

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT

Test Report No. : OT-222-RED-062
Reception No. : 2202000517
Applicant : LG Electronics USA, Inc.
Address : 111 Sylvan Ave, North Building, Englewood Cliffs, New Jersey, 07632, United States
Manufacturer : LG Electronics Inc.
Address : 222 LG-ro Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea
Type of Equipment : Bluetooth Earbud (Cradle)
Model Names : TONE-FP7P
Multiple Model Name : TONE-TFP7P, TONE-TFP7WP, TONE-FP7PWP, TONE-FP7CP, TONE-FP7WCP
Serial number : N/A
Total page of Report : 27 pages (including this page)
Date of Incoming : February 14, 2022
Test Period : February 15, 2022 ~ February 16, 2022
Date of Issuing : February 21, 2022

SUMMARY

The equipment complies with the requirement of

FCC CFR 47 PART 15 SUBPART B, Section 15.101 and IC ICES-003 Issue 7

This test report contains only the results of a single test of the sample supplied for the examination.

Reviewed by:



Seung-Hyun, Park / Senior Manager
EMC Testing Div.
ONETECH Corp.

Approved by:



Gea-Won, Lee / Exe. Managing Director
EMC Testing Div.
ONETECH Corp.

CONTENTS

Page

| | |
|--|-----------|
| 1. VERIFICATION OF COMPLIANCE | 4 |
| 2. TEST FACILITY | 5 |
| 3. PRODUCT INFORMATION | 6 |
| 3.1 DESCRIPTION OF EUT | 6 |
| 3.2 MODEL DIFFERENCES | 6 |
| 3.3 SUPPORT EQUIPMENT | 7 |
| 3.4 SYSTEM CONFIGURATION | 7 |
| 3.5 CABLE DESCRIPTION FOR THE EUT | 7 |
| 3.6 EQUIPMENT MODIFICATIONS | 7 |
| 3.7 INFORMATION OF MEASUREMENT SOFTWARE | 7 |
| 4. DESCRIPTION OF TESTS | 8 |
| 4.1 TEST METHODOLOGY | 8 |
| 4.2 TEST CONDITION | 8 |
| 4.3 CONDUCTED EMISSION | 9 |
| 4.4 RADIATED EMISSION | 9 |
| 5. FINAL RESULT OF MEASUREMENT | 10 |
| 5.1 CONDUCTED EMISSION TEST | 10 |
| 5.1.1 Operating Environment | 10 |
| 5.1.2 Test Setup | 10 |
| 5.1.3 Measurement uncertainty | 10 |
| 5.1.4 Limit | 10 |
| 5.1.5 Test Equipment used | 10 |
| 5.1.6 Test Data | 11 |
| 5.2 RADIATED EMISSION TEST | 13 |
| 5.2.1 Operating Environment | 13 |
| 5.2.2 Test Setup | 13 |
| 5.2.3 Measurement uncertainty | 13 |
| 5.2.4 Limit | 13 |
| 5.2.5 Test Equipment used | 14 |
| 5.2.6 Test Data | 15 |
| 6. SAMPLE CALCULATIONS | 27 |

Revision History

| Rev. No. | Issued Report No. | Issued Date | Revisions | Section Affected |
|----------|-------------------|-------------------|---------------|------------------|
| 0 | OT-222-RED-062 | February 21, 2022 | Initial Issue | All |
| | | | | |
| | | | | |

1. VERIFICATION OF COMPLIANCE

- . Applicant : LG Electronics USA, Inc.
- . Address : 111 Sylvan Ave, North Building, Englewood Cliffs, New Jersey, 07632, United States
- . Manufacturer : LG Electronics Inc.
- . Address : 222 LG-ro Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea
- . Factory : BLUECOM
- . Address : C5-4, Area CN1, Trang Due Industrial Park, An Duong District, Haiphong City, Vietnam
- . MODEL NAME : TONE-FP7P
- . SERIAL NUMBER : N/A
- . BRAND/TRADE NAME : LG
- . DATE : February 21, 2022

| | |
|--|---|
| EQUIPMENT CLASS | Other Class B digital devices & peripherals |
| E.U.T. DESCRIPTION | Bluetooth Earbud (Cradle) |
| MEASUREMENT PROCEDURES | Original Grant |
| TYPE OF EQUIPMENT TESTED | ANSI C63.4a: 2017 and ICES-003 ISSUE 7 |
| KIND OF EQUIPMENT AUTHORIZATION REQUESTED | Supplier's Declaration of Conformity (SDoC) |
| STANDARDS | FCC PART 15 (Class B) ICES-003 ISSUE 7 Class B Apparatus |
| MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE | None |
| FINAL TEST WAS CONDUCTED ON | 10 m Semi anechoic chamber |

ONETECH Corp. tested the above equipment in accordance with the requirements set forth in the above standard. The test results show that equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

2. TEST FACILITY

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025 by Radio Research Agency as accreditation body. The Onetech Corp. is accredited for measuring devices subject to Declaration of Conformity (DOC) under Parts 15 & 18 as a Conformity Assessment Body (CAB) with designation number KR0013.

These measurement tests were conducted at Onetech Corp.

The 10 m semi anechoic chamber and conducted measurement facilities are located at

- 1) 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.
- 2) 12-5, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.



Onetech Corp.

43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea

Tel: +82-31-799-9500

Fax: +82-31-799-9599

3. PRODUCT INFORMATION

3.1 Description of EUT

The LG Electronics USA, Inc., Model TONE-FP7P (referred to as the EUT in this report) is a Bluetooth Earbud (Cradle). Product specification described herein was obtained from product data sheet or user’s manual.

| | |
|---|--|
| CHASSIS TYPE | Plastic |
| LIST OF EACH OSC. or CRY. FREQ. (FREQ. >= 1 MHz) | 40 MHz |
| RF FREQ. | 2 402 MHz ~ 2 480 MHz |
| ELECTRICAL RATING | Charging case: DC 5 V, 500 mA Lithium ion battery of cradle: 3.7 Vdc, 390 mAh |
| NUMBER OF PCB LAYERS | - |
| EXTERNAL CONNECTOR | Charging case : Charging terminals, Charge port(USB Type C) |
| Temperature Range | 0 °C ~ 40 °C |

3.2 Model Differences

-. The following lists consist of the added model and their differences.

| Model Name | Differences | Tested |
|-------------|--|-------------------------------------|
| TONE-FP7P | Basic Model (Global) | <input checked="" type="checkbox"/> |
| TONE-TFP7P | This model is identical to the basic model except for the Marketing area (Korea) | <input type="checkbox"/> |
| TONE-TFP7WP | This model is identical to the basic model except for the Marketing area (Korea) and Color (White). | <input type="checkbox"/> |
| TONE-FP7PWP | This model is identical to the basic model except for the Color (White). | <input type="checkbox"/> |
| TONE-FP7CP | This model is identical to the basic model except for the Marketing purpose (Customer only). | <input type="checkbox"/> |
| TONE-FP7WCP | This model is identical to the basic model except for the Marketing purpose (Customer only) and Color (White). | <input type="checkbox"/> |

Note: 1. Applicant consigns only basic model to test. Therefore, this test report just guarantees the units, which have been tested.

2. The Applicant/manufacturer is responsible for the compliance of all variants.

3.3 Support Equipment

The model numbers for all the equipments that were used in the tested system is:

| Description | Model | Manufacturer | Connected to |
|---------------------------------|--------------------------|--------------------------------------|--------------|
| Bluetooth Earbud (Cradle) (EUT) | TONE-FP7P | LG Electronics Inc. | Adapter |
| Adapter | ADS-12BA-06Y 05010EPK | Shenzhen Honor Electronic Co.,Ltd | EUT |
| Bluetooth Earbud | TONE-FP7 | LG Electronics Inc. | - |
| Smartphone | LGM-G600K | LG Electronics Inc. | EUT |

3.4 System Configuration

| DEVICE TYPE | MANUFACTURER | MODEL/PART NUMBER | FCC ID |
|---------------------------|---------------------|-------------------|-------------|
| Bluetooth Earbud (Cradle) | LG Electronics Inc. | TONE-FP7P | ZNFTONEFP7P |

3.5 Cable Description for the EUT

| Cable | | Shielded | Ferrite Bead | Metal Shell | Length (m) | Connected to |
|------------------------------|-------------------------------|----------|--------------|-------------|------------|--------------|
| Bluetooth Earbud (Cradle) | Charging terminals | - | - | - | - | Earbud |
| | Charge port (USB Type C) | Y | N | N | 0.5 | Adapter |
| | * Charge port (USB Type C) | N | N | N | 0.7 | Smartphone |
| Bluetooth Earbud | Charging terminals | - | - | - | - | EUT (Cradle) |

* AUX+BT Mode

3.6 Equipment Modifications

-. None

3.7 Information of Measurement Software

| | Chamber name | Software name | Software version |
|---------------------------------------|------------------------------|---|------------------------------------|
| <input type="checkbox"/> - | Conducted Emission #1 | Noise Terminal Voltage Measurement EMC32 | 2.00.0180 |
| <input type="checkbox"/> - | Conducted Emission #2 | | 10.60.10 |
| <input checked="" type="checkbox"/> - | Conducted Emission #3 | | Noise Terminal Voltage Measurement |
| <input type="checkbox"/> - | Radiated Emission 10 m SAC 1 | Radiated Emission Measurement | 2.00.0201 |
| <input checked="" type="checkbox"/> - | Radiated Emission 10 m SAC 2 | Radiated Emission Measurement | 2.00.0202 |
| <input type="checkbox"/> - | Radiated Emission 3 m SAC | Radiated Emission Measurement | 2.00.0202 |

4. DESCRIPTION OF TESTS

4.1 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4a: 2017.

Radiated testing was performed at a distance of 3 m from EUT to the antenna.

4.2 Test Condition

The test conditions of the noted test mode(s) in this test report are;

1) Test Voltage / Frequency

- . AC 120 V / 60 Hz

2) Test Mode(s)

| Test Mode | | Operating States |
|-----------|----------|--|
| 1 | Charging | a) The USB Type C port on the EUT was connected to the adapter and then the Earbud was charging operate. |
| 2 | AUX + BT | a) The USB Type C port on the EUT was connected to the Smartphone and then the EUT was pairing the Earbud operate. |

4.3 Conducted Emission

The EUT was placed on a non-conductive 1.0 m × 1.5 m table, which is 0.8 m in height above the reference ground plane and 0.4 m away from the vertical conducting plane (over 2 m × 2 m) that is bonded to the reference ground plane.

The power of EUT is fed through a 50 Ω/ 50 μH + 5 Ω LISN and all support equipment is powered from another LISN. Powers to the LISN are filtered by high-current high insertion loss power line filter.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

The RF output of the LISN was connected to the EMI test receiver.

Exploratory measurements were conducted to identify the highest emission by operating the EUT in a range of typical modes of operation, cable positions, system configuration and arrangement.

Based on exploratory measurements, the final measurements were conducted at the worst test conditions.

Exploratory measurements were scanned using Peak mode of EMI Test receiver from 150 kHz to 30 MHz with 20 ms sweep time. The final measurements were measured with Quasi-Peak and CISPR Average mode.

The bandwidth of EMI Test Receiver was set to 9 kHz. Interface cables were connected to the available interface ports of the test unit. Excess cable lengths were bundled at center with 30 cm ~ 40 cm.

4.4 Radiated Emission

Exploratory Radiated measurements were conducted at the 3 m semi anechoic chamber in order to identify the highest emission by operating the EUT in a range of typical modes of operation, cable positions, system configuration and arrangement.

Based on exploratory measurements, the final measurements were conducted at the worst test conditions.

Final measurements were made at 10 m semi anechoic chamber that complies with CISPR 16/ ANSI C63.4a:2017/ ICES-003.

Exploratory measurements were scanned using Peak mode of EMI Test receiver and final measurements were measured with Quasi-Peak mode (Below 1 GHz) and Peak & CISPR Average mode (Above 1 GHz).

The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

5. FINAL RESULT OF MEASUREMENT

Exploratory measurement was done in normal operation mode. And the final measurement was selected for the maximized emission level.

5.1 Conducted Emission Test

5.1.1 Operating Environment

Ambient temperature : 18.4 °C
 Relative humidity : 42.7 % R.H.

5.1.2 Test Setup

The EUT and other support equipment were placed on a non-conductive table, 0.8 m height above the reference ground plane. The power of EUT was fed through a 50 Ω/ 50 μH + 5 Ω LISN. The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

5.1.3 Measurement uncertainty

Conducted emission, quasi-peak detection : ± 3.9 dB
 Conducted emission, CISPR-average detection : ± 3.9 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2. The measurement uncertainty is given with a confidence of 95 % with the coverage factor, k = 2.

5.1.4 Limit

| Frequency of Emission (MHz) | Conducted Limit (dBμV) | |
|-----------------------------|------------------------|---------------|
| | Quasi-peak | CISPR Average |
| 0.15 ~ 0.5 | 66 to 56* | 56 to 46* |
| 0.5 ~ 5 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |

* Decreases with the logarithm of the frequency

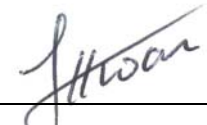
5.1.5 Test Equipment used

| Model Number | Manufacturer | Description | Serial Number | Last Cal. (Interval) |
|--------------|-----------------|-------------------|---------------|----------------------|
| ■ ESCI | Rohde & Schwarz | Test Receiver | 101420 | Mar. 23, 2021 (1Y) |
| ■ NSLK8126 | SCHWARZ BECK | LISN | 8126480 | Oct. 13, 2021 (1Y) |
| □ 3825/2 | EMCO | AMN | 9109-1867 | Mar. 22, 2021 (1Y) |
| ■ 11947A | Hewlett Packard | Transient Limiter | 3107A02762 | Mar. 22, 2021(1Y) |

All test equipment used is calibrated on a regular basis.

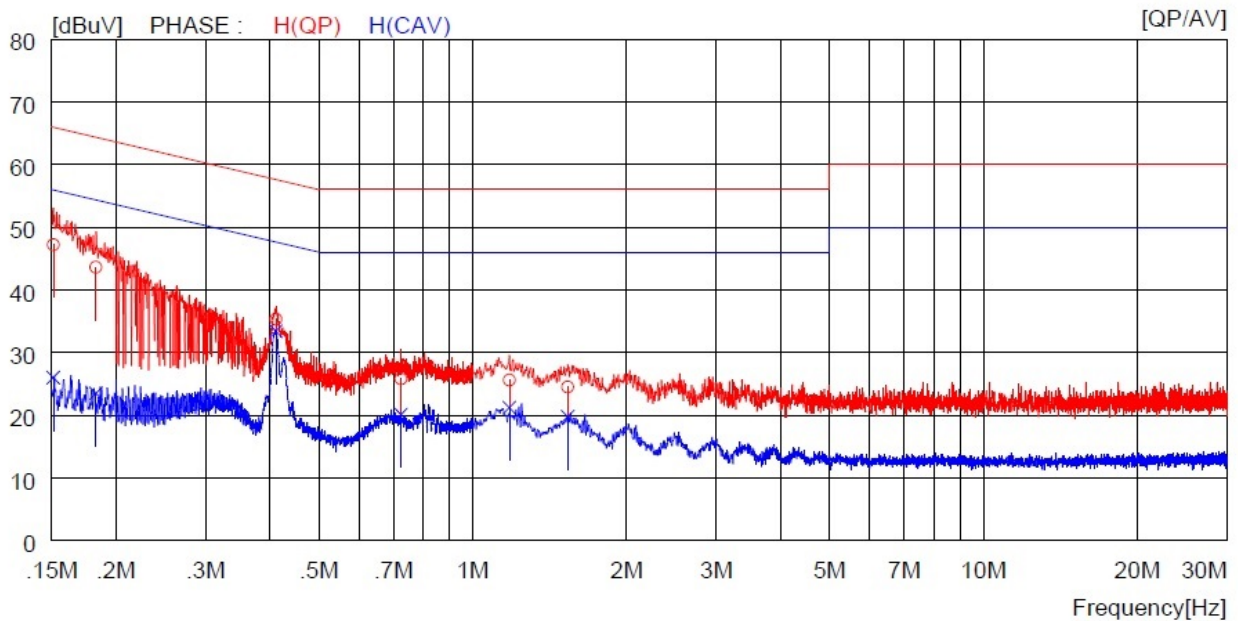
5.1.6 Test Data

- Test Result : Pass



Tested by: Ji-Hwan, Jang / Manager

| Test Mode 1 (Charging) | | | |
|------------------------|---------------------|-------------|---------------------|
| Frequency range | : 0.15 MHz ~ 30 MHz | Test Date | : February 15, 2022 |
| Resolution bandwidth | : 9 kHz | Tested Line | : HOT LINE |

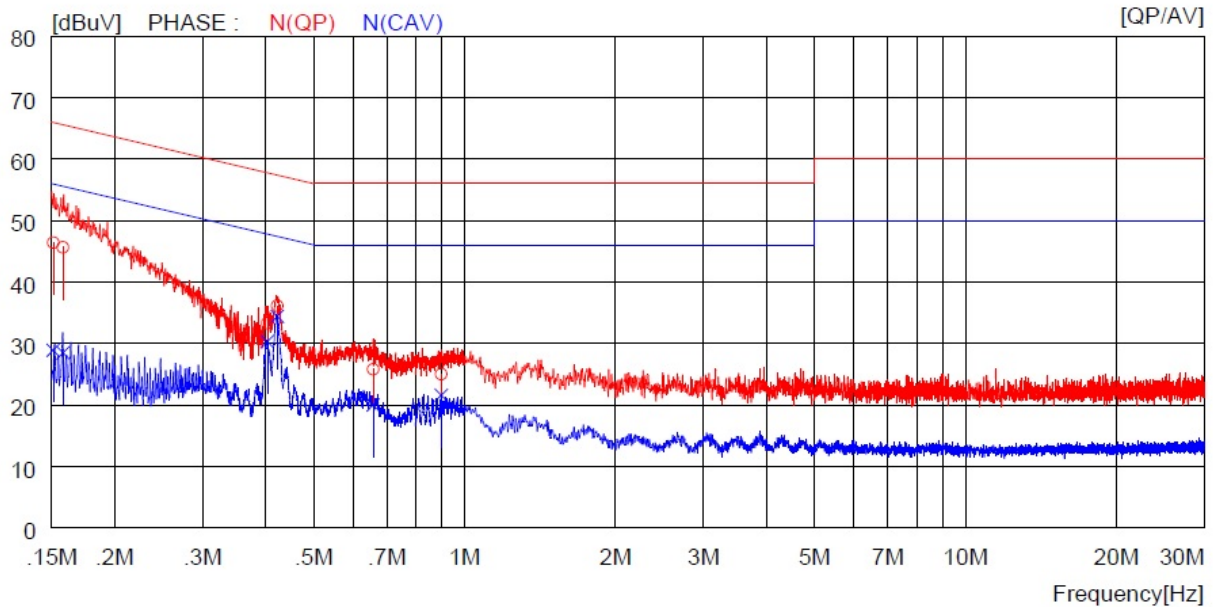


| NO | FREQ [MHz] | READING | | C. FACTOR [dB] | RESULT | | LIMIT | | MARGIN | | PHASE |
|----|---------------|--------------|--------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------|
| | | QP [dBuV] | AV [dBuV] | | QP [dBuV] | AV [dBuV] | QP [dBuV] | AV [dBuV] | QP [dBuV] | AV [dBuV] | |
| 1 | 0.15100 | 37.1 | ---- | 10.1 | 47.2 | ---- | 65.9 | ---- | 18.7 | ---- | H (QP) |
| 2 | 0.18300 | 33.5 | ---- | 10.1 | 43.6 | ---- | 64.3 | ---- | 20.7 | ---- | H (QP) |
| 3 | 0.41200 | 25.2 | ---- | 10.1 | 35.3 | ---- | 57.6 | ---- | 22.3 | ---- | H (QP) |
| 4 | 0.72400 | 15.7 | ---- | 10.1 | 25.8 | ---- | 56.0 | ---- | 30.2 | ---- | H (QP) |
| 5 | 1.18000 | 15.5 | ---- | 10.1 | 25.6 | ---- | 56.0 | ---- | 30.4 | ---- | H (QP) |
| 6 | 1.53600 | 14.4 | ---- | 10.1 | 24.5 | ---- | 56.0 | ---- | 31.5 | ---- | H (QP) |
| 7 | 0.15100 | ---- | 15.9 | 10.1 | ---- | 26.0 | ---- | 55.9 | ---- | 29.9 | H (CAV) |
| 8 | 0.18300 | ---- | 13.4 | 10.1 | ---- | 23.5 | ---- | 54.3 | ---- | 30.8 | H (CAV) |
| 9 | 0.41200 | ---- | 23.3 | 10.1 | ---- | 33.4 | ---- | 47.6 | ---- | 14.2 | H (CAV) |
| 10 | 0.72400 | ---- | 10.0 | 10.1 | ---- | 20.1 | ---- | 46.0 | ---- | 25.9 | H (CAV) |
| 11 | 1.18000 | ---- | 11.1 | 10.1 | ---- | 21.2 | ---- | 46.0 | ---- | 24.8 | H (CAV) |
| 12 | 1.53600 | ---- | 9.7 | 10.1 | ---- | 19.8 | ---- | 46.0 | ---- | 26.2 | H (CAV) |

Remark: Margin (dB) = Limit – Level (Result)

The result level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

| Test Mode 1 (Charging) | | | |
|------------------------|---------------------|-------------|---------------------|
| Frequency range | : 0.15 MHz ~ 30 MHz | Test Date | : February 15, 2022 |
| Resolution bandwidth | : 9 kHz | Tested Line | : NEUTRAL LINE |



| NO | FREQ [MHz] | READING | | C. FACTOR [dB] | RESULT | | LIMIT | | MARGIN | | PHASE |
|----|---------------|--------------|--------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|
| | | QP [dBuV] | AV [dBuV] | | QP [dBuV] | AV [dBuV] | QP [dBuV] | AV [dBuV] | QP [dBuV] | AV [dBuV] | |
| 1 | 0.15100 | 36.3 | ---- | 10.1 | 46.4 | ---- | 65.9 | ---- | 19.5 | ---- | N(QP) |
| 2 | 0.15800 | 35.5 | ---- | 10.1 | 45.6 | ---- | 65.6 | ---- | 20.0 | ---- | N(QP) |
| 3 | 0.40400 | 23.2 | ---- | 10.1 | 33.3 | ---- | 57.8 | ---- | 24.5 | ---- | N(QP) |
| 4 | 0.42300 | 26.0 | ---- | 10.1 | 36.1 | ---- | 57.4 | ---- | 21.3 | ---- | N(QP) |
| 5 | 0.65700 | 15.7 | ---- | 10.1 | 25.8 | ---- | 56.0 | ---- | 30.2 | ---- | N(QP) |
| 6 | 0.89900 | 14.9 | ---- | 10.1 | 25.0 | ---- | 56.0 | ---- | 31.0 | ---- | N(QP) |
| 7 | 0.15100 | ---- | 18.8 | 10.1 | ---- | 28.9 | ---- | 55.9 | ---- | 27.0 | N(CAV) |
| 8 | 0.15800 | ---- | 18.4 | 10.1 | ---- | 28.5 | ---- | 55.6 | ---- | 27.1 | N(CAV) |
| 9 | 0.40400 | ---- | 20.2 | 10.1 | ---- | 30.3 | ---- | 47.8 | ---- | 17.5 | N(CAV) |
| 10 | 0.42300 | ---- | 24.3 | 10.1 | ---- | 34.4 | ---- | 47.4 | ---- | 13.0 | N(CAV) |
| 11 | 0.65700 | ---- | 9.9 | 10.1 | ---- | 20.0 | ---- | 46.0 | ---- | 26.0 | N(CAV) |
| 12 | 0.89900 | ---- | 11.5 | 10.1 | ---- | 21.6 | ---- | 46.0 | ---- | 24.4 | N(CAV) |

Remark: Margin (dB) = Limit – Level (Result)

The result level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

5.2 Radiated Emission Test

5.2.1 Operating Environment

Ambient temperature : 24.9 °C
 Relative humidity : 42.3 % R.H.

5.2.2 Test Setup

The radiated emissions measurements were on the in 10 m semi anechoic chamber. The EUT and all local support equipments were placed on a non-conductive turntable approximately 0.8 m above the ground plane.

The frequency spectrum from 30 MHz to 25 000 MHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

5.2.3 Measurement uncertainty

Radiated emission electric field intensity, 30 MHz ~ 1 000 MHz : ± 4.6 dB
 Radiated emission electric field intensity, 1 GHz ~ 25 GHz : ± 6.0 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2. The measurement uncertainty is given with a confidence of 95 % with the coverage factor, $k = 2$.

5.2.4 Limit

-. FCC Part 15 Subpart B

| Frequency of Emission (MHz) | Resolution bandwidth | Field strength @ 3 m (dBμV/m) | |
|--|----------------------|-------------------------------|---------------------|
| 30 ~ 88 88 ~ 216 216 ~ 230 230 ~ 960 960 ~ 1 000 | 120 kHz | Quasi-peak | |
| | | 40.0 | |
| | | 43.5 | |
| | | 46.0 | |
| | | 46.0 | |
| > 1 000 | 1 MHz | Peak Limit | CISPR Average Limit |
| | | 74.0 | 54.0 |

-. ICES-003

| Frequency of Emission (MHz) | Resolution bandwidth | Field strength @ 3 m (dB μ V/m) | Field strength @ 10 m (dB μ V/m) |
|-----------------------------|----------------------|-------------------------------------|--------------------------------------|
| | | Quasi-peak | Quasi-peak |
| 30 ~ 88 | 120 kHz | 40.0 | 30.0 |
| 88 ~ 216 | | 43.5 | 33.1 |
| 216 ~ 230 | | 46.0 | 35.6 |
| 230 ~ 960 | | 47.0 | 37.0 |
| 960 ~ 1 000 | | 54.0 | 43.5 |
| Frequency of Emission (MHz) | Resolution bandwidth | Field strength @ 3 m (dB μ V/m) | |
| | | Peak Limit | CISPR Average Limit |
| > 1 000 | 1 MHz | 74.0 | 54.0 |

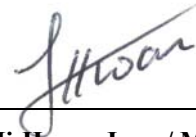
5.2.5 Test Equipment used

| Model Number | Manufacturer | Description | Serial Number | Last Cal. (Interval) |
|-----------------|--------------------|--------------------------|---------------|----------------------|
| ■ - ESW | Rohde & Schwarz | Test Receiver | 101851 | Mar. 23, 2021 (1Y) |
| ■ - VULB9163 | Schwarzbeck | Trilog Broadband Antenna | 9163-225 | Sep. 14, 2020 (2Y) |
| ■ - 3115 | ETS-LINDGREN | Horn Antenna | 34823 | Aug. 18, 2021 (1Y) |
| ■ - SAS-574 | A.H. System | Horn Antenna | 676 | Oct. 21, 2021 (1Y) |
| ■ - 8447D | Hewlett Packard | Amplifier | 2944A07777 | Mar. 15, 2021 (1Y) |
| ■ - PAM-118A | Com-Power | Amplifier | 18040081 | Oct. 12, 2021 (1Y) |
| ■ - PAM-840A | Com-Power | Amplifier | 461339 | Oct. 18, 2021 (1Y) |
| ■ - CO3000 | Innco Systems GmbH | Controller | N/A | N/A |
| ■ - DT5000 | Innco Systems GmbH | Turn Table | N/A | N/A |
| ■ - MA4000-EP | Innco Systems GmbH | Antenna Master | N/A | N/A |
| ■ - MA4640-XPET | Innco Systems GmbH | Antenna Master | N/A | N/A |

All test equipment used is calibrated on a regular basis.

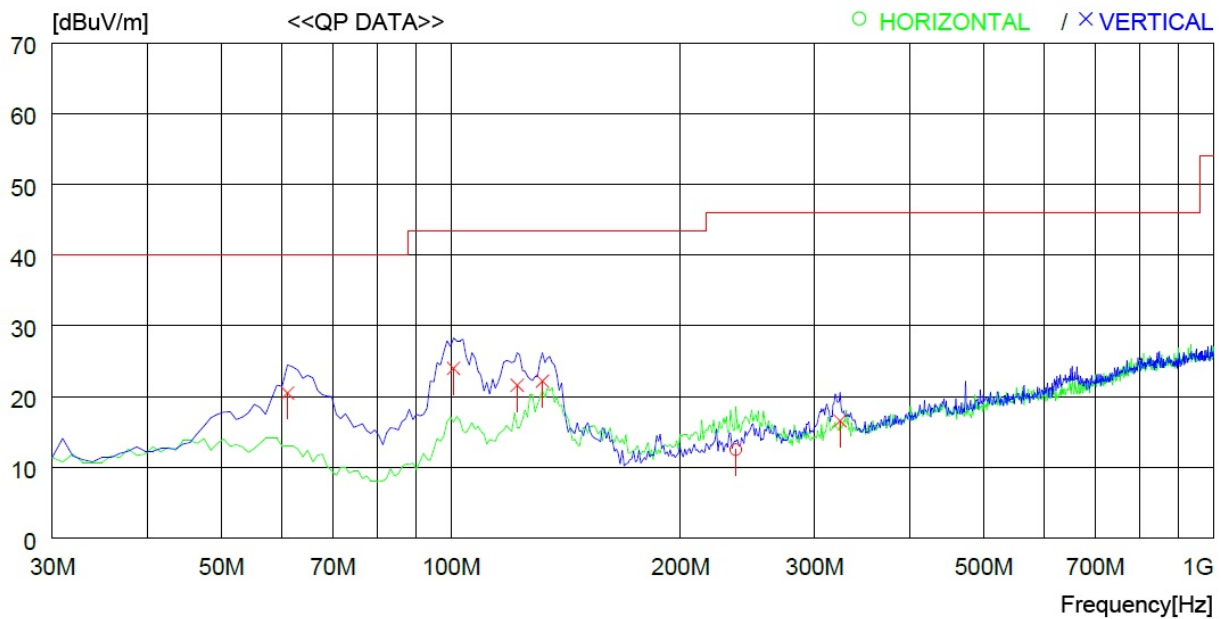
5.2.6 Test Data

- Test Result : Pass



Tested by: Ji-Hwan, Jang / Manager

| Test Mode 1 (Charging) | | | |
|------------------------|----------------------|----------------------|-------------------------|
| Frequency range | : 30 MHz ~ 1 000 MHz | Applied Standards | : FCC Part 15 Subpart B |
| Resolution bandwidth | : 120 kHz | Test Date | : February 16, 2022 |
| Detector Mode | : Quasi-Peak | Measurement distance | : 3 m |



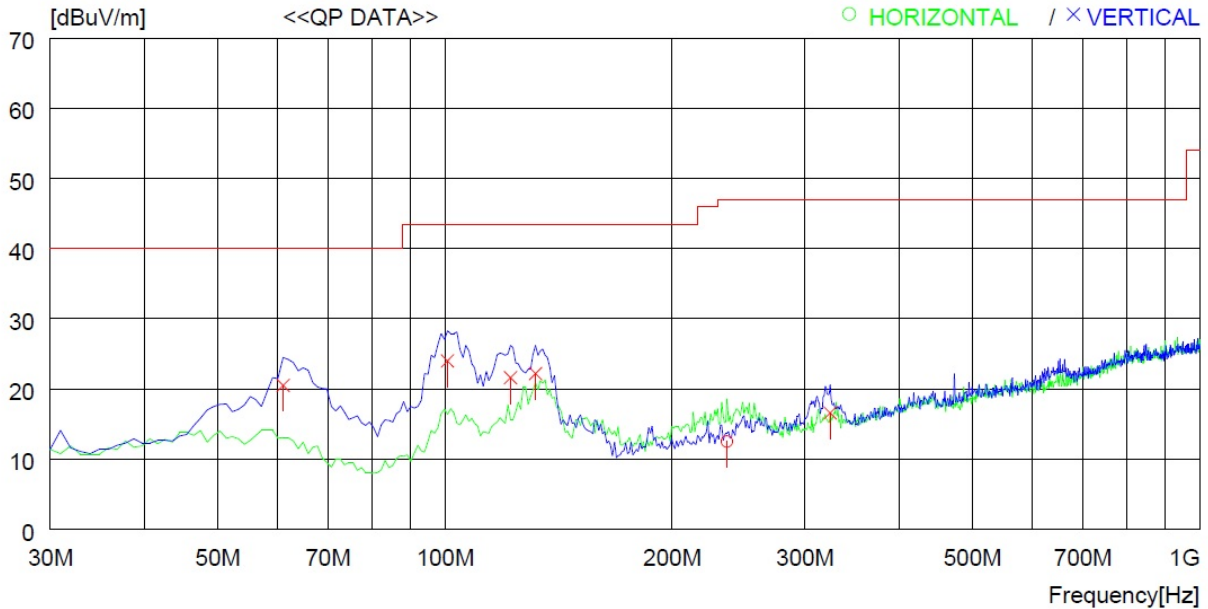
| No. | FREQ [MHz] | READING QP [dBuV] | ANT FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|------------------------|------------|-------------------|-----------------|-----------|-----------|-----------------|----------------|-------------|--------------|-------------|
| ----- Horizontal ----- | | | | | | | | | | |
| 1 | 236.610 | 23.0 | 12.1 | 5.0 | 27.6 | 12.5 | 46.0 | 33.5 | 200 | 43 |
| ----- Vertical ----- | | | | | | | | | | |
| 2 | 61.040 | 33.2 | 13.0 | 2.6 | 28.3 | 20.5 | 40.0 | 19.5 | 100 | 359 |
| 3 | 100.810 | 36.6 | 11.9 | 3.7 | 28.2 | 24.0 | 43.5 | 19.5 | 100 | 359 |
| 4 | 122.150 | 36.5 | 9.3 | 3.9 | 28.1 | 21.6 | 43.5 | 21.9 | 100 | 145 |
| 5 | 131.850 | 37.4 | 8.7 | 4.1 | 28.0 | 22.2 | 43.5 | 21.3 | 100 | 176 |
| 6 | 323.910 | 24.9 | 13.9 | 5.5 | 27.7 | 16.6 | 46.0 | 29.4 | 100 | 359 |

Remark: Margin (dB) = Limit – Result

Result = Reading Quasi-Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

| Test Mode 1 (Charging) | | | |
|------------------------|----------------------|----------------------|---------------------|
| Frequency range | : 30 MHz ~ 1 000 MHz | Applied Standards | : ICES-003 Issue 7 |
| Resolution bandwidth | : 120 kHz | Test Date | : February 16, 2022 |
| Detector Mode | : Quasi-Peak | Measurement distance | : 3 m |



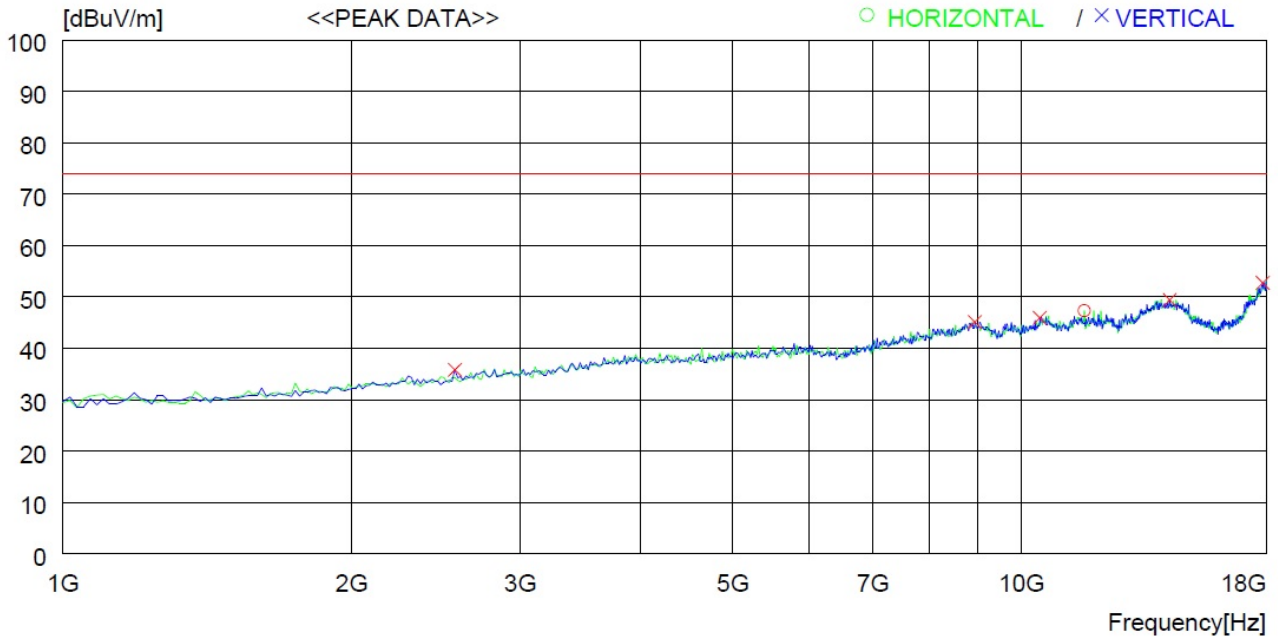
| No. | FREQ [MHz] | READING QP [dBuV] | ANT FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|------------------------|------------|-------------------|-----------------|-----------|-----------|-----------------|----------------|-------------|--------------|-------------|
| ----- Horizontal ----- | | | | | | | | | | |
| 1 | 236.610 | 23.0 | 12.1 | 5.0 | 27.6 | 12.5 | 47.0 | 34.5 | 200 | 43 |
| ----- Vertical ----- | | | | | | | | | | |
| 2 | 61.040 | 33.2 | 13.0 | 2.6 | 28.3 | 20.5 | 40.0 | 19.5 | 100 | 359 |
| 3 | 100.810 | 36.6 | 11.9 | 3.7 | 28.2 | 24.0 | 43.5 | 19.5 | 100 | 359 |
| 4 | 122.150 | 36.5 | 9.3 | 3.9 | 28.1 | 21.6 | 43.5 | 21.9 | 100 | 145 |
| 5 | 131.850 | 37.4 | 8.7 | 4.1 | 28.0 | 22.2 | 43.5 | 21.3 | 100 | 176 |
| 6 | 323.910 | 24.9 | 13.9 | 5.5 | 27.7 | 16.6 | 47.0 | 30.4 | 100 | 359 |

Remark: Margin (dB) = Limit – Result

Result = Reading Quasi-Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

| Test Mode 1 (Charging) | |
|----------------------------------|-------------------------------|
| Frequency range : 1 GHz ~ 18 GHz | Test Date : February 16, 2022 |
| Resolution bandwidth : 1 MHz | Measurement distance : 3 m |
| Detector Mode : Peak | |



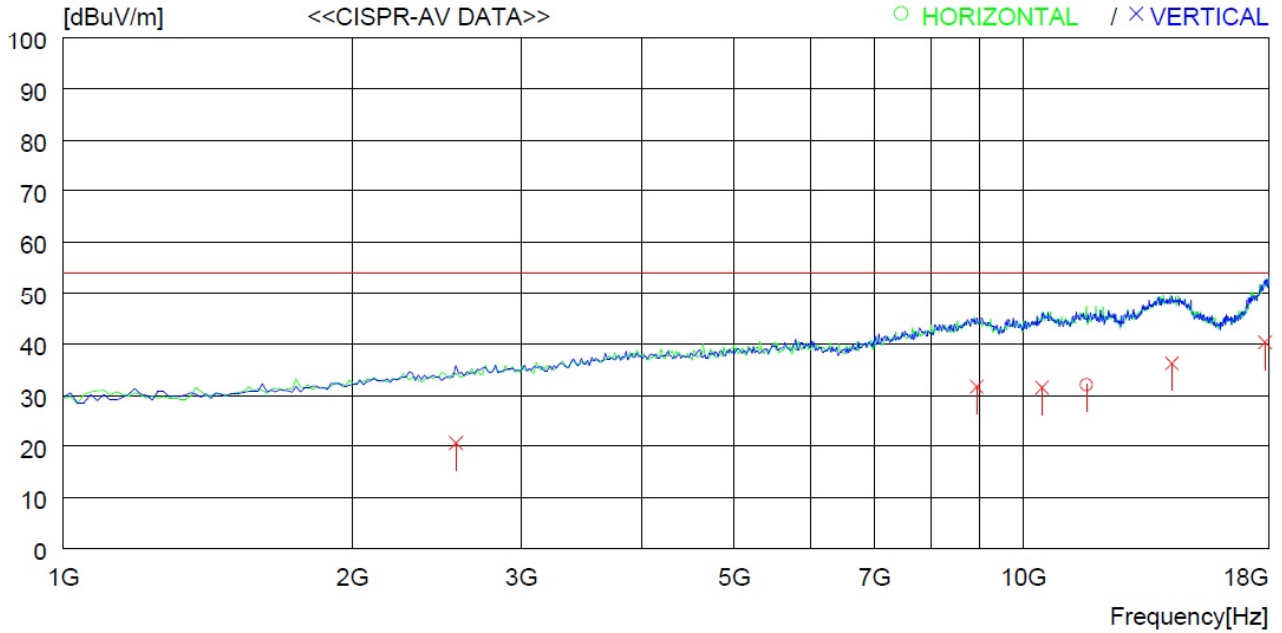
| No. | FREQ [MHz] | READING [dBuV] | ANT PEAK FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|------------------------|------------|----------------|----------------------|-----------|-----------|-----------------|----------------|-------------|--------------|-------------|
| ----- Horizontal ----- | | | | | | | | | | |
| 1 | 11625.000 | 43.8 | 38.7 | 7.5 | 42.7 | 47.3 | 74.0 | 26.7 | 100 | 353 |
| ----- Vertical ----- | | | | | | | | | | |
| 2 | 2564.000 | 46.8 | 28.3 | 3.5 | 42.8 | 35.8 | 74.0 | 38.2 | 100 | 286 |
| 3 | 8939.000 | 42.0 | 38.4 | 6.8 | 42.1 | 45.1 | 74.0 | 28.9 | 200 | 0 |
| 4 | 10452.000 | 43.5 | 37.8 | 7.3 | 42.7 | 45.9 | 74.0 | 28.1 | 100 | 0 |
| 5 | 14277.000 | 41.2 | 41.7 | 8.7 | 42.2 | 49.4 | 74.0 | 24.6 | 100 | 204 |
| 6 | 17847.000 | 39.8 | 46.4 | 9.8 | 43.3 | 52.7 | 74.0 | 21.3 | 100 | 319 |

Remark: Margin (dB) = Limit – Result

Result = Reading Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

| Test Mode 1 (Charging) | |
|----------------------------------|-------------------------------|
| Frequency range : 1 GHz ~ 18 GHz | Test Date : February 16, 2022 |
| Resolution bandwidth : 1 MHz | Measurement distance : 3 m |
| Detector Mode : CISPR-Average | |



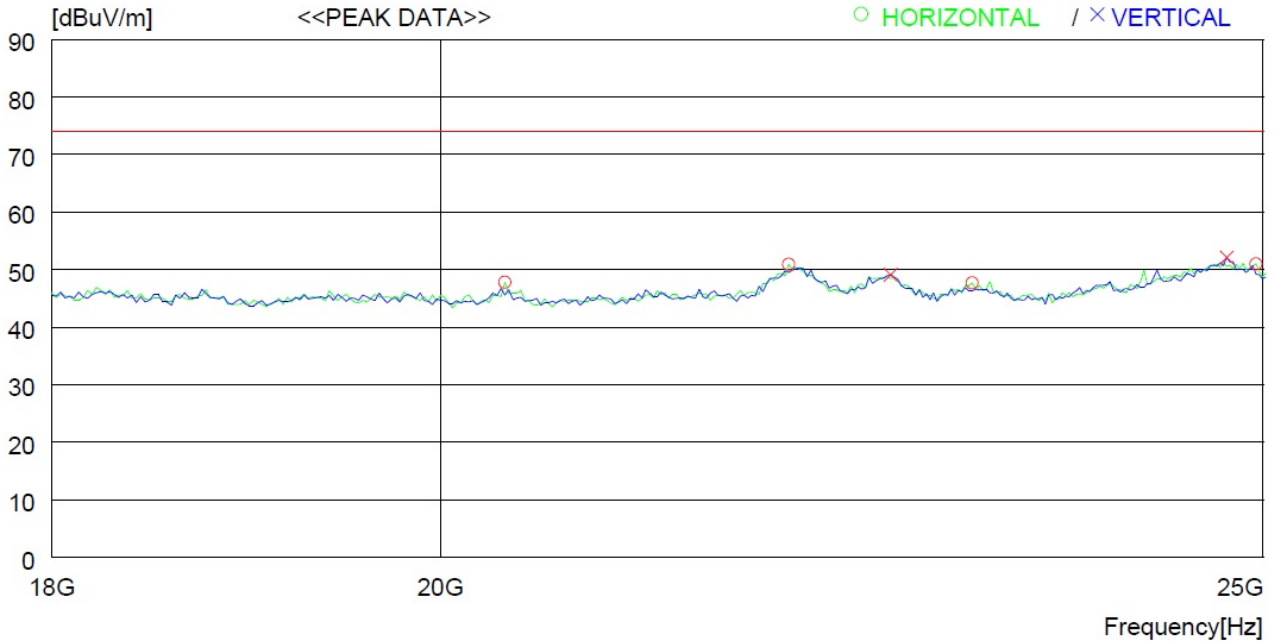
| No. | FREQ [MHz] | READING CAV [dBuV] | ANT FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|------------------------|---------------|--------------------------|-----------------------|--------------|--------------|--------------------|-------------------|----------------|-----------------|----------------|
| ----- Horizontal ----- | | | | | | | | | | |
| 1 | 11625.970 | 28.6 | 38.7 | 7.5 | 42.7 | 32.1 | 54.0 | 21.9 | 100 | 353 |
| ----- Vertical ----- | | | | | | | | | | |
| 2 | 2564.842 | 31.5 | 28.3 | 3.5 | 42.8 | 20.5 | 54.0 | 33.5 | 100 | 286 |
| 3 | 8939.714 | 28.6 | 38.4 | 6.8 | 42.1 | 31.7 | 54.0 | 22.3 | 200 | 0 |
| 4 | 10452.360 | 29.1 | 37.8 | 7.3 | 42.7 | 31.5 | 54.0 | 22.5 | 100 | 0 |
| 5 | 14277.290 | 28.0 | 41.7 | 8.7 | 42.2 | 36.2 | 54.0 | 17.8 | 100 | 204 |
| 6 | 17847.850 | 27.4 | 46.4 | 9.8 | 43.3 | 40.3 | 54.0 | 13.7 | 100 | 319 |

Remark: Margin (dB) = Limit – Result

Result = Reading CISPR-Average + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

| Test Mode 1 (Charging) | |
|-----------------------------------|-------------------------------|
| Frequency range : 18 GHz ~ 25 GHz | Test Date : February 16, 2022 |
| Resolution bandwidth : 1 MHz | Measurement distance : 3 m |
| Detector Mode : Peak | |



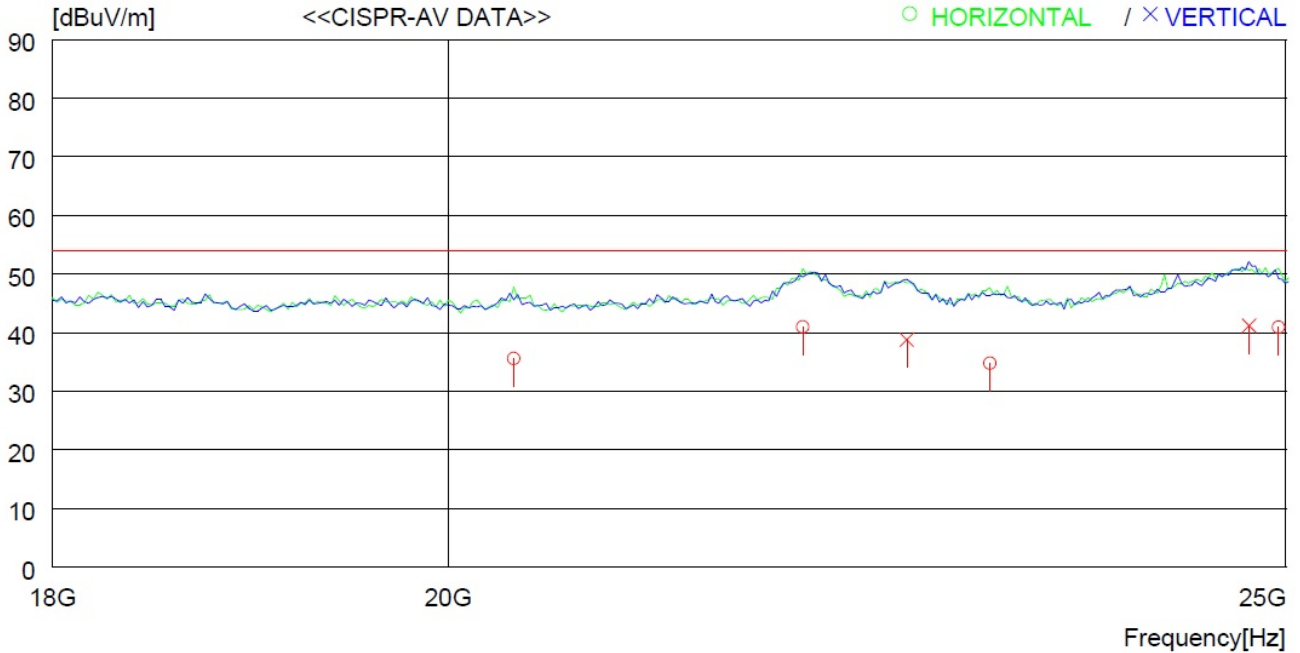
| No. | FREQ [MHz] | READING [dBuV] | ANT PEAK FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|------------------------|------------|----------------|----------------------|-----------|-----------|-----------------|----------------|-------------|--------------|-------------|
| ----- Horizontal ----- | | | | | | | | | | |
| 1 | 20354.000 | 39.4 | 40.1 | 10.5 | 42.2 | 47.8 | 74.0 | 26.2 | 100 | 0 |
| 2 | 21982.000 | 42.5 | 40.1 | 11.0 | 42.7 | 50.9 | 74.0 | 23.1 | 100 | 0 |
| 3 | 23104.000 | 39.4 | 40.0 | 11.3 | 43.0 | 47.7 | 74.0 | 26.3 | 200 | 0 |
| 4 | 24952.000 | 41.8 | 40.2 | 11.5 | 42.5 | 51.0 | 74.0 | 23 | 100 | 161 |
| ----- Vertical ----- | | | | | | | | | | |
| 5 | 22598.000 | 40.7 | 40.1 | 11.2 | 42.9 | 49.1 | 74.0 | 24.9 | 200 | 236 |
| 6 | 24754.000 | 43.0 | 40.2 | 11.5 | 42.6 | 52.1 | 74.0 | 21.9 | 100 | 354 |

Remark: Margin (dB) = Limit – Result

Result = Reading Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

| Test Mode 1 (Charging) | |
|-----------------------------------|-------------------------------|
| Frequency range : 18 GHz ~ 25 GHz | Test Date : February 16, 2022 |
| Resolution bandwidth : 1 MHz | Measurement distance : 3 m |
| Detector Mode : CISPR-Average | |



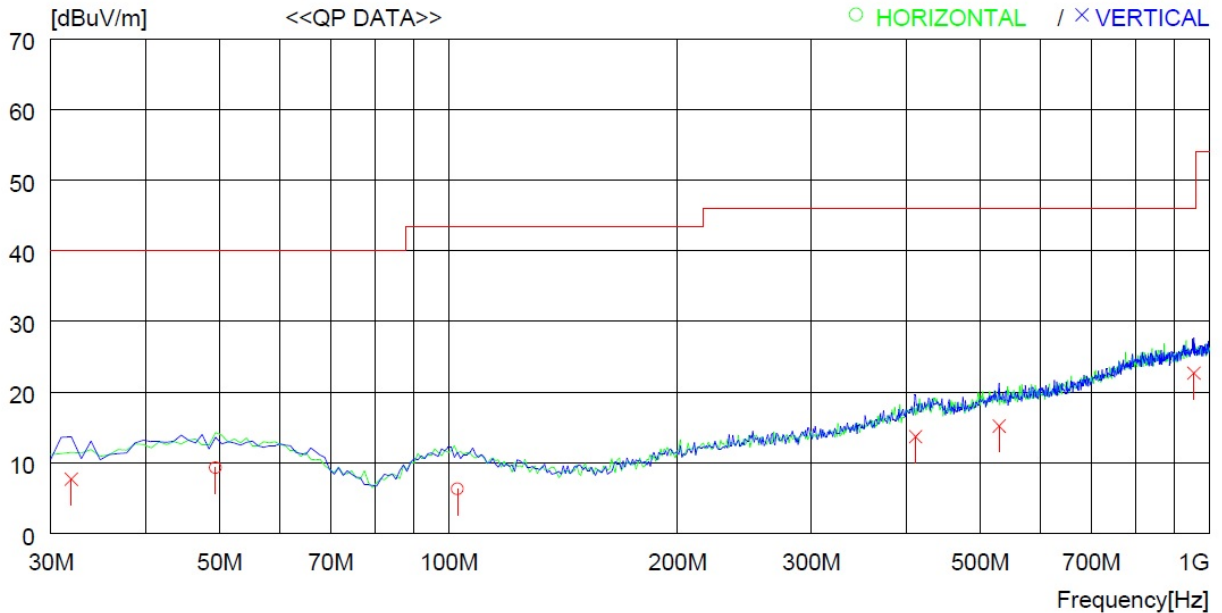
| No. | FREQ [MHz] | READING CAV [dBuV] | ANT FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|------------------------|------------|--------------------|-----------------|-----------|-----------|-----------------|----------------|-------------|--------------|-------------|
| ----- Horizontal ----- | | | | | | | | | | |
| 1 | 20354.450 | 27.2 | 40.1 | 10.5 | 42.2 | 35.6 | 54.0 | 18.4 | 100 | 0 |
| 2 | 21982.140 | 32.6 | 40.1 | 11.0 | 42.7 | 41.0 | 54.0 | 13.0 | 100 | 0 |
| 3 | 23104.590 | 26.5 | 40.0 | 11.3 | 43.0 | 34.8 | 54.0 | 19.2 | 200 | 0 |
| 4 | 24952.500 | 31.7 | 40.2 | 11.5 | 42.5 | 40.9 | 54.0 | 13.1 | 100 | 161 |
| ----- Vertical ----- | | | | | | | | | | |
| 5 | 22598.430 | 30.4 | 40.1 | 11.2 | 42.9 | 38.8 | 54.0 | 15.2 | 200 | 236 |
| 6 | 24754.750 | 32.1 | 40.2 | 11.5 | 42.6 | 41.2 | 54.0 | 12.8 | 100 | 354 |

Remark: Margin (dB) = Limit – Result

Result = Reading CISPR-Average + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

| Test Mode 2 (AUX + BT) | | | |
|------------------------|----------------------|----------------------|-------------------------|
| Frequency range | : 30 MHz ~ 1 000 MHz | Applied Standards | : FCC Part 15 Subpart B |
| Resolution bandwidth | : 120 kHz | Test Date | : February 16, 2022 |
| Detector Mode | : Quasi-Peak | Measurement distance | : 3 m |



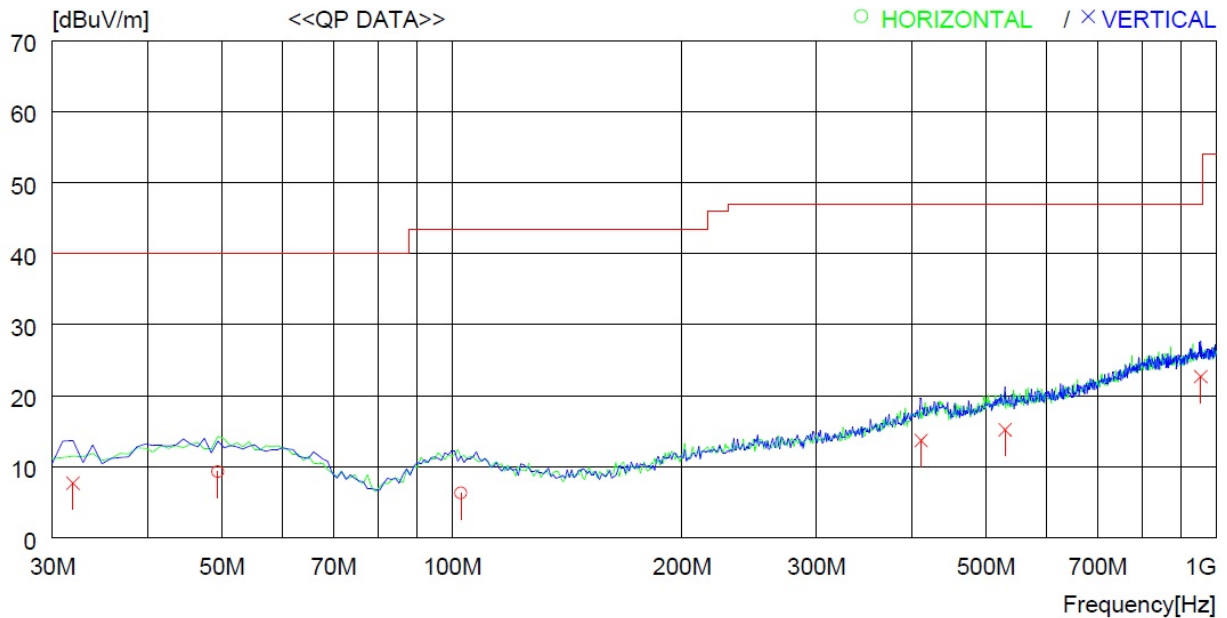
| No. | FREQ [MHz] | READING QP [dBuV] | ANT FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|------------------------|---------------|-------------------------|-----------------------|--------------|--------------|--------------------|-------------------|----------------|-----------------|----------------|
| ----- Horizontal ----- | | | | | | | | | | |
| 1 | 49.400 | 21.3 | 14.0 | 2.3 | 28.3 | 9.3 | 40.0 | 30.7 | 200 | 359 |
| 2 | 102.750 | 18.9 | 11.7 | 3.8 | 28.1 | 6.3 | 43.5 | 37.2 | 200 | 359 |
| ----- Vertical ----- | | | | | | | | | | |
| 3 | 31.940 | 22.5 | 11.8 | 1.7 | 28.3 | 7.7 | 40.0 | 32.3 | 100 | 325 |
| 4 | 411.210 | 19.1 | 15.9 | 7.0 | 28.3 | 13.7 | 46.0 | 32.3 | 100 | 0 |
| 5 | 529.550 | 18.0 | 17.8 | 8.1 | 28.7 | 15.2 | 46.0 | 30.8 | 100 | 0 |
| 6 | 954.397 | 17.7 | 22.4 | 10.2 | 27.6 | 22.7 | 46.0 | 23.3 | 300 | 359 |

Remark: Margin (dB) = Limit – Result

Result = Reading Quasi-Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

| Test Mode 2 (AUX + BT) | | | |
|------------------------|----------------------|----------------------|---------------------|
| Frequency range | : 30 MHz ~ 1 000 MHz | Applied Standards | : ICES-003 Issue 7 |
| Resolution bandwidth | : 120 kHz | Test Date | : February 16, 2022 |
| Detector Mode | : Quasi-Peak | Measurement distance | : 3 m |



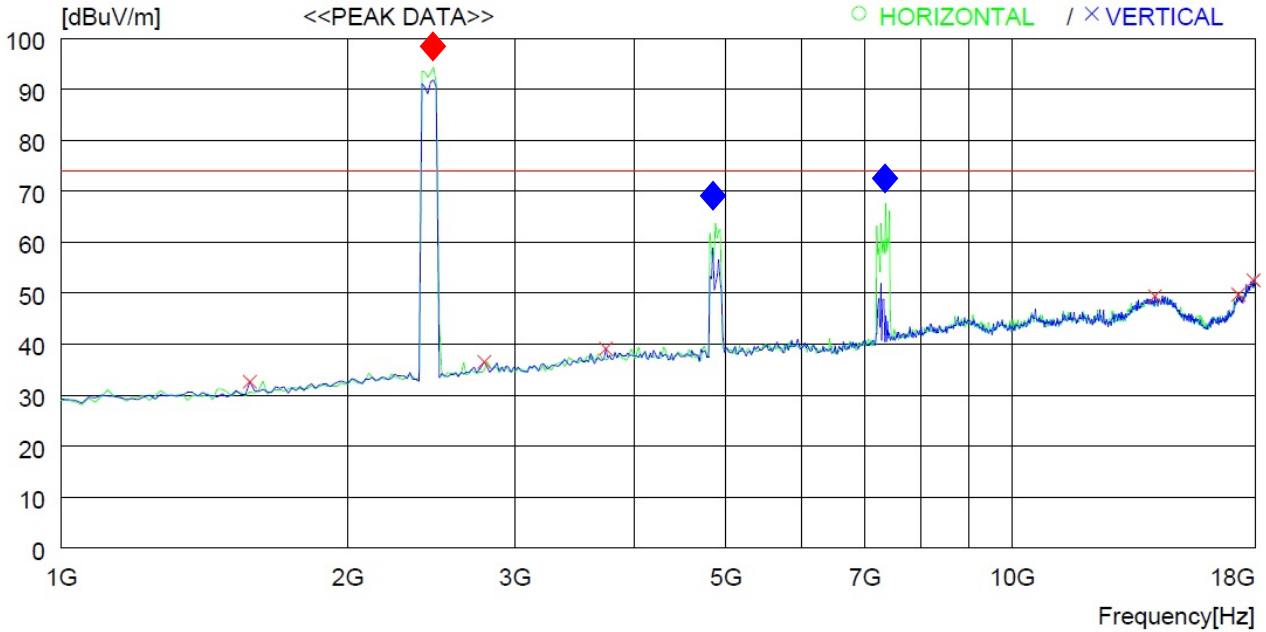
| No. | FREQ [MHz] | READING QP [dBuV] | ANT FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|------------------------|---------------|-------------------------|-----------------------|--------------|--------------|--------------------|-------------------|----------------|-----------------|----------------|
| ----- Horizontal ----- | | | | | | | | | | |
| 1 | 49.400 | 21.3 | 14.0 | 2.3 | 28.3 | 9.3 | 40.0 | 30.7 | 200 | 359 |
| 2 | 102.750 | 18.9 | 11.7 | 3.8 | 28.1 | 6.3 | 43.5 | 37.2 | 200 | 359 |
| ----- Vertical ----- | | | | | | | | | | |
| 3 | 31.940 | 22.5 | 11.8 | 1.7 | 28.3 | 7.7 | 40.0 | 32.3 | 100 | 325 |
| 4 | 411.210 | 19.1 | 15.9 | 7.0 | 28.3 | 13.7 | 47.0 | 33.3 | 100 | 0 |
| 5 | 529.550 | 18.0 | 17.8 | 8.1 | 28.7 | 15.2 | 47.0 | 31.8 | 100 | 0 |
| 6 | 954.397 | 17.7 | 22.4 | 10.2 | 27.6 | 22.7 | 47.0 | 24.3 | 300 | 359 |

Remark: Margin (dB) = Limit – Result

Result = Reading Quasi-Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

| Test Mode 2 (AUX + BT) | |
|----------------------------------|-------------------------------|
| Frequency range : 1 GHz ~ 18 GHz | Test Date : February 16, 2022 |
| Resolution bandwidth : 1 MHz | Measurement distance : 3 m |
| Detector Mode : Peak | |



| No. | FREQ [MHz] | READING [dBuV] | ANT PEAK FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|----------------------|------------|----------------|----------------------|-----------|-----------|-----------------|----------------|-------------|--------------|-------------|
| ----- Vertical ----- | | | | | | | | | | |
| 1 | 1578.000 | 46.5 | 25.3 | 2.8 | 42.0 | 32.6 | 74.0 | 41.4 | 100 | 12 |
| 2 | 2785.000 | 46.7 | 29.0 | 3.8 | 43.0 | 36.5 | 74.0 | 37.5 | 100 | 153 |
| 3 | 3737.000 | 46.7 | 31.6 | 4.3 | 43.5 | 39.1 | 74.0 | 34.9 | 100 | 145 |
| 4 | 14124.000 | 41.3 | 41.6 | 8.7 | 42.2 | 49.4 | 74.0 | 24.6 | 100 | 359 |
| 5 | 17286.000 | 41.0 | 42.7 | 9.5 | 43.5 | 49.7 | 74.0 | 24.3 | 100 | 340 |
| 6 | 17932.000 | 38.9 | 47.0 | 9.9 | 43.3 | 52.5 | 74.0 | 21.5 | 100 | 359 |

Remark: Margin (dB) = Limit – Result

$$\text{Result} = \text{Reading Peak} + \text{Antenna Factor} + \text{Loss} - \text{Gain}$$

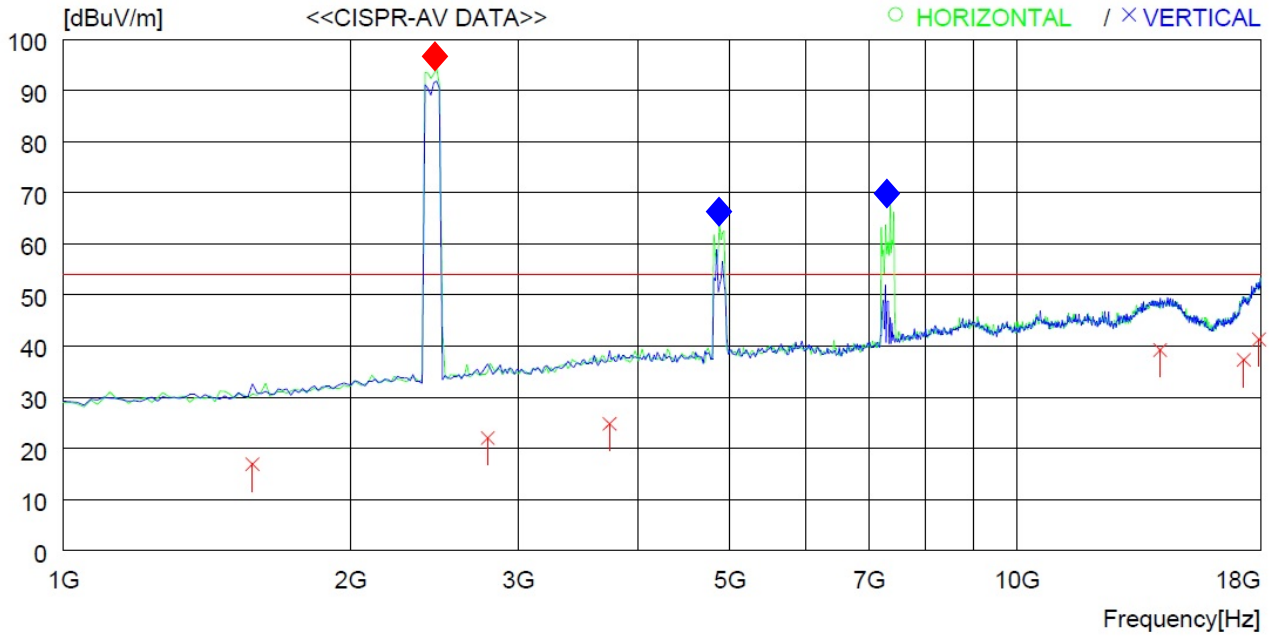
Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

* Radiated emissions (Tx/Rx frequencies) from the transceiver shall be ignored.

Bluetooth: 2 402 ~ 2 480 MHz

* ◆ - Exclusion band Carrier Frequency, ◆ - Exclusion band Harmonic Frequency

| Test Mode 2 (AUX + BT) | |
|----------------------------------|-------------------------------|
| Frequency range : 1 GHz ~ 18 GHz | Test Date : February 16, 2022 |
| Resolution bandwidth : 1 MHz | Measurement distance : 3 m |
| Detector Mode : CISPR-Average | |



| No. | FREQ [MHz] | READING CAV [dBuV] | ANT FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|----------------------|------------|--------------------|-----------------|-----------|-----------|-----------------|----------------|-------------|--------------|-------------|
| ----- Vertical ----- | | | | | | | | | | |
| 1 | 1578.109 | 30.8 | 25.3 | 2.8 | 42.0 | 16.9 | 54.0 | 37.1 | 100 | 12 |
| 2 | 2785.514 | 32.2 | 29.0 | 3.8 | 43.0 | 22.0 | 54.0 | 32.0 | 100 | 153 |
| 3 | 3737.725 | 32.4 | 31.6 | 4.3 | 43.5 | 24.8 | 54.0 | 29.2 | 100 | 145 |
| 4 | 14124.880 | 31.1 | 41.6 | 8.7 | 42.2 | 39.2 | 54.0 | 14.8 | 100 | 359 |
| 5 | 17286.500 | 28.6 | 42.7 | 9.5 | 43.5 | 37.3 | 54.0 | 16.7 | 100 | 340 |
| 6 | 17932.060 | 27.7 | 47.0 | 9.9 | 43.3 | 41.3 | 54.0 | 12.7 | 100 | 359 |

Remark: Margin (dB) = Limit – Result

Result = Reading CISPR-Average + Antenna Factor + Loss – Gain

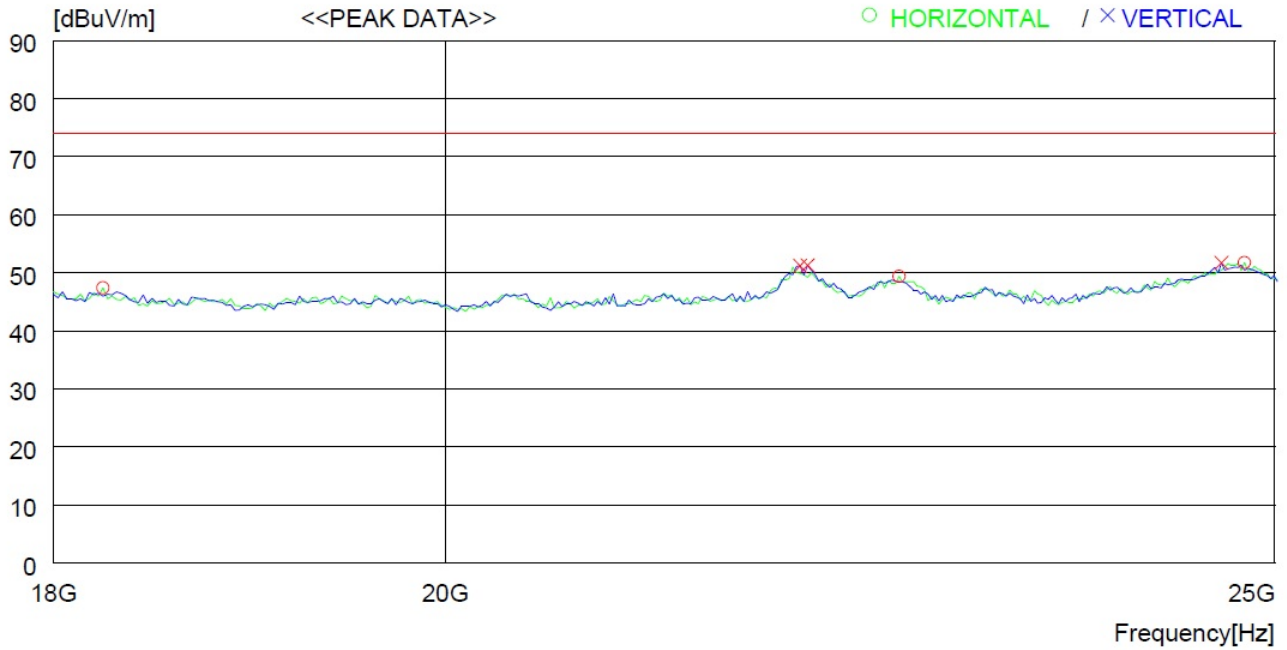
Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

* Radiated emissions (Tx/Rx frequencies) from the transceiver shall be ignored.

Bluetooth: 2 402 ~ 2 480 MHz

* ◆ - Exclusion band Carrier Frequency, ◆ - Exclusion band Harmonic Frequency

| Test Mode 2 (AUX + BT) | |
|-----------------------------------|-------------------------------|
| Frequency range : 18 GHz ~ 25 GHz | Test Date : February 16, 2022 |
| Resolution bandwidth : 1 MHz | Measurement distance : 3 m |
| Detector Mode : CISPR-Average | |



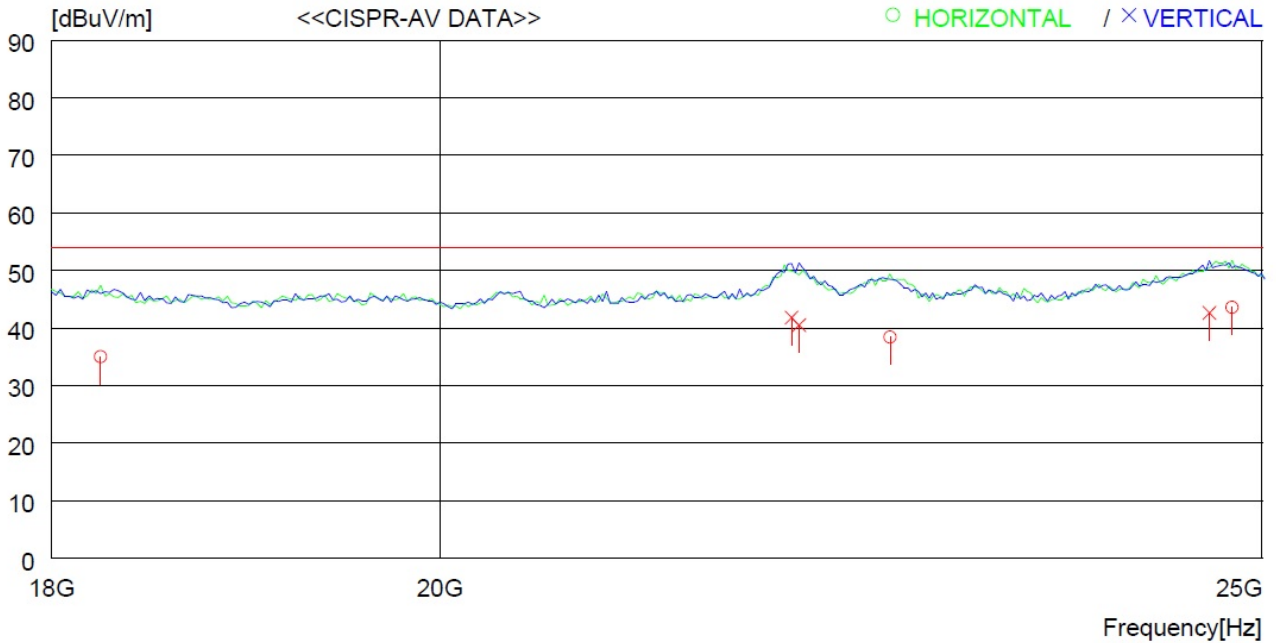
| No. | FREQ [MHz] | READING [dBuV] | ANT PEAK FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|------------------------|------------|----------------|----------------------|-----------|-----------|-----------------|----------------|-------------|--------------|-------------|
| ----- Horizontal ----- | | | | | | | | | | |
| 1 | 18242.000 | 37.7 | 40.1 | 9.7 | 40.1 | 47.4 | 74.0 | 26.6 | 100 | 284 |
| 2 | 22598.000 | 41.0 | 40.1 | 11.2 | 42.9 | 49.4 | 74.0 | 24.6 | 100 | 238 |
| 3 | 24798.000 | 42.7 | 40.2 | 11.5 | 42.6 | 51.8 | 74.0 | 22.2 | 100 | 0 |
| ----- Vertical ----- | | | | | | | | | | |
| 4 | 22004.000 | 42.8 | 40.1 | 11.0 | 42.7 | 51.2 | 74.0 | 22.8 | 100 | 41 |
| 5 | 22048.000 | 43.0 | 40.1 | 11.0 | 42.8 | 51.3 | 74.0 | 22.7 | 100 | 167 |
| 6 | 24644.000 | 42.8 | 40.1 | 11.5 | 42.7 | 51.7 | 74.0 | 22.3 | 100 | 359 |

Remark: Margin (dB) = Limit – Result

Result = Reading Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

| Test Mode 2 (AUX + BT) | |
|-----------------------------------|-------------------------------|
| Frequency range : 18 GHz ~ 25 GHz | Test Date : February 16, 2022 |
| Resolution bandwidth : 1 MHz | Measurement distance : 3 m |
| Detector Mode : CISPR-Average | |



| No. | FREQ [MHz] | READING CAV [dBuV] | ANT FACTOR [dB] | LOSS [dB] | GAIN [dB] | RESULT [dBuV/m] | LIMIT [dBuV/m] | MARGIN [dB] | ANTENNA [cm] | TABLE [DEG] |
|------------------------|---------------|--------------------------|-----------------------|--------------|--------------|--------------------|-------------------|----------------|-----------------|----------------|
| ----- Horizontal ----- | | | | | | | | | | |
| 1 | 18242.740 | 25.3 | 40.1 | 9.7 | 40.1 | 35.0 | 54.0 | 19.0 | 100 | 284 |
| 2 | 22598.450 | 30.0 | 40.1 | 11.2 | 42.9 | 38.4 | 54.0 | 15.6 | 100 | 238 |
| 3 | 24798.070 | 34.5 | 40.2 | 11.5 | 42.6 | 43.6 | 54.0 | 10.4 | 100 | 0 |
| ----- Vertical ----- | | | | | | | | | | |
| 4 | 22004.220 | 33.4 | 40.1 | 11.0 | 42.7 | 41.8 | 54.0 | 12.2 | 100 | 41 |
| 5 | 22048.640 | 32.2 | 40.1 | 11.0 | 42.8 | 40.5 | 54.0 | 13.5 | 100 | 167 |
| 6 | 24644.230 | 33.7 | 40.1 | 11.5 | 42.7 | 42.6 | 54.0 | 11.4 | 100 | 359 |

Remark: Margin (dB) = Limit – Result

Result = Reading CISPR-Average + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

6. SAMPLE CALCULATIONS

$$\text{dB}\mu\text{V} = 20 \text{ Log}_{10}(\mu\text{V})$$

$$\text{Margin} = \text{Limit} - \text{Result}$$

-. Example 1: 0.41200 MHz

| | |
|-------------------|-------------------------------------|
| Class B Limit | = 47.6 dB μ V (CISPR-Average) |
| Reading | = 23.3 dB μ |
| Correction Factor | = Cable Loss + Pulse Limiter |
| | = 10.1 dB |
| Total | = 33.4 dB μ V |
| Margin | = 47.6 dB μ V – 33.4 dB μ V |
| | = 14.2 dB |

-. Example 2: 24798.070 MHz

| | |
|-------------------|---|
| Class B Limit | = 54.0 dB μ V/m (CISPR-Average) |
| Reading | = 34.5 dB μ V |
| Correction Factor | = Antenna Factor (40.2 dB/m) + Cable Loss (11.5 dB) - Amp. Gain (42.6 dB) |
| | = 9.1 dB |
| Total | = 43.6 dB μ V/m |
| Margin | = 54.0 dB μ V/m – 43.6 dB μ V/m |
| | = 10.4 dB |

APPENDIX A
[TEST SET UP PHOTOGRAPHS]

Conducted Emission Test Set Up



Test Mode 1 (Charging)

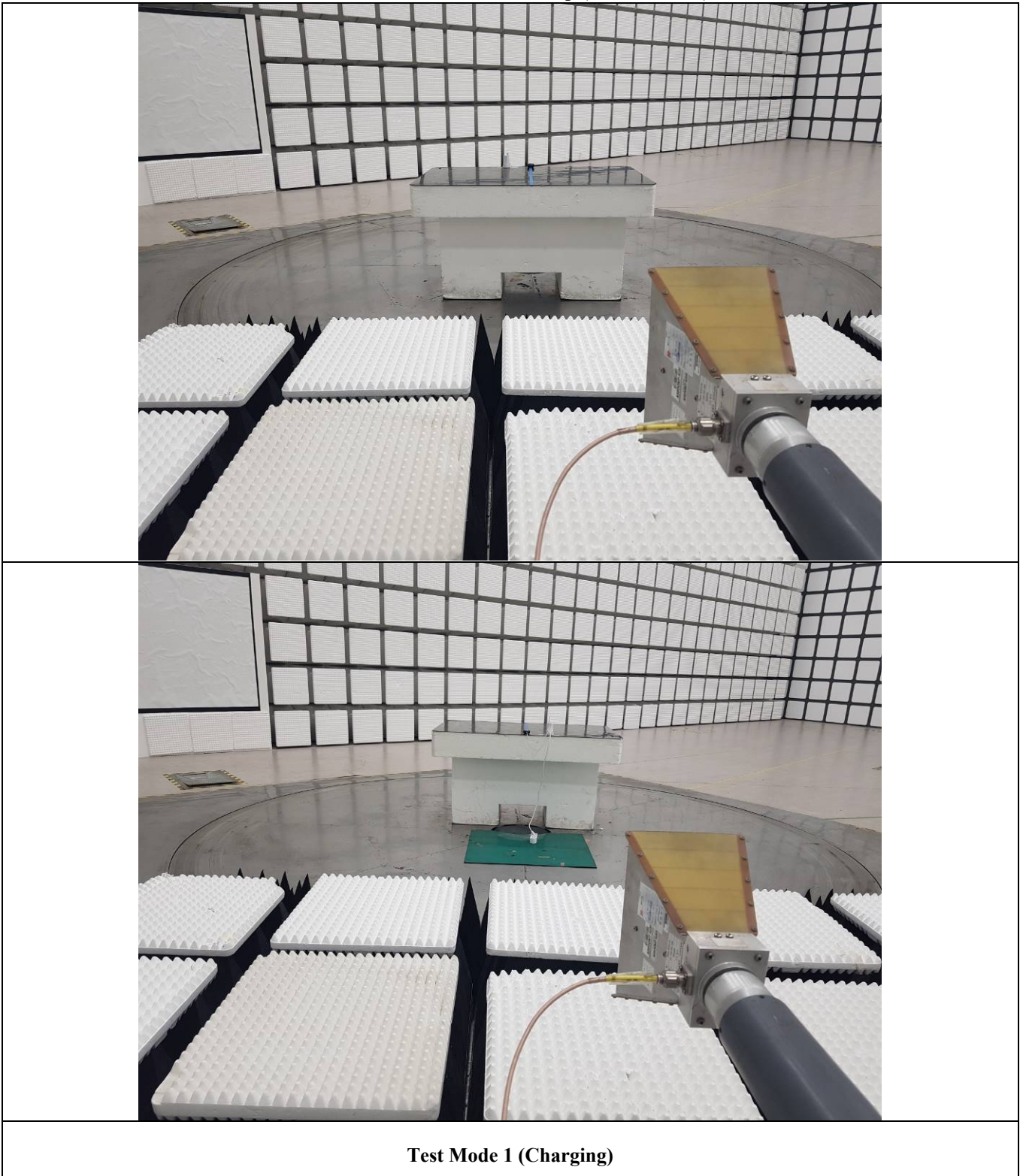
Radiated Emission Test Set Up (Below 1 GHz)



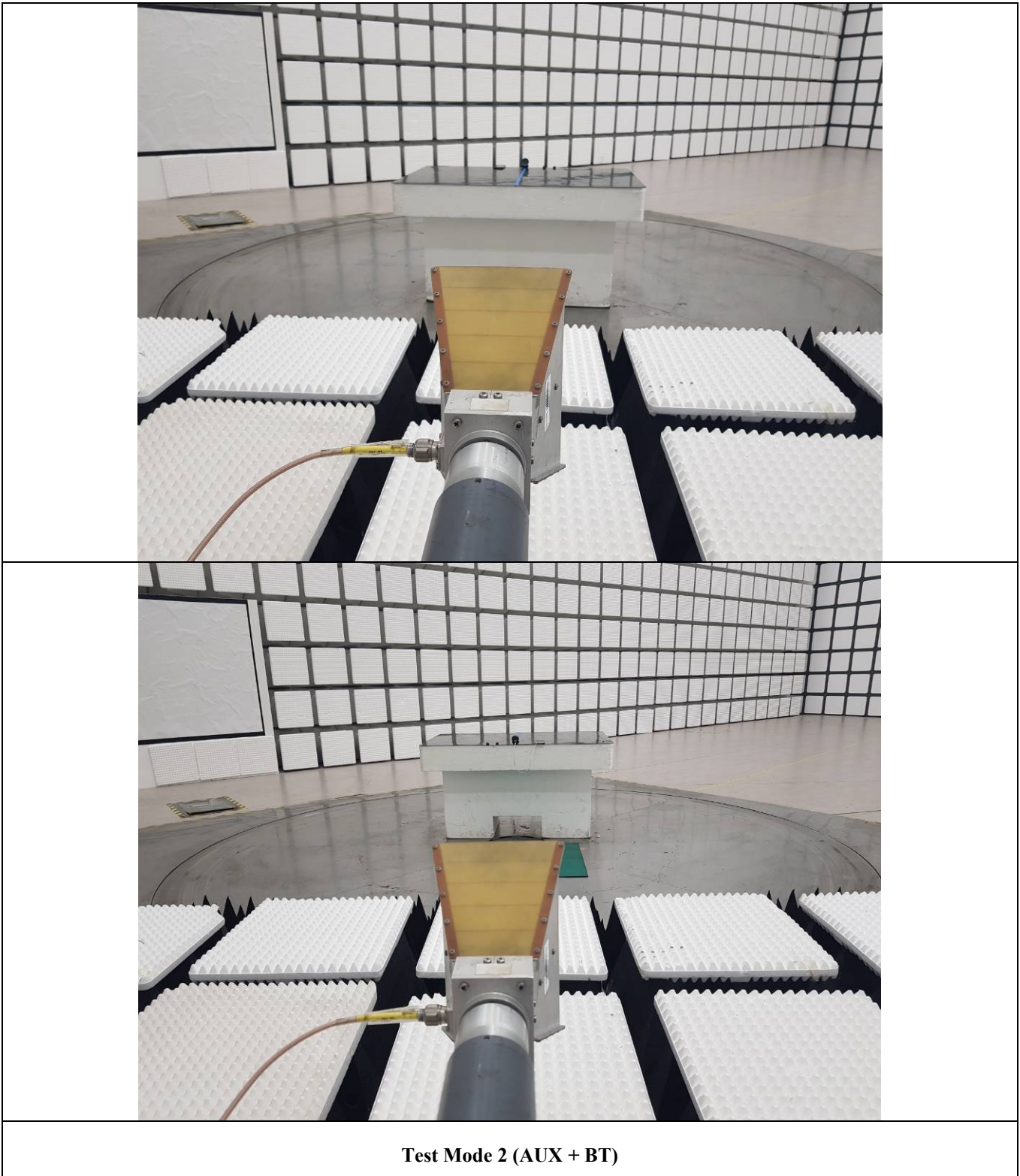
Test Mode 1 (Charging)



Radiated Emission Test Set Up (Above 1 GHz)



Test Mode 1 (Charging)



Test Mode 2 (AUX + BT)