



# TEST REPORT

|                                                                                                                                                                                                                                    |                                                        |                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Eurofins KCTL Co.,Ltd.</b><br>65, Sinwon-ro, Yeongtong-gu,<br>Suwon-si, Gyeonggi-do, 16677, Korea<br>TEL: 82-70-5008-1021 FAX: 82-505-299-8311<br><a href="http://www.kctl.co.kr">www.kctl.co.kr</a>                            | Report No.:<br><b>KR23-SRF0247</b><br>Page (1) of (16) |    <b>KCTL</b> |
| <b>1. Client</b>                                                                                                                                                                                                                   |                                                        |                                                                                                   |
| ◦ Name : Samsung Electronics Co., Ltd.<br>◦ Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,<br>Rep. of Korea<br>◦ Date of Receipt : 2023-09-05                                                              |                                                        |                                                                                                   |
| <b>2. Use of Report</b> : Certification                                                                                                                                                                                            |                                                        |                                                                                                   |
| <b>3. Name of Product / Model</b> : Tablet PC / SM-X300                                                                                                                                                                            |                                                        |                                                                                                   |
| <b>4. Manufacturer / Country of Origin</b> : Samsung Electronics Co., Ltd. / Vietnam                                                                                                                                               |                                                        |                                                                                                   |
| <b>5. FCC ID</b> : A3LSMX300                                                                                                                                                                                                       |                                                        |                                                                                                   |
| <b>6. Date of Test</b> : 2023-10-23 to 2023-11-08                                                                                                                                                                                  |                                                        |                                                                                                   |
| <b>7. Location of Test</b> : <input checked="" type="checkbox"/> Permanent Testing Lab <input type="checkbox"/> On Site Testing<br>(Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)                     |                                                        |                                                                                                   |
| <b>8. Test method used</b> : FCC Part 15 Subpart C, 15.209                                                                                                                                                                         |                                                        |                                                                                                   |
| <b>9. Test Result</b> : Refer to the test result in the test report                                                                                                                                                                |                                                        |                                                                                                   |
| Affirmation                                                                                                                                                                                                                        | Tested by<br>Name : Sunghyun Yoon (Signature)          | Technical Manager<br>Name : Seungyong Kim (Signature)                                             |
|                                                                                                                                                                                                                                    |                                                        |                                                                                                   |
| <div style="text-align: right;">2023-11-14</div>                                                                                                                                                                                   |                                                        |                                                                                                   |
| <div style="text-align: center;"><b>Eurofins KCTL Co.,Ltd.</b></div>                                                                                                                                                               |                                                        |                                                                                                   |
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|                                                                                                                                                                                                         |                                                        |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------|
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------|

## REPORT REVISION HISTORY

| Date       | Revision          | Page No |
|------------|-------------------|---------|
| 2023-11-14 | Originally issued | -       |
|            |                   |         |
|            |                   |         |
|            |                   |         |
|            |                   |         |

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## General remarks for test reports

### Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

#### Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

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## 1. General information

Client : Samsung Electronics Co., Ltd.  
 Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea  
 Manufacturer : Samsung Electronics Co., Ltd.  
 Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea  
 Factory : Samsung Electronics Vietnam Thai Nguyen Co., Ltd  
 Address : Yen Binh Industrial Park, Dong Tien Ward, Pho Yen Town, Thai Nguyen Province, Vietnam  
 Laboratory : Eurofins KCTL Co.,Ltd.  
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea  
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132  
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056  
 CAB Identifier: KR0040  
 ISED Number: 8035A  
 KOLAS No.: KT231

## 2. Device information

Equipment under test : Tablet PC  
 Model : SM-X300  
 Modulation technique : FSK  
 Power source : DC 3.85 V  
 Antenna specification : Coil Loop Antenna  
 Frequency range : 531.25 ~ 593.75 kHz (Digitizer)  
 Software version : X300.001  
 Hardware version : REV1.0  
 Test device serial No. : Radiated : R32W9001L0M  
 Operation temperature : 0 °C ~ 35 °C

## 2.1. Companion device information

| Equipment  | Manufacturer                  | Model    | Serial No. | Power Source | FCC ID     |
|------------|-------------------------------|----------|------------|--------------|------------|
| Stylus Pen | Samsung Electronics Co., Ltd. | EJ-PT870 | N/A        | DC 2.75V     | A3LEJPT870 |

## 2.2. Frequency/channel operations

This device contains the following capabilities:

WLAN (11a/b/g/n/ac/ax), Bluetooth (BDR/EDR/BLE), NFC, Digitizer

| Frequency (kHz) |
|-----------------|
| 531.25 ~ 593.75 |

Table 2.2.1. Digitizer

## 3. Antenna requirement

### Requirement of FCC part section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

- The transmitter has permanently attached Coil Loop Antenna (Internal antenna).
- The E.U.T Complies with the requirement of §15.203.

#### 4. Summary of tests

| FCC Part section(s) | Parameter                                           | Test mode | Test results |
|---------------------|-----------------------------------------------------|-----------|--------------|
| 15.209(a)           | Field Strength of Fundamental and Spurious Emission | Radiated  | Pass         |
| 2.1049              | 20dB Bandwidth & 99% Bandwidth                      | Conducted | Pass         |
| 15.207(a)           | AC Conducted Emission                               |           | Pass         |

##### Notes:

- The test results shown in the following sections represent the worst-case emissions.
- According to exploratory test no any obvious emission were detected from 9 kHz to 30 MHz. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
- The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **X** orientation was worst-case orientation. Therefore, radiated testing was performed with the EUT in **X** orientation.
- The test procedure(s) in this report were performed in accordance as following.
  - ANSI C63.10-2013

#### 4.1. Worst-Case configuration and mode

| Mode            | Test Case | EUT State           | Description                 |
|-----------------|-----------|---------------------|-----------------------------|
| S-Pen Digitizer | 1         | Stand-alone         | Button (531.25 kHz)         |
|                 |           | Stand-alone with TA |                             |
|                 | 2         | <b>Stand-alone</b>  | <b>Writing (562.50 kHz)</b> |
|                 |           | Stand-alone with TA |                             |
|                 | 3         | Stand-alone         | Eraser (593.75 kHz)         |
|                 |           | Stand-alone with TA |                             |

##### Notes:

- All modes of operation were investigated and test was performed at the worst margin among the fundamental output levels.
- For Digitizer mode, test results of case 2 is worst case, so this test report described test case 2.

## 5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of  $k=2$  to indicated a 95 % level of confidence. The measurement data shown herein meets or exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

| Parameter                   | Expanded uncertainty ( $\pm$ ) |        |
|-----------------------------|--------------------------------|--------|
| Radiated spurious emissions | Below 30 MHz:                  | 2.3 dB |
| Conducted emissions         | 9 kHz ~ 150 kHz                | 2.7 dB |
|                             | 150 kHz ~ 30 MHz               | 2.7 dB |

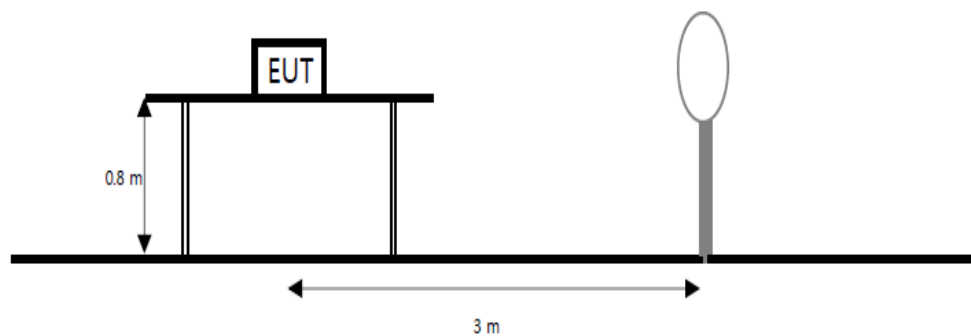


## 6. Test results

### 6.1. Field Strength of Fundamental and Spurious Emission

#### Test setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions



#### Limit

According to section 15.209(a). Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field strength ( $\mu\text{V/m}$ ) | Measurement distance (m) |
|-----------------|------------------------------------|--------------------------|
| 0.009 - 0.490   | $2\,400/F(\text{kHz})$             | 300                      |
| 0.490 - 1.705   | $24\,000/F(\text{kHz})$            | 30                       |
| 1.705 - 30      | 30                                 | 30                       |
| 30 - 88         | 100**                              | 3                        |
| 88 - 216        | 150**                              | 3                        |
| 216 - 960       | 200**                              | 3                        |
| Above 960       | 500                                | 3                        |

\*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., Section 15.231 and 15.241.

## Test procedure

ANSI C63.10-2013

## Test settings

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in table
3. VBW  $\geq 3 \times$  RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Table. RBW as a function of frequency**

| Frequency          | RBW              |
|--------------------|------------------|
| 9 kHz to 150 kHz   | 200 Hz to 300 Hz |
| 0.15 MHz to 30 MHz | 9 kHz to 10 kHz  |

## Notes:

1.  $f < 30$  MHz, extrapolation factor of 40 dB/decade of distance.  $F_d = 40 \log(D_m/D_s)$

Where:

$F_d$  = Distance factor in dB

$D_m$  = Measurement distance in meters

$D_s$  = Specification distance in meters

2. Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in § 15.31(f)(2). Extrapolation Factor =  $40 \log_{10}(30/3) = 40$  dB.
3. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or  $F_d$ (dB)
4. Result = Reading + Cable loss + Amp gain + Ant. factor - Distance factor
5. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.
6. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector.
7. Below 30 MHz frequency range, all orientations about parallel, perpendicular, and ground-parallel were investigated then reported and the worse orientations of Face-on and Face-off were set for final test.
8. Face-on = Parallel, Face-off = Perpendicular
9. Limit (dB( $\mu$ V/m)) =
 

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| For 0.009 MHz - 0.490 MHz, | $20 \cdot \log(2400/F(\text{kHz}))$ dB( $\mu$ V/m)  |
| For 0.490 MHz - 1.705 MHz, | $20 \cdot \log(24000/F(\text{kHz}))$ dB( $\mu$ V/m) |
| For 1.705 MHz - 30 MHz,    | $20 \cdot \log(30) = 29.54$ dB( $\mu$ V/m)          |

## Test results

### Field strength of fundamental

[Face-on]

| Frequency | Reading         | Detector | Ant. Factor | Amp. + Cable | Distance factor | Result            | Limit             | Margin |
|-----------|-----------------|----------|-------------|--------------|-----------------|-------------------|-------------------|--------|
| (MHz)     | (dB( $\mu V$ )) | Mode     | (dB)        | (dB)         | (dB)            | (dB( $\mu V/m$ )) | (dB( $\mu V/m$ )) | (dB)   |
| 0.562     | 62.70           | QP       | 19.91       | -32.06       | 40.00           | 10.55             | 32.60             | 22.05  |

[Face-off]

| Frequency | Reading         | Detector | Ant. Factor | Amp. + Cable | Distance factor | Result            | Limit             | Margin |
|-----------|-----------------|----------|-------------|--------------|-----------------|-------------------|-------------------|--------|
| (MHz)     | (dB( $\mu V$ )) | Mode     | (dB)        | (dB)         | (dB)            | (dB( $\mu V/m$ )) | (dB( $\mu V/m$ )) | (dB)   |
| 0.562     | 58.20           | QP       | 19.91       | -32.06       | 40.00           | 6.05              | 32.60             | 26.55  |

#### Note.

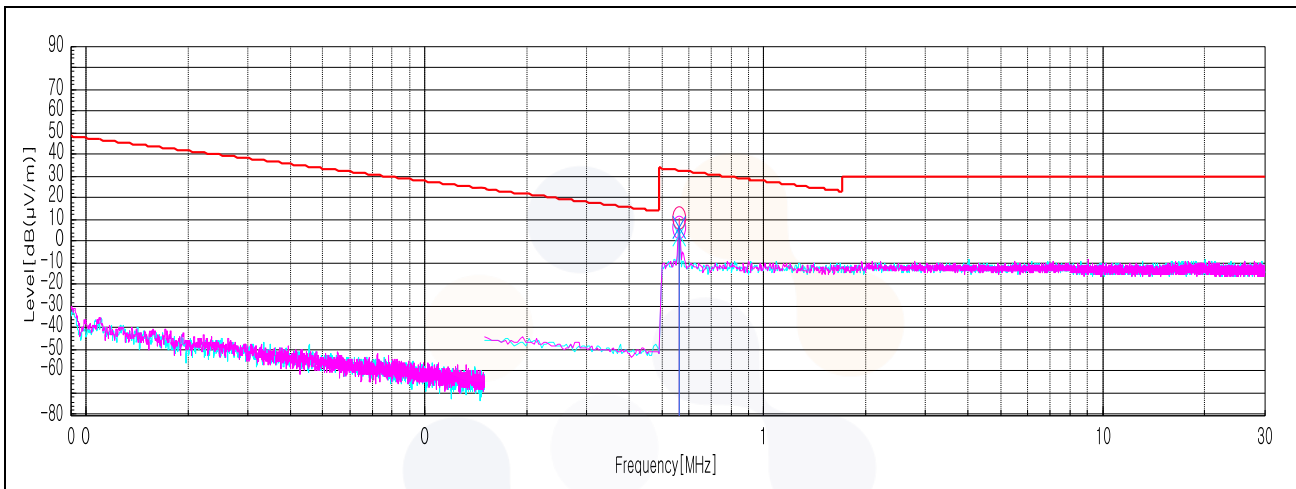
1. Worst case mode: Digitizer mode (Test case 2)
2. Distance factor:  $40 \times \log(3 \text{ m}/30 \text{ m}) = -40 \text{ dB}$

## Field strength of spurious emissions below 30 MHz

| Frequency                                                      | Reading  | Detector | Ant. Factor | Amp. + Cable | Distance factor | Result     | Limit      | Margin |
|----------------------------------------------------------------|----------|----------|-------------|--------------|-----------------|------------|------------|--------|
| (MHz)                                                          | (dB(μV)) | Mode     | (dB)        | (dB)         | (dB)            | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| No spurious emissions were detected within 20 dB of the limit. |          |          |             |              |                 |            |            |        |

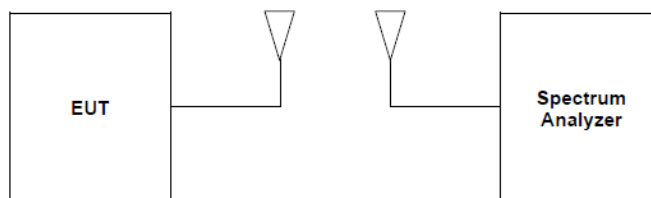
### Note.

- Worst case mode: Digitizer mode (Test case 2)
- Distance factor
  - 0.009 ~ 0.490 MHz:  $40 \times \log(3 \text{ m}/300 \text{ m}) = -80 \text{ dB}$
  - 0.490 ~ 30 MHz:  $40 \times \log(3 \text{ m}/30 \text{ m}) = -40 \text{ dB}$



## 6.2. 20dB Bandwidth & 99% Bandwidth

### Test setup



### Limit

For reporting purpose only

### Test settings

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

A peak, or peak hold, may be used in place of the sampling detector as this may produce a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold may be necessary to determine the occupied bandwidth if the device is not transmitting continuously.

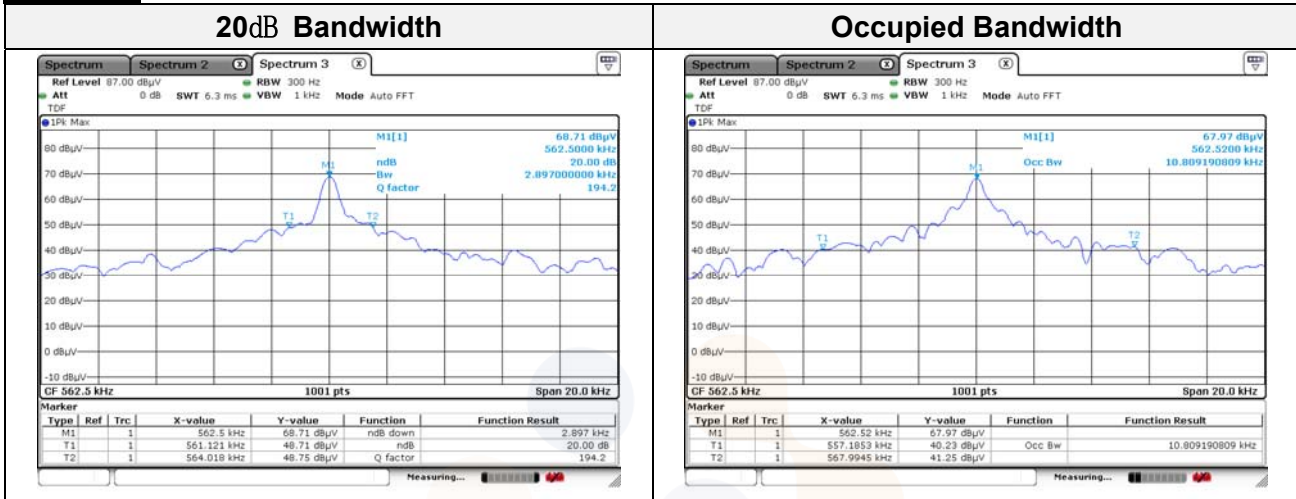
The trace data points are recovered and are directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded.

The difference between the two recorded frequencies is the 99% occupied bandwidth.

### Test results

| Mode                    | Frequency (kHz) | 20dB Bandwidth (kHz) | Occupied Bandwidth (kHz) | Limit                  |
|-------------------------|-----------------|----------------------|--------------------------|------------------------|
| S-pen Digitizer Writing | 562.50          | 2.90                 | 10.81                    | Reporting purpose only |

### Test Plots

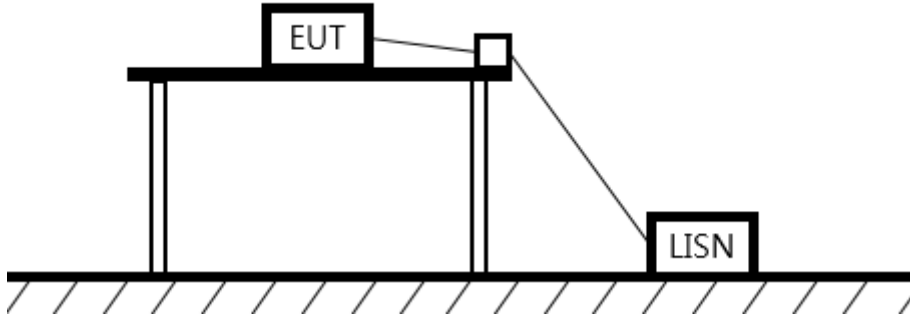


### Note:

Because the measured signal is CW/CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW

### 6.3. AC Conducted emission

#### Test setup



#### Limit

According to 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

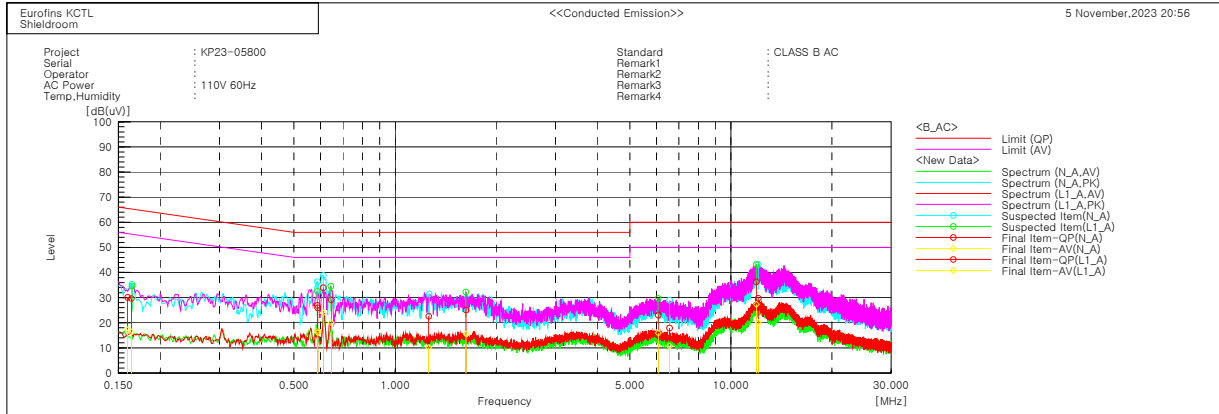
| Frequency of Emission (MHz) | Conducted limit (dB $\mu$ V/m) |          |
|-----------------------------|--------------------------------|----------|
|                             | Quasi-peak                     | Average  |
| 0.15 – 0.50                 | 66 - 56*                       | 56 - 46* |
| 0.50 – 5.00                 | 56                             | 46       |
| 5.00 – 30.0                 | 60                             | 50       |

#### Measurement procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50 $\Omega$ /50 $\mu$ H LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 kHz or to quasi-peak and average within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

## Test results

### Worst case : Test case 2 (Digitizer Writing)



#### Final Result

##### --- N\_A Phase ---

| No. | Frequency [MHz] | Reading QP [dB(uV)] | Reading CAV [dB(uV)] | c.f [dB] | Result QP [dB(uV)] | Result CAV [dB(uV)] | Limit QP [dB(uV)] | Limit AV [dB(uV)] | Margin QP [dB] | Margin CAV [dB] |
|-----|-----------------|---------------------|----------------------|----------|--------------------|---------------------|-------------------|-------------------|----------------|-----------------|
| 1   | 0.16395         | 19.6                | 6.2                  | 10.1     | 29.7               | 16.3                | 65.3              | 55.3              | 35.6           | 39.0            |
| 2   | 0.587           | 17.0                | 6.9                  | 9.9      | 26.9               | 16.8                | 56.0              | 46.0              | 29.1           | 29.2            |
| 3   | 0.61086         | 24.0                | 14.0                 | 9.9      | 33.9               | 23.9                | 56.0              | 46.0              | 22.1           | 22.1            |
| 4   | 1.25976         | 12.8                | 0.3                  | 9.8      | 22.6               | 10.1                | 56.0              | 46.0              | 33.4           | 35.9            |
| 5   | 6.57224         | 7.9                 | 0.7                  | 10.0     | 17.9               | 10.7                | 60.0              | 50.0              | 42.1           | 39.3            |
| 6   | 12.06039        | 19.3                | 9.6                  | 10.5     | 29.8               | 20.1                | 60.0              | 50.0              | 30.2           | 29.9            |

##### --- L1\_A Phase ---

| No. | Frequency [MHz] | Reading QP [dB(uV)] | Reading CAV [dB(uV)] | c.f [dB] | Result QP [dB(uV)] | Result CAV [dB(uV)] | Limit QP [dB(uV)] | Limit AV [dB(uV)] | Margin QP [dB] | Margin CAV [dB] |
|-----|-----------------|---------------------|----------------------|----------|--------------------|---------------------|-------------------|-------------------|----------------|-----------------|
| 1   | 0.1599          | 20.1                | 7.2                  | 10.0     | 30.1               | 17.2                | 65.5              | 55.5              | 35.4           | 38.3            |
| 2   | 0.58809         | 16.0                | 6.2                  | 9.9      | 25.9               | 16.1                | 56.0              | 46.0              | 30.1           | 29.9            |
| 3   | 0.64507         | 19.2                | 10.1                 | 9.9      | 29.1               | 20.0                | 56.0              | 46.0              | 26.9           | 26.0            |
| 4   | 1.62642         | 15.3                | 5.7                  | 9.8      | 25.1               | 15.5                | 56.0              | 46.0              | 30.9           | 30.5            |
| 5   | 6.07483         | 13.1                | 6.0                  | 9.9      | 23.0               | 15.9                | 60.0              | 50.0              | 37.0           | 34.1            |
| 6   | 11.90741        | 25.8                | 16.8                 | 10.5     | 36.3               | 27.3                | 60.0              | 50.0              | 23.7           | 22.7            |

## 7. Measurement equipment

| Equipment Name          | Manufacturer      | Model No.     | Serial No.      | Next Cal. Date |
|-------------------------|-------------------|---------------|-----------------|----------------|
| Spectrum Analyzer       | R&S               | FSVA40        | 101574          | 24.03.28       |
| DC Power Supply         | AGILENT           | E3632A        | MY51220373      | 24.07.03       |
| Signal Generator        | R&S               | SMB100A       | 176206          | 24.01.19       |
| Vector Signal Generator | R&S               | SMBV100A      | 257566          | 24.07.04       |
| ATTENUATOR              | KEYSIGHT          | 8491B-6dB     | MY39271082      | 24.08.24       |
| EMI TEST RECEIVER       | R&S               | ESCI7         | 100732          | 24.03.03       |
| Amplifier               | SONOMA INSTRUMENT | 310N          | 284608          | 24.08.18       |
| ISOLATION TRANSFORMER   | ONETECH CO., LTD  | OT-IT500VA    | OTR1-16026      | 24.03.28       |
| Loop Antenna            | R&S               | HFH2-Z2       | 100355          | 24.08.10       |
| TWO-LINE V - NETWORK    | R&S               | ENV216        | 101358          | 24.09.27       |
| EMI TEST RECEIVER       | R&S               | ESCI3         | 100001          | 24.08.18       |
| Antenna Mast            | Innco Systems     | MA4000-EP     | 303             | -              |
| Turn Table              | CO3000            | Innco Systems | 1175/45850319/P | -              |

**End of test report**