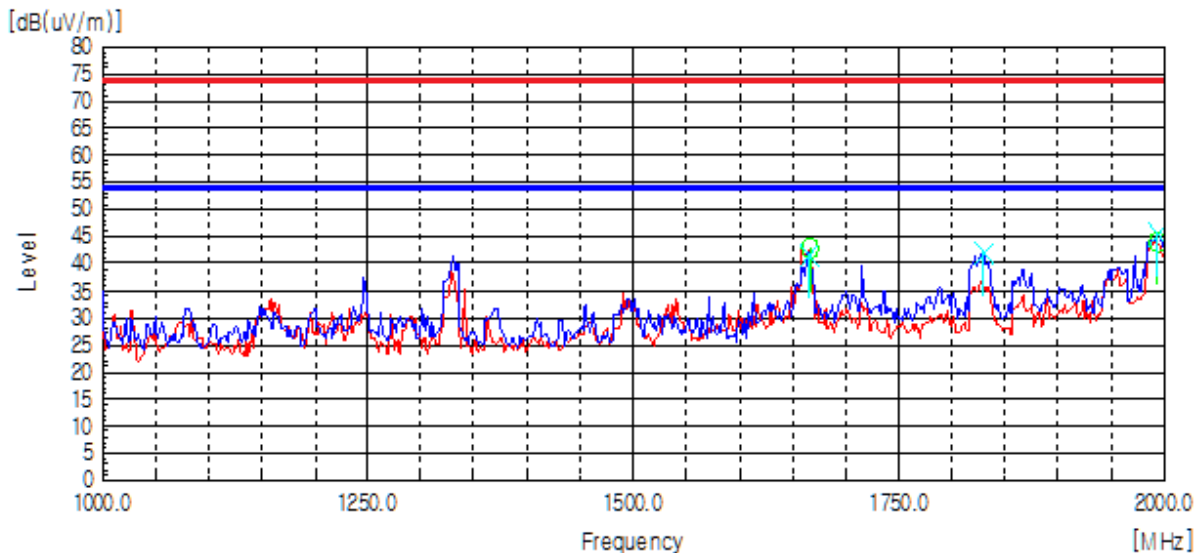
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 1 : Scan to PC Mode

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1665.331        | V   | 51.4                | -9.5             | 41.9                | 74               | 32.1           | 100         | 47.3        |
| 1667.335        | H   | 52.5                | -9.5             | 43.0                | 74               | 31.0           | 100         | 74.3        |
| 1829.659        | V   | 50.3                | -8.2             | 42.1                | 74               | 31.9           | 100         | 126.1       |
| 1993.988        | V   | 52.2                | -6.8             | 45.4                | 74               | 28.6           | 100         | 94.6        |
| 1993.988        | H   | 50.7                | -6.8             | 43.9                | 74               | 30.1           | 100         | 42.7        |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

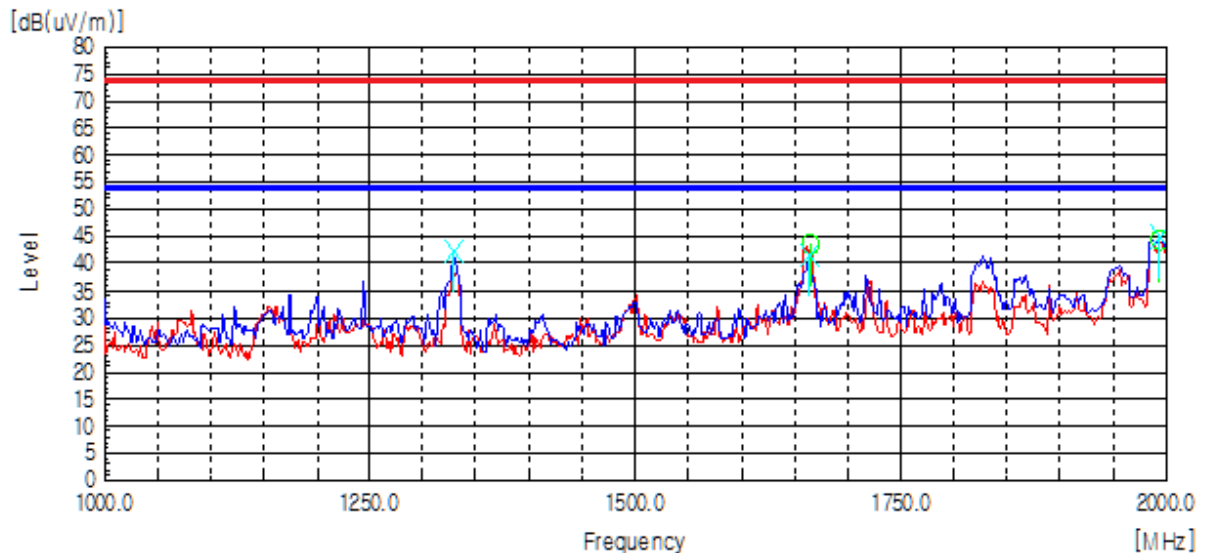
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 1 : Scan to USB memory stick Mode

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1328.657        | V   | 55.0                | -12.6            | 42.4                | 74               | 31.6           | 100         | 191.0       |
| 1663.327        | V   | 51.1                | -9.5             | 41.6                | 74               | 32.4           | 100         | 63.9        |
| 1665.331        | H   | 53.3                | -9.5             | 43.8                | 74               | 30.2           | 100         | 352.4       |
| 1993.988        | V   | 51.9                | -6.8             | 45.1                | 74               | 28.9           | 100         | 143.7       |
| 1993.988        | H   | 51.2                | -6.8             | 44.4                | 74               | 29.6           | 100         | 105.8       |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

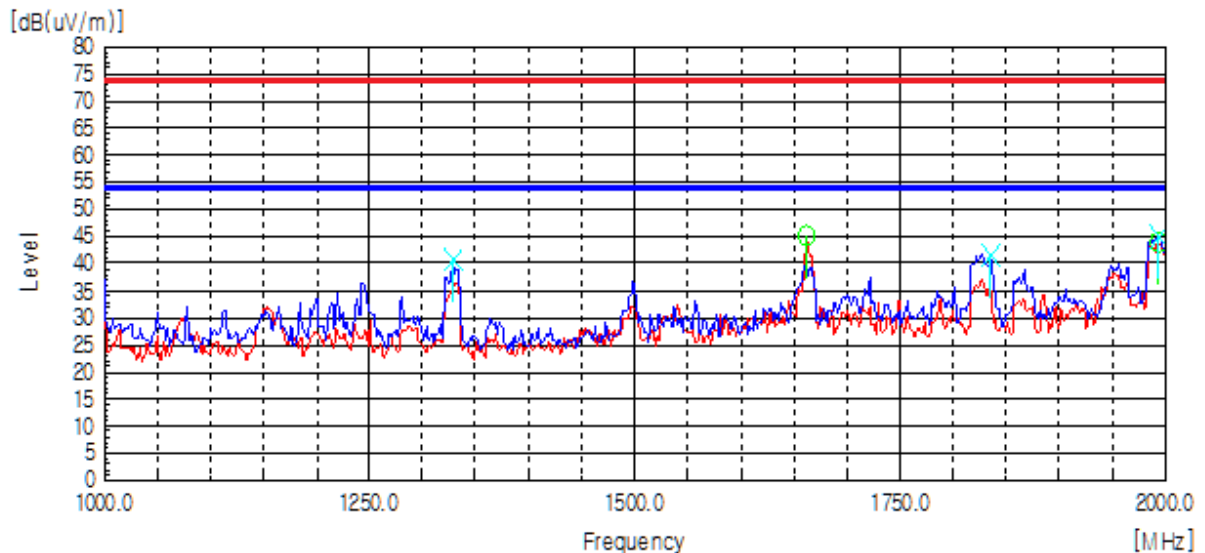
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 1 : Fax transmission Mode

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1328.657        | V   | 53.7                | -12.6            | 41.1                | 74               | 32.9           | 100         | 189.6       |
| 1661.323        | H   | 54.8                | -9.5             | 45.3                | 74               | 28.7           | 100         | 352.4       |
| 1835.671        | V   | 49.9                | -8.1             | 41.8                | 74               | 32.2           | 100         | 126.5       |
| 1993.988        | V   | 52.1                | -6.8             | 45.3                | 74               | 28.7           | 100         | 95.0        |
| 1993.988        | H   | 51.0                | -6.8             | 44.2                | 74               | 29.8           | 100         | 90.1        |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

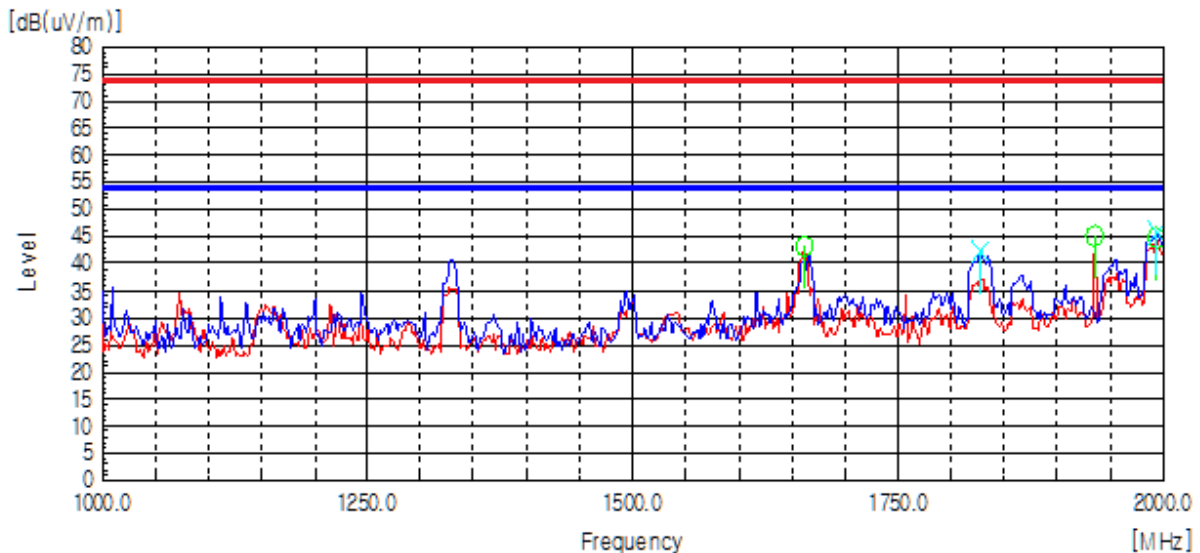
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 1 : Fax receiving Mode

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1661.323        | H   | 52.6                | -9.5             | 43.1                | 74               | 30.9           | 100         | 343.9       |
| 1827.655        | V   | 50.5                | -8.2             | 42.3                | 74               | 31.7           | 100         | 131.2       |
| 1935.872        | H   | 52.4                | -7.3             | 45.1                | 74               | 28.9           | 100         | 103.8       |
| 1993.988        | V   | 52.9                | -6.8             | 46.1                | 74               | 27.9           | 100         | 4.9         |
| 1993.988        | H   | 51.4                | -6.8             | 44.6                | 74               | 29.4           | 100         | 103.8       |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

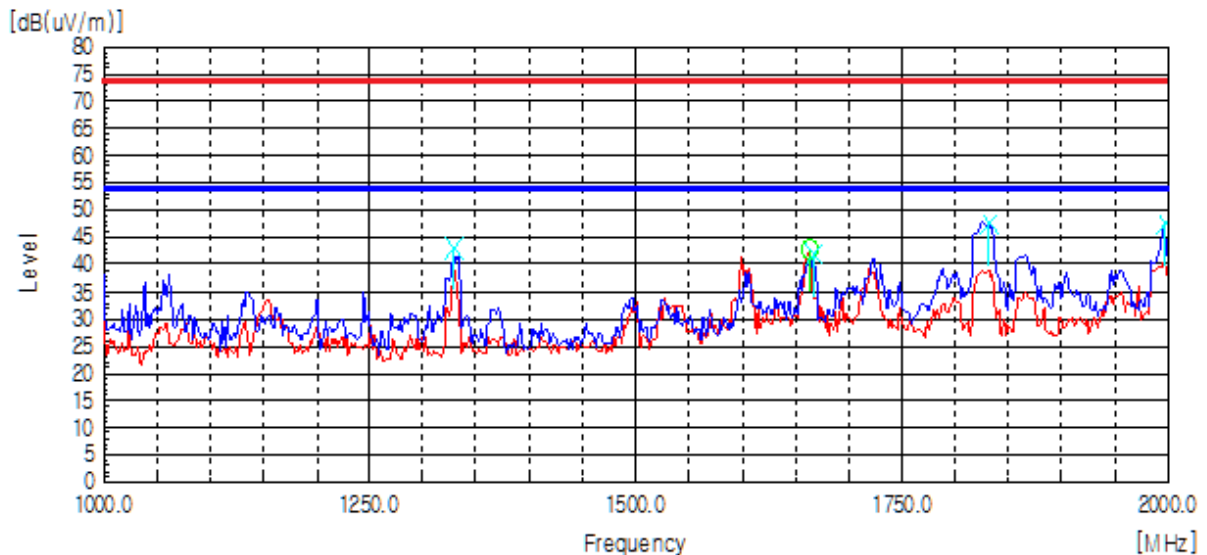
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 2 : Stand-by Mode

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1328.657        | V   | 55.7                | -12.6            | 43.1                | 74               | 30.9           | 100         | 358.1       |
| 1663.327        | H   | 52.3                | -9.5             | 42.8                | 74               | 31.2           | 100         | 355.7       |
| 1667.335        | V   | 51.8                | -9.5             | 42.3                | 74               | 31.7           | 100         | 15.8        |
| 1831.663        | V   | 56.1                | -8.1             | 48.0                | 74               | 26.0           | 100         | 94.5        |
| 1995.992        | V   | 54.6                | -6.8             | 47.8                | 74               | 26.2           | 100         | 0.3         |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

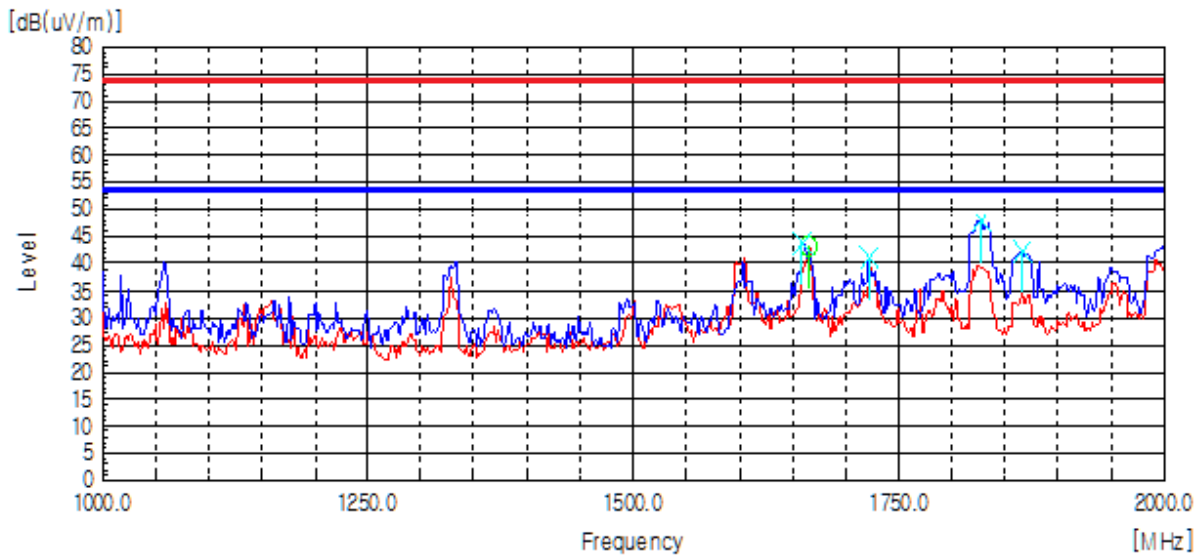
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 2 : 1284 port printing Mode (Duplex)

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1659.319        | V   | 53.8                | -9.6             | 44.2                | 74               | 29.8           | 100         | 47.2        |
| 1665.331        | H   | 52.8                | -9.5             | 43.3                | 74               | 30.7           | 100         | 355.5       |
| 1721.443        | V   | 50.5                | -9.0             | 41.5                | 74               | 32.5           | 100         | 0.3         |
| 1827.655        | V   | 56.4                | -8.2             | 48.2                | 74               | 25.8           | 100         | 94.4        |
| 1865.732        | V   | 50.3                | -7.9             | 42.4                | 74               | 31.6           | 100         | 94.4        |
| 1659.319        | V   | 53.8                | -9.6             | 44.2                | 74               | 29.8           | 100         | 47.2        |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

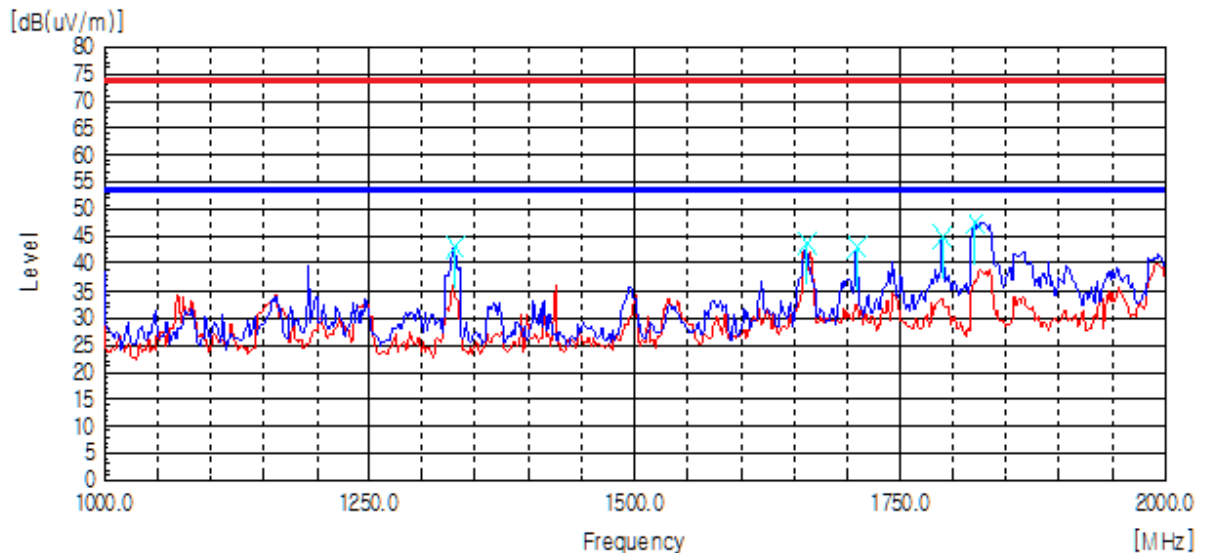
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 2 : DADF printing Mode

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1330.661        | V   | 55.9                | -12.6            | 43.3                | 74               | 30.7           | 100         | 189.5       |
| 1661.323        | V   | 53.5                | -9.5             | 44.0                | 74               | 30.0           | 100         | 110.7       |
| 1709.419        | V   | 52.5                | -9.1             | 43.4                | 74               | 30.6           | 100         | 221.0       |
| 1789.579        | V   | 53.8                | -8.5             | 45.3                | 74               | 28.7           | 100         | 62.4        |
| 1819.639        | V   | 56.0                | -8.2             | 47.8                | 74               | 26.2           | 100         | 94.9        |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

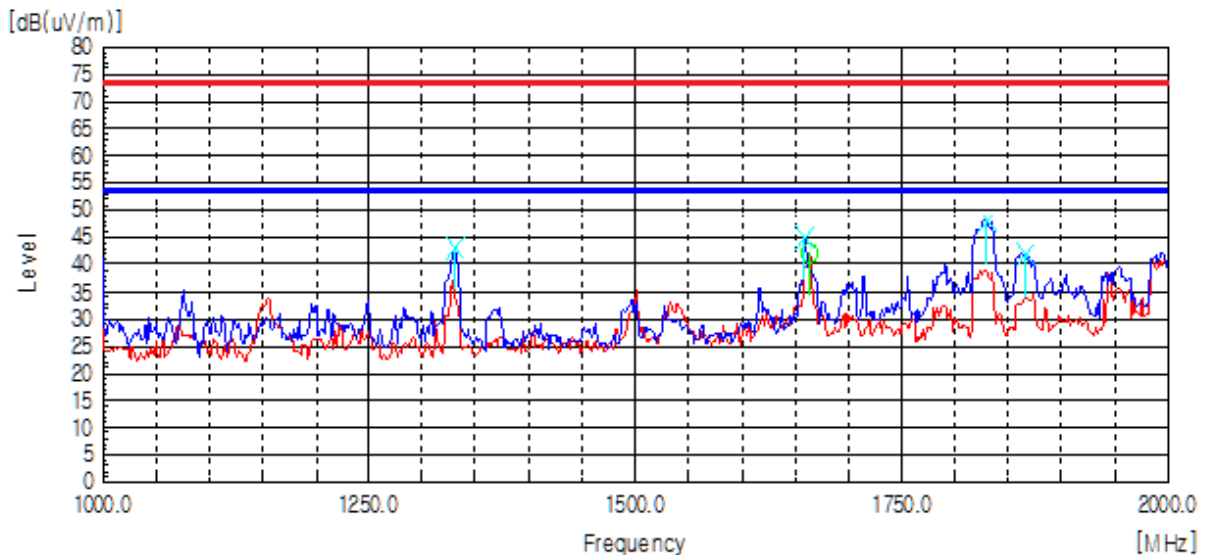
Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

- Configuration 2 : Fax transmission Mode

## Test Results



### Peak Measurement

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1330.661        | V   | 55.8                | -12.6            | 43.2                | 74               | 30.8           | 100         | 190.0       |
| 1659.319        | V   | 54.7                | -9.6             | 45.1                | 74               | 28.9           | 100         | 63.0        |
| 1663.327        | H   | 51.7                | -9.5             | 42.2                | 74               | 31.8           | 100         | 328.9       |
| 1829.659        | V   | 56.6                | -8.2             | 48.4                | 74               | 25.6           | 100         | 94.5        |
| 1865.732        | V   | 50.0                | -7.9             | 42.1                | 74               | 31.9           | 100         | 94.5        |

Note1) Representative operating modes were selected by customer and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(Peak) = Reading PK(Peak) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Level AV (Average) = Reading AV (Average) + Factor(Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

## Appendix – EUT photography



Front View



Rear View & Label location



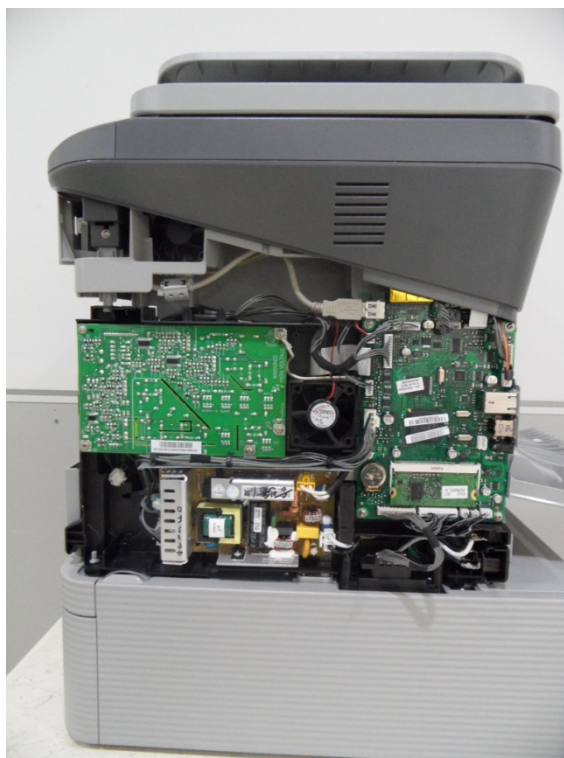
Left View



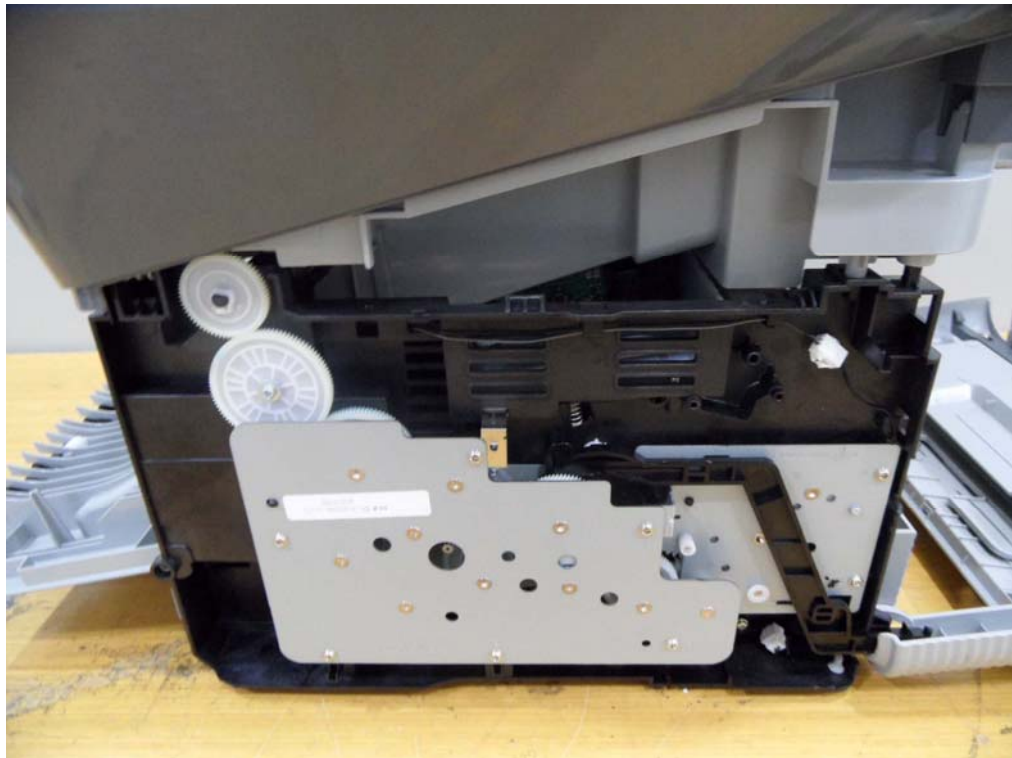
Right View



Front inside View



Left inside View



Right inside View



Label