

EMC TEST REPORT

KOSTEC CO., Ltd.

28(175-20, Annyeong-dong) 406-gil sejaro,
Hwaseong-si, Gyeonggi-do, Korea
Tel:031-222-4251, Fax:031-222-4252

Report No. : KST-FCC-220012



KOSTEC Co., Ltd.
<http://www.kostec.org>

1. Applicant

- Name : TOKYO ELECTRON KOREA LIMITED
- Address : 51, Jangangongdan 6-gil, Jangan-myeon, Hwaseong-si, Gyeonggi-do, 18579 Korea

2. Test Item

- Product Name : Advanced Data Logger
- Model Name : DS0-SEDLAD00

3. Manufacturer

- Name : TOKYO ELECTRON KOREA LIMITED
- Address : 51, Jangangongdan 6-gil, Jangan-myeon, Hwaseong-si, Gyeonggi-do, 18579 Korea

4. Date of Test : Jun. 9, 2022

5. Test Method Used :

ANSI C63.4:2014
47 CFR Part 15 Subpart B Class A
Industry Canada ICES-003 Issue 7
CAN/CSA-CISPR 32:17

6. Test Result : Pass

7. Note: -

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test report is not related to KOLAS accreditation.

| | | |
|-------------|--|--|
| Affirmation | Tested by Name : Ho-Sik, Yeom (Signature) | Technical Manager Name : Seok-Jin, Jung (Signature) |
|-------------|--|--|

2022 . 06 . 15 .

KOSTEC Co., Ltd.

Revision History of Test Report

| Rev. | Revisions | Effect page | Reviewed | Date |
|------|---------------|-------------|----------------|---------------|
| - | Initial issue | All | Seok-Jin, Jung | Jun. 15, 2022 |

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1. General Information

1.1 Information of EUT

| | |
|-------------------------|--|
| Product Name | Advanced Data Logger |
| Model Name | DS0-SEDLAD00 |
| FCC ID | 2A2YU-DS0-SEDLAD00 |
| Serial No. | None |
| Type of Sample Tested | Pre-production |
| Supplied Power for Test | AC 120 V / 60 Hz |
| Port | DC In, RJ-45 x 2 (RS232, LAN), RS485 (6 Pin Connector) x 4, Micro SD Card Slot |
| Whether or not ground | With-ground |

This information was provided by the applicants

| | | |
|---------------------|--|-------------------------------------|
| Clock used | 32.768 kHz, 24 MHz, 25 MHz | |
| High Frequency Used | 800 MHz | |
| H/W Version | 2.0.0 | |
| S/W Version | 0.9.6 | |
| F/W Version | 1.0.0 | |
| Model differences | | |
| Model name | Difference | Tested (checked) |
| DS0-SEDLAD00 | Basic Model (the basic model that was fully tested) | <input checked="" type="checkbox"/> |
| - | Variant Models | - |

1.2 Applicants Information

| | |
|----------------|--|
| Applicant | TOKYO ELECTRON KOREA LIMITED |
| Address | 51, Jangangongdan 6-gil, Jangan-myeon, Hwaseong-si, Gyeonggi-do, 18579 Korea |
| Telephone No. | +82-31-831-6189 |
| Facsimile No. | +82-31-260-5290 |
| Contact person | Jeong Woon Lee (Ju.lee@tel.com) |

2. Information of Testing Laboratory

Test laboratory and address

KOSTEC Co., Ltd.

28(175-20,Annyeong-dong)406-gil sejaro, Hwaseong-si Gyeonggi-do, Korea

Telephone Number: 82-31-222-4251

Facsimile Number: 82-31-222-4252

Registration information

KOLAS No.: KT232

RRA(National Radio Research Agency): KR0041

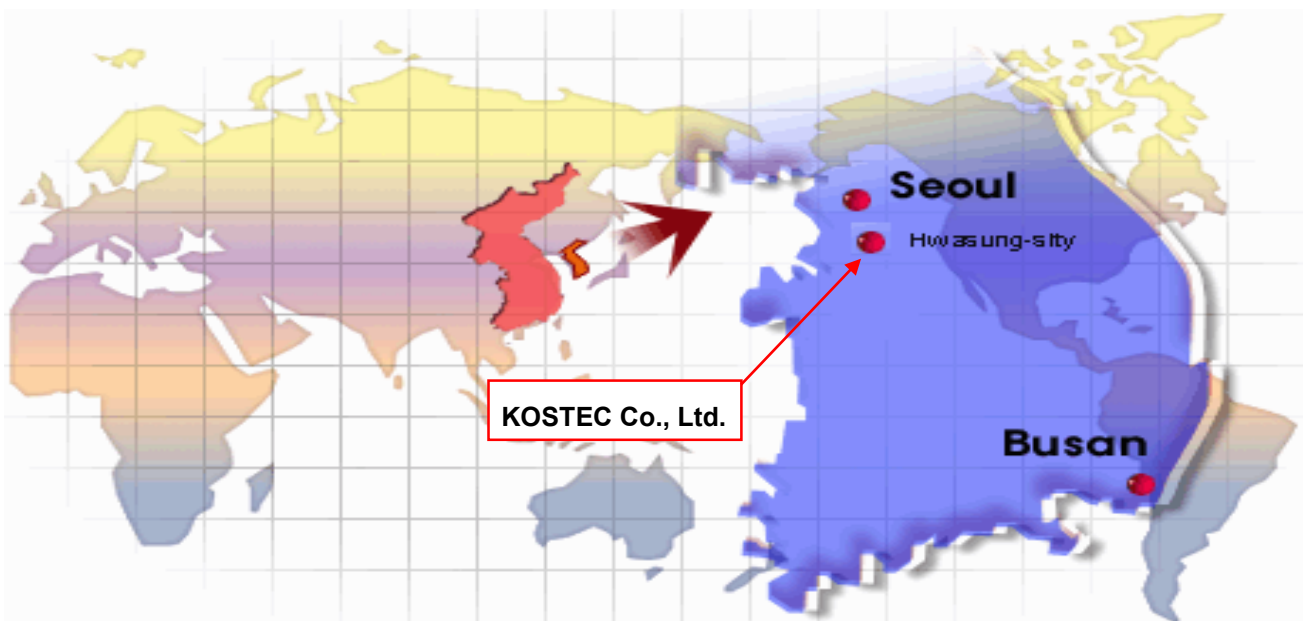
FCC Designation No.: KR0041

IC Designation No.: KR0041

VCCI Membership No. : 2005

VCCI Registration No. of EMI site: R-14202 / C-14685 / G-10834 / T-12225

Route Map of Measurement Facility



3. Test System Configuration

3.1 Operation Environment

| Test Items | Test date | Temp (°C) | Humidity (%R.H.) |
|---------------------------------|-----------|-----------|------------------|
| Conducted Emissions | Jun. 09 | 19 | 40 |
| Radiated Emission (Below 1 GHz) | Jun. 09 | 23 | 41 ~ 42 |
| Radiated Emission (Above 1 GHz) | Jun. 09 | 21 ~ 22 | 41 |

3.2 Measurement Uncertainty

| Test Items | k_p | Expanded Uncertainty | Note |
|---------------------------------|-------|----------------------|------|
| Conducted Emissions | 2 | ±3.44 dB | - |
| Radiated Emission (Below 1 GHz) | 2 | ±4.26 dB | - |
| Radiated Emission (Above 1 GHz) | 2 | ±3.70 dB | - |

3.3 Sample calculation

Conducted Emission

The field strength is calculated by adding the LISN factor, cable loss from the measured reading. The sample calculation is as follows:

FS = MR + Factor
 MR = Meter Reading
 Factor = Ant. Factor, Cable Loss, etc

If MR is 30 dB, LISN Factor 1 dB, CL 1 dB
 The result (MR) is 30 + 1 + 1 = 32 dB μ V

4. Condition and Procedure for Test activities

4.1 Configuration of EUT

| Description | Model or Part No. | Serial No. | Manufacturer |
|-----------------------------|---------------------|-------------|--|
| Advanced Data Logger | DS0-SEDLAD00 | None | TOKYO ELECTRON KOREA LIMITED |
| Adaptor 1 (for EUT) | RH-240250ZZM3 | None | DongGuan RulHong Electronic Technology CO.,LTD |

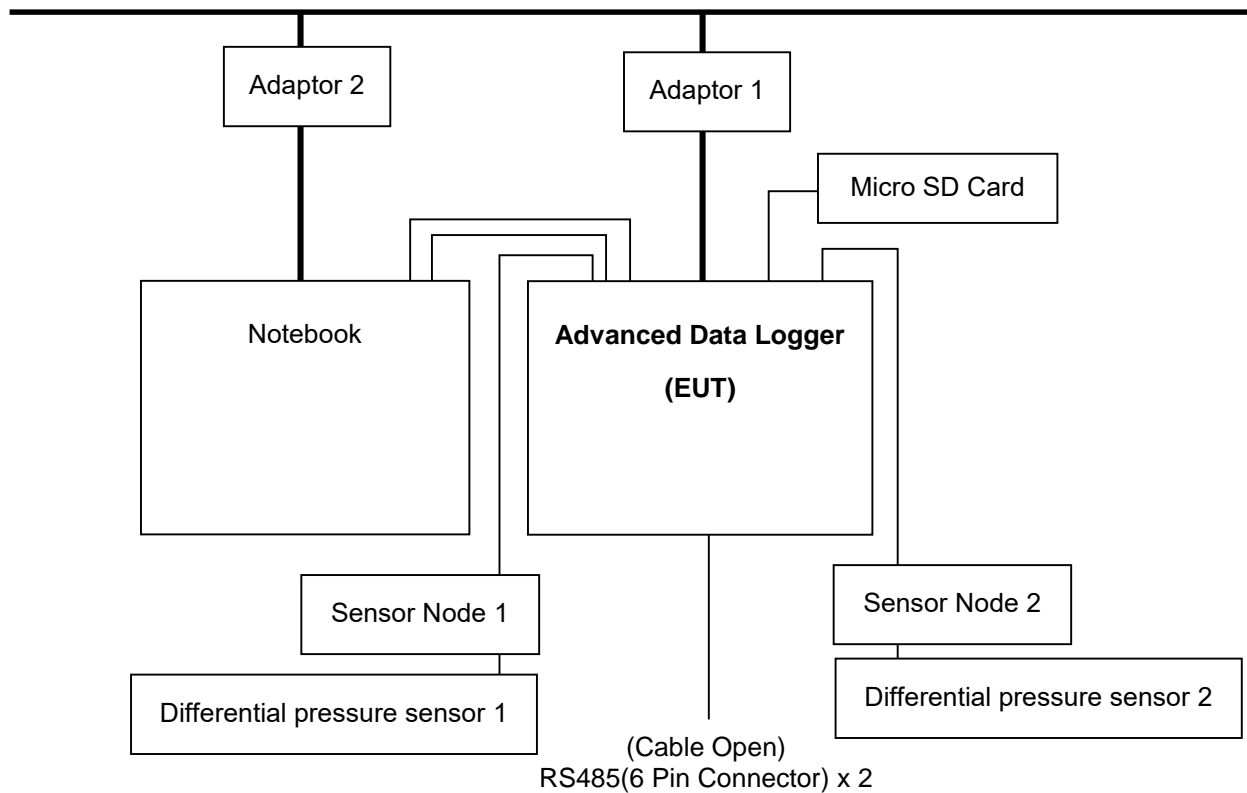
4.2 Used Peripherals

| Description | Model or Part No. | Serial No. | Manufacturer |
|--------------------------------|-------------------|-----------------|--|
| Notebook | NT900X5T | 0WFT91AK800033X | Samsung Electronics Suzhou Computer Co., Ltd |
| Adaptor 2 (for Notebook) | W16-065N4D | BA44-00340A | CHICONY POWER TECHNOLOGY CO.,LTD |
| Sensor Node 1 | None | None | None |
| Sensor Node 2 | None | None | None |
| Differential pressure sensor 1 | GC30-101 | None | NAGANO KEIKI CO.,LTD |
| Differential pressure sensor 2 | 2671025LD2DG2HD | 9057358 | Setra Systems, Inc |
| Micro SD Card | None | None | None |

4.3 Used cables

| Cable Type | Shield | Length (m) | Ferrite | Connector | Connection Point 1 | Connection Point 2 |
|----------------------------------|--------|------------|---------|----------------------------------|--------------------|--------------------------------|
| DC In | No | 1.5 | No | Din | EUT | Adaptor 1 |
| RJ-45 (RS232) | No | 1.8 | No | USB | EUT | Notebook |
| RJ-45 (LAN) | No | 3.0 | No | RJ-45 | EUT | Notebook |
| Micro SD Card Slot | - | - | - | Micro SD Card Slot | EUT | Micro SD Card |
| RS485 (6 Pin Connector) | No | 5.0 | No | RS485 (6 Pin Connector) | EUT | Sensor Node 1 |
| RS485 (6 Pin Connector) | No | 5.0 | No | RS485 (6 Pin Connector) | EUT | Sensor Node 2 |
| RS485 (6 Pin Connector) | No | 5.0 | No | - | EUT | - |
| RS485 (6 Pin Connector) | No | 5.0 | No | - | EUT | - |
| DC In | No | 1.6 | No | Din | Notebook | Adaptor 2 |
| Terminal Block (8 Pin Connector) | No | 1.0 | No | Terminal Block (8 Pin Connector) | Sensor Node 1 | Differential pressure sensor 1 |
| Terminal Block (8 Pin Connector) | No | 1.0 | No | Terminal Block (8 Pin Connector) | Sensor Node 2 | Differential pressure sensor 2 |

4.4 EUT Test Configuration



4.5 Operating conditions

After setting, the each I/O Ports of EUT was connected to peripherals..
 And then, the operating status of EUT and information measured by the differential pressure sensor is stored on the micro SD card through "TeraTerm" program of notebook
 And run "KSLogTool" program to access IP and check the measured information from the differential pressure sensor.
 And tested with "Ping Test" between EUT and notebook.

5. Summary of Test Results

5.1 Modification to the EUT

-

5.2 Summary of Test Results

The following tests were performed on a sample submitted for evaluation of compliance with FCC Part 15 Subpart B

| Clause | Test Requirement | Result |
|--------|---------------------------------|--------|
| 15.107 | Conducted Emissions | Pass |
| 15.109 | Radiated Emission (Below 1 GHz) | Pass |
| 15.109 | Radiated Emission (Above 1 GHz) | Pass |

Note 1) N/A mean is Not Applicable.

Note 2) Decision rule: The statement of conformity in this report was judged according to the specification limits of the standard without considering uncertainty.

Note 3) This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014

6. Test Results

6.1 Conducted Emission

6.1.1 Measurement procedure

In the range of 0.15 MHz to 30 MHz, the conducted disturbance was measured and set-up was made accordance with ANSI C63.4.

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Connect the EUT's power source lines to the appropriate power mains / peripherals through the LISN. All the other peripherals are connected to the 2nd LISN, if any.

Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.

The measuring port of the LISN for EUT was connected to spectrum analyzer.

Using conducted emission test software, the emissions were scanned with peak detector mode.

After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and Average detector.

By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

For further description of the configuration refer to the picture of the test set-up.

6.1.2 Limit for conducted emission

(1) Conducted emission at mains ports.

| Frequency range [MHz] | Limits [dB(μV)] | | | |
|---|-----------------|----------|---------|----------|
| | Quasi-peak | | Average | |
| | Class A | Class B | Class A | Class B |
| 0.15 to 0.50 | 79 | 66 to 56 | 66 | 56 to 46 |
| 0.50 to 5 | 73 | 56 | 60 | 46 |
| 5 to 30 | | 60 | | 50 |
| Note 1 The lower limit shall apply at the transition frequencies. | | | | |
| Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz. | | | | |

- Note) 1. Emission level = Reading value + Correction factor.
 2. Correction factor = Cable loss + Insertion loss of LISN
 3. Margin = Limit - Emission level

6.1.3 Used equipment

| Equipment | Model No. | Serial No. | Manufacturer | Next cal date | Used |
|---------------|-----------------|------------|-----------------|---------------|------|
| Test Receiver | ESCS30 | 100111 | Rohde & Schwarz | 2023. 01. 17 | ● |
| EMI RECEIVER | ER-30 | L0910A010 | LIG | 2022. 08. 30 | - |
| Pulse Limiter | ESH3-Z2 | 100097 | Rohde & Schwarz | 2023. 01. 17 | ● |
| Pulse Limiter | ESH3-Z2 | 100022 | Rohde & Schwarz | 2023. 01. 17 | - |
| LISN | ESH3-Z5 | 100147 | Rohde & Schwarz | 2023. 01. 17 | ● |
| LISN | ESH2-Z5 | 100044 | Rohde & Schwarz | 2023. 01. 18 | ● |
| LISN | ESH2-Z5 | 100060 | Rohde & Schwarz | 2023. 01. 18 | - |
| LISN | 3825/2 | 9402-2163 | ETS-Lindgren | 2023. 01. 18 | - |
| Test Program | ESxS-K1 Ver2.2 | None | Rohde & Schwarz | - | ● |
| Test Program | ETS2008 Ver2.40 | None | LIG | - | - |

6.1.4 Test data

< Class A >

| Freq. [MHz] | Factor [dB] | | POL | QP | | | | CISPR-AV | | | |
|-------------|-------------|------------|-----|----------------|------------------|-----------------|-------------|----------------|------------------|-----------------|-------------|
| | LISN | CABLE +P/L | | Limit [dB(μV)] | Reading [dB(μV)] | Result [dB(μV)] | Margin [dB] | Limit [dB(μV)] | Reading [dB(μV)] | Result [dB(μV)] | Margin [dB] |
| 0.150 | 0.13 | 9.89 | N | 79.00 | 53.22 | 53.35 | 25.65 | 66.00 | 35.90 | 36.03 | 29.97 |
| 0.162 | 0.13 | 9.89 | N | 79.00 | 50.94 | 51.07 | 27.93 | 66.00 | 32.60 | 32.73 | 33.27 |
| 0.173 | 0.13 | 9.90 | N | 79.00 | 49.51 | 49.64 | 29.36 | 66.00 | 32.50 | 32.63 | 33.37 |
| 0.193 | 0.13 | 9.90 | N | 79.00 | 46.12 | 46.25 | 32.75 | 66.00 | 30.10 | 30.23 | 35.77 |
| 0.216 | 0.13 | 9.90 | N | 79.00 | 42.82 | 42.95 | 36.05 | 66.00 | 28.30 | 28.43 | 37.57 |
| 0.228 | 0.13 | 9.90 | N | 79.00 | 41.76 | 41.89 | 37.11 | 66.00 | 27.00 | 27.13 | 38.87 |
| 0.248 | 0.15 | 9.91 | L | 79.00 | 40.35 | 40.50 | 38.50 | 66.00 | 27.10 | 27.25 | 38.75 |
| 0.365 | 0.15 | 9.92 | L | 79.00 | 40.89 | 41.04 | 37.96 | 66.00 | 38.60 | 38.75 | 27.25 |

* LISN: LISN insertion Loss, Cable: Cable Loss, P/L: pulse limiter factor

* L: Line. Live, N: Line. Neutral

* Reading: test receiver reading value (with cable loss & pulse limiter factor)

* Result = LISN + Reading

6.1.5 Conducted emission test graph

Line. Live

Kostec Co.,Ltd

09 Jun 2022 19:24

Conducted Emission

EUT: KST-PO-22-0062
 Manuf:
 Op Cond: AC 120 V / 60 Hz
 Operator: H.S.YEOM
 Test Spec: FCC
 Comment: LIVE

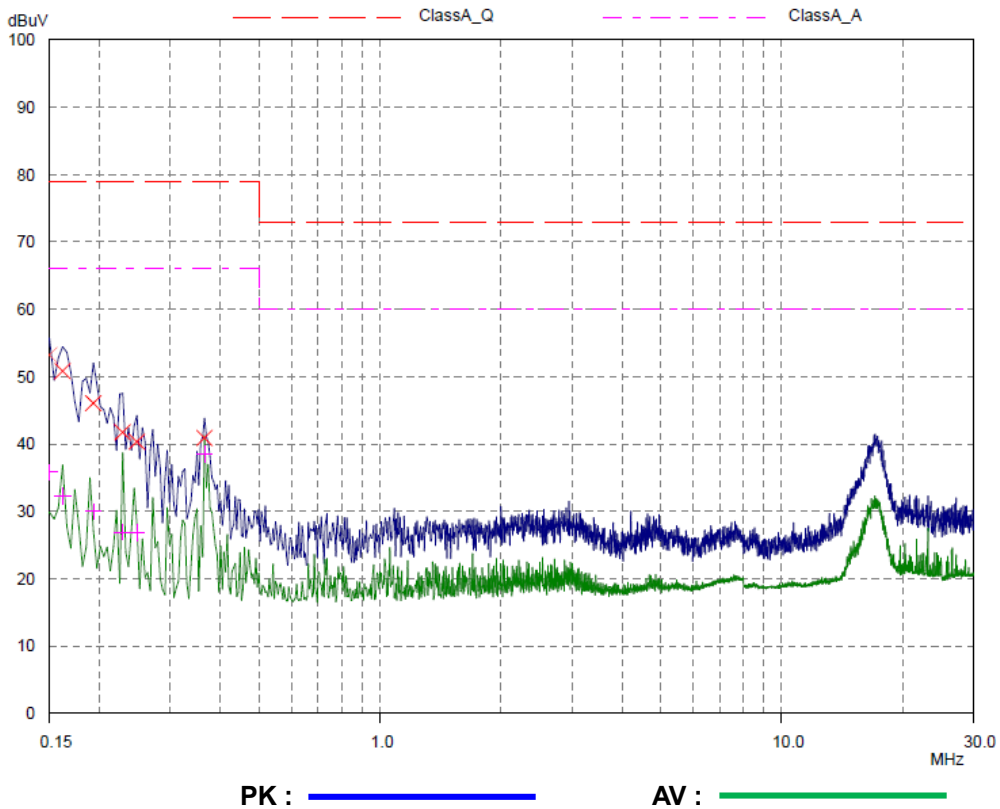
Result File: 0062_L.dat : New Measurement

Scan Settings (1 Range)

| Frequencies | | | | Receiver Settings | | | | | |
|-------------|-------|-----------|-------|-------------------|--------|-------|--------|-------|--|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp | OpRge | |
| 150kHz | 30MHz | 3.9063kHz | 9kHz | PK+AV | 10msec | 15 dB | OFF | 60dB | |

| Transducer | No. | Start | Stop | Name |
|------------|-----|-------|-------|------|
| | 11 | 9kHz | 30MHz | MAIN |

Final Measurement: Detectors: X QP / + AV
 Meas Time: 1sec
 Peaks: 25
 Acc Margin: 50 dB





Line. Neutral

Kostec Co.,Ltd

09 Jun 2022 19:16

Conducted Emission

EUT: KST-PO-22-0062
 Manuf:
 Op Cond: AC 120 V / 60 Hz
 Operator: H.S.YEOM
 Test Spec: FCC
 Comment: NEUTRAL

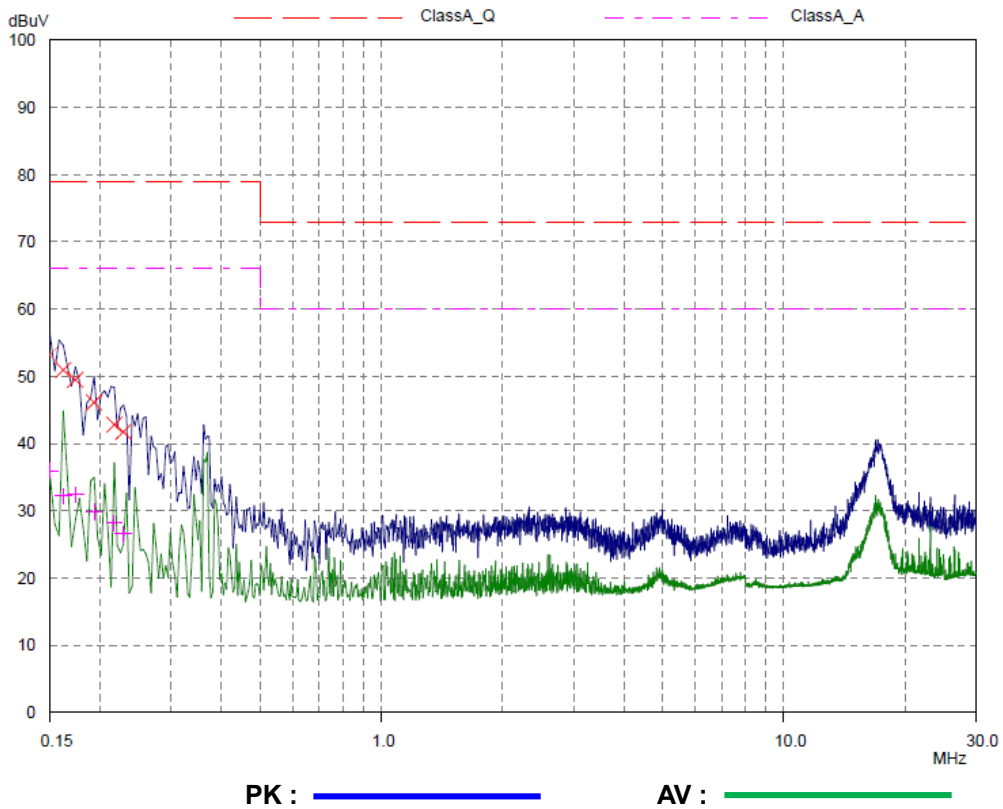
Result File: 0062_N.dat : New Measurement

Scan Settings (1 Range)

| Frequencies | | | Receiver Settings | | | | | |
|-------------|-------|-----------|-------------------|----------|--------|-------|--------|-------|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp | OpRge |
| 150kHz | 30MHz | 3.9063kHz | 9kHz | PK+AV | 10msec | 15 dB | OFF | 60dB |

| Transducer | No. | Start | Stop | Name |
|------------|-----|-------|-------|------|
| | 11 | 9kHz | 30MHz | MAIN |

Final Measurement: Detectors: X QP / + AV
 Meas Time: 1sec
 Peaks: 25
 Acc Margin: 50 dB



6.2 Radiated Emission

6.2.1 Measurement procedure

The radiated disturbance was measured and set-up was made accordance with ANSI C63.4. If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the 10 m semi-anechoic chamber.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

For below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.

Also Peak and Average detector with 1 MHz RBW were used for above 1 GHz frequency range.

For further description of the configuration refer to the picture of the test set-up.

6.2.2 Limit for Radiated emission

- The test frequency range of Radiated disturbance measurements are listed below.

| Highest frequency generated or used in the device or on which the device operates or tunes [MHz] | Upper frequency of measurement range [MHz] |
|--|---|
| Below 108 | 1 000 |
| 108 – 500 | 2 000 |
| 500 – 1 000 | 5 000 |
| Above 1 000 | 5 th harmonic of the highest frequency or 40 GHz, whichever is lower |

(1) Limit for Radiated emission below 1 000 MHz

| Frequency range [MHz] | Class A Equipment (10 m distance) | Class B Equipment (3 m distance) |
|--|-----------------------------------|-----------------------------------|
| | Quasi-peak [dB(μV/m)] | Quasi-peak [dB(μV/m)] |
| 30 to 88 | 39.1 | 40 |
| 88 to 216 | 43.5 | 43.5 |
| 216 to 960 | 46.4 | 46 |
| 960 to 1 000 | 49.5 | 54 |
| Note 1 The lower limit shall apply at the transition frequency. Note 2 Additional provisions may be required for cases where interference occurs. Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below. | | |
| Frequency range [MHz] | Class A Equipment (10 m distance) | Class B Equipment (10 m distance) |
| | Quasi-peak [dB(μV/m)] | Quasi-peak [dB(μV/m)] |
| 30 to 230 | 40 | 30 |
| 230 to 1 000 | 47 | 37 |

(2) Limits for Radiated emission above 1 000 MHz

| Frequency [GHz] | Class A Equipment (@10 m) | | Class B Equipment (@3 m) | |
|-----------------|---------------------------|--------------------|--------------------------|--------------------|
| | Peak [dB(μV/m)] | Average [dB(μV/m)] | Peak [dB(μV/m)] | Average [dB(μV/m)] |
| 1 to 40 | 69.54 | 49.54 | 73.98 | 53.98 |

- Note) 1. Emission level = Reading value + Correction factor.
 2. Correction factor = Cable loss - Amp gain + Antenna factor + Distance compensation value
 3. Margin = Limit - Emission level

Fig.1 Dimensions of test site (Below 1 GHz) : Class A (10 m), Class B (3 m)

Semi-Anechoic Chamber (9.8 m x 18.8 m x 8.7 m)

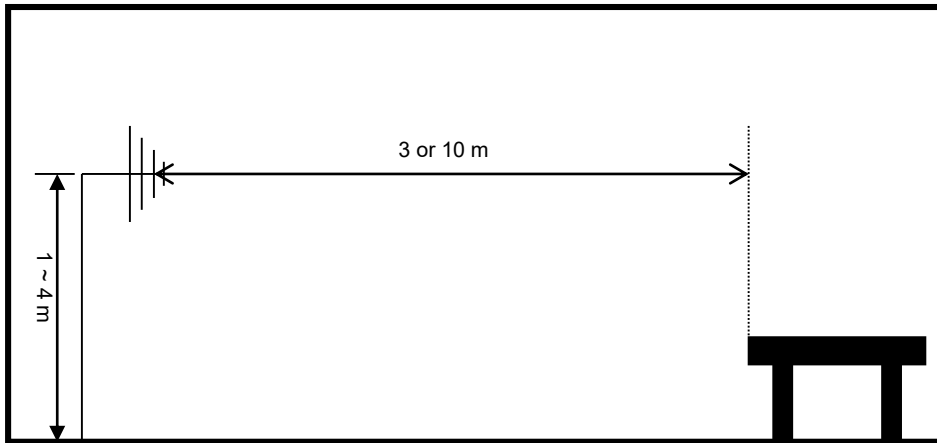
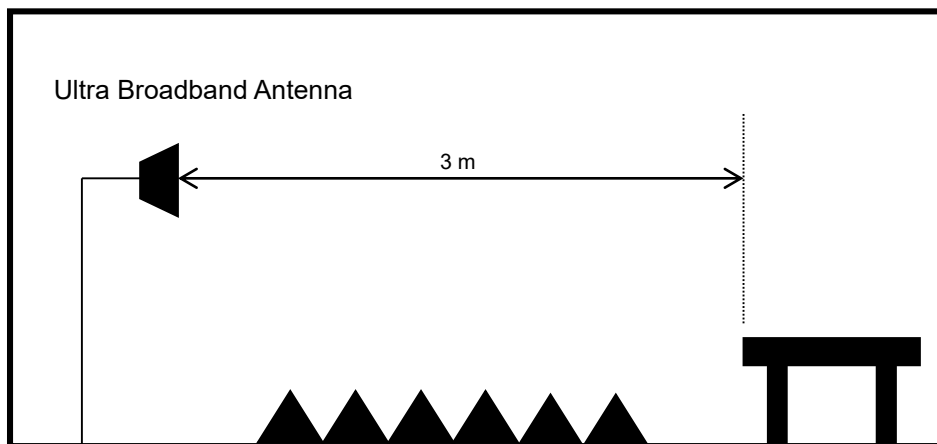


Fig.2 Dimensions of test site (Above 1 GHz)

Semi-Anechoic Chamber + Absorber



6.2.3 Used equipment

1) Below 1 GHz

3 m Semi-Anechoic chamber

| Equipment | Model No. | Serial No. | Manufacturer | Next cal date | Used |
|---------------------|-------------|------------|--------------------|---------------|------|
| Test Receiver | ESI | 837514/004 | Rohde & Schwarz | 2022. 08. 30 | - |
| Test Receiver | ESCI7 | 100969 | Rohde & Schwarz | 2023. 01. 17 | - |
| Hybrid Antenna | VULB9168 | 606 | Schwarzbeck | 2022. 09. 21 | - |
| LOW NOISE AMPLIFIER | TK-PA01S | 200141-L | TESTEK | 2022. 08. 31 | - |
| Antenna Mast | MA4640 | None | innco systems GmbH | - | - |
| Turn Table | DS2000-S-1t | None | innco systems GmbH | - | - |

10 m Semi-Anechoic chamber

| Equipment | Model No. | Serial No. | Manufacturer | Next cal date | Used |
|-------------------|-----------|------------|--------------------|---------------|------|
| Test Receiver | ESCI7 | 100823 | Rohde & Schwarz | 2023. 01. 17 | ● |
| Test Receiver | ESPI | 100488 | Rohde & Schwarz | 2023. 01. 17 | - |
| Biconilog Antenna | 3142B | 1745 | ETS-Lindgren | 2024. 04. 27 | ● |
| Biconilog Antenna | 3142B | 9910-1432 | ETS-Lindgren | 2024. 04. 08 | - |
| AMPLIFIER | TK-PA6S | 120009 | TESTEK | 2023. 01. 17 | - |
| AMPLIFIER | TK-PA01S | 220109-L | TESTEK | 2023. 04. 29 | ● |
| Antenna Master | MA4000-EP | None | innco systems GmbH | - | ● |
| Turn Table | None | None | innco systems GmbH | - | ● |

2) Above 1 GHz

3 m Semi-Anechoic chamber

| Equipment | Model No. | Serial No. | Manufacturer | Next cal date | Used |
|------------------------|-------------|------------|-----------------------------|---------------|------|
| Test Receiver | ESI | 837514/004 | Rohde & Schwarz | 2022. 08. 30 | - |
| Test Receiver | ESCI7 | 100969 | Rohde & Schwarz | 2023. 01. 17 | ● |
| Horn Antenna | 3115 | 2996 | ETS-Lindgren | 2023. 02. 10 | ● |
| Broadband Horn Antenna | BBHA 9170 | 743 | SCHWARZBECK MESS-ELEKTRONIK | 2023. 01. 21 | - |
| Antenna Mast | MA4640 | None | innco systems GmbH | - | ● |
| Turn Table | DS2000-S-1t | None | innco systems GmbH | - | ● |
| AMPLIFIER | 8449B | 3008A02577 | Agilent | 2023. 01. 17 | ● |
| Low Noise Amplifier | TK-PA1840H | 160010-L | TESTEK | 2023. 01. 18 | - |

10 m Semi-Anechoic chamber

| Equipment | Model No. | Serial No. | Manufacturer | Next cal date | Used |
|------------------------|------------|------------|-----------------------------|---------------|------|
| Test Receiver | ESI | 837514/004 | Rohde & Schwarz | 2022. 08. 30 | - |
| Test Receiver | ESCI7 | 100823 | Rohde & Schwarz | 2023. 01. 17 | - |
| Test Receiver | ESCI7 | 100969 | Rohde & Schwarz | 2023. 01. 17 | - |
| Horn Antenna | 3115 | 2996 | ETS-Lindgren | 2023. 02. 10 | - |
| Horn Antenna | 3115 | 9605-4834 | ETS-Lindgren | 2023. 03. 02 | - |
| Broadband Horn Antenna | BBHA 9170 | 743 | SCHWARZBECK MESS-ELEKTRONIK | 2023. 01. 21 | - |
| Antenna Master | MA4000-EP | None | innco systems GmbH | - | - |
| Turn Table | None | None | innco systems GmbH | - | - |
| AMPLIFIER | TK-PA6S | 120009 | TESTEK | 2023. 01. 17 | - |
| AMPLIFIER | 8449B | 3008A02577 | Agilent | 2023. 01. 17 | - |
| AMPLIFIER | 8449B | 3008A00149 | H.P | 2022. 08. 31 | - |
| Low Noise Amplifier | TK-PA1840H | 160010-L | TESTEK | 2023. 01. 18 | - |

6.2.4 Test data

a) Below 1 GHz

< Class A >

| Freq. [MHz] | Reading [dB(μV)] | POL | H [m] | Factor | | | Limit [dB(μV/m)] | Result [dB(μV/m)] | Margin [dB] |
|-------------|------------------|-----|-------|-------------|------------|-----------|------------------|-------------------|-------------|
| | | | | ANT. [dB/m] | CABLE [dB] | AMP. [dB] | | | |
| 50.43 | 31.53 | V | 1.1 | 14.34 | 1.42 | 51.92 | 39.10 | 31.53 | 7.57 |
| 106.67 | 31.31 | V | 1.3 | 13.87 | 2.19 | 51.83 | 43.50 | 31.31 | 12.19 |
| 125.01 | 34.90 | V | 1.2 | 12.80 | 2.38 | 51.81 | 43.50 | 34.90 | 8.60 |
| 145.29 | 27.86 | V | 1.2 | 14.86 | 2.54 | 51.79 | 43.50 | 27.86 | 15.64 |
| 196.85 | 28.72 | V | 1.4 | 16.34 | 2.97 | 51.87 | 43.50 | 28.72 | 14.78 |
| 250.08 | 27.74 | V | 1.3 | 19.00 | 3.43 | 51.89 | 46.40 | 27.74 | 18.66 |

* Result & Reading : Test receiver reading value (Included ANT., CABLE and AMP. factor)

* POL = Antenna Polarization / H = Antenna Height * Receiving Antenna Mode : Horizontal, Vertical

* ANT. = Antenna factor / CABLE = used Cable loss/AMP.: Gain of the Amplifier

b) Above 1 GHz

< Class A >

| Freq. [GHz] | Reading | | POL | H [m] | Factor | | | | Peak | | | CISPR Average | | |
|-------------|---------------|------------------|-----|-------|-------------|------------|-----------|---------------|------------------|-------------------|-------------|------------------|-------------------|-------------|
| | Peak [dB(μV)] | Average [dB(μV)] | | | ANT. [dB/m] | CABLE [dB] | AMP. [dB] | Distance [dB] | Limit [dB(μV/m)] | Result [dB(μV/m)] | Margin [dB] | Limit [dB(μV/m)] | Result [dB(μV/m)] | Margin [dB] |
| 5.747 | 62.34 | 47.24 | H | 1.0 | 34.49 | 10.92 | 28.38 | -10.46 | 69.54 | 51.88 | 17.66 | 49.54 | 36.78 | 12.76 |

* Result = Reading + Distance

* Reading : Test receiver reading value (Included ANT., CABLE and AMP. factor)

* POL = Antenna Polarization / H = Antenna Height * Receiving Antenna Mode : Horizontal, Vertical

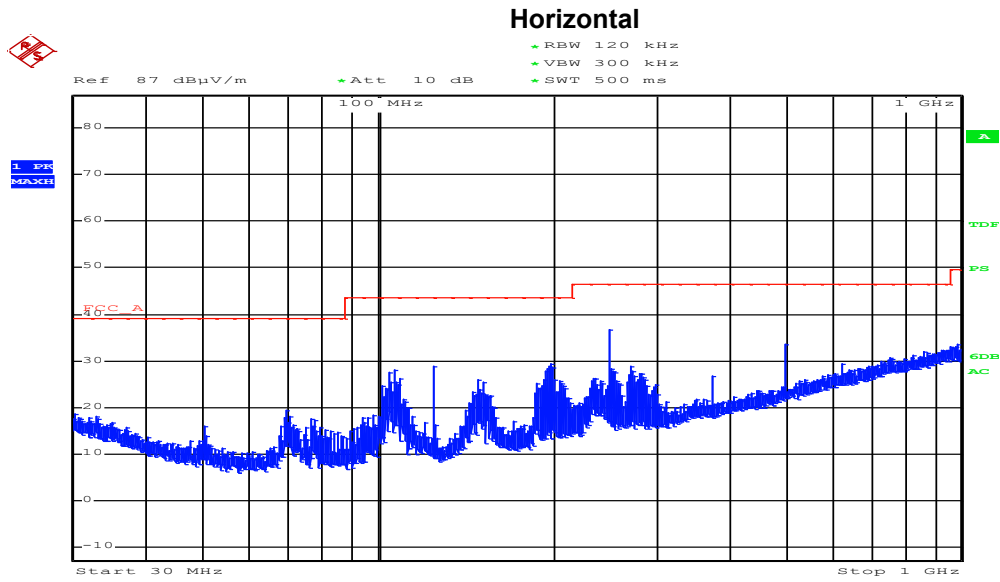
* ANT. = antenna factor / CABLE = used cable loss / AMP.: Gain of the Amplifier /

Distance : Distance compensation value

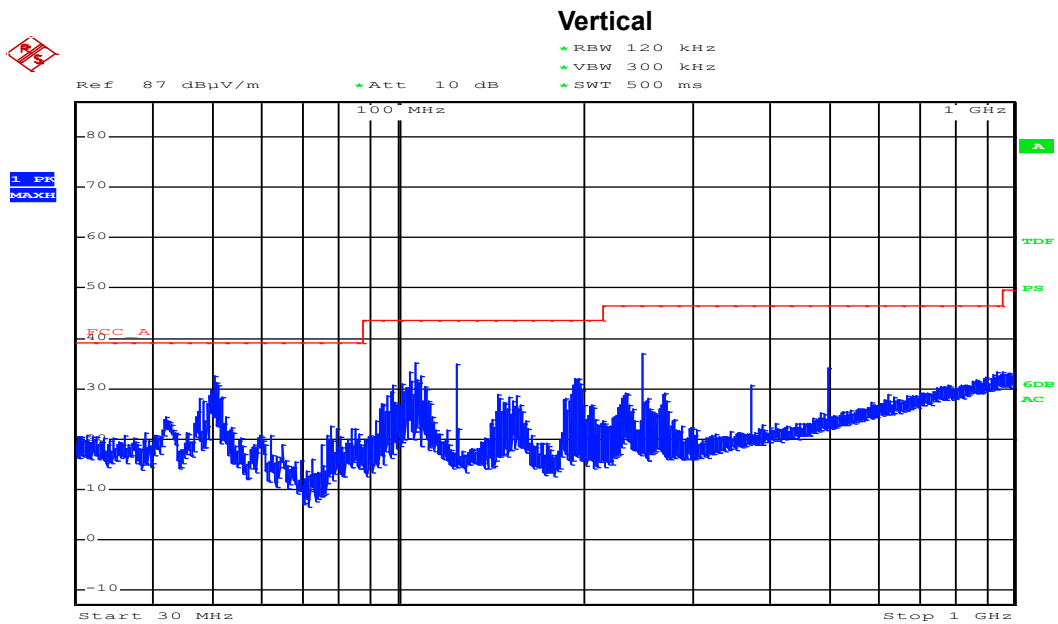
※ Except for the above data, the emission levels were very low, so that the other data are not reported. (See Radiated Emission Graph)

6.2.5 Radiated Emission test graph

a) Below 1 GHz

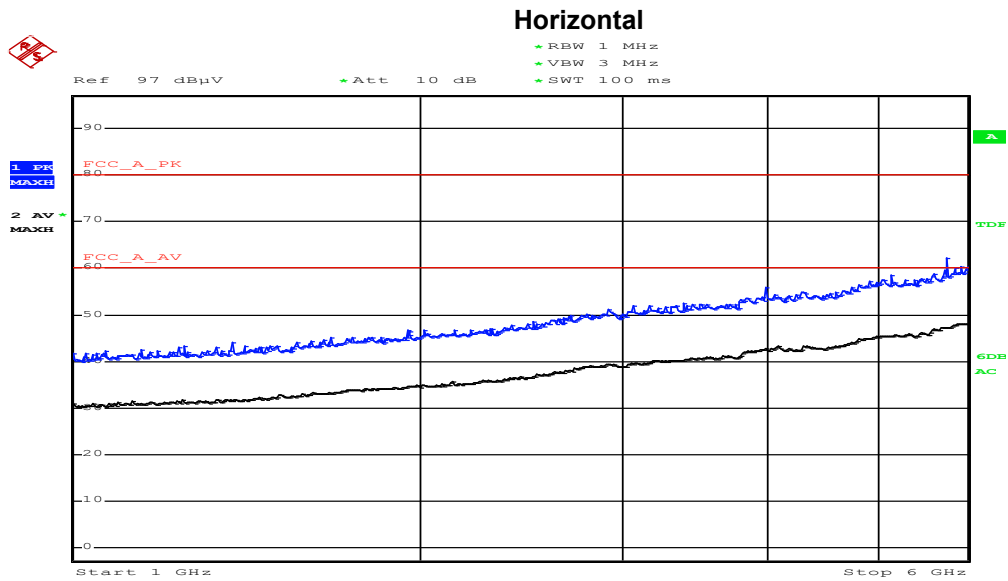


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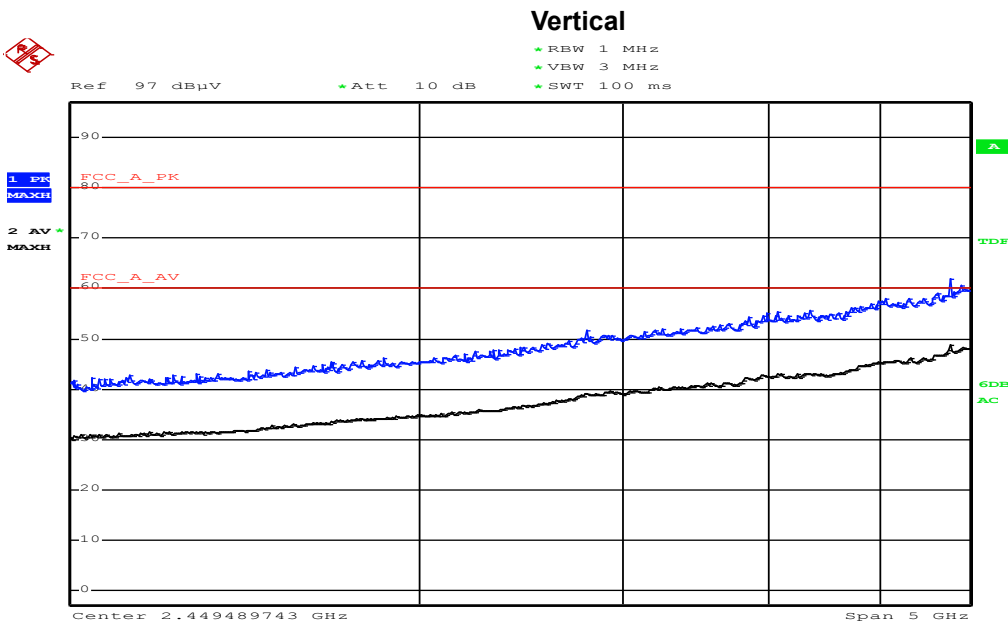


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b) Above 1 GHz



Date: 9.JUN.2022 15:45:58



Date: 9.JUN.2022 16:00:15