

|                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                |                                                                                    |                                                                     |                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                               | <b>SE23XRNE-001</b>                                                            | <b>Auftrags-Nr.:</b><br>Order no.:                                                 | <b>0290100212</b>                                                   | Seite 1 von 23<br>Page 1 of 23           |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                      | <b>2458172</b>                                                                 | <b>Auftragsdatum:</b><br>Order date:                                               | <b>2022.09.29</b>                                                   |                                          |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                           | <b>Nomono AS</b>                                                               |                                                                                    |                                                                     |                                          |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                      | <b>Lavalier microphone with wireless communication</b>                         |                                                                                    |                                                                     |                                          |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                               | <b>Stellar Mic / FCC ID: 2A9CX-MIC1</b>                                        |                                                                                    |                                                                     |                                          |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                 | <b>Accredited Testing</b>                                                      |                                                                                    |                                                                     |                                          |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                              | <b>FCC 47 CFR Part 15B with parts 15.107 &amp; 15.109<br/>ANSI C63.4: 2014</b> |                                                                                    |                                                                     |                                          |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                     | <b>2022.11.09</b>                                                              |                                                                                    |                                                                     |                                          |
| <b>Prüfmuster-Nr.:</b><br>Test sample no.:                                                                                                                                                                                                                                                                                                                                                | <b>See section 2.3</b>                                                         |                                                                                    |                                                                     |                                          |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                   | <b>2023.01.10 – 2023.03.02</b>                                                 |                                                                                    |                                                                     |                                          |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                              | <b>Lund, Sweden</b>                                                            |                                                                                    |                                                                     |                                          |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                           | <b>TÜV Rheinland Sweden</b>                                                    |                                                                                    |                                                                     |                                          |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                    | <b>Pass</b>                                                                    |                                                                                    |                                                                     |                                          |
| <b>überprüft von:</b><br>reviewed by:                                                                                                                                                                                                                                                                                                                                                     | <b>genehmigt von:</b><br>authorized by:                                        |                                                                                    |                                                                     |                                          |
| <b>Datum: 2023.04.19</b><br>Date:                                                                                                                                                                                                                                                                                                                                                         | <b>Datum: 2023.04.19</b><br>Date:                                              |                                                                                    |                                                                     |                                          |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                               | <b>Senior Technical Expert</b>                                                 | <b>Stellung / Position:</b>                                                        | <b>Lab Manager</b>                                                  |                                          |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                 |                                                                                |                                                                                    |                                                                     |                                          |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                           |                                                                                | <b>Prüfmuster vollständig und unbeschädigt</b><br>Test item complete and undamaged |                                                                     |                                          |
| * Legende:                                                                                                                                                                                                                                                                                                                                                                                | 1 = sehr gut<br>P(ass) = entspricht o.g. Prüfgrundlage(n)                      | 2 = gut<br>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)                         | 3 = befriedigend<br>F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | 4 = ausreichend<br>N/A = nicht anwendbar |
| * Legend:                                                                                                                                                                                                                                                                                                                                                                                 | 1 = very good<br>P(ass) = passed a.m. test specification(s)                    | 2 = good<br>F(ail) = failed a.m. test specification(s)                             | 3 = satisfactory<br>F(ail) = failed a.m. test specification(s)      | 4 = sufficient<br>N/A = not applicable   |
| 5 = mangelhaft<br>N/T = nicht getestet<br>5 = poor<br>N/T = not tested                                                                                                                                                                                                                                                                                                                    |                                                                                |                                                                                    |                                                                     |                                          |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. |                                                                                |                                                                                    |                                                                     |                                          |

## Revision HistorySE23XRNE-001SE23XRNE-001

| REVISION | DATE       | REMARKS       | AUTHOR          |
|----------|------------|---------------|-----------------|
| 001      | 2023.04.14 | First release | Niall Forrester |
|          |            |               |                 |
|          |            |               |                 |

Note: Latest revision report will replace all previous reports

This report based on FCC Part 15B no JBP Template version 1.3

## Summary of Test Results

| FCC 47 CFR Rule Part | Test Description                                            | Applicability | Report Section | RESULT | REMARKS |
|----------------------|-------------------------------------------------------------|---------------|----------------|--------|---------|
| 15.107               | AC Power Line Conducted Emissions (Unintentional Radiators) | YES           | 4.1            | PASS   |         |
| 15.109               | Radiated Emissions (Unintentional Radiators)                | YES           | 4.2            | PASS   |         |

Possible test case verdicts:

- |                                                |                       |
|------------------------------------------------|-----------------------|
| - Test case does not apply to the test object: | N/A                   |
| - Test object complies with the requirement:   | PASS or COMPLIANT     |
| - Test object does not meet the requirement:   | FAIL or NOT COMPLIANT |
| - Test case not performed on the test object:  | N.P.                  |

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## 1. GENERAL INFORMATION

### 1.1 Test Site

|                                     |                         |
|-------------------------------------|-------------------------|
| Test Facility:                      | TÜV Rheinland Sweden AB |
| Address:                            | Mobilvägen 10           |
|                                     | 223 62 Lund             |
|                                     | Sweden                  |
|                                     |                         |
| Swedac Registration Number:         | 10325                   |
| FCC Test Firm Registration Number:  | 517458                  |
| ISED Test Site Registration Number: | 24753                   |

### 1.2 Client Information

|                            |                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------|
| Company Name:              | Nomono AS                                                                                           |
| Address:                   | Strandveien 43                                                                                      |
|                            | 7067 Trondheim                                                                                      |
|                            | Norway                                                                                              |
|                            |                                                                                                     |
| Contact Person:            | Kristine Snyder / Sindre Georgsen                                                                   |
| Contact e-Mail / Telephone | <a href="mailto:compliance@nomono.co">compliance@nomono.co</a><br>+47 40 44 00 40 / +47 93 42 48 42 |

## 2. PRODUCT INFORMATION

### 2.1 General Description

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Model name:                    | Stellar Mic                                      |
| Manufacturer:                  | Nomono                                           |
| Model number / Marketing name: | Stellar Mic                                      |
| FCC ID:                        | 2A9CX-MIC1                                       |
| Description:                   | Lavaliere microphone with wireless communication |
| Ancillary Equipment:           | See section 2.7                                  |

### 2.2 Device Characteristics

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| Device Class for 47 CFR Part 15 B | Class B                                                   |
| Type of Power Supply              | Internal battery<br>Charging via dedicated charging base  |
| Nominal Supply Voltage            | 3.7V DC (Battery)<br>5.0V DC (From charging base)         |
| Supply Voltage Range              | 3.0V - 4.2V (Battery)<br>4.9V – 5.1V (From charging base) |
| Operating Temperature Range       | -10 to 45 °C                                              |
| Operating Air Humidity Range      | -                                                         |
| Highest Internal Frequency Source | 2480 MHz                                                  |

### 2.3 Test Samples

| EUT # | EUT ID         | Description                                                        | Used For:                          |
|-------|----------------|--------------------------------------------------------------------|------------------------------------|
| 1     | A003368431-003 | Standard Sample<br>Hardware: 830-00005 rev. 3<br>Firmware: v0.6.4  | Radiated Emissions                 |
| 2     | A003368431-004 | Standard Sample<br>Hardware: 830-00005 rev. 3<br>Firmware: v0.6.4  | Radiated Emissions                 |
| 3     | A003419822-002 | Standard Sample<br>Hardware: 830-00005 rev. 3<br>Firmware: v0.6.13 | AC Emissions<br>Radiated Emissions |

## 2.4 Wireless Technologies and Bands Supported by the EUT

| Technology                     | Band    | Frequency Range (Tx) | Evaluation Performed |
|--------------------------------|---------|----------------------|----------------------|
| Bluetooth Low Energy (nRF5340) | 2.4 GHz | 2402 MHz - 2480 MHz  | N/A                  |

(Note that other parts of the recording system contain additional wireless transmitters have been tested separately)

## 2.5 Antenna Information

| Technology                     | Band    | Number of Antennas | Antenna Type(s)     | Gain (dBi) |
|--------------------------------|---------|--------------------|---------------------|------------|
| Bluetooth Low Energy (nRF5340) | 2.4 GHz | 1                  | SMT Ceramic Antenna | 3.60       |

## 2.6 Wireless Technology Details

| Technology                     | Band    | Modulation Type(s) | No. of Channels | Channel Spacing | Adaptivity |
|--------------------------------|---------|--------------------|-----------------|-----------------|------------|
| Bluetooth Low Energy (nRF5340) | 2.4 GHz | GFSK               | 40              | 2 MHz           | N/A        |

## 2.7 Ancillary Equipment

| ID             | Description         | Manufacturer / Model  | Hardware & Software Versions                                 |
|----------------|---------------------|-----------------------|--------------------------------------------------------------|
| A003414830-001 | Charging Base       | Nomono Charging Case  | HW: 830-00009 rev. 1<br>FW: v0.3.4                           |
| A003421467-001 | Recording Device    | Nomono Space Recorder | HW: 830-00002 rev. 4<br>FW: nRF radio: v0.8.0<br>CPU: v0.6.1 |
| A003419822-003 | Wireless Microphone | Nomono Stellar Mic    | HW: 830-00005 rev. 3<br>FW: v0.6.13                          |
| A003419822-004 | Wireless Microphone | Nomono Stellar Mic    | HW: 830-00005 rev. 3<br>FW: v0.6.13                          |
| A003419822-005 | Wireless Microphone | Nomono Stellar Mic    | HW: 830-00005 rev. 3<br>FW: v0.6.13                          |
| A003389898-003 | USB Charger         | Samsung EP-T4510      | HW: 13.08.2022<br>FW: N/A                                    |

## 2.8 EUT Diagrams

N/A

### 3. TEST METHODS

#### 3.1 Test Standards

Testing was performed according to the following standards / references

| Standard          | Version | Description              |
|-------------------|---------|--------------------------|
| FCC 47 CFR 15.107 | -       | Conducted limits         |
| FCC 47 CFR 15.109 | -       | Radiated emission limits |

#### 3.2 Additional references

The following standards / references were also considered for the testing

| Standard   | Version | Description                                                                                                                                                         |
|------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANSI C63.4 | 2014    | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |

### 3.3 Limits

| FCC 47 CFR Rule Part | Test Description                                            | Limit Reference (FCC 47 CFR Reference)        |
|----------------------|-------------------------------------------------------------|-----------------------------------------------|
| 15.107               | AC Power Line Conducted Emissions (Unintentional Radiators) | 15.107 (a) for Class B Devices                |
| 15.109               | Radiated Emissions (Unintentional Radiators)                | 15.109 (a) for Class B Devices<br>*See Note 1 |

Interpretation of the measurement results has been performed in accordance with ANSI C63.4 section 10.2.8.2

Compliance with the requirements has been based on the results of the measurements compared to the specified limits, not taking into account measurement instrumentation uncertainty.

Measurement Uncertainty figures are stated in section 6

#### Note 1

Radiated Emissions limits in the tables from 47 CFR sections 15.109 are presented in  $\mu\text{V/m}$ . Measurements on the test system are made in  $\text{dB}\mu\text{V/m}$ . To convert between these, the following adjustment is used:

$$\text{New Limit} = 20 \log \left( \frac{\text{Original Limit}}{10^6} \right) + 120$$

Example: from 15.209(a) the limit for 30MHz – 88MHz is  $100\mu\text{V/m}$  at 3m. This gives:

$$\text{New Limit} = 20 \log \left( \frac{100}{10^6} \right) + 120 = 40\text{dB}\mu\text{V/m at 3m}$$

Additionally, in some cases testing has been performed at distances other than those specified in the tables. When this has occurred, the limits have been adjusted in accordance with the requirements in 47 CFR 15.31, using an extrapolation factor of 40dB/decade at frequencies below 30MHz and 20dB/decade at or above 30MHz

Example: from 15.209(a) the limit for 1.705MHz – 30MHz is  $30\mu\text{V/m}$  (=29.54  $\text{dB}\mu\text{V/m}$ ) at 30m

$$\text{Limit@3m} = \text{Limit@30m} + 40 \log \left( \frac{30}{3} \right) = 29.54 + 40.00 = 69.54 \text{ dB}\mu\text{V/m at 3m}$$

Example: from 15.209(a) the limit for 1GHz – 18GHz is  $500\mu\text{V/m}$  (=53.98  $\text{dB}\mu\text{V/m}$ ) at 3m

$$\text{Limit@1m} = \text{Limit@3m} + 20 \log \left( \frac{3}{1} \right) = 53.98 + 9.54 = 63.52 \text{ dB}\mu\text{V/m at 1m}$$

### 3.4 Description of Test Methods and Equipment Setup

#### 3.4.1 General Description

Testing was performed in accordance with the various requirements of ANSI C63.4 and ANSI C63.10. Any deviations from the test methods are described in section 3.7

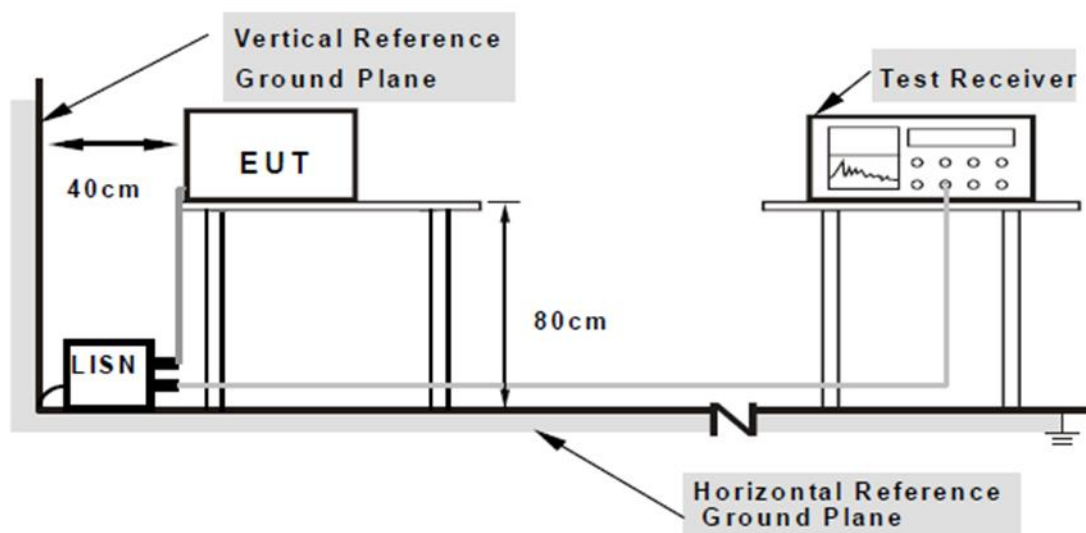
Where different arrangements of equipment were used for different types of measurements, these are tabulated in section 3.4.2 and details of each arrangement are included in subsequent sections

#### 3.4.2 Test Equipment Setup Used by Test Type

| FCC 47 CFR Rule Part | Test Description                                            | Test Equipment Used |
|----------------------|-------------------------------------------------------------|---------------------|
| 15.107               | AC Power Line Conducted Emissions (Unintentional Radiators) | Conducted Emissions |
| 15.109               | Radiated Emissions (Unintentional Radiators)                | SAC5                |

#### 3.4.3 Test Equipment Setup – Conducted Emissions

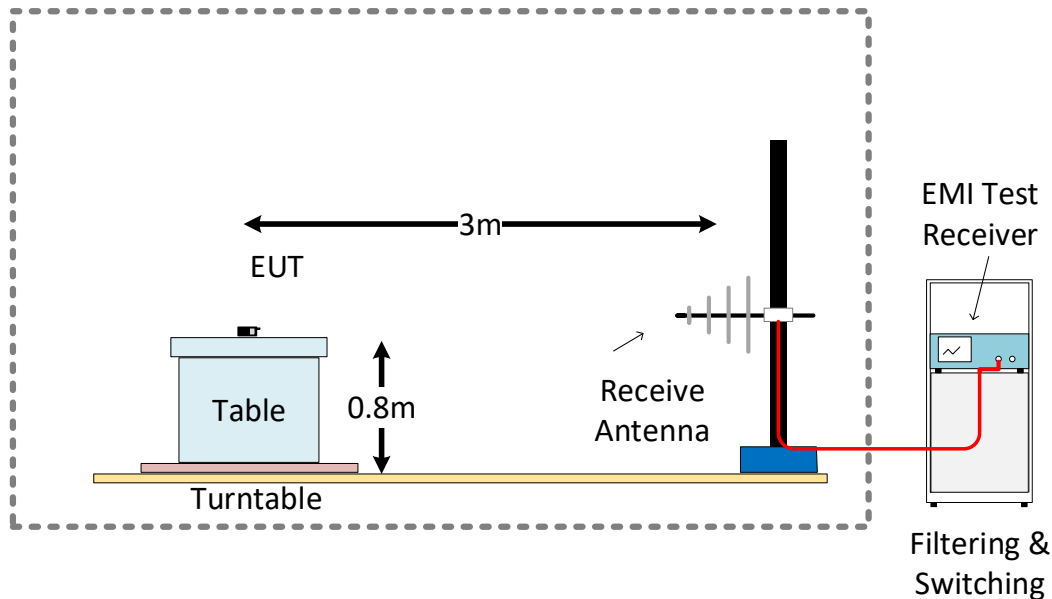
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The LISNs provide 50Ω/ 50μH of coupling impedance for the measuring instrument.
- The lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10 dB under the prescribed limits could not be reported.



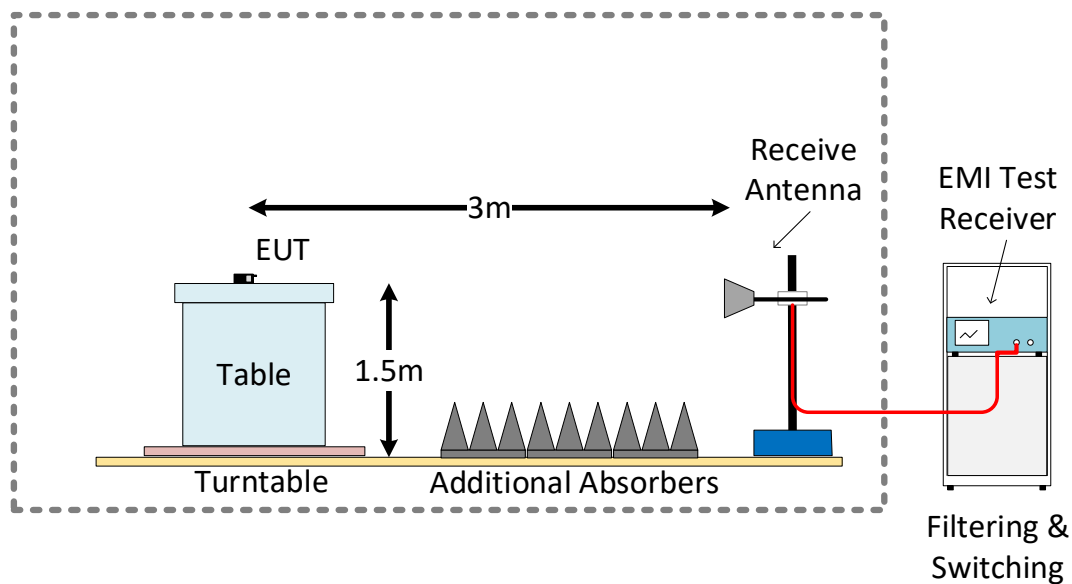
#### 3.4.4 Test Equipment Setup – SAC 5 (Radiated Emissions)

- For frequency range 30MHz-1GHz Log-Periodic Antenna was used. Antenna elevated from 100 cm from floor to 400 cm from floor, and was placed at 3 m from center of turntable in tilted position. The equipment under test (EUT) was placed at the middle of the turntable at 80 cm height from floor. The antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.
- For frequency range 1GHz-18GHz horn Antenna was used. Antenna elevated from 100 cm from floor to 200 cm from floor, and was placed at 3 m from center of turntable. The equipment under test (EUT) was placed at the middle of the turntable at 150 cm height from floor. The antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.
- For frequency range 18GHz-40GHz double horn Antenna was used. Antenna's height was adjusted to 150 cm from floor, and 1 m distance to center of turntable. The equipment under test (EUT) was placed at the middle of the turntable on at 150 cm height from floor.
- For all frequency ranges the turntable was rotated 360° for obtaining the maximum emission.

SAC 5 Test Setup Configuration 30MHz – 1GHz

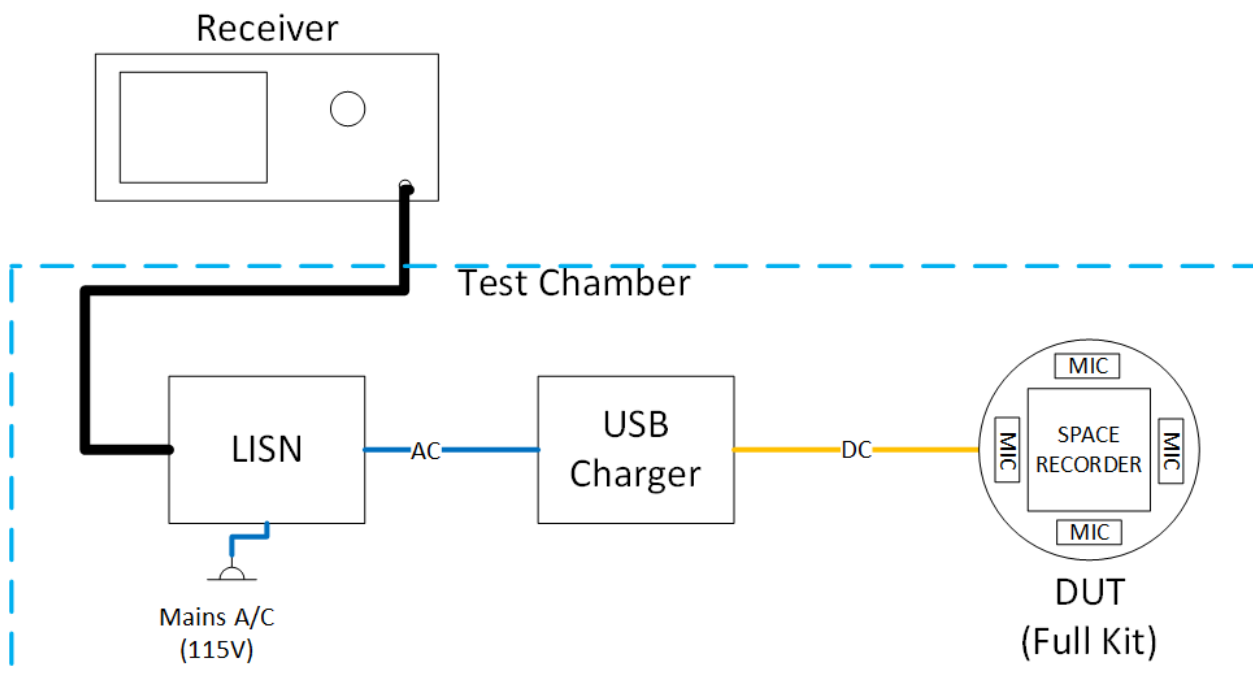


### SAC 5 Test Setup Configuration 1GHz – 18GHz



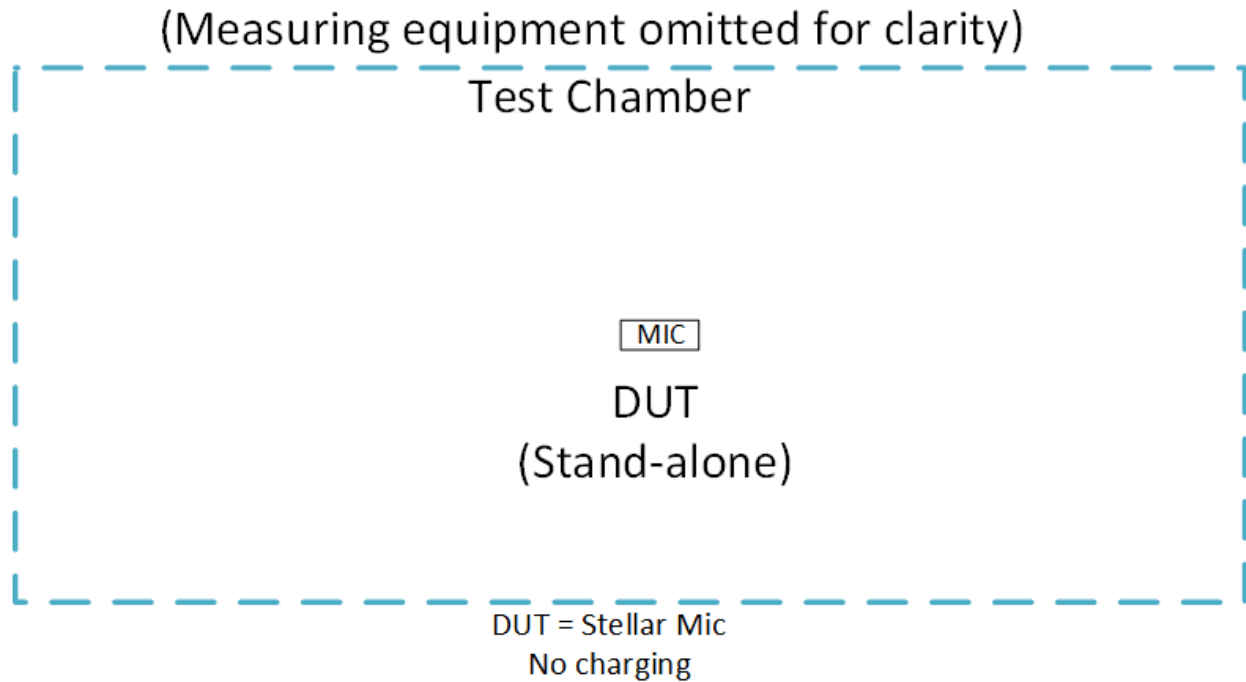
## 3.5 EUT Configuration During Test

### AC Conducted Emissions Testing: Block Diagram (Full Kit with charging)

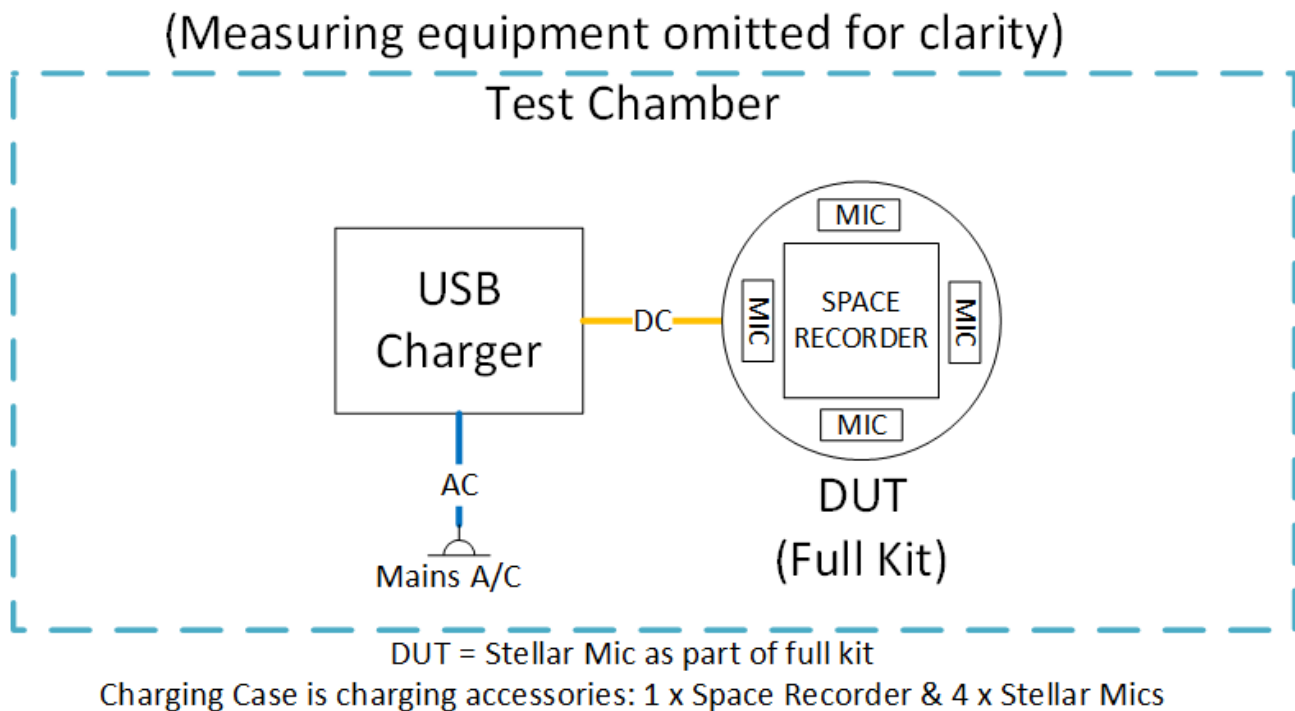


DUT = Stellar Mic as part of full kit  
Charging Case is charging accessories: 1 x Space Recorder & 4 x Stellar Mics

**Radiated Emissions & Radiated RF Testing: Block Diagram (Stand-alone, no charging)**



**Radiated Emissions & Radiated RF Testing: Block Diagram (Full Kit with charging)**



### 3.6 EUT Operation Modes

| Operation mode       | Description                                                                                                                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mic – No Chg – No Tx | Stellar Mic only in “stand-alone” configuration.<br>Device not charging (not in charging base) – battery power only<br>Radio Transmitter (Bluetooth Low Energy) set to receive-only mode                        |
| Kit - Charge - No Tx | “Full Kit”: Charging Base with 1 x Space Recorder & 4x Stellar Mic<br>All devices charging via USB connected to Charging Base<br>All radio transmitters (Space Recorder & Stellar Mic) set to receive-only mode |

### 3.7 Deviations from the Test Standard

Note that for “Full Kit” configurations, the device under test, “Stellar Mic” was tested together with three additional “Stellar Mic” devices, a “Space Recorder” device and a “Charging Case” device, representing the items that are packaged together and can be charged together when placed in the “Charging Case”.

### 3.8 Environmental Conditions

#### 3.8.1 Environmental Conditions – Conducted Emissions System

| Date       | Time  | Temperature (°C) | Relative Humidity (%) |
|------------|-------|------------------|-----------------------|
| 2023.03.02 | 09:57 | 22.5             | 23                    |

#### 3.8.2 Environmental Conditions – SAC5 (Radiated Emissions)

| Date       | Time  | Temperature (°C) | Relative Humidity (%) |
|------------|-------|------------------|-----------------------|
| 2023.01.10 | 07:47 | 18.2             | 41                    |
| 2023.01.19 | 07:13 | 17.9             | 37                    |
| 2023.02.27 | 09:15 | 18.4             | 30                    |
| 2023.02.28 | 07:35 | 18.7             | 32                    |

## 4. TEST RESULTS

### 4.1 Test Results – AC Power Line Conducted Emissions (Unintentional Trans.)

#### 4.1.1 AC Power Line Conducted Emissions (Unintentional) – Test Summary

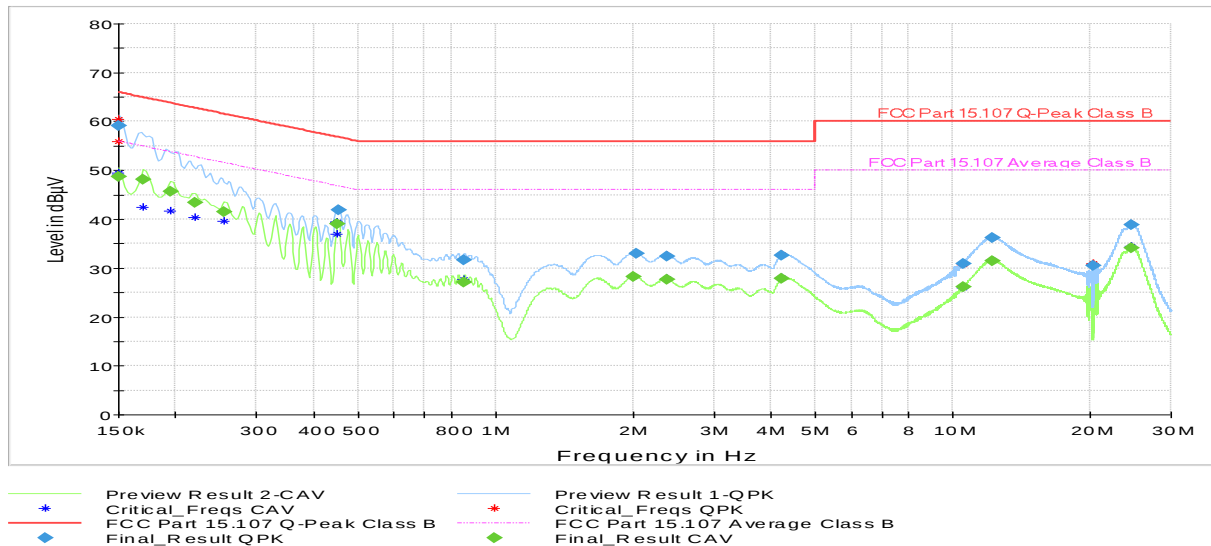
|                                                                    |                                       |                                                                              |         |
|--------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------|---------|
| Test Specification                                                 | FCC 47 CFR 15.107 (Part 15 Subpart B) |                                                                              |         |
| Test Engineer & Date                                               | Niall Forrester                       | 2023.03.02                                                                   |         |
| EUT and Ancillary Equipment IDs                                    | A003419822-002                        | A003421467-001<br>A003414830-001<br>A003419822-003/004/005<br>A003389898-003 |         |
| EUT Operation Mode(s)                                              | Kit - Charge - No Tx                  |                                                                              |         |
| EUT Wireless Configuration(s)                                      | Receive Only (No Tx)                  |                                                                              |         |
| EUT Hardware Configuration(s)                                      | Full Kit                              |                                                                              |         |
| Overall Result                                                     | PASS                                  |                                                                              |         |
|                                                                    |                                       |                                                                              |         |
| Test Parameter                                                     | Wireless Configuration                | Frequency Range                                                              | Result* |
| AC Conducted Power Line Emissions – “N” Line 115V / 60Hz Full Kit  | Receive Only                          | 150kHz – 30MHz                                                               | PASS    |
| AC Conducted Power Line Emissions – “L1” Line 115V / 60Hz Full Kit | Receive Only                          | 150kHz – 30MHz                                                               | PASS    |

\* For detailed measurements, see tables and graphs in sections below

NOTE: As the device is only connected to the AC mains when charging in the dedicated Charging Case, this test was run with the “Full Kit” of devices: the Charging Case, four Stellar Mics and one Space Recorder, with an AC/DC adapter connected to the Charging Case. These results are duplicated in the reports for the Charging Case and the Space Recorder.

#### 4.1.2 AC Power Line Conducted Emissions (Unintentional) – Test Details: Full Kit

|                     |                                                                            |                  |
|---------------------|----------------------------------------------------------------------------|------------------|
| Test mode condition | Conducted Emissions                                                        |                  |
| Sweep frequency     | 150 kHz – 30 MHz                                                           |                  |
| Standard            | FCC 47 Part 15.107                                                         |                  |
| EUT                 | A003419822-002                                                             |                  |
| Ancillary Equipment | A003421467-001, A003414830-001<br>A003419822-003/004/005<br>A003389898-003 |                  |
| Test Engineer       | Niall Forrester                                                            | Date: 2023.03.02 |



| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter |
|-----------------|------------------|-----------------|--------------|-------------|-----------------|-----------------|------|--------|
| 0.150000        | 59.12            | ---             | 66.00        | 6.88        | 1000.0          | 9.000           | N    | ON     |
| 0.150000        | ---              | 48.71           | 56.00        | 7.29        | 1000.0          | 9.000           | N    | ON     |
| 0.170250        | ---              | 48.17           | 54.95        | 6.78        | 1000.0          | 9.000           | N    | ON     |
| 0.195000        | ---              | 45.78           | 53.82        | 8.05        | 1000.0          | 9.000           | N    | ON     |
| 0.219750        | ---              | 42.83           | 52.83        | 9.41        | 1000.0          | 9.000           | N    | ON     |
| 0.255750        | ---              | 41.42           | 51.57        | 10.14       | 1000.0          | 9.000           | N    | ON     |
| 0.451500        | ---              | 39.01           | 46.85        | 7.83        | 1000.0          | 9.000           | L1   | ON     |
| 0.453750        | 41.96            | ---             | 56.81        | 14.84       | 1000.0          | 9.000           | L1   | ON     |
| 0.854250        | ---              | 27.04           | 46.00        | 18.96       | 1000.0          | 9.000           | L1   | ON     |
| 0.854250        | 31.75            | ---             | 56.00        | 24.25       | 1000.0          | 9.000           | L1   | ON     |
| 2.001750        | ---              | 28.23           | 46.00        | 17.78       | 1000.0          | 9.000           | L1   | ON     |
| 2.026500        | 32.97            | ---             | 56.00        | 23.03       | 1000.0          | 9.000           | L1   | ON     |
| 2.366250        | ---              | 27.64           | 46.00        | 18.36       | 1000.0          | 9.000           | L1   | ON     |
| 2.366250        | 32.48            | ---             | 56.00        | 23.52       | 1000.0          | 9.000           | L1   | ON     |
| 4.209000        | ---              | 27.95           | 46.00        | 18.05       | 1000.0          | 9.000           | L1   | ON     |
| 4.231500        | 32.67            | ---             | 56.00        | 23.33       | 1000.0          | 9.000           | L1   | ON     |
| 10.502250       | 30.91            | ---             | 60.00        | 29.09       | 1000.0          | 9.000           | N    | ON     |
| 10.574250       | ---              | 26.21           | 50.00        | 23.79       | 1000.0          | 9.000           | N    | ON     |
| 12.165000       | 36.20            | ---             | 60.00        | 23.80       | 1000.0          | 9.000           | N    | ON     |
| 12.187500       | ---              | 31.38           | 50.00        | 18.62       | 1000.0          | 9.000           | N    | ON     |
| 20.193000       | 30.54            | ---             | 60.00        | 29.46       | 1000.0          | 9.000           | N    | ON     |
| 24.519750       | ---              | 34.19           | 50.00        | 15.81       | 1000.0          | 9.000           | N    | ON     |
| 24.614250       | 38.89            | ---             | 60.00        | 21.11       | 1000.0          | 9.000           | N    | ON     |

## 4.2 Test Results – Radiated Emissions (Unintentional Transmitter)

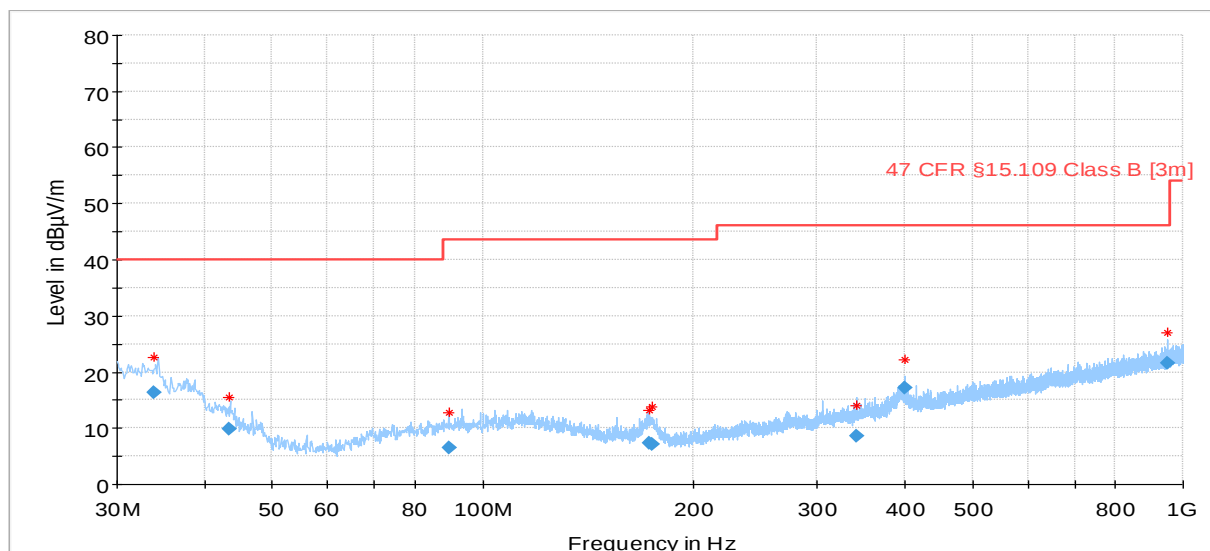
### 4.2.1 Radiated Emissions (Unintentional) – Test Summary

| <b>Test Specification</b>                     | FCC 47 CFR 15.109 (Part 15 Subpart B)       |                         |
|-----------------------------------------------|---------------------------------------------|-------------------------|
| <b>Test Engineer &amp; Date</b>               | Niall Forrester                             | 2023.01.10 – 2023.02.28 |
| <b>EUT and Ancillary Equipment IDs</b>        | A003368431-004                              |                         |
| <b>EUT Operation Mode(s)</b>                  | Mic – No Chg – No Tx / Kit - Charge - No Tx |                         |
| <b>EUT Wireless Configuration(s)</b>          | Receive Only (No Tx)                        |                         |
| <b>EUT Hardware Configuration(s)</b>          | Stand-alone (Stellar Mic) / Full Kit        |                         |
| <b>Overall Result</b>                         | PASS                                        |                         |
| <b>Test Parameter</b>                         | <b>Frequency Range</b>                      | <b>Result*</b>          |
| Radiated Emissions - Idle Mode<br>Stand-alone | 30 MHz – 1 GHz                              | PASS                    |
| Radiated Emissions - Idle Mode<br>Stand-alone | 1 GHz – 18 GHz                              | PASS                    |
| Radiated Emissions - Idle Mode<br>Full Kit    | 30 MHz – 1 GHz                              | PASS                    |
| Radiated Emissions - Idle Mode<br>Full Kit    | 1 GHz – 18 GHz                              | PASS                    |

\* For detailed measurements, see tables and graphs in sections below

#### 4.2.2 Radiated Emissions (Unintentional) – Test Details: Stand-alone 30MHz – 1GHz

|                     |                              |                  |
|---------------------|------------------------------|------------------|
| Test mode condition | Idle mode                    |                  |
| Antenna orientation | Horizontal and Vertical      |                  |
| Sweep frequency     | 30 MHz – 1 GHz               |                  |
| Standard            | 47 CFR FCC Part 15 subpart B |                  |
| EUT                 | A003368431-004               |                  |
| Ancillary Equipment | N/A                          |                  |
| Test Engineer       | Niall Forrester              | Date: 2023.01.10 |
| Chamber details     | Chamber: SAC 5               |                  |

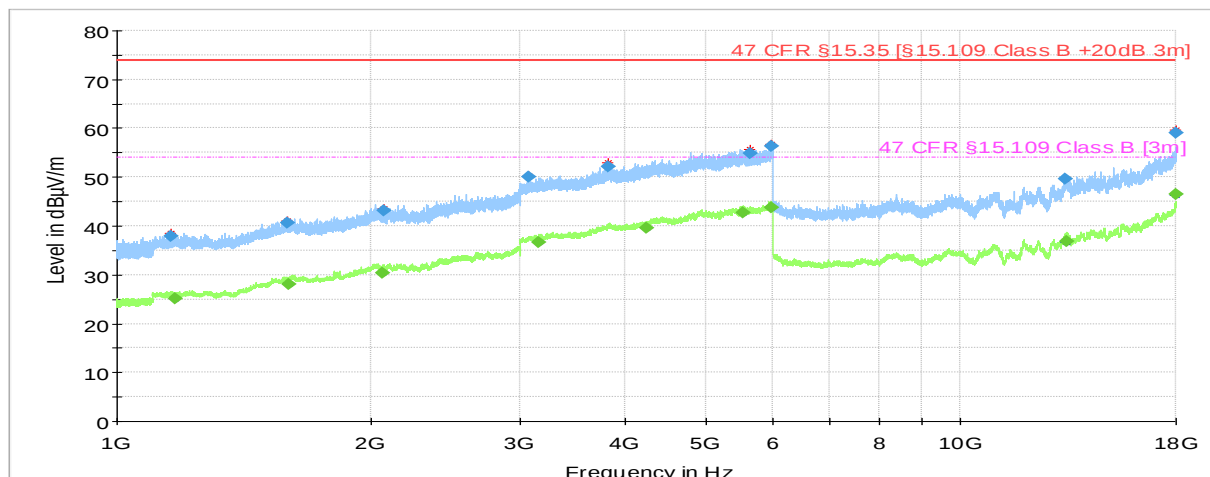


— Preview Result 2-AVG  
— Preview Result 1-PK+  
— 47 CFR §15.109 Class B [3m]  
◆ Final\_Result AVG  
◆ Final\_Result QPK

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|
| 33.804120       | 16.41              | 40.00          | 23.59       | 1000.0          | 120.000         | 175.0       | V   | 53.0          |
| 43.397960       | 9.77               | 40.00          | 30.23       | 1000.0          | 120.000         | 125.0       | H   | 233.0         |
| 89.663480       | 6.54               | 43.52          | 36.98       | 1000.0          | 120.000         | 158.0       | V   | 252.0         |
| 172.521840      | 7.37               | 43.52          | 36.15       | 1000.0          | 120.000         | 308.0       | H   | 87.0          |
| 174.659000      | 7.20               | 43.52          | 36.32       | 1000.0          | 120.000         | 225.0       | H   | 248.0         |
| 341.414320      | 8.66               | 46.02          | 37.37       | 1000.0          | 120.000         | 229.0       | H   | 41.0          |
| 399.976720      | 17.15              | 46.02          | 28.87       | 1000.0          | 120.000         | 207.0       | V   | 177.0         |
| 951.451520      | 21.62              | 46.02          | 24.40       | 1000.0          | 120.000         | 179.0       | V   | 202.0         |

1GHz – 18GHz

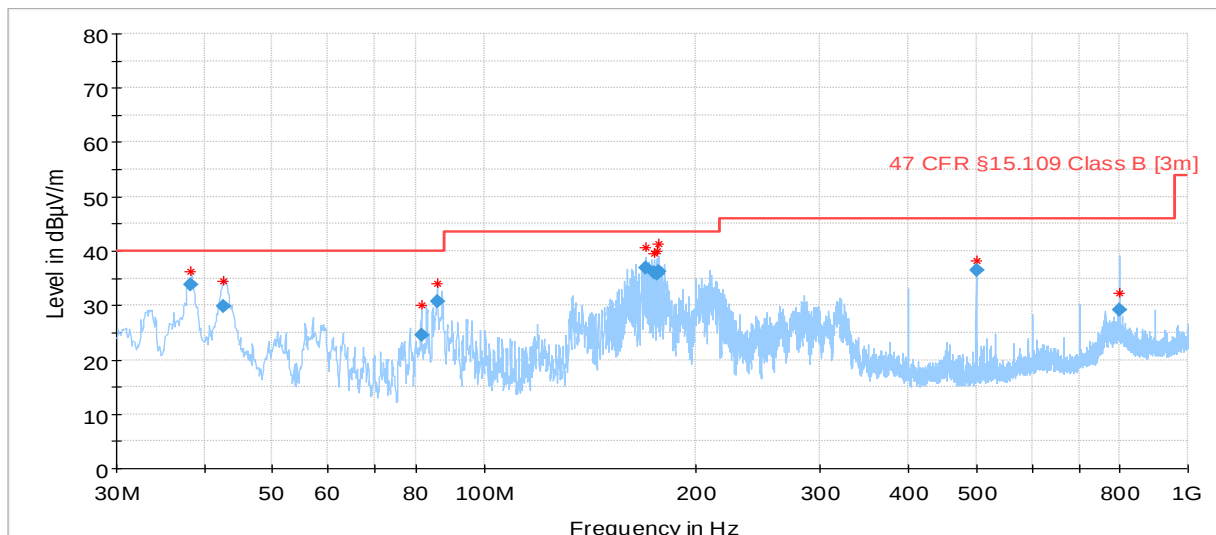
|                     |                              |                  |
|---------------------|------------------------------|------------------|
| Test mode condition | Idle mode                    |                  |
| Antenna orientation | Horizontal and Vertical      |                  |
| Sweep frequency     | 1 GHz – 18 GHz               |                  |
| Standard            | 47 CFR FCC Part 15 subpart B |                  |
| EUT                 | A003368431-003               |                  |
| Ancillary Equipment | N/A                          |                  |
| Test Engineer       | Niall Forrester              | Date: 2023.01.19 |
| Chamber details     | Chamber: SAC 5               |                  |



| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|
| 1160.349000     | 37.85            | ---              | 73.98          | 36.13       | 1000.0          | 1000.000        | 165.0       | V   | 172.0         |
| 1170.791000     | ---              | 25.16            | 53.98          | 28.82       | 1000.0          | 1000.000        | 315.0       | H   | 142.0         |
| 1593.241000     | 40.59            | ---              | 73.98          | 33.39       | 1000.0          | 1000.000        | 104.0       | H   | 142.0         |
| 1598.924000     | ---              | 27.99            | 53.98          | 25.99       | 1000.0          | 1000.000        | 365.0       | V   | 278.0         |
| 2063.080000     | ---              | 30.34            | 53.98          | 23.64       | 1000.0          | 1000.000        | 289.0       | H   | 8.0           |
| 2072.174000     | 43.22            | ---              | 73.98          | 30.76       | 1000.0          | 1000.000        | 265.0       | H   | -4.0          |
| 3079.361000     | 49.96            | ---              | 73.98          | 24.02       | 1000.0          | 1000.000        | 315.0       | H   | 188.0         |
| 3165.477000     | ---              | 36.56            | 53.98          | 17.42       | 1000.0          | 1000.000        | 239.0       | H   | 278.0         |
| 3820.872000     | 52.09            | ---              | 73.98          | 21.89       | 1000.0          | 1000.000        | 265.0       | H   | 132.0         |
| 4243.988000     | ---              | 39.65            | 53.98          | 14.33       | 1000.0          | 1000.000        | 165.0       | V   | 8.0           |
| 5531.462000     | ---              | 42.71            | 53.98          | 11.27       | 1000.0          | 1000.000        | 410.0       | H   | 142.0         |
| 5622.859000     | 54.94            | ---              | 73.98          | 19.04       | 1000.0          | 1000.000        | 239.0       | V   | 98.0          |
| 5964.249000     | 56.31            | ---              | 73.98          | 17.67       | 1000.0          | 1000.000        | 215.0       | V   | 132.0         |
| 5976.248000     | ---              | 43.84            | 53.98          | 10.14       | 1000.0          | 1000.000        | 100.0       | H   | -4.0          |
| 13313.154000    | 49.60            | ---              | 73.98          | 24.38       | 1000.0          | 1000.000        | 410.0       | H   | 176.0         |
| 13355.636000    | ---              | 36.91            | 53.98          | 17.07       | 1000.0          | 1000.000        | 410.0       | V   | 308.0         |
| 17980.932000    | ---              | 46.48            | 53.98          | 7.50        | 1000.0          | 1000.000        | 410.0       | H   | 232.0         |
| 17989.413000    | 59.13            | ---              | 73.98          | 14.85       | 1000.0          | 1000.000        | 315.0       | V   | 188.0         |

#### 4.2.3 Radiated Emissions (Unintentional) – Test Details: Full Kit 30MHz – 1GHz

|                     |                                                                          |                  |
|---------------------|--------------------------------------------------------------------------|------------------|
| Test mode condition | Idle mode                                                                |                  |
| Antenna orientation | Horizontal and Vertical                                                  |                  |
| Sweep frequency     | 30 MHz – 1 GHz                                                           |                  |
| Standard            | 47 CFR FCC Part 15 subpart B                                             |                  |
| EUT                 | A003419822-002                                                           |                  |
| Ancillary Equipment | A003421467-001, A003414830-001<br>A003419822-003/004/005, A003389898-003 |                  |
| Test Engineer       | Sam Ebadeh                                                               | Date: 2023.02.27 |
| Chamber details     | Chamber: SAC 5                                                           |                  |

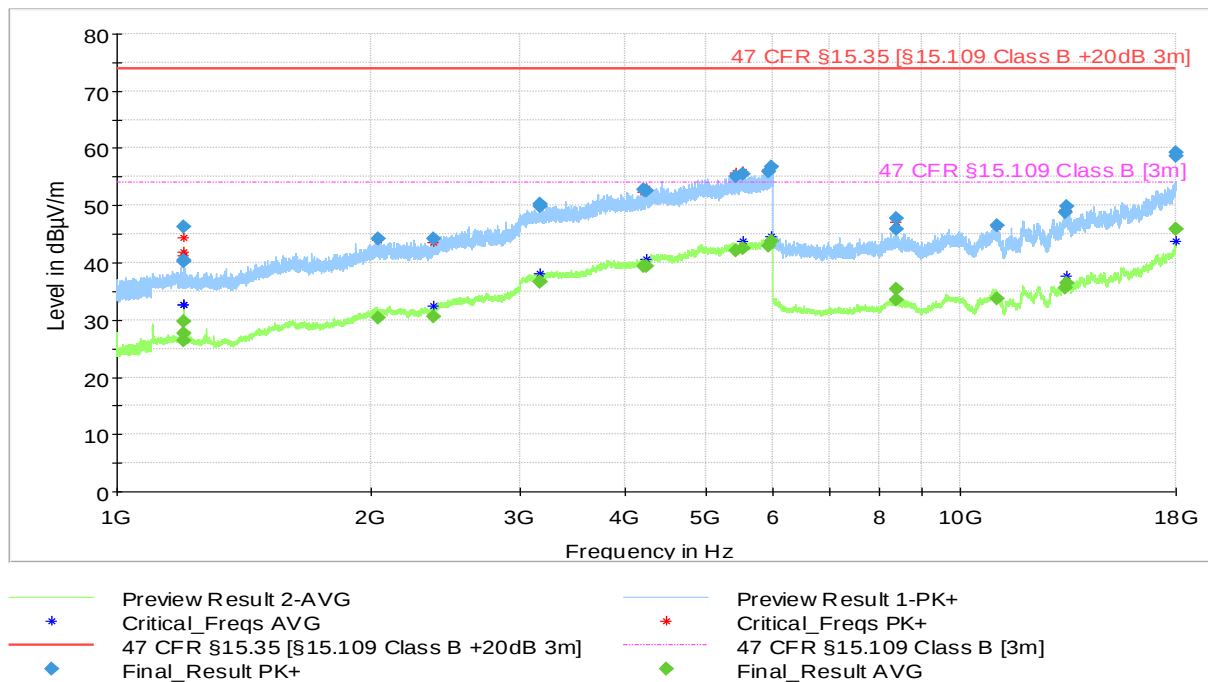


|                                                                |                                                           |
|----------------------------------------------------------------|-----------------------------------------------------------|
| <span style="color: green;">—</span> Preview Result 2-AVG      | <span style="color: blue;">—</span> Preview Result 1-PK+  |
| <span style="color: blue;">*</span> Critical_Freqs AVG         | <span style="color: red;">*</span> Critical_Freqs PK+     |
| <span style="color: red;">—</span> 47 CFR §15.109 Class B [3m] | <span style="color: blue;">◆</span> Final_Result QPK      |
| <span style="color: green;">◆</span> Final_Result AVG          | <span style="color: red;">x</span> MaxPeak-PK+ (Single)   |
| <span style="color: blue;">+</span> QuasiPeak-QPK (Single)     | <span style="color: green;">x</span> Average-AVG (Single) |

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|
| 38.185160       | 33.79              | 40.00          | 6.21        | 1000.0          | 120.000         | 100.0       | V   | 248.0         |
| 42.668080       | 29.90              | 40.00          | 10.10       | 1000.0          | 120.000         | 100.0       | V   | -18.0         |
| 81.380960       | 24.55              | 40.00          | 15.45       | 1000.0          | 120.000         | 225.0       | H   | 22.0          |
| 85.903120       | 30.65              | 40.00          | 9.35        | 1000.0          | 120.000         | 225.0       | V   | 68.0          |
| 169.970720      | 36.95              | 43.52          | 6.57        | 1000.0          | 120.000         | 179.0       | H   | 87.0          |
| 174.346640      | 36.07              | 43.52          | 7.45        | 1000.0          | 120.000         | 225.0       | H   | 87.0          |
| 175.766960      | 35.83              | 43.52          | 7.69        | 1000.0          | 120.000         | 175.0       | H   | 87.0          |
| 177.215760      | 36.16              | 43.52          | 7.36        | 1000.0          | 120.000         | 225.0       | H   | 72.0          |
| 500.006520      | 36.42              | 46.02          | 9.60        | 1000.0          | 120.000         | 100.0       | V   | 158.0         |
| 799.993920      | 29.08              | 46.02          | 16.94       | 1000.0          | 120.000         | 129.0       | V   | 158.0         |

1GHz – 18GHz

|                     |                                                                          |                  |
|---------------------|--------------------------------------------------------------------------|------------------|
| Test mode condition | Idle mode                                                                |                  |
| Antenna orientation | Horizontal and Vertical                                                  |                  |
| Sweep frequency     | 1 GHz – 18 GHz                                                           |                  |
| Standard            | 47 CFR FCC Part 15 subpart B                                             |                  |
| EUT                 | A003419822-002                                                           |                  |
| Ancillary Equipment | A003421467-001, A003414830-001<br>A003419822-003/004/005, A003389898-003 |                  |
| Test Engineer       | Niall Forrester                                                          | Date: 2023.02.28 |
| Chamber details     | Chamber: SAC 5                                                           |                  |



| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|
| 1199.344000     | 40.23            | ---              | 73.98          | 33.75       | 1000.0          | 1000.000        | 410.0       | V   | 128.0         |
| 1199.344000     | ---              | 26.39            | 53.98          | 27.59       | 1000.0          | 1000.000        | 410.0       | V   | 128.0         |
| 1200.187000     | ---              | 29.72            | 53.98          | 24.26       | 1000.0          | 1000.000        | 189.0       | V   | 132.0         |
| 1200.187000     | 46.34            | ---              | 73.98          | 27.64       | 1000.0          | 1000.000        | 189.0       | V   | 132.0         |
| 1200.544000     | 40.41            | ---              | 73.98          | 33.57       | 1000.0          | 1000.000        | 389.0       | V   | 142.0         |
| 1200.544000     | ---              | 27.63            | 53.98          | 26.35       | 1000.0          | 1000.000        | 389.0       | V   | 142.0         |
| 2043.773000     | ---              | 30.28            | 53.98          | 23.70       | 1000.0          | 1000.000        | 165.0       | V   | 86.0          |
| 2043.773000     | 44.12            | ---              | 73.98          | 29.86       | 1000.0          | 1000.000        | 165.0       | V   | 86.0          |
| 2370.540000     | ---              | 30.52            | 53.98          | 23.46       | 1000.0          | 1000.000        | 104.0       | V   | -4.0          |
| 2370.540000     | 44.19            | ---              | 73.98          | 29.79       | 1000.0          | 1000.000        | 104.0       | V   | -4.0          |
| 3175.072000     | ---              | 36.64            | 53.98          | 17.34       | 1000.0          | 1000.000        | 365.0       | H   | 8.0           |
| 3175.072000     | 49.81            | ---              | 73.98          | 24.17       | 1000.0          | 1000.000        | 365.0       | H   | 8.0           |
| 3177.170000     | ---              | 36.64            | 53.98          | 17.34       | 1000.0          | 1000.000        | 289.0       | H   | 218.0         |
| 3177.170000     | 50.25            | ---              | 73.98          | 23.73       | 1000.0          | 1000.000        | 289.0       | H   | 218.0         |
| 4210.840000     | ---              | 39.28            | 53.98          | 14.70       | 1000.0          | 1000.000        | 104.0       | V   | 188.0         |
| 4210.840000     | 52.80            | ---              | 73.98          | 21.17       | 1000.0          | 1000.000        | 104.0       | V   | 188.0         |
| 4240.358000     | 52.58            | ---              | 73.98          | 21.40       | 1000.0          | 1000.000        | 135.0       | V   | 86.0          |
| 4240.358000     | ---              | 39.45            | 53.98          | 14.53       | 1000.0          | 1000.000        | 135.0       | V   | 86.0          |
| 5414.342000     | 55.05            | ---              | 73.98          | 18.93       | 1000.0          | 1000.000        | 215.0       | H   | 232.0         |
| 5414.342000     | ---              | 42.14            | 53.98          | 11.84       | 1000.0          | 1000.000        | 215.0       | H   | 232.0         |
| 5530.142000     | ---              | 42.57            | 53.98          | 11.41       | 1000.0          | 1000.000        | 185.0       | H   | 218.0         |
| 5530.142000     | 55.51            | ---              | 73.98          | 18.47       | 1000.0          | 1000.000        | 185.0       | H   | 218.0         |
| 5927.333000     | ---              | 42.86            | 53.98          | 11.11       | 1000.0          | 1000.000        | 100.0       | V   | 222.0         |
| 5927.333000     | 55.88            | ---              | 73.98          | 18.10       | 1000.0          | 1000.000        | 100.0       | V   | 222.0         |
| 5977.604000     | ---              | 43.69            | 53.98          | 10.29       | 1000.0          | 1000.000        | 100.0       | H   | 262.0         |
| 5977.604000     | 56.74            | ---              | 73.98          | 17.24       | 1000.0          | 1000.000        | 100.0       | H   | 262.0         |
| 8399.869000     | ---              | 35.33            | 53.98          | 18.65       | 1000.0          | 1000.000        | 185.0       | V   | 86.0          |
| 8399.869000     | 47.71            | ---              | 73.98          | 26.27       | 1000.0          | 1000.000        | 185.0       | V   | 86.0          |
| 8400.018000     | ---              | 33.43            | 53.98          | 20.55       | 1000.0          | 1000.000        | 285.0       | V   | 266.0         |
| 8400.018000     | 45.92            | ---              | 73.98          | 28.06       | 1000.0          | 1000.000        | 285.0       | V   | 266.0         |
| 11050.953000    | ---              | 33.66            | 53.98          | 20.32       | 1000.0          | 1000.000        | 285.0       | V   | 176.0         |
| 11050.953000    | 46.51            | ---              | 73.98          | 27.47       | 1000.0          | 1000.000        | 285.0       | V   | 176.0         |
| 13313.681000    | 48.89            | ---              | 73.98          | 25.08       | 1000.0          | 1000.000        | 385.0       | H   | 98.0          |
| 13313.681000    | ---              | 35.66            | 53.98          | 18.32       | 1000.0          | 1000.000        | 385.0       | H   | 98.0          |
| 13336.953000    | 49.95            | ---              | 73.98          | 24.03       | 1000.0          | 1000.000        | 285.0       | H   | 218.0         |
| 13336.953000    | ---              | 36.42            | 53.98          | 17.56       | 1000.0          | 1000.000        | 285.0       | H   | 218.0         |
| 17967.705000    | 58.59            | ---              | 73.98          | 15.39       | 1000.0          | 1000.000        | 365.0       | H   | 232.0         |
| 17967.705000    | ---              | 45.87            | 53.98          | 8.11        | 1000.0          | 1000.000        | 365.0       | H   | 232.0         |
| 17995.359000    | 59.24            | ---              | 73.98          | 14.73       | 1000.0          | 1000.000        | 285.0       | V   | 308.0         |
| 17995.359000    | ---              | 45.96            | 53.98          | 8.02        | 1000.0          | 1000.000        | 285.0       | V   | 308.0         |

## 5. TEST EQUIPMENT STATUS

### 5.1 List of Hardware with Calibration Dates

#### 5.1.1 Hardware List – Conducted Emissions System

| Type                          | Manufacturer    | Model   | Serial Number / ID           | Calibration Date | Calibration Due |
|-------------------------------|-----------------|---------|------------------------------|------------------|-----------------|
| Two-Line V-network            | Rohde & Schwarz | ENV216  | 101090<br>2704076            | 2022.07.14       | 2023.07.14      |
| Test Receiver 9KHz to 3.5 GHz | Rohde & Schwarz | ESR3    | 101674<br>2704016            | 2022.08.19       | 2023.08.19      |
| Humidity Temperature Probe    | Lufft           | OPUS 20 | 146.0216.0802.030<br>2703980 | 2022.07.27       | 2024.07.27      |

#### 5.1.2 Hardware List – SAC5 System

| Type                                 | Manufacturer    | Model                | Serial Number / ID           | Calibration Date | Calibration Due |
|--------------------------------------|-----------------|----------------------|------------------------------|------------------|-----------------|
| EMI Test Receiver                    | Rohde & Schwarz | ESW44                | 101760<br>2881044            | 2022.07.21       | 2023.07.21      |
| Ultra Broadband Antenna              | Rohde & Schwarz | HL562E               | 100988<br>2823181            | 2021.07.26       | 2023.07.26      |
| Double Ridged Waveguide Horn Antenna | Rohde & Schwarz | HF907                | 102678<br>2823164            | 2021.07.26       | 2023.07.26      |
| Control Device                       | Maturo          | NCD                  | NCD/393/2372.01<br>2884216   | N/A              | N/A             |
| Open Switch & Control Unit           | Rohde & Schwarz | OSP150               | 100081<br>2884198            | 2022.08.01       | 2023.08.01      |
| Open Switch & Control Unit           | Rohde & Schwarz | OSP120               | 100084<br>2761253            | 2022.08.01       | 2023.08.01      |
| Shielded Filter Unit                 | Rohde & Schwarz | OSP-F<br>Extension 1 | 101333<br>2761265            | 2022.08.01       | 2023.08.01      |
| Shielded Filter Unit                 | Rohde & Schwarz | OSP-F<br>Extension 2 | 101335<br>2761266            | 2022.08.01       | 2023.08.01      |
| Shielded Filter Unit                 | Rohde & Schwarz | OSP-F<br>Base Unit   | 101330<br>2761262            | 2022.08.01       | 2023.08.01      |
| Humidity Temperature Probe           | Lufft           | OPUS 20              | 146.0216.0802.030<br>2703980 | 2022.07.27       | 2024.07.27      |

## 5.2 Software / Firmware Versions

| Equipment                  | Software / Firmware Name | Version   |
|----------------------------|--------------------------|-----------|
| Conducted Emissions System | EMC 32                   | V10.60.20 |
| SAC 5                      | EMC 32                   | V10.60.20 |

## 6. MEASUREMENT UNCERTAINTY

### 6.1 Measurement Uncertainty for Conducted Emissions

| Parameter                                      | Uncertainty (Coverage Factor k=2) |
|------------------------------------------------|-----------------------------------|
| Conducted emissions with LISN 150KHz to 30 MHz | 2.98 dB                           |

### 6.2 Measurement Uncertainty for SAC 5 (Radiated Emissions & Band Edge)

| Parameter                       | Uncertainty (Coverage Factor k=2) |
|---------------------------------|-----------------------------------|
| Field Strength 10 Hz -9 kHz     | 3.38 dB                           |
| Field Strength 9 kHz -30 MHz    | 3.38 dB                           |
| Field Strength 30 MHz -1000 MHz | 3.38 dB                           |
| Field Strength 1 GHz -18 GHz    | 4.88 dB                           |
| Field Strength 18 GHz - 40 GHz  | 5.14 dB                           |

## 7. PHOTOGRAPHS

See Appendix 1 for photographs