

# TEST REPORT

**This laboratory is accredited by National Radio Research  
Agency Laboratory and National Voluntary Laboratory  
Accreditation Program.**

The tests reported herein have been performed in accordance with  
its terms of accreditation.

**Test Report No.** : LR500112008G  
**Issue Date** : August 17, 2020  
**Applied Standard** : FCC Part 15, Subpart B  
**Trade Name** : Smartsound Corporation  
**FCC ID** : 2ADIYSM-300  
**Equipment Name** : SKEEPER  
**Model Name** : SM-300  
**Serial Number** : Identification

**This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.**



## Revision history

| Revision | Date of issue | Test report No. | Description |
|----------|---------------|-----------------|-------------|
| 0        | 17.08.2020    | LR500112008G    | Initial     |

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## LTA Certification

### Applicant / Manufacturer

Company name : Smartsound Corporation  
Address : 4F, 171, Yangjaecheon-ro, Gangnam-gu, Seoul, Korea  
Telephone / Facsimile : +82-2-575-2201

### Factory

Company name : Smartsound Corporation  
Address : 4F, 171, Yangjaecheon-ro, Gangnam-gu, Seoul, Korea

### Equipment Under Test (EUT)

Equipment Name : SKEEPER  
Model name : SM-300  
Serial number : Identification  
Intended environment : Industrial area  
Date of receipt : August 17, 2020  
EUT condition : Pre-production, not damaged  
Test Mode : Charging + Operating mode, Operating mode  
Interface ports : AUDIO OUT, DC IN  
Power rating : DC 3.7 V, DC 5 V  
Test Voltage : DC 3.7, AC 120 V, 60 Hz

### Model Description

- NONE

### Model Specification

- NONE

\*\*\* To be continued next page \*\*\*

## LTA Certification –cont.-

### Test Performed

Test started & completed : August 13 - 14, 2020  
Location : LTA Co., Ltd.

### Test Specification

Purpose of the test : Compliance test to the following standard  
Applied standard : FCC Part 15, Subpart B  
Classification : Class B  
Deviations from Standard Test Method : N/A

### Test Results

| Measurement         | Results* | Test method      |
|---------------------|----------|------------------|
| Conducted Emissions | Complies | ANSI C 63.4-2014 |
| Radiated Emissions  | Complies | ANSI C 63.4-2014 |

\* : The compliance statement is based on nominal value only.

### Modification performed by the lab.:

- N.A  
- We were performed the test according to LTA procedure LTA-QI-04.

### Laboratory's Certificate

Report number : LR500112008G  
Issue date : August 17, 2020

This test report is issued under the authority of:

The test was supervised by:



Young Kyu Shin, Technical Manager



Yu Hyeon Nam, Test Engineer

The results in this report apply only to the sample(s) tested.

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## General information's

### Purpose

This document is based on the Electromagnetic Interference (EMI) tests performed on the “**SM-300**”. The measurements were performed according to the measurement procedure described in ANSI C 63.4-2014. The tests were carried out in order to confirm whether the electromagnetic emissions from the EUT (Equipment Under Test), are within the Class B limits defined in FCC Part 15, Subpart B- “Section 15.107- Conducted limits” and “Section 15.109-Radiated emission limits”.

### Test Performed

Company name : **LTA Co., Ltd.**  
Address : 34, Songju-ro 236Beon-gil, Yangji-myeon, Cheoin-gu Yongin-si, Gyeonggi-do 449-822, Korea  
Telephone : +82-31-323-6008  
Facsimile : +82-31-323-6010

### Measurement uncertainty

|                     |                     |   |
|---------------------|---------------------|---|
| Conducted Emissions | (0.15 to 30 MHz) :  | $\pm 2.80$ [dB] (k=2)                               |
| Radiated Emissions  | (30 to 1,000 MHz) : | H : $\pm 4.84$ [dB] (k=2) V : $\pm 4.92$ [dB] (k=2) |
|                     | (1 GHz to 6 GHz) :  | H : $\pm 5.97$ [dB] (k=2) V : $\pm 5.96$ [dB] (k=2) |
|                     | (6 GHz to 18 GHz) : | H : $\pm 6.20$ [dB] (k=2) V : $\pm 6.20$ [dB] (k=2) |

The coverage factor k=2 yields approx. a 95% level of confidence for near-normal distribution typical of most measurement results.

### Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

| Agency | Country | Accreditation No. | Validity   | Reference             |
|--------|---------|-------------------|------------|-----------------------|
| NVLAP  | U.S.A   | 200723-0          | 2020-09-30 | ECT accredited Lab.   |
|        | KOREA   |                   | -          |                       |
| RRA    | U.S.A   | KR0049            | 2021-04-11 |                       |
|        | CANADA  |                   | 2021-06-16 | RRA accredited Lab.   |
|        | VIETNAM |                   | 2021-04-12 |                       |
| VCCI   | JAPAN   | C-14948           | 2023-09-10 |                       |
|        |         | T-12416           | 2023-09-10 |                       |
|        |         | R-14483           | 2023-10-15 | VCCI registration     |
|        |         | G-10847           | 2021-12-13 |                       |
| KOLAS  | KOREA   | KT551             | 2021-08-20 | KOLAS accredited Lab. |

## 1- Brief Information

### 1-1 Test Summary

| Parameter  | Applied Standard | Status<br>(note 1) |
|--|------------------|--------------------|
| <b>I. Emission</b>   |                  |                    |
| Conducted Emissions  | FCC Part 15.107  | C                  |
| Radiated Emissions   | FCC Part 15.109  | C                  |
| Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable                       |                  |                    |
| * The data in this test report are traceable to the national or international standards. |                  |                    |

#### Frequency range to be scanned:

0.15 MHz - 30 MHz as conducted measurement

30 MHz to 5<sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower as radiated measurement.

#### Bandwidth:

Measured by the CISPR quasi-peak function Bandwidth is 9 kHz in the frequency 0.15 MHz to 30 MHz and 120 kHz in the frequency 30 MHz to 1,000 MHz.

Measured by the Peak function Bandwidth is 1 MHz in the frequency 1 GHz to 40 GHz.

#### A sample calculation:

COR. F (correction factor)= Antenna factor + Cable loss- Amp.gain- Distance correction

Emission Level= meter reading + COR.F

### 1-2 Test mode of the EUT

The tests have been conducted with the following operational mode(s) of the EUT.

Charging + Operating mode, Operating mode

### 1-3 Modification

- NONE

#### 1-4 List of EUT and ACCESSORY

| EUT                                   |            |             |                                   |         |
|---------------------------------------|------------|-------------|-----------------------------------|---------|
| Equipment Name                        | Model Name | Serial No.  | Manufacturer                      | Remarks |
| SKEEPER                               | SM-300     | N/A         | Smartsound Corporation            | -       |
| ACCESSORY / Charging + Operating mode |            |             |                                   |         |
| Equipment Name                        | Model Name | Serial No.  | Manufacturer                      | Remarks |
| Adapter                               | MCS-H06KR  | RA680045174 | Weihai Sunjin Electronics Co.,Ltd | -       |
| Ear Phone                             | N/A        | N/A         | N/A                               | -       |
| Mobile Phone                          | SM-G930    | N/A         | SAMSUNG                           | -       |
| ACCESSORY / Operating mode            |            |             |                                   |         |
| Equipment Name                        | Model Name | Serial No.  | Manufacturer                      | Remarks |
| Ear Phone                             | N/A        | N/A         | N/A                               | -       |
| Mobile Phone                          | SM-G930    | N/A         | SAMSUNG                           | -       |

#### 1-5 Cable List

| Cable List / Charging + Operating mode |           |                 |               |               |           |           |
|--|-----------|-----------------|---------------|---------------|-----------|-----------|
| From                                   |           | To              |               | Length<br>(m) | Shielding |           |
| Type                                   | I/O Port  | Type            | I/O Port      |               | Cable     | backshell |
| EUT                                    | DC IN     | Adapter         | DC OUT        | 1.1           | NO        | Plastic   |
|  | AUDIO OUT | Ear Phone       | AUX           | 1.0           | NO        | Plastic   |
| Mobile Phone                           | -         | -               | -             | -             | -         | -         |
| Adapter                                | AC IN     | AC Power Source | 2 Pin AC Line | -             | -         | -         |
| Cable List / Operating mode            |           |                 |               |               |           |           |
| From                                   |           | To              |               | Length<br>(m) | Shielding |           |
| Type                                   | I/O Port  | Type            | I/O Port      |               | Cable     | backshell |
| EUT                                    | DC IN     | Battery         | DC OUT        | -             | -         | -         |
|  | AUDIO OUT | Ear Phone       | AUX           | 1.0           | NO        | Plastic   |
| Mobile Phone                           | -         | -               | -             | -             | -         | -         |

## 2- Test Site Description

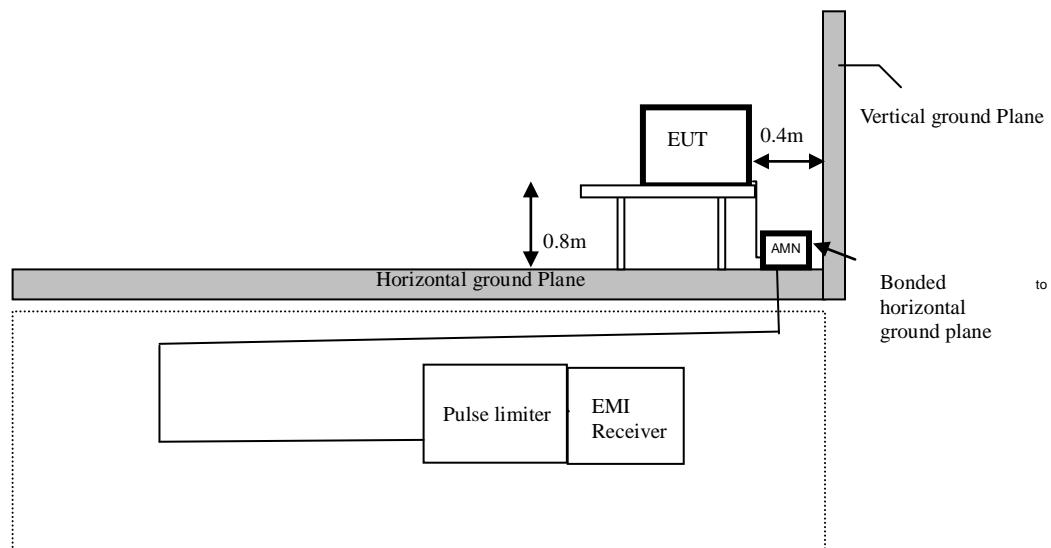
### 1-Facility

All the testing facilities are periodically serviced as a daily check for equipment and cables systems, an every 6 months facility check for the facilities and a monthly check and annual calibration for testing equipment according to ISO/IEC 17025. All the testing facilities are used as the same specifications shown below. There are descriptions both for radiated disturbance measurement and conducted disturbance measurement conformed by ANSI C 63.4-2014.

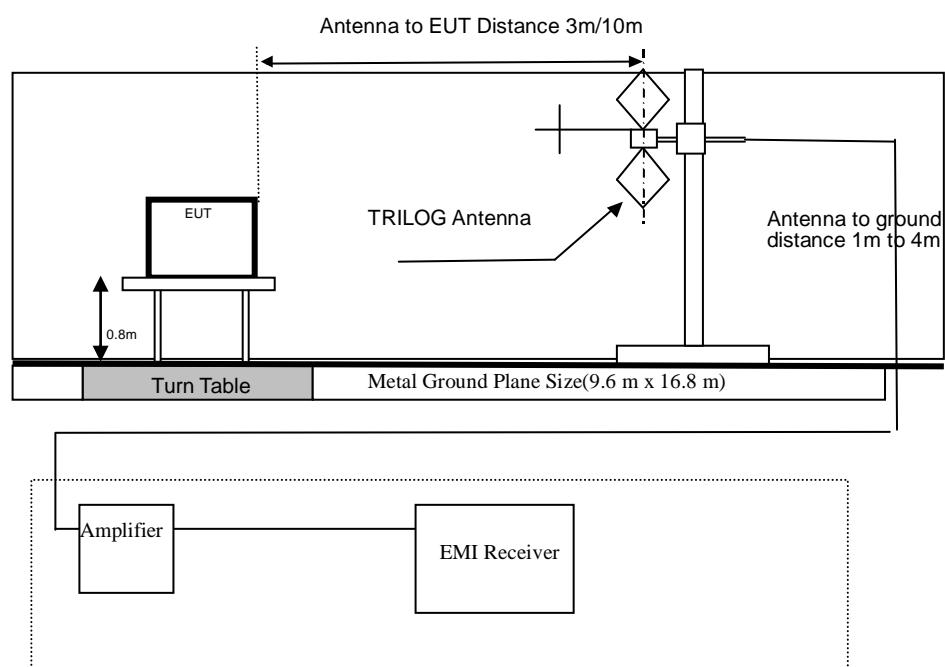
The NSA measurement of the 10 m chamber was performed on January 18, 2020 according to ANSI C 63.4:2014

The SVSWR measurement of the 10 m chamber was performed on January 18, 2020 according to ANSI C 63.4:2014

### 2-1 Conducted Emissions



### 2-2 Radiated Emissions – Below 1 GHz



### 3- Test Procedure

#### 3-1 Conducted Emissions

- The measurement is carried out on an open site with horizontal and metallic ground plane.
- An AMN(Artificial Mains Network) with a nominal impedance ( $50 \Omega/50 \mu\text{H}$ ) as defined in ANSI C 63.4-2014., shall be utilized.
- The AMN is grounded on a horizontal metal ground plane.
- Measurement is carried out using an EMI receiver with quasi-peak detectors and average detector.  
(Refer to the List of test equipment used for the test.)
- The shortest distance between the EUT and the AMN is 0.8 m.
- The EUT is placed on the non-conducting table with 0.8 m height.
- Refer to "Brief Information"(page 7-9) about details of the EUT and configuration of the cables.
- Measurement is carried out as manual operation.
  - searching the maximum frequency point of the disturbance wave in each frequency range.
  - reading the disturbance level of quasi-peak, average and Line (L) and Neutral (N) in 9 kHz bandwidth by the EMI receiver.
  - calculating the measurement result with the following formula or equation.  
(Result = Reading + Cor.F.(LISN Factor + Cable Loss + Pulse Limiter)  
(ex) =  $13.23 \text{ dB}\mu\text{V} + (9.63 \text{ dB} + 0.01 \text{ dB} + 9.86 \text{ dB})$   
=  $32.73 \text{ dB}\mu\text{V}$

### 3-2 Radiated Emissions – Below 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m or 10 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m and 4 m in height above the ground.
- The EUT is placed on the non-conducting table with 0.8 m height on the turntable.
- Measurements are carried out using an EMI receiver with quasi-peak detectors (120 kHz bandwidth).
- Refer to the list of test equipment used for the test.
- The TRILOG antenna are used as wideband antenna.
- The TRILOG antenna is used in the frequency range of 30 MHz to 1 000 MHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 7-9) about details of the EUT and configuration of the cables.
- Measurement is carried out by a LTA operator as manual operation.
  - searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
  - setting the height of the antenna with the maximum level of the disturbance wave from 1 m to 4 m.
  - reading the disturbance level by the EMI receiver with quasi-peak detectors (120 kHz bandwidth) according to ANSI C 63.4-2014.
  - measuring to vertical and horizontal polarization.
  - calculating the measurement result with the following formula or equation:  
(Result = Reading + Cor.F (antenna factor + cable loss – PreAmp Gain)  
(ex)    = 50.6 dB $\mu$ V/m + (11.08 dB(1/m) + 1.31 dB - 27.32 dB)  
          = 35.67 dB $\mu$ V/m

## 4- List of Equipment Used For the Tests

### Conducted Emissions

|                                     | Item              | Model Name           | Manufacturer    | Serial No.  | Next Cal.  | Interval |
|-------------------------------------|-------------------|----------------------|-----------------|-------------|------------|----------|
| <input checked="" type="checkbox"/> | EMI TEST Receiver | ESR                  | Rohde & Schwarz | 101499      | 2021.07.02 | 1 year   |
| <input checked="" type="checkbox"/> | Pulse Limiter     | ESH3-Z2              | Rohde & Schwarz | 100710      | 2021.03.16 | 1 year   |
| <input type="checkbox"/>            | LISN              | ESH3-Z6              | Rohde & Schwarz | 100378      | 2020.09.05 | 1 year   |
| <input type="checkbox"/>            | LISN              | ESH3-Z6              | Rohde & Schwarz | 101468      | 2020.09.05 | 1 year   |
| <input checked="" type="checkbox"/> | LISN(main)        | ENV216               | Rohde & Schwarz | 101222      | 2020.09.06 | 1 year   |
| <input type="checkbox"/>            | LISN(sub)         | LT32C/10             | AFJ             | 32031518210 | 2020.09.05 | 1 year   |
| <input checked="" type="checkbox"/> | TEST PROGRAM      | e3_ce 20181212a (V9) | AUDIX           | -           | -          | -        |

### Radiated Emissions – Below 1 GHz

|                                     | Item              | Model Name        | Manufacturer    | Serial No. | Next Cal.          | Interval |
|-------------------------------------|-------------------|-------------------|-----------------|------------|--------------------|----------|
| <input checked="" type="checkbox"/> | EMI TEST Receiver | ESU               | Rohde & Schwarz | 100092     | 2020.09.05         | 1 year   |
| <input checked="" type="checkbox"/> | Amplifier (25 dB) | 8447D             | HP              | 2944A07684 | 2021.03.16         | 1 year   |
| <input type="checkbox"/>            | BILOG Antenna     | VULB 9168         | SCHWARZBECK     | 775        | 2021.03.26 (KOLAS) | 2 year   |
| <input checked="" type="checkbox"/> | BILOG Antenna     | VULB 9168         | SCHWARZBECK     | 775        | 2021.11.12 (RRA)   | 2 year   |
| <input checked="" type="checkbox"/> | TEST PROGRAM      | e3 20181212a (V9) | AUDIX           | -          | -                  | -        |

## 5- EMISSION

### 5-1 Conducted Emissions

MODE : Charging + Operating mode

(LINE)



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EUT /Model No. : SM-300

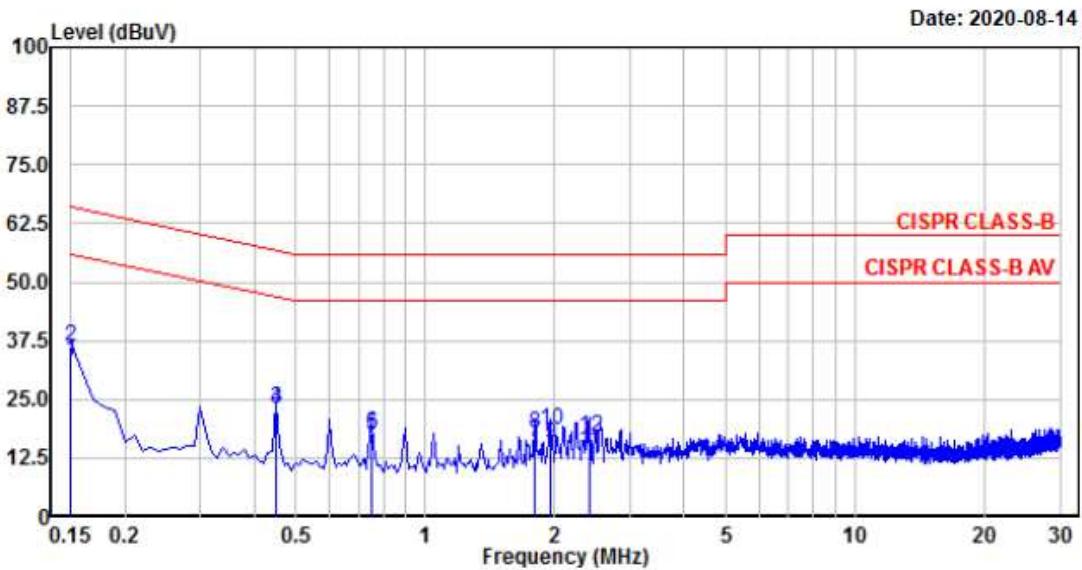
Phase : Line

Test Mode : Charging + Operating mode

Test Power : 120 V / 60 Hz

Temp./ Humi. : 23 'C / 51 % R.H.

Test Engineer : NAM Y H



| NO. | Freq<br>MHz | RD<br>QP<br>dB $\mu$ V | RD<br>AV<br>dB $\mu$ V | C.F<br>dB | Result<br>QP<br>dB $\mu$ V | Result<br>AV<br>dB $\mu$ V | Limit<br>QP<br>dB $\mu$ V | Limit<br>AV<br>dB $\mu$ V | Margin<br>QP<br>dB | Margin<br>AV<br>dB | Phase |
|-----|-------------|------------------------|------------------------|-----------|----------------------------|----------------------------|---------------------------|---------------------------|--------------------|--------------------|-------|
| 2.  | 0.150       | 16.74                  | 13.76                  | 19.57     | 36.31                      | 33.33                      | 66.00                     | 56.00                     | 29.69              | 22.67              | Line  |
| 4.  | 0.451       | 3.41                   | 3.25                   | 19.59     | 23.00                      | 22.84                      | 56.85                     | 46.85                     | 33.85              | 24.01              | Line  |
| 6.  | 0.750       | -2.05                  | -2.42                  | 19.62     | 17.57                      | 17.20                      | 56.00                     | 46.00                     | 38.43              | 28.80              | Line  |
| 8.  | 1.799       | -1.82                  | -3.89                  | 19.69     | 17.87                      | 15.80                      | 56.00                     | 46.00                     | 38.13              | 30.20              | Line  |
| 10. | 1.951       | -1.29                  | -4.40                  | 19.70     | 18.41                      | 15.30                      | 56.00                     | 46.00                     | 37.59              | 30.70              | Line  |
| 12. | 2.414       | -2.90                  | -5.61                  | 19.73     | 16.83                      | 14.12                      | 56.00                     | 46.00                     | 39.17              | 31.88              | Line  |

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

**MODE : Charging + Operating mode  
(NEUTRAL)**



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EUT /Model No. : SM-300

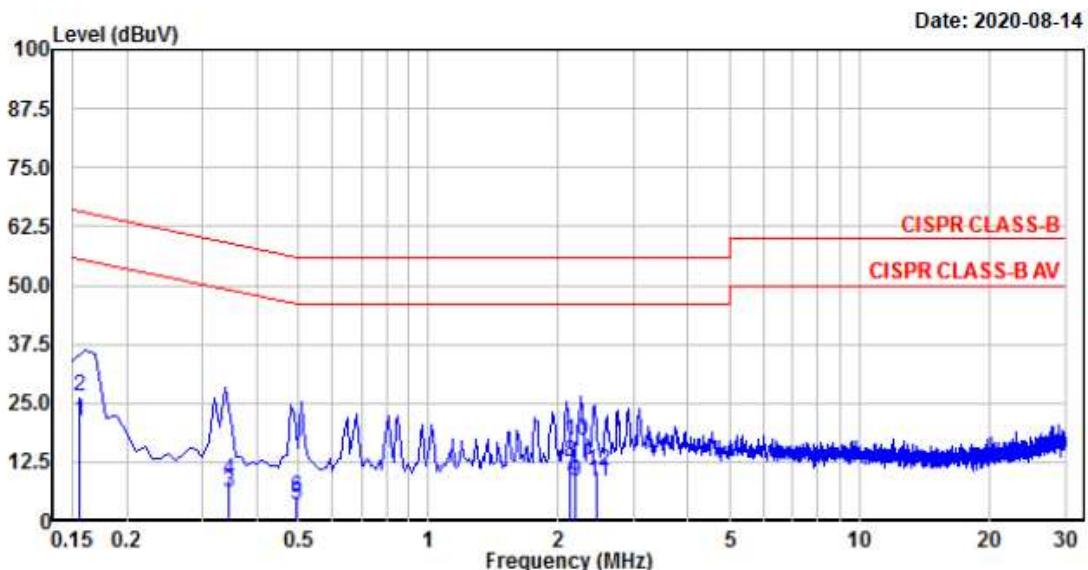
Phase : Neutral

Test Mode : Charging + Operating mode

Test Power : 120 V / 60 Hz

Temp./ Humi. : 23 °C / 51 % R.H.

Test Engineer : NAM Y H



| No. | Freq<br>MHz | RD<br>dB $\mu$ V |        | C.F<br>dB |       | Result<br>dB $\mu$ V | Result<br>dB $\mu$ V | Limit<br>dB $\mu$ V |       | Margin<br>dB |         | Phase |
|-----|-------------|------------------|--------|-----------|-------|----------------------|----------------------|---------------------|-------|--------------|---------|-------|
|     |             | QP               | AV     | QP        | AV    |                      |                      | QP                  | AV    | QP           | AV      |       |
| 2.  | 0.156       | 6.86             | 1.56   | 19.63     | 26.49 | 21.19                | 65.70                | 55.70               | 39.21 | 34.51        | neutral |       |
| 4.  | 0.346       | -11.07           | -13.79 | 19.65     | 8.58  | 5.86                 | 59.05                | 49.05               | 50.47 | 43.19        | neutral |       |
| 6.  | 0.496       | -14.66           | -16.23 | 19.66     | 5.00  | 3.43                 | 56.07                | 46.07               | 51.07 | 42.64        | neutral |       |
| 8.  | 2.133       | -7.50            | -10.20 | 19.77     | 12.27 | 9.57                 | 56.00                | 46.00               | 43.73 | 36.43        | neutral |       |
| 10. | 2.202       | -2.86            | -11.56 | 19.78     | 16.92 | 8.22                 | 56.00                | 46.00               | 39.08 | 37.78        | neutral |       |
| 12. | 2.462       | -9.22            | -11.70 | 19.81     | 10.59 | 8.11                 | 56.00                | 46.00               | 45.41 | 37.89        | neutral |       |

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

## 5-2 Radiated Emissions

MODE : Charging + Operating mode

(Below 1 GHz) / V



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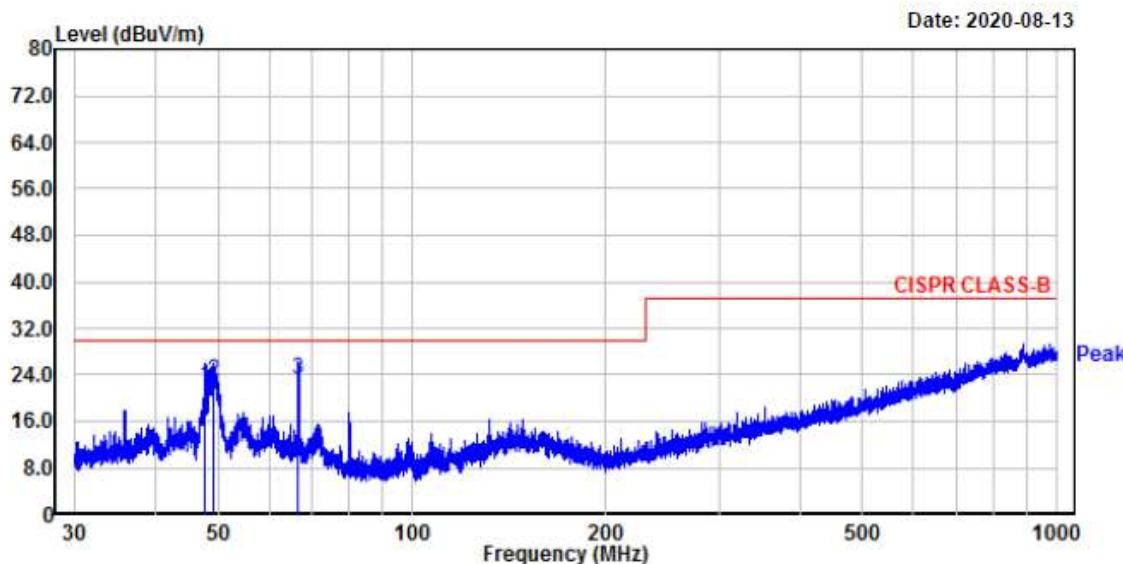
EUT/Model No. : SM-300

Temp/Humi: 24 'C / 42 % R.H.

Test Mode : Charging + Operating mode

Tested by: NAM Y H

Power : 120 V / 60 Hz

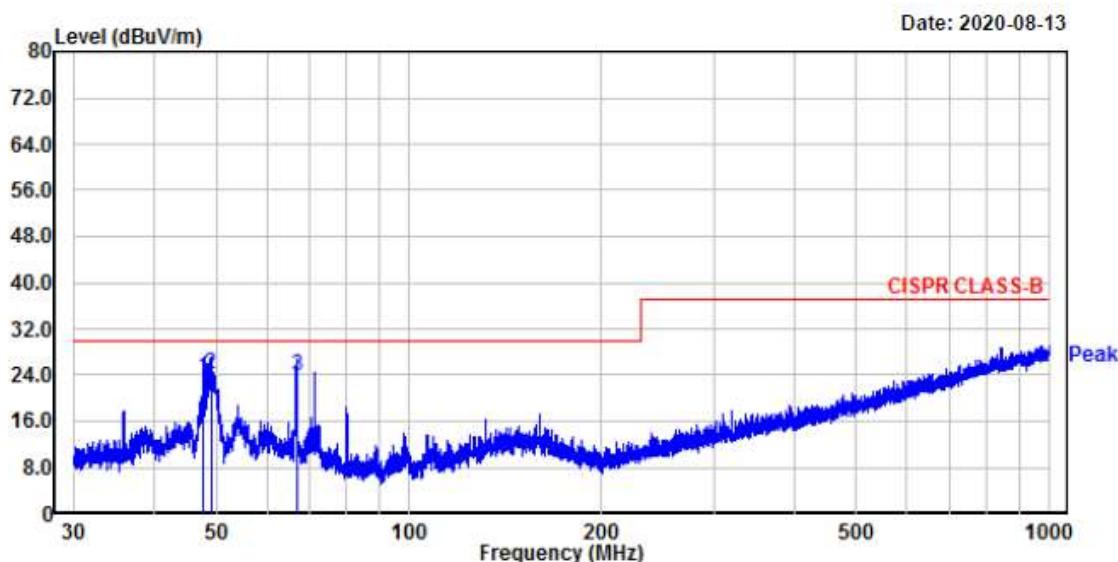


| No. | Freq  | Reading    | C.F    | Result<br>QP | Limit        | Margin | Height | Angle | Polarity |
|-----|-------|------------|--------|--------------|--------------|--------|--------|-------|----------|
|     | MHz   | dB $\mu$ V | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     | cm     | deg   |          |
| 1.  | 47.83 | 35.32      | -13.22 | 22.10        | 30.00        | 7.90   | 151    | 10    | vertical |
| 2.  | 49.27 | 36.15      | -13.19 | 22.96        | 30.00        | 7.04   | 126    | 145   | vertical |
| 3.  | 66.56 | 38.00      | -14.75 | 23.25        | 30.00        | 6.75   | 137    | 360   | vertical |

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

**MODE : Charging + Operating mode**
**(Below 1 GHz) / H**


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**EUT/Model No. : SM-300**
**Temp/Humi: 24 'C / 42 % R.H.**
**Test Mode : Charging + Operating mode**
**Tested by: NAM Y H**
**Power : 120 V / 60 Hz**


| No. | Freq  | Reading    | C.F    | Result<br>QP | Limit        | Margin | Height | Angle | Polarity   |
|-----|-------|------------|--------|--------------|--------------|--------|--------|-------|------------|
|     | MHz   | dB $\mu$ V | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     | cm     | deg   |            |
| 1.  | 47.83 | 36.69      | -13.22 | 23.47        | 30.00        | 6.53   | 281    | 156   | horizontal |
| 2.  | 49.06 | 37.37      | -13.20 | 24.17        | 30.00        | 5.83   | 381    | 211   | horizontal |
| 3.  | 66.76 | 38.51      | -14.79 | 23.72        | 30.00        | 6.28   | 374    | 42    | horizontal |

**Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain**

**MODE : Operating mode**

(Below 1 GHz) / V



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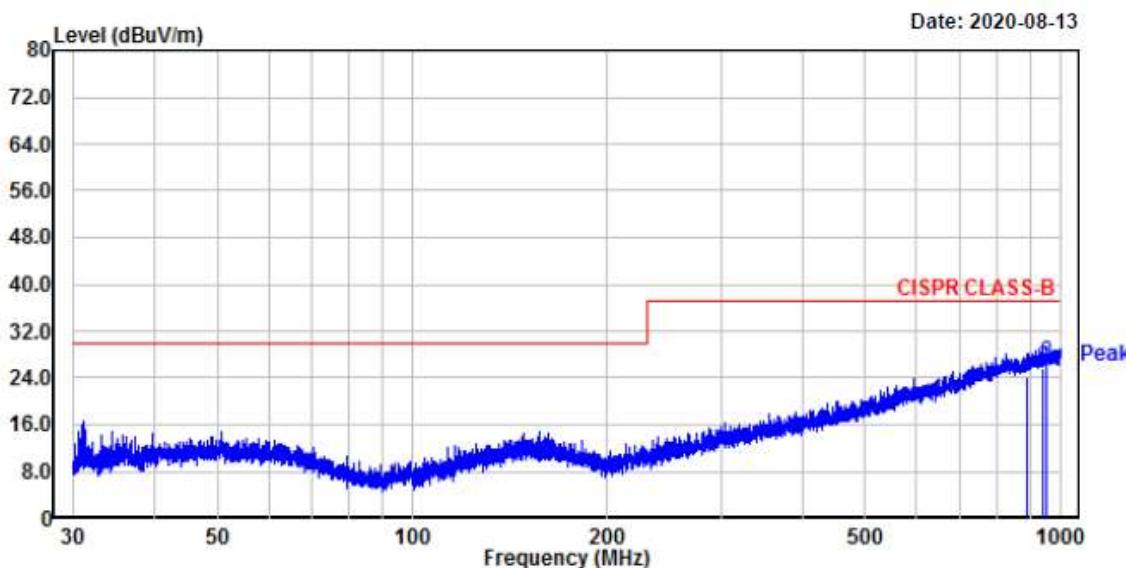
EUT/Model No. : SM-300

Temp/Humi: 24 'C / 42 % R.H.

Test Mode : Operating mode

Tested by: NAM Y H

Power : DC 3.7 V



| No. | Freq<br>MHz | Reading<br>dB $\mu$ V | C.F<br>dB | Result<br>QP<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Margin<br>dB | Height<br>cm | Angle<br>deg | Polarity |
|-----|-------------|-----------------------|-----------|------------------------------|-----------------------|--------------|--------------|--------------|----------|
| 1.  | 889.56      | 23.34                 | 0.83      | 24.17                        | 37.00                 | 12.83        | 127          | 158          | vertical |
| 2.  | 939.24      | 24.02                 | 1.49      | 25.51                        | 37.00                 | 11.49        | 217          | 63           | vertical |
| 3.  | 950.84      | 24.78                 | 1.64      | 26.42                        | 37.00                 | 10.58        | 212          | 315          | vertical |

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

MODE : Operating mode

(Below 1 GHz) / H



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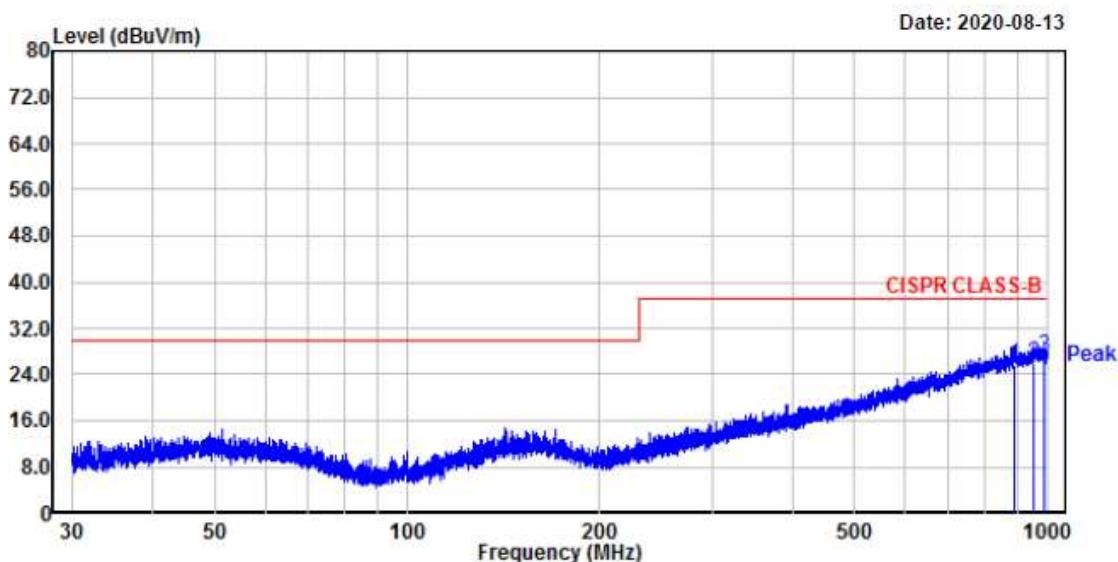
EUT/Model No.: SM-300

Temp/Humi: 24 'C / 42 % R.H.

Test Mode : Operating mode

Tested by: NAM Y H

Power : DC 3.7 V



| No. | Freq   | Reading    | C.F  | Result       | Limit        | Margin | Height | Angle | Polarity   |
|-----|--------|------------|------|--------------|--------------|--------|--------|-------|------------|
|     | MHz    | dB $\mu$ V | dB   | dB $\mu$ V/m | dB $\mu$ V/m | dB     | cm     | deg   |            |
| 1.  | 890.73 | 24.93      | 0.85 | 25.78        | 37.00        | 11.22  | 298    | 185   | horizontal |
| 2.  | 950.84 | 24.24      | 1.64 | 25.88        | 37.00        | 11.12  | 267    | 315   | horizontal |
| 3.  | 986.94 | 25.04      | 2.14 | 27.18        | 37.00        | 9.82   | 265    | 248   | horizontal |

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

## Conclusions

Product models "**SM-300**" meets all of the Class B requirements of the FCC Part 15, Subpart B. Limits of radio disturbance characteristics of ITE).

(Refer to Test Specification and Test Results in the "LTA certification", page 4 and 5)

- The highest internal source of an EUT is less than 108 MHz, the measurement shall be made up to 1 GHz.

(The highest internal source of an EUT : less than 108 MHz)